

# CNT TRANSPORTATION and LOGISTICS PLAN 2018



2.600+  
projects



**CNT**

National  
Confederation  
of Transport

CNT  
**TRANSPORTATION**  
**and LOGISTICS**  
PLAN 2018



**CNT**  
**TRANSPORTATION**  
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**PLAN 2018**



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## FOREWORD

Understanding transportation as fundamental for a country's development is a basic premise of great nations. Integration at the national level for the movement of people and goods via systems of transportation and well-planned, structured logistics ensure global competitiveness.

Unfortunately, weaknesses in transportation infrastructure in Brazil are a historic problem. We are faced with a lag of several years in our systems when compared to the most developed countries. This situation inhibits our ability to transport the riches produced in our country, reduces the productivity of our companies, and hampers job creation and the distribution of wealth across our populace.

In the pages that follow, the National Confederation of Transport, aware of its responsibility as the sector's representative entity, presents the main projects needed to solve the problems faced today and encourage the necessary advancements in transportation infrastructure in the country.

In its sixth edition, the CNT Transportation and Logistics Plan presents a thorough analysis of the country's needs for the implementation of an integrated cargo and passenger transportation system for all modes of transport.

This year, CNT has taken the innovative approach of also offering the Plan's content in digital format. This new tool allows readers to consult each project in detail, in addition to providing an interactive map with the necessary transportation interventions in each region.

We believe that successful planning in our sector is carried out through the continuous review of projects and the prioritization of investments, which serve as the basis of a transportation policy aimed at development. As such, by identifying 2,663 fundamental projects in the country, CNT contributes substantially to the development of a new logistical landscape that is broader, more modern, more integrated, and more efficient.

Clésio Andrade,  
President of CNT

01



# INTRODUCTION

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The transportation sector is transversal, impacting all other sectors of economic activity. For this reason, sustainable development of a country, whether economic, social or environmental, depends in large part on the existence of an efficient, integrated transportation system with a recognized standard of quality. As such, the government and other institutions responsible for management of this sector must perform continuous follow-up on the infrastructures that comprise it, being able to identify and foresee demands for cargo handling and passenger transportation and taking action given the identified scenario by adjusting or expanding the capacity of existing assets.

The National Confederation of Transport (CNT), in its role as the representative body of the transportation sector in Brazil, seeks to encourage the development of an efficient, integrated system that considers the various modes of transport: air, waterway, rail and road. Throughout its history, one of the activities of the Confederation has been the preparation and publication of research and plans through which knowledge is disseminated about the sector and the alternative proposals for improvement of its performance. The CNT Transportation and Logistics Plan 2018 fits into this scope of activities by identifying a set of pertinent interventions and the investment necessary for the development of transportation infrastructure in the country.

These investments are generally substantial and long-term in nature. For this reason, it's important that the selection of priority interventions be made stringently and according to the criteria that favor the projects with the most wide-reaching impact on society. From a multimodal perspective and considering the country's existing infrastructure and bottlenecks, this plan proposes recommendations for the adjustment and expansion of Brazil's transportation system.

The projects presented are divided according to their type: **National Integration Projects** are those that encompass the major product flow and passenger movement routes connecting the five regions of Brazil and its neighboring countries; **Urban Projects**, in turn, are those that are of particular importance in urban or metropolitan contexts and that mainly include proposals for passenger transport.

In this sixth edition of the CNT Transportation and Logistics Plan, the projects proposed in previous publications were revised and updated, and new projects were also included. The methodology used, however, was the same as previous editions. When outlining proposals, an evaluation of the description, relevance (justification), proposing institutions and progress of each project was performed. As a result, all projects presented in this report are accompanied by the following data: type of infrastructure, intervention category, project identification number (in the CNT database), location, title and scale (in km, units or volume).

This report is organized into eight chapters, with the first being this introduction. In the second chapter, the proposal of the CNT Transportation and Logistics Plan is presented. The third

chapter provides a general overview of each mode of transport in Brazil. The fourth chapter details the methodology used in the Plan. The fifth and sixth chapters present the details of the National Integration Projects by Structural Corridor and the Urban Projects by Metropolitan Region or Integrated Development Region (IDR), respectively. The seventh chapter presents the projects again, but this time divided by Region. Finally, the eighth chapter provides final remarks about this report.



02

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An aerial photograph of a long, straight road or bridge stretching from the bottom left towards the top center of the frame. The road is flanked by water on both sides, and the water's surface is covered in small, shimmering reflections of light. The sky is a clear, bright blue. The overall composition is clean and minimalist, emphasizing the perspective of the road.

# **CNT TRANSPORTATION AND LOGISTICS PLAN**

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Production chains, moved by the demand for goods, encompass the acquisition of **raw material, production/processing, distribution/marketing** and the **consumption** of products. Input and product flows in these chains are defined, among other things, by criteria of greater efficiency in the use of available resources, with some of the most relevant aspects being distance and time.

In this sense, logistics is defined as the process of planning, implementation and control of input and product flows in production chains so that goods can be transported from their origin to their destination in a timely manner while meeting the needs of those who demand them (see Figure 1). This definition includes flows originating from and/or destined for foreign markets (imports and exports), as well as so-called reverse logistics – collection and return of solid waste for reuse in the same production cycle, other production cycles or other environmentally sound disposal<sup>1</sup>.

Decisions regarding the location of the various elements that make up supply chains - such as crops, warehouses, factories and distribution centers – are interrelated and influenced by the location of consumer markets and the labor force. The positioning of these elements guides the allocation and scaling of transportation infrastructure and services. In turn, the supply of transportation (infrastructure and services) also impacts the allocation of these elements, attracting them, as a function of convenience, to their proximity. As such, this process represents a continuous cycle of mutual influence.

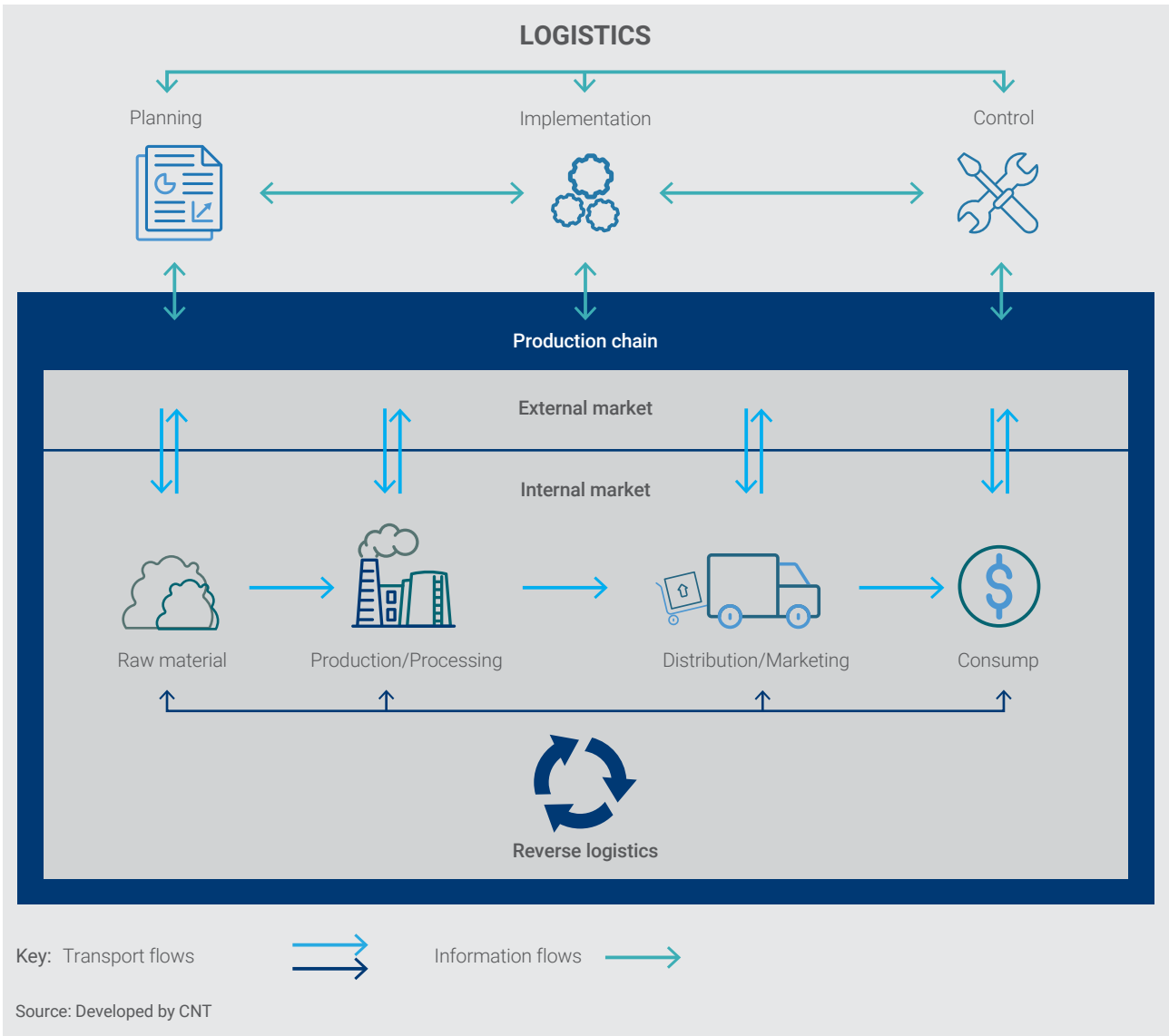
Other factors, such as the added value and perishability of goods, the diversity of modes of transportation available and competition with other markets also affect these decisions. Therefore, it is possible to to achieve gains in scale, scope and location through coordinated efforts.

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<sup>1</sup> In accordance with Law No. 12,305 of August 2, 2010, which establishes the National Policy on Solid Waste.



Figure 1- The logistics production chain



In logistics, the largest share of total costs for companies lies in transportation costs. In Brazil, it is estimated that in 2016, transportation costs represented 55.0% of total logistics costs<sup>2</sup>. On the other hand, these total costs have a significant impact on domestic economies. In our country, total logistics costs in 2016 represented 12.3% of GDP<sup>3</sup>. By comparison, during the same period in the United States, total logistics costs represented 7.8% of GDP. Among other things, the performance of logistics operations is also related to the aforementioned costs, the efficiency of management and to the quality of infrastructure for routes, terminals and vehicles.

<sup>2</sup> The other costs considered are related to inventory, storage and administrative costs.

<sup>3</sup> ILOS, 2017.

The transportation of people, in contrast to the transportation of goods, is governed by more specific, individualized demands. Passengers have a wide range of expectations and needs in relation to the supply of transportation available. In the same travel chain, the overall quality perceived by a consumer can be influenced by the service provided by different operators across different modes of transportation and terminals. In interstate or inter-city passenger transportation, the decision of when to travel and the mode of transport used may vary, for example, depending on the purpose of travel – business, pleasure or otherwise. The mode of transport chosen also impacts the travel experience itself, such as the restrictions on its use, for example.

At the urban and metropolitan level, the desire to travel is aimed at a wide array of uses and activities, ranging from commuting from a place of residence, to work, school, leisure and shopping, among others. Such travel occurs in scattered locations and times around the country, although it is concentrated in certain corridors and at certain times. Decisions related to location – choice of housing and shopping, for example – to the way the travel is carried out and to the mode of transport are impacted by issues such as neighborhood characteristics, comfort, perceived safety and the opportunity to travel, in addition to the transportation's cost.

The efficiency of transportation infrastructure is determined by its existence and availability in the places and conditions under which it is demanded, as well as its adjustment for an intended purpose. When these conditions are not met, the resulting inefficiencies have negative impacts on the entire transportation chain, whether for operators, the population or the environment. Such impacts – which contribute to what is known as the Brazil Cost<sup>4</sup> – include but are not limited to increased lead times, shipping costs, travel time, number of losses, risk of cargo damage, final price of product to be traded and pollutant emissions index.

Inadequate infrastructure in Brazil is currently regarded as one of the most problematic factors for doing business, inhibiting the country's global competitiveness in ways similar to factors like tariff issues and bureaucratic inefficiency. In a study conducted by the World Economic Forum<sup>5</sup> of 137 countries, the quality of transportation infrastructure in Brazil is ranked at number 65<sup>6</sup>, with the quality of roads in 103th place, rail infrastructure in 88th place, port infrastructure in 106th place and air transportation infrastructure in 95th place<sup>7</sup>. The country's competitiveness is below the BRICS average<sup>8</sup> and that of some Latin American countries, such as Mexico, Chile, and Ecuador (see Figure 2).

4 "Brazil Cost" is a comprehensive term commonly used to symbolize a series of economic, bureaucratic and structural obstacles that raise investment costs in the country and undermine the competitiveness of domestic production. For example, inadequate road infrastructure is a type of structural obstacle affecting the flow of agricultural products.

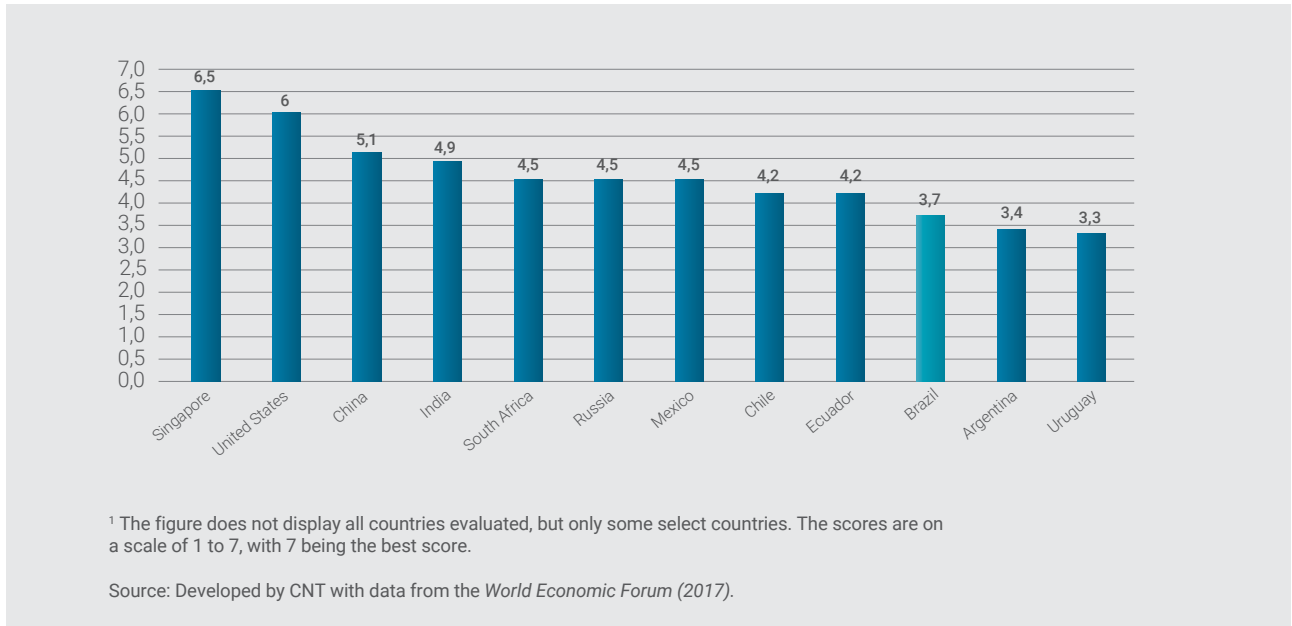
5 The Global Competitiveness Report 2017-2018

6 Corresponds to a score of 3.7 on a scale from 1 to 7, with 7 being the highest.

7 On a scale of 1 to 7 with 7 representing the best score, the quality of road, rail, port and air transportation infrastructures correspond to scores of 3.1, 2.0, 3.1 and 3.9, respectively.

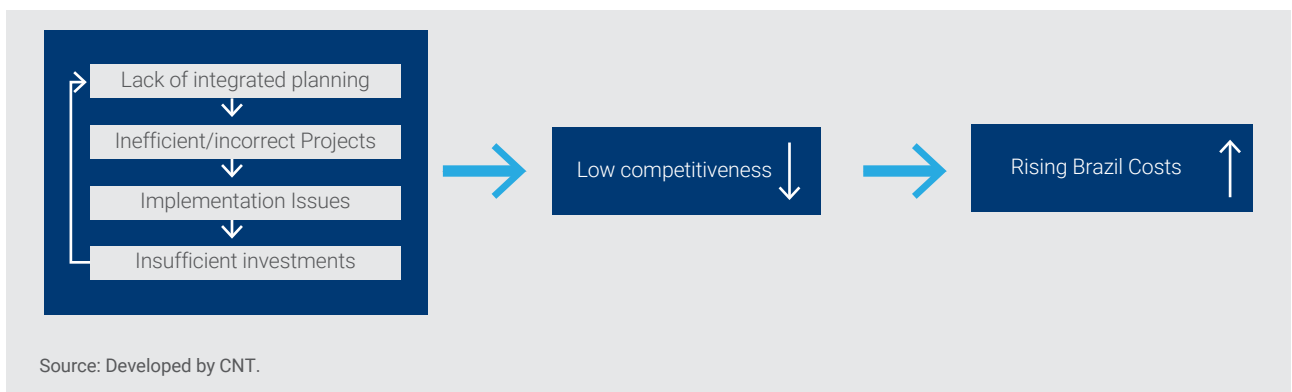
8 Group of countries with common economic characteristics composed of Brazil, Russia, India, China and South Africa.

Figure 2 - Competitiveness ranking for transportation infrastructure quality<sup>1</sup>



Low competitiveness is the result of a number of factors, such as deficiencies in integrated planning, project development, investment of resources in infrastructure, and the ability to carry out projects in accordance with their designs their schedules. The relationship between these factors contributing to an increase in the Brazil Cost can be seen in Figure 3. In general, Brazilian society feels the impact of these weaknesses, both in the foreign market with the lower generation of foreign exchange and problems from links to neighboring countries, as well as in the internal market in the form of difficulties in physical integration across different regions and the low level of service offered to users of transportation services.

Figure 3 - Factors that contribute to low competitiveness and rising Brazil Costs



Gaps in the planning and development of an integrated transportation system have led to imbalances in the transportation network, with unequal levels of efficiency in the operation of each mode, as well as inequalities across regions and barriers to the movement of people and goods. Despite the prevalence of some modes of transport over others in terms of volume of cargo and passengers transported, there are problems in all modes that require priority interventions.

In this regard, the significant increase in the demand for air transportation in recent years following the expansion of domestic aviation has added complexity to the existing challenges faced by the sector in the country. Despite gains in efficiency and increased operating capacity following the concession of some major Brazilian airports to private companies, there is still a notable lack of investment in both the construction and expansion of airport terminals and improvements to runways, especially those under public management.

Road transportation, despite its prevalence among the different modes, presents problems in its infrastructure arising from weaknesses in planning, implementation and maintenance. These weaknesses have been identified in the various editions of the CNT Roads Survey, which detail the extent of the problems of Brazilian roads, including pavement, signs and geometric design. The 2017 edition of the survey found that the quality of the overall state of roads evaluated decreased compared to the previous year, with the sections that received a rating of regular, bad or very poor representing 61.8% of the roads surveyed in 2017 compared to 58.2% in 2016<sup>9</sup>. Further, when comparing both the length of paved roads and the length of roads with more than one lane per direction to countries of similar size, it can be concluded that Brazil faces an immense competitive disadvantage, falling below the average values for the group of countries evaluated. As such, the large number of roads that are poorly maintained and in precarious condition combined with the aging road fleet increases the risk of accidents and vehicle breakdowns, and presents significant consequences such as a high number of victims and the emission of pollutants, among others.

Rail transport, despite its recognized propensity for large-scale transportation of goods (such as ores and grains) over long distances and applicable to the physical and economic characteristics of the country, is still in need of significant and continuous investments. Such investments, which are necessary for expanding the rail network and acquiring equipment and rolling stock, for example, are met with barriers in the form of poor planning, a lack of available resources and a lack of both prioritization and goal and target setting by the government.

Regulation of the sector and the reduced flexibility of the network are still factors that hinder its competitiveness, especially in regards to road transportation. Some of the characteristics of rail transport that need to be improved to optimize its use are the quality of available infrastructure, shipment costs and territorial coverage. In large urban areas, some of the

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<sup>9</sup> All paved federal roads and major paved state roads were surveyed.

problems faced – which fall under the responsibility of public authorities – include right of way intrusions and the existence of critical level crossings, which have negative impacts on the quality of the rail service, the speed at which its performed and safety.

Maritime transportation faces problems related to the pressure of urbanization on port infrastructures – generally located in consolidated urban areas – bearing significant impacts on its expandability and connection with other modes of transport. The flow of cargo via land access to and from ports is limited by bottlenecks related to infrastructure, regulation and bureaucratic procedures. In regards to port facilities, low terminal availability is observed, in addition to limited depth in some vessel berthing and access areas. Investments are needed in technology, equipment and in the qualification of professionals working in this sector. The fleet also needs to be renewed, with a greater supply of national ships. The weak regulatory framework – marked by a lack of legal clarity –, high taxation and complex bureaucracy involving a large number of actors impose costs that must be minimized.

Despite its high potential for use in our country, inland waterway navigation presents a notably reduced presence in relation to the total transportation network. Contributing to this situation are several institutional, regulatory, infrastructure and management barriers, such as lack of funding, low levels of investment, poor maintenance – dredging operations, for example – and conflicts with other activities, such as power generation and irrigation. Similarly, they are indicative of obstacles such as excessive bureaucracy, inadequate international standards – complied with by the industry – site specificities, lack of continuity along river courses (lack of sluices on hydroelectric dams) and a lack of access points, mooring berths, signaling and beacons.

In addition to issues at the national level, problems faced at the metropolitan level reflect the inconsistency of policies directed at public transportation and the strong incentive to use individual transportation. The increase in the number of private vehicles and the decrease in the number of public transportation users has caused overcrowding of roads and an increase in the number and extent of traffic jams in metropolitan areas. In this sense, both the time and cost of travel have increased.

With the consequent loss of passengers and revenue, the quality of public transportation tends to decline, leading to subsequent losses of passengers in a vicious cycle. From this situation, negative impacts are felt by the entire circulation chain of people and goods in urban environments as well as the quality of life in general, along with the increase of pollutant emissions and waste of resources.

As a solution to these problems, the adoption of policies and actions are recommended that improve the performance of the entire urban transportation system by prioritizing

public transportation. Some examples include the creation of preferential bus lanes<sup>10</sup> and the implementation of BRTs<sup>11</sup> – which seek to increase the operational speed of buses by optimizing their use – as well as the implementation of LRTs<sup>12</sup> which provide gains in the quality of service and the image of transportation systems for users. In addition, it is important that the physical, fare and time integrations in public transportation systems be made possible.

Considering the dynamics of the transportation chain and the specific characteristics of the situation of Brazil, CNT presents the CNT Transportation and Logistics Plan 2018, which seeks to contribute to improved performance of transportation systems in Brazil. Continuing with the Road, Rail, Sea and Inland Waterway Surveys<sup>13</sup> and sectoral studies<sup>14</sup> developed by CNT, the 2018 Plan, in light of the problems identified, proposes a set of priority projects defined from the systemic perspective of infrastructure integration through a multimodal approach that encompasses the entire country.

The proposals contained in this Plan correspond to a group of adjustment and construction interventions to transportation infrastructure, organized under two categories: **National Integration Projects**, distributed in Structural Corridors throughout the country; and **Urban Projects**, which consider the flow of cargo and passengers at the urban and metropolitan level. This approach will be detailed in Chapter 4. It should be noted that when determining **National Integration Projects**, priority was given to intermodality, connection with Latin American countries, access to export points of the Brazilian economy and the integration between production and internal consumption zones. For **Urban Projects**, the primary considerations were urban transportation and accessibility, the integration of both municipalities and modes of urban transportation and the level of service for users. The objective of these proposals is to improve the quality of infrastructure for transportation operators, to increase the quality of service provided to users and to promote the most efficient connections between the various points of origin and destination in the country in order to reduce transportation costs and mitigate their impacts.

It should be noted that the planning of infrastructure and services as a whole allows them to be more easily integrated, thereby truly forming a transportation network. This allows people

<sup>10</sup> Preferential bus lanes are formed by a demarcation of use of traffic lane(s), with priority for public transportation and coordinated signaling.

<sup>11</sup> BRT is the acronym for Bus Rapid Transit. These are mass transit systems for passengers that provide fast, comfortable, safe and efficient urban transportation through separated infrastructure, marked by priority fast lanes, quick and frequent operation and excellent marketing and user service.

<sup>12</sup> LRT is the acronym for Light Rail Transit. According to Vuchic (2004), Light Rail Transit consist of medium-capacity public passenger transportation systems (120 to 720 seats) that use vehicles with electric traction rails or even self-propelled traction (via diesel engine), as defined by Contran Resolution number 585 of March 23, 2016. In urban areas, LRTs can travel on separate tracks or share traffic with vehicles and people.

<sup>13</sup> 2017 CNT Road Survey, 2015 CNT Rail Survey, 2013 CNT Inland Waterway Navigation Survey, 2013 CNT Waterway-Cabotage Survey and 2012 CNT Maritime Transportation Survey.

<sup>14</sup> Such as "Passenger Air Transportation" (2015), "Logistics Barriers to the Flow of Soybeans and Corn" (2015) and "Urban Railway Passenger Transportation" (2016).

and goods adequate access to the places where their demands are met through the most efficient mode of transportation available, or through the combination of modes.

At national level, this edition of the Plan covers cargo and passenger transportation, whose infrastructures include the set of routes dedicated to the various modes of transport – roads, railways, waterways and airways – as well as passenger<sup>15</sup> and cargo<sup>16</sup> terminals. These infrastructures – both routes and terminals – are generally planned and funded by state and federal governments. Although often public in nature, they can be private or public. Public routes and terminals may also be leased via concessions to private entities. However, it should be noted that in general, the proposals outlined in this report **do not cover airports, roads and ports already granted to private entities**<sup>17</sup>. At the urban level, this Plan covers mainly passenger transportation, and its infrastructures includes the set of routes – urban roads, railways (subways and urban trains) and waterway systems (boats) – and local terminals.

It should be emphasized that the development and implementation of the proposed projects, as well as their sources of funding, are primarily the responsibility of public authorities. However, the participation of private entities in management and financing through concessions and Public-Private Partnerships (PPPs) is desirable. In this sense, there is strong interest from the private sector. Therefore, the conditions and guarantees to be given to investors should be more clearly defined.

It should be noted that this Plan does not cover the development of a transportation policy, but rather a set of recommendations for the transportation and logistics sector by defining interventions and the respective minimum investment estimates required. Therefore, it is meant to serve as a reference document for policymakers, public and private managers and other sector groups. It is also a contribution by transport operators for the evolution of Brazilian society, seeking improved sector planning and the development of the country.

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15 Structures for the boarding, disembarking and transfer of passengers, consisting of ports, airports, bus stations, rail stations and multimodal terminals

16 Structures for the processing and/or transfer of cargo between different vehicles of the same or different modes of transport.

17 There are some projects under this Plan that include infrastructure interventions granted to the private sector. These are cases where such interventions are not planned for in concession contracts, but fall under the responsibility of the granting authority.





03

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# OVERVIEW OF THE MODES OF TRANSPORT

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Preparation of proposals of the CNT Transportation and Logistics Plan 2018 took into account the current situation of the various modes of transport in Brazil, which include air, waterway, rail and road. For this task, an analysis of the particularities of each mode was conducted in relation to its operation, geographic coverage, supply and demand, institutional and regulatory framework, as well as the obstacles and primary challenges to its development.

In order to afford a broader understanding of the relevance of the proposals presented in this Plan, the pages that follow present a succinct overview of each mode at both the national level and at the level of urban public transportation.

### 3.1 AIR TRANSPORT

Brazil's continental characteristics lend themselves to the development of air transportation because of its ability to cover long distances and natural obstacles quickly and easily. As such, this mode is an important tool for national integration in addition to facilitating the development of regions located near its infrastructure.

The first flight demonstrations in the early 20th century were held in public squares or gardens, since only a few meters were needed for takeoffs and landings. Subsequently, airfields were developed, organized to support the military activities of World War I. In Brazil, the first airfields were built to house military aviation schools in the 1910s. Commercial air transport began to develop in the country only in the following decade, with the creation of the first airlines in 1927. During this period, many airfields were transformed into airports, with the construction of cargo and passenger terminals.

The Brazilian Aeronautics Code (Law 7,565/1986) defines **airport infrastructure** as the array of air navigation support entities, facilities or structures with the goal of promoting safety, regularity and efficiency in the provision of this service. The same law specifies that the **airport system** is composed of all Brazilian aerodromes, including their airstrips, taxiways, parking lots, cargo and passenger terminals and all facilities (such as beacons, lighting and firefighting service, among others).

Aerodromes are all areas intended for the takeoff, landing and movement of aircrafts. Airports, in turn, are public aerodromes equipped with facilities to support aircraft operations and the boarding and disembarking of passengers and cargo<sup>18</sup>.

In 2005, Law 11,182/2005 created the National Civil Aviation Agency (ANAC), which seeks to regulate and supervise civil aviation activities as well as the aeronautical and airport infrastructure in Brazil. Among other things, the agency is responsible for observing and implementing guidelines for establishing a model for the concession of airport infrastructure.

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<sup>18</sup> Law 7,565/1986.



Since the beginning of the 20th century, the development of the sector has been greatly influenced by the technological evolution of aircrafts and the country's economic situation. Fundamental for the popularization of this mode of transportation was the invention of new technologies that have enabled improvements in aircraft energy efficiency, an increase in the average number of passengers per flight and a rise in average travel speed. This increase in efficiency has led to cost reductions for airlines, which, coupled with a more efficient management of their financial, human and material resources, has enabled them to increase productivity and consequently lower airfares, thereby contributing to increased demand.

The modernization of aircrafts also meant that airport infrastructures had to adapt to meet their new ground operating needs. Additionally, Brazil's favorable economic situation between the 1990s and early 2000s further boosted the growth in demand for this mode of transport, pushing airport infrastructure to be able to provide sufficient levels of service to people and companies that use this space.

In this context and given the bottlenecks faced by the airport system, the development of this infrastructure did not keep up with the growing demand for services, particularly when faced with the challenges inherent to making the necessary investments in Brazilian airports. As such, in 2012 the federal government began the process of airport granting. This process aims to enable investments by private enterprises in airports and to allow adequate allocation of public resources to smaller public airports.

As such, also in 2012, the Regional Aviation Program (PDAR) was launched, which seeks to develop regional aviation in Brazil, connecting the most distant areas of the country. The program oversees investments in the construction and refurbishment of 270 airports so that 96% of the population is at most 100 kilometers from a passenger terminal. In this scenario, the reduced number of passengers is a challenge for airlines to operate in these locations. In this way, the program also intends to subsidize airlines that provide regular service between these airports. The law governing the issue of subsidies is awaiting regulation by the executive branch of Brazilian government. With these proposed objectives, the government identifies three pillars of the program: port infrastructure, management and subsidies.

According to the Ministry of Transport, Ports and Civil Aviation (MTPA), by December 2017, the program totaled 36 signed and valid transfer instruments for investment in regional airports, as well as equipment investment programs benefiting more than 50 regional airports. Finally, in regards to the program, it should be noted that it is not intended to be permanent, not to exceed five years in length and renewable one time for the same period<sup>19</sup>.

Currently, 64 airports operate in Brazil, 54 of which are managed by the Brazilian Airport Infrastructure Company (Infraero), with the others having been granted to the private sector,

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<sup>19</sup> Although launched in 2012, PDAR was officially created by Law 13,097 of 2015. Therefore, the maximum duration of the program, considering the extension, is expected to be until 2025.

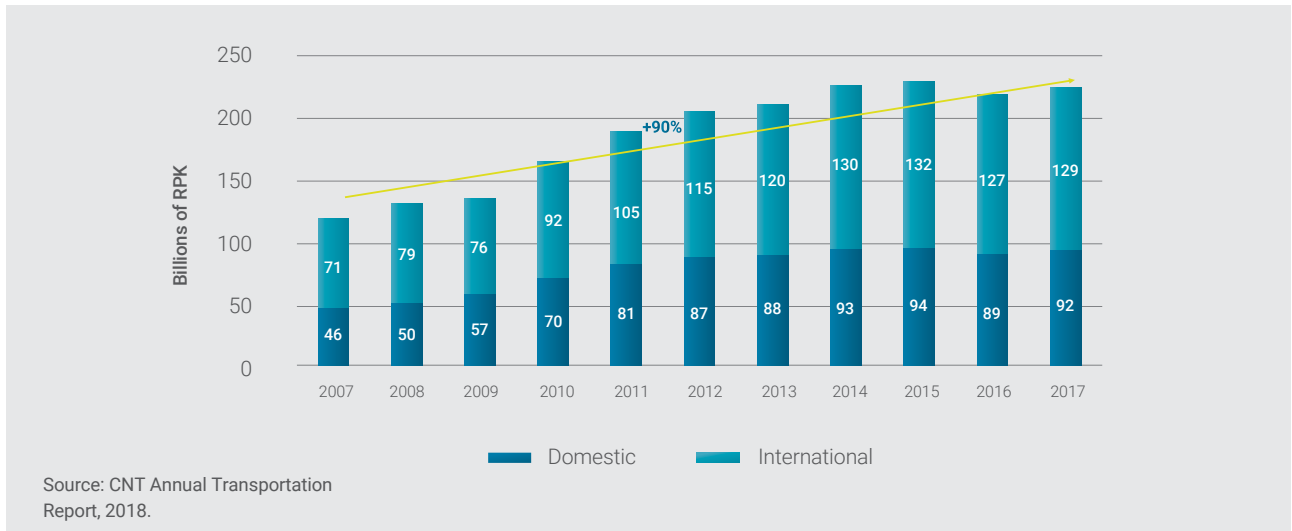
namely: the airports of Brasília, Guarulhos, São Gonçalo do Amarante, in Natal, and Viracopos, granted in 2012; Confins and Galeão airports, granted in 2014; and Florianópolis, Fortaleza, Porto Alegre and Salvador airports, granted in 2017. Another 13 airports were included in the Advance Partnerships Program and are also set to be managed by the private sector (North Block: Recife, PE, Maceió, AL, Aracaju, SE, João Pessoa, PB, Campina Grande, PB and Juazeiro do Norte, CE airports; Central-West Block: Várzea Grande, MT; Sinop, MT; Barra do Garças, MT, Rondonópolis, MT; and Alta Floresta, MT airports; Southeast Block: Vitória, ES and Macaé, RJ airports). The institution responsible for managing and overseeing concession contracts is ANAC.

Notable last year was the concession of Viracopos airport in Campinas, SP due to the economic and financial difficulties faced by the concessionaire running the airport, whose shares are held by Infraero (49%) and the private sector. Initially, a return of the concession with subsequent reauctioning of the airport was sought. However, the law authorizing returns had not yet been regulated, making the implementation of this solution unfeasible. In February 2018, ANAC filed a concessionaire forfeiture process, which was dismissed by the court until the request for financial restructuring solicited by the airport management consortium was analyzed, with the aim of preserving its assets and ensuring the continuity of its services. The financial restructuring plan was presented in July 2018.

Proposals for airport concessions to private enterprises are motivated by the growth of the Brazilian airline industry and the challenges inherent to such expansion. Over the period of 2007-2017, the number of revenue passenger kilometers (RPK) in the domestic Market increased by 91.4%, representing an average annual growth of 8.0%, as shown in Figure 4. As for the international market, demand for flights to or from Brazil increased by 82.5% over the same period, increasing by 6.7% per year on average. In 2017, domestic, international and scheduled commercial flights in Brazil accounted for 220.7 billion revenue passenger kilometers, representing an increase of 3.2% over the previous year. On a global scale, over the same period, there was a 7.6% increase in the number of kilometers traveled by paying passengers, with approximately 7.7 trillion revenue passenger kilometers earned, according to the International Civil Aviation Organization (ICAO)<sup>20</sup>.

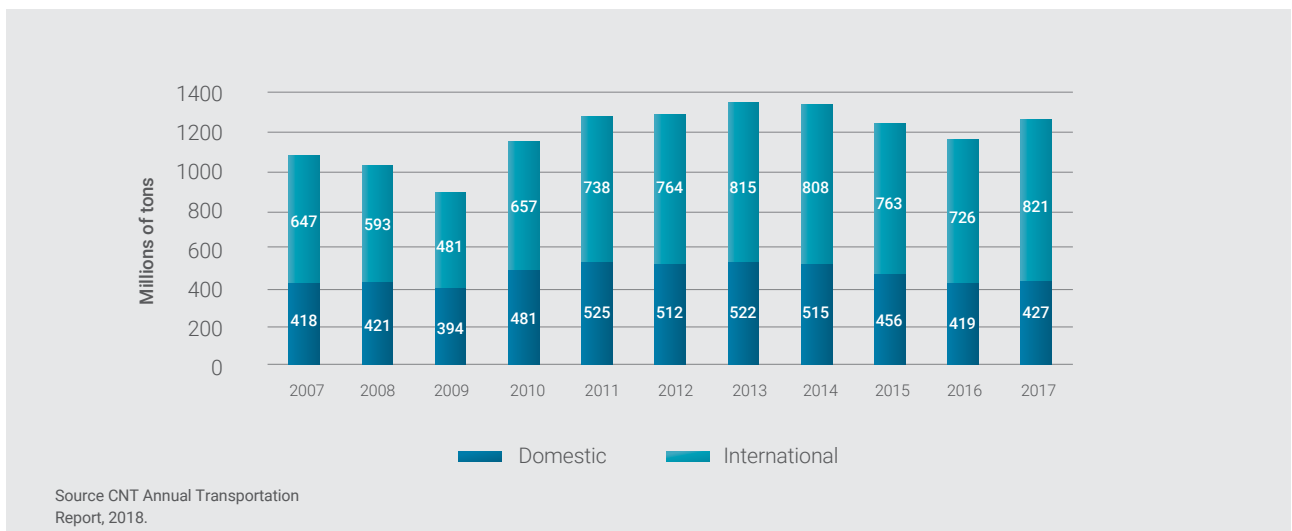
<sup>20</sup> The pace of this growth varies from country to country depending on several factors such as economic expansion and investments made in the airport sector.

Figure 4 - Evolution in the amount of kilometers traveled by paying passengers – domestic and international markets, 2007-2017



In regards to cargo transportation, paid cargo and mail transport increased by 2.1% in the domestic market and 26.9% in the international market from 2007 to 2017<sup>21</sup>. In relation to the low growth of domestic cargo transportation detailed in Figure 5, the influence of the economic recession of 2015-2016 on the sector can be clearly seen. In 2015, for example, there was a 13.0% drop in the amount of paid cargo and mail transported compared to 2014; the same occurred in 2016, with a decrease of 8.7% over the previous year.

Figure 5 - Evolution in the amount of freight paid and mail transported – domestic and international markets, 2007-2017



21 CNT Annual Transportation Report, 2018.

In 2017, Brazilian air cargo transport grew by 8.2% compared to 2016, representing the transportation of more than 1.2 million tons. By comparison, at the global level this sector grew by 9.5% over the same period<sup>22</sup>, due in large part to the revival of world trade and the subsequent increase in exports and imports.

Despite the growth achieved in recent years, it's clear that there is still enormous potential for growth of this market, the outlook for which is very promising when considering the prospects of the country's economic growth. However, it is also clear that the development of airport infrastructure has not kept up with the expansion in the provision of air service in recent years, which, according to the study Transportation and Economics – Passenger Air Transportation is the main bottleneck affecting the sector's development. As such, investments are needed to expand the capacity of terminals as well as aircraft yard and runway systems, to build and reactivate airports and to implement a more modern air traffic system.

## 3.2 WATERWAY TRANSPORT

Waterway transportation can be performed on the **open sea** – in unsheltered maritime areas – or in **inland waterways**, which include rivers, lakes, lagoons, channels, bays, coves, inlets and sheltered maritime areas which are naturally navigable or have become navigable through dredging, signaling and/or beacon installation.

Law 9,432/1997, which governs the regulation of waterway transportation, defines five types of navigation: **long distance** is defined as navigation between Brazilian ports and foreign ports; **cabotage**, in turn, is navigation between different areas or ports within Brazilian territory, with the ability to use maritime routes and/or inland waterways; **inland navigation** is performed on inland waterways via routes that are either entirely domestic or international; **maritime support** is navigation intended to serve as logistic support for vessels and facilities in Brazilian waters and in the Economic Zone in which mineral and hydrocarbon harvesting and mining activities take place; finally, **port support** navigation is defined as that which is carried out exclusively in ports and waterway terminals to service vessels and port facilities.

In addition to the coast and inland waterways, waterway infrastructure is composed of ports and port terminals, which can exist along seas, rivers or lakes. Resolution 2,969 of 2013 of the National Waterway Transportation Agency (ANTAQ) defines sea ports as those capable of receiving oceanic shipping lines (both long distance and cabotage), regardless of their geographical location.

**River ports**, in turn, are defined as those that receive navigation lines originating from or destined for other ports of the same river basin or are connected by inland waterways. **Lake ports** are those that receive vessels inside lakes or reservoirs that have no connection with other basins.

<sup>22</sup> According to data from ICAO.



Inland navigation was already in use Brazil well before its colonization as a means of transportation for the native population, especially in the Amazon region. After the arrival of the Portuguese, waterway transportation continued to be a strategic means for locomotion, cargo transportation, integration and for ensuring national sovereignty.

The development of the current Brazilian port system, in turn, is based on the Ports Opening Decree, enacted in 1808 by Dom João VI. Through this decree, the port system, which for decades was restricted to trade with Portugal, was opened to the so-called Friendly Nations, which represented Brazil's first experience with foreign trade. Another milestone that drove the sector's development was the Concessions Law of 1869, which allowed the private sector to participate in the financing of port expansion works. This private investment model lasted until the 1930s, after which the state assumed the role of financier and operator of the national port system.

To regulate and manage public investments in the port and shipping sectors, the National Department of Ports and Navigation (DNPN) was created in 1934, which ultimately underwent several changes over the years, until, in 1975, the then National Department of Ports and Navigation was dissolved and the Brazilian Ports Company (Portobrás) was established. Portobrás acted as the national port authority and was responsible for the economic operation of ports and for their management either directly or through their subsidiaries, *Companhias Docas*. It was also intended to oversee, coordinate and regulate activities related to inland waterways.

In 1990, Portobrás was discontinued and its responsibilities were transferred to *Companhias Docas* and the National Department of Waterway Transportation. In 1993, new institutional changes took place and the duties of this department were transferred to the Ports and Waterways Department, which was linked to the Ministry of Transport.

The year 1993 also saw the amendment of the Port Modernization Law (Law 8,630/1993). This law redefined the roles of the port authority, the port operator and the country itself in the management and regulation of the sector. The law encouraged port concessions and leasing of port areas, and increased the participation of states, municipalities and private enterprises in the economic operation of port activity. Decree number 1,642 of 1995 reorganized the Ministry of Transport and created an exclusive department for waterway transportation.

In 2001, Law 10,233 restructured the waterway and land transportation sector again, creating the National Council for Transportation Policy Integration (Conit), the National Waterway Transportation Agency (Antaq) and the National Department of Transportation Infrastructure (DNIT). Conit is tasked with proposing national integration policies between the different modes of transportation. Antaq became the authority responsible for regulating and overseeing activities related to the provision of waterway transportation services and the operation of port and waterway infrastructure. Finally, DNIT is responsible for implementing the national

policy for waterway infrastructure, as well as operating, maintaining, restoring and expanding waterways, cargo riverboats and intermodal terminals with the exception of ports.

Later, the Special Secretariat for Ports (SEP) was created by Law 11,518/2007 in 2007, which was conceived to manage the creation of guidelines and policies for the development of port infrastructures, aiming to increase safety and efficiency of operations in the sector. In 2010, the name of SEP was altered to the Presidential Secretariat of Ports (Law 11,518/2010) and in 2017, the Secretariat was dissolved and the National Secretariat of Ports was created, no longer linked to the executive branch but rather to the Ministry of Transport, Ports and Civil Aviation (MTPA)<sup>23</sup>.

In order to improve the operating conditions of Brazilian ports, the first phase of the National Dredging Program (PND1) was instituted in 2007. Maintaining the depth of channels, turning basins and mooring berths of ports is essential to ensuring their operational capacity and competitiveness. As a result of PND1, dredging services were carried out in 16 ports. In 2012, the 2<sup>nd</sup> phase of the program (PND2) was launched by Provisional Measure 595 of 2012, which was later converted into Law 12,815 of 2013.

The General Grant Plan (PGO) of 2009 established the possibility of opening the port sector to private investment, as well as identifying priority areas for the construction and expansion of ports. The opening of private ports was regulated by SEP Ordinance No. 108 of 2010, which eliminated the requirement that interested parties should have their own cargo.

In this context, it was also called the New Port Law, Law 12,815 of 2013, which provided for the direct and indirect economic operation of ports. This law provides for greater openness to private ports, either through concessions, leases or authorizations, with the aim of promoting the expansion and modernization of port infrastructure and management. Additionally, it allows private operators to propose, their own initiatives for the construction of new port facilities outside organized port areas and to move third party cargo to new facilities via authorization.

With regard to inland waterway policies, the National Waterway Integration Plan (PNIH) and the Strategic Waterway Plan (PHE) were launched in 2013. The PNIH was developed by Antaq and offers a detailed study of the national waterways, indicating areas suitable for port facilities based on different logistics scenarios for 2015, 2020, 2025 and 2030. The PHE, in turn, was developed by the Ministry of Transport and includes strategies to improve the navigability of rivers, with recommendations for each waterway system to promote the development and structuring of inland transportation in Brazil.

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23 Decree 9,000/2017.

Considering the above, it is worth highlighting some data about the sector, starting with the strategic importance of this mode of transportation for the country's economy as illustrated by its notable participation in the total movement of goods for foreign trade. According to data from the Ministry of Industry, Foreign Trade and Services, in 2017 the sector handled, in tons, 98.7% of exports and 91.3% of imports<sup>24</sup>. Still, Brazil's waterway potential is almost untapped, considering that the country has nearly 42,000 kilometers of potentially navigable rivers and more than 7,000 kilometers of coastline.

According to Antaq, waterway transportation handled almost 1 billion tons in 2017, of which 80.6% corresponded to long distance navigation, 15.7% to cabotage navigation and only 3.7% to inland navigation. It is important to note, however, that inland navigation data do not reflect all transportation via inland waterways due to the lack of information on movement between terminals not authorized and/or regulated by Antaq. In addition, inland navigation stood out with 32.1% growth in total tons of cargo transported compared to 2016, while long distance transportation grew 8.2% and cabotage only 4.1%.

In 2017, the predominant type of long distance cargo in tons was dry solid bulk cargo, representing 76.2% of transported cargo, followed by containerized cargo with 10.2%, liquid bulk cargo and gaseous bulk cargo with 9.3% and general cargo with 4.3%. Of the total cargo shipped by group of goods, iron ore stands out from the rest, corresponding to 57.9%. As for the total of cargo unloaded during the same period, containers stood out with 22.4%; petroleum and derivatives with 20.9%; fertilizers with 17.8%; and coal with 15.4%.

In terms of cabotage navigation, liquid and gaseous bulk cargo was the most prevalent type, representing 75.3% of the total transported followed by dry bulk cargo with 13.6%, containerized cargo with 7.6%, and general cargo with 3.5%. Of the total handled by cabotage by group of goods, oil and oil derivatives stand out, representing 72.1%.

Also in 2017, according to Antaq, 72.1% of the total transported in tons by inland navigation was from dry bulk cargo, with soybean and corn representing the largest share in this group (46.4% of the total). Liquid and gaseous bulk cargo represented the second largest group in tons in inland waterway transport with 15.2%, followed by general cargo with 11.6% and containerized cargo with 1.0%. Among the hydrographic regions with available information, the Amazon region is of particular note, with 54.9% of the cargo transported via inland navigation passing through this area<sup>25</sup>, followed by the Tocantins-Araguaia hydrographic region with 22.8%.

The Brazilian port system is made up of 37 organized<sup>26</sup> public ports located in 17 states, of which 34 are maritime and 3 are inland, as well as 143 private use terminals. Among public

24 According to data from Comex Stat, calculated based on movement via maritime and waterways navigation routes.

25 Value calculated based on cargo that had at least origin or destination in the Hydrographic Region considered.

26 As defined by Law 12,815/2013, an organized port is a public asset built and equipped to meet the needs of navigation, cargo and passenger transportation and cargo storage, whose traffic and port operations are under the jurisdiction of the port authority.

ports, 18 are delegated, granted or administered by state or municipal governments, while the remainder are managed by *Companhias Docas*<sup>27</sup>. Of private terminals, 94 displayed maritime transportation (long distance and/or cabotage) in 2017.

As for shipping loading and unloading locations, movement in organized public ports in 2017 corresponded to 33.6% of the total tonnage handled<sup>28</sup>, with the rest being moved to private use terminals. The five busiest organized ports – Santos, SP; Itaguaí, RJ; Paranaguá, PR; Rio Grande, RS; and Suape, PE – account for almost 70% of the total cargo handled in tons. Of these, the Port of Santos had the most notable movement, with 29.2% of cargo handled in all public ports.

The National Traffic System (SNV), established by Law 12,379/2011, lists the set of inland waterways in Brazil which total 41,630 km in length. Under this law, waterways are classified in the following basins, in descending order of length: Amazon Basin (23,349 km), Paraná Basin (4,632 km), São Francisco Basin (4,171 km), Northeast Basin (3,046 km), Paraguay Basin (2,793 km), Southeast Basin (1,359 km), Uruguai Basin (1,200 km) and East Basin (1,080 km). Antaq estimates that of this total, only 19,464 km are economically navigated<sup>29</sup>, which corresponds to only 46.8% of the total length counted by the SNV.

Inland waterway navigation also plays an important role in passenger transportation, particularly in the North Region.

Antaq describes three types of passenger inland waterway navigation and mixed-use river transportation: state longitudinal transportation lines are those that travel between the municipalities and localities of the same state; interstate longitudinal transportation lines are those that travel between municipalities and localities of two or more states; Finally, crossing lines are characterized as navigation across rivers and channels, or between two points on the shores of lakes, lagoons, bays, coves and inlets, or between islands and river banks of less than 11 nautical miles<sup>30</sup>. According to the agency<sup>31</sup>, in the states of Amapá, Amazonas, Pará and Rondônia, there are a total of 154 mixed-use and passenger state longitudinal lines, 24 mixed-use and passenger interstate longitudinal lines and 8 crossing lines. For the operation of these lines, 473, 80 and 93 vessels are used, respectively. For 2017, an estimated 9.8 million passengers and 3.4 million tons of distributed cargo was handled by these transportation lines. Despite the problems identified for this mode of transport, such as the low level of service offered at terminals and its poor integration with other modes of transportation,

27 Joint stock company with the government as the majority shareholder.

28 The sum of the movement by maritime support and port support, in tons, represented less than 0.4% of the total boarding and disembarking in 2017.

29 Antaq considers an economically navigable inland waterway to be one in which there is transportation by a Brazilian shipping company or by a state company in the provision of longitudinal cargo and/or passenger service.

30 1 nautical mile is equal to 1.852 km.

31 According to a 2017 study released by Antaq, on Characterization of the Supply and Demand of Passenger and Cargo Inland Waterway Transportation in the Amazon Region.

it is clear that inland waterway transportation on mixed-use vessels remains the basis of transportation throughout the Amazon River corridor and its tributaries.

The 2013 CNT Survey of Inland Navigation, the 2012 CNT Survey of Maritime Transportation and the 2013 CNT Survey of Waterway Transportation – Cabotage identified the main obstacles to the development of waterway transportation in Brazil. These include: difficulty of obtaining financing by transporters, insufficient training of the workforce, the high cost of piloting and crew, weaknesses in waterways and port and terminal infrastructures, lack of integration between different modes of transport, low supply of ships, conflict with competing sectors in the use of bodies of water, low level of public investment in the sector, and competition between the types of navigation that claim the same resources for operation.

### 3.3 RAIL TRANSPORT

Throughout the 19th and early 20th centuries, the first rail projects in Brazil were developed through concessions to private investors. Showing itself to be suitable for the flow of the growing agricultural products towards the coast, rail transport saw significant expansion. In 1922, the rail system in the country was approximately 29 thousand kilometers long. During the first half of the 20th century, however, the sector was hit by financial difficulties, and several companies either closed down or were nationalized.

As part of a sector reorganization, the Federal Rail Network Corporation (RFFSA) was created in 1947, bringing together 18 federally controlled railways with approximately 37 thousand kilometers in total length<sup>32</sup>. The intention was to strengthen state investment, improve management and maintenance, and expand the existing network. These goals, however, were not achieved. In the first half of the 1980s the company had a significant technical-operational imbalance, infrastructure was degraded, and the rolling stock suffered from a lack of maintenance. Economically unfeasible extensions had been suppressed. Given this situation, the federal rail network was included in the National Privatization Program in order to relieve the country and increase both the efficiency of the sector and the quality of the service provided.

In 1996, the 25,599 km-long RFFSA system was segmented into six regional networks, which through bidding processes were granted by the Union to private operators for 30 years – extendible for the same period of time. The concession of the networks as well as the leasing of operating assets were granted to the following companies: Ferrovias Novoeste S.A. (Novoeste), Ferrovias Bandeirantes S.A. (Ferrobán), América Latina Logística do Brasil S.A. (ALL), Ferrovias Centro-Atlântica (FCA), Ferrovias Tereza Cristina S.A. (FTC), MRS Logística S.A. and Companhia Ferroviária do Nordeste (CFN)<sup>33</sup>. Before these concessions, made in the 1990s, the Union had

<sup>32</sup> ANTT.

<sup>33</sup> Due to changes in the corporate name, some of the concessionaires now have new names. Ferrovias Novoeste S.A. (Novoeste), Ferrovias Bandeirantes S.A. (Ferrobán), América Latina Logística do Brasil S.A. (ALL) and Companhia Ferroviária do Nordeste (CFN) changes,

already granted other railways. In 1953, it granted the 194 km Amapá Railway – connecting Serra do Navio to the port of Santana – for the transportation of manganese ore and in 1979 granted the 68 km Jari and 35 km Trombetas Railways, located in Pará, for the transportation of timber and bauxite, respectively. In 1997, operation of the Vitória-Minas Railway (EFVM) and the Carajás Railway (EFC) was granted to the then Companhia Vale do Rio Doce (CVRD). In the same year, CVRD was privatized. Through an auctioning process the privatization of EFVM and EFC was conducted through the transfer of shares to private investors.

Before the privatization process, the federal government had granted the construction, operation, exploration and maintenance of other railways via concessions. These so-called “Planned Railways” comprise the North-South Railway (FNS) – granted in 1987 to Valec, Engenharia, Construções e Ferrovias S.A.<sup>34</sup> –, the Estrada de Ferro Paraná Oeste S.A. (Ferroeste) – granted in 1988 to the Paraná state government – and Ferrovias Norte Brasil S.A. (Ferronorte) – granted in 1989 to the concessionaire whose corporate bylaws were mchanged in 2008 to América Latina Logística Network Norte S.A.<sup>35</sup>. Regulation of public rail service activities, operation of its infrastructure and monitoring of the execution of concessions agreements fall to the granting party, which since 2001 have been assigned to the National Land Transportation Agency (ANTT). In concession agreements, concessionaires are not required to make certain amounts of investments, but rather to meet safety and performance goals. As such, it is up to each concessionaire to decide on the investments to be made so that the goals are met. The Union retains ownership of the permanent network for the term of the agreement. It is also up to federal, state and municipal governments – depending on the jurisdiction of the rail route – to be responsible for solving the problems of pre-concession right of way intrusions and level crossings.

Considering the above, it should be noted that the national rail network belonging to operators regulated by ANTT currently has a total length of 29,074 km, of which 22,087km, or 76.0%, is in meter gauge (1.0 m); 6,473 km, or 22.2%, in broad gauge (1.6 m); and 514 km, or 1.8%, in dual gauge. This network runs through 22 states in all Regions of the country. Total freight transported in 2017 by all concessionaires was equal to 538,780,350 of usable tons (UT) – an increase of 29.9% compared to 2007. Transport production in millions of ton-kilometers (TKM), in turn, was 375,239 – a 45.9% increase compared to 2007. In the same period, the number of locomotives in circulation increased by 58.1% while the number of railcars increased by 21.3%. In the period from 2010 to 2017, the number of accidents per million kilometers increased by 28.7%<sup>36</sup>.

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respectively, to América Latina Logística Malha Oeste S.A. (ALLMO), América Latina Logística Malha Paulista S.A. (ALLMP), América Latina Logística Malha Sul S.A. (ALLMS) and Transnordestina Logística S.A. (TLSA). In 2015, the merger between Rumo Logística and América Latina Logística gave rise to the rail operator Rumo, which covers the West, Paulista, North and South networks.

34 Public company linked to the Ministry of Transport, Ports and Civil Aviation.

35 Currently controlled by Rumo and called Rumo Malha Norte S.A.

36 CNT Annual Transportation Report, 2018



From 2006 to 2016, accumulated investments made by concessionaires totaled \$43.64 billion BRL<sup>37</sup> at today's price. These funds were mainly allocated to permanent tracks – 44.9% of total investment – and rolling stock – 26.2%. In relation to the type of goods transported, iron ore stood out in 2017 with the largest share in payload tons – 77.3% –, followed by soybeans with 4.5% and corn with 3.3%<sup>38</sup>.

Despite developments in rail transportation and the subsequent gains in safety and efficiency as well as increased demand in recent years, much remains to be done in the sector. Private investments have led to an improvement in rail service and a better use of this mode for the transportation of large quantities of commodities over long distances. However, in addition to investments, changes in the legal and bureaucratic framework are also required given the challenges faced by the sector.

In this sense, the CNT Railway Survey 2015 identified the following barriers to the development of the national rail system: right of way intrusions, critical level crossings, physical and operational bottlenecks, and challenges in the expansion of the existing network. Physical and operational bottlenecks include the winding or mountainous layout of railway routes, the sharing of the railway between freight trains and passenger trains, low port handling capacities, the lack of intermodal terminals and the existence of different gauges within the network. The difficulties of expanding the existing network, in turn, are related to the lack of joint planning of the logistics system from an intermodal perspective, gaps in project design, delay in obtaining environmental licenses and institutional complexity, often characterized by undefined responsibilities and overlapping jurisdictions. In the context of sector regulation, challenges include process complexities, excessive bureaucracy and regulatory gaps.

Given the situation of transportation of goods, intercity and interstate transportation of passengers by railway has been markedly low in Brazil. Particularly notable is the service offering on the Vitória-Minas Railway, between Vitória, ES, and Belo Horizonte, MG, and on the Carajás Railway, between São Luís, MA, and Parauapebas, PA, where 1,214,400 passengers<sup>39</sup> were transported in 2017. However, demand for this type of service is expected to be greatly stifled.

### 3.4 ROAD TRANSPORT

Road transportation in Brazil peaked during the 1960s and 1980s. During this period, the paved extension of the federal road network increased from 8,675 km in 1960 to 47,487 km in 1980<sup>40</sup>. This expansion was the result of the adoption of a series of policies that prioritized investments in this mode of transport, particularly for the creation of the National Road Fund

37 Data for 2017 was not available at time this Plan was concluded.

38 ANTT.

39 CNT Annual Transportation Report, 2018.

40 40 Ipea, 2010.



(FRN). The FRN was created in 1945 by Decree-Law 8,463, which gave administrative and financial autonomy to the then National Department of Roads (DNER), created in 1937, but only then began to act as the first autonomous Brazilian road agency.

The FRN was a fund linked to the DNER budget initially formed by the Single Tax on Liquid and Gaseous Fuels and Lubricants (IUCL). This fund ensured a stable and high resource flow for the expansion of the paved federal road network. However, from the 1970s onwards, the resources allocated to this fund were progressively transferred to the newly created National Development Fund (FND), until 1982 when the linkage of these resources to the road sector was dissolved. With this, the federal government came to depend entirely on the funding provided in annual budgets to make the necessary investments in the sector. Given this scenario, road infrastructure has entered a period of gradual decline, since investments have not been sufficient for proper road maintenance.

The Federal Constitution of 1988, when definitively dissolving the FRN by prohibiting the linking of tax revenue resources to predetermined expenditures, also opened the possibility for private companies to provide services deemed to be of use to the public by bidding. As such, road concession is now considered an alternative for the restoration of investment in the federal road network. The road concession program began with low numbers in 1995 with the Federal Road Concession Program (Procofe). In 1996, the Delegations Act was enacted, which allowed the Union to delegate to states or municipalities sections of federal road to be included in the respective road concession programs. Today, Brazil has 9,223.80 km of federal roads granted to the private sector. The agency responsible for managing and overseeing these concessions at the federal level is the National Land Transportation Agency (ANTT).

ANTT was created in 2001 by Law 10,233/2001, which restructured the transportation sector through the creation of Conit, Antaq, ANTT and DNIT, and through the dissolution of DNER. In the context of road transportation, ANTT is responsible for regulating interstate and international road passenger transportation, road freight transportation, the operation of federal road infrastructure, multimodal transportation and the transport of special and dangerous freight on roads. DNIT is responsible for managing, either directly or through agreements, the operation, maintenance and restoration of federal roads, as well as managing projects and works for the construction and expansion of federal roads.

Despite the drastic reduction in the rate of expansion of the road network and low investment compared to levels reached between the 1960s and 1980s, road transportation remains the prevalent mode in Brazil's transportation network, with a 61.1% share of freight transport<sup>41</sup>. In turn, road transport was responsible for the transportation of approximately 79.5 million passengers on interstate and international scheduled lines in 2017. In 2013, this number exceeded 122 million passengers, representing a 35.0% decrease over the last five years. This

<sup>41</sup> Share calculated in TKM.

can be explained in part by the economic crisis facing the country during this period – which may have resulted in a general fall in the number of trips made by Brazilians – and also by a possible change in user preference for transportation types. For example, over the same period there was a slight increase of 2.2% in the number of passengers using air transportation.

In 2017, the total length of Brazilian roads was 1,720,700.61 km, most of which was unpaved – 1,349,938.5 km (78.5% of the total) – followed by paved roads at 213,452.8 km (12.4% of the total) and planned roads at 157,309.3 km (9.1% of the total). Among paved roads, 30.7% (65,614.5 km) are federal, while the remaining 69.3% (147,838.3 km) are transitory state roads<sup>42</sup>, state roads or municipal roads. Single lane roads are the most prevalent o paved federal roads, representing 57,811.8 km or 88.1% of the total.

The federal paved road network grew by 8.5% from 2007 to 2017, totaling 65,614.5 km in length. However, this expansion may be considered insignificant when considering other factors influencing the increase in transportation demand, such as GDP growth, which from 2007 to 2017 increased by 141.2%<sup>43</sup>, as well as the evolution of the vehicle fleet, which almost doubled in the same period.

Between 2007 and 2017, the number of vehicles in the country grew from 49.6 million to 97.1 million, representing an increase of 95.6%. In 2017 alone, 2.7 million vehicles were manufactured in Brazil, of which 84% were automobiles, 12.1%, light commercial vehicles, 3.1% trucks and 0.8% buses. The total volume of manufactured vehicles grew by 24.0% compared to 2016, indicating a resumption of growth in the sector, which had been in steady decline since 2014 as a result of the economic crisis. The number of motorcycles has more than doubled from 9.4 million to 21.6 million also in the period from 2007 to 2017, representing an increase of almost 130.0%. This expansion has a significant impact on the management of urban transportation.

Licensing of road freight vehicles – trucks, tractor-trucks, trailers and semi-trailers – also grew by 78.9% between 2007 and 2017, indicating an increase in demand for road transport services and a subsequent increase in pressure on road infrastructure. Despite this growth, the average age of the truck fleet in Brazil is still very high. In 2018, the average age of vehicles registered with the National Registry of Freight Carriers (RNTRC) was 16.3 years for independent carriers and 9.4 years for companies. When compared to data published in the latest version of the CNT Plan in 2014, a reduction can be observed in the average age of vehicles used by independent carriers in contrast with an aging of the fleet of companies.

In the 2017 CNT Road Survey, 105,814 km of roads were assessed, encompassing the entire federal network and the main paved state roads. The following characteristics of the roads

42 Transitory or coincident state roads are existing state roads whose route overlaps with the route of a planned federal road.

43 Amount of nominal growth does not consider inflation for the period. Amount calculated based on IBGE data.

were analyzed: General Condition of Road, Pavement, Signs and Geometric Design; classifying them as “Great”, “Good”, “Fair”, “Bad” or “Very Poor”. In the criteria of General Condition, it was found that 38.2% (40,482 km) are in good condition – “Great” or “Good” – compared to 61.8% classified as “Fair” (33.6%), “Bad” (20.1%) or “Poor” (8.1%), indicating problems in pavement, signaling and geometric design.

Of the length surveyed by the 2017 CNT Road Survey, 20,348 km (19.2%) were under concession management (considering federal and state concessions), of which 74.4% of the total were considered satisfactory (“Great” or “Good”), while for roads under public management this percentage is only 29.6%.

Continuing with the General Condition of Road criterion, the states of São Paulo, Alagoas and Distrito Federal displayed the highest percentage of sections with satisfactory conditions, with 77.8%, 64.9% and 61.4% classified as “Great” or “Good”, respectively. On the other end of the scale, the states with the lowest percentage of roads with satisfactory conditions were Pará (3.4%) and Amazonas (4.5%).

Given the results presented by the CNT Road Survey every year, it was found that aside from the small number of paved roads in the country, a significant portion is still in unsatisfactory conditions. The resulting physical bottlenecks compromise the entire logistics system, inhibiting the country’s competitiveness.

In recent decades, there has been a significant reduction in public investment in transportation infrastructure. In 2007, 0.27% of Gross Domestic Product (GDP) was invested in the sector, which is already considered an extremely low percentage. In 2017, this percentage fell further to just 0.17% of the GDP. Most investments in the transportation sector are concentrated on road transportation, with an investment of 0.12% of the GDP.

Given this scenario, the 2017 CNT Road Survey and the “Road Transportation” series of studies identified the main bottlenecks for the development of road transportation in Brazil, which include: limited extension of the paved road network; poor condition of the roads, as verified by the results of the CNT Road Survey; the use of outdated techniques and materials in the construction of roads, impairing the durability of pavements and, consequently, the effectiveness of investments; the low level of public investment allocated to the sector, which are insufficient to properly maintain the roads; poor weighing control on federal roads; and a regulatory environment that should provide greater security for private investors.

### 3.5 URBAN PUBLIC TRANSPORT

The comfortable, speedy and safe movement of people while performing the various activities of their daily lives plays an important role in the economic development of the areas in which they live. Public transportation in urban and metropolitan areas, which facilitate travel by making the most efficient use of available means such as road infrastructure and fuel, contributes to reducing pollutant emissions and saving time and financial resources for transportation system users, businesses and society in general. The social and economic advantages of urban public transportation are of even greater importance because they are located in cities where most of the population and economic production are concentrated.

According to the United Nations (UN), in the Latin American and Caribbean Region the rate of urbanization is very high, representing 81% of the population<sup>44</sup>. Despite the remarkable size of so-called megacities such as São Paulo and Mexico City, more than half of Latin America's urban population lives in cities with less than one million inhabitants. In this sense, recent years have seen the development of secondary cities and an urban sprawl of cities in the country. In this context, the challenges that a lower population density represents for the provision of various public services, including public transportation, become particularly evident.

Despite the significant share of public transportation, walking or cycling in total travel, in Brazil and in Latin America the amount of individual transportation has increased due to the increase in the rate of vehicle use and the loss of users of public transportation. According to the Urban Population Mobility Survey 2017<sup>45</sup>, 50.2% of trips in Brazil are made by means of individual transportation, while 49.8% are made by public transportation. Since 2006, there has been a 10.2% reduction in the share of collective modes of transportation in the travel network of Brazilian cities, and 38.2% of survey respondents stopped using the bus as a means of transportation. Similarly, 16.1% discontinued the use of public transport entirely and 22.1% reported a decrease in their use. In place of buses, transportation alternatives have included individual cars (predominantly class A and B) and walking (particularly for classes C and D/E). The survey found that 53.3% of respondents did not have access to prioritization measures of public transportation by bus, such as preferential lanes, bus lanes and BRT systems.

The increase in the vehicle use rate is also related to increased purchasing power, tax incentives and ease of financing. The result is increased demand for road infrastructure and a growing number of traffic jams, with consequent economic losses and reduced quality of life due to time lost in traffic and the expenses imposed on society. The main causes indicated for traffic congestion are, in order, excessive number of cars in the street, the low public investment in urban mobility and insufficient urban transportation. Among the public transportation options in the cities, the most cited were, in order, buses, taxis and trains.

<sup>44</sup> According to "World Urbanization Prospects: The 2018 Revision"

<sup>45</sup> Prepared by the National Transportation Confederation (CNT) and the National Association of Urban Transportation Companies (NTU).

As noted before, the pressure exerted on the road system is partly explained by the significant growth in the car fleet in recent years. For example, from 2007 to 2017, according to the National Traffic Department (Denatran), the number of cars grew by 66.5% in Fortaleza, 80.3% in Belo Horizonte, 67.3% in Brasília, 54.3% in Salvador, 43.7% in Rio de Janeiro and 39.2% in São Paulo. On the other hand, urban bus systems in the same period decreased by 17.0% in the number of equivalent passengers carried per vehicle per day, and by 8.2% in the equivalent passenger rate per kilometer<sup>46</sup>. In a broader analysis, it should be noted that from 1993 to 2017, public transportation by bus lost 35.6% of paying passengers, with a particularly notable drop in demand over the past five years.

Given the above and despite the loss of passengers, the bus is still the most widespread means of public transportation in Brazil, corresponding to 86.3% of all public transportation. It is characterized by flexibility in operation and efficiency in short or medium distances. Vehicles can have different sizes, hold small and medium capacities and can also be articulated and bi-articulated. The current fleet of urban public transportation buses, with an average age of 5.3 years, is estimated to contain 107,000 vehicles operated by 1,800 companies. All together, they transport 39.6 million passengers a day. There are organized bus systems in 3,313 Brazilian cities and electronic ticketing systems in 86.5% of them.

Municipalities are responsible for organizing urban public transportation, which may be granted to private operators with or without subsidies. City trains, in particular, are generally the responsibility of the federal government due to the high investments required for their construction and operation. This responsibility, however, has been delegated to regional and local authorities. In this sense, the Companhia Brasileira de Trens Urbanos (CBTU) was created in 1984 with the purpose of implementing and modernizing rail systems for passenger transportation. From 1993 onward, through Law 8,693, decentralization began of urban rail passenger services from the Union to states and municipalities. CBTU's mission then shifted to transferring management systems to local governments.

Of the 20 currently existing subway systems in Brazil, six are federal, eight are state and six are concessions, spread across 15 metropolitan regions and 12 states. According to the National Association of Rail Passenger Carriers (ANPTrilhos), these systems transported about 2.9 billion passengers in 2017, representing a growth of 8.5% over 2013. The national network grew by 30.2 km in 2017, currently totaling 1,064.6 km in length. In total, subway systems have 46 lines, 583 stations and 5,353 cars and carry 9.97 million passengers per day.

Modes of rail transportation in urban areas, such as urban trains and metro systems, have a large transportation capacity, serving as structural elements for the cities and metropolitan areas in which they operate. Nevertheless, their share of the total number of passengers transported

<sup>46</sup> Operating data correspond to the performance of entities affiliated with the National Association of Urban Transportation Companies (NTU), in April, in the following capitals: Belo Horizonte, MG; Curitiba, PR; Fortaleza, CE; Goiânia, GO; Porto Alegre, RS; Recife, PE; Rio de Janeiro, RJ; Salvador, BA; and São Paulo, SP.

today corresponds to a very small portion of their immense potential in Brazil. These systems are characterized by total separation – or with a reduced number of intersections in the case of trains – from other flows of people and vehicles. They can circulate underground, at ground level and even on elevated structures.

Light Rail Transit (LRT), on the other hand, has an intermediate transportation capacity, placing it between metro systems and buses. It usually circulates at ground level, integrated with the traffic of vehicles and people, and can be separated into preferential lanes. It also presents low noise levels and does not directly pollute the environment<sup>47</sup>. The rigidity of its infrastructure and circulation shared with other traffic can, however, be a hindrance in the event of an accident or congestion, given the impossibility of passing obstacles. LRTs, in their original configuration as trams, played an important role in the expansion of urban networks in major Brazilian cities in the first half of the 20th century. Currently, they hold a largely underdeveloped role in the transportation network and despite the innovative character of LRT systems being implemented in the cities of Rio de Janeiro, RJ and Santos, SP.

The BRT (Bus Rapid Transit), being a mode of transportation on tires, resembles the LRT in terms of capacity, comfort and the attractive appearance of vehicles. The first BRT system was implemented in Curitiba, PR, in the 1970s. It has since been deployed in a number of cities around the world, having a more significant presence in Latin America and Asia, in particular in China. It is characterized by the use of larger capacity articulated or bi-articulated buses that travel on separate roads, with priority right-of-way at intersections and the with the ability to pass other vehicles. Payment is made in advance at stations, where boarding is fast and at the vehicle level. Vehicles and stations offer a higher level of comfort, with passenger information systems and their own visual identity. Despite the unique characteristics of vehicles and stations, BRTs generally integrate with other public transportation lines and networks.

There are some BRTs in design, under construction and in operation in Brazil. The systems in question have their own characteristics and are adapted to local conditions. There is a variety of proposed solutions, from projects in which all the previously described features are present, to projects in which only a part of the features is proposed. In some cases, the BRT lines constitute a structured transportation network, such as in Curitiba. In others, the lines exist as isolated corridors in order to respond to specific demands, without integration with the rest of the urban transportation system.

Compared to the LRT, BRT has advantages in terms of construction and operating costs, as well as greater flexibility in operation. The LRT, therefore, has a comparable positive impact on the city's image and the ability to attract individual transportation users, as well as lower environmental impact and greater capacity. The mobility projects designed for the

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47 In Brazil, there are some LRT systems with self-propelled traction (diesel engine) in accordance with the definition given for this mode by Contran through Resolution 585 of March 23, 2016. However, due to the operational characteristics of these systems, the so-called "diesel LRT" should be characterized as urban or metropolitan trains.



2014 World Cup host cities included several LRTs and BRTs, as well as preferential lanes for public transportation. However, some of these projects experienced delays and/or changes in relation to what was originally planned. The list of federal, state and municipal projects also includes urban transportation, paving and sign installation works and projects for the improvement, expansion and implementation of public transit systems – metros, LRTs, BRTs, bus lanes, among others.

Alongside the aforementioned forms of land transportation, waterway transportation is particularly important in urban public transportation systems in some Brazilian cities, especially in the North Region. By connecting two points separated by a water body, either because there is no alternative access via another mode or because of inherent public interest, waterway transportation in urban and metropolitan areas can be performed on conventional or high-speed vessels for passenger or mixed-use transportation. Antaq is responsible for granting authorization for the provision of passenger, vehicle and cargo transportation services for inland waterway navigation.

Of particular note in Brazil are the urban waterway systems of Rio de Janeiro, Santos, Salvador, Aracaju, Vitória, São Luís, Belém and the Amazon system. An example of this is the mass waterway transportation system of the state of Rio de Janeiro, which transports 20 million passengers per year on 19 vessels between Rio de Janeiro, RJ, and Niterói, RJ.

Having analyzed the various modes present in urban and metropolitan context, it should be noted that the problems perceived by users in their daily lives are typically rooted in an ever-prevalent approach in which each mode of transport is planned and operated in isolation from others. In order to meet a multitude of demands in increasingly complex transportation chains, urban mobility must be planned and carried out systematically so that the best features and potential of each mode are fully harnessed.

Given both the limitations of space and cost for the expansion of activities and infrastructure, it is necessary to adopt policies that favor a split of modes of transportation favorable to a collective approach. The ability of public transportation to attract users of individual transportation, in turn, is related not only to transportation costs, but above all to the level of service offered, considering in particular comfort, speed and safety. Integration of physical, fare and information aspects also allow travel chains to be enjoyed by users with a minimum number of obstacles, regardless of the number and variety of modes involved, in addition, public transportation should be given priority for traffic flow, as well as a transportation network with a higher level of service and sufficient capacity and service to meet the level of user demand.





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# METHODOLOGY

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The CNT Transportation and Logistics Plan was created in 2007 with the goal of improving the performance of Brazil's transportation and logistics system by providing a diagnosis of the country's investment needs. As aforementioned, this diagnosis includes the recommendation for a set of construction and adjustment projects of logistics infrastructures from a multimodal perspective.

In its sixth edition, the CNT Plan presents a consolidated methodology for selecting and proposing interventions considered essential to the transport and logistics sectors. These proposals are organized mainly according to the geographic scope, their spheres of influence and the characteristics of the service offered, being classified into National Integration Projects or Urban Projects. A description of these typologies is presented later in this chapter.

As an initial step in the project formulation process for the 2018 edition, the listing of proposals of the CNT Transportation and Logistics Plan 2014, which precedes the current edition, was used as the basis for this Plan. From this list, the projects not yet carried out that remain relevant were maintained and their information was updated and supplemented. This relevance analysis considered the interventions needed in order to make the transportation of people and goods more efficient according to a logic of network operation for National Integration Projects, and for Urban Projects, those aimed at improving transportation in the country's main urban areas. The projects not yet carried out include proposals in discussion phases, those that are planned, being studied, in bidding/contracting, stalled or under construction. As such, projects that are already completed are disregarded.

Subsequently, new contributions<sup>48</sup> were included from CNT-affiliated entities representing the operators of the various modes of cargo and passenger transportation and logistics infrastructures throughout Brazil. These are joined by the needs identified in the studies and research<sup>49</sup> developed by the Confederation, the suggestions of which complement and update the regional needs of carriers and producers.

This edition of the CNT Plan also considered some projects belonging to Federal Government plans and programs, such as the Growth Acceleration Program (PAC), the Advance Program, the Advance Partnership Program, the National Logistics Plan (PNL), the National Logistics and Transport Plan (PNLT), in addition to sectoral plans such as the Strategic Waterway Plan (PHE), the National Waterway Integration Plan (PNIH) and the Technical, Economic and Environmental Feasibility Studies (EVTEAs) of Brazilian waterways (prepared jointly with DNIT and its Waterway Administrations), the National Port Logistics Plan (PNLP), the Port Master Plans, the National Urban Rail Safety Program (Prosefer), the Regional Aviation Development

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48 They are considered "new contributions" since previous editions of the CNT Plan already included contributions from affiliated entities.

49 CNT Road Survey, CNT Rail Survey, CNT Inland Navigation Survey, CNT Water Transport Survey - Cabotage and CNT Maritime Transport Survey; additionally, the studies Transport and Development - Logistic Barriers to Soybean and Corn Flow, and Urban Railway Passenger Transport, Urban Logistics - Truck Restrictions?, Road Transport - Why doesn't pavement last?, Infrastructure and Road Accidents, among others.

Plan (PDAR) of the Federal Airport Assistance Program (Profaa), among others<sup>50</sup>. Specifically, for Urban Projects, the proposals in Master Plans or Transportation Plans of the various municipalities and their metropolitan agglomerations were considered<sup>51</sup>. The proposals included from these plans and programs were incorporated into projects assessed as relevant and not yet implemented (or not fully implemented).

The surveys conducted by entities from other segments related to logistics and urban mobility issues in the country were also considered, such as the National Supply Company (Conab), the Brazilian Agricultural Research Corporation (Embrapa), the Initiative for South American Regional Infrastructure Integration (IIRSA), as well as other governmental and non-governmental entities. It is worth noting that the entire project evaluation, selection and proposal process was carried out in this edition of the CNT Plan from January to July of 2018. As such, the proposals reflect the stages of interventions according to information available during this period. It also is worth noting that project data management – which includes information related to its characterization, progress, location and valuation, as well as additional information important for its understanding – was carried out in an information system specifically developed for the CNT Transportation and Logistics Plan.

When formulating CNT Plan projects, in large part only existing or planned public infrastructure interventions were considered. This is due to the Government's responsibility to directly or indirectly manage the main transport infrastructures. However, in addition to these projects, there were also interventions covered that relate to infrastructures granted through concession or that are privately managed but that are not part of the scope of the respective concessions and/or are the responsibility of the government. Examples include projects for duplication of privately managed road sections (where no duplication is provided for under the current contract) and construction and/or improvement of access to private port terminals. Interventions related to the construction or adjustment of infrastructures with concession planned but not yet implemented were also kept in the CNT Plan.

Although in general the private and granted infrastructure interventions are not covered by this CNT Plan, it is understood that concessions to the private sector and Public-Private Partnerships (PPPs) are ways to enable investments in logistics infrastructure without or with reduced burden on the public budget. As such, although the implementation of the proposed projects is notably the responsibility of the government, it is desirable to involve private entities in both intervention and infrastructure management in order to leverage the best operational results and a higher level of service for users.

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50 In the absence of information about plans of the federal government, regional and state logistics and transportation plans were also consulted.

51 Urban Projects of the CNT Transportation and Logistics Plan also include projects from the 2014 World Cup Responsibility Matrix and the Rio 2016 Olympics that have not been implemented (or have not been fully implemented) but which remain relevant for transportation in urban centers.



In relation to the investments required for the execution of projects proposed – both National Integration Projects and Urban Projects –, they were first defined by the proposing entities based on existing technical studies. In the absence of this amount, the required investments were estimated according to the specific methodology presented in Annex A - Methods and procedures for valuation of 2018 CNT Transportation and Logistics Plan projects. The amounts to be invested, presented in aggregate form in this Plan, refer to the implementation of the entire infrastructure for projects not yet started, and to the amount required for completion of projects that are in progress or stalled where a certain percentage of intervention has already been performed. The rules for this measurement are also detailed in Annex A.

Finally, it is important to highlight that the projects proposed in this CNT Transportation and Logistics Plan are, as a rule, subject to the evaluation of environmental studies so that the impact of their implementation and operation are minimized.

## 4.1 NATIONAL INTEGRATION PROJECTS

The National Integration Projects of the CNT Transportation and Logistics Plan include interventions along transport corridors, called “Structural Corridors”. These are created by clusters of existing or planned infrastructures (of the same or different modes of transport) that together constitute<sup>52</sup> important corridors for the movement of passengers and the intake and outflow of goods in the country, linking production centers and consumer and export centers (such as ports, border posts, capitals of Federative Units (UFs, later referred to as “states”) and agricultural and industrial production areas, among others).

Each Structural Corridor has a main route and complementary links, which facilitate access to other areas of the country to the main corridor route or distribution of movement from the main route to these other areas of the country.

The CNT Transportation and Logistics Plan has defined nine Structural Corridors, which are largely multimodal in nature. The names of the corridors were created from their geographic positions as well as the modes of transport considered. It is important to note that the routes of the corridors do not necessarily reflect transportation demands between their end points or usage (actual or potential) of infrastructures in all their sections with the same intensity.

The nine Structural Corridors are described (briefly) below and presented in Figure 6:

- 1) **Northeast-South Corridor:** passes through the Northeast, Southeast and South Regions, with endpoints in Fortaleza, CE and Rio Grande, RS. The corridor runs along BR-116 from Fortaleza, CE to Feira de Santana, BA, continuing by rail onto Belo Horizonte, MG - branch line proposed between Feira de Santana, BA and Conceição

<sup>52</sup> Or will constitute, when fully made possible.

da Feira, BA and the Centro-Atlântica railway (FCA), at which point it continues along BR-381 towards the city of São Paulo, SP. From São Paulo, SP, the corridor runs along a section of BR-374 to Boituva, SP and from there follows the Rumo Malha Sul railway (RMO) to Irati, PR, continuing from Irati, PR to Porto União, PR (via BR-153 and BR-476) and, again along the RMO network to Rio Grande, RS.

- 2) **Coastal Corridor:** passes through the North, Northeast, Southeast and South Regions of the country, with endpoints in Belém, PA and Porto Alegre, RS. The corridor starts in Belém, PA along highways BR-010 and BR-316 and travels to Teresina, PI, where it continues along BR-226, BR-343 and BR-222 to Fortaleza, CE. By highway alone (along its main route), the corridor continues from Fortaleza, CE to Natal, RN via BR-116 and BR-304; from Natal, RN to Itaboraí, RJ (passing through João Pessoa, PB, Recife, PE, Maceió, AL and Aracaju, SE, in addition to accessing Salvador, BA), via BR-101; and from Itaboraí, RJ to the PR/SC border by way of BR-116 and BR-376. In Santa Catarina and Rio Grande do Sul, the corridor again travels along BR-101 and BR-290 until reaching Porto Alegre, RS.
- 3) **North-South Corridor:** passes through the North, Central-West and South Regions and their borders with the Northeast and Southeast Regions, with endpoints in the municipalities of Barcarena, PA and Uruguaiana, RS. The corridor begins along the Tocantins River waterway from Barcarena, PA to Peixe, TO, passing through Palmas, TO. From Peixe, TO, it continues along BR-242 to Gurupi, TO and subsequently via BR-153 to the city of Itumbiara, GO. Between Itumbiara, GO and the border between Guaíra, PR and Mundo Novo, MS, the corridor is made up of the waterways on the Paranaíba and Paraná rivers. In the section between Guaíra, PR and São Miguel do Oeste, SC, the corridor is composed of BR-163 and then uses highways BR-282, BR-158, BR-285 and BR-472 to end in Uruguaiana, RS.
- 4) **Amazon Corridor:** passes through the North Region of the country (in an East-West direction) along the waterways of the Amazonas and Solimões rivers, with endpoints in Santana, AP and Tabatinga, AM (at the Brazilian border with Colombia and Peru). During its course, it passes through Santarém, PA and Manaus, AM.
- 5) **Central-North Corridor:** passes through the Central-West and North Regions, ending along the border between the municipalities of Guaíra, PR and Mundo Novo, MS and in Santarém, PA. The corridor starts at the border between PR/MS and follows BR-163 to Itaituba, PA, passing through Campo Grande, MS and Cuiabá, MT. In Itaituba, PA, a section of BR-230 is used to access the Tapajós River waterway, where the corridor continues to Santarém, PA.












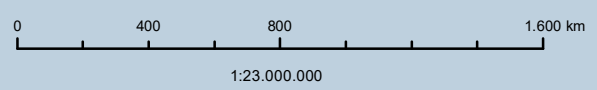
- 6) North-Southeast Corridor:** connects the North, Central-West and Southeast Regions, with endpoints in Itacoatiara, AM and Santos, SP. The corridor's route begins in Itacoatiara, AM and follows the Madeira River waterway to Porto Velho, RO. From Porto Velho, RO the corridor continues along highways BR-364, BR-174 and BR-070, passing through Cuiabá, MT until Alto Araguaia, MT. Then, it continues via the Rumo Malha Norte (RMN), Rumo Malha Paulista (RMP) and MRS Logística (MRS) railways through the city of São Paulo, SP, eventually reaching Santos, SP.
- 7) East-West Corridor:** connects the Northeast, Central-West and North Regions, with endpoints in Salvador, BA and Cruzeiro do Sul, AC. The corridor begins with road transportation in Salvador, BA and follows highways BR-324, BR-116 and BR- 242 to Luís Eduardo Magalhães, BA. From Luís Eduardo Magalhães, BA, the corridor follows BR-020 until reaching Brasília, DF, where it continues along BR- 070 until Cuiabá, MT. From Cuiabá, MT, the corridor runs along a short stretch of BR-163, continuing along BR-364 and BR-435 to Pimenteiras do Oeste, RO. It then follows the waterways of the Guaporé, Mamoré and Madeira rivers to Porto Velho, RO (in Abunã District). The final stretch of the corridor includes BR-364 and BR-307 again to Cruzeiro do Sul, AC.
- 8) Northeast-Southeast Corridor:** connects the Northeast and Southeast Regions, with endpoints in São Luís, MA and Rio de Janeiro, RJ. In its initial section, it uses the Transnordestina Logística Railway (FTL) network from São Luís, MA to Teresina, PI. From Teresina, PI, the corridor runs along highways BR-316 and BR-407 to the border between the municipalities of Petrolina, PE and Juazeiro, BA, from which it continues along the São Francisco River waterway to Pirapora, MG. Finally, the corridor reaches the city of Rio de Janeiro, RJ through the Centro- Atlântica (FCA) and MRS Logística (MRS) railways.
- 9) Cabotage Corridor:** connects the main Brazilian seaports via existing or potential cabotage navigation routes from Santana, AP to Rio Grande, RS.

Figure 6 - Structural Corridors



**LEGENDA**

-  Eixo Nordeste-Sul (E1)
-  Eixo Litorâneo (E2)
-  Eixo Norte-Sul (E3)
-  Eixo Amazônico (E4)
-  Eixo Centro-Norte (E5)
-  Eixo Norte-Sudeste (E6)
-  Eixo Leste-Oeste (E7)
-  Eixo Nordeste-Sudeste (E8)
-  Eixo de Cabotagem (E9)



All National Integration Projects have been allocated to the Structural Corridors and classified as part of the main route of these corridors or as complementary links. Given the logic of the continuity of the Structural Corridors, projects that spanned more than one state were subdivided by state. There are exceptions in some interventions along watercourses that run along the borders of states, and therefore could not be subdivided. These projects, referred to as “Integrated”, make up the waterway and road infrastructure (bridges).

### 4.1.1 TYPES OF INFRASTRUCTURE PROPOSED

The National Integration Project proposals contained in this CNT Plan are broken down according to the following infrastructures: airport, railway, waterway, port, road and terminal. These include interventions for building new infrastructure (or new sections of this infrastructure) or upgrading existing infrastructure (proposals for improvement, restoration, modernization, etc.). Considering the infrastructure and the type of intervention, the proposals are presented in a subdivided manner, as well as in “categories”, according to the works considered. This classification, which includes infrastructures, types of intervention and categories as well as their specific works and descriptions is presented in Table 1.

Table 1 - Types of Interventions Proposed for National Integration Projects

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Airport	Adjustment	Airport adjustment	Expansion and/or adjustment of airport infrastructure	Restoration, expansion and/or modernization of cargo and/or passenger freight terminal, runway, taxiway, aircraft yards and control tower, among other airport buildings.
	Construction	Airport construction	Construction of new airport or new airport terminal	Obtaining of facility area, execution of works and acquisition of equipment for full operation of: runway, taxiway, aircraft yards, cargo and/or passenger freight terminal, control tower and support facilities (hangars), fuel areas, etc.
Rail	Rail Adjustment	Elimination of bottlenecks	Removal of right of way intrusions and/or removal of level crossing	Expropriation and/or removal of right of way intrusions on the railway and resettlement of occupants.
				Construction of crossings (overhead and underground passages), fences and/or pedestrian walkways to eliminate level crossing
		Railway duplication	Duplication of rail route	Earthworks and drainage services and implementation of new infrastructures and superstructures for the construction of a new branch line (parallel or not to existing one). May also include the construction of stations, rail yards and terminals.
	Adjustment	Railway restoration	Restoration and/or modernization of railway	Replacement of permanent lane material (ballast, ties and/or tracks), infrastructure adjustments and restoration of drainage devices; may also include the restoration of stations, rail yards and terminals.  Implementation of operating systems.

Table 1 - Types of Interventions Proposed for National Integration Projects

continuation

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Rail	Construction	Railway construction	Construction of new railway section	Obtaining of right of way, execution of earthworks, drainage, infrastructure, superstructure, special engineering projects (bridges and overpasses), installation of railway signaling and implementation of Operations Control Center (CCO) and power transmission systems etc.; may also include the construction of stations, rail yards and terminals.
		Construction of HSR	Construction of railway network for High Speed Train (HSR) operation	Obtaining of right of way, execution of earthworks, drainage, infrastructure, superstructure, special engineering projects (bridges, overpasses and tunnels), installation of railway signs and implementation of Operations Control Center (CCO) and energy transmission systems, etc.; may also include the construction of stations for passenger boarding and disembarking and switchyards.
Waterway	Adjustment	Waterway adjustment	Rock removal, dredging, signaling and/or beacon installation in waterway	Removal of rock masses and/or dredging of disintegrable granular material to increase depth or re-establish authorized channel height.  Installation of visual nautical signals (fixed or floating) and/or beacons, buoys and lighthouses for signaling and orientation of the waterway.
		Lock	Construction and/or adjustment of lock	Construction, expansion and/or modernization of mechanical devices (vertical elevators, slopes or hydraulic ramps) or hydraulic devices (sluices) for water level control.
	Construction	Channel opening	Rock removal and/or dredging for channel opening for navigation or artificial channel construction	Removal of rock masses, dredging of disintegrable granular material in a natural riverbed or artificial channel construction, ensuring the minimum water depth required for navigation; may also include installation of visual nautical signals (fixed or floating) and/or beacons, buoys and lighthouses for signaling and orientation of the waterway.
Port	Adjustment	Land access to port	Restoration, adjustment and/or construction of land access	Restoration, adjustment and/or construction of rail or road sections for access to port areas.
		Port area	Expansion and/or adjustment of port area	Restoration, expansion, construction and/or modernization of moles, breakwaters, piers (including structural reinforcements), dolphins, berths, storage areas, switchyards, logistic support areas (classification yards), and equipment installation several.  Adjustment of port terminals.
	Waterway access to port		Rock removal and/or dredging of maritime access channel, pier and/or berth access	Removal and/or dredging to expand and/or restore depth to the anchoring area, maritime port access channel, access to the dock and/or mooring berth.
				Installation of visual nautical signals (fixed or floating) and/or beacons, buoys and lighthouses for signaling and orientation of the waterway.
Construction	Port construction	Construction of new port or new port terminal	Obtaining of facility area and execution of works and acquisition of equipment for the full operation of: terminals, berths, docks, storage and stocking areas, administrative facilities, switchyards, cargo handling and port monitoring equipment; may also include the construction of waterway and/or land access.	

Table 1 - Types of Interventions Proposed for National Integration Projects

continuation

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Road	Adjustment	Road duplication	Road duplication	Earthworks (cutting and embedding), drainage, paving and sign installation services to convert single lane two-way road into a double lane road; can include obtaining corresponding right of way area.
		Road adjustment	Implementation of additional passing lane or increase of the number of lanes, implementation of signs or implementation and/or restoration of special engineering works	Earthworks (cutting and embankment), drainage and paving services for the implementation of additional passing lane or increase of the number of traffic lanes.
				Implementation of horizontal and/or vertical signs.
				Construction and/or restoration of special engineering works (bridges, viaducts, etc.).
	Restoration of pavement	Restoration of pavement on road	Execution of milling of damaged pavement, repair of damaged base and application of coating in traffic lane and/or shoulder.	
	Construction	Road construction	Construction of new section of road	Obtaining of right of way of a planned and/or natural road, execution of earthworks, drainage and paving services and installation of horizontal and vertical signs; may also include the construction of special engineering works.
Road paving		Road section paving	Execution of paving service on an already established road, including the construction of drainage devices and the installation of horizontal and vertical signs.	
Terminal	Adjustment	Terminal adjustment	Expansion and/or adjustment of passenger or cargo terminal	Execution of civil works for terminal expansion and/or adjustment of cargo or passenger terminal structure (road, rail, waterway and/or intermodal) and implementation of equipment including storage facilities.
	Construction	Terminal construction	Construction of new passenger or cargo terminal or construction of parking structure for cargo vehicles	Obtaining of area for the implementation of the enterprise, execution of earthworks services, drainage, construction of building for cargo storage, passenger service and/or administrative support, paving, construction of access roads (highways, railways and/or waterways), implementation of signs and installation of various equipment.

The pages that follow detail the characteristics of the proposed interventions for the different projects according to the infrastructure considered.

#### 4.1.1.1 AIRPORT PROJECTS

Adjustment projects for airport infrastructure aim to meet the improvement and expansion needs of existing airports, given high levels of saturation and/or low levels of service, and/or to keep up with the growing demand for air transportation. Therefore, it seeks to respond to the current needs and potential expansion of air cargo and passenger transport in each region.

These projects are grouped into the following category:

- **airport adjustment: expansion and/or restoration of airport passenger terminal, airport cargo terminal and/or aerodrome; implementation, expansion and/or restoration of runway, patio, fuel area and/or road system and/or internal access; and/or implementation and/or modernization of safety equipment and/or systems.**

The projects proposing construction of airport infrastructures, in turn, are intended to meet the needs of existing or potential demand – that justify investment – and nonexistent airport infrastructure, or locations with existing airport infrastructure characterized by high levels of saturation and low service levels for cargo and/or passenger handling and with no possibility of expansion.

Construction projects fall into the following category:

- **construction of airport: construction of a new cargo and/or passenger airport, a new cargo and/or passenger airport terminal and/or a new aerodrome.**

#### 4.1.1.2 RAIL PROJECTS

The projects proposed for the adjustment of railway infrastructure include interventions aimed at adapting the railway and its surroundings for the elimination of existing conflicts (especially in urban areas) and for the improvement and restoration of old sections, modernization of operating systems, expansion of capacity of existing routes and/or separation of cargo and passenger flows.

The railroad adjustment projects cover the following categories and interventions:

- **elimination of bottlenecks: removal of right of way intrusion and/or removal of level crossing;**
- **railway duplication: duplication (construction of a new branch line, parallel or not to the existing one) of railway or railway section;**
- **railway restoration: restoration and/or remodeling of railway and/or implementation and/or modernization of rail operating system.**

The projects for the construction of rail infrastructures aim to expand the national rail network in response to new demands for this mode of transport. The categories considered were:

- **railway construction: construction of new railway or new section, bypass or branch line;**
- **HSR construction: construction of railway network for High Speed Train (HSR) operation.**

#### 4.1.1.3 WATERWAY PROJECTS

The waterway adjustment projects include the improvement and expansion of navigation conditions in rivers, lakes and lagoons already used by waterways, or with potential for future use by reducing or eliminating restrictions on vessel traffic and enabling the leveling of obstacles such as artificial dams. Through these interventions, the projects aim to make the movement of cargo and passengers along inland waterways faster, safer and more efficient.

The proposals for waterway infrastructure adaptation projects include the following categories:

- **waterway adjustment: dredging and/or rock removal, grubbing and/or removal of obstacles, signaling and/or beacon installation on navigable (or potentially navigable) waterways; implementation of safety system and/or control of waterway traffic; and/or widening of spans and/or protection of bridge pillars;**
- **lock: construction, expansion, duplication and/or modernization of lock and/or construction of garage/waiting area in existing lock.**

On the other hand, waterway construction projects are related to the opening of navigation channels in non-navigable areas, creating new waterways and favoring the use of this mode of transport in Brazil. The waterway construction projects include:

- **channel opening: dredging and/or rock removal for opening of navigation channel and/or artificial navigation channel construction.**

#### 4.1.1.4 PORT PROJECTS

The proposals for port infrastructure adjustment include interventions on land and water access areas and in port areas of the country's major seaports<sup>53</sup> in order to improve the

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<sup>53</sup> The classification as sea, river and lake ports comes from Antaq, as previously specified in Chapter 3 of this report.



logistics performance of these facilities and to adequately meet current and future demand for cargo and passenger transportation.

Port adjustment projects were classified according to the nature and purpose of the works into the following:

- land access to port: construction and/or paving, adjustment and/or restoration of road access and/or construction, adjustment and/or restoration of rail access;
- port area: construction, expansion and/or adjustment of mooring structure, containment structure, back-up area, port back-up area, storage structure and/or logistics and customs support area; revitalization of port area; expansion of cargo and/or passenger port terminal; implementation and/or modernization of port equipment; and/or adjustment of loading structure for passenger transportation;
- waterway access to port: dredging and/or rock removal, signaling and/or beacon installation in access channel, anchoring area, turning basin and/or mooring berth.

Construction projects, in turn, relate to the implementation of new port infrastructures in places where this type of installation does not exist and/or in places with ports with insufficient capacity and/or demand for the transportation of new products. These are grouped into the following category:

- port construction: construction of a new port and/or a new cargo and/or passenger port terminal in an existing port.

#### 4.1.1.5 ROAD PROJECTS

Projects related to the adjustment of road infrastructure correspond to a set of interventions aimed at increasing traffic capacity, reducing travel times and operating costs of vehicles and increasing road safety conditions. These projects are classified into:

- highway duplication: highway or road section duplication (conversion of single lane two-way road into double lane);
- highway adjustment: implementation of additional passing lane; expansion of the number of highway traffic lanes; installation of horizontal and/or vertical signs; and/or construction, adjustment and/or restoration of engineering works on the highway;
- highway pavement restoration: restoration of the pavement on roadway and/or highway shoulder.

Road infrastructure construction interventions aim to expand the country's paved road network and include federal and state highways, which are divided into:

- **highway construction: construction of new road, ring road/beltway/bypass and/or side road;**
- **highway paving: paving of highway or road section (already implemented).**

As criteria for the selection of highways and/or sections of road for the proposal of adjustment interventions, the Average Daily Volume (ADV) data of vehicles and proportion of cargo vehicles in the ADV<sup>54</sup> were considered, alongside the characteristics and conditions of highway geometry, signs and pavement<sup>55</sup>. As such, for duplication projects the ADV and the proportion of cargo vehicles were considered; for additional lane implementation projects, the ADV, the proportion of cargo vehicles, the presence of undulating or hilly terrain and the absence of an additional lane<sup>56</sup> were considered; and for sign installation projects, the ADV and the condition of horizontal and vertical highway signs were considered.

The following are the cumulative selection criteria for road adjustment proposals, organized according to the categories of this CNT Transportation and Logistics Plan.

### **Road duplication**

- **Public<sup>57</sup>, state or federal single-lane highways.**
- **Highways with Average Daily Volume (ADV) greater than or equal to 3,000 vehicles and percentage of cargo vehicles greater than or equal to 50% of ADV OR highways with ADV greater than 5,000 vehicles.**

### **Road adjustment**

#### *Implementation of additional lane*

- **Public<sup>58</sup>, state or federal single-lane highways.**

54 The data on ADV and the proportion of cargo vehicles in the ADV come from a survey and modeling by the National Department of Transport Infrastructure (DNIT), presented within the scope of the National Traffic Census Plan, using December 2016 as a reference.

55 Data from CNT Highway Survey 2017.

56 These criteria are justified by the fact that the formation of heavy vehicle convoys on steep hills reduces the service level of the highway and contributes to the occurrence of accidents in attempts to pass without visibility.

57 Or concession-granted road sections in which the duplication is not considered within the contractual obligations of the concessionaire but that are in accordance with the criteria considered in the CNT Plan

58 Or concession-granted road sections in which the implementation of additional lanes (or alternatively, the duplication) is not considered within the contractual obligations of the concessionaire but are in accordance with the criteria considered in the CNT Plan.

- Highways that have unfavorable geometric features (road sections with undulating or hilly terrain and no additional lanes<sup>59</sup>).
- Highways with Average Daily Volume (ADV) greater than or equal to 3,000 vehicles and percentage of cargo vehicles below 50% of ADV OR highways with ADV less than 3,000 vehicles and percentage of cargo vehicles above 50% of ADV OR highways with ADV between 1,000 and 3,000 vehicles and percentage of cargo vehicles between 25% and 50% of ADV.

#### *Implementation of signs*

- State or federal public highways.
- Roads with horizontal and/or vertical signs in inadequate condition<sup>60</sup> in a proportion greater than or equal to 25% and less than 50% of the sections of the CNT Highways Survey and Average Daily Volume (ADV) of 2017, greater than 3,000 vehicles OR roads with horizontal and/or vertical signs in inadequate condition in a proportion greater than or equal to 50% of the sections of the CNT Road Survey of 2017 (regardless of the average daily volume of vehicles).

#### *Restoration of pavement*

- State or federal public highways.
- Roads with pavement rated as bad or very poor in the CNT Road Survey of 2017 OR roads with pavement rated as fair, bad or very poor in the CNT Road Survey of 2017 and a percentage of cargo vehicles greater than or equal to 25% of the Average Daily Volume (ADV).

In terms of road construction projects, the relevance criteria of road connections for interand intraregional travel and their classification in the National Road System (SNV) were considered<sup>61</sup>, as summarized below.

#### **Road construction**

- Planned or natural roads that have the important function of connecting population centers or tourist attractions in areas of low density road infrastructures.

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59 CNT Highways Survey Data of 2017.

60 Road sign conditions considered in the assessment include, for horizontal signs, the painting of the central and side strips and, for vertical signaling, the visibility and legibility of the signs.

61 The classification of the road sections was considered according to information from the January 2018 edition of the SNV.

## Road paving

- Implemented roads with great regional and micro-regional representation with significant potential to reduce travel times between tourist attractions.

### 4.1.1.6 TERMINAL PROJECTS

Proposals for terminal projects refer to infrastructure interventions complementary to transport modes in which either transshipment and/or cargo storage or the integration of passenger transport systems is carried out. The adjustment interventions aim to expand the capacity of existing terminals and/or adapt these structures to multimodal format, with efficient interface between the different modes of transport. The terminals can be highway, railway, waterway or multimodal.

Terminal adjustment interventions fall into the following category:

- **terminal adjustment: expansion and/or adjustment of cargo terminal, intermodal cargo terminal, mixed-use terminal (cargo and passenger), passenger terminal, logistics platform, distribution center and/or dry dock.**

Terminal construction interventions include the implementation of new highway, railway, waterway or multimodal (cargo and/or passenger) terminals, as well as the construction of parking lots for cargo vehicles. Such parking facilities provide an adequate stopping and rest place for drivers of cargo vehicles arriving in the outskirts of large urban centers to wait for the end of times when traffic on central roads is prohibited – for urban deliveries – and/or for access to other transport infrastructure such as ports. Terminal construction interventions are grouped into the following category:

terminal construction: construction of cargo terminal, intermodal cargo terminal, mixed-use terminal (cargo and passenger), passenger terminal, logistics platform, distribution center, dry dock and parking lot for cargo vehicles.

## 4.2 URBAN PROJECTS

Urban Projects of the CNT Transportation and Logistics Plan include interventions in urban and metropolitan contexts. The proposals aim to reduce travel times between the main attractions and centers of travel located in urban centers and to improve the conditions of transportation, comfort and safety in the daily movement of people and goods.

The urban projects are based on the outlining of Metropolitan Regions (MRs), Conurbations and Integrated Development Regions (IDRs)<sup>62</sup>, which due to the economic, social and territorial interdependence between their municipalities, require a logic of network operation for their transportation systems. Although these breakdowns have heterogeneous structures – composed of municipalities of different urban and social patterns – there is a high degree of integration and the existence of cross-circulation corridors between the municipalities. The proposals for these regions seek to streamline transport systems with the use of common infrastructure for mass transit and an emphasis on intermodal integration.

The CNT Transportation and Logistics Plan includes the 20 main Metropolitan Regions (MRs) and Integrated Development Regions (IDRs) with more than one million inhabitants<sup>63</sup> and covers the state capitals in the country's five regions. These regions are:

- MR of São Paulo (SP);
- MR of Rio de Janeiro (RJ);
- MR of Belo Horizonte (MG);
- IDR of the Federal District and Surrounding Areas (GO, DF and MG);
- MR of Porto Alegre (RS);
- MR of Fortaleza (CE);
- MR of Salvador (BA);
- MR of Recife (PE);
- MR of Curitiba (PR);
- MR of Manaus (AM);
- MR of Goiânia (GO);
- MR of Belém (PA);
- MR of Greater Vitória (ES);

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62 Metropolitan Regions (MRs), Conurbations and Integrated Development Regions (IDRs) were considered, as well as the municipalities that compose them, according to information from the Brazilian Institute of Geography and Statistics (IBGE), June/2017.

63 Data from IBGE 2017 population estimates

- MR of Greater São Luís (MA);
- MR of Natal (RN);
- MR of Maceió (AL);
- MR of João Pessoa (PB);
- IDR of Greater Teresina (MA and PI);
- MR of Florianópolis (SC);
- MR of Cuiabá River Valley (MT).

The proposals of this CNT Plan also cover interventions in 21 other metropolitan groupings<sup>64</sup> which do not fit into the population and/or capital criteria described above. These proposals seek the same objectives of creation and/or streamlining of integrated transport networks. The other groupings included are as follows: Conurbations of Jundiaí (SP), Piracicaba (SP) and Piracicaba do Sul (RS), IDR of Polo Petrolina, PE and Juazeiro, BA (PE and BA), MRs of Aracaju (SE), Baixada Santista (SP), Campinas (SP), the Capital (RR), Serra Gaucha (RS), Sorocaba (SP), Paraíba Valley and North Coast (SP), Feira de Santana (BA), Foz do Rio Itajaí (SC), Londrina (PR), Macapá (AP), Maringá (PR), North/Northeast Santa Catarina (SC), Palmas (TO), Ribeirão Preto (SP), Itajaí Valley (SC) and Porto Velho (RO).

The metropolitan groupings included with the proposals of the CNT Plan are presented in Figure 7.

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64 The term "metropolitan groupings" is used in this report to refer to the set of MRs, IDRs, and/or Conurbations.





Finally, there are also projects located outside MRs, IDRs or Conurbations in medium-sized urban centers that exert some influence on other cities, either in the same state or in neighboring states.

### 4.2.1 TYPES OF INTERVENTIONS PROPOSED

The Urban Projects that make up the CNT Transportation and Logistics Plan are organized according to the infrastructure they include: waterway, rail, road and terminal. The proposals comprise interventions for both the construction of new structures and the adjustment of existing structures and are classified into categories that reflect the works involved and the characteristics of the project to be implemented, as specified in Table 2.

Table 2 - Types of Interventions Proposed for Urban Projects

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Waterway	Adjustment	Vessel acquisition and improvement <sup>1</sup>	Acquisition and/or refurbishment of vessels	Purchase of the most modern vessels and/or refurbishment of vessels in use to improve passenger comfort and safety and increase navigation speed.
	Construction	Implementation of waterway transportation corridor	Implementation of waterway transportation corridor	Removal of rock masses, dredging of disintegrable granular material in a natural riverbed or construction of an artificial channel, ensuring the minimum water depth required for navigation; can also include signaling and beacon installation of the waterway.  Conducting of expropriations, earthworks, drainage and re-urbanization, mooring infrastructure, customer service and administrative support buildings, signaling installation and acquisition of various equipment.
Rail	Adjustment	Acquisition and improvement of rolling stock	Purchase and/or refurbishment of passenger trains/cars	Purchase of the most modern trains and/or refurbishment of active trains to improve comfort and passenger safety and increase operating speed.
		Railway restoration	Restoration and/or modernization of railway	Replacement of tracks, adequacy of infrastructure, signaling, restoration of drainage devices and execution of re-urbanization works.  Implementation of operating systems.
				Railway electrification.

Table 2 - Types of Interventions Proposed for Urban Projects

continuation

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Rail	Construction	Construction of metro or urban train	Construction of new metro line or urban train or expansion of existing metro or urban/underground train line extension	Obtaining of right of way, including expropriation, execution of earthworks, drainage and reurbanization services, infrastructure and superstructure implementation (permanent network), construction of special engineering works, operational buildings, parking structures and switchyards and implementation of operating systems (energy, signaling and traffic control, data transmission and telecommunications, interface with circulation and signaling system, etc.); may also include the construction of passenger stations and terminals and the acquisition of rolling stock.
		Construction of monorail or LRT or atmospheric railway	Construction of new monorail line, Light Rail Vehicle (LRT) or atmospheric railway – Automated People Mover (APM) – or expansion of monorail, or LRT or existing atmospheric railway line extension	
Road	Adjustment	Duplication of urban road	Duplication of urban road	Conducting expropriations, performing earthworks (cutting and backfill), drainage, paving and signaling services in order to convert a single-lane two way road in to a double-lane road; may also include the construction of special engineering works (bridges, overpasses, walkways, etc.).
		Road paving	Restoration of urban road pavement and/or expansion of the number of lanes and/or implantation of signs and/or implementation and/or restoration of special engineering works	Execution of milling of damaged pavement, repair of damaged base and application of coating on urban road.
				Execution of earthworks, drainage and paving services to increase the number of traffic lanes.
				Implementation of horizontal and/or vertical signs.
Adjustment of express lane or BRT or RTM	Restoration and/or adjustment of express lane or Bus Rapid Transit (BRT) or Light Rail Vehicle (LRV)	Restoration and/or adjustment of traffic prioritization systems for urban public transport services (BRT, RTM, express lane, preferential lane, etc.), including: pavement restoration, restoration of vertical and horizontal signs and traffic lights, implementation and/or modernization of operating and/or passenger information systems.		
Construction	Urban road construction	Urban road construction or extension of existing urban road	Execution of expropriations, execution of earthmoving services, drainage, paving and horizontal and vertical signs; may also include the construction of special engineering works (bridges, overpasses, etc.)	

Table 2 - Types of Interventions Proposed for Urban Projects

continuation

Infrastructure	Intervention Type	Category	Specific works	Description of interventions
Road	Construction	Implementation of express lane or BRT or RTM	Implementation of express lane for bus, Bus Rapid Transit (BRT) or Light Rail Vehicle (LRV)	Adjustment of road infrastructure to prioritize the circulation of urban public transport services, including: paving, drainage, construction of bridges and overpasses, segregation of roads, implementation of vertical and horizontal signs and traffic lights and implementation of information systems for passengers; may also include the construction of shelters along the corridor.
Terminal	Adjustment	Bus station	Expansion and/or adjustment of passenger transportation passengers or bus platform	Execution of restoration works, expansion and/or modernization of elevated transport stations, underground, ground level or including bus platforms.
		Terminal adjustment	Expansion and/or adjustment of passenger terminal passengers	Execution of restoration works, expansion and/or modernization of passenger transportation terminal (road, rail, waterway or integration).
Terminal <sup>2</sup>	Construction	Station construction	Construction of passenger transport station or platform bus	Obtaining of area for the project (may include expropriations), execution of earthmoving, drainage, infrastructure and reurbanization works, construction of buildings and customer service areas, vehicle reception and administrative support, implementation of signs and acquisition of various equipment for operation
		Terminal construction	Passenger terminal construction	Obtaining of area for the project (which may include expropriations) and execution of civil works, including earthworks, drainage, building construction for passenger service and/or administrative support, paving, signaling and various equipment.

<sup>1</sup> In this version of the CNT Transportation and Logistics Plan no "vessel acquisition and improvement" projects were included; however, the category was preserved in the list of planned interventions for Urban Projects to maintain the history of the types of proposals and possible future inclusion of projects related to it.

<sup>2</sup> Bus platforms, stations and terminals are public transport vehicle stop infrastructures for passenger boarding and disembarking. While bus platforms have simpler facilities, specifically serving the processes of boarding and disembarking, terminals and stations generally have additional waiting areas, fare collection systems and user information systems, among others. Both (terminals and stations) allow passengers to make transfers between transport lines, but terminals are generally endpoints of most of these lines (same or different modes), also serving to "stockpile" vehicles.

The characteristics of the interventions proposed by type of transport infrastructure are as follows.

#### 4.2.1.1 WATERWAY PROJECTS

The proposed projects for the adjustment of urban waterway infrastructure (on sea and/or inland) essentially aim to increase the comfort and safety of users of this mode of transport through improvements in vessels used on transport corridors and/or through the addition of

new vessels with greater capacity vessels (both passengers and urban cargo) and navigation speed. These interventions are grouped into the following category:

- **acquisition and improvement of vessels: acquisition and/or refurbishment of urban waterway passenger and/or cargo vessels.**

Proposals for building urban waterway infrastructure projects, in turn, are related to the implementation of urban passenger and/or cargo transportation systems in locations with favorable characteristics and potential demand, but where these systems currently do not exist. It is worth mentioning that waterway corridors represent alternatives for the movement of people and urban cargo, complementing the road and metro transportation systems in addition to being associated with tourism and ecological activities. As such, the proposed interventions fall into the following category:

- **waterway corridor implementation: implementation of urban waterway passenger and/or cargo corridor.**

#### 4.2.1.2 RAIL PROJECTS

Urban rail infrastructure adjustment projects include interventions aimed at improving the comfort and safety of passengers and increasing the operation speed of existing railway passenger transport systems in the country. The projects include interventions on the railway routes, vehicles (trains) and their operating systems, and are classified according to the following categories:

- **acquisition and improvement of rolling stock: acquisition and/or refurbishment of trains/passenger cars;**
- **railway restoration: railway recovery, remodeling and/or revitalization and/or implementation or modernization of operating systems.**

Construction projects, on the other hand, are aimed at the implementation of rail passenger transport systems – characterized by high reliability and high transport capacity – where they do not exist or their expansion in locations with existing and/or expected demand, contributing to the improvement of accessibility, transportation and quality of life of the populace. These projects consider the following categories, directly related to the type and characteristics of the system to be implemented<sup>65</sup>:

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<sup>65</sup> It should be noted that the classification of projects according to the type of rail passenger transport system (metro, urban train LRT, monorail, etc.) considered the denomination indicated in these sources for proposals from external sources.

- construction of metro or urban train: construction of new metro or urban/metropolitan train line and/or expansion of existing line extension;
- monorail or LRT or atmospheric railway construction: construction of new monorail, LRT or atmospheric railway and/or expansion of existing line extension.

#### 4.2.1.3 ROAD PROJECTS

Interventions related to the adjustment of road infrastructure include on one hand the improvement and expansion of the capacity of existing urban roads, seeking most notably to better serve the flow of vehicles in circulation in the major cities of the country. On the other hand, they include the improvement of Bus Rapid Transit (BRT) Rubber-Tired Metro (RTM), Bus Rapid System (BRS), of corridors and preferential lanes, through the implementation or modernization of operating systems, pavement restoration and the adjustment of signs on these structures, among other interventions.

The urban road infrastructure adjustment projects are allocated to the following categories:

- urban road duplication: urban road duplication or urban road stretch duplication (conversion of single lane two-way roads into double lane);
- adjustment of urban road: pavement restoration; increase in number of lanes; implementation of horizontal and/or vertical signs; construction, expansion and/or restoration of engineering works; implementation, expansion and/or improvement of intersections; and/or urban road rehabilitation and/or re-qualification;
- adjustment of express lane or BRT or RTM: restoration and/or adjustment of preferential bus lane, preferential lanes, BRT, RTM or BRS and/or implementation or modernization of operating systems.

Road infrastructure construction interventions include the implementation of new urban roads and the extension of existing urban roads in locations of high vehicle flow (existing or potential) with the objective of unburdening the road system and/or creating new travel alternatives. It also includes the implementation and/or expansion of systems that prioritize public transportation (BRT, RTM, preferential lanes and their variations)<sup>66</sup>, thus allowing a more efficient and agile bus circulation and resulting in faster, safer and more comfortable travel.

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<sup>66</sup> It should be noted that classification of the projects according to the type of bus public transport prioritization system (BRT, BRS, preferential lane, etc.) included the denomination indicated in these sources for proposals from external sources.

The urban road infrastructure construction projects are grouped into the following categories:

- **urban road construction:** urban road and/or side road construction or paving;
- **implementation of express lane or BRT or RTM:** implementation of BRS, BRT, exclusive bus lane, RTM and/or preferential lanes.

#### 4.2.1.4 TERMINAL PROJECTS

Urban terminal projects include stations, platforms and terminals (road, rail, waterway and integration) for the boarding and disembarking passengers<sup>67</sup>. Adjustment interventions for these structures aim to improve the level of service offered to users and/or adapt existing terminals to become points of integration with other urban modes of transportation. The interventions include:

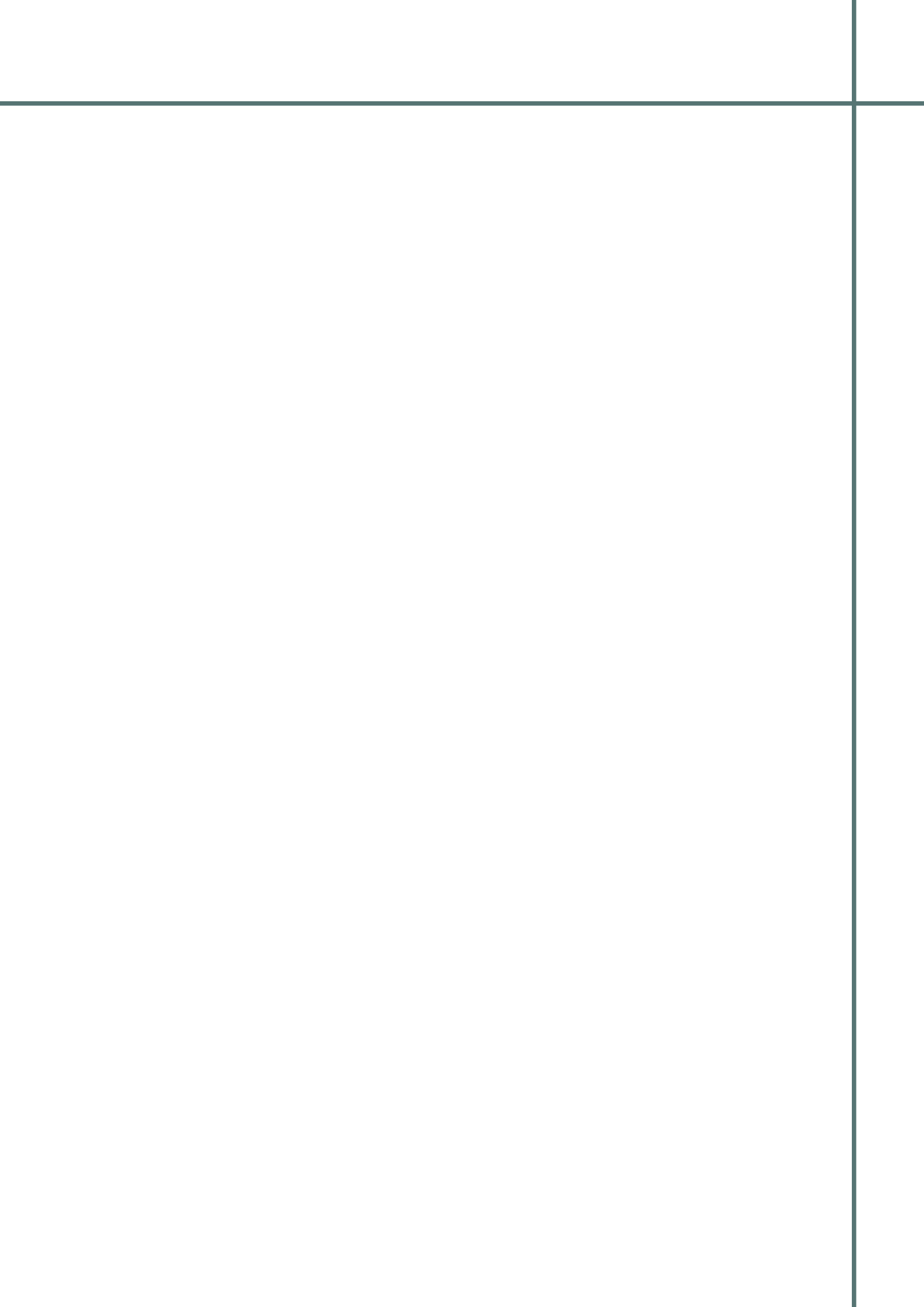
- **station adjustment:** expansion and/or adjustment of underground metro station, above ground metro station, elevated metro station and/or bus, BRT and/or RTM station/platform;
- **terminal adjustment:** expansion and/or adjustment of passenger terminal and/or passenger terminal for integration.

The terminal construction projects, in turn, include the implementation of these infrastructures for the connection of conventional public transport lines and/or for integration of the different existing or proposed modes of transport (road, metro and/or waterway), improving the organization of “urban transport systems”. These projects are subdivided into the following categories:

- **station construction:** construction of underground metro station, above ground metro station, elevated metro station and/or bus, BRT and/or RTM station/platform;
- **terminal construction:** construction of urban passenger terminal and/or passenger terminal for integration.

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<sup>67</sup> Bus platforms, stations and terminals are public transport infrastructures where vehicle stop to allow for passenger boarding and disembarking. While bus platforms have simpler facilities, specifically serving the processes of boarding and disembarking, terminals and stations generally have additional waiting areas, fare collection systems and user information systems, among others. Both (terminals and stations) allow passengers to make transfers between transport lines, but terminals are generally endpoints of most of these lines (same or different modes), also serving to “stockpile” vehicles.





05



# NATIONAL INTEGRATION PROJECTS

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Use the **QR CODE**  
above to access the  
contents of **National  
Integration Projects**





As described in the previous chapter, National Integration Projects comprise interventions along transportation corridors, referred to as Structural Corridors, and their complementary links, which facilitate the distribution of movement from the main route to other parts of the country.

Based on this principle, this chapter presents the list of projects of the CNT Transport and Logistics Plan segmented by corridor. It should be noted that each project was allocated under only its main Structural Corridor, even if it is related to other transportation corridors. The chapter is organized into nine sections, one for each Structural Corridor, per the following:

- description and graphic representation of the Structural Corridor's route;
- presentation of projects in summary tables indicating the intervention infrastructure, category, project identification number<sup>68</sup>, title, location (municipalities and initial and final states) and scale;
- an estimate of total minimum investment in the corridor, by infrastructure and intervention category. It should be noted that the figures presented do not necessarily represent the final costs of the proposals or executive projects, but rather the minimum investments necessary for the implementation of an infrastructure compatible with the description presented.

In this way, the sections that follow present the Structural Corridors and the list of projects allocated to them. The total sum of interventions in all corridors represents 2,343 projects identified by CNT as necessary given the existing and expected demands for the country's transportation sector.

## 5.1 NORTHEAST-SOUTH CORRIDOR (E1)

The Northeast-South Corridor begins in Fortaleza, CE and crosses the country lengthwise, passing through the Northeast, Southeast and South Regions and ending in Rio Grande, RS.

In Fortaleza, CE, the corridor begins at highway BR-116, which allows access to the Port of Mucuripe (or Port of Fortaleza). The Northeast-South Corridor progresses along this highway from Fortaleza, CE to Feira de Santana, BA, crossing the states of Paraíba and Pernambuco before reaching Bahia. A noteworthy location along this route is the municipality of Salgueiro, PE which, following the completion of the Nova Transnordestina Railway, will be established as a strategic logistics center for the country, since it will serve as the junction of the rail branch lines.

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<sup>68</sup> "Integrated" projects that serve multiple states due to their location in watercourses at the border of more than one state are identified in the tables with the abbreviation "-INT" next to their identification number.

Which connects it to São Gonçalo do Amarante, CE, Ipojuca, PE<sup>69</sup>, and Eliseu Martins, PI. Salgueiro, PE is also positioned at the intersection of BR-116 and BR-232, which enables access to BR-101 (on the Coastal Corridor - E2), and is a similar distance away from each of the main capital cities of the country's Northeast Region.

From Feira de Santana, BA, the Northeast-South Corridor follows a rail route still in planning, which in the future will link Feira de Santana, BA to the Centro-Atlântica Railway network (FCA) in Conceição da Feira, BA. From Conceição da Feira, BA, the corridor follows the FCA network to Belo Horizonte, MG, which serves as an important logistics center at the national level and is an interconnection point of road and rail networks linking the capital of Minas Gerais to the country's main urban centers and ports.

In Belo Horizonte, MG, the corridor becomes road-based, following BR-381 to the city of São Paulo, SP, thereby connecting two of the country's main state capitals. From São Paulo, SP, it continues along BR-374 to Boituva, SP, running along the José Sartorelli access road to Iperó, SP and the Rumo Malha Sul railway (RMO) to Irati, PR. From Irati, PR, the corridor returns to road transport via BR-153 and BR-476 to the border between Paraná and Santa Catarina (União da Vitória, PR and Porto União, SC). There, it continues exclusively by rail (again through the RMO network) to the Port of Rio Grande, in the municipality of Rio Grande, RS – one of the five main organized ports in the country in terms of movement, as aforementioned in Chapter 3 of this report.

On its main route, the Northeast-South Corridor (E1) merges with the Coastal Corridor (E2) in Ceará, between Fortaleza, CE and Beberibe, CE (in Boqueirão do Cesário, CE), and in the city of São Paulo, SP; with the North-Southeast Corridor (E6) in the city of São Paulo, SP; with the East-West Corridor (E7) in Feira de Santana, BA; with the Northeast-Southeast Corridor (E8) in Minas Gerais between Corinto, MG and Belo Horizonte, MG; and with the Cabotage Corridor (E9) in the Port of Rio Grande and via access to the Port of Mucuripe in Fortaleza, CE.

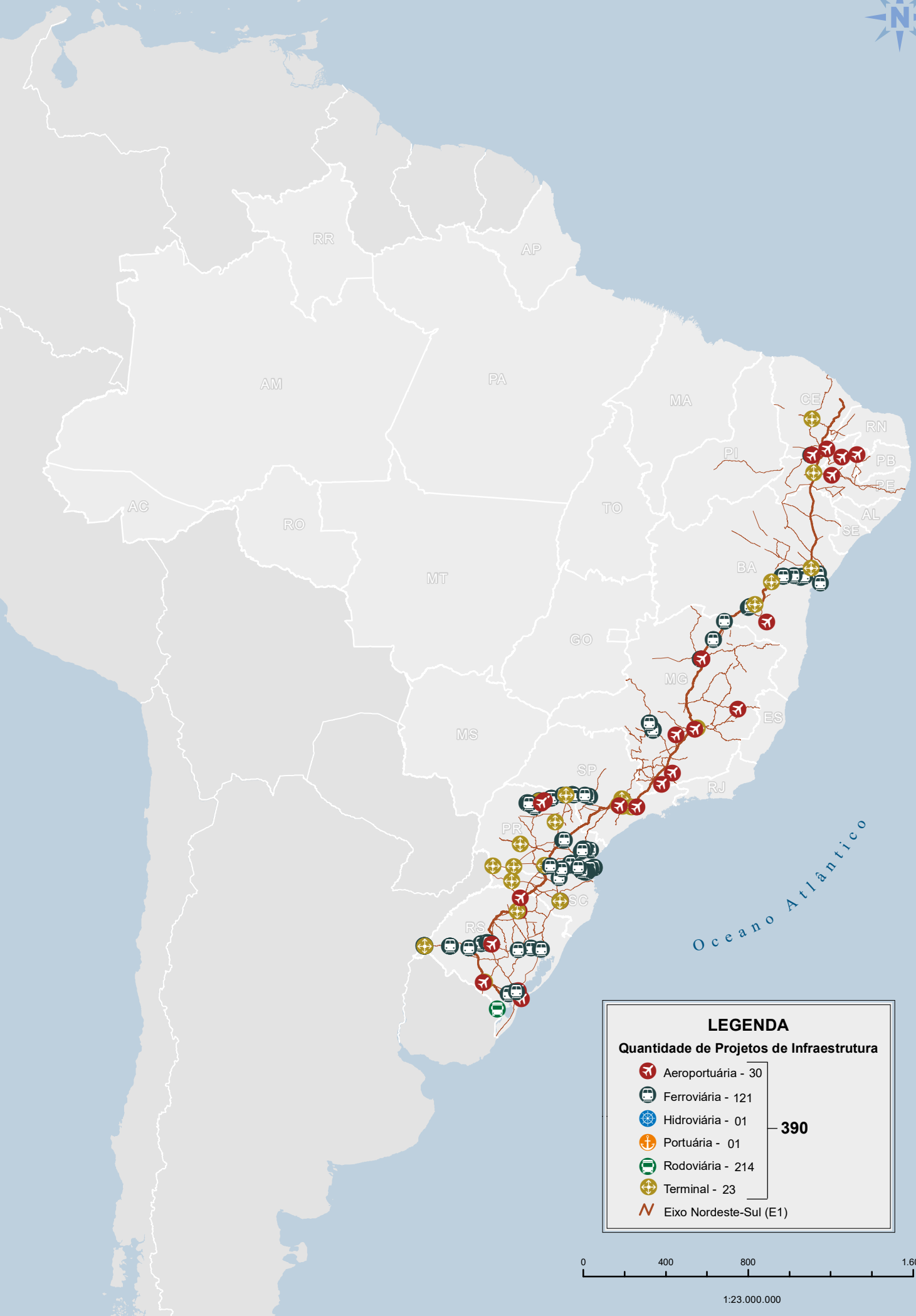
The path of the Northeast-South Structural Corridor (E1) is shown in Figure 8, along with a simplified representation of the projects that compose it.

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69 The ports of Pecém and Suape are located in the municipalities of São Gonçalo do Amarante, CE and Ipojuca, PE, respectively.



Figure 8 - Northeast-South Corridor (E1)



**LEGENDA**

**Quantidade de Projetos de Infraestrutura**

-  Aeroportuária - 30
-  Ferroviária - 121
-  Hidroviária - 01
-  Portuária - 01
-  Rodoviária - 214
-  Terminal - 23
-  Eixo Nordeste-Sul (E1)

**390**

0 400 800 1.600 km

1:23.000.000

### 5.1.1 NORTHEAST-SOUTH CORRIDOR (E1) PROJECTS

The primary projects that make up the Northeast-South Structural Corridor (E1) along its main route are road and rail interventions. In relation to highway projects, worthy of note are the duplication and adjustment of stretches of BR-116 in the Northeast Region, the construction of the remaining bypasses of the Belo Horizonte, MG, Ring Road, the completion of the North São Paulo, SP, Ring Road and the duplication of BR-153 in Paraná. Concerning railways, notable projects include the construction of the rail link between Feira de Santana, BA and Conceição da Feira, BA, the construction of rail bypasses in Bahia, Minas Gerais and Rio Grande do Sul, and the elimination of bottlenecks (right of way intrusions and level crossings) at various points along the network used by the Northeast-South Corridor. Terminals are also proposed in Bahia, Paraná and Rio Grande do Sul to provide multimodal transport.

In relation to complementary links – infrastructure that connects the corridor to other points in the country – projects of note include the construction of the Nova Transnordestina Railway in the Northeast Region, the High-Speed Rail (HSR) from Belo Horizonte, MG to Curitiba, PR and the Santa Catarina Rail Corridor in the rail segment. Additionally, other noteworthy projects include interventions aimed at the construction and adjustment of BR- 153 road in the South region of the country, BR-226 road in the Northeast region and BR-251 and BR-381 roads in Minas Gerais. With regard to BR-381, of particular note is the duplication of the stretch between Governador Valadares, MG and Belo Horizonte, MG, an important part of the connection between the capital of Minas Gerais, northern Espírito Santo and southern Bahia. Also noteworthy is the construction of six new airports (in Pernambuco, Paraíba, Bahia, Minas Gerais and Paraná) and the adjustment of eighteen others along the corridor, with greater emphasis on the airports of Juazeiro do Norte, CE and Montes Claros, MG, with three projects each.

Table 3 presents the projects proposed for the Northeast-South Corridor.





Table 3 - List of projects of the Northeast-South Corridor (E1)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0296	Expansion of Brigadeiro Cabral Airport in Divinópolis	1 un	Divinópolis, MG	Divinópolis, MG
		0622	Expansion of passenger terminal and runway and aircraft yard system at Governador José Richa Airport in Londrina	1 un	Londrina, PR	Londrina, PR
		1516	Expansion of Coronel Altino Machado Airport in Governador Valadares	1 un	Governador Valadares, MG	Governador Valadares, MG
		1533	Expansion of Lauro Kurtz Airport in Passo Fundo	1 un	Passo Fundo, RS	Passo Fundo, RS
		1534	Expansion of Rio Grande Regional Airport	1 un	Rio Grande, RS	Rio Grande, RS
		1558	Expansion of passenger terminal at Orlando Bezerra de Menezes Airport in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		1591	Expansion of Carlos Prates Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		1593	Expansion of Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
		1606	Implementation of security system at Pedro Vieira Moreira Aerodrome in Cajazeiras	1 un	Cajazeiras, PB	Cajazeiras, PB
		1609	Expansion of Peregrino Filho Airport in Patos	1 un	Patos, PB	Patos, PB
		1628	Expansion of Campo de Marte Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1635	Restoration of Correia Pinto Airport in Lages	1 un	Lages, SC	Lages, SC
		1644	Expansion of passenger terminal and runway system at Comandante Gustavo Kraemer Airport in Bagé	1 un	Bagé, RS	Bagé, RS
		1645	Expansion of João Simões Lopes Neto Airport in Pelotas	1 un	Pelotas, RS	Pelotas, RS
2914	Restoration of aircraft yard at Juazeiro do Norte Airport	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE		

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	2921	Restoration of runway system at Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
		3001	Implementation of system at Sorocaba Airport	1 un	Sorocaba, SP	Sorocaba, SP
		3026	Repair of runway at Governador José Richa Airport in Londrina	1 un	Londrina, PR	Londrina, PR
		3341	Expansion of Santa Maria Airport	1 un	Santa Maria, RS	Santa Maria, RS
		3342	Expansion of Erechim Airport	1 un	Erechim, RS	Erechim, RS
		3389	Repair of runway at Orlando Bezerra de Menezes Airport in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		3394	Acquisition of fire engines for Campo de Marte Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		3395	Acquisition of fire engines for Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
		3396	Acquisition of fire engines for Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
	Construção de aeroporto	1502	Construction of Itajubá Airport	1 un	Itajubá, MG	Itajubá, MG
		1517	Construction of passenger terminal at Caxambu Airport	1 un	Caxambu, MG	Caxambu, MG
		1610	Airport construction in Piancó	1 un	Piancó, PB	Piancó, PB
		1622	Construction of new airport in Londrina	1 un	Londrina, PR	Londrina, PR
		2911	Construction of passenger terminal at Pedro Otacílio Figueiredo Airport in Vitória da Conquista	1 un	Vitória da Conquista, BA	Vitória da Conquista, BA
		2963	Implementation of passenger terminal and runway and aircraft yard system at Santa Magalhães Airport in Serra Talhada	1 un	Serra Talhada, PE	Serra Talhada, PE

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		0001	Construction of Camaçari Rail Bypass	18,0 km	Camaçari, BA	Camaçari, BA
		0015	Construction of São Francisco do Sul Rail Bypass	8,3 km	São Francisco do Sul, SC	São Francisco do Sul, SC
		0016	Construction of Joinville Rail Bypass	18,0 km	Guaramirim, SC	Araquari, SC
		0017	Construction of rail link from Guarapuava to Ipiranga	110,0 km	Guarapuava, PR	Ipiranga, PR
		0033	Construction of branch line from Jaraguá do Sul to Guaramirim	31,1 km	Jaraguá do Sul, SC	Guaramirim, SC
		0559	Construction of São Félix Rail Bypass	18,0 km	São Félix, BA	Cachoeira, BA
		0561	Construction of Nova Transnordestina Railway from Missão Velha to São Gonçalo do Amarante	526,0 km	Missão Velha, CE	São Gonçalo do Amarante, CE
		1354	Construction of Nova Transnordestina Railway from Simões to Eliseu Martins	358,0 km	Simões, PI	Eliseu Martins, PI
Rail	Construction of railway	1371	Construction of Nova Transnordestina Railway from Salgueiro to Ipojuca	544,0 km	Salgueiro, PE	Ipojuca, PE
		1372	Construction of Santa Catarina Rail Corridor from Dionísio Cerqueira to Itajaí	638,8 km	Dionísio Cerqueira, SC	Itajaí, SC
		1393	Construction of rail link from Feira de Santana to Conceição da Feira	30,0 km	Feira de Santana, BA	Conceição da Feira, BA
		1402	Construction of rail link from Guarapuava to Pato Branco	184,0 km	Guarapuava, PR	Pato Branco, PR
		1404	Construction of railway from Petrolina to Salgueiro	242,0 km	Petrolina, PE	Salgueiro, PE
		1421	Construction of rail link from Serafina Corrêa to Protásio Alves	66,0 km	Serafina Corrêa, RS	Protásio Alves, RS
		1422	Construction of rail link from Triunfo to Pelotas	280,0 km	Triunfo, RS	Pelotas, RS
		1423	Construction of Candiota branch rail line	18,0 km	Candiota, RS	Hulha Negra, RS
		1442	Construction of Leste-Oeste Railway from Barracão to União da Vitória	300,0 km	Barracão, PR	União da Vitória, PR

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of railway	1471	Construction of branch line from Estrela to Rio Pardo	80,0 km	Estrela, RS	Rio Pardo, RS
		1473	Construction of Santa Maria Rail Bypass	6,0 km	Santa Maria, RS	Santa Maria, RS
		1475	Construction of Pelotas Rail Bypass	7,2 km	Pelotas, RS	Rio Grande, RS
		1481	Construction of rail link from Colinas to Caxias do Sul	92,2 km	Colinas, RS	Caxias do Sul, RS
		1721	Construction of Montes Claros Rail Bypass	21,4 km	Montes Claros, MG	Montes Claros, MG
		1722	Construction of Apucarana Rail Bypass	25,8 km	Apucarana, PR	Apucarana, PR
		1723	Construction of branch line from Arapongas to Jataizinho	89,1 km	Arapongas, PR	Jataizinho, PR
		1724	Construction of Cornélio Procópio Rail Bypass	11,5 km	Cornélio Procópio, PR	Cornélio Procópio, PR
		1725	Construction of Bandeirantes Rail Bypass	5,4 km	Bandeirantes, PR	Bandeirantes, PR
		1726	Construction of Uruguaiana Rail Bypass	5,9 km	Uruguaiana, RS	Uruguaiana, RS
		1727	Construction of Rio Grande Rail Bypass	21,0 km	Rio Grande, RS	Rio Grande, RS
		1728	Construction of Santo Amaro Rail Bypass	10,4 km	Santo Amaro, BA	Santo Amaro, BA
		1733	Construction of Araquari Rail Bypass	3,9 km	Araquari, SC	Araquari, SC
		1737	Construction of Ourinhos Rail Bypass	19,3 km	Ourinhos, SP	Ourinhos, SP
		2958	Construction of Nova Ferroeste railway from Guarapuava to Paranaguá	426,0 km	Guarapuava, PR	Paranaguá, PR
		2998	Construction of Candeias Rail Bypass	7,7 km	Candeias, BA	Candeias, BA
		3059	Construction of branch line from Candeias to Camaçari	18,0 km	Candeias, BA	Camaçari, BA
	Construction of HSR	1465	Construction of Belo Horizonte - Curitiba high-speed rail (HSR) from Belo Horizonte to Poços de Caldas	489,6 km	Belo Horizonte, MG	Poços de Caldas, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of HSR	1466	Construction of Belo Horizonte - Curitiba high-speed rail (HSR) from São Sebastião da Gramma to Ribeira	556,3 km	São Sebastião da Gramma, SP	Ribeira, SP
		1467	Construction of Belo Horizonte - Curitiba high-speed rail (HSR) from Adrianópolis to Curitiba	104,1 km	Adrianópolis, PR	Curitiba, PR
	Railway duplication	0034	Duplication of rail route from Curitiba to Paranaguá	107,8 km	Curitiba, PR	Paranaguá, PR
	Elimination of bottlenecks	1706	Removal of right of way intrusions in Canoas	2 un	Canoas, RS	Canoas, RS
		1738	Removal of level crossing in Capão do Leão	1 un	Capão do Leão, RS	Capão do Leão, RS
		1739	Removal of level crossing in Santa Maria	1 un	Santa Maria, RS	Santa Maria, RS
		1743	Removal of level crossing in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		1758	Removal of level crossing in Cerqueira César	1 un	Cerqueira César, SP	Cerqueira César, SP
		2891	Removal of right of way intrusion in Maringá	1 un	Maringá, PR	Maringá, PR
		2892	Removal of right of way intrusion in Ponta Grossa	1 un	Ponta Grossa, PR	Ponta Grossa, PR
		2893	Removal of right of way intrusion in Jandaia do Sul	1 un	Jandaia do Sul, PR	Jandaia do Sul, PR
		2894	Removal of right of way intrusion in Morretes	1 un	Morretes, PR	Morretes, PR
		2895	Removal of right of way intrusion in Piraquara	1 un	Piraquara, PR	Piraquara, PR
		2897	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2898	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2899	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2900	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2901	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		3085	Removal of right of way intrusion in Salvador	1 un	Salvador, BA	Salvador, BA
		3086	Removal of right of way intrusion in Iaçú	1 un	Iaçú, BA	Iaçú, BA

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3112	Removal of right of way intrusion in Campos Altos	1 un	Campos Altos, MG	Campos Altos, MG
		3113	Removal of right of way intrusions in Bambuí	3 un	Bambuí, MG	Bambuí, MG
		3119	Removal of right of way intrusions in Montes Claros	2 un	Montes Claros, MG	Montes Claros, MG
		3135	Removal of right of way intrusions in Canitar	2 un	Canitar, SP	Canitar, SP
		3136	Removal of right of way intrusion in Chavantes	1 un	Chavantes, SP	Chavantes, SP
		3137	Removal of right of way intrusions in Avaré	3 un	Avaré, SP	Avaré, SP
		3177	Removal of right of way intrusion in Irineópolis	1 un	Irineópolis, SC	Irineópolis, SC
		3178	Removal of right of way intrusions in Corupá	3 un	Corupá, SC	Corupá, SC
		3179	Removal of right of way intrusions in Jaraguá do Sul	7 un	Jaraguá do Sul, SC	Jaraguá do Sul, SC
		3181	Removal of right of way intrusions in Guaramirim	2 un	Guaramirim, SC	Guaramirim, SC
		3182	Removal of right of way intrusions in Joinville	4 un	Joinville, SC	Joinville, SC
		3183	Removal of right of way intrusions in São Francisco do Sul	6 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		3184	Removal of right of way intrusions in Mafra	3 un	Mafra, SC	Mafra, SC
		3185	Removal of right of way intrusion in Lages	1 un	Lages, SC	Lages, SC
		3191	Removal of right of way intrusions in Uruguaiana	15 un	Uruguaiana, RS	Uruguaiana, RS
		3192	Removal of right of way intrusions in Uruguaiana	6 un	Alegrete, RS	Alegrete, RS
		3193	Removal of right of way intrusion in Cacequi	1 un	Cacequi, RS	Cacequi, RS
		3194	Removal of right of way intrusions in Pedro Osório	2 un	Pedro Osório, RS	Pedro Osório, RS
		3195	Removal of right of way intrusions in Capão do Leão	2 un	Capão do Leão, RS	Capão do Leão, RS
		3196	Removal of right of way intrusions in Pelotas	3 un	Pelotas, RS	Pelotas, RS

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3197	Removal of right of way intrusions in Dilermando de Aguiar	2 un	Dilermando de Aguiar, RS	Dilermando de Aguiar, RS
		3198	Removal of right of way intrusions in Santa Maria	9 un	Santa Maria, RS	Santa Maria, RS
		3199	Removal of right of way intrusion in Rio Pardo	1 un	Rio Pardo, RS	Rio Pardo, RS
		3200	Removal of right of way intrusion in Triunfo	1 un	Triunfo, RS	Triunfo, RS
		3208	Removal of right of way intrusions in Rolândia	2 un	Rolândia, PR	Rolândia, PR
		3209	Removal of right of way intrusion in Cambará	1 un	Cambará, PR	Cambará, PR
		3230	Removal of level crossing in Campos Altos	1 un	Campos Altos, MG	Campos Altos, MG
		3231	Removal of level crossings in Bambuí	4 un	Bambuí, MG	Bambuí, MG
		3239	Removal of level crossing in Espinosa	1 un	Espinosa, MG	Espinosa, MG
		3240	Removal of level crossings in Janaúba	2 un	Janaúba, MG	Janaúba, MG
		3249	Removal of level crossing in Porto União	1 un	Porto União, SC	Porto União, SC
		3250	Removal of level crossing in São Bento do Sul	1 un	São Bento do Sul, SC	São Bento do Sul, SC
		3252	Removal of level crossings in Mafra	3 un	Mafra, SC	Mafra, SC
		3253	Removal of level crossing in Papanduva	1 un	Papanduva, SC	Papanduva, SC
		3254	Removal of level crossing in Santa Cecília	1 un	Santa Cecília, SC	Santa Cecília, SC
		3284	Removal of level crossings in Brumado	3 un	Brumado, BA	Brumado, BA
		3285	Removal of level crossings in Iaçú	3 un	Iaçú, BA	Iaçú, BA
		3286	Removal of level crossing in Itatim	1 un	Itatim, BA	Itatim, BA
		3287	Removal of level crossings in Castro Alves	3 un	Castro Alves, BA	Castro Alves, BA
		3288	Removal of level crossing in São Sebastião do Passé	1 un	São Sebastião do Passé, BA	São Sebastião do Passé, BA
3289	Removal of level crossings in Uraí	2 un	Uraí, PR	Uraí, PR		



Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3290	Removal of level crossing in Andirá	1 un	Andirá, PR	Andirá, PR
		3291	Removal of level crossing in Maringá	1 un	Maringá, PR	Maringá, PR
		3292	Removal of level crossings in Sarandi	3 un	Sarandi, PR	Sarandi, PR
		3293	Removal of level crossings in Marialva	2 un	Marialva, PR	Marialva, PR
		3294	Removal of level crossings in Mandaguari	2 un	Mandaguari, PR	Mandaguari, PR
		3295	Removal of level crossings in Jandaia do Sul	3 un	Jandaia do Sul, PR	Jandaia do Sul, PR
		3296	Removal of level crossings in Ponta Grossa	3 un	Ponta Grossa, PR	Ponta Grossa, PR
	Restoration of railway	0041	Restoration of Linha Centro railway from Candeias to Juazeiro	600,0 km	Candeias, BA	Juazeiro, BA
		1394	Restoration of passenger train railway from Conceição da Feira to Alagoinhas	238,0 km	Conceição da Feira, BA	Alagoinhas, BA
		1397	Restoration of passenger train railway from Bocaiúva to Janaúba	217,0 km	Bocaiúva, MG	Janaúba, MG
		1399	Restoration of railway in Serra do Tigre from Pratinha to Tapiraí	50,0 km	Pratinha, MG	Tapiraí, MG
		1401	Restoration of passenger train railway from Maringá to Londrina	122,0 km	Maringá, PR	Londrina, PR
		1413	Restoration of rail link from Cacequi to Rio Grande	896,0 km	Cacequi, RS	Rio Grande, RS
		1416	Restoration of rail link from Cruz Alta to Itaara	150,0 km	Cruz Alta, RS	Itaara, RS
		1417	Restoration of rail link from Porto Alegre to Uruguaiana	800,0 km	Porto Alegre, RS	Uruguaiana, RS
		1418	Restoration of rail link from Roca Sales to Triunfo	136,0 km	Roca Sales, RS	Triunfo, RS
		1424	Restoration of passenger train railway from Bento Gonçalves to Caxias do Sul	65,0 km	Bento Gonçalves, RS	Caxias do Sul, RS
		1427	Restoration of rail link from Porto União to São Francisco do Sul	460,0 km	Porto União, SC	São Francisco do Sul, SC

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Restoration of railway	1430	Restoration of passenger train railway from Rio do Sul to Itajaí	146,0 km	Rio do Sul, SC	Itajaí, SC
		1432	Restoration of passenger train railway from São Paulo to Itapetininga	199,0 km	São Paulo, SP	Itapetininga, SP
		1472	Restoration of rail link from Passo Fundo to Roca Sales	157,0 km	Passo Fundo, RS	Roca Sales, RS
		1476	Restoration of Passo Fundo - Porto União railway from Marcelino Ramos to Passo Fundo	172,4 km	Marcelino Ramos, RS	Passo Fundo, RS
		1477	Restoration of railway Passo Fundo - Porto União railway from Porto União to Alto Bela Vista	362,3 km	Porto União, SC	Alto Bela Vista, SC
		1480	Renovation of rail link from Cascavel to Laranjeiras do Sul	140,0 km	Cascavel, PR	Laranjeiras do Sul, PR
		2956	Recuperação da Ferrovia Oeste do Paraná de Paranaguá a Cascavel	734,8 km	Paranaguá, PR	Cascavel, PR
Waterway	Waterway adjustment	1348	Adjustment of Paraguaçu River waterway from Itaeté to Salinas da Margarida	340,0 km	Itaeté, BA	Salinas da Margarida, BA
Port	Port area	2388	Adjustment of Port of Pelotas	1 un	Pelotas, RS	Pelotas, RS
Road	Road adjustment	0770	Implementation of additional lane on PE-337/BR-426 from Triunfo to Flores	43,0 km	Triunfo, PE	Flores, PE
		0771	Implementation of signs on PE-360 from Ibimirim to Floresta	99,2 km	Ibimirim, PE	Floresta, PE
		0787	Implementation of additional lane on MGT-369/BR-369 from Oliveira to Campo Belo	20,0 km	Oliveira, MG	Campo Belo, MG
		0802	Implementation of additional lane on BR-377 in Cruz Alta and Ibirubá	10,0 km	Cruz Alta, RS	Cruz Alta, RS
		0974	Adjustment of Belo Horizonte ring road	12,2 km	Belo Horizonte, MG	Belo Horizonte, MG
		2288	Implementation of additional lane on BR-476 from Lapa to Paula Freitas	43,6 km	Lapa, PR	Paula Freitas, PR

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2327	Implementation of additional lane on MG-188/BR-354 and MGT-354/BR-354 from Guarda-Mor to Patos de Minas	126,0 km	Guarda-Mor, MG	Patos de Minas, MG
		2332	Implementation of additional lane on BR-459 from Pouso Alegre to Delfim Moreira	44,0 km	Pouso Alegre, MG	Delfim Moreira, MG
		2336	Implementation of signs on PB-262/BR-110 from Patos to Teixeira	35,6 km	Patos, PB	Teixeira, PB
		2338	Implementation of additional lane on PE-275/BR-110 from Brejinho to São José do Egito	10,0 km	Brejinho, PE	São José do Egito, PE
		2339	Implementation of an additional lane on BR-232 from Flores to Salgueiro	97,0 km	Flores, PE	Salgueiro, PE
		2347	Implementation of additional lane on PRT-272/BR-272 and PRT-466/BR-466 from Mauá da Serra to Pitanga	119,0 km	Mauá da Serra, PR	Pitanga, PR
		2348	Implementation of additional lane on BR-487 from Campo Mourão to Iretama	14,0 km	Campo Mourão, PR	Iretama, PR
		2353	Implementation of additional lane on RS-153 / BR-153 from Barros Cassal to Vera Cruz	23,0 km	Barros Cassal, RS	Vera Cruz, RS
		2362	Implementation of signs on BR-282 and BR-283 in Campos Novos	29,6 km	Campos Novos, SC	Campos Novos, SC
		2363	Implementation of additional lane on BR-470 in Campos Novos	5,0 km	Campos Novos, SC	Campos Novos, SC
		2468	Implementation of signs on MG-290 from Pouso Alegre to Jacutinga	97,3 km	Pouso Alegre, MG	Jacutinga, MG
		2478	Implementation of signs on PR-170 from Guarapuava to General Carneiro	177,4 km	Guarapuava, PR	General Carneiro, PR
		2508	Implementation of signs on MG-434 from Bom Jesus do Amparo to Itabira	19,1 km	Bom Jesus do Amparo, MG	Itabira, MG
		2544	Implementation of signs on BR-494 from Nova Serrana to Divinópolis	30,4 km	Nova Serrana, MG	Divinópolis, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2569	Adjustment of crossing on BR-158 and BR-287 in Santa Maria	14,5 km	Santa Maria, RS	Santa Maria, RS
		2583	Implementation of additional lane on BR-230 from Ipaumirim to Farias Brito	96,0 km	Ipaumirim, CE	Farias Brito, CE
		2594	Implementation of additional lane on BR-282 from Campos Novos to Vargem Bonita	13,0 km	Campos Novos, SC	Vargem Bonita, SC
		2654	Implementation of additional lane on BR-369 and PRT-466/BR-466 from Jandaia do Sul to Borrazópolis	40,0 km	Jandaia do Sul, PR	Borrazópolis, PR
		2668	Implementation of additional lane on BR-470 from Nova Prata to Garibaldi	11,0 km	Nova Prata, RS	Garibaldi, RS
		2670	Implementation of additional lane on BR-280 from Mafra to Porto União	100,0 km	Mafra, SC	Porto União, SC
		2688	Implementation of additional lane on BR-354 from Pouso Alto to Itamonte	47,0 km	Pouso Alto, MG	Itamonte, MG
		2695	Implementation of additional lane on MGT-120/BR-120 from Capelinha to Guanhães	164,0 km	Capelinha, MG	Guanhães, MG
		2700	Implementation of additional lane on MGT-135/BR-135 from Januária to Montes Claros	50,0 km	Januária, MG	Montes Claros, MG
		3444	Implementation of signs on BA-026 from Iramaia to Contendas do Sincorá	36,9 km	Iramaia, BA	Contendas do Sincorá, BA
		3445	Implementation of signs on BA-052 from Feira de Santana to Morro do Chapéu	266,0 km	Feira de Santana, BA	Morro do Chapéu, BA
		3446	Implementation of signs on BA-052 from Morro do Chapéu to Xique-Xique	164,7 km	Morro do Chapéu, BA	Xique-Xique, BA
		3450	Implementation of signs on BA-131 from Jacobina to Piritiba	65,2 km	Jacobina, BA	Piritiba, BA
3454	Implementation of signs on BA-262 from Caraíbas to Brumado	78,8 km	Caraíbas, BA	Brumado, BA		

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3456	Implementation of signs on BA-421 from Piritiba to Mundo Novo	29,5 km	Piritiba, BA	Mundo Novo, BA
		3466	Implementation of signs on BR-405 from Mossoró to Pau dos Ferro	144,5 km	Mossoró, RN	Pau dos Ferros, RN
		3493	Implementation of additional lane on BR-324 in Jacobina	10,0 km	Jacobina, BA	Jacobina, BA
		3494	Implementation of signs on BR-324 from Jacobina to Capim Grosso	64,2 km	Jacobina, BA	Capim Grosso, BA
		3524	Implementation of additional lane on PE-265/BR-110 in Sertânia	17,0 km	Sertânia, PE	Sertânia, PE
		3533	Implementation of signs on BR-232 from Sertânia to Flores	76,9 km	Sertânia, PE	Flores, PE
		3545	Implementation of additional lane on BR-116 from Icó to Ipaumirim	40,0 km	Icó, CE	Ipaumirim, CE
		3546	Implementation of signs on BR-116 from Barro to Penaforte	114,6 km	Barro, CE	Penaforte, CE
		3550	Implementation of additional lane on CE-060/BR-122 and CE-292/BR-122 from Caririaçu to Crato	48,4 km	Caririaçu, CE	Crato, CE
		3555	Implementation of additional lane on BR-110 in Monteiro	10,0 km	Monteiro, PB	Monteiro, PB
		3557	Implementation of signs on BR-116 road in Cachoeira dos Índios	13,7 km	Cachoeira dos Índios, PB	Cachoeira dos Índios, PB
		3560	Implementation of additional lane on BR-361 and PB-386/BR-361 from Piancó to Conceição	81,0 km	Piancó, PB	Conceição, PB
		3561	Implementation of signs on BR-405 from São João do Rio do Peixe to Marizópolis	17,7 km	São João do Rio do Peixe, PB	Marizópolis, PB
		3562	Implementation of additional lane on BR-434 from Uiraúna to Santarém	10,0 km	Uiraúna, PB	Santarém, PB
3564	Implementation of signs on CE-138/BR-226 from Ererê to Pereiro	18,4 km	Ererê, CE	Pereiro, CE		

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3567	Implementation of additional lane on BR-426 from Piancó to Santana dos Garrotes	23,0 km	Piancó, PB	Santana dos Garrotes, PB
		3569	Implementation of additional lane on PB-306/BR-426 from Tavares to Princesa Isabel	20,0 km	Tavares, PB	Princesa Isabel, PB
		3570	Implementation of additional lane on BR-226 from Senador Pompeu to Pedra Branca	68,0 km	Senador Pompeu, CE	Pedra Branca, CE
		3573	Implantation of signs on PB-400 from Cajazeiras to Conceição	100,2 km	Cajazeiras, PB	Conceição, PB
		3647	Implementation of signs on BR-120 from Araçuaí to Jenipapo de Minas	49,0 km	Araçuaí, MG	Jenipapo de Minas, MG
		3660	Implementation of signs on BR-146 from Albertina to Jacutinga	16,0 km	Albertina, MG	Jacutinga, MG
		3666	Implementation of signs on SP-270 from Itaí to Ipaussu	68,1 km	Itaí, SP	Ipaussu, SP
		3669	Implementation of additional lane on BR-491 and MGT-491/BR-491 from São Sebastião do Paraíso to Guaxupé	67,0 km	São Sebastião do Paraíso, MG	Guaxupé, MG
		3671	Implementation of signs on MGT-491/BR-491 from Muzambinho to Areado	39,3 km	Muzambinho, MG	Areado, MG
		3681	Implementation of additional lane on BR-367 from Minas Novas to Turmalina	40,0 km	Minas Novas, MG	Turmalina, MG
		3682	Implementation of additional lane on MGT-367/BR-367 from Senador Modestino Gonçalves to Datas	96,0 km	Senador Modestino Gonçalves, MG	Datas, MG
		3684	Implementation of additional lane on BR-262 from Martins Soares to São Domingos do Prata	104,0 km	Martins Soares, MG	São Domingos do Prata, MG
		3722	Implementation of additional lane on MGT-259/BR-259 and MG-010/BR-259 from Governador Valadares to Curvelo	327,0 km	Governador Valadares, MG	Curvelo, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3729	Implementation of additional lane on BR-265 and BR-369 from São Sebastião do Paraíso to Alfenas	67,0 km	São Sebastião do Paraíso, MG	Alfenas, MG
		3732	Implementation of additional lane on BR-265 from Lavras to Santana da Vargem	26,0 km	Lavras, MG	Santana da Vargem, MG
		3739	Implementation of additional lane on BR-352 from Patos de Minas to Arapuá	40,0 km	Patos de Minas, MG	Arapuá, MG
		3740	Implementation of additional lane on MGT-352/BR-352 from Cedro do Abaeté to Pará de Minas	129,0 km	Cedro do Abaeté, MG	Pará de Minas, MG
		3743	Implementation of additional lane on BR-280 from Jaraguá do Sul to Mafra	60,0 km	Jaraguá do Sul, SC	Mafra, SC
		3744	Implementation of signs on BR-282 from Lages to Campos Novos	103,5 km	Lages, SC	Campos Novos, SC
		3756	Implementation of additional lane on SC-284/BR-283 and SC-135/BR-283 from Campos Novos to Capinzal	15,0 km	Campos Novos, SC	Capinzal, SC
		3766	Implementation of signs on SC-453 from Tangará to Luzerna	32,5 km	Tangará, SC	Luzerna, SC
		3768	Implantation of signs on SC-350 from Caçador to Santa Cecília	69,5 km	Caçador, SC	Santa Cecília, SC
		3774	Implementation of additional lane on MGT-458/BR-458 in Tarumirim	10,0 km	Tarumirim, MG	Tarumirim, MG
		3775	Implementation of additional lane on BR-458 from Inhapim to Ipatinga	20,0 km	Inhapim, MG	Ipatinga, MG
		3776	Implementation of additional lane on BR-460 from Cambuquira to Pouso Alto	63,0 km	Cambuquira, MG	Pouso Alto, MG
		3784	Implementation of signs on MG-167 from Santana da Vargem to Varginha	43,8 km	Santana da Vargem, MG	Varginha, MG
		3788	Implementation of signs on MG-208 from Minas Novas to Capelinha	44,1 km	Minas Novas, MG	Capelinha, MG



Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3792	Implementation of signs on MG-450 in Guaxupé	14,6 km	Guaxupé, MG	Guaxupé, MG
		3794	Implementation of signs on MG-818 from Juatuba to Pará de Minas	28,4 km	Juatuba, MG	Pará de Minas, MG
		3808	Construction of bridge on BR-116 over Jaguarão River in Jaguarão	13,0 km	Jaguarão, RS	Jaguarão, RS
		3814	Implementation of additional lane on RST-153/BR-153 from Passo Fundo to Tio Hugo	28,0 km	Passo Fundo, RS	Tio Hugo, RS
		3817	Implementation of signs on BR-153 from Novo Cabrais to Cachoeira do Sul	61,5 km	Novo Cabrais, RS	Cachoeira do Sul, RS
		3818	Implementation of additional lane on BR-153 from Caçapava do Sul to Hulha Negra	139,0 km	Caçapava do Sul, RS	Hulha Negra, RS
		3828	Implementation of signs on BR-158 from Santa Maria to Rosário do Sul	115,5 km	Santa Maria, RS	Rosário do Sul, RS
		3831	Implementation of additional lane on BR-285 from Vacaria to Passo Fundo	168,0 km	Vacaria, RS	Passo Fundo, RS
		3834	Implementation of signs on BR-285 from Carazinho to Santa Bárbara do Sul	51,2 km	Carazinho, RS	Santa Bárbara do Sul, RS
		3838	Implementation of additional lane on PRT-272/BR-272 from Siqueira Campos to Ibaiti	50,0 km	Siqueira Campos, PR	Ibaiti, PR
		3840	Implementation of signs on BR-287 from Santa Maria to São Vicente do Sul	78,8 km	Santa Maria, RS	São Vicente do Sul, RS
		3845	Implementation of signs on BR-153 and BR-290 from Cachoeira do Sul to São Sepé	72,7 km	Cachoeira do Sul, RS	São Sepé, RS
		3846	Implementation of additional lane on BR-290 from São Sepé to São Gabriel	79,0 km	São Sepé, RS	São Gabriel, RS
		3847	Implementation of signs on BR-290 from São Gabriel to Rosário do Sul	49,7 km	São Gabriel, RS	Rosário do Sul, RS
		3857	Implementation of additional lane on BR-293 from Capão do Leão to Hulha Negra	124,0 km	Capão do Leão, RS	Hulha Negra, RS

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3880	Implementation of additional lane on BR-470 from Barracão to Lagoa Vermelha	60,0 km	Barracão, RS	Lagoa Vermelha, RS
		3899	Implementation of additional lane on RST-480/BR-480 from Nonoai to Erechim	59,0 km	Nonoai, RS	Erechim, RS
		3908	Implementation of signs on RS-223 from Tio Hugo to Cruz Alta	78,6 km	Tio Hugo, RS	Cruz Alta, RS
		3912	Implementation of signs on RS-734 in Rio Grande	21,7 km	Rio Grande, RS	Rio Grande, RS
		3934	Implementation of signs on PR-090 from Ventania to Pirai do Sul	32,5 km	Ventania, PR	Pirai do Sul, PR
	Road construction	0178	Construction of North Bypass of Belo Horizonte Ring Road	67,5 km	Sabará, MG	Betim, MG
		0558	Construction of BR-153 from Ipiranga to Imbituva	50,5 km	Ipiranga, PR	Imbituva, PR
		0713	Construction of BR-230 from Farias Brito to Campos Sales	85,0 km	Farias Brito, CE	Campos Sales, CE
		0925	Construction of BR-272 from Itapetininga to Taquarituba	142,3 km	Itapetininga, SP	Taquarituba, SP
		0926	Construction of BR-272 from Figueira to Mauá da Serra	80,0 km	Figueira, PR	Mauá da Serra, PR
		0927	Construction of BR-272 from Cruzmaltina to Campo Mourão	92,9 km	Cruzmaltina, PR	Campo Mourão, PR
		0943	Construction of BR-251 from Montes Claros to Bonfinópolis de Minas	264,5 km	Montes Claros, MG	Bonfinópolis de Minas, MG
		0944	Construction of BR-251 from Jordânia to Pedra Azul	161,3 km	Jordânia, MG	Pedra Azul, MG
		0947	Construction of BR-464 from Sacramento to São João Batista da Glória	174,4 km	Sacramento, MG	São João Batista do Glória, MG
		0950	Construction of MGT-342/BR-342 from Araçuaí to Carai	62,0 km	Araçuaí, MG	Carai, MG
		0955	Construction of BR-354 in Guarda-Mor	33,3 km	Guarda-Mor, MG	Guarda-Mor, MG
		1241	Construction of São Paulo North Ring Road	44,0 km	São Paulo, SP	Arujá, SP

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construction	2161	Construction of BR-324 from Sento Sé to Umburanas	107,0 km	Sento Sé, BA	Umburanas, BA
		2165	Construction of BR-226 in Ererê	9,2 km	Ererê, CE	Ererê, CE
		2166	Construction of BR-122 from Várzea Alegre to Caririaçu	27,0 km	Várzea Alegre, CE	Caririaçu, CE
		2280	Construction of SCT-477/BR-477 from Rio Negrinho to Doutor Pedrinho	30,0 km	Rio Negrinho, SC	Doutor Pedrinho, SC
		2300	Construction of South Bypass of Belo Horizonte Ring Road	35,0 km	Betim, MG	Belo Horizonte, MG
		2301	Construction of MGT-146/BR-146 from Tapira to São João Batista do Glória	193,6 km	Tapira, MG	São João Batista do Glória, MG
		3636	Construction of East Bypass of Belo Horizonte Ring Road	22,0 km	Belo Horizonte, MG	Sabará, MG
	Road duplication	0061	Duplication of BR-116 from Salgueiro to Belém de São Francisco	93,2 km	Salgueiro, PE	Belém de São Francisco, PE
		0065	Duplication of BR-153 from Paula Freitas to General Carneiro	94 km	Paula Freitas, PR	General Carneiro, PR
		0078	Duplication of BR-116 from Vacaria to Estância Velha	224,6 km	Vacaria, RS	Estância Velha, RS
		0081	Duplication of BR-153 from Marcelino Ramos to Erechim	53,3 km	Marcelino Ramos, RS	Erechim, RS
		0084	Duplication of BR-153 and BR-285 from Passo Fundo to Carazinho	41,1 km	Passo Fundo, RS	Carazinho, RS
		0087	Duplication of BR-116 from Mafra to Capão Alto	307,9 km	Mafra, SC	Capão Alto, SC
		0090	Duplication of BR-153 from Água Doce to Concórdia	119,3 km	Água Doce, SC	Concórdia, SC
		0118	Duplication of BR-392 from Pelotas to Santa Maria	277,8 km	Pelotas, RS	Santa Maria, RS
		0122	Duplication of BR-153 from Imbituva to Paulo Frontin	117,7 km	Imbituva, PR	Paulo Frontin, PR
		0576	Duplication of BR-116 from Tabuleiro do Norte to Jaguaribe	112,4 km	Tabuleiro do Norte, CE	Jaguaribe, CE
		0593	Duplication of BR-262 from São Domingos do Prata to João Monlevade	10,9 km	São Domingos do Prata, MG	João Monlevade, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	0599	Duplication of BR-381 from Governador Valadares to Belo Horizonte	298,9 km	Governador Valadares, MG	Belo Horizonte, MG
		0600	Duplication of BR-392 from Rio Grande to Pelotas	60,6 km	Rio Grande, RS	Pelotas, RS
		0710	Duplication of BR-232 from São Caitano to Sertânia	127,6 km	São Caitano, PE	Sertânia, PE
		0789	Duplication of BR-146 from Muzambinho to Andradas	89,3 km	Muzambinho, MG	Andradas, MG
		2213	Duplication of BR-116 from Abaré to Feira de Santana	423,9 km	Abaré, BA	Feira de Santana, BA
		2287	Road duplication of PR-092 from Jaguariaíva to Santo Antônio da Platina	127,5 km	Jaguariaíva, PR	Santo Antônio da Platina, PR
		2293	Duplication of BR-158 from Cruz Alta to Santa Maria	124,2 km	Cruz Alta, RS	Santa Maria, RS
		2311	Duplication of BR-251 from Águas Vermelhas to Montes Claros	331,2 km	Águas Vermelhas, MG	Montes Claros, MG
		2312	Duplication of BR-135 from Montes Claros to Curvelo	321,5 km	Montes Claros, MG	Curvelo, MG
		2318	Duplication of BA-026/BR-407, BA-142/BR-407 and BA-262/BR-407 roads from Contendas do Sincorá to Vitória da Conquista	150,8 km	Contendas do Sincorá, BA	Vitória da Conquista, BA
		2345	Duplication of PRT-280/BR-280 in União da Vitória	6,6 km	União da Vitória, PR	União da Vitória, PR
		2359	Road duplication of RST-471/BR-471 from Pantano Grande to Canguçu	135,7 km	Pantano Grande, RS	Canguçu, RS
		2366	Duplication of SP-097/BR-478 and SP-079/BR-478 roads from Porto Feliz to Juquiá	139,5 km	Porto Feliz, SP	Juquiá, SP
		2367	Duplication of BR-386 from Carazinho to Lajeado	165,9 km	Carazinho, RS	Lajeado, RS
		2529	Duplication of BR-324 from Nova Fátima to Feira de Santana	89,0 km	Nova Fátima, BA	Feira de Santana, BA
		2580	Duplication of BR-316 from Cabrobó a Floresta	95,7 km	Cabrobó, PE	Floresta, PE
		2619	Duplication of MGT-122/BR-122 from Espinosa to Francisco Sá	253,4 km	Espinosa, MG	Francisco Sá, MG
		2620	Duplication of MGT-342/BR-342 from Salinas to Araçuaí	104,7 km	Salinas, MG	Araçuaí, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	2678	Duplication of SP-127 / BR-373 and SP-250 / BR-373 from Capão Bonito to Ribeira	131,3 km	Capão Bonito, SP	Ribeira, SP
		2690	Duplication of BR-354 from Arapuá to Perdões	282,3 km	Arapuá, MG	Perdões, MG
		3467	Duplication of BR-405 from Rafael Fernandes to Luís Gomes	31,2 km	Rafael Fernandes, RN	Luís Gomes, RN
		3513	Duplication of BA-130 / BR-407 from Capim Grosso to Ruy Barbosa	159,5 km	Capim Grosso, BA	Ruy Barbosa, BA
		3525	Duplication of BR-410 from Ribeira do Pombal to Tucano	35,6 km	Ribeira do Pombal, BA	Tucano, BA
		3534	Duplication of BR-232 from Salgueiro to Parnamirim	49,6 km	Salgueiro, PE	Parnamirim, PE
		3565	Duplication of BR-226 from Pereiro to Jaguaribe	27,1 km	Pereiro, CE	Jaguaribe, CE
		3568	Duplication of BR-226 from Solonópole to Senador Pompeu	69,5 km	Solonópole, CE	Senador Pompeu, CE
		3644	Duplication of MGT-120/ BR-120 and MG-129/ BR-120 roads from Guanhões to Itabira	154,4 km	Guanhões, MG	Itabira, MG
		3661	Duplication of BR-267 from Machado to Poços de Caldas	75,7 km	Machado, MG	Poços de Caldas, MG
		3673	Road duplication of MGT-491/BR-491 from Varginha to Três Corações	15,9 km	Varginha, MG	Três Corações, MG
		3730	Duplication of BR-265 in São João Del Rei	12,1 km	São João Del Rei, MG	São João Del Rei, MG
		3733	Duplication of BR-494 from Divinópolis to Oliveira	68,3 km	Divinópolis, MG	Oliveira, MG
		3736	Duplication of BR-459 from Poços de Caldas to Pouso Alegre	89,7 km	Poços de Caldas, MG	Pouso Alegre, MG
		3746	Duplication of BR-282 in Campos Novos	13,2 km	Campos Novos, SC	Campos Novos, SC
		3749	Duplication of BR-153 from Jacarezinho to Ipiranga	242,0 km	Jacarezinho, PR	Ipiranga, PR
3807	Duplication of Bypass in Pelotas on BR-116 and BR-392	23,7 km	Pelotas, RS	Pelotas, RS		

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road duplication	3812	Duplication of BR-386 from Sarandi to Carazinho	44,7 km	Sarandi, RS	Carazinho, RS	
		3882	Duplication of PRT-466 / BR-466 from Pitanga to Guarapuava	85,4 km	Pitanga, PR	Guarapuava, PR	
		3943	Duplication of SP-255 and SP-281 from Araraquara to Itararé	271,2 km	Araraquara, SP	Itararé, SP	
	Paving of road	0189	Paving of RST-481 / BR-481 from Sobradinho to Cerro Branco	43,5 km	Sobradinho, RS	Cerro Branco, RS	
		0812	Paving of BR-146 from Passos to Bom Jesus da Penha	43,5 km	Passos, MG	Bom Jesus da Penha, MG	
		0934	Paving of BR-235 from Pedro Alexandre to Juazeiro	347,1 km	Pedro Alexandre, BA	Juazeiro, BA	
		0936	Paving of BR-226 in Crateús	58,0 km	Crateús, CE	Crateús, CE	
		0940	Paving of BR-367 from Virgem da Lapa to Minas Novas	59,5 km	Virgem da Lapa, MG	Minas Novas, MG	
		0949	Paving of MGT-342 / BR-342 from Espinosa to Novorizonte	139,4 km	Espinosa, MG	Novorizonte, MG	
		2189	Paving of BR-316 in Inajá	23,8 km	Inajá, PE	Inajá, PE	
		2296	Paving of BR-135 from Montalvânia to Itacarambi	137,4 km	Montalvânia, MG	Itacarambi, MG	
		2455	Paving of BR-110 from Ibimirim to Petrolândia	71,6 km	Ibimirim, PE	Petrolândia, PE	
		3566	Paving of BR-226 from Jaguaribe to Solonópole	57,3 km	Jaguaribe, CE	Solonópole, CE	
		Restoration of pavement	2330	Restoration of pavement on MGT-381/BR-381 from Mantena to Galiléia	108,2 km	Mantena, MG	Galiléia, MG
			2480	Restoration of pavement on PR-453 from Borrazópolis to Cruzmaltina	11,3 km	Borrazópolis, PR	Cruzmaltina, PR
			2481	Restoration of pavement on PRT-487/BR-487 and PR-460 roads from Iretama to Pitanga	52,5 km	Iretama, PR	Pitanga, PR
			2484	Restoration of pavement on RS-241 from São Francisco de Assis to São Vicente do Sul	49,3 km	São Francisco de Assis, RS	São Vicente do Sul, RS

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement	2493	Restoration of pavement on RN-177 from São Miguel to Pau dos Ferros	43,7 km	São Miguel, RN	Pau dos Ferros, RN
		2514	Restoration of pavement on RS-324 from Passo Fundo to Casca	69,8 km	Passo Fundo, RS	Casca, RS
		2518	Restoration of pavement on SC-350 from Água Doce to Caçador	62,4 km	Água Doce, SC	Caçador, SC
		2539	Restoration of pavement on MGT-135 / BR-135 from Itacarambi to Januária	59,1 km	Itacarambi, MG	Januária, MG
		2542	Restoration of pavement on MGT-367 / BR-367 from Turmalina to Senador Modestino Gonçalves	85,0 km	Turmalina, MG	Senador Modestino Gonçalves, MG
		2622	Restoration of pavement on BR-381 from Galiléia to Governador Valadares	38,2 km	Galiléia, MG	Governador Valadares, MG
		2658	Restoration of pavement on BR-405 from Pau dos Ferros to Rafael Fernandes	16,5 km	Pau dos Ferros, RN	Rafael Fernandes, RN
		2664	Restoration of pavement on BR-293 from Hulha Negra to Bagé	17,3 km	Hulha Negra, RS	Bagé, RS
		2672	Restoration of pavement on SCT-477 / BR-477 from Canoinhas to Papanduva	34,3 km	Canoinhas, SC	Papanduva, SC
		2673	Restoration of pavement on BR-471 road from Rio Grande to Chuí	193,3 km	Rio Grande, RS	Chuí, RS
		2687	Restoration of pavement on BR-265 road from São João Del Rei to Lavras	89,0 km	São João Del Rei, MG	Lavras, MG
		2699	Restoration of pavement on MGT-251 / BR-251 in Pedra Azul	14,8 km	Pedra Azul, MG	Pedra Azul, MG
		2710	Restoration of pavement on CE-494/BR-122 road from Crato to Santana do Cariri	23,8 km	Crato, CE	Santana do Cariri, CE
		2711	Restoration of pavement on PE-265 / BR-110 in Sertânia	31,7 km	Sertânia, PE	Sertânia, PE
2712	Restoration of pavement on PE-275/BR-110 and PE-275 from Sertânia to São José do Egito	79,6 km	Sertânia, PE	São José do Egito, PE		



Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement	3451	Restoration of pavement on BR-226 road from Antônio Martins to Pau dos Ferros	52,4 km	Antônio Martins, RN	Pau dos Ferros, RN
		3492	Restoration of pavement on BR-324 from Umburanas to Ourolândia	38,3 km	Umburanas, BA	Ourolândia, BA
		3528	Restoration of pavement on PE-585/BR-122, PE-545/BR-122 and PE-604/BR-122 from Exu to Lagoa Grande	212,8 km	Exu, PE	Lagoa Grande, PE
		3532	Restoration of pavement on BR-316 from Floresta to Petrolândia	65,0 km	Floresta, PE	Petrolândia, PE
		3554	Restoration of pavement on PB-250 / BR-110 from Ouro Velho to Monteiro	31,2 km	Ouro Velho, PB	Monteiro, PB
		3571	Restoration of the pavement on PB-228 and PB-238 roads from Juazeirinho to Teixeira	81,5 km	Juazeirinho, PB	Teixeira, PB
		3572	Restoration of the pavement on PB-393 from Cajazeiras to São João do Rio do Peixe	21,8 km	Cajazeiras, PB	São João do Rio do Peixe, PB
		3579	Restoration of pavement on CE-138 in Pereiro	19,1 km	Pereiro, CE	Pereiro, CE
		3587	Restoration of pavement on CE-386 from Farias Brito to Crato	43,4 km	Farias Brito, CE	Crato, CE
		3645	Restoration of pavement on MGT-120 / BR-120 from Itabira to São Domingos do Prata	45,8 km	Itabira, MG	São Domingos do Prata, MG
		3665	Restoration of pavement on SP-270 from Itapetininga to Itaí	112,2 km	Itapetininga, SP	Itaí, SP
		3670	Restoration of pavement on MG-491/BR-491 road from Guaxupé to Muzambinho	27,0 km	Guaxupé, MG	Muzambinho, MG
		3723	Restoration of pavement on MGT-259 / BR-259 from Curvelo to Felixlândia	42,8 km	Curvelo, MG	Felixlândia, MG
		3728	Restoration of pavement on MGT-369 / BR-369 from Boa Esperança to Campo Belo	47,6 km	Boa Esperança, MG	Campo Belo, MG

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement	3785	Restoration of pavement on MG-179 road from Alfenas to Pouso Alegre	103,2 km	Alfenas, MG	Pouso Alegre, MG
		3791	Restoration of pavement on MG-877 road in Poços de Caldas	25,7 km	Poços de Caldas, MG	Poços de Caldas, MG
		3815	Restoration of pavement on RS-332/BR-153 road from Soledade to Barros Cassal	41,0 km	Soledade, RS	Barros Cassal, RS
		3819	Restoration of pavement on BR-153 from Hulha Negra to Aceguá	68,5 km	Hulha Negra, RS	Aceguá, RS
		3841	Restoration of pavement on RST-287 / BR-287 from Agudo to Santa Maria	46,8 km	Agudo, RS	Santa Maria, RS
		3901	Restoration of pavement on RST-481 / BR-481 from Cruz Alta to Sobradinho	114,8 km	Cruz Alta, RS	Sobradinho, RS
		3911	Restoration of pavement on RS-640 road from São Vicente do Sul to Rosário do Sul	62,7 km	São Vicente do Sul, RS	Rosário do Sul, RS
Terminal	Terminal adjustment	0490	Expansion of Uruguaiana rail freight terminal	1 un	Uruguaiana, RS	Uruguaiana, RS
		3066	Adjustment of Pelotas rail freight terminal	1 un	Pelotas, RS	Pelotas, RS
	Terminal construction	0446	Construction of intermodal cargo terminal in Cambará	1 un	Cambará, PR	Cambará, PR
		0447	Construction of intermodal cargo terminal in União da Vitória	1 un	União da Vitória, PR	União da Vitória, PR
		0448	Construction of freight terminal in Telêmaco Borba	1 un	Telêmaco Borba, PR	Telêmaco Borba, PR
		0505	Construction of rail freight terminal in Dionísio Cerqueira	1 un	Dionísio Cerqueira, SC	Dionísio Cerqueira, SC
		1783	Construction of rail freight terminals in Salgueiro	1 un	Salgueiro, PE	Salgueiro, PE
		1788	Construction of waterway cargo terminal in Itaeté	1 un	Itaeté, BA	Itaeté, BA
		1793	Construction of rail freight terminal in Senador Pompeu	1 un	Senador Pompeu, CE	Senador Pompeu, CE
		1802	Construction of rail freight terminal in Laranjeiras do Sul	1 un	Laranjeiras do Sul, PR	Laranjeiras do Sul, PR

Table 3 - List of projects of the Northeast-South Corridor (E1)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1803	Construction of rail freight terminal in Pato Branco	1 un	Pato Branco, PR	Pato Branco, PR
		1804	Construction of rail freight terminal in Coronel Freitas	1 un	Coronel Freitas, SC	Coronel Freitas, SC
		1805	Construction of rail freight terminal in Passo Fundo	1 un	Passo Fundo, RS	Passo Fundo, RS
		1806	Construction of rail freight terminal in Lages	1 un	Lages, SC	Lages, SC
		1807	Construction of rail freight terminal in Bagé	1 un	Bagé, RS	Bagé, RS
		1866	Construction of intermodal cargo terminal in Salto	1 un	Salto, SP	Salto, SP
		2383	Construction of rail freight terminal in Feira de Santana	1 un	Feira de Santana, BA	Feira de Santana, BA
		2385	Construction of rail freight terminals in Brumado	1 un	Brumado, BA	Brumado, BA
		2452	Construction of logistics platform in Sorocaba	1 un	Sorocaba, SP	Sorocaba, SP
		2835	Construction of parking lot for cargo vehicles in the Belo Horizonte Metropolitan Region	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		2851	Construction of parking for cargo vehicles in Barueri in São Paulo Metropolitan Region	1 un	Barueri, SP	Barueri, SP
		3410	Construction of parking for cargo vehicles in Sorocaba Metropolitan Region	1 un	Sorocaba, SP	Sorocaba, SP
		3420	Construction of parking lot for cargo vehicles in the Metropolitan Region of Londrina	1 un	Arapongas, PR	Arapongas, PR

## 5.1.2 ESTIMATE OF INVESTMENT IN THE NORTHEAST-SOUTH CORRIDOR(E1)

The feasibility of the proposed projects for the Northeast-South Corridor requires the minimum investments indicated in Table 4, separated by infrastructure and category.

Table 4 - Minimum Investment - Northeast-South Corridor (E1 )

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	24 un	2.262.356.646,51
	Airport construction	6 un	1.449.492.516,67
Rail	Railway construction	4.241,0 km	35.594.965.882,59
	Construction of HSR	1.150,0 km	76.467.430.211,57
	Railway duplication	107,8 km	1.051.564.687,20
	Elimination of bottlenecks	145 un	405.333.845,23
	Restoration of railway	5.645,5 km	26.746.528.931,57
Waterway	Waterway adjustment	340,0 km	165.862.140,94
Port	Port area	1 un	39.245.344,62
Road	Road adjustment	5.964,6 km	13.588.830.434,59
	Road construction	1.681,5 km	17.888.169.474,76
	Road duplication	6.380,6 km	74.347.906.274,11
	Paving of road	981,1 km	3.550.416.959,80
	Restoration of pavement	2.383,4 km	7.848.339.861,74
Terminal	Terminal adjustment	2 un	38.097.653,37
	Terminal construction	21 un	870.918.969,07
<b>Total</b>			<b>262.315.459.834,34</b>

## 5.2 COASTAL CORRIDOR (E2)

The Coastal Corridor develops on the Brazilian oceanic coast and in its surroundings, with ends in the cities of Belém, PA and Porto Alegre, RS. Exclusively by road in its main route, the corridor crosses the North, Northeast, Southeast and South Regions, connecting national metropolises, some of the main state capitals and Brazilian urban centers, as well as allowing access to the main seaports of the country. Because they are located in areas of significant population concentration and economic output, the Coastal Corridor infrastructures are widely used by transporters and individual users in service and trade, or leisure and tourism

activities. Therefore, the qualification and expansion of these infrastructures is necessary in order to reduce travel times and costs, increase the quality of service offered by transportation companies and reduce accidents.

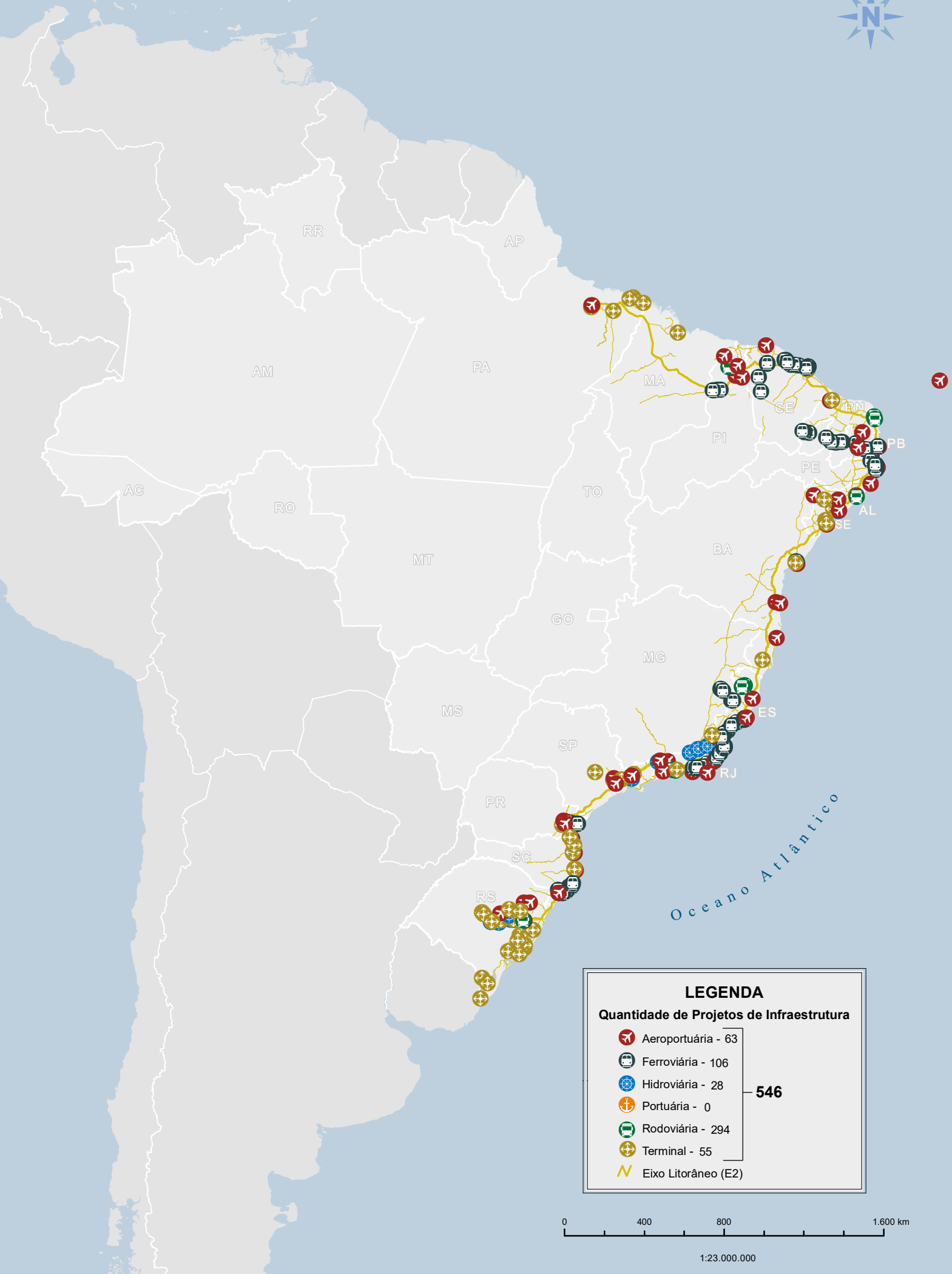
The corridor starts in Belém, PA and follows the BR-010 and BR-316 roads to Teresina, PI. From Teresina, PI, BR-226, BR-343 and BR-222 are utilized to Fortaleza, CE. Between Fortaleza, CE and Natal, RN, the corridor consists of BR-116 and BR-304. From Natal, RN to Itaboraí, RJ, the corridor connects, via BR-101, the capitals João Pessoa, PB; Recife, PE; Maceió, AL and Aracaju, SE; besides accessing Salvador, BA through BR-324. In Espírito Santo, it goes around Vitória, ES, and continues until Itaboraí, RJ, still by the BR-101. From Itaboraí, RJ state road and BR-116 stretches are used for access to Rio de Janeiro, RJ, where the corridor follows the BR-116 and, later, the BR-376, passing near Curitiba, PR, until the border between Paraná and Santa Catarina. In Santa Catarina and Rio Grande do Sul, the corridor follows, again, through BR-101 and BR-290 until reaching Porto Alegre, RS.

In its route, the Coastal Corridor is integrated: with the Northeast-South Corridor (E1) in Ceará, in the stretch between Fortaleza, CE, and Beberibe, CE, (in Boqueirão do Cesário, CE), in Bahia (in Conceição da Feira, BA, and the border between Muritiba, BA, and Cruz das Almas, BA) and the city of São Paulo, SP; with the North-Southeast Corridor (E6) in São Paulo, SP; with the East-West Corridor (E7) in Feira de Santana, BA; with the Northeast-Southeast Corridor (E8) in Teresina, PI, and near Rio de Janeiro, RJ, between the cities of Nova Iguaçu, RJ, and Belford Roxo, RJ; and with the Cabotage Corridor (E9) at various points that allow access to the main seaports in Brazil, from Belém, PA, to Porto Alegre, RS.

The Coastal Corridor and the projects that compose it are represented, simply, in Figure 9.



Figure 9 - Coastal Corridor (E2)



### 5.2.1 COASTAL CORRIDOR PROJECTS (E2)

Among the main interventions proposed for the improvement of transportation conditions on the Coastal Corridor are the duplication of stretches of the BR-101 road in the Northeast Region (in Alagoas, Sergipe and Bahia) and in Rio de Janeiro, RJ, and its adjustment, also in Northeast states, as well as Santa Catarina and Rio Grande do Sul. The completion of these works will provide an increase in the level of road service and greater comfort for users, as well as a reduction in travel costs and the number of accidents. Also noteworthy are the interventions on the BR-304 (duplication in Rio Grande do Norte) and BR-316 (adjustment and duplication in Pará and Maranhão) roads.

As a project of complementary links of the Coastal Corridor, stand the construction of the High-Speed Rail (HSR) Rio - São Paulo, of Rio de Janeiro - Vitória railway, of South Coastal railway, as well as elimination of bottlenecks along the rail routes that have connection to the corridor. Other interventions along BR-101 (outside the main corridor route) should also be highlighted, including adjustments to existing sections and construction of new sections (in São Paulo and Paraná, in addition to the Bypass in Itaboraí, RJ, and Metropolitan Arch of Recife, PE), the adequacy and duplication of BR 116 passages (in the South and Southeast and also in Bahia) and interventions in the BR-222, BR-226 and BR-104 (all in Northeast Region). Regarding waterway interventions, we highlight the projects on the Rio Grande do Sul waterways, such as the Jacuí and Taquari waterways of Lagoa dos Patos and Guaíba Lake. With regard to airport projects, it is proposed the construction of 14 new airports - highlighting a new airport in the city of São Paulo - and the adjustment of 32 others - with Belém, PA, Curitiba, PR, Joinville, SC, Porto Alegre, RS and Recife, PE having three projects each. Also, the adjustment and construction of several road, rail, waterway and intermodal terminals along the corridor are proposed (totaling 50 new terminals, and interventions in four existing ones).

Table 5 presents the proposed projects for the Coastal Corridor.





Table 5 - List of projects of the Coastal Corridor (E2)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	0031	Expansion of Hugo Cantergiani Regional Airport in Caxias do Sul	1 un	Caxias do Sul, RS	Caxias do Sul, RS
		0325	Expansion of passenger terminal at Pinto Martins Airport in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		0615	Expansion of freight terminal at Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		0616	Expansion of runway at Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		0620	Expansion of cargo terminal at Eurico de Aguiar Salles Airport in Vitória	1 un	Vitória, ES	Vitória, ES
		0963	Expansion of terminal of Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		1499	Expansion of runway at Santa Maria Airport in Aracaju	1 un	Aracaju, SE	Aracaju, SE
		1504	Expansion of runway and aircraft yard system at Freitas Melro Airport in Penedo	1 un	Penedo, AL	Penedo, AL
		1511	Expansion and restoration of passenger terminal at Deputado Luiz Eduardo Magalhães Airport in Salvador	1 un	Salvador, BA	Salvador, BA
		1512	Implementation of 3rd runway at Afonso Pena Airport (Curitiba) in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
		1522	Construction of runway and aircraft yard at Linhares Municipal Airport	1 un	Linhares, ES	Linhares, ES
		1529	Implementation of control tower at Gilberto Freyre Airport (Guararapes) in Recife	1 un	Recife, PE	Recife, PE
		1531	Expansion of passenger terminal at Fernando de Noronha Airport	1 un	Fernando de Noronha, PE	Fernando de Noronha, PE
		1542	Expansion of Arapiraca Airport	1 un	Arapiraca, AL	Arapiraca, AL
1553	Expansion of Porto Seguro Airport	1 un	Porto Seguro, BA	Porto Seguro, BA		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1597	Restoration of the Júlio Cezar Ribeiro Airport (Val de Cans) in Belém	1 un	Belém, PA	Belém, PA
		1607	Restoration of Presidente João Suassuna Airport in Campina Grande	1 un	Campina Grande, PB	Campina Grande, PB
		1608	Expansion of Presidente Castro Pinto (João Pessoa) Airport in Bayeux	1 un	Bayeux, PB	Bayeux, PB
		1613	Expansion of Gilberto Freyre (Guararapes) Airport in Recife	1 un	Recife, PE	Recife, PE
		1615	Restoration of Bacacheri Airport in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		1616	Restoration of Afonso Pena (Curitiba) Airport in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
		1631	Expansion of terminal of Congonhas Airport Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1633	Expansion of Diomício Freitas Airport in Forquilha	1 un	Forquilha, SC	Forquilha, SC
		1636	Expansion of Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
		1638	Expansion of Ministro Victor Konder Airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		1649	Implementation of air navigation groups at Dix-Sept Rosado Airport in Mossoró	1 un	Mossoró, RN	Mossoró, RN
		1653	Expansion of Angra dos Reis Airport	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ
		1654	Expansion of runway and aircraft yard system and passenger terminal at Cabo Frio Airport	1 un	Cabo Frio, RJ	Cabo Frio, RJ
		1655	Expansion of Bartolomeu Lisandro Airport in Campo dos Goytacazes	1 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		1658	Expansion of Maricá Airport	1 un	Maricá, RJ	Maricá, RJ
1659	Expansion of Resende Airport	1 un	Resende, RJ	Resende, RJ		
2872	Restoration of runway system at Congonhas Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	2912	Implementation of equipment and runway system at Jijoca de Jericoacoara Airport	1 un	Jijoca de Jericoacoara, CE	Jijoca de Jericoacoara, CE
		2954	Restoration of runway system at Júlio Cezar Ribeiro Airport (Val de Cans) in Belém	1 un	Belém, PA	Belém, PA
		2960	Repair of runway at Júlio Cezar Ribeiro Airport (Val de Cans) in Belém	1 un	Belém, PA	Belém, PA
		2966	Repair of runway at Gilberto Freyre (Guararapes) Airport in Recife	1 un	Recife, PE	Recife, PE
		2979	Repair of runway at Afonso Pena (Curitiba) Airport in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
		2981	Restoration of runway system at Macaé Airport	1 un	Macaé, RJ	Macaé, RJ
		2982	Repair of runway at Macaé Airport	1 un	Macaé, RJ	Macaé, RJ
		2983	Restoration of passenger terminal at Itaperuna Airport	1 un	Itaperuna, RJ	Itaperuna, RJ
		2996	Expansion of Santa Maria Airport in Aracaju	1 un	Aracaju, SE	Aracaju, SE
		3004	Repair of runway at Presidente Castro Pinto (João Pessoa) Airport in Bayeux	1 un	Bayeux, PB	Bayeux, PB
		3049	Acquisition of fire engines for Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
		3343	Expansion of Santa Cruz do Sul Airport	1 un	Santa Cruz do Sul, RS	Santa Cruz do Sul, RS
		3346	Repair of runway at Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
		3347	Repair of runway at Ministro Victor Konder Airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		3351	Restoration of runway system at Professor Urbano Ernesto Stumpf Airport in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP
3352	Expansion of passenger terminal and aircraft yard at Professor Urbano Ernesto Stumpf Airport in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport construction	0298	Construction of new passenger terminal at Hercílio Luz Airport in Florianópolis	1 un	Florianópolis, SC	Florianópolis, SC
		1508	Construction of new airport in Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1509	Airport construction in Caxias do Sul (Vila Oliva Airport)	1 un	Caxias do Sul, RS	Caxias do Sul, RS
		1543	Construction of new passenger terminal and expansion of aircraft yard at Zumbi dos Palmares (Maceió) Airport in Rio Largo	1 un	Rio Largo, AL	Rio Largo, AL
		1544	Construction of Maragogi Airport	1 un	Maragogi, AL	Maragogi, AL
		1605	Construction of Araruna Airport	1 un	Araruna, PB	Araruna, PB
		1624	Construction of Canindé de São Francisco Airport	1 un	Canindé de São Francisco, SE	Canindé de São Francisco, SE
		1632	Construction of new airport in São Paulo	1 un	Caieiras, SP	Caieiras, SP
		1637	Construction of new airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		1662	Construction of airport in Volta Redonda	1 un	Volta Redonda, RJ	Volta Redonda, RJ
		1672	Construction of aerodrome in Luzilândia	1 un	Luzilândia, PI	Luzilândia, PI
		1677	Construction of aerodrome in Pedro II	1 un	Pedro II, PI	Pedro II, PI
		1679	Construction of aerodrome in Piracuruca	1 un	Piracuruca, PI	Piracuruca, PI
		1680	Construction of aerodrome in Piripiri	1 un	Piripiri, PI	Piripiri, PI
		3372	Implementation of provisional operations module at Jorge Amado Airport in Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
Rail	Railway construction	0032	Construction of Curitiba Rail Bypass	51,5 km	Araucária, PR	São José dos Pinhais, PR
		0044	Construction of rail branch line in Siderópolis	12,0 km	Treviso, SC	Siderópolis, SC
		0045	Construction of South Coastal Railway from Araquari to Imbituba	270,0 km	Araquari, SC	Imbituba, SC

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Railway construction	0613	Construction of rail link from Crateús to Piquet Carneiro	181,1 km	Crateús, CE	Piquet Carneiro, CE
		1367	Construction of Rio de Janeiro-Vitória railway from Nova Iguaçu to São Francisco de Itabapoana	422,3 km	Nova Iguaçu, RJ	São Francisco de Itabapoana, RJ
		1368	Construction of Rio de Janeiro-Vitória Railway from Presidente Kennedy to Cariacica	155,5 km	Presidente Kennedy, ES	Cariacica, ES
		1369	Construction of Northern Coastal Railway from Teixeira de Freitas to Mucuri	107,0 km	Teixeira de Freitas, BA	Mucuri, BA
		1370	Construction of North Coastal Railway from Pedro Canário to Aracruz	208,0 km	Pedro Canário, ES	Aracruz, ES
		1411	Construction of rail link from Açu to Mossoró	73,8 km	Açu, RN	Mossoró, RN
		1412	Construction of rail link from Jucurutu to Porto do Mangue	115,0 km	Jucurutu, RN	Porto do Mangue, RN
		1429	Construction of rail link from Lages to Tubarão	200,0 km	Lages, SC	Tubarão, SC
		1440	Construction of South Coastal railway from Porto Alegre to Torres	209,4 km	Porto Alegre, RS	Torres, RS
		1441	Construction of South Coastal Railway from Passo de Torres to Içara	100,6 km	Passo de Torres, SC	Içara, SC
		1469	Construction of South Coastal Railway from Paranaguá to Guaratuba	55,9 km	Paranaguá, PR	Guaratuba, PR
		1470	Construction of South Coastal Railway from Garuva to São Francisco do Sul	27,9 km	Garuva, SC	São Francisco do Sul, SC
		1483	Construction of rail access to Mine 101 in Içara	4,5 km	Içara, SC	Içara, SC
		1484	Construction of rail access to Maracajá Mine	12,0 km	Içara, SC	Maracajá, SC
		1485	Construction of rail access to Lauro Müller Mines	12,0 km	Lauro Muller, SC	Treviso, SC
		1717	Construction of Sobral Rail Bypass	14,1 km	Sobral, CE	Sobral, CE
1731	Construction of Macaé Rail Bypass	13,5 km	Macaé, RJ	Macaé, RJ		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Railway construction	1732	Construction of Campos dos Goytacazes Rail Bypass	22,0 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		1734	Construction of branch line from Aparecida to Canas	35,5 km	Aparecida, SP	Canas, SP
		3052	Construction of Ferrovia do Sal Railway from Mossoró to Macau	115,4 km	Mossoró, RN	Macau, RN
		3057	Construction of rail link from Parnaíba to Luís Correia	14,8 km	Parnaíba, PI	Luís Correia, PI
	Construction of HSR	1365	Construction of Rio-São Paulo high-speed rail (HSR) from Campinas to Queluz	323,0 km	Campinas, SP	Queluz, SP
		1366	Construction of Rio-São Paulo high-speed rail (HSR) from Resende to Rio de Janeiro	187,8 km	Resende, RJ	Rio de Janeiro, RJ
	Elimination of bottlenecks	2997	Removal of level crossing in Simões Filho	1 un	Simões Filho, BA	Simões Filho, BA
		3087	Removal of right of way intrusions in Simões Filho	2 un	Simões Filho, BA	Simões Filho, BA
		3088	Removal of right of way intrusions in Fortaleza	7 un	Fortaleza, CE	Fortaleza, CE
		3089	Removal of right of way intrusions in Sobral	4 un	Sobral, CE	Sobral, CE
		3090	Removal of right of way intrusion in Itapipoca	1 un	Itapipoca, CE	Itapipoca, CE
		3091	Removal of right of way intrusions in Cariacica	3 un	Cariacica, ES	Cariacica, ES
		3092	Removal of right of way intrusions in Mimoso do Sul	2 un	Mimoso do Sul, ES	Mimoso do Sul, ES
		3093	Removal of right of way intrusion in Viana	1 un	Viana, ES	Viana, ES
		3094	Removal of right of way intrusion in Vargem Alta	1 un	Vargem Alta, ES	Vargem Alta, ES
		3095	Removal of right of way intrusion in Vila Velha	1 un	Vila Velha, ES	Vila Velha, ES
		3096	Removal of right of way intrusion in Marechal Floriano	1 un	Marechal Floriano, ES	Marechal Floriano, ES
		3097	Removal of right of way intrusion in Atílio Vivacqua	1 un	Atílio Vivacqua, ES	Atílio Vivacqua, ES
	3186	Removal of right of way intrusions in Imbituba	2 un	Imbituba, SC	Imbituba, SC	

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Elimination of bottlenecks	3187	Removal of right of way intrusions in Laguna	5 un	Laguna, SC	Laguna, SC
		3188	Removal of right of way intrusion in Tubarão	1 un	Tubarão, SC	Tubarão, SC
		3189	Removal of right of way intrusion in Jaguaruna	1 un	Jaguaruna, SC	Jaguaruna, SC
		3190	Removal of right of way intrusion in Içara	1 un	Içara, SC	Içara, SC
		3201	Removal of right of way intrusions in Campina Grande	5 un	Campina Grande, PB	Campina Grande, PB
		3202	Removal of right of way intrusion in Queimadas	1 un	Queimadas, PB	Queimadas, PB
		3203	Removal of right of way intrusions in Itabaiana	2 un	Itabaiana, PB	Itabaiana, PB
		3204	Removal of right of way intrusion in Santa Rita	1 un	Santa Rita, PB	Santa Rita, PB
		3205	Removal of right of way intrusion in Cabo de Santo Agostinho	1 un	Cabo de Santo Agostinho, PE	Cabo de Santo Agostinho, PE
		3206	Removal of right of way intrusions in Camaragibe	2 un	Camaragibe, PE	Camaragibe, PE
		3207	Removal of right of way intrusion in Aliança	1 un	Aliança, PE	Aliança, PE
		3212	Removal of right of way intrusions in Campos dos Goytacazes	14 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		3213	Removal of right of way intrusion in Carapebus	1 un	Carapebus, RJ	Carapebus, RJ
		3214	Removal of right of way intrusions in Macaé	4 un	Macaé, RJ	Macaé, RJ
		3215	Removal of right of way intrusion in Casimiro de Abreu	1 un	Casimiro de Abreu, RJ	Casimiro de Abreu, RJ
		3216	Removal of right of way intrusion in Silva Jardim	1 un	Silva Jardim, RJ	Silva Jardim, RJ
		3217	Removal of right of way intrusions in Rio Bonito	4 un	Rio Bonito, RJ	Rio Bonito, RJ
		3218	Removal of right of way intrusion in Itaboraí	1 un	Itaboraí, RJ	Itaboraí, RJ
		3235	Removal of level crossings in Tumiritinga	2 un	Tumiritinga, MG	Tumiritinga, MG
		3236	Removal of level crossing in Conselheiro Pena	1 un	Conselheiro Pena, MG	Conselheiro Pena, MG



Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Elimination of bottlenecks	3238	Removal of level crossings in Aimorés	3 un	Aimorés, MG	Aimorés, MG
		3246	Removal of level crossing in Carpina	1 un	Carpina, PE	Carpina, PE
		3247	Removal of level crossing in São Lourenço da Mata	1 un	São Lourenço da Mata, PE	São Lourenço da Mata, PE
		3248	Removal of level crossing in Camaragibe	1 un	Camaragibe, PE	Camaragibe, PE
		3255	Removal of level crossing in Siderópolis	1 un	Siderópolis, SC	Siderópolis, SC
		3256	Removal of level crossings in Criciúma	4 un	Criciúma, SC	Criciúma, SC
		3257	Removal of level crossings in Içara	3 un	Içara, SC	Içara, SC
		3258	Removal of level crossing in Teresina	1 un	Teresina, PI	Teresina, PI
		3259	Removal of level crossings in Altos	2 un	Altos, PI	Altos, PI
		3263	Removal of level crossing in Baixo Guandu	1 un	Baixo Guandu, ES	Baixo Guandu, ES
		3264	Removal of level crossings in Cariacica	3 un	Cariacica, ES	Cariacica, ES
		3265	Removal of level crossing in Tamboril	1 un	Tamboril, CE	Tamboril, CE
		3266	Removal of level crossing in Ipu	1 un	Ipu, CE	Ipu, CE
		3267	Removal of level crossings in Itapipoca	2 un	Itapipoca, CE	Itapipoca, CE
		3268	Removal of level crossing in Tururu	1 un	Tururu, CE	Tururu, CE
		3269	Removal of level crossing in Umirim	1 un	Umirim, CE	Umirim, CE
		3270	Removal of level crossing in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		3271	Removal of level crossing in Caucaia	1 un	Caucaia, CE	Caucaia, CE
		3272	Removal of level crossings in Fortaleza	2 un	Fortaleza, CE	Fortaleza, CE
		3273	Removal of level crossing in Triunfo	1 un	Triunfo, PB	Triunfo, PB
3274	Removal of level crossings in São João do Rio do Peixe	2 un	São João do Rio do Peixe, PB	São João do Rio do Peixe, PB		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Elimination of bottlenecks	3275	Removal of level crossing in Sousa	1 un	Sousa, PB	Sousa, PB
		3276	Removal of level crossing in São José de Espinharas	1 un	São José de Espinharas, PB	São José de Espinharas, PB
		3277	Removal of level crossing in Cacimba de Areia	1 un	Cacimba de Areia, PB	Cacimba de Areia, PB
		3278	Removal of level crossings in Areia de Baraúnas	2 un	Areia de Baraúnas, PB	Areia de Baraúnas, PB
		3279	Removal of level crossing in Assunção	1 un	Assunção, PB	Assunção, PB
		3280	Removal of level crossing in Juazeirinho	1 un	Juazeirinho, PB	Juazeirinho, PB
		3281	Removal of level crossing in Pocinhos	1 un	Pocinhos, PB	Pocinhos, PB
		3282	Removal of level crossing in Ingá	1 un	Ingá, PB	Ingá, PB
		3283	Removal of level crossing in Mogeiro	1 un	Mogeiro, PB	Mogeiro, PB
		3297	Removal of level crossing in Piraquara	1 un	Piraquara, PR	Piraquara, PR
		3298	Removal of level crossing in Morretes	1 un	Morretes, PR	Morretes, PR
		3299	Removal of level crossings in Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR
		3333	Removal of right of way intrusions in São Lourenço da Mata	2 un	São Lourenço da Mata, PE	São Lourenço da Mata, PE
		Restoration of railway	1400	Restoration of rail link from Campina Grande to Cabedelo	170,0 km	Campina Grande, PB
1405	Restoration of passenger train railway from Recife to Caruaru		139,0 km	Recife, PE	Caruaru, PE	
1406	Restoration of railway from Altos to Parnaíba		275,2 km	Altos, PI	Parnaíba, PI	
1408	Restoration of passenger train railway from Campos dos Goytacazes to Macaé		149,0 km	Campos dos Goytacazes, RJ	Macaé, RJ	
1409	Restoration of passenger train railway from Mangaratiba to Santa Cruz		49,0 km	Mangaratiba, RJ	Rio de Janeiro, RJ	
1410	Restoration of Ferrovia do Sal Railway from Macau to Natal		284,6 km	Macau, RN	Natal, RN	

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Restoration of railway	1428	Restoration of rail link from Imituba to Urussanga	200,0 km	Imbituba, SC	Urussanga, SC
		1433	Restoration of passenger train railway from São Cristóvão to Laranjeiras	40,0 km	São Cristóvão, SE	Laranjeiras, SE
		1456	Restoration of the rail link between Iguatama and Barra Mansa from Iguatama to Passa-Vinte	385,1 km	Iguatama, MG	Passa-Vinte, MG
		1457	Restoration of the rail link between Iguatama and Barra Mansa from Quatis to Barra Mansa	34,9 km	Quatis, RJ	Barra Mansa, RJ
		1764	Restoration of railway in Barra Mansa	5,8 km	Barra Mansa, RJ	Barra Mansa, RJ
		1922	Restoration of rail link from Barra Mansa to Angra dos Reis	108,0 km	Barra Mansa, RJ	Angra dos Reis, RJ
		3067	Restoration of passenger train railway from Teresina to Altos	45,6 km	Teresina, PI	Altos, PI
Waterway	Channel opening	1341	Channel opening on Jesuítas Queimados waterway to Rio de Janeiro	35,4 km	Queimados, RJ	Rio de Janeiro, RJ
	Waterway adjustment	0218	Dredging, signaling and beacon installation of the Jacuí River Waterway from Cachoeira do Sul to Porto Alegre	330,0 km	Cachoeira do Sul, RS	Porto Alegre, RS
		0220	Adjustment of Santa Vitória do Palmar Mirim Lagoon Waterway to Rio Grande	202,0 km	Santa Vitória do Palmar, RS	Rio Grande, RS
		0232	Adjustment of São Gonçalo Channel from Rio Grande to Pelotas	70,0 km	Rio Grande, RS	Pelotas, RS
		0440	Dredging, signaling and beacon installation at Taquari River waterway from Estrela to Triunfo	86,0 km	Estrela, RS	Triunfo, RS
		1317	Adjustment of the Capim River waterway from Paragominas to São Domingos do Capim	355,0 km	Paragominas, PA	São Domingos do Capim, PA
		1318	Adjustment of the Guamá River Waterway from São Miguel do Guamá to Barcarena	157,0 km	São Miguel do Guamá, PA	Barcarena, PA

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	2934-INT	Dredging of the São Francisco River Waterway from Penedo to Neópolis and from Pão de Açúcar to Porto da Folha	3,5 km	Penedo, AL	Porto da Folha, SE
		2937	Dredging, signaling and beacon installation of the Caí River Waterway from São Sebastião do Caí to Triunfo	75,0 km	São Sebastião do Caí, RS	Triunfo, RS
		2939	Dredging, signaling and beacon installation at São Leopoldo a Canoas Sinos River Waterway	44,0 km	São Leopoldo, RS	Canoas, RS
		2941	Dredging, signaling and beacon installation at Gravataí River waterway from Cachoeirinha to Porto Alegre	15,0 km	Cachoeirinha, RS	Porto Alegre, RS
		2942	Dredging, signaling and beacon installation at waterways of Lago Guaíba, Lagoa dos Patos and Lagoa do Casamento from Porto Alegre to Rio Grande	525,0 km	Porto Alegre, RS	Rio Grande, RS
	Waterway adjustment	2948	Dredging, signaling and beacon installation at Jaguarão River waterway in Jaguarão	40,0 km	Jaguarão, RS	Jaguarão, RS
		0206	Modernization of Amarópolis sluice on Jacuí River waterway	1 un	General Câmara, RS	Butiá, RS
	Cargo riverboat	0207	Modernization of Fandango sluice on Jacuí River waterway	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS
		0507	Modernization of Anel de Dom Marco sluice on Jacuí River waterway	1 un	Rio Pardo, RS	Rio Pardo, RS
		1273	Construction of the Funil sluice on the Paraíba do Sul River waterway	1 un	Resende, RJ	Itatiaia, RJ
		1274-INT	Construction of Ilha dos Pombos sluice on the Paraíba do Sul River waterway	1 un	Carmo, RJ	Além Paraíba, MG
		1275	Construction of Itaocara sluice on Paraíba do Sul River waterway	1 un	Itaocara, RJ	Aperibé, RJ
		1276	Construction of Santa Branca sluice on Paraíba do Sul River waterway	1 un	Jacareí, SP	Santa Branca, SP

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Waterway	Cargo riverboat	1277-INT	Construction of Simplicio sluice on Paraíba do Sul River waterway	1 un	Chiador, MG	Sapucaia, RJ	
		1294	Construction of Barra do Pomba sluice on Paraíba do Sul River waterway	1 un	Itaocara, RJ	Cambuci, RJ	
		1295	Construction of Cambuci sluice on Paraíba do Sul River waterway	1 un	São Fidélis, RJ	Cambuci, RJ	
		2935	Modernization of Bom Retiro do Sul sluice on Taquari River waterway	1 un	Bom Retiro do Sul, RS	Cruzeiro do Sul, RS	
		2949	Construction of dam and sluice on Taquari River waterway	1 un	Venâncio Aires, RS	Taquari, RS	
		3077	Duplication of Amarópolis sluice on Jacuí River waterway	1 un	General Câmara, RS	Butiá, RS	
	Transposition device	3078	Duplication of Anel de Dom Marco sluice on Jacuí River waterway	1 un	Rio Pardo, RS	Pantano Grande, RS	
		3080	Duplication of Bom Retiro do Sul sluice on Taquari River waterway	1 un	Bom Retiro do Sul, RS	Cruzeiro do Sul, RS	
	Road	Adjustment of duplication	0805	Implementation of additional lane on RST-287/BR-287 road from Montenegro to Triunfo	19,0 km	Montenegro, RS	Triunfo, RS
			1158	Adjustment of Curitiba South Bypass on BR-376	14,6 km	Curitiba, PR	Curitiba, PR
2150			Construction of Gancho Flyover on BR-101 from Natal to São Gonçalo do Amarante	2,6 km	Natal, RN	São Gonçalo do Amarante, RN	
2152			Construction of flyovers on BR-101 from Natal to Parnamirim	16,9 km	Natal, RN	Parnamirim, RN	
2316			Implementation of additional lane on BR-423 road from Canapi to Ouro Branco	26,0 km	Ouro Branco, AL	Canapi, AL	
2321			Implementation of additional lane on BR-342 in Nova Venécia	20,0 km	Nova Venécia, ES	Nova Venécia, ES	
2335			Implementation of additional lane on the BR-104 road from Nova Floresta to Alcantil	130,0 km	Nova Floresta, PB	Alcantil, PB	

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Adjustment of duplication	2341	Implementation of additional lane on BR-423 road from Garanhuns to Itaíba	79,0 km	Garanhuns, PE	Itaíba, PE
		2342	Implementation of additional lane on BR-424 road from Arcoverde to Correntes	105,0 km	Arcoverde, PE	Correntes, PE
		2349	Implementation of additional lane on BR-354 in Resende	27,0 km	Resende, RJ	Resende, RJ
		2352	Implementation of additional lane on RJ-155/BR-494 road from Rio Claro to Angra dos Reis	38,0 km	Rio Claro, RJ	Angra dos Reis, RJ
		2365	Implementation of signs on BR-459 from Piquete to Lorena	32,6 km	Piquete, SP	Lorena, SP
		2370	Implementation of additional lane on BR-110 road from Pojuca to São Sebastião do Passé	23,0 km	Pojuca, BA	São Sebastião do Passé, BA
	Road adjustment	2371	Implementation of additional lane on BR-110 road from Jeremoabo to Ribeira do Pombal	64,0 km	Jeremoabo, BA	Ribeira do Pombal, BA
		2459	Implementation of signs on BA-263 from Floresta Azul to Vitória da Conquista	187,4 km	Floresta Azul, BA	Vitória da Conquista, BA
		2460	Implementation of signs on CE-155 in Caucaia	9,0 km	Caucaia, CE	Caucaia, CE
		2479	Implementation of signs on PR-410 from Quatro Barras to Morretes	19,5 km	Quatro Barras, PR	Morretes, PR
		2531	Implementation of additional lane on BR-020 from Pedra Branca a Caucaia	138,0 km	Pedra Branca, CE	Caucaia, CE
		2535	Implementation of signs on BR-262 from Vitória to Cariacica	5,5 km	Vitória, ES	Cariacica, ES
		2554	Implementation of signs on BR-101 from Santa Rita to Caaporã	47,7 km	Santa Rita, PB	Caaporã, PB
		2556	Implementation of additional lane on BR-104 from Caruaru to Quipapá	69,0 km	Caruaru, PE	Quipapá, PE
		2557	Implementation of signs on BR-232 from Recife to Caruaru	136,3 km	Recife, PE	Caruaru, PE

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	2565	Implementation of signs on BR-476 in Curitiba	13,5 km	Curitiba, PR	Curitiba, PR
		2567	Implementation of signs on BR-101 from São Gonçalo do Amarante to Parnamirim	22,5 km	São Gonçalo do Amarante, RN	Parnamirim, RN
		2573	Implementation of signs on BR-235 from Aracaju to Nossa Senhora do Socorro	4,5 km	Aracaju, SE	Nossa Senhora do Socorro, SE
		2584	Implementation of signs on BR-226 from Janduís to Antônio Martins	58,4 km	Janduís, RN	Antônio Martins, RN
		2589	Implementation of additional lane on BR-316 from Peritoró to Timon	90,0 km	Peritoró, MA	Timon, MA
		2590	Implementation of signs on BR-316 from Monção to Alto Alegre do Maranhão	127,3 km	Monção, MA	Alto Alegre do Maranhão, MA
		2593	Implementation of additional lane on BR-282 from Palhoça to Bocaina do Sul	40,0 km	Palhoça, SC	Bocaina do Sul, SC
		2607	Implementation of signs on BR-418 from Caravelas to Mucuri	123,4 km	Caravelas, BA	Mucuri, BA
		2608	Implementation of additional lane on BR-420 from Laje to Jaguaquara	112,0 km	Laje, BA	Jaguaquara, BA
		2612	Implementation of additional lane on EST-484/BR-484 from Guaçuí to Bom Jesus do Norte	30,0 km	Guaçuí, ES	Bom Jesus do Norte, ES
		2627	Implementation of additional lane on MGT-482/BR-482 from Espera Feliz to Fervedouro	64,0 km	Espera Feliz, MG	Fervedouro, MG
		2643	Implementation of signs on BR-010 from Dom Eliseu to Santa Maria do Pará	356,2 km	Dom Eliseu, PA	Santa Maria do Pará, PA
		2713	Implementation of signs on BR-403, CE-183 / BR-403, CE-366 / BR-403 and CE-329 / BR-403 from Sobral to Ipu	86,7 km	Sobral, CE	Ipu, CE
		2719	Implementation of signs on BR-402 road from Parnaíba to Luís Correia	65,7 km	Parnaíba, PI	Luís Correia, PI
2833	Construction of 2nd bridge on BR-116 over Guaíba River in Porto Alegre	12,3 km	Porto Alegre, RS	Porto Alegre, RS		



Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3422	Implementation of signs on BR-104 from Rio Largo to Maceió	15,5 km	Rio Largo, AL	Maceió, AL
		3424	Implementation of signs on BR-235 from Itabaiana to Frei Paulo	32,3 km	Itabaiana, SE	Frei Paulo, SE
		3425	Implementation of additional lane on BR-235 road from Frei Paulo to Carira	19,0 km	Frei Paulo, SE	Carira, SE
		3426	Implementation of additional lane on BR-316 from Canapi to Pilar	152,7 km	Canapi, AL	Pilar, AL
		3427	Implementation of signs on BR-316 from Pilar to Maceió	32,4 km	Pilar, AL	Maceió, AL
		3428	Implementation of additional lane on BR-416 from Novo Lino to São José da Laje	28,0 km	Novo Lino, AL	São José da Laje, AL
		3429	Implementation of signs on BR-101 from Laranjeiras to Itaporanga d'Ajuda	36,9 km	Laranjeiras, SE	Itaporanga d'Ajuda, SE
		3431	Implementation of signs on BR-423 from Delmiro Gouveia to Canapi	74,6 km	Canapi, AL	Delmiro Gouveia, AL
		3432	Implementation of signs on BR-424 from Satuba to Marechal Deodoro	16,3 km	Satuba, AL	Marechal Deodoro, AL
		3438	Implementation of signs on SE-226 from Barra dos Coqueiros to Maruim	20,5 km	Barra dos Coqueiros, SE	Maruim, SE
		3439	Construction of flyover between BR-104 and BR-316 in Maceió	1,6 km	Maceió, AL	Maceió, AL
		3440	Implementation of signs on SE-270 from Lagarto to Simão Dias	42,2 km	Lagarto, SE	Simão Dias, SE
		3442	Implementation of signs on SE-318 from Estância to Indiaroba	38,0 km	Estância, SE	Indiaroba, SE
		3448	Implementation of additional lane on BR-226 from Triunfo Potiguar to Augusto Severo	10,0 km	Triunfo Potiguar, RN	Augusto Severo, RN
		3461	Implementation of additional lane on BR-104 from Currais Novos to Campo Redondo	27,0 km	Currais Novos, RN	Campo Redondo, RN

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
		3468	Implementation of additional lane on BR-427 from Currais Novos to Caicó	80,0 km	Currais Novos, RN	Caicó, RN
		3470	Implementation of signs on RN-023 road from Santa Cruz to Colonel Ezequiel	32,6 km	Santa Cruz, RN	Coronel Ezequiel, RN
		3471	Implementation of signs on RN-405 from Upanema to Mossoró	20,9 km	Upanema, RN	Mossoró, RN
		3474	Implementation of signs on BR-110 from Paulo Afonso to Jeremoabo	76,6 km	Paulo Afonso, BA	Jeremoabo, BA
		3475	Implementation of signs on BR-110 from Ribeira do Pombal to Olindina	70,0 km	Ribeira do Pombal, BA	Olindina, BA
		3478	Implementation of signs on BR-222 from Batalha to São João do Arraial	55,4 km	Batalha, PI	São João do Arraial, PI
		3491	Implementation of signs on BR-343 from Parnaíba to Altos	269,1 km	Parnaíba, PI	Altos, PI
Road	Road adjustment	3495	Implementation of signs on BR-402 from Buriti dos Lopes to Parnaíba	13,5 km	Buriti dos Lopes, PI	Parnaíba, PI
		3498	Implementation of signs on BR-404 from Piripiri to Pedro II	53,8 km	Piripiri, PI	Pedro II, PI
		3499	Implementation of additional lane on BR-404 from Pedro II to Milton Brandão	12,0 km	Pedro II, PI	Pedro II, PI
		3504	Implementation of additional lane on BA-130 / BR-330 from Maracás to Jequié	59,0 km	Maracás, BA	Jequié, BA
		3510	Implementation of signs on BR-367 from Santa Cruz Cabralia to Eunápolis	83,7 km	Santa Cruz Cabralia, BA	Eunápolis, BA
		3515	Implementation of signs on BR-101 from Goiana to Igarassu	41,4 km	Goiana, PE	Igarassu, PE
		3516	Implementation of signs on BR-101 from Cabo de Santo Agostinho to Palmares	88,7 km	Cabo de Santo Agostinho, PE	Palmares, PE
		3526	Implementation of signs on BAT-415 / BR-415 from Itabuna to the Floresta Azul	43,4 km	Itabuna, BA	Floresta Azul, BA

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3530	Implementation of signs on BR-498 from Porto Seguro to Itamaraju	14,0 km	Porto Seguro, BA	Itamaraju, BA
		3538	Implementation of additional lane on BR-408 from Timbaúba to Carpina	30,0 km	Timbaúba, PE	Carpina, PE
		3539	Implementation of signs on BR-408 from Carpina to Jaboatão dos Guararapes	41,1 km	Carpina, PE	Jaboatão dos Guararapes, PE
		3542	Implementation of signs on PE-024, PE-028 and PE-060 from Cabo de Santo Agostinho to Barreiros	83,1 km	Cabo de Santo Agostinho, PE	Barreiros, PE
		3544	Implementation of signs on PE-126 from Palmares to Quipapá	54,2 km	Palmares, PE	Quipapá, PE
		3548	Implementation of signs on PE-090 from Carpina to Vertentes	93,4 km	Carpina, PE	Vertentes, PE
		3551	Adjustment of BR-101 road from Santa Rita to Caaporã	54,9 km	Santa Rita, PB	Caaporã, PB
		3552	Adjustment of crossing on BR-222 in Tianguá	6,3 km	Tianguá, CE	Tianguá, CE
		3563	Implementation of signs on PB-066 / BR-408 from Ingá to Juripiranga	53,4 km	Ingá, PB	Juripiranga, PB
		3574	Implementation of signs on CE-040 from Eusébio to Aracati	125,7 km	Eusébio, CE	Aracati, CE
		3577	Implementation of signs on CE-085 from Cruz to Granja	64,9 km	Cruz, CE	Granja, CE
		3581	Implementation of signs on CE-341 in Paracuru	14,1 km	Paracuru, CE	Paracuru, CE
		3584	Implementation of signs on CE-348 in Caucaia	17,5 km	Caucaia, CE	Caucaia, CE
		3586	Implementation of signs on CE-362 from Granja to Sobral	99,4 km	Granja, CE	Sobral, CE
		3590	Implementation of signs on BR-226 from Matões to Grajaú	312,7 km	Matões, MA	Grajaú, MA
		3596	Implementation of signs on MA-106 and MA-106 / BR-308 in Alcântara	56,7 km	Alcântara, MA	Alcântara, MA
		3598	Implementation of signs on BR-316 from Boa Vista do Gurupi to Governador Nunes Freire	67,2 km	Boa Vista do Gurupi, MA	Governador Nunes Freire, MA

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3608	Implementation of additional lane on ES-381 / BR-381 from Nova Venécia to Águia Branca	10,0 km	Nova Venécia, ES	Águia Branca, ES
		3610	Implementation of additional lane on BR-393 from Cachoeiro de Itapemirim to Muqui	10,0 km	Cachoeiro de Itapemirim, ES	Muqui, ES
		3611	Implementation of additional lane on BR-482 from Alegre to Dores do Rio Preto	21,1 km	Alegre, ES	Dores do Rio Preto, ES
		3612	Implementation of signs on BR-101 in Ubatuba	52,2 km	Ubatuba, SP	Ubatuba, SP
		3613	Adjustment of crossing on BR-101 in Ubatuba	9,5 km	Ubatuba, SP	Ubatuba, SP
		3614	Implementation of signs on SP-055/BR-101 from Ubatuba to Caraguatatuba	49,1 km	Ubatuba, SP	Caraguatatuba, SP
		3622	Implementation of signs on ES-490 from Itapemirim to Marataízes	32,4 km	Itapemirim, ES	Marataízes, ES
		3657	Implementation of signs on BR-383 from Campos do Jordão to Pindamonhangaba	21,4 km	Campos do Jordão, SP	Pindamonhangaba, SP
		3658	Implementation of additional lane on SP-125/BR-383 from Taubaté to Ubatuba	20,0 km	Taubaté, SP	Ubatuba, SP
		3664	Implementation of signs on SP-098 from Mogi das Cruzes to Bertioga	41,3 km	Mogi das Cruzes, SP	Bertioga, SP
		3689	Implementation of signs on BR-040 and BR-101 in Rio de Janeiro	16,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3691	Implementation of signs on BR-493 from Duque de Caxias to Itaguaí	75,0 km	Duque de Caxias, RJ	Itaguaí, RJ
		3692	Construction of ramps on flyover between BR-101 and BR-493 in Itaguaí	1,0 km	Itaguaí, RJ	Itaguaí, RJ
		3694	Construction of flyovers on cloverstack interchange on BR-101 leading to Santa Cruz Industrial District in Rio de Janeiro	1,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
3696	Implementation of signs on BR-356 from Campos dos Goytacazes to São João da Barra	40,3 km	Campos dos Goytacazes, RJ	São João da Barra, RJ		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3697	Implementation of additional lane on RJ-165/BR-459 road in Parati	12,0 km	Parati, RJ	Parati, RJ
		3698	Implementation of signs on RJ-155 from Barra Mansa to Rio Claro	20,6 km	Barra Mansa, RJ	Rio Claro, RJ
		3699	Implementation of signs on BR-465 from Seropédica to Rio de Janeiro	20,4 km	Seropédica, RJ	Rio de Janeiro, RJ
		3700	Implementation of signs on RJ-106 and RJ-140 / BR-120 from São Gonçalo to Arraial do Cabo	134,6 km	São Gonçalo, RJ	Arraial do Cabo, RJ
		3709	Implementation of additional lane on BR-495 from Teresópolis to Petrópolis	31,0 km	Teresópolis, RJ	Petrópolis, RJ
		3710	Implementation of signs on RJ-130 in Teresópolis	22,7 km	Teresópolis, RJ	Teresópolis, RJ
		3712	Implementation of additional lane on RJ-130/BR-492 road from Nova Friburgo to Teresópolis	36,0 km	Nova Friburgo, RJ	Teresópolis, RJ
		3715	Implementation of signs on RJ-158 and RJ-158 / BR-492 from Campos dos Goytacazes to São Fidélis	61,7 km	Campos dos Goytacazes, RJ	São Fidélis, RJ
		3731	Increase in number of traffic lanes on BR-101 road from Palhoça to Passo de Torres	220,4 km	Palhoça, SC	Passo de Torres, SC
		3735	Construction of tunnel through Morro dos Cavalos on BR-101 in Palhoça	2,2 km	Palhoça, SC	Palhoça, SC
		3753	Adjustment of Florianópolis Expressway on BR-282	5,2 km	Florianópolis, SC	São José, SC
		3763	Implementation of signs on BR-393 from Pirapetinga to Volta Grande	27,3 km	Pirapetinga, MG	Volta Grande, MG
		3767	Implementation of additional lane on MGT-418/BR-418 from Nanuque to Teófilo Otoni	86,0 km	Nanuque, MG	Teófilo Otoni, MG
		3779	Implementation of signs on BR-101 from Dom Pedro de Alcântara to Terra de Areia	30,3 km	Dom Pedro de Alcântara, RS	Terra de Areia, RS

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3796	Adjustment of BR-116 from Novo Hamburgo to Porto Alegre	32,7 km	Novo Hamburgo, RS	Porto Alegre, RS
		3835	Implementation of signs on BR-285 from São José dos Ausentes to Vacaria	105,0 km	São José dos Ausentes, RS	Vacaria, RS
		3871	Implementation of signs on RST-453 / BR-453 from Farroupilha to Caxias do Sul	17,8 km	Farroupilha, RS	Caxias do Sul, RS
		3904	Implementation of signs on RS-030 and RS-786 from Osório to Tramandaí	20,0 km	Osório, RS	Tramandaí, RS
		3905	Implementation of signs on RS-040 from Porto Alegre to Viamão	11,8 km	Porto Alegre, RS	Viamão, RS
		3917	Implementation of signs on BR-010 from Castanhal to Marituba	55,0 km	Castanhal, PA	Marituba, PA
		3964	Construction of bridge on BR-470 over Jacuí River from Triunfo to São Jerônimo	0,9 km	Triunfo, RS	São Jerônimo, RS
		3965	Construction of bridges on ES-381 / BR-381 in state of Espírito Santo	2,0 km	Nova Venécia, ES	Nova Venécia, ES
		3966	Construction of Ponte do Aposento bridge on BR-222 in Batalha	0,1 km	Batalha, PI	Batalha, PI
	Road construction	0922	Construction of BR-101 from Guaraqueçaba to Guaratuba	155,0 km	Guaraqueçaba, PR	Guaratuba, PR
		0923	Construction of SPT-101/BR-101 road from Iguape to Cananéia	76,6 km	Iguape, SP	Cananéia, SP
		0935	Construction of BR-226 from Juazeiro do Piauí to Coivaras	74,8 km	Juazeiro do Piauí, PI	Coivaras, PI
		0951	Construction of BR-342 from Ouro Verde de Minas to Ataléia	43,1 km	Ouro Verde de Minas, MG	Ataléia, MG
		0952	Construction of ES-080/BR-342 road in Ecoporanga	49,6 km	Ecoporanga, ES	Ecoporanga, ES
		0953	Construction of BR-342 from Nova Venécia to Sooretama	84,0 km	Nova Venécia, ES	Sooretama, ES
		2162	Construction of BA-001 from Canavieiras to Belmonte	32,0 km	Canavieiras, BA	Belmonte, BA

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road construction	2163	Construction of BA-001 from Caravelas to Nova Viçosa	22,0 km	Caravelas, BA	Nova Viçosa, BA
		2164	Construction of BA-001 from Porto Seguro to Prado	100,0 km	Porto Seguro, BA	Prado, BA
		2169	Construction of CE-187 from Barroquinha to Viçosa do Ceara	112,5 km	Barroquinha, CE	Viçosa do Ceará, CE
		2173	Construction of BR-308 from Central do Maranhão to Bequimão	35,0 km	Central do Maranhão, MA	Bequimão, MA
		2175	Construction of BR-424 from Chã Preta to Atalaia	50,8 km	Chã Preta, AL	Atalaia, AL
		2176	Construction of AL-225 from Piranhas to São Bras	127,0 km	Piranhas, AL	São Brás, AL
		2177	Construction of the Northeast ramp in Campina Grande	20,0 km	Campina Grande, PB	Campina Grande, PB
		2178	Construction of PB-008 from Lucena to Mataraca	31,8 km	Lucena, PB	Mataraca, PB
		2183	Construction of BR-222 from São João do Arraial to Matias Olímpio	36,3 km	São João do Arraial, PI	Matias Olímpio, PI
		2184	Construction of BR-104 from Campo Redondo to Coronel Ezequiel	15,7 km	Campo Redondo, RN	Coronel Ezequiel, RN
		2185	Construction of BR-104 from Lajes to Cerro Corá	48,7 km	Lajes, RN	Cerro Corá, RN
		2186	Construction of BR-104 from Macau to Pedro Avelino	52,8 km	Macau, RN	Pedro Avelino, RN
		2303	Construction of Itaperuna Bypass on BR-356	12,5 km	Itaperuna, RJ	Itaperuna, RJ
		2305	Construction of BR-393 from Muqui to Bom Jesus do Norte	49,5 km	Muqui, ES	Bom Jesus do Norte, ES
		2307	Construction of Cachoeiro de Itapemirim Bypass on BR-482	5,3 km	Cachoeiro de Itapemirim, ES	Cachoeiro de Itapemirim, ES
		2308	Construction of BR-484 from Colatina to Afonso Cláudio	82,6 km	Colatina, ES	Afonso Cláudio, ES
		2309	Construction of Serra Bypass on BR-101	19,7 km	Serra, ES	Serra, ES
2457	Construction of RS-010 road from Porto Alegre to Sapiranga	42,0 km	Porto Alegre, RS	Sapiranga, RS		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road construction	2810	Implementation of 3rd Ring Road in Curitiba	61,3 km	Curitiba, PR	Curitiba, PR
		3481	Construction of BR-226 road in Buriti dos Montes	37,0 km	Buriti dos Montes, PI	Buriti dos Montes, PI
		3514	Construction of Recife Metropolitan Arch on BR-101	76,0 km	Itapissuma, PE	Cabo de Santo Agostinho, PE
		3541	Construction of side road on BR-116 from Fortaleza to Pacajus	12,0 km	Fortaleza, CE	Pacajus, CE
		3606	Construction of BR-342 from Ecoporanga to Nova Venécia	24,7 km	Ecoporanga, ES	Nova Venécia, ES
		3615	Construction of BR-484 from Afonso Cláudio to Conceição do Castelo	32,5 km	Afonso Cláudio, ES	Conceição do Castelo, ES
		3616	Construction of BR-484 from Muniz Freire to Guaçuí	82,4 km	Muniz Freire, ES	Guaçuí, ES
		3685	Construction of Itaboraí Bypass on BR-101	60,0 km	São Gonçalo, RJ	Rio Bonito, RJ
		3716	Construction of RJ-244 road from Campos dos Goytacazes to São João da Barra	45,0 km	Campos dos Goytacazes, RJ	São João da Barra, RJ
		3726	Construction of new lane on BR-116 in Serra das Araras from Paracambi to Piraí	9,0 km	Paracambi, RJ	Piraí, RJ
	3751	Implementation of 2nd Ring Road in Campina Grande	17,0 km	Campina Grande, PB	Campina Grande, PB	
	3810	Construction of BR-448 from Estância Velha to Esteio	32,0 km	Estância Velha, RS	Esteio, RS	
	Road duplication	0064	Duplication of BR-116 from Mandirituba to Rio Negro	68,1 km	Mandirituba, PR	Rio Negro, PR
		0072	Duplication of BR-101 road in Campos dos Goytacazes	66,2 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		0073	Duplication of BR-116 from Carmo to Teresópolis	91,8 km	Carmo, RJ	Teresópolis, RJ
		0088	Duplication of BR-470 from Indaial to Campos Novos	228,9 km	Indaial, SC	Campos Novos, SC
		0097	Duplication of BR-101 from Propriá to Laranjeiras	77,4 km	Propriá, SE	Laranjeiras, SE
		0197	Duplication of BR-386 from Estrela to Tabaí	34,8 km	Estrela, RS	Tabaí, RS



Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road duplication	0518	Duplication of BR-101 from Porto Real do Colégio to Novo Lino	254,7 km	Novo Lino, AL	Porto Real do Colégio, AL
		0540	Duplication of BR-101 from Rio Real to Mucuri	941,3 km	Rio Real, BA	Mucuri, BA
		0575	Duplication of BR-330 from Jequié to Ubaitaba	102,0 km	Jequié, BA	Ubaitaba, BA
		0579	Duplication of BR-262 from Viana to Iúna	180,6 km	Viana, ES	Iúna, ES
		0595	Duplication of BR-116 from Divisa Alegre to Além Paraíba	816,1 km	Divisa Alegre, MG	Além Paraíba, MG
		0638	Duplication of BR-415 from Ilhéus to Itabuna	32,0 km	Ilhéus, BA	Itabuna, BA
		0708	Duplication of BR-304 from Tibau to Macaíba	264,6 km	Tibau, RN	Macaíba, RN
		0711	Duplication of BR-423 from São Caitano to Garanhuns	80,3 km	São Caitano, PE	Garanhuns, PE
		2151	Duplication of BR-226 from Natal to Campo Redondo	133,3 km	Natal, RN	Campo Redondo, RN
		2190	Duplication of BR-020 from Caucaia to Eusébio	37,9 km	Caucaia, CE	Eusébio, CE
		2208	Duplication of BR-222 from Miranda do Norte to Açailândia	424,3 km	Miranda do Norte, MA	Açailândia, MA
		2209	Duplication of BR-135 from Alto Alegre do Maranhão to Peritoró	24,9 km	Alto Alegre do Maranhão, MA	Peritoró, MA
		2212	Duplication of BR-235 from Nossa Senhora do Socorro to Itabaiana	44,0 km	Nossa Senhora do Socorro, SE	Itabaiana, SE
		2289	Duplication of BR-280 from São Francisco do Sul to Jaraguá do Sul	73,9 km	São Francisco do Sul, SC	Jaraguá do Sul, SC
		2292	Duplication of BR-282 road from Bocaina do Sul to Lages	56,4 km	Bocaina do Sul, SC	Lages, SC
		2294	Duplication of BR-290 from Eldorado do Sul to Cachoeira do Sul	155,6 km	Eldorado do Sul, RS	Cachoeira do Sul, RS
		2295	Duplication of RS-030 road from Gravataí to Santo Antônio da Patrulha	51,5 km	Gravataí, RS	Santo Antônio da Patrulha, RS
2310	Duplication of BR-493 from Itaboraí to Magé	25,7 km	Itaboraí, RJ	Magé, RJ		
2314	Duplication of BR-356 from Itaperuna to Cardoso Moreira	94,8 km	Itaperuna, RJ	Cardoso Moreira, RJ		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
		2331	Duplication of BR-393 from Volta Grande to Além Paraíba	18,3 km	Volta Grande, MG	Além Paraíba, MG
		2337	Duplication of BR-104 from Taquaritinga do Norte to Caruaru	51,4 km	Taquaritinga do Norte, PE	Caruaru, PE
		2351	Duplication of BR-393 from Bom Jesus do Itabapoana to Santo Antônio de Pádua	102,2 km	Bom Jesus do Itabapoana, RJ	Santo Antônio de Pádua, RJ
		2570	Duplication of RST-453 / BR-453 and RS-486 from Caxias do Sul to Terra de Areia	148,2 km	Caxias do Sul, RS	Terra de Areia, RS
		2572	Duplication of SCT-486/ BR-486 road from Itajaí to Brusque	30,2 km	Itajaí, SC	Brusque, SC
		2575	Duplication of BR-470 from Navegantes to Indaial	73,2 km	Navegantes, SC	Indaial, SC
		2581	Duplication of BR-104 from São José da Laje to Messias	75,1 km	São José da Laje, AL	Messias, AL
		2586	Duplication of BR-222 road in Sobral	17,8 km	Sobral, CE	Sobral, CE
Road	Road duplication	2587	Duplication of BR-222 from Caucaia to Umirim	85,1 km	Caucaia, CE	Umirim, CE
		2655	Duplication of BR-476 from Adrianópolis to Curitiba	114,5 km	Adrianópolis, PR	Curitiba, PR
		2680	Duplication of BR-367 from Salto da Divisa to Araçuaí	233,7 km	Salto da Divisa, MG	Araçuaí, MG
		2829	Duplication of BR-101 from Mangaratiba to Parati	182,9 km	Mangaratiba, RJ	Parati, RJ
		3430	Duplication of BR-101 from Estância to Cristinápolis	52,4 km	Estância, SE	Cristinápolis, SE
		3433	Duplication of SE-270/ BR-349 road from Itaporanga d'Ajuda to Lagarto	20,9 km	Itaporanga d'Ajuda, SE	Lagarto, SE
		3434	Duplication of SE-170/ BR-349 road from Riachão do Dantas to Tobias Barreto	33,6 km	Riachão do Dantas, SE	Tobias Barreto, SE
		3463	Duplication of RNT-226/ BR-226 road from Currais Novos to Florânia	40,4 km	Currais Novos, RN	Florânia, RN
		3476	Duplication of BR-110 from Olindina to Pojuca	118,0 km	Olindina, BA	Pojuca, BA
		3500	Duplication of BR-343 road in Parnaíba	18,3 km	Parnaíba, PI	Parnaíba, PI

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road duplication	3506	Duplication of BAT-349/BR-349 road from Itapicuru to Olindina	42,5 km	Itapicuru, BA	Olindina, BA
		3520	Duplication of BR-104 road in Taquaritinga do Norte	19,8 km	Taquaritinga do Norte, PE	Taquaritinga do Norte, PE
		3522	Duplication of BR-116 from Rafael Jambeiro to Encruzilhada	446,0 km	Rafael Jambeiro, BA	Encruzilhada, BA
		3543	Duplication of BR-116 from Pacajus to Beberibe	60,3 km	Pacajus, CE	Beberibe, CE
		3558	Duplication of BR-230 from Campina Grande to Boa Vista	31,0 km	Campina Grande, PB	Boa Vista, PB
		3559	Duplication of BR-230 from Pocinhos to Juazeirinho	63,7 km	Pocinhos, PB	Juazeirinho, PB
		3599	Duplication of BR-259 from João Neiva to Colatina	49,0 km	João Neiva, ES	Colatina, ES
		3713	Duplication of RJ-116/BR-492 road from Itaocara to Nova Friburgo	103,5 km	Itaocara, RJ	Nova Friburgo, RJ
		3797	Duplication of BR-116 from Guaíba to Pelotas	211,2 km	Guaíba, RS	Pelotas, RS
		3874	Duplication of RST-453/BR-453 road in Caxias do Sul	10,9 km	Caxias do Sul, RS	Caxias do Sul, RS
	3918	Duplication of BR-316 from Castanhal to Capanema	84,7 km	Castanhal, PA	Capanema, PA	
	0701	Paving of BR-226 from Timon to Matões	98,8 km	Timon, MA	Matões, MA	
	0941	Paving of BR-367 from Salto da Divisa to Jacinto	64,3 km	Salto da Divisa, MG	Jacinto, MG	
	0945	Paving of BAT-251 / BR-251 from Pau Brasil to Itapetinga	35,0 km	Pau Brasil, BA	Itapetinga, BA	
	2156	Paving of BAT-251 / BR-251 from Ilhéus to Buerarema	48,6 km	Ilhéus, BA	Buerarema, BA	
	2167	Paving of BR-402 from Granja to Marco	80,9 km	Granja, CE	Marco, CE	
	2170	Paving of CE-187 from Tauá to Campos Sales	132,8 km	Tauá, CE	Campos Sales, CE	
	2174	Paving of BR-316 from Mata Grande to Canapi	49,0 km	Mata Grande, AL	Canapi, AL	
	2187	Paving of BR-437 from Mossoró to Baraúna	32,0 km	Mossoró, RN	Baraúna, RN	

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Paving of road	2200	Paving of PI-258 from Brasileira to Domingos Mourão	49,0 km	Brasileira, PI	Domingos Mourão, PI
		2281	Paving of BR-285 road in Timbé do Sul	20,4 km	Timbé do Sul, SC	Timbé do Sul, SC
		2306	Paving of BR-447 road from Cariacica to Vila Velha	12,0 km	Cariacica, ES	Vitória, ES
		3576	Paving of BR-437 road from Quixeré to Tabuleiro do Norte	28,9 km	Quixeré, CE	Tabuleiro do Norte, CE
		3837	Paving of BR-285 road in São José dos Ausentes	10,6 km	São José dos Ausentes, RS	São José dos Ausentes, RS
		3945	Paving of BR-308 road from Bragança to Viseu	119,4 km	Bragança, PA	Viseu, PA
	Restoration of pavement of road	0269	Restoration of pavement on MA-106 and MA-106 / BR-308 from Governador Nunes Freire to Alcântara	180,7 km	Governador Nunes Freire, MA	Alcântara, MA
		0772	Restoration of pavement on PE-096 from Barreiros to Palmares	49,0 km	Barreiros, PE	Palmares, PE
		2319	Restoration of pavement on BR-403 from Cruz to Marco	32,6 km	Cruz, CE	Marco, CE
		2320	Restoration of pavement on BR-259 from Colatina to Baixo Guandu	57,1 km	Colatina, ES	Baixo Guandu, ES
		2322	Restoration of pavement on ES-080 / BR-381 and EST-381 / BR-381 from Águia Branca to Barra de São Francisco	32,7 km	Águia Branca, ES	Barra de São Francisco, ES
		2325	Restoration of pavement on BR-259 from Aimorés to Galiléia	129,2 km	Aimorés, MG	Galiléia, MG
		2461	Restoration of pavement on ES-164 in Itaguaçu	20,7 km	Itaguaçu, ES	Itaguaçu, ES
		2463	Restoration of pavement on ES-264 from Santa Maria de Jetiba to Santa Leopoldina	33,9 km	Santa Maria de Jetibá, ES	Santa Leopoldina, ES
		2464	Restoration of pavement on ES-446 from Baixo Guandu to Itaguaçu	31,0 km	Baixo Guandu, ES	Itaguaçu, ES
		2476	Restoration of pavement on PE-177 from Quipapa to Garanhuns	53,4 km	Quipapá, PE	Garanhuns, PE

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement of road	2482	Restoration of pavement on RJ-104 road from São Gonçalo to Niterói	10,7 km	São Gonçalo, RJ	Niterói, RJ
		2483	Restoration of pavement on RN-233 from Açú to Triunfo Potiguar	41,2 km	Açú, RN	Triunfo Potiguar, RN
		2492	Restoration of pavement on RN-117 from Antônio Martins to Alexandria	29,3 km	Antônio Martins, RN	Alexandria, RN
		2494	Restoration of pavement on CE-060 from Quixada to Senador Pompeu	80,8 km	Quixadá, CE	Senador Pompeu, CE
		2495	Restoration of pavement on EC-060 road from Maracanaú to Acarapé	45,2 km	Maracanaú, CE	Acarapé, CE
		2500	Restoration of pavement on ES-010 from Serra to Aracruz	59,0 km	Serra, ES	Aracruz, ES
		2611	Restoration of pavement on EST-482/BR-482 road from Cachoeiro de Itapemirim to Alegre	58,3 km	Cachoeiro de Itapemirim, ES	Alegre, ES
		2623	Restoration of pavement on MGT-418 / BR-418 from Serra dos Aimorés to Nanuque	23,0 km	Serra dos Aimorés, MG	Nanuque, MG
		2626	Restoration of pavement on BR-474 and MGT-474 / BR-474 Aimorés the Caratinga	148,6 km	Aimorés, MG	Caratinga, MG
		2662	Restoration of pavement on RST-101 / BR-101 from Osório to São José do Norte	274,1 km	Osório, RS	São José do Norte, RS
		2666	Restoration of pavement on BR-386 from Tabaí to Canoas	61,5 km	Tabaí, RS	Canoas, RS
		2681	Restoration of pavement on BR-471 from Santa Cruz do Sul to Pantano Grande	69,6 km	Santa Cruz do Sul, RS	Pantano Grande, RS
		2709	Restoration of pavement on BR-122 from Chorozinho to Solonópole	201,9 km	Chorozinho, CE	Solonópole, CE
		2714	Restoration of pavement on CE-178/BR-403 from Morrinhos to Sobral	66,4 km	Morrinhos, CE	Sobral, CE
2715	Restoration of pavement on BR-402 from Marco to Umirim	125,5 km	Marco, CE	Umirim, CE		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement of road	2716	Restoration of pavement on CE-085/BR-402 and BR-402 from Chaval to Granja	97,5 km	Chaval, CE	Granja, CE
		3423	Restoration of pavement on BR-104 in Maceió	11,2 km	Maceió, AL	Maceió, AL
		3435	Restoration of pavement on SE-170 from Moita Bonita to Riachão do Dantas	66,5 km	Moita Bonita, SE	Riachão do Dantas, SE
		3436	Restoration of pavement on SE-210 from Laranjeiras to Moita Bonita	34,1 km	Laranjeiras, SE	Moita Bonita, SE
		3437	Restoration of pavement on SE-220 road from Santa Luzia do Itanhy to Riachão do Dantas	36,1 km	Santa Luzia do Itanhy, SE	Riachão do Dantas, SE
		3441	Restoration of pavement on SE-302 from Frei Paulo to Simão Dias	33,3 km	Frei Paulo, SE	Simão Dias, SE
		3447	Restoration of pavement on BR-226 from Florânia to Triunfo Potiguar	57,3 km	Florânia, RN	Triunfo Potiguar, RN
		3449	Restoration of pavement on BA-130 in Jequié	12,9 km	Jequié, BA	Jequié, BA
		3464	Restoration of pavement on RNT-104 / BR-104 from Pedro Avelino to Angicos	20,9 km	Pedro Avelino, RN	Angicos, RN
		3469	Restoration of pavement on BR-427 from Caicó to Serra Negra do Norte	53,1 km	Caicó, RN	Serra Negra do Norte, RN
		3472	Restoration of pavement on RN-079 from Alexandria to Rafael Fernandes	32,4 km	Alexandria, RN	Rafael Fernandes, RN
		3473	Restoration of pavement on RN-118 from Macau to Itajá	70,7 km	Macau, RN	Itajá, RN
		3482	Restoration of pavement on BR-226 from Coivaras to Teresina	74,2 km	Coivaras, PI	Teresina, PI
		3503	Restoration of pavement on BA-026 / BR-330 from Iramaia to Maracás	26,5 km	Iramaia, BA	Maracás, BA
		3508	Restoration of pavement on Recife Bypass on BR-101	40,9 km	Igarassu, PE	Jaboatão dos Guararapes, PE
3511	Restoration of pavement on BR-367 in Itagimirim	39,8 km	Itagimirim, BA	Itagimirim, BA		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement of road	3537	Restoration of pavement on PE-082/BR-408 from Itambé to Timbaúba	20,2 km	Itambé, PE	Timbaúba, PE
		3547	Restoration of pavement on PE-130 from Taquaritinga do Norte to Vertentes	18,7 km	Taquaritinga do Norte, PE	Vertentes, PE
		3580	Restoration of pavement on CE-168 in Itapipoca	22,2 km	Itapipoca, CE	Itapipoca, CE
		3585	Restoration of pavement on CE-354 from Acarape to Chorozinho	30,5 km	Acarape, CE	Chorozinho, CE
		3597	Restoration of pavement on MA-303 / BR-308, MA-006 / BR-308 and MA-006 from Serrano do Maranhão to Pinheiro	126,4 km	Serrano do Maranhão, MA	Pinheiro, MA
		3605	Restoration of pavement on MA-345 / BR-402, MA-346 / BR-402, MA-345 and MA-034 from Brejo to Araióses	140,0 km	Brejo, MA	Araióses, MA
		3607	Restoration of pavement on ES-137 / BR-381 in Nova Venécia	11,7 km	Nova Venécia, ES	Nova Venécia, ES
		3617	Restoration of pavement on SP-055 / BR-101 from Caraguatatuba to Bertioiga	112,6 km	Caraguatatuba, SP	Bertioiga, SP
		3619	Restoration of pavement on ES-080 from Cariacica to Santa Leopoldina	36,3 km	Cariacica, ES	Santa Leopoldina, ES
		3620	Restoration of pavement on ES-164 and ES-261 from Itaguaçu to Santa Teresa	28,4 km	Itaguaçu, ES	Santa Teresa, ES
		3621	Restoration of pavement on ES-137 from Nova Venécia to São Domingos do Norte	50,7 km	Nova Venécia, ES	São Domingos do Norte, ES
		3688	Restoration of pavement on BR-101 in Rio de Janeiro	30,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3705	Restoration of pavement on RJ-158, RJ-144 and RJ-148 from Carmo to Nova Friburgo	72,7 km	Carmo, RJ	Nova Friburgo, RJ
		3714	Restoration of pavement on RJ-192/BR-492 from São Fidélis to Itaocara	27,2 km	São Fidélis, RJ	Itaocara, RJ
3757	Restoration of pavement on SCT-285/BR-285 from Araranguá to Timbé do Sul	35,4 km	Araranguá, SC	Timbé do Sul, SC		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement of road	3778	Restoration of pavement on BR-101 in São José do Norte	36,7 km	São José do Norte, RS	São José do Norte, RS
		3876	Restoration of pavement on RST-453/BR-453 from Garibaldi to Farroupilha	20,4 km	Garibaldi, RS	Farroupilha, RS
		3888	Restoration of pavement on BR-470 from Triunfo to São Jerônimo	42,9 km	Triunfo, RS	São Jerônimo, RS
		3902	Restoration of pavement on RS-020 from Taquara to Três Coroas	18,1 km	Taquara, RS	Três Coroas, RS
		3903	Restoration of pavement on RS-030 / BR-101 and RS-030 from Osório to Santo Antônio da Patrulha	31,4 km	Osório, RS	Santo Antônio da Patrulha, RS
		3906	Restoration of pavement on RS-128 from Fazenda Vilanova to Teutônia	16,0 km	Fazenda Vilanova, RS	Teutônia, RS
		3909	Restoration of pavement on BR-470 and RS-446 from Garibaldi to São Vendelino	19,2 km	Garibaldi, RS	São Vendelino, RS
		3913	Restoration of pavement on RS-786 from Tramandaí to Cidreira	17,5 km	Tramandaí, RS	Cidreira, RS
		3915	Restoration of pavement on BR-010 from Marituba to Belém	11,6 km	Marituba, PA	Belém, PA
		3931	Restoration of pavement on PR-410 from Morretes to Antonina	10,6 km	Morretes, PR	Antonina, PR
3944	Restoration of pavement on BR-308 from Capanema to Bragança	60,0 km	Capanema, PA	Bragança, PA		
Terminal	Terminal adjustment	1895	Expansion and adjustment of Cachoeira do Sul waterway cargo terminal	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS
		1917	Expansion and adjustment of Cujupe Terminal in Alcântara	1 un	Alcântara, MA	Alcântara, MA
		2389	Adjustment of Estrela intermodal cargo terminal Estrela	1 un	Estrela, RS	Estrela, RS
		2391	Adjustment of Cachoeira do Sul waterway cargo terminal	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS



Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	0331	Construction of waterway cargo terminal in Belo Monte	1 un	Belo Monte, AL	Belo Monte, AL
		0333	Construction of intermodal cargo terminal in Porto Real do Colégio	1 un	Porto Real do Colégio, AL	Porto Real do Colégio, AL
		0351	Construction of rail freight terminal in Teixeira de Freitas	1 un	Teixeira de Freitas, BA	Teixeira de Freitas, BA
		0457	Construction of waterway cargo terminal in Campos dos Goytacazes	1 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		0458	Construction of intermodal cargo terminal in Itaperuna	1 un	Itaperuna, RJ	Itaperuna, RJ
		0483	Construction of waterway cargo terminal in Jaguarão	1 un	Jaguarão, RS	Jaguarão, RS
		0486	Construction of waterway cargo terminal in Santa Vitória de Palmar	1 un	Santa Vitória do Palmar, RS	Santa Vitória do Palmar, RS
		0509	Construction of intermodal cargo terminal in Laranjeiras	1 un	Laranjeiras, SE	Laranjeiras, SE
		0721	Construction of mixed-use waterway terminal in Belém	1 un	Belém, PA	Belém, PA
		1794	Construction of rail freight terminal in Mossoró	1 un	Mossoró, RN	Mossoró, RN
		1808	Construction of intermodal cargo terminal in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		1809	Construction of logistics platform in Itajaí	1 un	Itajaí, SC	Itajaí, SC
		1810	Construction of rail freight terminal in São José	1 un	São José, SC	São José, SC
		1816	Construction of Santa Catarina Intermodal Complex in Araquari	1 un	Araquari, SC	Araquari, SC
		1846	Construction of waterway cargo terminal in São Sebastião do Caí	1 un	São Sebastião do Caí, RS	São Sebastião do Caí, RS
		1847	Construction of waterway cargo terminal in Montenegro	1 un	Montenegro, RS	Montenegro, RS
		1848	Construction of waterway cargo terminal in Arambaré	1 un	Arambaré, RS	Arambaré, RS
		1849	Construction of waterway cargo terminal in Dona Francisca	1 un	Dona Francisca, RS	Dona Francisca, RS

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	1850	Construction of waterway cargo terminal in Restinga Seca	1 un	Restinga Seca, RS	Restinga Seca, RS
		1885	Construction of waterway cargo terminal in Guaíba	1 un	Guaíba, RS	Guaíba, RS
		1886	Construction of waterway cargo terminal in Mostardas	1 un	Mostardas, RS	Mostardas, RS
		1887	Construction of waterway cargo terminal in Palmares de Sul	1 un	Palmares do Sul, RS	Palmares do Sul, RS
		1888	Construction of waterway cargo terminal in Rio Pardo	1 un	Rio Pardo, RS	Rio Pardo, RS
		1889	Construction of waterway cargo terminal in São Jerônimo	1 un	São Jerônimo, RS	São Jerônimo, RS
		1890	Construction of waterway cargo terminal in São Lourenço de Sul	1 un	São Lourenço do Sul, RS	São Lourenço do Sul, RS
		1891	Construction of waterway cargo terminal in Tapes	1 un	Tapes, RS	Tapes, RS
		1893	Construction of waterway cargo terminal in Tavares	1 un	Tavares, RS	Tavares, RS
		2399	Construction of mixed-use waterway terminal in São Miguel do Guamá	1 un	São Miguel do Guamá, PA	São Miguel do Guamá, PA
		2401	Construction of mixed-use waterway terminal in Viseu	1 un	Viseu, PA	Viseu, PA
		2402	Construction of mixed-use waterway terminal in Bragança	1 un	Bragança, PA	Bragança, PA
		2836	Construction of parking lot for cargo vehicles in Porto Alegre Metropolitan Region	1 un	Porto Alegre, RS	Porto Alegre, RS
		2837	Construction of parking lot for cargo vehicles in Curitiba Metropolitan Region	1 un	Curitiba, PR	Curitiba, PR
		2839	Construction of parking for cargo vehicles in Salvador Metropolitan Region	1 un	Salvador, BA	Salvador, BA
		2840	Construction of parking lot for cargo vehicles in Recife Metropolitan Region	1 un	Recife, PE	Recife, PE
2841	Construction of parking lot for cargo vehicles in Florianópolis Metropolitan Region	1 un	Florianópolis, SC	Florianópolis, SC		

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	2843	Construction of parking lot for cargo vehicles in Greater Vitória Metropolitan Region	1 un	Vitória, ES	Vitória, ES
		2844	Construction of parking lot for cargo vehicles in Belém Metropolitan Region	1 un	Belém, PA	Belém, PA
		2845	Construction of parking lot for cargo vehicles in Fortaleza Metropolitan Region	1 un	Fortaleza, CE	Fortaleza, CE
		2849	Construction of parking lot for cargo vehicles in São Paulo Metropolitan Region in the city of São Paulo	1 un	São Paulo, SP	São Paulo, SP
		2850	Construction of parking lot for cargo vehicles in São Paulo Metropolitan Region in the city of Guarulhos	1 un	Guarulhos, SP	Guarulhos, SP
		2852	Construction of parking lot for cargo vehicles in Rio de Janeiro Metropolitan Region	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3084	Construction of waterway passenger terminal in Arambaré	1 un	Arambaré, RS	Arambaré, RS
		3106	Construction of Arroito Terminal in Santa Vitória de Palmar	1 un	Santa Vitória do Palmar, RS	Santa Vitória do Palmar, RS
		3109	Construction of Barra Falsa Terminal in São José do Norte	1 un	São José do Norte, RS	São José do Norte, RS
		3332	Construction of mixed-use waterway terminal in Augusto Corrêa	1 un	Augusto Corrêa, PA	Augusto Corrêa, PA
		3413	Construction of parking lot for cargo vehicles in Natal Metropolitan Region	1 un	Natal, RN	Natal, RN
		3415	Construction of parking lot for cargo vehicles in Maceió Metropolitan Region	1 un	Maceió, AL	Maceió, AL
		3416	Construction of parking lot for cargo vehicles in Greater Teresina Integrated Development Region	1 un	Teresina, PI	Teresina, PI
		3417	Construction of parking lot for cargo vehicles in Aracaju Metropolitan Region	1 un	Aracaju, SE	Aracaju, SE

Table 5 - List of projects of the Coastal Corridor (E2)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	3418	Construction of parking lot for cargo vehicles in Paraíba Valley and North Coast Metropolitan Region	1 un	São José dos Campos, SP	São José dos Campos, SP
		3419	Construction of parking lot for cargo vehicles in North/Northeast Santa Catarina Metropolitan Region	1 un	Joinville, SC	Joinville, SC

## 5.2.2 ESTIMATE OF INVESTMENT IN COASTAL CORRIDOR (E2)

The estimated minimum investments for the implementation of Coastal Corridor project proposals by infrastructure and category are presented in Table 6.

Table 6 - Minimum Investment - Coastal Corridor (E2)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	48 un	4.420.638.275,40
	Airport construction	15 un	15.054.736.743,36
Rail	Railway construction	2.433,8 km	31.060.582.350,19
	Construction of HSR	510,8 km	89.561.840.956,59
	Elimination of bottlenecks	129 un	506.927.584,53
	Restoration of railway	1.886,2 km	8.324.369.746,28
Waterway	Channel opening	35,4 km	485.793.086,05
	Waterway adjustment	1.902,5 km	580.125.524,23
	Cargo riverboat	15 un	1.975.458.358,18
Road	Road adjustment	6.508,3 km	11.538.564.936,76
	Road construction	1.868,2 km	11.382.398.494,76
	Road duplication	6.899,9 km	76.145.810.170,76
	Paving of road	781,7 km	3.412.809.412,29
	Restoration of pavement on road	3.670,2 km	12.215.549.929,61
Terminal	Terminal adjustment	4 un	75.831.867,06
	Terminal construction	51 un	3.640.242.169,00
<b>Total</b>			<b>270.381.679.605,05</b>

## 5.3 NORTH SOUTH CORRIDOR (E3)

The North-South Corridor crosses the national territory in its central part, connecting the cities of Barcarena, PA and Uruguaiana, RS. Its route runs through the capitals of the states of Tocantins and Goiás and areas of significant agricultural production in these states, in Mato Grosso do Sul, São Paulo and in the south region of the country. The corridor has great aptitude for export, in its north direction, through Port of Vila do Conde (in Barcarena, PA), and for interconnection with the South American countries, in its south direction, via Uruguaiana, RS.

The corridor begins on the Tocantins River Waterway, from Barcarena, PA to Peixe, TO. From Peixe, TO, follow the BR-242 road until Gurupi, TO and, later, through BR-153, until the city

of Itumbiara, GO, where the corridor is once again a waterway, mainly using the Paranaíba and Paraná river waterways until reaching the state of Paraná (on the border between the municipalities of Mundo Novo, MS and Guaíra, PR). In its final part, the corridor uses again the road infrastructure: in the stretch between Guaíra, PR and São Miguel do Oeste, SC, it is composed by BR-163; from São Miguel do Oeste, SC to Uruguaiana, RS, uses the BR-282, BR-158, BR-285 and BR-472 roads.

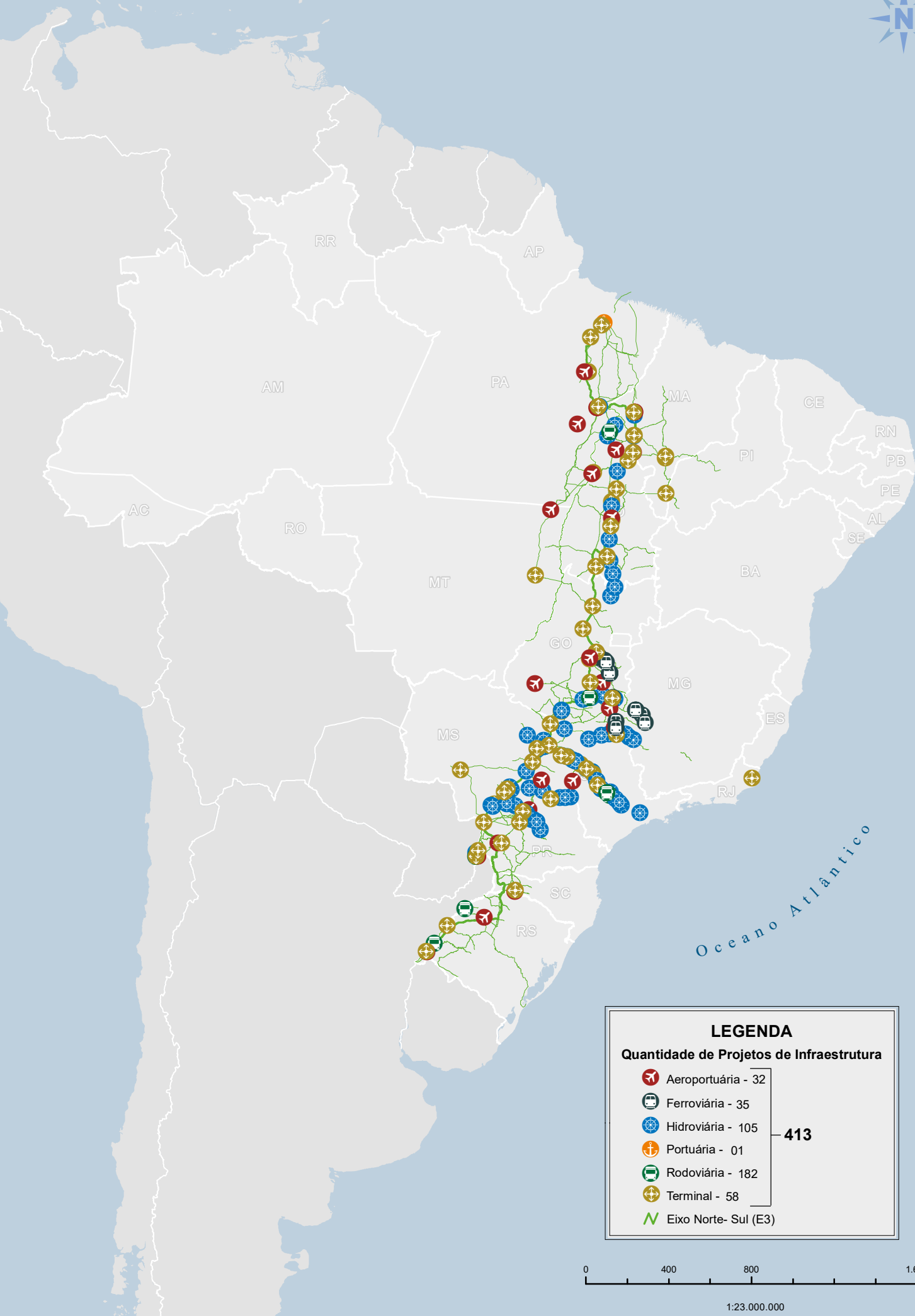
Based on its route, the corridor qualifies for the movement of agricultural cargo, such as soybeans and corn, coming from the Central-West Region of Brazil and from the São Paulo and Paraná states to the foreign Market or to large domestic consumers – such as poultry and swine processing agricultural industries in the South Region of the country.

The North-South Corridor connects: with the Central-North Corridor (E5) on the border between the municipalities of Mundo Novo, MS and Guaíra, PR; with the North-Southeast Corridor (E6) on the border between Mato Grosso do Sul and São Paulo (between Aparecida do Taboado, MS and Rubinéia, SP); with the East-West Corridor (E7) in São Francisco de Goiás, GO; and with the Cabotage Corridor (E9) in Barcarena, PA.

The North-South Corridor route and the projects belonging to this corridor are represented, in simplified form, in Figure 10.



Figure 10 - North-South Corridor (E3)



LEGENDA	
Quantidade de Projetos de Infraestrutura	
	Aeroportuária - 32
	Ferroviária - 35
	Hidroviária - 105
	Portuária - 01
	Rodoviária - 182
	Terminal - 58
	Eixo Norte- Sul (E3)

**413**

0 400 800 1.600 km

1:23.000.000

### 5.3.1 NORTH-SOUTH CORRIDOR PROJECTS (E3)

Among the projects proposed for the North-South Corridor route are interventions in the Tocantins, Paranaíba and Paraná rivers waterways to improve the operation of these corridors. It is proposed, in the Tocantins River Waterway, dredging, rock removal, signaling and beacon installation, as well as the construction of sluices; it is worth mentioning among these interventions the rock removal of Pedral do Lourenço, the upstream of the Tucuruí, PA, hydroelectric power plant, an old demand from the transport and production sectors. On the Paranaíba and Paraná rivers waterways, in turn, dredging, rock removal, signaling, beacon installation, widening of spans and protection of bridge pillars are required, as well as construction, expansion and modernization of sluices. Also proposed are several waterway and intermodal terminals to be implemented along these waterways.

With regard to road projects, it is worth highlighting the duplication of the BR-153 road in Goiás and BR-163 road in Paraná and Santa Catarina. In BR-163, in particular, interventions will contribute to reducing transportation costs in the supply of raw materials (soybeans and corn) to agricultural industries located in the western portion of the South Region of the country.

Regarding the complementary infrastructures to the North-South Corridor main route, it is worth mentioning the interventions in the Araguaia (in the North and Center-West) and Tietê (in the state of São Paulo) rivers waterways. In the Tietê River Waterway, we highlight the sluices expansions and the construction of waiting garages, spans enlargements and bridge pillar protections and specific channel dredging (and not the waterway as a whole). As for road projects, the highlights are the duplication of BR-153 and part of BR-226 in the state of Tocantins and BR-277 in Paraná, connecting the interior of the state with the capital and allowing access to the Port of Paranaguá, PR.

In the railway segment, the main complementary projects to the corridor are those related to the North-South Railway, in its northern extension - to Barcarena, PA and via the Curuçá, PA branch line - and in the central-south section - from Goiás to Rio Grande do Sul. The layout of this railway connects all regions of the country, being an important alternative for the flow of agricultural crop for export. Also noteworthy are the Paraense Railway, the Palmeirante, TO, railway connection to Ribeirão Cascalheira, MT, and the Pantanal Railway (in Mato Grosso do Sul), among other railway interventions. Also relevant are the airport projects, which include adjustment interventions at 19 airports (especially Marabá, PA, Uberaba, MG, and Uberlândia, MG, airports, with the largest number of proposals) and the construction of four others.

Table 7 shows the North-South Corridor Projects.



Table 7 - List of North-South Corridor Projects (E3)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	0623	Expansion of Ten. Cel. Aviador César Bombonato Airport in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG
		1524	Construction of control tower at João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1525	Restoration and expansion of passenger terminal at João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1530	Expansion of the runway system at Sílvio Name Júnior Airport in Maringá	1 un	Maringá, PR	Maringá, PR
		1539	Expansion and restoration of passenger terminal of Presidente Prudente Airport	1 un	Presidente Prudente, SP	Presidente Prudente, SP
		1563	Expansion of Santa Genoveva Airport in Goiânia	1 un	Goiânia, GO	Goiânia, GO
		1565	Implementation of air navigation groups at Brigadeiro Lysias Augusto Rodrigues Airport in Carolina	1 un	Carolina, MA	Carolina, MA
		1566	Expansion of Mayor Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		1590	Expansion of passenger terminal and runway system at Vila Rica Airport	1 un	Vila Rica, MT	Vila Rica, MT
		1594	Expansion of Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG
		1598	Expansion of Carajás Airport in Parauapebas	1 un	Parauapebas, PA	Parauapebas, PA
		1599	Implementation of air navigation groups at Conceição do Araguaia Airport	1 un	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		1602	Restoration of João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1604	Implementation of air navigation groups at Tucuruí Airport	1 un	Tucuruí, PA	Tucuruí, PA
		1620	Restoration of Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1623	Restoration of Brigadeiro Lysias Rodrigues Airport in Palmas	1 un	Palmas, TO	Palmas, TO
		1648	Expansion of passenger terminal and runway and patio system at Rubem Berta Airport in Uruguaiana	1 un	Uruguaiana, RS	Uruguaiana, RS
		2915	Restoration of runway system at Prefeito Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		2916	Restoration of runway system at Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG
		2920	Restoration of runway system at Ten. Cel. Aviador César Bombonato Airport in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG
		2959	Repair of runway at João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		2971	Restoration of runway system at Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		3003	Restoration of passenger terminal at Araguaína Airport	1 un	Araguaína, TO	Araguaína, TO
		3025	Restoration of passenger terminal and expansion of runway system at Nelson Rodrigues Guimarães Airport in Caldas Novas	1 un	Caldas Novas, GO	Caldas Novas, GO
		3030	Expansion of passenger terminal and restoration of road access to Serafin Enoss Bertaso Airport in Chapecó	1 un	Chapecó, SC	Chapecó, SC
		3340	Expansion of passenger terminal at Santo Ângelo Airport	1 un	Santo Ângelo, RS	Santo Ângelo, RS
		3393	Repair of runway at Ten. Cel. Aviador César Bombonato Airport in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG
		3398	Acquisition of fire engines for Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport construction	1528	Construction of passenger terminal at Adalberto Mendes da Silva Airport in Cascavel	1 un	Cascavel, PR	Cascavel, PR
		1538	Construction of passenger terminal, and runway and aircraft yard system at Frank Miloye Milenkovich Airport in Marília	1 un	Marília, SP	Marília, SP
		1567	Construction of new passenger terminal at Prefeito Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		3024	Construction of the new Jataí Airport	1 un	Jataí, GO	Jataí, GO
Rail	Railway construction	0574	Construction of the Paraná - Mato Grosso do Sul rail connection from Guaíra to Cascavel	167,6 km	Guaíra, PR	Cascavel, PR
		0716	Construction of the Paraná - Mato Grosso do Sul rail connection from Mundo Novo to Maracaju	332,5 km	Mundo Novo, MS	Maracaju, MS
		0728	Construction of the Guaíra-Cianorte rail link	210,0 km	Guaíra, PR	Cianorte, PR
		1357	Construction of the North-South Railway from Ouro Verde de Goiás to São Simão	509,4 km	Ouro Verde de Goiás, GO	São Simão, GO
		1358	Construction of the North-South Railway from Santa Vitória to Iturama	108,2 km	Santa Vitória, MG	Iturama, MG
		1359	Construction of the North-South Railway from Ouroeste to Estrela d'Oeste	66,4 km	Ouroeste, SP	Estrela d'Oeste, SP
		1360	Construction of the North-South Railway from Estrela d'Oeste to Panorama	264,0 km	Estrela d'Oeste, SP	Panorama, SP
		1373	Construction of the rail connection between Transnordestina and North-South from Uruçuí to Eliseu Martins	224,3 km	Uruçuí, PI	Eliseu Martins, PI
		1374	Construction of rail connection between Transnordestina and North-South from Porto Franco to Benedito Leite	396,0 km	Porto Franco, MA	Benedito Leite, MA

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Railway construction	1381	Construction of Railway from Pantanal de Maracaju a Brasilândia	444,0 km	Maracaju, MS	Brasilândia, MS
		1386	Construction of the North-South Railway from Açailândia to Itinga do Maranhão	72,2 km	Açailândia, MA	Itinga do Maranhão, MA
		1387	Construction of the North-South Railway from Dom Eliseu to Barcarena	407,8 km	Dom Eliseu, PA	Barcarena, PA
		1388	Construction of North-South Railway from Paragominas to Curuçá	263,2 km	Paragominas, PA	Curuçá, PA
		1389	Construction of the North-South Railway from Pirapozinho to Panorama	149,2 km	Pirapozinho, SP	Panorama, SP
		1390	Construction of the North-South Railway from Vitorino to Santo Inácio	622,3 km	Santo Inácio, PR	Vitorino, PR
		1391	Construction of the North-South Railway from Caibi to São Lourenço do Oeste	144,4 km	Caibi, SC	São Lourenço do Oeste, SC
		1392	Construction of the North-South Railway from Rio Grande to Vicente Dutra	832,9 km	Rio Grande, RS	Vicente Dutra, RS
		1403	Construction of rail link in Foz do Iguaçu	0,8 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1420	Construction of the rail link from São Borja to São Luiz Gonzaga	130,0 km	São Borja, RS	São Luiz Gonzaga, RS
		1434	Construction of West Paraná Railway from Cascavel to Foz do Iguaçu	160,6 km	Cascavel, PR	Foz do Iguaçu, PR
		1461	Construction of the Palmeirante - Ribeirão Cascalheira rail link from Palmeirante to Couto Magalhães	131,5 km	Palmeirante, TO	Couto Magalhães, TO
		1462	Construction of Palmeirante - Ribeirão Cascalheira rail link from Conceição do Araguaia to Santana do Araguaia	249,1 km	Conceição do Araguaia, PA	Santana do Araguaia, PA
		1463	Construction of the Palmeirante - Ribeirão Cascalheira rail link from Vila Rica to Ribeirão Cascalheira	392,0 km	Vila Rica, MT	Ribeirão Cascalheira, MT
		1718	Construction of the Pires do Rio Rail Bypass	15,5 km	Pires do Rio, GO	Pires do Rio, GO
2950	Construction of Paraense Railway from Santana do Araguaia to Barcarena	1.319,0 km	Santana do Araguaia, PA	Barcarena, PA		

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Elimination of bottlenecks	1691	Removal of right of way intrusions in Pires do Rio	6 un	Pires do Rio, GO	Pires do Rio, GO
		1695	Removal of right of way intrusions in Uberaba	2 un	Uberaba, MG	Uberaba, MG
		3110	Removal of right of way intrusions in Patrocínio	3 un	Patrocínio, MG	Patrocínio, MG
		3111	Removal of right of way intrusion in Ibiá	1 un	Ibiá, MG	Ibiá, MG
		3219	Removal of level crossing in Leopoldo de Bulhões	1 un	Leopoldo de Bulhões, GO	Leopoldo de Bulhões, GO
		3221	Removal of level crossings in Silvânia	2 un	Silvânia, GO	Silvânia, GO
		3222	Removal of level crossings in Vianópolis	2 un	Vianópolis, GO	Vianópolis, GO
		3223	Removal of level crossing in Cumari	1 un	Cumari, GO	Cumari, GO
		3229	Removal of level crossing in Serra do Salitre	1 un	Serra do Salitre, MG	Serra do Salitre, MG
	Restoration of railway	1486	Remodeling of Araguari to Ibiá rail link	281,1 km	Araguari, MG	Ibiá, MG
Waterway	Channel opening	1315	Rock removal at Lourenço Pedral on Tocantins River Waterway	43,0 km	Nova Ipixuna, PA	Itupiranga, PA
		2864	Rock removal at Tocantins River waterway from Peixe to Palmas	225,0 km	Peixe, TO	Palmas, TO
		2866-INT	Rock removal at Tocantins River waterway from Estreito to Marabá	321,0 km	Estreito, MA	Marabá, PA
		2988-INT	Dredging of Bugre Channel on the Paraná River Waterway	3,8 km	Mundo Novo, MS	Guaíra, PR
	Waterway adjustment	1321-INT	Rock removal at Pedral do Guaíra on Paraná River Waterway	3,0 km	Mundo Novo, MS	Guaíra, PR
		1335-INT	Signaling and beacon installation of the Paranaíba and Paraná rivers waterways from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR
		1336-INT	Dredging, signaling and beacon installation at Tocantins River waterway from Peixe to Marabá	1.021,0 km	Peixe, TO	Marabá, PA
		1337	Dredging of Tocantins River Waterway from Itupiranga to Barcarena	433,0 km	Itupiranga, PA	Barcarena, PA

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	1338-INT	Adjustment of the Rio Grande Waterway from São José da Barra to Ouroeste	773,0 km	São José da Barra, MG	Ouroeste, SP
		1339-INT	Adjustment of Paranaíba River Waterway from Itumbiara to Aparecida do Taboado	504,0 km	Itumbiara, GO	Aparecida do Taboado, MS
		1342-INT	Adjustment of Araguaia River waterway from Barra do Garças to São João do Araguaia	1.655,0 km	Barra do Garças, MT	São João do Araguaia, PA
		1346	Dredging of Ivaí River Waterway from Cândido de Abreu to Icaraíma	560,0 km	Cândido de Abreu, PR	Icaraíma, PR
		1349	Dredging of the Uruguai River Waterway from São Borja to Barra do Quaraí	240,0 km	São Borja, RS	Barra do Quaraí, RS
		1350	Dredging of Quiriri Channel in Marajó Bay	143,0 km	Belém, PA	Soure, PA
		2861	Adjustment of the Tocantins River Waterway from Marabá to Itupiranga	50,0 km	Marabá, PA	Itupiranga, PA
		2862	Signaling and beacon installation of Tocantins River Waterway from Itupiranga to Barcarena	433,0 km	Itupiranga, PA	Barcarena, PA
		2951	Dredging of the Ibicuí River Waterway from Cacequi to Uruguaiana	291,0 km	Cacequi, RS	Uruguaiana, RS
		2961	Expansion of the span and protection of the pillars of the PR-576 bridge on the Ivaí River Waterway	1 un	Santa Mônica, PR	Tapira, PR
		2962	Expansion of the span and protection of the pillars of the PR-492 bridge on the Ivaí River Waterway	1 un	Paraíso do Norte, PR	Rondon, PR
		2964	Expansion of the span and protection of the pillars of the PR-323 bridge on the Ivaí River Waterway	1 un	Doutor Camargo, PR	Terra Boa, PR
		2965	Expansion of the span and protection of the pillars of the PR-317 bridge on the Ivaí River Waterway	1 un	Floresta, PR	Engenheiro Beltrão, PR

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	2967	Expansion of the span and protection of the pillars of the PR-466 bridge on the Ivaí River Waterway	1 un	Cruzmalina, PR	Lidianópolis, PR
		2970	Dredging of the Ivinhema River Waterway from Ivinhema to Taquarussu	101,0 km	Ivinhema, MS	Taquarussu, MS
		2973	Dredging of the Sucuriú River Waterway from Inocência to Três Lagoas	170,0 km	Três Lagoas, MS	Três Lagoas, MS
		2975	Dredging of the Amambaí River Waterway from Itaquiraí to Naviraí	73,0 km	Naviraí, MS	Itaquiraí, MS
		2976	Expansion of the span and protection of the BR-487 bridge pillars on the Amambaí River Waterway	1 un	Naviraí, MS	Itaquiraí, MS
		2977	Expansion of the span and protection of the SP-425 bridge pillars on the Tietê River Waterway	1 un	José Bonifácio, SP	Barbosa, SP
		2984-INT	Expansion of the span and protection of the BR-365 bridge's pillars on the Paranaíba River Waterway	1 un	São Simão, GO	Santa Vitória, MG
		2994-INT	Dredging of the Paraná River Waterway from Ilha Solteira to Foz do Iguaçu	732,0 km	Ilha Solteira, SP	Foz do Iguaçu, PR
		2995-INT	Expansion of the span and protection of the Francisco de Sá Bridge pillars on the Paraná River Waterway	1 un	Três Lagoas, MS	Castilho, SP
		2999-INT	Protection of the Porto Camargo Bridge pillars on the Paraná River Waterway	1 un	Naviraí, MS	Alto Paraíso, PR
		3000-INT	Expansion of the span and protection of the Hélio Serejo Bridge pillars on the Paraná River Waterway	1 un	Bataguassu, MS	Presidente Epitácio, SP
		3002	Dredging of the Rio Piracicaba Waterway from Piracicaba to Botucatu	66,0 km	Piracicaba, SP	Botucatu, SP
3006	Protection of the SP-333 bridge pillars on the Tietê River Waterway	1 un	Novo Horizonte, SP	Pongaí, SP		

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	3007	Expansion of the Jacaré Bridge span on the Tietê River Waterway	1 un	Araçatuba, SP	Santo Antônio do Aracanguá, SP
		3008	Protection of the SP-563 bridge pillars on the Tietê River Waterway	1 un	Pereira Barreto, SP	Pereira Barreto, SP
		3009	Adjustment of the SP-191 bridge span on the Tietê River Waterway	1 un	Anhembi, SP	Botucatu, SP
		3023	Implementation of waterway traffic control system in the Tietê, Piracicaba and Paraná river waterways	1 un	São Paulo, SP	São Paulo, SP
		3031	Rock removal at Pedral de Nova Avanhandava on the Tietê River Waterway	9,3 km	Buritama, SP	Birigui, SP
		3032	Dredging of the Anhembi Channel on the Tietê River Waterway	11,0 km	Anhembi, SP	Anhembi, SP
		3033	Adjustment of the Botucatu Channel on the Tietê River Waterway	27,0 km	Anhembi, SP	Botucatu, SP
		3034	Adjustment of Ibitinga Channel on the Tietê River Waterway	0,1 km	Ibitinga, SP	Iacanga, SP
		3035	Adjustment of the SP-425 approach channel on the Tietê River Waterway	3,2 km	José Bonifácio, SP	Barbosa, SP
		3045-INT	Expansion of the span and protection of the BR-452 bridge pillars on the Paranaíba River Waterway	1 un	Itumbiara, GO	Araporã, MG
		3046-INT	Expansion of the span and protection of the GO-139 bridge pillars on the Paranaíba River Waterway	1 un	Corumbaíba, GO	Araguari, MG
		3047	Dredging of the Bois River Waterway from Porteirão to Gouvelândia	175,0 km	Porteirão, GO	Gouvelândia, GO
		3048-INT	Dredging of Paranapanema River Waterway from Ourinhos to São Pedro do Paraná	416,0 km	Ourinhos, SP	São Pedro do Paraná, PR
		3056	Dredging of the Conchas Channel on the Tietê River Waterway	21,0 km	Conchas, SP	Anhembi, SP



Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Cargo riverboat	0202-INT	Duplication of Jupia Sluice in Paraná River Waterway	1 un	Três Lagoas, MS	Castilho, SP
		0208-INT	Construction of Ilha Solteira Sluice on Paraná River Waterway	1 un	Selvíria, MS	Ilha Solteira, SP
		0209	Construction of the Itaipu Sluice on the Paraná River Waterway	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		0210	Construction of Luis Eduardo Magalhães (Lajeado) sluice on Tocantins River waterway	1 un	Lajeado, TO	Miracema do Tocantins, TO
		0212-INT	Construction of the Serra Quebrada Sluice on the Tocantins River Waterway	1 un	Governador Edison Lobão, MA	Itaguatins, TO
		0213	Expansion of the Promissão Sluice on the Tietê River Waterway	1 un	Ubarana, SP	Promissão, SP
		0224	Expansion of Nova Avanhandava Sluices on the Tietê River Waterway	2 un	Buritama, SP	Brejo Alegre, SP
		0233	Expansion of the Bariri Sluice on the Tietê River Waterway	1 un	Bariri, SP	Boracéia, SP
		0244	Expansion of Barra Bonita Sluice on the Tietê River Waterway	1 un	Barra Bonita, SP	Igaraçu do Tietê, SP
		0256	Expansion of the Ibitinga Sluice on the Tietê River Waterway	1 un	Ibitinga, SP	Iacanga, SP
		1258-INT	Construction of Estreito sluice on the Tocantins River waterway	1 un	Estreito, MA	Palmeiras do Tocantins, TO
		1268-INT	Construction of the Água Vermelha Sluice on the Rio Grande Waterway	1 un	Iturama, MG	Ouroeste, SP
		1269-INT	Construction of the Estreito Sluice on the Rio Grande Waterway	1 un	Sacramento, MG	Pedregulho, SP
		1270-INT	Construction of the Marimbondo Sluice on the Rio Grande Waterway	1 un	Fronteira, MG	Icém, SP
		1271-INT	Construction of the Porto Colômbia Sluice on the Rio Grande Waterway	1 un	Planura, MG	Guaíra, SP
1272-INT	Construction of the Volta Grande Sluice on the Rio Grande Waterway	1 un	Conceição das Alagoas, MG	Miguelópolis, SP		

Tabela 7 - Relação dos Projetos do Eixo Norte-Sul (E3)

continuação

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Cargo riverboat	1280-INT	Duplication of the Porto Primavera Sluice on the Paraná River Waterway	1 un	Batayporã, MS	Rosana, SP
		1281-INT	Construction of Cachoeira Dourada Sluice on the Paranaíba River Waterway	1 un	Cachoeira Dourada, GO	Cachoeira Dourada, MG
		1282-INT	Construction of the Emborcação Sluice on the Paranaíba River Waterway	1 un	Catalão, GO	Araguari, MG
		1283-INT	Construction of the Itumbiara Sluice on the Paranaíba River Waterway	1 un	Itumbiara, GO	Araporã, MG
		1284-INT	Construction of São Simão Sluice on Paranaíba River Waterway	1 un	São Simão, GO	Santa Vitória, MG
		1285-INT	Construction of the Canoas I Sluice on the Paranapanema River Waterway	1 un	Cândido Mota, SP	Itambaracá, PR
		1286-INT	Construction of the Canoas II Sluice on the Paranapanema River Waterway	1 un	Palmital, SP	Andirá, PR
		1287-INT	Construction of the Capivara Sluice on the Paranapanema River Waterway	1 un	Taciba, SP	Porecatu, PR
		1288-INT	Construction of the Rosana Sluice on the Paranapanema River Waterway	1 un	Rosana, SP	Diamante do Norte, PR
		1289-INT	Construction of the Taquaruçu Sluice on the Paranapanema River Waterway	1 un	Sandovalina, SP	Itaguajé, PR
		1290	Construction of Peixe Anglica Sluice on Tocantins River waterway	1 un	Peixe, TO	São Salvador do Tocantins, TO
		1291	Construction of São Salvador sluice on Tocantins River waterway	1 un	Paraná, TO	São Salvador do Tocantins, TO
		1292	Construction of the Cana Brava Sluice on the Tocantins River Waterway	1 un	Cavalcante, GO	Minaçu, GO
		1293	Construction of the Serra da Mesa Sluice on the Tocantins River Waterway	1 un	Colinas do Sul, GO	Minaçu, GO
		1307	Construction of Ipueiras sluice on Tocantins River waterway	1 un	Ipueiras, TO	Brejinho de Nazaré, TO

Tabela 7 - Relação dos Projetos do Eixo Norte-Sul (E3)

continuação

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Cargo riverboat	1308	Construction of Tupiratins sluice on Tocantins River waterway	1 un	Itapiratins, TO	Tupiratins, TO
		1309-INT	Construction of the Igarapava Sluice on the Rio Grande Waterway	1 un	Conquista, MG	Igarapava, SP
		1310-INT	Construction of the Jaguará Sluice on the Rio Grande Waterway	1 un	Sacramento, MG	Rifaina, SP
		1311	Construction of Marechal Mascarenhas de Moraes Sluice on the Rio Grande Waterway	1 un	Delfinópolis, MG	Ibiraci, MG
		1345-INT	Construction of Santa Isabel sluice on Araguaia River waterway	1 un	Ananás, TO	Palestina do Pará, PA
		1684	Construction of the Santa Maria da Serra Sluice on the Rio Piracicaba Waterway	1 un	Santa Maria da Serra, SP	Anhembi, SP
		1685	Construction of the Anhembi Sluice on the Tietê River Waterway	1 un	Anhembi, SP	Anhembi, SP
		2870	Construction of Marabá sluice on Tocantins River waterway	1 un	Marabá, PA	São João do Araguaia, PA
		3011	Construction of waiting garages at the Ibitinga Sluice on the Tietê River Waterway	2 un	Ibitinga, SP	Iacanga, SP
		3013	Construction of waiting garages at the Promissão Sluice on the Tietê River Waterway	2 un	Promissão, SP	Ubarana, SP
		3015	Construction of waiting garages at Nova Avanhandava Sluice on the Tietê River Waterway	2 un	Buritama, SP	Brejo Alegre, SP
		3018	Construction of waiting garages at Barra Bonita Sluice on the Tietê River Waterway	2 un	Barra Bonita, SP	Igaraçu do Tietê, SP
		3020	Construction of waiting garages at Bariri Sluice on the Tietê River Waterway	2 un	Bariri, SP	Boracéia, SP
		3021	Modernization of the Três Irmãos Sluice on the Tietê River Waterway	1 un	Pereira Barreto, SP	Andradina, SP
		3022	Expansion of the Três Irmãos Sluice on the Tietê River Waterway	2 un	Pereira Barreto, SP	Andradina, SP

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Hidroviária	Cargo riverboat	3027	Construction of the Laranjal Sluice on the Tietê River Waterway	1 un	Tietê, SP	Laranjal Paulista, SP
		3028	Construction of the Tietê Sluice on the Tietê River Waterway	1 un	Tietê, SP	Tietê, SP
		3029	Construction of the Porto Feliz Sluice on the Tietê River Waterway	1 un	Porto Feliz, SP	Porto Feliz, SP
		3037-INT	Construction of the Salto Grande Sluice on the Paranapanema River Waterway	1 un	Salto Grande, SP	Cambará, PR
		3039	Construction of the São João do Ivaí Sluice on the Ivaí River Waterway	1 un	São João do Ivaí, PR	São Pedro do Ivaí, PR
		3040	Construction of the Ubaúna Sluice on the Ivaí River Waterway	1 un	São João do Ivaí, PR	Kaloré, PR
		3041	Construction of the Foz do Alonzo Sluice on the Ivaí River Waterway	1 un	Lidianópolis, PR	Cruzmaltina, PR
		3042	Construction of the Salto Ariranha Sluice on the Ivaí River Waterway	1 un	Ariranha do Ivaí, PR	Rio Branco do Ivaí, PR
		3044	Construction of the Salto da Laranja Sluice on Sucuriú River Waterway	1 un	Três Lagoas, MS	Selvíria, MS
		3055-INT	Construction of Araguanã sluice on Araguaia River waterway	1 un	Araguanã, TO	Piçarra, PA
3074-INT	Modernization of the Jupιά Sluice on the Paraná River Waterway	1 un	Três Lagoas, MS	Castilho, SP		
Port	Port construction	2913	Construction of Brasil Norte Superport in Abaetetuba	1 un	Abaetetuba, PA	Abaetetuba, PA
Road	Road adjustment	0086	Implementation of signs on BR-472 road from São Borja to Uruguaiana	176,8 km	São Borja, RS	Uruguaiana, RS
		0690	Implementation of signs on TO-080 road from Palmas to Paraíso do Tocantins	69,3 km	Palmas, TO	Paraíso do Tocantins, TO
		0790	Implementation of additional lane on MGT-494/BR-494 road from Oliveira to São João del Rei	20,0 km	Oliveira, MG	São João del Rei, MG

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
		0797	Implementation of signs on BR-469 road in Foz do Iguaçu	20,2 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		2323	Implementation of additional lane on GO-020/BR-352 and GO-330/BR-352 roads from Goiânia to Catalão	169,5 km	Goiânia, GO	Catalão, GO
		2354	Implementation of additional lane on BR-158 road from Jaboticaba to Cruz Alta	86,0 km	Jaboticaba, RS	Cruz Alta, RS
		2355	Implementation of additional lane on BR-287 road from São Vicente do Sul to Santiago	40,0 km	São Vicente do Sul, RS	Santiago, RS
		2356	Implementation of additional lane on BR-386 road from Jaboticaba to Sarandi	51,0 km	Jaboticaba, RS	Sarandi, RS
		2357	Implementation of additional lane on BR-392 road from Santo Ângelo to Porto Xavier	20,0 km	Santo Ângelo, RS	Porto Xavier, RS
		2358	Implementation of additional lane on BR-468 road from Palmeira das Missões to São Martinho	30,0 km	Palmeira das Missões, RS	São Martinho, RS
		2364	Implementation of additional lane on SCT-480/BR-480 road from São Lourenço do Oeste to Xanxerê	37,0 km	São Lourenço do Oeste, SC	Xanxerê, SC
		2473	Implementation of signs on PA-287 from Conceição do Araguaia to Redenção	96,8 km	Conceição do Araguaia, PA	Redenção, PA
		2475	Implementation of signs on PA-483 road in Barcarena	18,5 km	Barcarena, PA	Barcarena, PA
		2487	Implementation of signs on TO-010, TO-445 and TO-342 roads from Palmas to Miranorte	104,4 km	Palmas, TO	Miranorte, TO
		2489	Implementation of signs on TO-280 from Almas to Natividade	77,4 km	Almas, TO	Natividade, TO
		2505	Implementation of signs on PA-150 road from Tailândia to Marabá	332,9 km	Tailândia, PA	Marabá, PA
		2510	Implementation of signs on PA-252 in Moju	23,7 km	Moju, PA	Moju, PA

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	2511	Implementation of signs on PA-475 road from Moju to Tailândia	41,6 km	Moju, PA	Tailândia, PA
		2513	Implementation of signs on PR-281 road in Chopinzinho	16,3 km	Chopinzinho, PR	Chopinzinho, PR
		2519	Implementation of signs on SC-157 road from São Lourenço do Oeste to Chapecó	91,1 km	São Lourenço do Oeste, SC	Chapecó, SC
		2537	Implementation of additional lane on GO-213/BR-490 road from Ipameri to Morrinhos	80,1 km	Ipameri, GO	Morrinhos, GO
		2538	Implementation of signs on BR-010 road from Carolina to Estreito	95,4 km	Carolina, MA	Estreito, MA
		2546	Implementation of signs on BR-158 road from Aparecida do Taboado to Três Lagoas	128,5 km	Aparecida do Taboado, MS	Três Lagoas, MS
		2574	Implementation of signs on BR-230 from Aguiarnópolis to Araguatins	145,3 km	Aguiarnópolis, TO	Araguatins, TO
		2614	Implementation of signs on BR-060 road from Rio Verde to Jataí	106,7 km	Rio Verde, GO	Jataí, GO
		2618	Implementation of additional lane on BR-010 road from Açailândia to Itinga do Maranhão	40,0 km	Açailândia, MA	Itinga do Maranhão, MA
		2634	Implementation of signs on BR-242 road from Cariri do Tocantins to Formoso do Araguaia	81,6 km	Cariri do Tocantins, TO	Formoso do Araguaia, TO
		2653	Implementation of additional lane on PRT-280/BR-280 and BR-280 roads from Vitorino to Flor da Serra do Sul	40,0 km	Vitorino, PR	Flor da Serra do Sul, PR
		2667	Implementation of signs on RST-392/BR-392 road from Entre-Ijuís to Santo Ângelo	21,0 km	Entre-Ijuís, RS	Santo Ângelo, RS
		2671	Implementation of additional lane on SCT-283/BR-283 road from Concórdia to Chapecó	54,0 km	Concórdia, SC	Chapecó, SC

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	2676	Implementation of signs on BR-480 and SC-480 roads in Chapecó	20,0 km	Chapecó, SC	Chapecó, SC
		2677	Implementation of additional lane on SP-563/BR-158 road from Tupi Paulista to Presidente Venceslau	49,0 km	Tupi Paulista, SP	Presidente Venceslau, SP
		2682	Implementation of additional lane on PRT-158/BR-158 road in Vitorino	13,0 km	Vitorino, PR	Vitorino, PR
		2683	Implementation of additional lane on BR-158 road from Palmital to Chopinzinho	136,0 km	Palmital, PR	Chopinzinho, PR
		3485	Implementation of signs on BR-235 road from Monte Alegre do Piauí to Santa Filomena	134,9 km	Monte Alegre do Piauí, PI	Santa Filomena, PI
		3595	Implementation of signs on BR-230 road from Balsas to Carolina	165,8 km	Balsas, MA	Carolina, MA
		3609	Adjustment of crossing on BR-010 road in Imperatriz	14,4 km	Imperatriz, MA	Imperatriz, MA
		3631	Implementation of additional lane on SP-310/BR-262 and SP-563/BR-262 roads from Auriflama to Andradina	54,0 km	Auriflama, SP	Andradina, SP
		3633	Implementation of signs on SP-294 road from Parapuã to Tupi Paulista	97,8 km	Parapuã, SP	Tupi Paulista, SP
		3634	Implementation of signs on SP-310 road from Pereira Barreto to Ilha Solteira	21,3 km	Pereira Barreto, SP	Ilha Solteira, SP
		3635	Implementation of signs on SP-563 road from Tupi Paulista to Andradina	65,4 km	Tupi Paulista, SP	Andradina, SP
		3642	Implementation of additional lane on BR-365 road from Monte Alegre de Minas to Ituiutaba	44,0 km	Monte Alegre de Minas, MG	Ituiutaba, MG
		3643	Implementation of signs on BR-365 road from Ituiutaba to Santa Vitória	109,2 km	Ituiutaba, MG	Santa Vitória, MG
		3651	Implementation of signs on SP-425 road from Presidente Prudente to Pirapozinho	69,1 km	Presidente Prudente, SP	Pirapozinho, SP

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3677	Implementation of signs on SPA-074, SP-613 and SPA-079 roads in Rosana	22,4 km	Rosana, SP	Rosana, SP
		3679	Construction of bridge on SP-147 over Tietê River in Anhembi	0,2 km	Anhembi, SP	Anhembi, SP
		3680	Construction of bridge on SP-191 over Tietê River from Anhembi to Botucatu	1,0 km	Anhembi, SP	Botucatu, SP
		3690	Adjustment of crossing on BR-262 in Uberaba	16,5 km	Uberaba, MG	Uberaba, MG
		3708	Implementation of signs on BR-364 road from Ituiutaba to Santa Vitória	96,0 km	Ituiutaba, MG	Santa Vitória, MG
		3755	Implementation of additional lane on SCT-283/BR-283 road from Chapecó to Palmitos	61,0 km	Chapecó, SC	Palmitos, SC
		3761	Implementation of signs on SC-305 road from Anchieta to Guaraciaba	23,8 km	Anchieta, SC	Guaraciaba, SC
		3762	Implementation of signs on SC-305 road from São Lourenço do Oeste to Campo Erê	47,0 km	São Lourenço do Oeste, SC	Campo Erê, SC
		3771	Implementation of additional lane on MGT-452/BR-452 road from Perdizes to Araxá	27,0 km	Perdizes, MG	Araxá, MG
		3820	Implementation of signs on BR-158 road from Iraí to Frederico Westphalen	40,5 km	Iraí, RS	Frederico Westphalen, RS
		3822	Implementation of signs on BR-158 and PRT-158/BR-158 roads from Coronel Vivida to Vitorino	47,0 km	Coronel Vivida, PR	Vitorino, PR
		3824	Implementation of additional lane on BR-373 road from Candói to Coronel Vivida	62,0 km	Candói, PR	Coronel Vivida, PR
		3829	Implementation of signs on BR-280 road from Flor da Serra do Sul to Barracão	24,1 km	Flor da Serra do Sul, PR	Barracão, PR
		3830	Implantation of signs on BR-285 road from Entre-Ijuís to São Borja	188,5 km	Entre-Ijuís, RS	São Borja, RS
3832	Implementation of signs on BR-060 road from Goiânia to Aparecida de Goiânia	16,8 km	Goiânia, GO	Aparecida de Goiânia, GO		



Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3833	Implementation of additional lane on road BR-285 from Santa Bárbara do Sul to Panambi	24,0 km	Santa Bárbara do Sul, RS	Panambi, RS
		3836-INT	Construction of 2nd bridge on BR-153 from Itumbiara to Araporã	0,3 km	Itumbiara, GO	Araporã, MG
		3839	Implementation of signs on BR-287 road from Santiago to São Borja	132,7 km	Santiago, RS	São Borja, RS
		3848	Implementation of additional lane on BR-080 road from Padre Bernardo to Barro Alto	86,0 km	Padre Bernardo, GO	Barro Alto, GO
		3849	Implementation of signs on BR-080 road from Barro Alto to Uruaçu	55,5 km	Barro Alto, GO	Uruaçu, GO
		3854	Implementation of signs on BR-290 road from Alegrete to Uruguaiana	79,3 km	Alegrete, RS	Uruguaiana, RS
		3855	Implementation of additional lane on GO-210/BR-352 road from Catalão to Davinópolis	30,0 km	Catalão, GO	Davinópolis, GO
		3856	Implementation of signs on BR-293 road from Sant'Ana do Livramento to Quaraí	108,5 km	Sant'Ana do Livramento, RS	Quaraí, RS
		3863	Implementation of signs on PR-323, PRT-487/BR-487 and BR-272 roads from Maringá to Guaíra	263,1 km	Maringá, PR	Guaíra, PR
		3872	Implementation of signs on GO-225 road from Corumbá de Goiás to Pirenópolis	19,3 km	Corumbá de Goiás, GO	Pirenópolis, GO
		3873	Implementation of signs on GO-237 road from Niquelândia to Uruaçu	85,7 km	Niquelândia, GO	Uruaçu, GO
		3878	Implementation of signs on BR-468 road from São Martinho to Três Passos	38,5 km	São Martinho, RS	Três Passos, RS
		3879	Implementation of additional lane on BR-468 road from Três Passos to Tiradentes do Sul	36,0 km	Três Passos, RS	Tiradentes do Sul, RS
		3889	Implementation of additional lane on RST-472/BR-472 road from Frederico Westphalen to Três Passos	62,0 km	Frederico Westphalen, RS	Três Passos, RS

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3890	Implementation of signs on RS-344/BR-472, BR-472 and RST-472/BR-472 roads from Santa Rosa to Porto Xavier	79,0 km	Santa Rosa, RS	Porto Xavier, RS
		3894	Construction of bridge on BR-472 over the Ibicuí River from Itaqui to Uruguaiana	6,2 km	Itaqui, RS	Uruguaiana, RS
		3898	Construction of bridge on BR-392 over Uruguai River in Porto Xavier	0,9 km	Porto Xavier, RS	Porto Xavier, RS
		3916	Implementation of additional lane on BR-376 road from Nova Londrina to Paranavaí	12,0 km	Nova Londrina, PR	Paranavaí, PR
		3925	Construction of 2nd bridge on BR-277 over the Paraná River in Foz do Iguaçu	0,8 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		3933	Implementation of signs on MS-480 road from Anaurilândia to Batayporã	30,2 km	Anaurilândia, MS	Batayporã, MS
		3940	Adjustment of Maringá North Bypass on BR-376	11,2 km	Maringá, PR	Maringá, PR
		3952	Implementation of signs on TO-373 from Alvorada to Araguaçu	109,4 km	Alvorada, TO	Araguaçu, TO
		3953	Implementation of signs on TO-080 from Paraíso do Tocantins to Caseara	191,5 km	Paraíso do Tocantins, TO	Caseara, TO
		3955	Implementation of signs on BR-153 from Xambioá to Wanderlândia	90,4 km	Xambioá, TO	Wanderlândia, TO
		3956-INT	Construction of bridge on BR-153 over Araguaia River from São Geraldo do Araguaia to Xambioá	1,7 km	São Geraldo do Araguaia, PA	Xambioá, TO
		0193	Construction of BR-242 road in Formoso do Araguaia	89,5 km	Formoso do Araguaia, TO	Formoso do Araguaia, TO
		0928	Construction of BR-272 road from Goioerê to Iporã	73,0 km	Goioerê, PR	Iporã, PR
		0929	Construction of BR-235 from Lizarda to Bom Jesus do Tocantins	158,8 km	Lizarda, TO	Bom Jesus do Tocantins, TO
		0930	Construction of BR-235 road from Alto Parnaíba to Balsas	110,0 km	Alto Parnaíba, MA	Balsas, MA

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road construction	0939	Construction of BR-080 road from Cocalinho to Ribeirão Cascalheira	170,0 km	Cocalinho, MT	Ribeirão Cascalheira, MT
		0946	Construction of BR-464 road from Ituiutaba to Prata	78,7 km	Ituiutaba, MG	Prata, MG
		0957	Construction of BR-242 from Taguatinga to Paranã	147,8 km	Taguatinga, TO	Paraná, TO
		2219	Construction of BR-235 road in Santa Maria das Barreiras	101,8 km	Santa Maria das Barreiras, PA	Santa Maria das Barreiras, PA
		2228	Construction of BR-235 and TO-438/BR-235 roads from Guaraí to Araguacema	111,4 km	Guaraí, TO	Araguacema, TO
		2235	Construction of PA-151 from Mocajuba to Breu Branco	221,7 km	Mocajuba, PA	Breu Branco, PA
		2255	Construction of BR-457 road from Ipameri to Vianópolis	119,9 km	Ipameri, GO	Vianópolis, GO
		2259	Construction of Ring Road in Goiânia	63,9 km	Aparecida de Goiânia, GO	Goiânia, GO
		2263	Construction of MST-483/BR-483 road in Paranaíba	41,0 km	Paranaíba, MS	Paranaíba, MS
		2264	Construction of MS-040 road from Brasilândia to Santa Rita do Pardo	91,0 km	Brasilândia, MS	Santa Rita do Pardo, MS
		2274	Construction of the 3rd Ring Road in Goiânia Metropolitan Region	107,0 km	Aragoiânia, GO	Silvânia, GO
		2278	Construction of BR-487 road from Icaraíma to Campo Mourão	157,0 km	Icaraíma, PR	Campo Mourão, PR
		2282	Construction of BR-392 road from Tupanciretã to Entre-Ijuís	135,6 km	Tupanciretã, RS	Entre-Ijuís, RS
		3719	Construction of Road Ring in Uberaba	66,0 km	Uberaba, MG	Uberaba, MG
		3795	Construction of BR-464 road from Prata to Uberaba	110,2 km	Prata, MG	Uberaba, MG
		3813	Construction of Jataí Bypass on BR-060	23,6 km	Jataí, GO	Jataí, GO
		3954	Construction of BR-010 from Rio Sono to Santa Maria do Tocantins	111,2 km	Rio Sono, TO	Santa Maria do Tocantins, TO

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road duplication	0067	Duplication of BR-163 road from Barracão to Guaíra	317,5 km	Barracão, PR	Guaíra, PR
		0069	Duplication of BR-277 road from Balsa Nova to Matelândia	500,6 km	Balsa Nova, PR	Matelândia, PR
		0085	Duplication of BR-285 road from Panambi to Entre-Ijuís	82,9 km	Panambi, RS	Entre-Ijuís, RS
		0099	Duplication of BR-153 road from José Bonifácio to Ourinhos	216,0 km	José Bonifácio, SP	Ourinhos, SP
		2210	Duplication of BR-010 road from Estreito to Açailândia	192,0 km	Estreito, MA	Açailândia, MA
		2254	Duplication of BR-226 and BR-153 roads from Aguiarnópolis to Talismã	746,8 km	Aguiarnópolis, TO	Talismã, TO
		2270	Duplication of BR-153 road from Porangatu to Anápolis	424,0 km	Porangatu, GO	Anápolis, GO
		2291	Duplication of BR-282 road from Maravilha to São Miguel do Oeste	41,2 km	Maravilha, SC	São Miguel do Oeste, SC
		2344	Duplication of BR-272 road from Campo Mourão to Goioerê	72,1 km	Campo Mourão, PR	Goioerê, PR
		2360	Duplication of BR-163 road from São Miguel do Oeste to Dionísio Cerqueira	62,0 km	São Miguel do Oeste, SC	Dionísio Cerqueira, SC
		2361	Duplication of BR-282 road from Irani to Cunha Porã	159,8 km	Irani, SC	Cunha Porã, SC
		2571	Duplication of BR-158 road from Maravilha to Palmitos	39,8 km	Maravilha, SC	Palmitos, SC
		2632	Duplication of BR-010, TO-280/BR-010, TO-050/BR-010 and TO-020/BR-010 roads from Paranã to Rio Sono	406,5 km	Paraná, TO	Rio Sono, TO
		2633	Duplication of BR-242 road from Peixe to Gurupi	104,3 km	Peixe, TO	Gurupi, TO
		2646	Duplication of BR-158 from Redenção to Santana do Araguaia	289,8 km	Redenção, PA	Santana do Araguaia, PA
2679	Duplication of TO-010/BR-235 and BR-235 roads from Bom Jesus do Tocantins to Guaraí	44,1 km	Bom Jesus do Tocantins, TO	Guaraí, TO		

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road duplication	3703	Duplication of MGT-154/BR-154 and BR-154 roads from Ituiutaba to Itapagipe	41,7 km	Ituiutaba, MG	Itapagipe, MG
		3706	Duplication of MGT-497/BR-497 road from Prata to Campina Verde	68,9 km	Prata, MG	Campina Verde, MG
		3707	Duplication of BR-364 road in Santa Vitória	10,0 km	Santa Vitória, MG	Santa Vitória, MG
		3770	Duplication of BR-452 road from Tupaciguara to Monte Alegre de Minas	32,6 km	Tupaciguara, MG	Monte Alegre de Minas, MG
		3821	Duplication of BR-158 road from Frederico Westphalen to Jaboticaba	32,2 km	Frederico Westphalen, RS	Jaboticaba, RS
		3823	Duplication of BR-364 road from São Simão to Cachoeira Alta	89,0 km	São Simão, GO	Cachoeira Alta, GO
		3850	Duplication of BR-154 and GO-206/BR-154 roads from Itumbiara to Cachoeira Dourada	39,1 km	Itumbiara, GO	Cachoeira Dourada, GO
		3862	Duplication of BR-452 road from Rio Verde to Itumbiara	175,2 km	Rio Verde, GO	Itumbiara, GO
		3864	Duplication of GO-206/BR-483 and GO-164/BR-483 roads from Cachoeira Dourada to Paranaiguara	161,2 km	Cachoeira Dourada, GO	Paranaiguara, GO
		3922	Duplication of BR-158 and BR-436 roads from Cassilândia to Aparecida do Taboado	147,5 km	Cassilândia, MS	Aparecida do Taboado, MS
	Paving of road	0176	Paving of BR-242 road from São Félix do Araguaia to Alto Boa Vista	89,0 km	São Félix do Araguaia, MT	Alto Boa Vista, MT
		0938	Paving of BR-080 road from Uruaçu to São Miguel do Araguaia	218,4 km	Uruaçu, GO	São Miguel do Araguaia, GO
		2220	Paving of BR-422 from Novo Repartimento to Tucuruí	63,7 km	Novo Repartimento, PA	Tucuruí, PA
		2238	Paving of PA-256 from Paragominas to Moju	315,3 km	Paragominas, PA	Moju, PA
		2240	Paving of PA-407 in Igarapé-Miri	16,4 km	Igarapé-Miri, PA	Igarapé-Miri, PA
		2247	Paving of PA-467 from Igarapé-Miri to Cametá	18,8 km	Igarapé-Miri, PA	Cametá, PA
		2248	Paving of PA-471 road from Cametá to Mocajuba	8,9 km	Cametá, PA	Mocajuba, PA

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Paving of road	2249	Paving of PA-477 from São Geraldo do Araguaia to Xinguara	111,4 km	São Geraldo do Araguaia, PA	Xinguara, PA
		2260	Paving of GO-164/BR-483 road from Caçu to Itajá	64,8 km	Caçu, GO	Itajá, GO
		2277	Paving of BR-158 road from Campo Mourão to Palmital	106,1 km	Campo Mourão, PR	Palmital, PR
		2302	Paving of BR-154 road in Ituiutaba	46,4 km	Ituiutaba, MG	Ituiutaba, MG
	Restoration of pavement on road	0128	Restoration of pavement on MA-006 road from Buriticupu to São Raimundo das Mangabeiras	415,3 km	Buriticupu, MA	São Raimundo das Mangabeiras, MA
		0259	Restoration of pavement on PR-468 and PR-180 roads from Umuarama to Goioerê	58,8 km	Umuarama, PR	Goioerê, PR
		2467	Restoration of pavement on MG-190 road from the Abadia dos Dourados to Romaria	61,2 km	Abadia dos Dourados, MG	Romaria, MG
		2472	Restoration of pavement on PA-150 road in Redenção	16,4 km	Redenção, PA	Redenção, PA
		2474	Restoration of pavement on PA-447 road in Conceição do Araguaia	13,4 km	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		2488	Restoration of pavement on TO-222 from Filadélfia to Araguaína	110,7 km	Filadélfia, TO	Araguaína, TO
		2515	Restoration of pavement on RS-342 road from Ijuí to Cruz Alta	45,0 km	Ijuí, RS	Cruz Alta, RS
		2520	Restoration of pavement on TO-040 road from Almas to Ponte Alta do Bom Jesus	112,1 km	Almas, TO	Ponte Alta do Bom Jesus, TO
		2522	Restoration of pavement on TO-335 and TO-336 roads from Palmeirante to Couto Magalhães	193,0 km	Palmeirante, TO	Couto Magalhães, TO
		2540	Restoration of pavement on BR-352 road in Abadia dos Dourados	42,5 km	Abadia dos Dourados, MG	Abadia dos Dourados, MG
		2543	Restoration of pavement on MGT-452/BR-452 road from Araporã to Tupaciguara	58,5 km	Araporã, MG	Tupaciguara, MG

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	2624	Restoration of pavement on MGT-452/BR-452 road from Uberlândia to Perdizes	121,4 km	Uberlândia, MG	Perdizes, MG
		2629	Restoration of pavement on MGT-497/BR-497 road from Campina Verde to Carneirinho	168,5 km	Campina Verde, MG	Carneirinho, MG
		2635	Restoration of pavement on BR-158 road from Três Lagoas to Brasilândia	81,1 km	Três Lagoas, MS	Brasilândia, MS
		2640	Restoration of pavement on MST-483/BR-483 and MST-497/BR-497 roads in Paranaíba	19,5 km	Paranaíba, MS	Paranaíba, MS
		2644	Restoration of pavement on BR-153 road from São João do Araguaia to São Geraldo do Araguaia	111,2 km	São João do Araguaia, PA	São Geraldo do Araguaia, PA
		2645	Restoration of pavement on BR-155 road from Redenção to Marabá	346,3 km	Redenção, PA	Marabá, PA
		2648	Restoration of pavement on BR-222 road from Dom Eliseu to Marabá	226,3 km	Dom Eliseu, PA	Marabá, PA
		2665	Restoration of pavement on RST-377/BR-377 road from Jóia to Alegrete	233,2 km	Jóia, RS	Alegrete, RS
		2669	Restoration of pavement on BR-158 road in Palmitos	11,8 km	Palmitos, SC	Palmitos, SC
		3591	Restoration of pavement on BR-226 road from Grajaú to Porto Franco	149,9 km	Grajaú, MA	Porto Franco, MA
		3593	Restoration of pavement on BR-230 road from São Raimundo das Mangabeiras to Balsas	38,6 km	São Raimundo das Mangabeiras, MA	Balsas, MA
		3600	Restoration of pavement on MA-006/BR-330 and MA-006 roads from Balsas to Alto Parnaíba	235,1 km	Balsas, MA	Alto Parnaíba, MA
		3702	Restoration of pavement on MGT-154/BR-154 road from Cachoeira Dourada to Ituiutaba	55,8 km	Cachoeira Dourada, MG	Ituiutaba, MG
		3704	Restoration of pavement on BR-497 and MGT-497/BR-497 roads from Uberlândia to Prata	76,4 km	Uberlândia, MG	Prata, MG

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	3764	Restoration of pavement on SC-161 road from Campo Erê to Anchieta	15,5 km	Campo Erê, SC	Anchieta, SC
		3772	Restoration of pavement on MGT-455/BR-455 road from Uberlândia to Prata	68,5 km	Uberlândia, MG	Prata, MG
		3786	Restoration of pavement on MG-223 and MG-413 roads in Araguari	67,1 km	Araguari, MG	Araguari, MG
		3860	Restoration of pavement on RST-377/BR-377 road from Uruguaiana to Quaraí	47,8 km	Uruguaiana, RS	Quaraí, RS
		3865	Restoration of pavement on PR-323 road in Maringá	11,9 km	Maringá, PR	Maringá, PR
		3868	Restoration of pavement on GO-174 road in Rio Verde	11,0 km	Rio Verde, GO	Rio Verde, GO
		3870	Restoration of pavement on GO-178 and GO-206 roads from Itajá to Cachoeira Alta	85,5 km	Itajá, GO	Cachoeira Alta, GO
		3875	Restoration of pavement on GO-302 road from Aporé to Itajá	48,8 km	Aporé, GO	Itajá, GO
		3892	Restoration of pavement on BR-472 road from Uruguaiana to Barra do Quaraí	73,3 km	Uruguaiana, RS	Barra do Quaraí, RS
		3910	Restoration of pavement on PR-182/BR-376 road from Diamante do Norte to Nova Londrina	33,3 km	Diamante do Norte, PR	Nova Londrina, PR
		3932	Restoration of pavement on MS-134/BR-376 and MS-276 roads from Nova Andradina to Anaurilândia	36,2 km	Nova Andradina, MS	Anaurilândia, MS
		3935	Restoration of pavement on PR-317 road from Santo Inácio to Maringá	92,9 km	Santo Inácio, PR	Maringá, PR
		3937	Restoration of pavement on PR-317, PR-488 and PR-495 roads from Toledo to Medianeira	150,0 km	Toledo, PR	Medianeira, PR
		3938	Restoration of pavement on PR-495 road from Santa Helena to Marechal Cândido Rondon	25,5 km	Santa Helena, PR	Marechal Cândido Rondon, PR
3941	Restoration of pavement on MS-395 road from Brasilândia to Bataguassu	68,3 km	Brasilândia, MS	Bataguassu, MS		



Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State		
Terminal	Terminal adjustment	0544	Expansion of the intermodal cargo terminal in Pederneiras	1 un	Pederneiras, SP	Pederneiras, SP		
		3180	Adjustment of the rail freight terminal in Cascavel	1 un	Cascavel, PR	Cascavel, PR		
		3251	Expansion of the waterway cargo terminal in Araçatuba	1 un	Araçatuba, SP	Araçatuba, SP		
	Terminal construction		0366	Construction of cargo waterway terminal in Itumbiara	1 un	Itumbiara, GO	Itumbiara, GO	
			0369	Construction of freight terminal in Morrinhos	1 un	Morrinhos, GO	Morrinhos, GO	
			0370	Construction of freight terminal in Rialma	1 un	Rialma, GO	Rialma, GO	
			0373	Construction of intermodal cargo terminal in Estreito	1 un	Estreito, MA	Estreito, MA	
			0375	Construction of intermodal cargo terminal in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA	
			0406	Construction of intermodal cargo terminal in Três Lagoas	1 un	Três Lagoas, MS	Três Lagoas, MS	
				0417	Construction of waterway cargo terminal in Breu Branco	2 un	Breu Branco, PA	Breu Branco, PA
				0421	Construction of logistics platform in Marabá	1 un	Marabá, PA	Marabá, PA
				0444	Construction of intermodal cargo terminal in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
				0445	Construction of cargo waterway terminal in Guaíra	1 un	Guaíra, PR	Guaíra, PR
		0504		Construction of freight terminal in Chapecó	1 un	Chapecó, SC	Chapecó, SC	
		0535		Construction of cargo waterway terminal in Pereira Barreto	1 un	Pereira Barreto, SP	Pereira Barreto, SP	
		0536		Construction of cargo waterway terminal in Rosana	1 un	Rosana, SP	Rosana, SP	
		0541	Construction of intermodal cargo terminal in Igarapava	1 un	Igarapava, SP	Igarapava, SP		

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	0543	Construction of intermodal cargo terminal in Panorama	1 un	Panorama, SP	Panorama, SP
		0547	Construction of cargo waterway terminal in Tietê	1 un	Tietê, SP	Tietê, SP
		0550	Construction of waterway cargo terminal in Aguiarnópolis	1 un	Aguiarnópolis, TO	Aguiarnópolis, TO
		0552	Construction of waterway terminal in Couto Magalhães	1 un	Couto Magalhães, TO	Couto Magalhães, TO
		0553	Construction of waterway cargo terminal in Miracema do Tocantins	1 un	Miracema do Tocantins, TO	Miracema do Tocantins, TO
		0554	Construction of logistics platform in Palmas	1 un	Palmas, TO	Palmas, TO
		0555	Construction of waterway cargo terminal in Pedro Afonso	1 un	Pedro Afonso, TO	Pedro Afonso, TO
		0556	Construction of waterway cargo terminal in Peixe	1 un	Peixe, TO	Peixe, TO
		1773	Construction of rail freight terminal in Campinorte	1 un	Campinorte, GO	Campinorte, GO
		1774	Construction of rail freight terminal in Alvorada	1 un	Alvorada, TO	Alvorada, TO
		1775	Construction of logistics platform in Anápolis	1 un	Anápolis, GO	Anápolis, GO
		1776	Construction of intermodal cargo terminal in São Simão	1 un	São Simão, GO	São Simão, GO
		1779	Construction of rail freight terminal in Maracaju	1 un	Maracaju, MS	Maracaju, MS
		1784	Construction of rail freight terminal in Balsas	1 un	Balsas, MA	Balsas, MA
		1789	Construction of cargo waterway terminal in Balsas	1 un	Balsas, MA	Balsas, MA
		1798	Construction of rail freight terminal in Ribeirão Cascalheira	1 un	Ribeirão Cascalheira, MT	Ribeirão Cascalheira, MT
		1801	Construction of rail freight terminal in Campo Mourão	1 un	Campo Mourão, PR	Campo Mourão, PR
		1811	Construction of cargo waterway terminal in São Borja	1 un	São Borja, RS	São Borja, RS

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	1812	Construction of cargo waterway terminal in Uruguaiana	1 un	Uruguaiana, RS	Uruguaiana, RS
		1813	Construction of rail freight terminal in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1814	Construction of cargo waterway terminal in Sertanópolis	1 un	Sertanópolis, PR	Sertanópolis, PR
		1815	Construction of cargo waterway terminal in Doutor Camargo	1 un	Doutor Camargo, PR	Doutor Camargo, PR
		1820	Construction of cargo waterway terminal in Santa Terezinha de Itaipu	1 un	Santa Terezinha de Itaipu, PR	Santa Terezinha de Itaipu, PR
		1833	Construction of cargo waterway terminal in Batayporã	1 un	Batayporã, MS	Batayporã, MS
		1834	Construction of cargo waterway terminal in Buritama	1 un	Buritama, SP	Buritama, SP
		1835	Construction of cargo waterway terminal in Ibitinga	1 un	Ibitinga, SP	Ibitinga, SP
		1836	Construction of cargo waterway terminal in Paranaíba	1 un	Paranaíba, MS	Paranaíba, MS
		1837	Construction of cargo waterway terminal in Querência do Norte	1 un	Querência do Norte, PR	Querência do Norte, PR
		1838	Construction of cargo waterway terminal in Ubarana	1 un	Ubarana, SP	Ubarana, SP
		1839	Construction of cargo waterway terminal in Sabino	1 un	Sabino, SP	Sabino, SP
		1842	Construction of cargo waterway terminal in Cumari	1 un	Cumari, GO	Cumari, GO
		1843	Construction of cargo waterway terminal in Novo Horizonte	1 un	Novo Horizonte, SP	Novo Horizonte, SP
		1844	Construction of waterway cargo terminal in Barra do Ouro	1 un	Barra do Ouro, TO	Barra do Ouro, TO
		1863	Construction of waterway cargo terminal in Porto Nacional	1 un	Porto Nacional, TO	Porto Nacional, TO

Table 7 - List of North-South Corridor Projects (E3)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	1864	Construction of cargo waterway terminal in Carolina	1 un	Carolina, MA	Carolina, MA
		2387	Construction of cargo waterway terminal in Santa Filomena	1 un	Santa Filomena, PI	Santa Filomena, PI
		2396	Construction of mixed waterway terminal in Abaetetuba	1 un	Abaetetuba, PA	Abaetetuba, PA
		2397	Construction of mixed waterway terminal in Cametá	1 un	Cametá, PA	Cametá, PA
		2398	Terminal construction mixed waterway terminal in Conceição do Araguaia	1 un	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		2400	Construction of mixed waterway terminal in Tucuruí	1 un	Tucuruí, PA	Tucuruí, PA
		2847	Construction of parking lot for cargo vehicles in Goiânia Metropolitan Region	1 un	Goiânia, GO	Goiânia, GO

### 5.3.2 ESTIMATE OF INVESTMENT IN THE NORTH-SOUTH CORRIDOR (E3)

The estimated minimum costs required for implementation of the projects proposed for the North-South Corridor are presented in Table 8.

Table 8 - Minimum Investment - North-South Corridor (E3)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	28 un	2.042.004.322,26
	Airport construction	4 un	368.306.300,34
Rail	Railway construction	7.612,9 km	107.353.975.720,41
	Elimination of bottlenecks	19 un	37.620.337,99
	Restoration of railway	281,1 km	1.273.505.476,57
Waterway	Channel opening	592,8 km	5.437.346.889,18
	Waterway adjustment	8.869,6 km	28.538.061.041,03
		18 un	1.222.345.901,20
	Cargo riverboat	64 un	67.841.922.892,29
Port	Port construction	1 un	7.989.486.573,22
Road	Road adjustment	5.537,0 km	6.588.798.300,87
	Road construction	2.289,1 km	12.527.597.629,08
	Road duplication	4.496,8 km	51.435.477.780,60
	Paving of road	1.059,2 km	4.368.154.413,00
	Restoration of pavement on road	3.837,6 km	11.869.423.624,90
Terminal	Terminal adjustment	3 un	142.878.921,33
	Terminal construction	56 un	4.104.377.463,35
<b>Total</b>			<b>313.141.283.587,62</b>

## 5.4 AMAZON CORRIDOR (E4)

The Amazon Corridor consists entirely of a waterway route that connects the port facilities of the municipality of Santana, AP to Tabatinga, AM, located on the border of Brazil with Peru and Colombia through waterways on the Amazon (from Santana, AP to Manaus, AM) and Solimões (from Manaus, AM to Tabatinga, AM) rivers, contributing to a broader integration of South American countries.

Along the way, the corridor includes the Port of Santana, AP, which enjoys a potentially advantageous location due to its proximity to Central and North America and Europe, as well as to the Panama Canal, which allows access to Asian markets. The corridor then passes through waterway transportation locations important to the North Region, such as Santarém, PA, Itacoatiara, AM and Manaus, AM, in addition to enabling access to the city of Boa Vista, RR via complementary links.

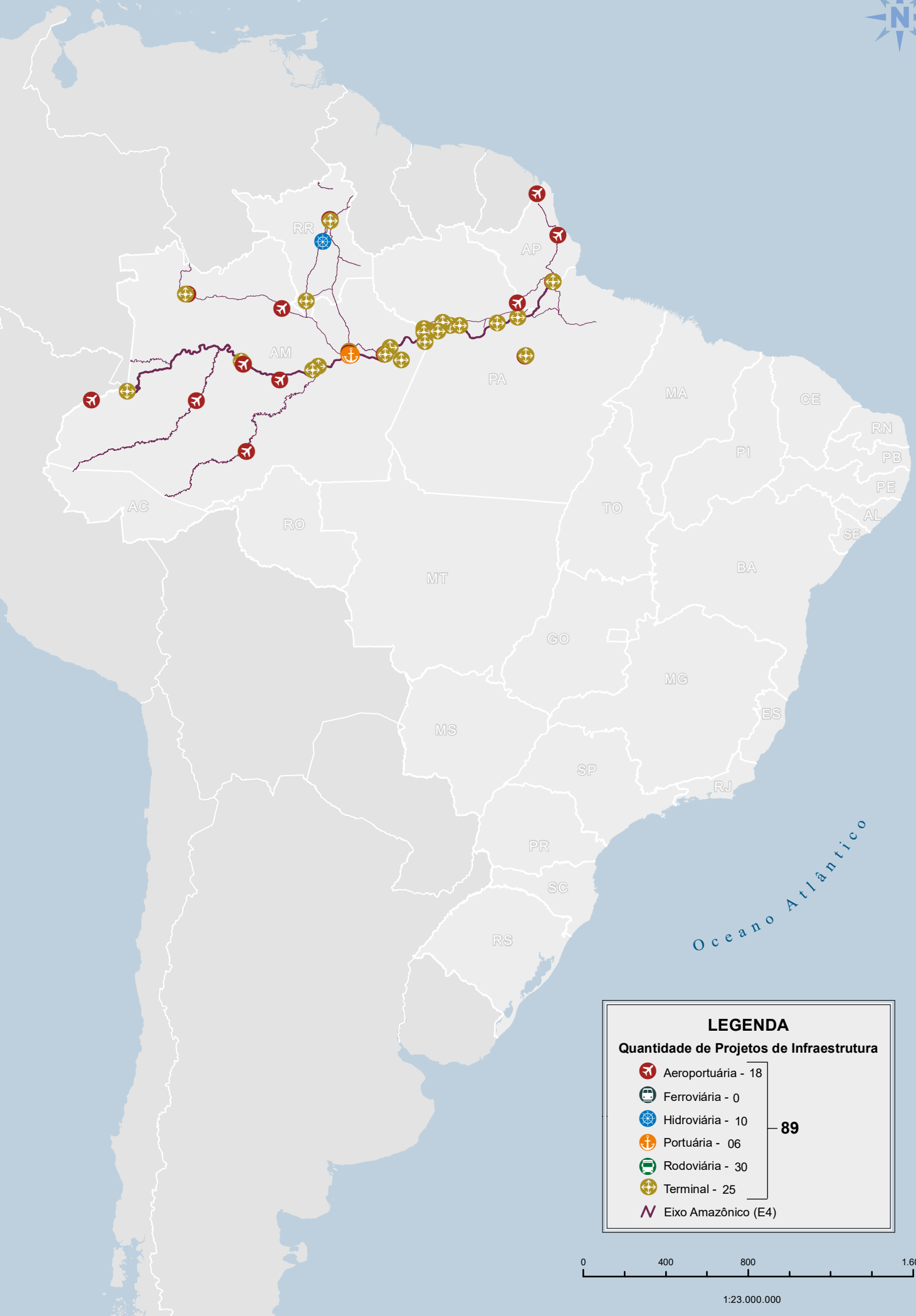
The port terminals of Santarém, PA and Itacoatiara, AM represent important points of transshipment and cargo processing, especially bulk agricultural cargo from the Central-West Region of the country transported to these locations via waterways of the Madeira and Tapajós rivers. Manaus, AM, in turn, is the main urban and industrial center of the country's North Region, and also serves as a tourist attraction in the Amazon region.

Along its route, the Amazon Corridor (E4) connects with the Central-North Corridor (E5) in Santarém, PA, and the North-Southeast Corridor (E6) in Itacoatiara, AM, enabling continuity of cargo flows from these corridors bound for the Atlantic Ocean. It also interconnects with the Cabotage Corridor (E9) in Santana, AP.

The Amazon Corridor and its projects are displayed in Figure 11.



Figure 11 - Amazon Corridor (E4)

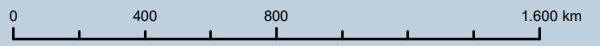


**LEGENDA**

**Quantidade de Projetos de Infraestrutura**

- Aeroportuária - 18
- Ferroviária - 0
- Hidroviária - 10
- Portuária - 06
- Rodoviária - 30
- Terminal - 25
- Eixo Amazônico (E4)

**89**



1:23.000.000

### 5.4.1 PROJECTS OF THE AMAZON CORRIDOR (E4)

Among the projects proposed for the Amazon Corridor route are the interventions on the waterways of the Solimões and Amazon rivers, aimed at improving the navigability of this corridor through which the North Region's main passenger and commodity flows pass. On the Solimões River waterway, interventions are proposed for the removal of mobile sandbanks, which cause depth limitations, particularly during the river's ebb period. On the Amazon River waterway, interventions are proposed for signaling and beacon installation. The construction of several mixed-use waterway terminals is also proposed for the Amazon waterway system, which will enable integration with other modes of transport.

Notable complementary infrastructures along the Amazon Corridor's main route are the port projects, which exist only in this corridor and in the Cabotage Corridor (E9). These interventions, located in Manaus, AM, include adjustment projects as well as the construction of terminals and the Centro-Amazônica port - linked to the Manaus Industrial Center - which will afford increased container handling capacity.

Also of note on the Amazon Corridor are the airport projects proposed. Considering the sparse occupation of the region in which they are located, characterized by large distances between the various population centers, these projects are essential to ensuring the rapid and safe transportation of people and goods. Noteworthy among the projects proposed are the construction and expansion of passenger terminals in Macapá, AP, Itacoatiara, AM, Carauari, AM, Coari, AM and Lábrea, AM.

With regard to road projects, highlights include the construction of highway PA-254, the paving of BR-156 road in Amapá and restoration of pavement on AM-010 road in Amazonas, all of which are important alternatives to the Amazon River for the connecting some of the Region's main localities.

Other complementary infrastructures of the Corridor include waterway adjustment projects, in particular those of the Rio Branco, Rio Negro and Purus rivers, which propose dredging of and beacon installation on the riverbed and the construction of a sluice.

Table 9 presents the projects proposed for the Amazon Corridor.



Table 9 - List of projects of the Amazon Corridor (E4)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1545	Implementation of air navigation groups at Amapá Airport	1 un	Amapá, AP	Amapá, AP
		1596	Expansion of Altamira Airport	1 un	Altamira, PA	Altamira, PA
		1603	Implementation of air navigation groups at Monte Dourado Airport in Almeirim	1 un	Almeirim, PA	Almeirim, PA
		1640	Restoration of Atlas Brasil Cantanhede Airport in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR
		2904	Implementation of security systems at Oiapoque Airport	1 un	Oiapoque, AP	Oiapoque, AP
		2907	Restoration of runway system at Eduardo Gomes Airport in Manaus	1 un	Manaus, AM	Manaus, AM
		2908	Modernization of equipment at Eduardo Gomes Airport in Manaus	1 un	Manaus, AM	Manaus, AM
		3357	Repair of runway at Tefé Airport	1 un	Tefé, AM	Tefé, AM
		3358	Expansion of passenger terminal and aircraft yard at Carauari Airport	1 un	Carauari, AM	Carauari, AM
		3359	Expansion of passenger terminal and vehicle parking lot at Itacoatiara Airport	1 un	Itacoatiara, AM	Itacoatiara, AM
		3360	Restoration of runway at Barcelos Airport	1 un	Barcelos, AM	Barcelos, AM
		3361	Expansion of Estirão do Equador Airport in Atalaia do Norte	1 un	Atalaia do Norte, AM	Atalaia do Norte, AM
		3362	Expansion of São Gabriel da Cachoeira (Iauaretê) Airport	1 un	São Gabriel da Cachoeira, AM	São Gabriel da Cachoeira, AM
		3363	Construction of passenger terminal, restoration of runway system and implementation of equipment at Coari Airport	1 un	Coari, AM	Coari, AM
3364	Construction of passenger terminal, restoration of runway system and implementation of equipment at Lábrea Airport	1 un	Lábrea, AM	Lábrea, AM		

Table 9 - List of projects of the Amazon Corridor (E4)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	3366	Acquisition of fire engines for Atlas Brasil Cantanhede Airport in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR
	Airport construction	1506	Construction of new passenger terminal at Alberto Alcolumbre Airport in Macapá	1 un	Macapá, AP	Macapá, AP
		1546	Construction of freight terminal of Alberto Alcolumbre Airport in Macapá	1 un	Macapá, AP	Macapá, AP
Waterway	Adjustment of waterway	0191-INT	Adjustment of Marajó waterway between Tocantins and Amazon rivers	380,0 km	Limoeiro do Ajuru, PA	Mazagão, AP
		0628	Adjustment of Solimões River waterway from Tabatinga to Manaus	1.412,0 km	Tabatinga, AM	Manaus, AM
		0681	Dredging and beacon installation at Purus River waterway from Boca do Acre to Anori	2.550,0 km	Boca do Acre, AM	Anori, AM
		0682-INT	Adjustment of Juruá River waterway from Cruzeiro do Sul to Juruá	1.115,0 km	Cruzeiro do Sul, AC	Juruá, AM
		1329	Adjustment of Içá River waterway from Santo Antônio do Içá to Amaturá	368,0 km	Santo Antônio do Içá, AM	Amaturá, AM
		1332-INT	Adjustment of Rio Negro waterway from São Gabriel da Cachoeira to Rorainópolis	820,0 km	São Gabriel da Cachoeira, AM	Rorainópolis, RR
		1333-INT	Dredging and beacon installation of Rio Branco and Rio Negro waterways from Boa Vista to Manaus	922,0 km	Boa Vista, RR	Manaus, AM
		2880	Signaling and beacon installation at Amazon River waterway from Manaus to Itacoatiara	206,0 km	Manaus, AM	Itacoatiara, AM
		2882	Adjustment of Marajó waterway from Breves to Almeirim	177,0 km	Breves, PA	Almeirim, PA
			Cargo riverboat	2878	Construction of Bem Querer sluice on Rio Branco waterway	1 un
Port	Port area	2021	Adjustment of warehouses 0, 3 and 4 for passenger terminal at Port of Manaus	1 un	Manaus, AM	Manaus, AM

Table 9 - List of projects of the Amazon Corridor (E4)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2883	Revitalization of Manaus Moderna at Port of Manus	1 un	Manaus, AM	Manaus, AM
		2884	Implementation of VTMS at Port of Manaus	1 un	Manaus, AM	Manaus, AM
	Port construction	2018	Construction of Centro-Amazônico Port in Manaus	1 un	Manaus, AM	Manaus, AM
		2019	Construction of port terminal at Port of Manaus	1 un	Manaus, AM	Manaus, AM
		2020	Construction of CEASA bimodal port terminal at Port of Manaus	1 un	Manaus, AM	Manaus, AM
Road	Road adjustment	2497	Implementation of signs on AP-010 from Macapá to Santana	22,1 km	Macapá, AP	Santana, AP
		2660	Implementation of signs on BR-210 from Caroebe to Caracará	94,6 km	Caroebe, RR	Caracará, RR
		2661	Implementation of signs on BR-401 from Boa Vista to Bonfim	106,6 km	Boa Vista, RR	Bonfim, RR
		2674	Implementation of signs on BR-174 from Rorainópolis to Caracará	244,9 km	Rorainópolis, RR	Caracará, RR
		3780	Implementation of additional lane on BR-174 from Manaus to Presidente Figueiredo	106,0 km	Manaus, AM	Presidente Figueiredo, AM
		3816	Implementation of signs on AP-440 from Santana to Macapá	15,0 km	Santana, AP	Macapá, AP
		3825	Implementation of signs on BR-156 from Porto Grande to Calçoene	307,6 km	Porto Grande, AP	Calçoene, AP
	Road construction	3946	Implementation of signs on BR-174 from Caracará to Boa Vista	173,9 km	Caracará, RR	Boa Vista, RR
		2225	Construction of BR-431 road in Rorainópolis	125,0 km	Rorainópolis, RR	Rorainópolis, RR
		2237	Construction of PA-254 from Faro to Almeirim	433,8 km	Faro, PA	Almeirim, PA
		2815	Implementation of South Ring Road in Manaus	8,3 km	Manaus, AM	Manaus, AM
		3683	Construction of East Ring Road in Manaus	17,6 km	Manaus, AM	Manaus, AM
		3827	Construction of bridge access ramps on BR-156 over Oiapoque River in Oiapoque	1,9 km	Oiapoque, AP	Oiapoque, AP

Table 9 - List of projects of the Amazon Corridor (E4)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Paving of road	0685	Paving of BR-401 from Bonfim to Normandia	71,4 km	Bonfim, RR	Normandia, RR
		0694	Paving of BR-156 from Calçoene to Oiapoque	110,2 km	Calçoene, AP	Oiapoque, AP
		2217	Paving of BR-156 from Laranjal do Jari to Macapá	244,2 km	Laranjal do Jari, AP	Macapá, AP
		2224	Paving of BR-210 road in Caroebe	27,4 km	Caroebe, RR	Caroebe, RR
		2226	Paving of BR-433 road in Pacaraima	56,0 km	Pacaraima, RR	Pacaraima, RR
		2227	Paving of BR-432 from Cacacará to Cantá	174,6 km	Caracará, RR	Cantá, RR
		2241	Paving of PA-419 in Prainha	35,0 km	Prainha, PA	Prainha, PA
		2242	Paving of PA-423 in Monte Alegre	47,5 km	Monte Alegre, PA	Monte Alegre, PA
		2244	Paving of PA-437 in Óbidos	16,0 km	Óbidos, PA	Óbidos, PA
		2245	Paving of PA-439 in Oriximiná	28,0 km	Oriximiná, PA	Oriximiná, PA
		2250	Paving of PA-423 in Almeirim	122,0 km	Almeirim, PA	Almeirim, PA
		2251	Paving of PA-441 from Terra Santa to Faro	21,0 km	Terra Santa, PA	Faro, PA
	Restoration of pavement on road	2458	Restoration of pavement on AM-010 from Manaus to Itacoatiara	252,0 km	Manaus, AM	Itacoatiara, AM
		2602	Restoration of pavement on BR-210 in Macapá	21,1 km	Macapá, AP	Macapá, AP
		2675	Restoration of pavement on BR-174 in Pacaraima	43,7 km	Pacaraima, RR	Pacaraima, RR
3826		Restoration of pavement on BR-156 from Macapá to Porto Grande	79,7 km	Macapá, AP	Porto Grande, AP	
3947		Restoration of pavement on BR-401 in Bonfim	18,2 km	Bonfim, RR	Bonfim, RR	
Terminal	Terminal adjustment	0723	Adjustment of waterway terminal in Macapá	1 un	Macapá, AP	Macapá, AP
		3354	Adjustment of Tabatinga mixed-use waterway terminal	1 un	Tabatinga, AM	Tabatinga, AM
		3356	Expansion and adjustment of Nhamundá mixed-use waterway terminal	1 un	Nhamundá, AM	Nhamundá, AM

Table 9 - List of projects of the Amazon Corridor (E4)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	0337	Construction of mixed-use waterway terminal in Parintins	1 un	Parintins, AM	Parintins, AM
		0697	Construction of mixed-use waterway terminal in Juruti	1 un	Juruti, PA	Juruti, PA
		1827	Construction of waterway cargo terminal in Rorainópolis	1 un	Rorainópolis, RR	Rorainópolis, RR
		1828	Construction of waterway cargo terminal in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR
		2374	Construction of mixed-use waterway terminal in Silves	1 un	Silves, AM	Silves, AM
		2376	Construction of mixed-use waterway terminal in Alvarães	1 un	Alvarães, AM	Alvarães, AM
		2377	Construction of mixed-use waterway terminal in Anamá	1 un	Anamá, AM	Anamá, AM
		2378	Construction of mixed-use waterway terminal in Anori	1 un	Anori, AM	Anori, AM
		2381	Construction of mixed-use waterway terminal in Tefé (Lago)	1 un	Tefé, AM	Tefé, AM
		2393	Construction of mixed-use waterway terminal in Altamira	1 un	Altamira, PA	Altamira, PA
		2394	Construction of mixed-use waterway terminal in Oriximiná	1 un	Oriximiná, PA	Oriximiná, PA
		2395	Construction of mixed-use waterway terminal in Óbidos	1 un	Óbidos, PA	Óbidos, PA
		2407	Construction of mixed-use waterway terminal in Itacoatiara	1 un	Itacoatiara, AM	Itacoatiara, AM
		2408	Construction of mixed-use waterway terminal in Lábrea	1 un	Lábrea, AM	Lábrea, AM
		2423	Construction of mixed-use waterway terminal in São Gabriel da Cachoeira	1 un	São Gabriel da Cachoeira, AM	São Gabriel da Cachoeira, AM
2429	Construction of mixed-use waterway terminal in Maués	1 un	Maués, AM	Maués, AM		

Table 9 - List of projects of the Amazon Corridor (E4)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	2846	Construction of parking lot for cargo vehicles in Manaus Metropolitan Region	1 un	Manaus, AM	Manaus, AM
		3334	Construction of waterway passenger terminal in Almeirim	1 un	Almeirim, PA	Almeirim, PA
		3335	Construction of mixed-use waterway terminal in Prainha	1 un	Prainha, PA	Prainha, PA
		3336	Construction of mixed-use waterway terminal in Faro	1 un	Faro, PA	Faro, PA
		3337	Construction of mixed-use waterway terminal in Terra Santa	1 un	Terra Santa, PA	Terra Santa, PA
		3338	Construction of mixed-use waterway terminal in Curuá	1 un	Curuá, PA	Curuá, PA

### 5.4.2 ESTIMATE OF INVESTMENT IN THE AMAZON CORRIDOR (E4)

Estimates of minimum investment in transport infrastructure required for operational improvement of the Amazon Corridor (E4) are shown in Table 10, according to the respective intervention and works categories.

Table 10 - Minimum Investment - Amazon Corridor (E4)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	16 un	887.797.151,32
	Airport construction	2 un	294.452.339,29
Waterway	Waterway adjustment	7.950,0 km	4.794.648.520,16
	Cargo riverboat	1 un	874.801.673,75
Port	Port area	3 un	468.248.584,13
	Port construction	3 un	1.686.504.351,90
Road	Road adjustment	1.070,7 km	394.964.732,39
	Road construction	586,6 km	3.577.097.757,13
	Paving of road	953,3 km	3.472.124.205,96
	Restoration of pavement on road	414,7 km	1.365.567.208,61
Terminal	Terminal adjustment	3 un	62.990.837,30
	Terminal construction	22 un	440.029.927,06
<b>Total</b>			<b>18.319.227.289,00</b>

## 5.5 CENTRAL-NORTH CORRIDOR (E5)

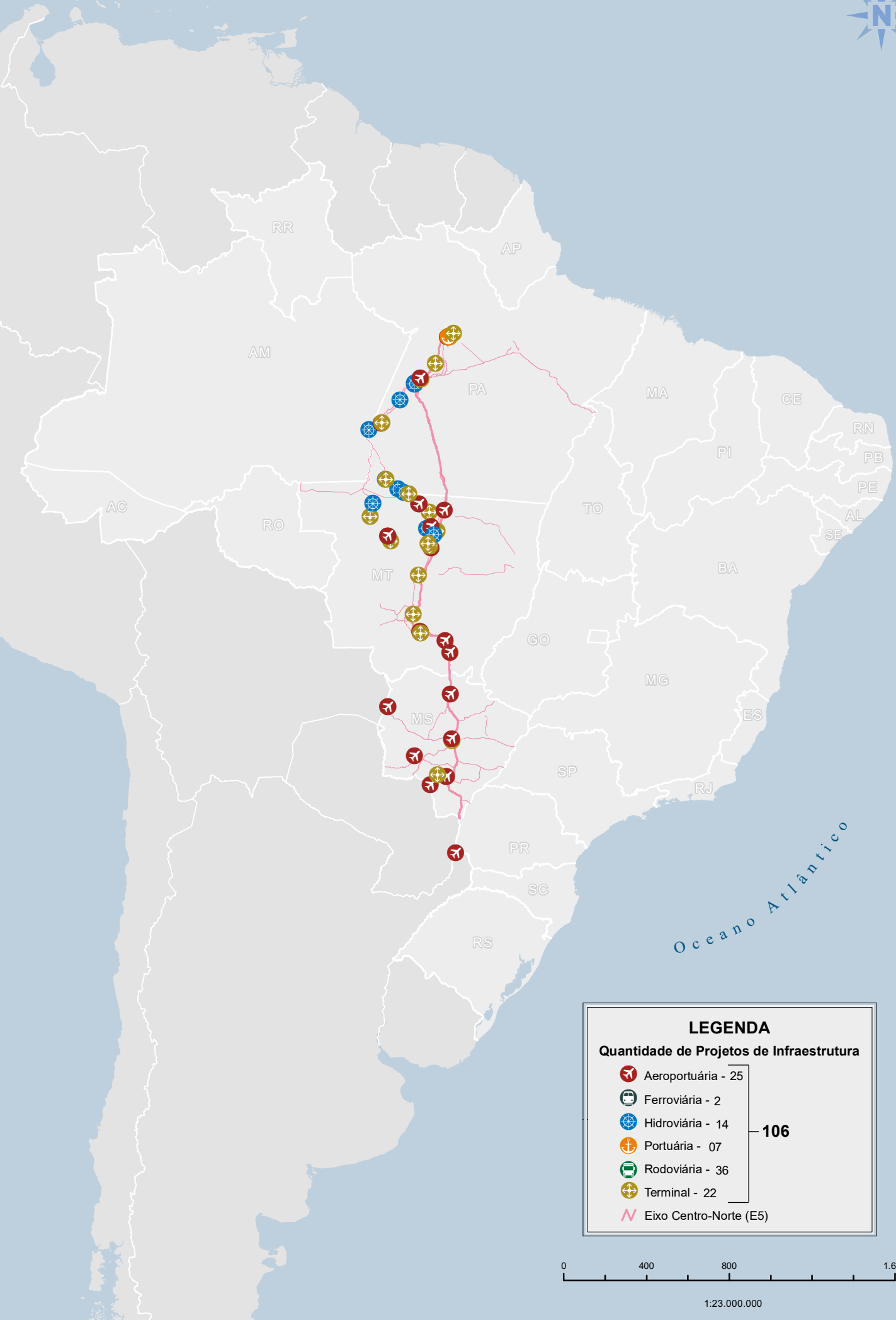
The Central-North Corridor traverses the Central-West and North Regions of the country, with its ends located in the municipalities of Mundo Novo, MS (on the border with Paraná, in the city of Guaíra, PR) and in Santarém, PA, passing through Campo Grande, MS and Cuiabá, MT along the way. It is a corridor with potential for use in the movement of cargo and passengers within the Central-West Region, especially the flow of agricultural products from Mato Grosso via the Port of Santarém, PA.

The corridor begins at the border between Paraná and Mato Grosso do Sul, on the banks of the Paraná River waterway, and follows highway BR-163 through the states of Mato Grosso do Sul, Mato Grosso and Pará until reaching Itaituba, PA. In Itaituba, PA, a section of BR-230 is used to access the Tapajós River waterway, where the corridor continues to Santarém, PA. Noteworthy along its path are the capital of Mato Grosso, which serves as an integration point of the Central-North (E5), North-Southeast (E6) and East-West (E7) Corridors, demonstrating its capacity as a tourism hub, and Santarém, PA, which houses one of the country's main organized ports.

On its route, the Central-North Corridor interconnects with: the North-South Corridor (E3) on the border between Guaíra, PR and Mundo Novo, MS; the Amazon Corridor (E4) in Itacoatiara, AM; the North-Southeast Corridor (E6) on the stretch between Várzea Grande, MT (near Cuiabá, MT) and Rondonópolis, MT; and the East-West Corridor (E7) in the Diamantino, MT stretch near Campo Verde, MT.

The route of the Central-North Corridor and the projects that comprise it are displayed in Figure 12.

Figure 12 - Central-North Corridor (E5)



**LEGENDA**

**Quantidade de Projetos de Infraestrutura**

	Aeroportuária - 25
	Feroviária - 2
	Hidroviária - 14
	Portuária - 07
	Rodoviária - 36
	Terminal - 22
	Eixo Centro-Norte (E5)

**106**

0 400 800 1.600 km

1:23.000.000



### 5.5.1 PROJECTS OF THE CENTRAL-NORTH CORRIDOR (E5)

The primary projects that make up the Central-North Corridor (E5) along its main route are port expansion projects at the Port of Santarém, PA. Following these are the construction of waterway terminal projects along the Tapajós River waterway, for which one project is aimed at adjustment of its navigability - also in Structural Corridor of E5. Of note are the road projects on BR-163, which include adjustment of the road in the state of Mato Grosso and its paving in the state of Pará.

In regards to the complementary links of the Central-North Corridor, noteworthy road projects include the adjustment and duplication of BR-262, the adjustment and restoration of BR-267 and the restoration of BR-060 in Mato Grosso do Sul. In addition, the paving of BR-230 projects in Pará and the construction of BR-242 in Mato Grosso and BR-419 in Mato Grosso do Sul are also noteworthy. Of equal importance are the airport projects, which propose adjustments to 15 airports, including the airports of Alta Floresta, MT, Campo Grande, MS and Várzea Grande, MT (Cuiabá Airport), as well as the construction of four more airports in the states of Mato Grosso and Mato Grosso do Sul.

Expanding further on the complementary infrastructures of this corridor, other projects propose the construction of freight and waterway terminals, as well as parking areas for vehicles in the Cuiabá River Valley Metropolitan Region. In terms of waterway infrastructure, noteworthy projects include those proposing adjustments to the waterways of the Juruena, Teles Pires and Tapajós rivers in Mato Grosso, and the construction of cargo riverboats on these same rivers in the states of Amazonas, Pará, Mato Grosso and Mato Grosso do Sul. Concluding the list of complementary projects proposed for the Central-North Corridor is the construction of the Cuiabá-Santarém railway.

Table 11 presents the projects proposed for the Central-North Corridor.

Table 11 - List of projects of the Central-North Corridor (E5)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0668	Expansion of Campo Grande Airport	1 un	Campo Grande, MS	Campo Grande, MS
		1498	Restoration and expansion of passenger terminal and adjustment of road system at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT
		1523	Expansion of runway system and aircraft yard at Dourados Airport	1 un	Dourados, MS	Dourados, MS
		1526	Implementation of control tower at Maestro Wilson Fonseca Airport in Santarém	1 un	Santarém, PA	Santarém, PA
		1568	Expansion of Ponta Porã Airport	1 un	Ponta Porã, MS	Ponta Porã, MS
		1569	Implementation of air navigation groups at Piloto Osvaldo Marques Dias Airport in Alta Floresta	1 un	Alta Floresta, MT	Alta Floresta, MT
		1570	Expansion of Piloto Osvaldo Marques Dias Airport in Alta Floresta	1 un	Alta Floresta, MT	Alta Floresta, MT
		1579	Improvements at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT
		1582	Expansion of passenger terminal at Juara Sul Airport in Juara	1 un	Juara, MT	Juara, MT
		1583	Expansion of runway and aircraft yard system at Juara Sul Airport in Juara	1 un	Juara, MT	Juara, MT
		1600	Implementation of air navigation groups at Itaituba Airport	1 un	Itaituba, PA	Itaituba, PA
		1601	Implementation of air navigation groups at Jacareacanga Airport	1 un	Jacareacanga, PA	Jacareacanga, PA
		2943	Implementation of runway, aircraft yard and operations fence at Coxim Airport	1 un	Coxim, MS	Coxim, MS
		2944	Restoration of runway at Bonito Airport	1 un	Bonito, MS	Bonito, MS
		2945	Restoration of aircraft yard at Presidente João Batista Figueiredo Airport in Sinop	1 un	Sinop, MT	Sinop, MT

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	2972	Repair of runway at Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		3345	Repair of runway at Corumbá Airport	1 un	Corumbá, MS	Corumbá, MS
		3353	Acquisition of fire engines for Corumbá Airport	1 un	Corumbá, MS	Corumbá, MS
		3355	Expansion of Rondonópolis Airport	1 un	Rondonópolis, MT	Rondonópolis, MT
		3365	Repair of runway at Maestro Wilson Fonseca Airport in Santarém	1 un	Santarém, PA	Santarém, PA
		3386	Repair of runway at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT
	Airport construction	1578	Construction of airport in Colíder	1 un	Colíder, MT	Colíder, MT
		1581	Construction of Jaciara Airport	1 un	Jaciara, MT	Jaciara, MT
		1585	Construction of passenger terminal at Orlando Villas Boas Regional Airport in Matupá	1 un	Matupá, MT	Matupá, MT
		3344	Construction of passenger terminal and expansion of aircraft yard at Dourados Airport	1 un	Dourados, MS	Dourados, MS
Rail	Railway construction	1458	Construction of Cuiabá-Santarém railway from Cuiabá to Garantã do Norte	822,2 km	Cuiabá, MT	Garantã do Norte, MT
		1459	Construction of Cuiabá-Santarém railway from Novo Progresso to Santarém	977,8 km	Novo Progresso, PA	Santarém, PA
Waterway	Waterway adjustment	1320-INT	Adjustment of Teles Pires and Tapajós rivers waterways from Apiacás to Itaituba	680,0 km	Apiacás, MT	Itaituba, PA
		1343	Adjustment of Tapajós River waterway from Itaituba to Santarém	290,0 km	Itaituba, PA	Santarém, PA
		2902-INT	Adjustment of Waterway of Teles Pires River from Itaúba to Apiacás	583,0 km	Itaúba, MT	Apiacás, MT
		2903-INT	Adjustment of Juruena River waterway from Juruena to Apuí	443,0 km	Juruena, MT	Apuí, AM

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	1263-INT	Construction of Cachoeira Rasteira sluice on Teles Pires River waterway	1 un	Apiacás, MT	Jacareacanga, PA
		1264	Construction of Colíder sluice on Teles Pires River waterway	1 un	Itaúba, MT	Nova Canaã do Norte, MT
		1265-INT	Construction of São Manoel sluice on Teles Pires River waterway	1 un	Paranaíta, MT	Jacareacanga, PA
		1266	Construction of Sinop sluice on Teles Pires River waterway	1 un	Itaúba, MT	Cláudia, MT
		1267-INT	Construction of Teles Pires sluice on Teles Pires River waterway	1 un	Paranaíta, MT	Jacareacanga, PA
		1304-INT	Construction of Chacorão sluice on Tapajós River waterway	1 un	Maués, AM	Jacareacanga, PA
		1305	Construction of Jatobá sluice on Tapajós River Waterway	1 un	Itaituba, PA	Itaituba, PA
		1306	Construction of São Luiz do Tapajós sluice on Tapajós River waterway	1 un	Itaituba, PA	Itaituba, PA
		1313	Construction of sluice at Cachoeira de Meia Carga on Juruena River waterway	1 un	Cotriguaçu, MT	Nova Bandeirantes, MT
		3068	Construction of sluice downstream of São Luiz do Tapajós HPP on Tapajós River waterway	1 un	Itaituba, PA	Trairão, PA
Port	Land access to port	2094	Adjustment of road access to Port of Santarém via BR-163	9,0 km	Santarém, PA	Santarém, PA
	Port area	2089	Expansion of the Multiple Use Terminal 1 and adjustment of its pier at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2980	Implementation of VTMS at Port of Santarém	1 un	Santarém, PA	Santarém, PA
	Port construction	2090	Construction of the Multiple Use Terminal 2 at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2091	Construction of Biomass Dry Bulk Cargo Terminal II at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2092	Construction of fertilizer terminal at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2978	Construction of Biomass Dry Bulk Cargo Terminal III at Port of Santarém	1 un	Santarém, PA	Santarém, PA

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2469	Implementation of signs on MS-134 in Nova Andradina	56,7 km	Nova Andradina, MS	Nova Andradina, MS
		2547	Implementation of signs on BR-262 in Campo Grande	10,8 km	Campo Grande, MS	Campo Grande, MS
		2548	Implementation of signs on BR-463 from Dourados to Ponta Porã	115,1 km	Dourados, MS	Ponta Porã, MS
		2637	Implementation of signs on BR-376 from Dourados to Nova Andradina	176,6 km	Dourados, MS	Nova Andradina, MS
		3923	Implementation of signs on MT-208 from Carlinda to Alta Floresta	47,1 km	Carlinda, MT	Alta Floresta, MT
		3929	Implementation of signs on BR-262 from Campo Grande to Corumbá	414,4 km	Campo Grande, MS	Corumbá, MS
		3939	Implementation of signs on MST-487 / BR-487 from Itaquiraí to Naviraí	52,5 km	Itaquiraí, MS	Naviraí, MS
	Road construction	0175	Construction of BR-242 from Ribeirão Cascalheira to Nova Ubiratã	439,0 km	Ribeirão Cascalheira, MT	Nova Ubiratã, MT
		2239	Construction of PA-370 from Santarém to Medicilândia	191,0 km	Santarém, PA	Medicilândia, PA
		2262	Construction of BR-419 from Rio Verde de Mato Grosso to Anastácio	232,7 km	Rio Verde de Mato Grosso, MS	Anastácio, MS
		3844	Construction of BR-230 road in Itaituba	8,3 km	Itaituba, PA	Itaituba, PA
		3895	Construction of Cuiabá Bypass on BR-163	30,0 km	Cuiabá, MT	Várzea Grande, MT
		3920	Construction of Campo Grande Ring Road on BR-060	24,0 km	Campo Grande, MS	Campo Grande, MS
		Road duplication	0715	Duplication of BR-163 from Rondonópolis to Diamantino	365,8 km	Rondonópolis, MT
	2273		Duplication of BR-267 from Bataguassu to Nova Alvorada do Sul	242,9 km	Bataguassu, MS	Nova Alvorada do Sul, MS
	2333		Duplication of BR-262 from Três Lagoas to Campo Grande	316,9 km	Três Lagoas, MS	Campo Grande, MS
	Paving of road	0617	Paving of BR-163 from Novo Progresso to Rurópolis	789,0 km	Novo Progresso, PA	Rurópolis, PA

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Paving of road	0634	Paving of BR-230 from Palestina do Pará to Rurópolis	957,8 km	Palestina do Pará, PA	Rurópolis, PA
		0659	Paving of MT-206 from Paranaíta to Colniza	662,5 km	Paranaíta, MT	Colniza, MT
		0662	Paving of MT-247 from Lambari d'Oeste to Barra do Bugres	92,4 km	Lambari d'Oeste, MT	Barra do Bugres, MT
		0687	Paving of BR-230 from Itaituba to Jacareacanga	437,2 km	Itaituba, PA	Jacareacanga, PA
		2236	Paving of PA-167 in Senador José Porfírio	84,4 km	Senador José Porfírio, PA	Senador José Porfírio, PA
		2243	Paving of PA-433 from Belterra to Santarém	35,0 km	Belterra, PA	Santarém, PA
		2265	Paving of MS-324 in Água Clara	137,0 km	Água Clara, MS	Água Clara, MS
		2268	Paving of MT-322 from Bom Jesus do Araguaia to Peixoto de Azevedo	396,0 km	Bom Jesus do Araguaia, MT	Peixoto de Azevedo, MT
	2647	Paving of BR-163 from Rurópolis to Belterra	84,0 km	Rurópolis, PA	Belterra, PA	
	Restoration of pavement on road	2551	Restoration of pavement on BR-163 from Sinop to Garantã do Norte	269,8 km	Sinop, MT	Garantã do Norte, MT
		2636	Restoration of pavement on BR-267 from Rio Brilhante to Guia Lopes da Laguna	179,7 km	Rio Brilhante, MS	Guia Lopes da Laguna, MS
		2684	Restoration of pavement on BR-060 from Campo Grande to Bela Vista	324,2 km	Campo Grande, MS	Bela Vista, MS
		2685	Restoration of pavement on BR-060 from Chapadão do Sul to Bandeirantes	230,6 km	Chapadão do Sul, MS	Bandeirantes, MS
		3843	Restoration of pavement on BR-230 in Itaituba	32,3 km	Itaituba, PA	Itaituba, PA
		3924	Restoration of pavement on MT-240 and MT-343 from Diamantino to Barra do Bugres	118,7 km	Diamantino, MT	Barra do Bugres, MT
		3926	Restoration of pavement on MT-246, MT-343 and MT-358 from Jangada to Campo Novo do Parecis	229,2 km	Jangada, MT	Campo Novo do Parecis, MT
3927		Restoration of pavement on MT-320 from Nova Santa Helena to Carlinda	153,8 km	Nova Santa Helena, MT	Carlinda, MT	

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3930	Restoration of pavement on BR-267 from Jardim to Porto Murtinho	202,5 km	Jardim, MS	Porto Murtinho, MS
		3948	Restoration of pavement on PA-415 from Altamira to Vitória do Xingu	42,9 km	Altamira, PA	Vitória do Xingu, PA
Terminal	Terminal construction	0400	Construction of intermodal cargo terminal in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
		0413	Construction of waterway cargo terminal in Cuiabá	1 un	Cuiabá, MT	Cuiabá, MT
		1766	Construction of rail freight terminal in Lucas do Rio Verde	1 un	Lucas do Rio Verde, MT	Lucas do Rio Verde, MT
		1767	Construction of waterway cargo terminal in Juara	1 un	Juara, MT	Juara, MT
		1768	Construction of waterway cargo terminal in Juruena	1 un	Juruena, MT	Juruena, MT
		1769	Construction of biomass dry bulk cargo terminals at Port of Miritituba in Itaituba	4 un	Itaituba, PA	Itaituba, PA
		1777	Construction of logistics platform in Cuiabá	1 un	Cuiabá, MT	Cuiabá, MT
		1778	Construction of logistics platform in Dourados	1 un	Dourados, MS	Dourados, MS
		1781	Construction of rail freight terminal in Sinop	1 un	Sinop, MT	Sinop, MT
		1782	Construction of intermodal cargo terminal in Santarém	1 un	Santarém, PA	Santarém, PA
		1795	Construction of waterway cargo terminal in Cachoeira Rasteira in Apicás	1 un	Apicás, MT	Apicás, MT
		1796	Construction of waterway cargo terminal in Porto dos Gaúchos	1 un	Porto dos Gaúchos, MT	Porto dos Gaúchos, MT
		1829	Construction of waterway cargo terminal in Ipiranga do Norte	1 un	Ipiranga do Norte, MT	Ipiranga do Norte, MT
		1830	Construction of waterway cargo terminal in Paranaíta	1 un	Paranaíta, MT	Paranaíta, MT
		1831	Construction of waterway cargo terminal in Jacareacanga	1 un	Jacareacanga, PA	Jacareacanga, PA

Table 11 - List of projects of the Central-North Corridor (E5)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1832	Construction of waterway cargo terminal in Rosário Oeste	1 un	Rosário Oeste, MT	Rosário Oeste, MT
		1845	Construction of waterway cargo terminal in Itaúba	1 un	Itaúba, MT	Itaúba, MT
		1878	Construction of mixed waterway terminal in Aveiro	1 un	Aveiro, PA	Aveiro, PA
		1879	Construction of waterway cargo terminal in Colíder	1 un	Colíder, MT	Colíder, MT
		2437	Construction of mixed waterway terminal in Santarém	1 un	Santarém, PA	Santarém, PA
		2842	Construction of parking lot for cargo vehicles in Cuiabá River Valley Metropolitan Region	1 un	Cuiabá, MT	Cuiabá, MT
		3339	Construction of Santana do Tapará waterway passenger terminal in Santarém	1 un	Santarém, PA	Santarém, PA

### 5.5.2 ESTIMATE OF INVESTMENT IN THE CENTRAL-NORTH CORRIDOR(E5)

Estimates of minimum investment in transport infrastructure required for operational improvement of the Central-North Corridor are shown in Table 12, according to the respective intervention and Works categories.



Table 12 - Minimum Investment - Central-North Corridor (E5)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	21 un	569.420.226,71
	Airport construction	4 un	218.694.137,90
Rail	Railway construction	1.800,0 km	17.555.337.015,09
Waterway	Waterway adjustment	1.996,0 km	4.448.291.090,84
	Cargo riverboat	10 un	11.010.484.679,23
Port	Land access to port	9,0 km	45.561.160,80
	Port area	2 un	181.990.930,03
	Port construction	4 un	938.590.613,75
Road	Road adjustment	873,2 km	23.552.500,10
	Road construction	925,0 km	3.430.487.328,95
	Road duplication	925,6 km	7.218.343.217,78
	Paving of road	3.675,3 km	11.504.648.667,12
	Restoration of pavement on road	1.783,7 km	5.873.552.519,88
Terminal	Terminal construction	25 un	1.655.803.706,06
<b>Total</b>			<b>64.674.757.794,24</b>

## 5.6 NORTH-SOUTHEAST CORRIDOR (E6)

The corridor begins in Itacoatiara, AM, at the meeting of the Amazon and Madeira river waterways, and continues along the Madeira River waterway to Porto Velho, RO. From Porto Velho, RO, it follows highways BR-364, BR-174 and BR-070 through Cuiabá, MT to Alto Araguaia, MT. In Alto Araguaia, MT, the corridor continues by rail along sections of the Rumo Malha Norte (RMN) network, the Rumo Malha Paulista (RMP) network and the MRS Logística (MRS) network through to the city of São Paulo, SP, until reaching Santos, SP.

The North-Southeast Corridor serves several important commodity flows, in particular agricultural commodities, among which the most notable are: corn, soybeans and bran from the Central-West Region destined for the Port of Santos, SP or Itacoatiara, AM (via the Madeira River waterway); sugar and sugar derivatives (produced in inland São Paulo) also destined for the Port of Santos; and movement of fuels and other chemical or agrochemical products from São Paulo, destined for the states of the Center-West Region.

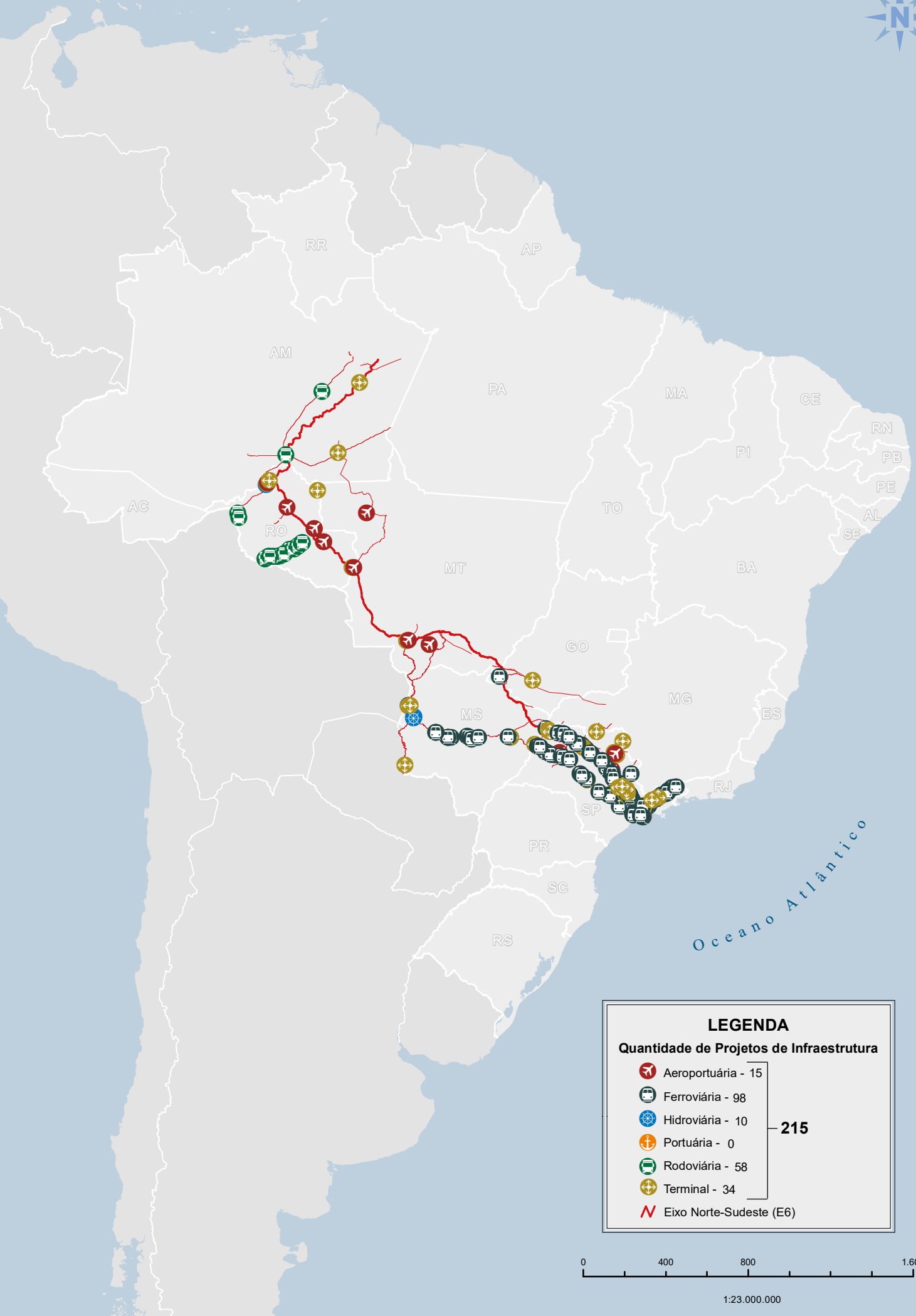
On its route, the North-Southeast Corridor (E6) interconnects with: the Northeast-South (E1) and Coastal (E2) Corridors in the city of São Paulo, SP; the North-South Corridor (E3) on the border between the states of Mato Grosso do Sul and São Paulo (cities of Aparecida do

Taboado, MS and Rubinéia, SP); the Amazon Corridor (E4) in Itacoatiara, AM; the Central-North Corridor (E5) in the section between Várzea Grande, MT and Rondonópolis, MT; the East-West Corridor (E7) in the sections between Vilhena, RO and Comodoro, MT and between Várzea Grande, MT and the nearby municipality of Campo Verde, MT; and the Cabotage Corridor (E9), through access to the Port of Santos, SP.

The North-Southeast Corridor and the projects that comprise it are displayed in Figure 13.

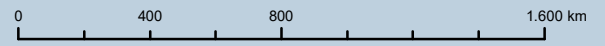


Figure 13 - North-Southeast Corridor (E6)



LEGENDA	
<b>Quantidade de Projetos de Infraestrutura</b>	
	Aeroportuária - 15
	Ferroviária - 98
	Hidroviária - 10
	Portuária - 0
	Rodoviária - 58
	Terminal - 34
	Eixo Norte-Sudeste (E6)

**215**



1:23.000.000

### 5.6.1 PROJECTS OF THE NORTH-SOUTHEAST CORRIDOR (E6)

Among the projects proposed for the North-Southeast Corridor route are the restoration projects of the Santos-Cuiabá railway (in São Paulo, Mato Grosso do Sul and Mato Grosso) for the flow of agricultural commodities from the Central-West Region towards the Port of Santos, SP. In the state of São Paulo, several interventions for the removal of right of way intrusions and level crossings are also proposed along the Structural Corridor.

Noteworthy along the corridor’s route are waterway cargo terminal projects - for handling agricultural dry bulk cargo - and container terminal projects in Porto Velho, RO, along with logistics platforms for the integration of road and rail in general cargo movement in the state of São Paulo. It also includes the duplication of highways BR-364 (in Rondônia and Mato Grosso) and BR-174 (in Mato Grosso) and rock removal in the Madeira River waterway (in Rondônia).

In regards to complementary infrastructures of the North-Southeast Corridor’s main route, notable projects include the construction of the Uberlândia-Alto Araguaia railway, the São Paulo Rail Bypass and the Inter-city Train from Sorocaba to Pindamonhangaba, along with restoration of the Corumbá-Santos railway. As for road projects, notable projects include the paving of BR-230 and BR-319 roads in Amazonas and BR-174 road in Mato Grosso and Rondônia, as well as the duplication of BR-060 and BR-364 in Goiás.

Noteworthy construction projects include construction of the Santo Antônio sluice on the Madeira River waterway in Rondônia - making it possible to connect it to the waterways of the Guaporé and Mamoré rivers - and the construction of a waterway cargo terminal in Paulínia, SP.

Table 13 presents the projects proposed for the North-Southeast Corridor.





Table 13 - List of projects of the North-Southeast Corridor (E6)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Airport	Airport adjustment	1536	Expansion of runway system and aircraft yard at Ji-Paraná Airport	1 un	Ji-Paraná, RO	Ji-Paraná, RO		
		1537	Expansion of passenger terminal and runway system at Dario Guarita State Airport in Araçatuba	1 un	Araçatuba, SP	Araçatuba, SP		
		1641	Expansion of cargo terminal at Governador Jorge Teixeira de Oliveira Airport in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO		
		1642	Expansion of passenger terminal and aircraft yard at Governador Jorge Teixeira de Oliveira Airport in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO		
		1643	Implementation of air navigation groups at Vilhena Airport	1 un	Vilhena, RO	Vilhena, RO		
		2947	Restoration of passenger terminal at Cáceres Airport	1 un	Cáceres, MT	Cáceres, MT		
		2987	Expansion of runway at Ariquemes Airport	1 un	Ariquemes, RO	Ariquemes, RO		
		2992	Implementation of air navigation aids at Cacoal Airport	1 un	Cacoal, RO	Cacoal, RO		
		2993	Expansion of passenger terminal at Cacoal Airport	1 un	Cacoal, RO	Cacoal, RO		
		3348	Expansion and restoration of runway at Mario Pereira Lopes State Airport in São Carlos	1 un	São Carlos, SP	São Carlos, SP		
		3349	Expansion of passenger terminal and runway and aircraft yard system at Leite Lopes Airport in Ribeirão Preto	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP		
		Airport construction	Airport construction	0621	Construction of Guarujá Airport	1 un	Guarujá, SP	Guarujá, SP
				1572	Construction of airport in Aripuanã	1 un	Aripuanã, MT	Aripuanã, MT
				1589	Construction of Poconé Airport	1 un	Poconé, MT	Poconé, MT
2990	Terminal construction passenger terminal at Ji-Paraná Airport			1 un	Ji-Paraná, RO	Ji-Paraná, RO		

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Railway construction	0011	Construction of North section of São Paulo Rail Bypass	53,0 km	São Paulo, SP	Itaquaquecetuba, SP
		0036	Construction of South section of São Paulo Rail Bypass	55,0 km	São Paulo, SP	Rio Grande da Serra, SP
		1380	Construction of rail link from Rondonópolis to Cuiabá	220,0 km	Rondonópolis, MT	Cuiabá, MT
		1478	Construction of Uberlândia-Alto Araguaia rail link from Uberlândia to Cachoeira Dourada	178,3 km	Uberlândia, MG	Cachoeira Dourada, MG
		1479	Construction of Uberlândia-Alto Araguaia rail link from Cachoeira Dourada to Santa Rita do Araguaia	521,7 km	Cachoeira Dourada, GO	Santa Rita do Araguaia, GO
		1735	Construction of branch line from Mirassol to Cedral	44,0 km	Mirassol, SP	Cedral, SP
		1736	Construction of Aguai Rail Bypass	5,6 km	Aguai, SP	Aguai, SP
		3971	Construction of Inter-city Train from Pindamonhangaba to Sorocaba	264,6 km	Pindamonhangaba, SP	Sorocaba, SP
	Railway duplication	0046	Duplication of rail route from Rio Grande da Serra to Jundiá	97,9 km	Rio Grande da Serra, SP	Jundiá, SP
		3061	Duplication of rail route from Itaquaquecetuba to Suzano	12,1 km	Itaquaquecetuba, SP	Suzano, SP
	Elimination of bottlenecks	1687	Removal of right of way intrusion in Guarujá	1 un	Guarujá, SP	Guarujá, SP
		1750	Removal of level crossing in Aparecida do Taboado	1 un	Aparecida do Taboado, MS	Aparecida do Taboado, MS
		1752	Removal of level crossing in Alto Taquari	1 un	Alto Taquari, MT	Alto Taquari, MT
		3121	Removal of right of way intrusions in Corumbá	2 un	Corumbá, MS	Corumbá, MS
		3122	Removal of right of way intrusions in Miranda	3 un	Miranda, MS	Miranda, MS
		3123	Removal of right of way intrusions in Aquidauana	6 un	Aquidauana, MS	Aquidauana, MS
		3124	Removal of right of way intrusion in Terenos	1 un	Terenos, MS	Terenos, MS

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3125	Removal of right of way intrusion in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
		3126	Removal of right of way intrusion in Queluz	1 un	Queluz, SP	Queluz, SP
		3127	Removal of right of way intrusion in Lavrinhas	1 un	Lavrinhas, SP	Lavrinhas, SP
		3128	Removal of right of way intrusion in Cruzeiro	1 un	Cruzeiro, SP	Cruzeiro, SP
		3129	Removal of right of way intrusions in Lorena	3 un	Lorena, SP	Lorena, SP
		3130	Removal of right of way intrusions in Guaratinguetá	5 un	Guaratinguetá, SP	Guaratinguetá, SP
		3131	Removal of right of way intrusions in Aparecida	2 un	Aparecida, SP	Aparecida, SP
		3132	Removal of right of way intrusion in Taubaté	1 un	Taubaté, SP	Taubaté, SP
		3133	Removal of right of way intrusion in Itaquaquecetuba	1 un	Itaquaquecetuba, SP	Itaquaquecetuba, SP
		3134	Removal of right of way intrusion in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3138	Removal of right of way intrusions in Castilho	3 un	Castilho, SP	Castilho, SP
		3139	Removal of right of way intrusions in Andradina	2 un	Andradina, SP	Andradina, SP
		3140	Removal of right of way intrusions in Mirandópolis	2 un	Mirandópolis, SP	Mirandópolis, SP
		3141	Removal of right of way intrusions in Valparaíso	4 un	Valparaíso, SP	Valparaíso, SP
		3142	Removal of right of way intrusion in Guararapes	1 un	Guararapes, SP	Guararapes, SP
		3143	Removal of right of way intrusion in Birigui	1 un	Birigui, SP	Birigui, SP
		3144	Removal of right of way intrusion in Coroados	1 un	Coroados, SP	Coroados, SP
3145	Removal of right of way intrusions in Avanhandava	2 un	Avanhandava, SP	Avanhandava, SP		
3146	Removal of right of way intrusion in Presidente Alves	1 un	Presidente Alves, SP	Presidente Alves, SP		
3147	Removal of right of way intrusion in Avaí	1 un	Avaí, SP	Avaí, SP		

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3148	Removal of right of way intrusion in Bauru	1 un	Bauru, SP	Bauru, SP
		3149	Removal of right of way intrusion in Botucatu	1 un	Botucatu, SP	Botucatu, SP
		3150	Removal of right of way intrusion in Conchas	1 un	Conchas, SP	Conchas, SP
		3151	Removal of right of way intrusion in Pereiras	1 un	Pereiras, SP	Pereiras, SP
		3152	Removal of right of way intrusions in Sorocaba	2 un	Sorocaba, SP	Sorocaba, SP
		3153	Removal of right of way intrusions in Embu-Guaçu	2 un	Embu-Guaçu, SP	Embu-Guaçu, SP
		3154	Removal of right of way intrusions in Cubatão	4 un	Cubatão, SP	Cubatão, SP
		3155	Removal of right of way intrusion in Aguaí	1 un	Aguaí, SP	Aguaí, SP
		3156	Removal of right of way intrusions in Campinas	11 un	Campinas, SP	Campinas, SP
		3157	Removal of right of way intrusion in Votuporanga	1 un	Votuporanga, SP	Votuporanga, SP
		3158	Removal of right of way intrusions in Bálamo	2 un	Bálamo, SP	Bálamo, SP
		3159	Removal of right of way intrusions in São José do Rio Preto	6 un	São José do Rio Preto, SP	São José do Rio Preto, SP
		3160	Removal of right of way intrusion in Cedral	1 un	Cedral, SP	Cedral, SP
		3161	Removal of right of way intrusion in Uchoa	1 un	Uchoa, SP	Uchoa, SP
		3162	Removal of right of way intrusion in Catanduva	1 un	Catanduva, SP	Catanduva, SP
		3163	Removal of right of way intrusion in Santa Ernestina	1 un	Santa Ernestina, SP	Santa Ernestina, SP
		3164	Removal of right of way intrusion in Araraquara	1 un	Araraquara, SP	Araraquara, SP
		3165	Removal of right of way intrusion in Ibaté	1 un	Ibaté, SP	Ibaté, SP
3166	Removal of right of way intrusions in São Carlos	5 un	São Carlos, SP	São Carlos, SP		
3167	Removal of right of way intrusion in Santa Gertrudes	1 un	Santa Gertrudes, SP	Santa Gertrudes, SP		
3168	Removal of right of way intrusion in Cordeirópolis	1 un	Cordeirópolis, SP	Cordeirópolis, SP		



Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3169	Removal of right of way intrusion in Americana	1 un	Americana, SP	Americana, SP
		3170	Removal of right of way intrusion in Nova Odessa	1 un	Nova Odessa, SP	Nova Odessa, SP
		3171	Removal of right of way intrusions in Sumaré	2 un	Sumaré, SP	Sumaré, SP
		3172	Removal of right of way intrusion in Hortolândia	1 un	Hortolândia, SP	Hortolândia, SP
		3173	Removal of right of way intrusions in Valinhos	2 un	Valinhos, SP	Valinhos, SP
		3174	Removal of right of way intrusions in Vinhedo	2 un	Vinhedo, SP	Vinhedo, SP
		3175	Removal of right of way intrusions in Louveira	2 un	Louveira, SP	Louveira, SP
		3176	Removal of right of way intrusions in Jundiaí	3 un	Jundiaí, SP	Jundiaí, SP
		3225	Removal of level crossing in Corumbá	1 un	Corumbá, MS	Corumbá, MS
		3226	Removal of level crossings in Campo Grande	2 un	Campo Grande, MS	Campo Grande, MS
		3227	Removal of level crossing in Ribas do Rio Pardo	1 un	Ribas do Rio Pardo, MS	Ribas do Rio Pardo, MS
		3228	Removal of level crossing in Água Clara	1 un	Água Clara, MS	Água Clara, MS
		3300	Removal of level crossing in Itaquaquetuba	1 un	Itaquaquetuba, SP	Itaquaquetuba, SP
		3301	Removal of level crossings in Mogi das Cruzes	4 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3302	Removal of level crossing in Guararema	1 un	Guararema, SP	Guararema, SP
		3303	Removal of level crossings in Caçapava	3 un	Caçapava, SP	Caçapava, SP
		3304	Removal of level crossings in Pindamonhangaba	3 un	Pindamonhangaba, SP	Pindamonhangaba, SP
		3305	Removal of level crossing in Queluz	1 un	Queluz, SP	Queluz, SP
		3306	Removal of level crossing in Jales	1 un	Jales, SP	Jales, SP
		3307	Removal of level crossings in Fernandópolis	2 un	Fernandópolis, SP	Fernandópolis, SP

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3308	Removal of level crossing in Bálamo	1 un	Bálamo, SP	Bálamo, SP
		3309	Removal of level crossings in Catanduva	2 un	Catanduva, SP	Catanduva, SP
		3310	Removal of level crossing in Pindorama	1 un	Pindorama, SP	Pindorama, SP
		3311	Removal of level crossing in Santa Ernestina	1 un	Santa Ernestina, SP	Santa Ernestina, SP
		3312	Removal of level crossings in São Carlos	2 un	São Carlos, SP	São Carlos, SP
		3313	Removal of level crossing in Itirapina	1 un	Itirapina, SP	Itirapina, SP
		3315	Removal of level crossing in Americana	1 un	Americana, SP	Americana, SP
		3317	Removal of level crossing in Hortolândia	1 un	Hortolândia, SP	Hortolândia, SP
		3318	Removal of level crossing in Valinhos	1 un	Valinhos, SP	Valinhos, SP
		3319	Removal of level crossing in Louveira	1 un	Louveira, SP	Louveira, SP
		3320	Removal of level crossing in Bauru	1 un	Bauru, SP	Bauru, SP
		3322	Removal of level crossing in Laranjal Paulista	1 un	Laranjal Paulista, SP	Laranjal Paulista, SP
		3323	Removal of level crossings in Embu-Guaçu	3 un	Embu-Guaçu, SP	Embu-Guaçu, SP
		3324	Removal of level crossings in Cubatão	5 un	Cubatão, SP	Cubatão, SP
		3379	Removal of level crossing at Praça Sacadura Cabral in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		1435	Restoration of Santos-Cuiabá railway from Santos to Rubinéia	856,6 km	Santos, SP	Rubinéia, SP
		1436	Restoration of Santos-Cuiabá railway from Aparecida do Taboado to Costa Rica	412,7 km	Aparecida do Taboado, MS	Costa Rica, MS
		1437	Restoration of Santos-Cuiabá railway from Alto Taquari to Alto Araguaia	150,7 km	Alto Taquari, MT	Alto Araguaia, MT
		1438	Restoration of railway Corumbá-Santos railway from Corumbá to Três Lagoas	633,0 km	Corumbá, MS	Três Lagoas, MS
1439	Restoration of Corumbá-Santos railway from Castilho to Santos	642,0 km	Castilho, SP	Santos, SP		

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	0217-INT	Signaling and beacon installation at Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		1319-INT	Adjustment of Cuiabá waterway from Cuiabá to Corumbá	300,0 km	Cuiabá, MT	Corumbá, MS
		1323-INT	Dredging of Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		1686-INT	Dredging of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS
		2875-INT	Rock removal at Madeira River waterway from Porto Velho to Manicoré	603,0 km	Porto Velho, RO	Manicoré, AM
		2918	Signaling of Paraguay River waterway from Corumbá to Porto Murtinho	590,0 km	Corumbá, MS	Porto Murtinho, MS
		2919-INT	Signaling of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS
		2922	Dredging of Paraguay River waterway from Corumbá to Porto Murtinho	590,0 km	Corumbá, MS	Porto Murtinho, MS
		2923	Widening of spans on Nossa Senhora do Pantanal and Eurico Gaspar Dutra bridges on Paraguay River waterway	2 un	Corumbá, MS	Corumbá, MS
			Cargo riverboat	0719	Construction of Santo Antônio sluice on Madeira River waterway	1 un
Road	Road adjustment	2229	Adjustment of crossing on BR-364 in Porto Velho	10,4 km	Porto Velho, RO	Porto Velho, RO
		2470	Implementation of signs on MS-306 from Chapadão do Sul to Cassilândia	104,3 km	Chapadão do Sul, MS	Cassilândia, MS
		2509	Implementation of signs on MS-240 and MS-377 from Paranaíba to Água Clara	208,2 km	Paranaíba, MS	Água Clara, MS
		3625	Adjustment of crossing on BR-153 in São José do Rio Preto	17,8 km	São José do Rio Preto, SP	São José do Rio Preto, SP
		3628	Implementation of signs on SP-461/BR-154 and SP-461 roads from Nhandeara to Birigui	78,9 km	Nhandeara, SP	Birigui, SP

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3630	Implementation of signs on SP-310/BR-262 road from Nhandeara to Auriflama	46,3 km	Nhandeara, SP	Auriflama, SP
		3632	Implementation of additional lane on SP-310/BR-456 road from Nhandeara to Mirassol	40,0 km	Nhandeara, SP	Mirassol, SP
		3652	Implementation of signs on SP-425 and SP-425/BR- 267 road from José Bonifácio to Parapuã	154,6 km	José Bonifácio, SP	Parapuã, SP
		3667	Implementation of signs on SP-304 from Santa Bárbara d'Oeste to Piracicaba	17,5 km	Santa Bárbara d'Oeste, SP	Piracicaba, SP
		3668	Implementation of signs on SP-320 from Mirassol to Rubinéia	185,7 km	Mirassol, SP	Rubinéia, SP
		3672	Implementation of signs on SP-463 from Clementina to Bilac	21,3 km	Clementina, SP	Bilac, SP
		3675	Implementation of signs on SP-463 from Jales to Ouroeste	43,8 km	Jales, SP	Ouroeste, SP
		3676	Implementation of signs on SP-595 from Ilha Solteira to Três Fronteiras	57,0 km	Ilha Solteira, SP	Três Fronteiras, SP
		3789	Implementation of signs on MG-427 from Uberaba to Planura	104,3 km	Uberaba, MG	Planura, MG
		3957	Construction of bridges on BR-429 in the state of Rondônia	1,0 km	Alvorada d'Oeste, RO	Costa Marques, RO
		3960	Construction of bridges on BR-425 in the state of Rondônia	0,2 km	Nova Mamoré, RO	Nova Mamoré, RO
		3961	Construction of bridge on BR-319 over the Igapó-Açu River from Beruri to Manicoré	0,4 km	Beruri, AM	Manicoré, AM
		3962	Adjustment of BR-364 in Porto Velho	60,0 km	Porto Velho, RO	Porto Velho, RO
	3963	Construction of bridge on BR-230 over Madeira River in Humaitá	1,2 km	Humaitá, AM	Humaitá, AM	
	Road construction	2222	Construction of Porto Velho North Bypass on BR-319	32,9 km	Porto Velho, RO	Porto Velho, RO
		2223	Construction of Porto Velho South Bypass on BR-364	12,0 km	Porto Velho, RO	Porto Velho, RO

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road construction	2230	Construction of overpasscrossing on BR-364 road in Presidente Médici	7,0 km	Presidente Médici, RO	Presidente Médici, RO	
		2231	Construction of crossing on BR-364 road in Ouro Preto do Oeste	8,0 km	Ouro Preto do Oeste, RO	Ouro Preto do Oeste, RO	
		2233	Construction of AM-254 from Autazes to Maués	200,0 km	Autazes, AM	Maués, AM	
	Road duplication	Road duplication	2271	Duplication of BR-060 and BR-364 from Jataí to Santa Rita do Araguaia	182,9 km	Jataí, GO	Santa Rita do Araguaia, GO
			2272	Duplication of BR-364 from Alto Araguaia to Rondonópolis	200,0 km	Alto Araguaia, MT	Rondonópolis, MT
			2372	Duplication of BR-364 from Vilhena to Porto Velho	666,3 km	Vilhena, RO	Porto Velho, RO
			2526	Duplication of BR-319 road in Humaitá	62,7 km	Humaitá, AM	Humaitá, AM
			2541	Duplication of MGT-364/BR-364 road from Planura to Frutal	40,0 km	Planura, MG	Frutal, MG
			2549	Duplication of MT-060/ BR-070 road from Várzea Grande to Nossa Senhora do Livramento	11,3 km	Várzea Grande, MT	Nossa Senhora do Livramento, MT
			2600	Duplication of BR-230 road in Humaitá	23,1 km	Humaitá, AM	Humaitá, AM
			2617	Duplication of GO-341/ BR-359 road in Mineiros	112,8 km	Mineiros, GO	Mineiros, GO
			2642	Duplication of BR-174 from Cáceres to Comodoro	519,9 km	Cáceres, MT	Comodoro, MT
			3618	Duplication of SP-055/ BR-101 road from Bertioga to Santos	33,6 km	Bertioga, SP	Santos, SP
			3624	Duplication of BR-153 from Icém to São José do Rio Preto	49,3 km	Icém, SP	São José do Rio Preto, SP
			3648	Duplication of SP-351/ BR-265 road from Santo Antônio da Alegria to Batatais	53,0 km	Santo Antônio da Alegria, SP	Batatais, SP
			3650	Duplication of SP-322/ BR-265 and SP-425/ BR-265 roads from Bebedouro to Guapiaçu	84,9 km	Bebedouro, SP	Guapiaçu, SP

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road duplication	3653	Duplication of SP-215/BR-267 road from Águas da Prata to Santa Cruz das Palmeiras	73,5 km	Águas da Prata, SP	Santa Cruz das Palmeiras, SP	
		3654	Duplication of SP-350/BR-369 road from São José do Rio Pardo to Casa Branca	23,5 km	São José do Rio Pardo, SP	Casa Branca, SP	
		3773	Duplication of MGT-455/BR-455 road from Campo Florido to Planura	51,6 km	Campo Florido, MG	Planura, MG	
		3893	Duplication of BR-319 road in Canutama	76,1 km	Canutama, AM	Canutama, AM	
		3921	Duplication of BR-319 road in Porto Velho	56,0 km	Porto Velho, RO	Porto Velho, RO	
	Paving of road	0660	Paving of MT-343 from Cáceres to Porto Estrela	94,9 km	Cáceres, MT	Porto Estrela, MT	
		0673	Paving of BR-174 from Juína to Colniza	587,7 km	Juína, MT	Colniza, MT	
		0675	Paving of BR-174 road in Vilhena	45,7 km	Vilhena, RO	Vilhena, RO	
		0677	Paving of BR-421 from Monte Negro to Campo Novo de Rondônia	31,5 km	Monte Negro, RO	Campo Novo de Rondônia, RO	
		2232	Paving of AM-174 from Apuí to Novo Aripuanã	235,0 km	Apuí, AM	Novo Aripuanã, AM	
		2601	Paving of BR-319 from Borba to Humaitá	447,0 km	Borba, AM	Humaitá, AM	
		2722	Paving of BR-230 from Humaitá to Lábrea	172,8 km	Humaitá, AM	Lábrea, AM	
		2723	Paving of BR-230 from Maués to Humaitá	601,4 km	Maués, AM	Humaitá, AM	
		Restoration of pavement on road	0792	Restoration of pavement on SP-350 from São João do Rio Pardo to Tapiratiba	27,3 km	São José do Rio Pardo, SP	Tapiratiba, SP
			2599	Restoration of pavement on BR-174 and AMT-174/BR-174 roads from Borba to Manaus	226,0 km	Borba, AM	Manaus, AM
	3627		Restoration of pavement on SP-46/BR-154 road from Votuporanga to Nhandeara	32,8 km	Votuporanga, SP	Nhandeara, SP	
	3655		Restoration of pavement on SP-326/BR-364 road from Barretos to Colômbia	42,1 km	Barretos, SP	Colômbia, SP	
	3777		Restoration of pavement on MG-426/BR-461 road in Iturama	17,7 km	Iturama, MG	Iturama, MG	

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Restoration of pavement on road	3914	Restoration of pavement on BR-174 in Vilhena	33,2 km	Vilhena, RO	Vilhena, RO	
		3928	Restoration of pavement on MT-483 in Rondonópolis	10,0 km	Rondonópolis, MT	Rondonópolis, MT	
		3936	Restoration of pavement on BR-421 from Ariquemes to Monte Negro	69,3 km	Ariquemes, RO	Monte Negro, RO	
Terminal	Terminal adjustment	0403	Adjustment of Porto Murtinho waterway cargo terminal	1 un	Porto Murtinho, MS	Porto Murtinho, MS	
		0546	Adjustment of Santa Fé do Sul rail freight terminal	1 un	Santa Fé do Sul, SP	Santa Fé do Sul, SP	
		1819	Adjustment of Ladário intermodal cargo terminal	1 un	Ladário, MS	Ladário, MS	
		2885	Adjustment and expansion of Port of Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO	
	Terminal construction	Terminal construction	0368	Construction of freight terminal in Jataí	1 un	Jataí, GO	Jataí, GO
			0539	Construction of rail freight terminal in Colômbia	1 un	Colômbia, SP	Colômbia, SP
			0548	Construction of freight terminal in Franca	1 un	Franca, SP	Franca, SP
			1780	Construction of waterway cargo terminal in Santo Antônio das Lendas in Cáceres	1 un	Cáceres, MT	Cáceres, MT
			1799	Construction of rail freight terminal in Vilhena	1 un	Vilhena, RO	Vilhena, RO
			1840	Construction of waterway cargo terminal in Corumbatai in Piracicaba	1 un	Piracicaba, SP	Piracicaba, SP
			1841	Construction of waterway cargo terminal in Paulínia	1 un	Paulínia, SP	Paulínia, SP
		1861	Construction of rail freight terminal in Água Clara	1 un	Água Clara, MS	Água Clara, MS	
		1865	Construction of intermodal cargo terminal in Rubinéia	1 un	Rubinéia, SP	Rubinéia, SP	
		1868	Construction of waterway cargo terminal in Porto Chuelo in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO	

Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	2050	Construction of container terminal in Port of Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO
		2155	Construction of logistics platform in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		2373	Construction of mixed-use waterway terminal in Apuí	1 un	Apuí, AM	Apuí, AM
		2405	Construction of mixed-use waterway terminal in Borba	1 un	Borba, AM	Borba, AM
		2441	Construction of Ártemis waterway cargo terminal in Piracicaba	1 un	Piracicaba, SP	Piracicaba, SP
		2442	Construction of rail freight terminal in Três Lagoas	1 un	Três Lagoas, MS	Três Lagoas, MS
		2443	Construction of rail freight terminal in Corumbá	1 un	Corumbá, MS	Corumbá, MS
		2447	Construction of waterway terminal in Machadinho d'Oeste	1 un	Machadinho d'Oeste, RO	Machadinho d'Oeste, RO
		2448	Construction of logistics platform in São José do Rio Preto	1 un	São José do Rio Preto, SP	São José do Rio Preto, SP
		2449	Construction of logistics platform in Ribeirão Preto	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP
		2450	Construction of logistics platform in Bauru	1 un	Bauru, SP	Bauru, SP
		2451	Construction of logistics platform in Campinas	1 un	Campinas, SP	Campinas, SP
		2453	Construction of logistics platform in Franco da Rocha	1 un	Franco da Rocha, SP	Franco da Rocha, SP
		2454	Construction of logistics platform in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP
		2838	Construction of parking lot for cargo vehicles in Campinas Metropolitan Region	1 un	Campinas, SP	Campinas, SP
		3220	Construction of logistics platform in Taubaté	1 un	Taubaté, SP	Taubaté, SP
3224	Construction of logistics platform in Limeira	1 un	Limeira, SP	Limeira, SP		



Table 13 - List of projects of the North-Southeast Corridor (E6)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	3411	Construction of parking lot for cargo vehicles in Baixada Santista Metropolitan Region	1 un	Santos, SP	Santos, SP
		3412	Construction of parking lot for cargo vehicles in Ribeirão Preto Metropolitan Region	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP
		3414	Construction of parking lot for cargo vehicles in Piracicaba Urban Area	1 un	Piracicaba, SP	Piracicaba, SP

### 5.6.2 ESTIMATE OF INVESTMENT IN PROJECTS OF THE NORTH-SOUTHEAST CORRIDOR (E6)

Estimates of minimum investment in transport infrastructure required for operational improvement of the North-Southeast Corridor are shown in Table 14, according to the respective intervention categories.

Table 14 - Minimum Investment - North-Southeast Corridor (E6)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	11 un	666.794.879,01
	Airport construction	4 un	50.813.537,25
Rail	Railway construction	1.342,2 km	18.473.726.801,43
	Railway duplication	110,0 km	1.073.025.191,02
	Elimination of bottlenecks	154 un	759.528.293,98
	Restoration of railway	2.695,0 km	15.755.203.607,16
Waterway	Waterway adjustment	5.615,0 km	2.023.434.655,83
		2 un	351.106.740,30
	Cargo riverboat	1 un	1.949.995.316,03
Road	Road adjustment	1.152,9 km	1.104.728.049,89
	Road construction	259,9 km	943.326.585,68
	Road duplication	2.320,5 km	26.821.099.656,58
	Paving of road	2.216,0 km	12.099.905.401,26
	Restoration of pavement on road	458,4 km	1.509.467.104,97
Terminal	Terminal adjustment	4 un	125.918.136,04
	Terminal construction	30 un	2.988.384.744,10
<b>Total</b>			<b>86.696.458.700,53</b>

## 5.7 EAST-WEST CORRIDOR (E7)

The ends of the East-West Corridor are located in Salvador, BA and Cruzeiro do Sul, AC, connecting the Northeast, Central-West and North regions of the country and crossing through the capital cities of Brasília, DF, Cuiabá, MT and Rio Branco, AC. The corridor's importance lies mainly in meeting the demands originating from or destined for the Bahia port complex and the flow of agricultural products from western Bahia and the states of Goiás, Mato Grosso and Rondônia.

The corridor begins with road transportation in Salvador, BA and follows highways BR-324, BR-116 and BR-242 to Luís Eduardo Magalhães, BA. From Luís Eduardo Magalhães, BA, it goes down highway BR-020 until reaching Brasília, DF, following BR-070 until the capital of Mato Grosso. From Cuiabá, MT, the corridor runs along highways BR-163, BR-364 and BR-435 to Pimenteiras do Oeste, RO from where it follows the waterways of the Guaporé, Mamoré and Madeira rivers to the Abunã District in the municipality of Porto Velho, RO. The final part of the corridor is comprised again of stretches of road from BR-364 and BR-307, reaching the city of Cruzeiro do Sul, AC.

Along its route, the East-West Corridor (E7) connects with: the Northeast-South Corridor (E1) in Feira de Santana, BA; the Coastal Corridor (E2) throughout the stretch that allows access to Salvador, BA (from Conceição do Jacuípe, BA to the state capital); the North-South Corridor (E3) in São Francisco de Goiás, GO; the Central-North Corridor (E5) on the section between Campo Verde, MT and Diamantino, MT; the North-Southeast Corridor (E6) in the sections between the municipality of Campo Verde, MT and Várzea Grande, MT and between Comodoro, MT and Vilhena, RO; the Northeast-Southeast Corridor (E8) on the border between Ibotirama, BA and Muquém do São Francisco, BA; and with the Cabotage Corridor (E9) in Salvador, BA .

The East-West Corridor is displayed in Figure 14, along with the projects belonging to it.

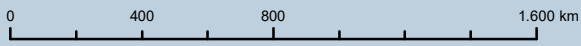


Figure 14 - East-West Corridor (E7)



LEGENDA	
Quantidade de Projetos de Infraestrutura	
	Aeroportuária - 15
	Ferrovária - 07
	Hidroviária - 05
	Portuária - 0
	Rodoviária - 86
	Terminal - 20
	Eixo Leste-Oeste (E7)

133



1:23.000.000

### 5.7.1 PROJECTS OF THE EAST-WEST CORRIDOR (E7)

In the East-West Structural Corridor (E7), projects related to road infrastructure stand out by far. This is evidenced by the duplications of BR-070 in Goiás and Mato Grosso, BR-242 in Bahia and BR-364 in Mato Grosso. Also noteworthy are the projects for adjustment of highways BR-020 in Bahia, BR-364 in Acre and BR-435 in Rondônia. The construction of waterway terminals on the Madeira River waterway is also noteworthy among the projects of this corridor's main route, as well as the adjustment of this waterway through dredging and rock removal of the Guaporé and Mamoré rivers.

Although the projects of the East-West Corridor's complementary links cover all infrastructures, road projects still prevail. In this context, of note are the projects proposing duplication of BR-010 and BR-158 in Goiás and BR-122 in Bahia. Additionally, highway construction projects include the construction of BR-020 and BR-122 in Bahia, BR-317 in Amazonas and BR-030 in Minas Gerais. In relation to terminal projects, those proposing the construction of waterway terminals are the most predominant.

As for airport infrastructure, noteworthy projects include the expansion of Barreiras Airport in Barreiras, BA. Regarding rail projects, the construction of three railways is proposed: The Central-West Integration Railway (Fico), the West-East Integration Railway (Fiol) and the Transcontinental Railway. Finally, in relation to waterway projects, notable proposals include those seeking the adjustment of the navigability of the Madeira, Mamoré and Acre rivers, as well as the construction of sluices in rivers that are part of the Madeira River waterway.

Table 15 presents the projects of the East-West Corridor.



Table 15 - List of projects of the East-West Corridor (E7)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1501	Expansion of Barreiras Airport	1 un	Barreiras, BA	Barreiras, BA
		1573	Implementation of air navigation groups at Barra do Garças Airport	1 un	Barra do Garças, MT	Barra do Garças, MT
		1574	Expansion of Barra do Garças Airport	1 un	Barra do Garças, MT	Barra do Garças, MT
		2888	Expansion and restoration of passenger terminal at Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		2946	Restoration of runway system at Tangará da Serra Airport	1 un	Tangará da Serra, MT	Tangará da Serra, MT
		3367	Acquisition of fire engines for Rio Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		3368	Repair of runway at Cruzeiro do Sul Airport	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC
	Airport construction	1576	Construction of Canarana Airport	1 un	Canarana, MT	Canarana, MT
		1587	Construction of Paranatinga Airport	1 un	Paranatinga, MT	Paranatinga, MT
		1664	Construction of aerodrome in Corrente	1 un	Corrente, PI	Corrente, PI
		1667	Construction of aerodrome in Currais	1 un	Currais, PI	Currais, PI
		1669	Construction of aerodrome in Gilbués	1 un	Gilbués, PI	Gilbués, PI
		1675	Construction of aerodrome in Parnaguá	1 un	Parnaguá, PI	Parnaguá, PI
		2889	Construction of freight terminal at Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		2896	Construction of freight terminal at Cruzeiro do Sul Airport	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC
Rail	Railway construction	1377	Construction of West-East Integration Railway from Ilhéus to Barreiras	1.022,0 km	Ilhéus, BA	Barreiras, BA
		1378	Construction of West-East Integration Railway from Barreiras to Luís Eduardo Magalhães	109,4 km	Barreiras, BA	Luís Eduardo Magalhães, BA
		1379	Construction of West-East Integration Railway from Taguatinga to Figueirópolis	395,6 km	Taguatinga, TO	Figueirópolis, TO

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Railway construction	1382	Construction of Central-West Integration Railway from Campinorte to Aruanã	265,9 km	Campinorte, GO	Aruanã, GO
		1383	Construction of Central-West Integration Railway from Cocalinho to Comodoro	1.576,1 km	Cocalinho, MT	Comodoro, MT
		1384	Construction of Transcontinental Railway from Vilhena to Porto Velho	1.173,0 km	Vilhena, RO	Porto Velho, RO
		1385	Construction of Transcontinental Railway from Acrelândia to Rodrigues Alves	922,0 km	Acrelândia, AC	Rodrigues Alves, AC
Waterway	Channel opening	1327	Rock removal at Madeira and Mamoré waterways from Guajará-Mirim to Porto Velho	415,0 km	Guajará-Mirim, RO	Porto Velho, RO
	Waterway adjustment	1326-INT	Adjustment of Acre River Waterway from Rio Branco to Boca do Acre	210,0 km	Rio Branco, AC	Boca do Acre, AM
		2874-INT	Dredging and rock removal at Guaporé and Mamoré river waterways from Vila Bela da Santíssima Trindade to Guajará-Mirim	1.412,0 km	Vila Bela da Santíssima Trindade, MT	Guajará-Mirim, RO
	Cargo riverboat	0718	Construction of Jirau sluice on the Madeira River waterway	1 un	Porto Velho, RO	Porto Velho, RO
		1312	Construction of Abunã sluice on the Madeira River waterway	1 un	Porto Velho, RO	Porto Velho, RO
Road	Road adjustment	2471	Implementation of signs on MT-235 from Campo Novo do Parecis to Sapezal	103,7 km	Campo Novo do Parecis, MT	Sapezal, MT
		2501	Implementation of signs on GO-118 from Teresina de Goiás to Campos Belos	124,1 km	Teresina de Goiás, GO	Campos Belos, GO
		2524	Implementation of additional lane on BR-364 from Acrelândia to Senador Guiomard	20,0 km	Acrelândia, AC	Senador Guiomard, AC
		2528	Implementation of signs on BR-135 from São Desidério to Correntina	138,7 km	São Desidério, BA	Correntina, BA
		2533	Implementation of signs on BR-010 and DF-345 / BR-010 in Brasília	44,4 km	Brasília, DF	Brasília, DF



Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2534	Implementation of signs on BR-020 in Brasília	24,7 km	Brasília, DF	Brasília, DF
		2550	Implementation of signs on BR-158 from Vila Rica to Canabrava do Norte	196,0 km	Vila Rica, MT	Canabrava do Norte, MT
		2577	Implementation of signs on BR-364 in Porto Velho	26,4 km	Porto Velho, RO	Porto Velho, RO
		2707	Implementation of additional lane on BR-135 road from Formosa do Rio Preto to Riachão das Neves	38,0 km	Formosa do Rio Preto, BA	Riachão das Neves, BA
		2708	Implementation of additional lane on BR-343 and BR-135 roads from Floriano to Cristalândia do Piauí	371,0 km	Floriano, PI	Cristalândia do Piauí, PI
		3458	Implementation of signs on BR-020 from Correntina to Luís Eduardo Magalhães	196,0 km	Correntina, BA	Luís Eduardo Magalhães, BA
		3488	Implementation of additional lane on BAT-242/BR-242 from Sapeaçu to Castro Alves	24,0 km	Sapeaçu, BA	Castro Alves, BA
		3738	Implementation of additional lane on BR-352 from Abadia dos Dourados to Coromandel	20,0 km	Abadia dos Dourados, MG	Coromandel, MG
		3799	Implementation of signs on BR-020 in Brasília	40,5 km	Brasília, DF	Brasília, DF
		3801	Implementation of signs on DF-001/BR-251 in Brasília	51,7 km	Brasília, DF	Brasília, DF
		3802	Implementation of signs on DF-003/BR-450 in Brasília	37,1 km	Brasília, DF	Brasília, DF
		3803	Implementation of signs on DF-130 in Brasília	42,8 km	Brasília, DF	Brasília, DF
		3806	Implementation of additional lane on DF-250/BR-479 in Brasília	14,2 km	Brasília, DF	Brasília, DF
		3852	Implementation of signs on GO-080 from Jaraguá to Barro Alto	98,9 km	Jaraguá, GO	Barro Alto, GO
		3853	Implementation of signs on GO-080 from Goiânia to São Francisco de Goiás	91,3 km	Goiânia, GO	São Francisco de Goiás, GO



Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3858	Implementation of additional lane on BR-414 from Niquelândia to Vila Propício	97,0 km	Niquelândia, GO	Vila Propício, GO
		3859	Implementation of signs on BR-414 from Vila Propício to Cocalzinho de Goiás	43,7 km	Vila Propício, GO	Cocalzinho de Goiás, GO
		3861	Implementation of additional lane on BR-414 from Cocalzinho de Goiás to Anápolis	84,0 km	Cocalzinho de Goiás, GO	Anápolis, GO
		3866	Implementation of signs on GO-060 from São Luís de Montes Belos to Piranhas	185,7 km	São Luís de Montes Belos, GO	Piranhas, GO
		3869	Implementation of signs on GO-174 from Rio Verde to Iporá	163,5 km	Rio Verde, GO	Iporá, GO
		3919	Implementation of additional lane on BR-158 from Bom Jesus do Araguaia to Ribeirão Cascalheira	59,0 km	Bom Jesus do Araguaia, MT	Ribeirão Cascalheira, MT
		3950	Implementation of signs on BR-421 and BR-425 from Nova Mamoré to Guajará-Mirim	50,0 km	Nova Mamoré, RO	Guajará-Mirim, RO
		3958	Construction of bridge on BR-364 over Madeira River in Porto Velho	3,9 km	Porto Velho, RO	Porto Velho, RO
	3959	Construction of bridge on BR-425 over Mamoré River in Guajará-Mirim	12,9 km	Guajará-Mirim, RO	Guajará-Mirim, RO	
	Road construction	0795	Construction of BR-030 from Buritis to Montalvânia	326,6 km	Buritis, MG	Montalvânia, MG
		0954	Construction of BR-354 from Cristalina to Catalão	133,1 km	Cristalina, GO	Catalão, GO
		2157	Construction of BR-135 from Correntina to Jaborandi	32,9 km	Correntina, BA	Jaborandi, BA
		2159	Construction of BR-020 from Riachão das Neves to Campo Alegre de Lourdes	337,4 km	Riachão das Neves, BA	Campo Alegre de Lourdes, BA
		2198	Construction of PI-414 from Avelino Lopes to Morro Cabeça no Tempo	55,0 km	Avelino Lopes, PI	Morro Cabeça no Tempo, PI
		2215	Construction of BR-317 from Lábrea to Boca do Acre	416,0 km	Lábrea, AM	Boca do Acre, AM

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construction	2257	Construction of BR-070 from Cocalzinho de Goiás to São Francisco de Goiás	61,7 km	Cocalzinho de Goiás, GO	São Francisco de Goiás, GO
		2258	Construction of BR-251 from Padre Bernardo to Vila Propício	90,9 km	Padre Bernardo, GO	Vila Propício, GO
		2261	Construction of BR-251 from Cocalinho to Nova Xavantina	140,0 km	Cocalinho, MT	Nova Xavantina, MT
		2720	Construction of BR-122 from Novo Horizonte to Rio do Pires	49,7 km	Novo Horizonte, BA	Rio do Pires, BA
		2721	Construction of BR-122 from Juazeiro to Ouroândia	152,7 km	Juazeiro, BA	Ouroândia, BA
		3693	Construction of Brasiléia Bypass on BR-317	11,0 km	Epitaciolândia, AC	Brasiléia, AC
		3842	Construction of Aragarças Bypass on BR-070	6,3 km	Aragarças, GO	Aragarças, GO
		3897	Construction of Barra do Garças Bypass on BR-070	13,2 km	Barra do Garças, MT	Pontal do Araguaia, MT
		Road duplication	0565	Duplication of BR-242 from Rafael Jambeiro to Barreiras	669,3 km	Rafael Jambeiro, BA
	0583		Duplication of BR-070 and GOT-070 / BR-070 from Jaraguá to Aragarças	340,5 km	São Francisco de Goiás, GO	Aragarças, GO
	0611		Duplication of BR-070 from Barra do Garças to Santo Antônio do Leverger	422,4 km	Barra do Garças, MT	Santo Antônio do Leverger, MT
	0635		Duplication of BR-070 from Águas Lindas de Goiás to Cocalzinho de Goiás	54,1 km	Águas Lindas de Goiás, GO	Cocalzinho de Goiás, GO
	0654		Duplication of BR-020 from Formosa to Guarani de Goiás	246,4 km	Formosa, GO	Guarani de Goiás, GO
	2211		Duplication of BR-020 from Luís Eduardo Magalhães to Barreiras	81,7 km	Luís Eduardo Magalhães, BA	Barreiras, BA
	2527		Duplication of BR-020 from Jaborandi to Correntina	25,0 km	Jaborandi, BA	Correntina, BA
	2552		Duplication of BR-364 from Diamantino to Comodoro	660,2 km	Diamantino, MT	Comodoro, MT
	2605		Duplication of BR-242 road in Luís Eduardo Magalhães	15,5 km	Luís Eduardo Magalhães, BA	Luís Eduardo Magalhães, BA
	2613		Duplication of GO-118/BR-010 road from Planaltina to Teresina de Goiás	228,6 km	Planaltina, GO	Teresina de Goiás, GO

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	2615	Duplication of BR-158 and GO-184/BR-158 road from Aragarças to Aporé	406,2 km	Aragarças, GO	Aporé, GO
		2702	Duplication of BR-122 from Guanambi to Urandi	82,5 km	Guanambi, BA	Urandi, BA
		2704	Duplication of BA-144 / BR-122, BA-052 / BR-122 and BA-122 / BR-122 from Jacobina to Seabra	225,2 km	Jacobina, BA	Seabra, BA
		2706	Duplication of BR-135 road in Barreiras	2,8 km	Barreiras, BA	Barreiras, BA
		3477	Duplication of BR-116 road in Feira de Santana (North Bypass)	5,7 km	Feira de Santana, BA	Feira de Santana, BA
		3717	Duplication of BR-251 road in Unaí	84,5 km	Unaí, MG	Unaí, MG
		3800	Duplication of BR-251 road in Brasília	45,6 km	Brasília, DF	Brasília, DF
		3851	Duplication of BR-251 in Cristalina	34,0 km	Cristalina, GO	Cristalina, GO
	Paving of road	0663	Paving of BR-158 from Canabrava do Norte to Bom Jesus do Araguaia	122,9 km	Canabrava do Norte, MT	Bom Jesus do Araguaia, MT
		0821	Paving of GO-468/BR-030 road in Formosa	19,3 km	Formosa, GO	Formosa, GO
		2158	Construction of Road Bypass in Coribe and paving of BR-135 road in Cocos	30,0 km	Cocos, BA	Coribe, BA
		2214	Paving of BR-317 road in Boca do Acre	45,1 km	Boca do Acre, AM	Boca do Acre, AM
		2266	Paving of MT-100 from Araguaiana to Cocalinho	257,7 km	Araguaiana, MT	Cocalinho, MT
		2267	Paving of MT-326 in Cocalinho	61,6 km	Cocalinho, MT	Cocalinho, MT
		2269	Paving of MT-388, MT-246 and MT-247 from Campos de Júlio to Jauru	190,3 km	Campos de Júlio, MT	Jauru, MT
		Restoration of pavement on road	2496	Restoration of pavement on AC-040 and AC-010 from Senador Guimard to Porto Acre	89,2 km	Senador Guimard, AC
	2498		Restoration of pavement on BA-160 from Ibotirama to Bom Jesus da Lapa	139,0 km	Ibotirama, BA	Bom Jesus da Lapa, BA
	2499		Restoration of pavement on BA-460 from Luís Eduardo Magalhães to Barreiras	54,6 km	Luís Eduardo Magalhães, BA	Barreiras, BA

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	2516	Restoration of the pavement on MG-188 from Unaí to Patrocínio	291,1 km	Unaí, MG	Patrocínio, MG
		2598	Restoration of pavement on BR-364 from Rio Branco to Cruzeiro do Sul	636,7 km	Rio Branco, AC	Cruzeiro do Sul, AC
		2603	Restoration of pavement on BR-020 from Barreiras to Riachão das Neves	99,0 km	Barreiras, BA	Riachão das Neves, BA
		2606	Restoration of pavement on BR-349 from Bom Jesus da Lapa to Correntina	323,0 km	Bom Jesus da Lapa, BA	Correntina, BA
		2641	Restoration of pavement on BR-158 from Ribeirão Cascalheira to Barra do Garças	391,8 km	Ribeirão Cascalheira, MT	Barra do Garças, MT
		2703	Restoration of pavement on BA-122/BR-122 road from Paramirim to Caetité	27,7 km	Paramirim, BA	Caetité, BA
		2705	Restoration of pavement on BR-135 road from Barreiras to São Desidério	26,4 km	Barreiras, BA	São Desidério, BA
		3465	Restoration of pavement on BR-122 from Ourolândia to Jacobina	32,6 km	Ourolândia, BA	Jacobina, BA
		3686	Restoration of pavement on AC-407 / BR-307, BR-307, AC-405 / BR-307 and AC-405 from Cruzeiro do Sul to Mâncio Lima	64,8 km	Cruzeiro do Sul, AC	Mâncio Lima, AC
		3687	Restoration of pavement on AC-307 / BR-364 and AC-405 / BR-364 from Rodrigues Alves to Mâncio Lima	35,9 km	Rodrigues Alves, AC	Mâncio Lima, AC
		3804	Restoration of pavement on DF-250/BR-479 in Brasília	30,8 km	Brasília, DF	Brasília, DF
		3805	Restoration of pavement on DF-095 in Brasília	12,5 km	Brasília, DF	Brasília, DF
		3867	Restoration of pavement on GO-164 from Goiás to São Luís de Montes Belos	79,7 km	Goiás, GO	São Luís de Montes Belos, GO
3949	Restoration of pavement on BR-242 and TO-110 / BR-242 in Taguatinga	14,6 km	Taguatinga, TO	Taguatinga, TO		
3951	Restoration of pavement on BR-435 from Vilhena to Pimenteiras do Oeste	135,2 km	Vilhena, RO	Pimenteiras do Oeste, RO		

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Terminal	Terminal adjustment	0326	Adjustment of mixed-use waterway terminal in Cruzeiro do Sul	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC	
		0365	Adjustment of mixed-use waterway terminal of Aruanã	1 un	Aruanã, GO	Aruanã, GO	
			0327	Construction of logistics center in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
			0410	Construction of waterway cargo terminal in Barra do Garças	1 un	Barra do Garças, MT	Barra do Garças, MT
			0411	Construction of waterway cargo terminal in Nova Xavantina	1 un	Nova Xavantina, MT	Nova Xavantina, MT
			0722	Construction of mixed waterway terminal in Boca do Acre	1 un	Boca do Acre, AM	Boca do Acre, AM
			1785	Construction of waterway cargo terminal in Barreiras	1 un	Barreiras, BA	Barreiras, BA
			1786	Construction of rail freight terminals in Barreiras	1 un	Barreiras, BA	Barreiras, BA
			1792	Construction of rail freight terminal in Luís Eduardo Magalhães	1 un	Luís Eduardo Magalhães, BA	Luís Eduardo Magalhães, BA
		Terminal construction	1797	Construction of waterway cargo terminal in Nova Nazaré	1 un	Nova Nazaré, MT	Nova Nazaré, MT
			1818	Construction of waterway terminal in Feijó	1 un	Feijó, AC	Feijó, AC
			1869	Construction of waterway terminal in Cabixi	1 un	Cabixi, RO	Cabixi, RO
			2379	Construction of mixed-use waterway terminal in Envira	1 un	Envira, AM	Envira, AM
			2438	Construction of waterway terminal in Manoel Urbano	1 un	Manoel Urbano, AC	Manoel Urbano, AC
			2439	Construction of waterway terminal in Sena Madureira	1 un	Sena Madureira, AC	Sena Madureira, AC
			2440	Construction of waterway terminal in Tarauacá	1 un	Tarauacá, AC	Tarauacá, AC
			2444	Construction of mixed-use waterway terminal in Guajará-Mirim	1 un	Guajará-Mirim, RO	Guajará-Mirim, RO
			2445	Construction of waterway terminal in Costa Marques	1 un	Costa Marques, RO	Costa Marques, RO

Table 15 - List of projects of the East-West Corridor (E7)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	2446	Construction of waterway terminal in Pimenteiras do Oeste	1 un	Pimenteiras do Oeste, RO	Pimenteiras do Oeste, RO
		3409	Construction of parking lot for cargo vehicles in the Integrated Development Region of the Federal District and Surrounding Areas	1 un	Brasília, DF	Brasília, DF

### 5.7.2 ESTIMATE OF INVESTMENT IN THE EAST-WEST CORRIDOR (E7)

To enable implementation of the projects proposed for the East-West Corridor, minimum investments by type of intervention are estimated in Table 16.

Table 16 - Minimum Investment - East-West Corridor (E7)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	7 un	118.055.840,35
	Airport construction	8 un	92.083.772,26
Rail	Railway construction	5.464,0 km	46.162.261.128,44
Waterway	Channel opening	415,0 km	633.429.568,10
	Waterway adjustment	1.622,0 km	2.181.337.318,80
	Cargo riverboat	2 un	3.147.766.488,32
Road	Road adjustment	2.403,2 km	3.072.000.121,40
	Road construction	1.826,5 km	8.468.354.610,47
	Road duplication	3.630,2 km	41.960.061.274,46
	Paving of road	726,9 km	4.145.760.131,33
	Restoration of pavement on road	2.484,6 km	8.181.548.797,92
Terminal	Terminal adjustment	2 un	6.599.597,07
	Terminal construction	18 un	797.478.267,47
<b>Total</b>			<b>118.966.736.916,39</b>

## 5.8 NORTHEAST-SOUTHEAST CORRIDOR (E8)

The Northeast-Southeast Corridor (E8) connects São Luís, MA to Rio de Janeiro, RJ, passing through two other capitals: Teresina, PI and Belo Horizonte, MG. The corridor traverses the states of Maranhão, Piauí, Pernambuco, Bahia, Minas Gerais and Rio de Janeiro.

It begins via rail at the Port of Itaqui in São Luís, MA, following the Transnordestina Logística railway network until the municipality of Teresina, PI. There, the corridor shifts to road transportation via highway BR-316 until it reaches the municipality of Dom Expedito Lopes, PI, where it follows a stretch of BR-230 overlapping with BR-316, and, in Picos, PI it follows BR-407 down to Petrolina, PE. The corridor then follows the São Francisco River waterway to Pirapora, MG. In Pirapora, the corridor returns to rail transport via the Centro-Atlântica (FCA) and MRS Logística Railways networks to the Porto of Rio de Janeiro, RJ.

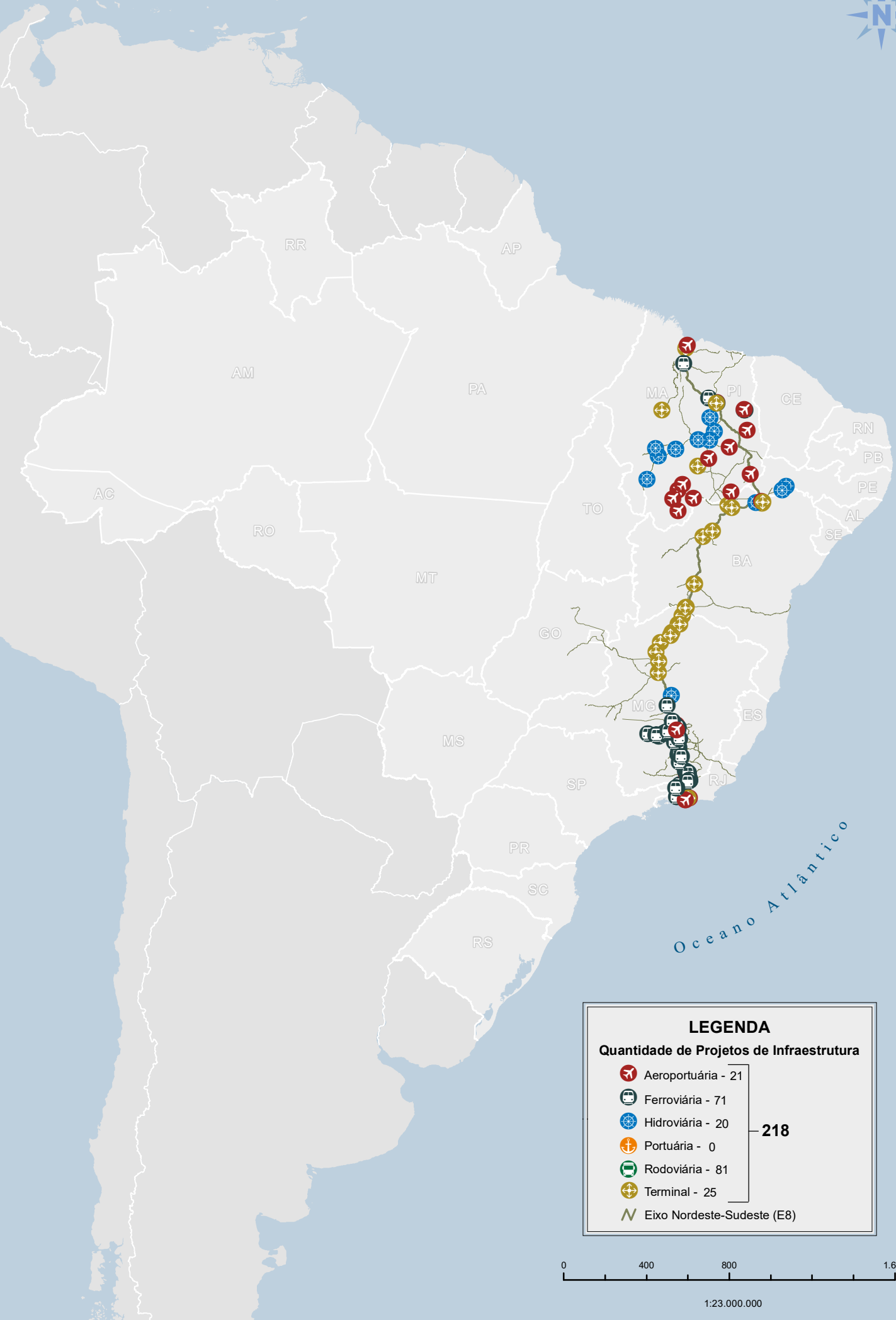
In this corridor, the cities of Petrolina, PE and Juazeiro, BA are of particular note, forming one of the most developed agro-industrial centers of the São Francisco River Valley, an area marked by widespread cultivation of fruits for export.

The Northeast-Southeast Corridor (E8) integrates with the Northeast-South Corridor (E1), overlapping at the municipalities of Corinto, MG and Belo Horizonte, MG. It also integrates with the Coastal Corridor (E2), again overlapping at the municipalities of Timon, MA and Teresina, PI and reaching a junction at Belford Roxo, RJ. The corridor even integrates with the East-West Corridor (E7) in Ibotirama, BA, and with the Cabotage Corridor (E9) at the ports of Itaqui, São Luís, MA, and Rio de Janeiro, RJ.

The route of the Northeast-Southeast Corridor and the projects that comprise it are displayed in Figure 15.



Figure 15 - Northeast-Southeast Corridor (E8)



LEGENDA	
Quantidade de Projetos de Infraestrutura	
	Aeroportuária - 21
	Feroviária - 71
	Hidroviária - 20
	Portuária - 0
	Rodoviária - 81
	Terminal - 25
	Eixo Nordeste-Sudeste (E8)

**218**

0 400 800 1.600 km

1:23.000.000



### 5.8.1 PROJECTS OF THE NORTHEAST-SOUTHEAST CORRIDOR (E8)

The projects proposed along the main route of the Northeast-Southeast Corridor (E8) include rail, road and waterway infrastructures, as well as the adjustment and construction of terminals. In terms of rail transportation, notable projects include the elimination of bottlenecks (such as the removal of right of way intrusions and removal of level crossings), construction of bypasses and branch lines in the state of de Minas Gerais and remodeling of the railway from Pirapora, MG to Rio de Janeiro, RJ for construction of the Goiânia-Rio de Janeiro railway<sup>70</sup>. Notable among the road projects proposed is the duplication of BR-316 and adjustment of BR-407. Finally, notable waterway infrastructure projects include adjustment of the São Francisco River waterway and Sobradinho sluice.

Regarding projects serving as complementary links to this corridor, of particular note are the road projects proposed, which include the adjustment and duplication of highways BR-030, BR-135 and BR-365. The BR-030 is also notable for the paving projects proposed in the state of Bahia. In relation to rail transport, notable interventions include adjustment projects ranging from the elimination of bottlenecks and construction of more rail bypasses in Minas Gerais (besides those associated with the Structural Corridor) to the construction of rail links from Goiânia, GO to Rio de Janeiro, RJ and from Uruaçu, GO to São João da Barra, RJ.

The airport projects complementary to the Northeast-Southeast Corridor (E8) propose adjustments to nine airports, with emphasis on interventions at Pampulha Airport, in Belo Horizonte, MG, and in Confins, MG. In addition, construction projects are proposed for several aerodromes in the state of Piauí. As for waterway infrastructure, notable projects include those proposing the construction of sluices on the Balsas, Parnaíba and São Francisco river waterways, as well as projects aimed at improving the navigability of these waterways. Finally, the complementary links of this corridor also include projects for the construction of intermodal terminals, as well as a logistics district and a parking lot for vehicles.

Table 17 presents the projects proposed for the Northeast-Southeast Corridor.

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<sup>70</sup> The construction and remodeling of the Goiânia-Rio de Janeiro railway is included in more than one project. In the section overlapping with E8, the corridor is classified as a Structural Corridor. In all other sections, it is regarded as a complementary link. Additionally, the infrastructure is already present in the overlapping section, meaning remodeling of the railway is expected; in all others, construction of the railway is necessary.

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0645	Expansion of passenger terminal and aircraft yard at Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		0964	Expansion and restoration of Tancredo Neves airport in Confins	1 un	Confins, MG	Confins, MG
		1592	Restoration of Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		1595	Expansion of Francisco de Assis Airport in Juiz de Fora	1 un	Juiz de Fora, MG	Juiz de Fora, MG
		1611	Restoration of Senador Nilo Coelho Airport in Petrolina	1 un	Petrolina, PE	Petrolina, PE
		1656	Restoration of Roberto Marinho airport in Jacarepaguá	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		1673	Restoration of Oeiras Airport	1 un	Oeiras, PI	Oeiras, PI
		2985	Restoration of runway system at Santos Dumont Airport in Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3391	Repair of runway at Marechal Cunha Machado Airport in São Luís	1 un	São Luís, MA	São Luís, MA
	3392	Repair of runway at Senador Petrônio Portella Airport in Teresina	1 un	Teresina, PI	Teresina, PI	
	3400	Acquisition of fire engines for Jacarepaguá Airport	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ	
	Airport construction	1663	Construction of aerodrome in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI
		1665	Construction of aerodrome in Cristino Castro	1 un	Cristino Castro, PI	Cristino Castro, PI
		1666	Construction of aerodrome in Curimatá	1 un	Curimatá, PI	Curimatá, PI
		1668	Construction of aerodrome in Dom Inocêncio	1 un	Dom Inocêncio, PI	Dom Inocêncio, PI
		1670	Construction of aerodrome in Guaribas	1 un	Guaribas, PI	Guaribas, PI
		1671	Construction of aerodrome in Itaueira	1 un	Itaueira, PI	Itaueira, PI

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport construction	1676	Construction of aerodrome in Paulistana	1 un	Paulistana, PI	Paulistana, PI
		1678	Construction of aerodrome in Pimenteiras	1 un	Pimenteiras, PI	Pimenteiras, PI
		1681	Construction of aerodrome in Redenção do Gurguéia	1 un	Redenção do Gurguéia, PI	Redenção do Gurguéia, PI
		2968	Construction of passenger terminal at Gurguéia Airport in Bom Jesus	1 un	Bom Jesus, PI	Bom Jesus, PI
Rail	Railway construction	0050	Construction of Santos Dumont Rail Bypass	4,7 km	Santos Dumont, MG	Santos Dumont, MG
		0703	Construction of Itaúna Rail Bypass	18,4 km	Itaúna, MG	Itaúna, MG
		0704	Construction of Divinópolis Rail Bypass	29,5 km	Divinópolis, MG	Divinópolis, MG
		0705	Construction of Santo Antônio do Monte Rail Bypass	7,0 km	Santo Antônio do Monte, MG	Santo Antônio do Monte, MG
		1398	Construction of railway in Serra do Tigre from Ibiá to Sete Lagoas	400,0 km	Ibiá, MG	Sete Lagoas, MG
		1443	Construction and remodeling of Goiânia-Rio de Janeiro railway from Goiânia to Santo Antônio do Descoberto	130,4 km	Goiânia, GO	Santo Antônio do Descoberto, GO
		1444	Construction and remodeling of Goiânia-Rio de Janeiro railway in Brasília	100,4 km	Brasília, DF	Brasília, DF
		1445	Construction and remodeling of Goiânia-Rio de Janeiro railway in Cristalina	30,2 km	Cristalina, GO	Cristalina, GO
		1446	Construction and remodeling of Goiânia- Rio de Janeiro railway in Belmiro Braga	1.009,8 km	Unaí, MG	Belmiro Braga, MG
		1447	Construction and remodeling of Goiânia-Rio de Janeiro railway from Comendador Levy Gasparian to Rio de Janeiro	205,2 km	Comendador Levy Gasparian, RJ	Rio de Janeiro, RJ
1450	Construction of Uruaçu-Campos railway from Uruaçu to Planaltina	267,2 km	Uruaçu, GO	Planaltina, GO		

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Railway construction	1451	Construction of Uruaçu-Campos railway in Brasília	70,9 km	Brasília, DF	Brasília, DF
		1452	Construction of Uruaçu-Campos railway in Cristalina	32,1 km	Cristalina, GO	Cristalina, GO
		1453	Construction of Uruaçu-Campos railway from Unaí to Patrocínio do Muriaé	1.171,9 km	Unaí, MG	Patrocínio do Muriaé, MG
		1454	Construction of Uruaçu-Campos railway from Itaperuna to São João da Barra	163,9 km	Itaperuna, RJ	São João da Barra, RJ
		1468	Construction of rail access to São Francisco River waterway	7,0 km	Juazeiro, BA	Juazeiro, BA
		1719	Construction of Patrocínio Rail Bypass	21,0 km	Patrocínio, MG	Patrocínio, MG
		1720	Construction of Corinto Rail Bypass	12,8 km	Corinto, MG	Corinto, MG
		1730	Construction of branch line in Juiz de Fora	52,0 km	Juiz de Fora, MG	Belmiro Braga, MG
	Elimination of bottlenecks	1692	Removal of right of way intrusion in Timon	1 un	Timon, MA	Timon, MA
		1700	Removal of right of way intrusion in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI
		1704	Removal of right of way intrusions in Barra do Piraí	3 un	Barra do Piraí, RJ	Barra do Piraí, RJ
		1763	Removal of level crossings in Barra do Piraí	2 un	Barra do Piraí, RJ	Barra do Piraí, RJ
		3012	Removal of level crossings in Itaguaí	3 un	Itaguaí, RJ	Itaguaí, RJ
		3014	Removal of level crossing in Mendes	1 un	Mendes, RJ	Mendes, RJ
		3016	Removal of level crossings in Paraíba do Sul	2 un	Paraíba do Sul, RJ	Paraíba do Sul, RJ
		3017	Removal of level crossings in Três Rios	4 un	Três Rios, RJ	Três Rios, RJ
		3019	Removal of level crossing in Valença	1 un	Valença, RJ	Valença, RJ
3069	Removal of level crossing in Antônio Carlos	1 un	Antônio Carlos, MG	Antônio Carlos, MG		

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3070	Removal of level crossing in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		3071	Removal of level crossings in Carandaí	2 un	Carandaí, MG	Carandaí, MG
		3072	Removal of level crossing in Congonhas	1 un	Congonhas, MG	Congonhas, MG
		3073	Removal of level crossings in Conselheiro Lafaiete	2 un	Conselheiro Lafaiete, MG	Conselheiro Lafaiete, MG
		3075	Removal of level crossing in Cristiano Ottoni	1 un	Cristiano Ottoni, MG	Cristiano Ottoni, MG
		3076	Removal of level crossings in Ibitiré	2 un	Ibitiré, MG	Ibitiré, MG
		3079	Removal of level crossings in Itabirito	3 un	Itabirito, MG	Itabirito, MG
		3081	Removal of level crossings in Mário Campos	2 un	Mário Campos, MG	Mário Campos, MG
		3082	Removal of level crossing in Senhora dos Remédios	1 un	Senhora dos Remédios, MG	Senhora dos Remédios, MG
		3083	Removal of level crossing in Sarzedo	1 un	Sarzedo, MG	Sarzedo, MG
		3098	Removal of right of way intrusions in Belo Horizonte	5 un	Belo Horizonte, MG	Belo Horizonte, MG
		3099	Removal of right of way intrusions in Juiz de Fora	14 un	Juiz de Fora, MG	Juiz de Fora, MG
		3100	Removal of right of way intrusions in Ibitiré	4 un	Ibitiré, MG	Ibitiré, MG
		3101	Removal of right of way intrusion in Santana do Deserto	1 un	Santana do Deserto, MG	Santana do Deserto, MG
		3102	Removal of right of way intrusions in Matias Barbosa	2 un	Matias Barbosa, MG	Matias Barbosa, MG
		3103	Removal of right of way intrusion in Congonhas	1 un	Congonhas, MG	Congonhas, MG
		3104	Removal of right of way intrusion in Belo Vale	1 un	Belo Vale, MG	Belo Vale, MG
		3105	Removal of right of way intrusions in Sarzedo	2 un	Sarzedo, MG	Sarzedo, MG
3107	Removal of right of way intrusions in Itabirito	2 un	Itabirito, MG	Itabirito, MG		
3108	Removal of right of way intrusions in Carandaí	2 un	Carandaí, MG	Carandaí, MG		

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3114	Removal of right of way intrusion in Santo Antônio do Monte	1 un	Santo Antônio do Monte, MG	Santo Antônio do Monte, MG
		3115	Removal of right of way Intrusions in Divinópolis	6 un	Divinópolis, MG	Divinópolis, MG
		3116	Removal of right of way intrusions in Itaúna	2 un	Itaúna, MG	Itaúna, MG
		3117	Removal of right of way intrusions in Mateus Leme	2 un	Mateus Leme, MG	Mateus Leme, MG
		3118	Removal of right of way intrusions in Betim	2 un	Betim, MG	Betim, MG
		3120	Removal of right of way intrusion in Santa Luzia	1 un	Santa Luzia, MG	Santa Luzia, MG
		3210	Removal of right of way intrusions in Paraíba do Sul	2 un	Paraíba do Sul, RJ	Paraíba do Sul, RJ
		3211	Removal of right of way intrusions in Três Rios	6 un	Três Rios, RJ	Três Rios, RJ
		3232	Removal of level crossing in Carmo do Cajuru	1 un	Carmo do Cajuru, MG	Carmo do Cajuru, MG
		3233	Removal of level crossing in Juatuba	1 un	Juatuba, MG	Juatuba, MG
		3234	Removal of level crossings in Betim	17 un	Betim, MG	Betim, MG
		3241	Removal of level crossing in Curvelo	1 un	Curvelo, MG	Curvelo, MG
		3242	Removal of level crossing in Prudente de Morais	1 un	Prudente de Morais, MG	Prudente de Morais, MG
		3243	Removal of level crossing in Matozinhos	1 un	Matozinhos, MG	Matozinhos, MG
		3244	Removal of level crossing in Pedro Leopoldo	1 un	Pedro Leopoldo, MG	Pedro Leopoldo, MG
		3245	Removal of level crossings in Santa Luzia	2 un	Santa Luzia, MG	Santa Luzia, MG
		3260	Removal of level crossing in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI
		3261	Removal of level crossing in Caxias	1 un	Caxias, MA	Caxias, MA
		3262	Removal of level crossing in Itapecuru Mirim	1 un	Itapecuru Mirim, MA	Itapecuru Mirim, MA
		Recuperação de ferrovia	1396	Restoration of passenger train railway from Belo Horizonte to Conselheiro Lafaiete	149,0 km	Belo Horizonte, MG

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Restoration of railway	1407	Restoration of rail link from Barra do Piraí to Itaguaí	90,0 km	Barra do Piraí, RJ	Itaguaí, RJ
		1482	Restoration of passenger train railway from Codó to Timon	159,4 km	Codó, MA	Timon, MA
Waterway	Waterway adjustment	0008-INT	Adjustment of São Francisco River waterway from Pirapora to Juazeiro	1.372,0 km	Pirapora, MG	Juazeiro, BA
		1340-INT	Adjustment of Parnaíba River waterway from Alto Parnaíba to Luís Correia	1.262,0 km	Alto Parnaíba, MA	Luís Correia, PI
		1347	Adjustment of Mearim River waterway from Barra do Corda to Arari	520,0 km	Barra do Corda, MA	Arari, MA
		1351	Rock removal, signaling and beacon installation at Balsas River waterway from Balsas to Benedito Leite	255,0 km	Balsas, MA	Benedito Leite, MA
		2925	Adjustment of Rio Grande waterway from Barreiras to Barra	360,0 km	Barreiras, BA	Barra, BA
		2926	Adjustment of Corrente River waterway from Santa Maria da Vitória to Bom Jesus da Lapa	110,0 km	Santa Maria da Vitória, BA	Bom Jesus da Lapa, BA
		2927	Dredging and signaling of Paracatu River waterway from Brasilândia de Minas to Santa Fé de Minas	110,0 km	Brasilândia de Minas, MG	Santa Fé de Minas, MG
	Cargo riverboat	3051-INT	Dredging, signaling and beacon installation at Parnaíba River Delta waterway from Ilha Grande to Tutóia	78,0 km	Ilha Grande, PI	Tutóia, MA
		0385-INT	Construction of Boa Esperança sluice on Parnaíba River waterway	1 un	Guadalupe, PI	São João dos Patos, MA
		1296-INT	Construction of Cachoeira sluice on Parnaíba River waterway	1 un	Floriano, PI	Barão de Grajaú, MA
		1297-INT	Construction of Castelhana sluice on Parnaíba River waterway	1 un	Palmeirais, PI	Parnarama, MA
		1298-INT	Construction of Estreito sluice on Parnaíba River waterway	1 un	Amarante, PI	São Francisco do Maranhão, MA
		1299-INT	Construction of Ribeiro Gonçalves sluice on Parnaíba River waterway	1 un	Ribeiro Gonçalves, PI	Loreto, MA

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	1300-INT	Construction of Uruçuí sluice on Parnaíba River waterway	1 un	Uruçuí, PI	Benedito Leite, MA
		1301-INT	Construction of Pedra Branca sluice on São Francisco River waterway	1 un	Orocó, PE	Curaçá, BA
		1303-INT	Construction of Riacho Seco sluice on São Francisco River waterway	1 un	Santa Maria da Boa Vista, PE	Curaçá, BA
		1344	Construction of Santo Hipólito sluice on Rio das Velhas waterway	1 un	Santo Hipólito, MG	Santo Hipólito, MG
		2929	Construction of waiting garages at Sobradinho sluice on the São Francisco River waterway	2 un	Sobradinho, BA	Casa Nova, BA
		3053-INT	Construction of Canto do Rio sluice on Parnaíba River waterway	1 un	Santa Filomena, PI	Tasso Fragoso, MA
		3054	Construction of Taboa sluice on Balsas River waterway	1 un	Sambaíba, MA	Sambaíba, MA
Road	Road adjustment	2317	Implementation of additional lane on BR-030 in Boa Nova	18,0 km	Boa Nova, BA	Boa Nova, BA
		2324	Implementation of additional lane on BR-120 from Ponte Nova to Visconde do Rio Branco	46,0 km	Ponte Nova, MG	Visconde do Rio Branco, MG
		2326	Implementation of additional lane on BR-267 from Leopoldina to Caxambu	82,2 km	Leopoldina, MG	Caxambu, MG
		2328	Implementation of signs on BR-356 from Muriaé to Patrocínio do Muriaé	24,0 km	Muriaé, MG	Patrocínio do Muriaé, MG
		2329	Implementation of additional lane on BR-365 from João Pinheiro to Patos de Minas	100,0 km	João Pinheiro, MG	Patos de Minas, MG
		2343	Implementation of additional lane on BR-316 from Vila Nova do Piauí to Marcolândia	40,0 km	Vila Nova do Piauí, PI	Marcolândia, PI
		2477	Implementation of signs on PI-140 from Floriano to Canto do Buriti	163,1 km	Floriano, PI	Canto do Buriti, PI
		2560	Implementation of signs on BR-230 from Oeiras to Floriano	116,7 km	Oeiras, PI	Floriano, PI



Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2562	Implementation of signs on BR-343 from Lagoinha do Piauí to Floriano	151,0 km	Lagoinha do Piauí, PI	Floriano, PI
		2563	Implementation of additional lane on BR-407 from Geminiano to Acauã	140,0 km	Geminiano, PI	Acauã, PI
		2591	Implementation of signs on BR-135 road in São Luís	15,2 km	São Luís, MA	São Luís, MA
		2592	Implementation of additional lane on BR-135 road from Presidente Dutra to Sucupira do Riachão	196,0 km	Presidente Dutra, MA	Sucupira do Riachão, MA
		2625	Implementation of additional lane on MGT-462/BR-462 from Patrocínio to Perdizes	60,0 km	Patrocínio, MG	Perdizes, MG
		2652	Implementation of signs on PI-141 / BR-324 and PI-140 / BR-324 from Eliseu Martins to Dirceu Arcoverde	249,0 km	Eliseu Martins, PI	Dirceu Arcoverde, PI
		2689	Implementation of additional lane on MGT-354/BR-354 from Cruzília to Baependi	15,0 km	Cruzília, MG	Baependi, MG
		2691	Implementation of additional lane on MGT-383/BR-383 from São João del Rei to Cruzília	19,0 km	São João del Rei, MG	Cruzília, MG
		2692	Implementation of additional lane on MGT- 383 / BR-383 from São Brás do Suaçuí to São João del Rei	78,1 km	São Brás do Suaçuí, MG	São João del Rei, MG
		2694	Implementation of additional lane on MGT-120 / BR-120 from Dom Silvério to Ponte Nova	43,0 km	Dom Silvério, MG	Ponte Nova, MG
		2696	Implementation of additional lane on MG-123/BR-262 road from João Monlevade to Rio Piracicaba	10,0 km	João Monlevade, MG	Rio Piracicaba, MG
3453	Implementation of signs on BA-161 from Serra do Ramalho to Carinhanha	128,4 km	Serra do Ramalho, BA	Carinhanha, BA		

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3480	Implementation of additional lane on BR-020 from Fartura do Piauí to Bela Vista do Piauí	86,0 km	Fartura do Piauí, PI	Bela Vista do Piauí, PI
		3487	Implementation of signs on BR-235 road in Remanso	15,5 km	Remanso, BA	Remanso, BA
		3536	Implementation of additional lane on BR-407 from Afrânio to Petrolina	60,0 km	Afrânio, PE	Petrolina, PE
		3583	Implementation of signs on BR-135 from Peritoró to Presidente Dutra	117,6 km	Peritoró, MA	Presidente Dutra, MA
		3588	Implementation of signs on BR-222 from Chapadinha to Itapecuru Mirim	144,7 km	Chapadinha, MA	Itapecuru Mirim, MA
		3602	Implementation of signs on MAT-402/BR-402, BR-402 and MA-225 roads from Morros to Barreirinhas	157,7 km	Morros, MA	Barreirinhas, MA
		3604	Implementation of signs on MA-034 from Tutóia to Araióses	38,3 km	Tutóia, MA	Araióses, MA
		3639	Implementation of signs on BR-365 from Pirapora to João Pinheiro	117,5 km	Pirapora, MG	João Pinheiro, MG
		3659	Implementation of signs on BR-146 from Patos de Minas to Araxá	120,4 km	Patos de Minas, MG	Araxá, MG
		3663	Implementation of additional lane on MGT-267 / BR-267 from Cambuquira to Campanha	20,0 km	Cambuquira, MG	Campanha, MG
		3781	Implementation of additional lane on MGT-482 / BR-482 from Porto Firme to Conselheiro Lafaiete	60,0 km	Porto Firme, MG	Conselheiro Lafaiete, MG
		3782	Implementation of signs on BR-499 road in Santos Dumont	18,5 km	Santos Dumont, MG	Santos Dumont, MG
		3787	Implementation of signs on MG-262 and MG-329 roads from Rio Casca to Mariana	110,0 km	Rio Casca, MG	Mariana, MG
		3793	Implementation of signs on MG-605 in Januária	11,5 km	Januária, MG	Januária, MG

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construction	0932	Construction of BR-235 from Caracol to Bom Jesus	150,7 km	Caracol, PI	Bom Jesus, PI
		0948	Construction of BR-342 from Malhada to Sebastião Laranjeiras	60,1 km	Malhada, BA	Sebastião Laranjeiras, BA
		2195	Construction of PI-144 from São Raimundo Nonato to Dom Inocêncio	78,0 km	São Raimundo Nonato, PI	Dom Inocêncio, PI
		3519	Construction of crossing between BR-235 and BR-407 in Juazeiro	9,3 km	Juazeiro, BA	Juazeiro, BA
		3769	Construction of crossing on BR-440 in Juiz de Fora	6,3 km	Juiz de Fora, MG	Juiz de Fora, MG
	Road duplication	0074	Duplication of BR-393 from Sapucaia to Volta Redonda	181,4 km	Sapucaia, RJ	Volta Redonda, RJ
		2207	Duplication of BR-135 from Bacabeira to Miranda do Norte	102,2 km	Bacabeira, MA	Miranda do Norte, MA
		2298	Duplication of BR-365 from Patos de Minas to Uberlândia	197,4 km	Patos de Minas, MG	Uberlândia, MG
		2313	Duplication of BR-356 from Nova Lima to Mariana	83,4 km	Nova Lima, MG	Mariana, MG
		2369	Duplication of BR-365 from Montes Claros to Pirapora	151,1 km	Montes Claros, MG	Pirapora, MG
		2561	Duplication of BR-316 from Teresina to Agricolândia	75,9 km	Teresina, PI	Agricolândia, PI
		2609	Duplication of BR-430 from Bom Jesus da Lapa to Caetité	136,0 km	Bom Jesus da Lapa, BA	Caetité, BA
		3460	Duplication of BR-030 road from Malhada to Tanhaçu	267,8 km	Malhada, BA	Tanhaçu, BA
		3479	Duplication of BR-020 from Simplício Mendes to Geminiano	128,2 km	Simplício Mendes, PI	Geminiano, PI
		3483	Duplication of BR-230 from Vila Nova do Piauí to Dom Expedito Lopes	98,6 km	Vila Nova do Piauí, PI	Dom Expedito Lopes, PI
		3529	Duplication of PE-555/ BR-122 road in Lagoa Grande	34,5 km	Lagoa Grande, PE	Lagoa Grande, PE

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	3531	Duplication of BR-122 and BR-428 from Cabrobó to Petrolina	183,8 km	Cabrobó, PE	Petrolina, PE
		3535	Duplication of PE-647/ BR-235 road in Petrolina	21,7 km	Petrolina, PE	Petrolina, PE
		3637	Duplication of BR-050 road in Uberlândia	11,4 km	Uberlândia, MG	Uberlândia, MG
		3662	Duplication of MGT-267 / BR-267 and MGT-267 / BR-383 from Caxambu to Cambuquira	40,8 km	Caxambu, MG	Cambuquira, MG
	Paving of road	0818	Paving of BR-030 from Cocos to Carinhanha	114,2 km	Cocos, BA	Carinhanha, BA
		0819	Paving of BR-030 from Tanhaçu to Boa Nova	116,4 km	Tanhaçu, BA	Boa Nova, BA
		0933	Paving of BR-235 from Remanso to Campo Alegre de Lourdes	109,6 km	Remanso, BA	Campo Alegre de Lourdes, BA
		2205	Paving of PI-459 from Queimada Nova to Paulistana	80,0 km	Queimada Nova, PI	Paulistana, PI
		2855	Paving of MA-364 / BR-135 in São João dos Patos	30,0 km	São João dos Patos, MA	São João dos Patos, MA
		3462	Paving of BR-030 from Boa Nova to Maraú	186,3 km	Boa Nova, BA	Maraú, BA
		3496	Paving of BAT-324 / BR-324 in Remanso	39,3 km	Remanso, BA	Remanso, BA
		Restoration of pavement on road	2502	Restoration of pavement on LMG-633 from Jaíba to Itacarambi	47,2 km	Jaíba, MG
	2503		Restoration of pavement on MG-123 from Rio Piracicaba to Dom Silvério	44,5 km	Rio Piracicaba, MG	Dom Silvério, MG
	2512		Restoration of pavement on PI-141 from Canto do Buriti to São João do Piauí	79,3 km	Canto do Buriti, PI	São João do Piauí, PI
	2604		Restoration of pavement on BR-030 road from Carinhanha to Malhada	26,8 km	Carinhanha, BA	Malhada, BA
	2621		Restoration of pavement on MGT-356/BR-356 and BR-356 roads from Coimbra to Muriaé	71,3 km	Coimbra, MG	Muriaé, MG
	2628		Restoration of pavement on MGT-496 / BR-496 from Pirapora to Corinto	135,9 km	Pirapora, MG	Corinto, MG

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	2686	Restoration of pavement on BMGT-265 / BR-265 from Ubá to Mercês	67,8 km	Ubá, MG	Mercês, MG
		2693	Restoration of pavement on MG-447 / BR-120 from Visconde do Rio Branco to Ubá	20,9 km	Visconde do Rio Branco, MG	Ubá, MG
		3486	Restoration of pavement on BR-235 from Casa Nova to Remanso	174,0 km	Casa Nova, BA	Remanso, BA
		3501	Restoration of pavement on BAT-160/BR-330 and BAT-330/BR-330 from Xique-Xique to Gentio do Ouro	91,9 km	Xique-Xique, BA	Gentio do Ouro, BA
		3502	Restoration of pavement on PI-218/BR-135 from Guadalupe to Jerumenha	38,8 km	Guadalupe, PI	Jerumenha, PI
		3578	Restoration of pavement on BR-135 from São Luís to Bacabeira	25,1 km	São Luís, MA	Bacabeira, MA
		3582	Restoration of pavement on BR-135 from Miranda do Norte to Alto Alegre do Maranhão	72,5 km	Miranda do Norte, MA	Alto Alegre do Maranhão, MA
		3589	Restoration of pavement on MA-034/BR-222, MA-230/BR-222 and MA-234/BR-222 from Brejo to Chapadinha	63,4 km	Brejo, MA	Chapadinha, MA
		3592	Restoration of pavement on BR-230 from Barão de Grajaú to Sucupira do Riachão	56,9 km	Barão de Grajaú, MA	Sucupira do Riachão, MA
		3601	Restoration of pavement on MA-110 / BR-402 from Bacabeira to Morros	37,1 km	Bacabeira, MA	Morros, MA
		3603	Restoration of pavement on MA-315 from Paulino Neves to Tutóia	28,5 km	Paulino Neves, MA	Tutóia, MA
		3646	Restoration of pavement on BR-120, MG-285/BR-120, MGT-120/BR-120 and MG-285 from Piraúba to Leopoldina	65,1 km	Piraúba, MG	Leopoldina, MG
		3783	Restoration of pavement on MG-164 and MG-420 from Curvelo to Martinho Campos	71,6 km	Curvelo, MG	Martinho Campos, MG
3790	Restoration of pavement on MG-448 from Mercês to Barbacena	27,7 km	Mercês, MG	Barbacena, MG		

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal adjustment	0398	Adjustment of Pirapora waterway cargo terminal	1 un	Pirapora, MG	Pirapora, MG
		0432	Expansion of intermodal cargo terminal in Petrolina	1 un	Petrolina, PE	Petrolina, PE
		1855	Adjustment of Itacarambi waterway terminal	1 un	Itacarambi, MG	Itacarambi, MG
		1856	Adjustment of Manga waterway terminal	1 un	Manga, MG	Manga, MG
		1857	Adjustment of Matias Cardoso waterway terminal	1 un	Matias Cardoso, MG	Matias Cardoso, MG
		1860	Adjustment of São Romão waterway terminal	1 un	São Romão, MG	São Romão, MG
		2386	Adjustment of waterway cargo terminal in Juazeiro	1 un	Juazeiro, BA	Juazeiro, BA
	Terminal construction	0348	Construction of waterway cargo terminal in Barra	1 un	Barra, BA	Barra, BA
		0397	Construction of waterway cargo terminal in Januária	1 un	Januária, MG	Januária, MG
		0433	Construction of intermodal cargo terminal in Teresina	1 un	Teresina, PI	Teresina, PI
		0434	Construction of rail freight terminal in Eliseu Martins	1 un	Eliseu Martins, PI	Eliseu Martins, PI
		1790	Construction of waterway cargo terminal in Barra do Corda	1 un	Barra do Corda, MA	Barra do Corda, MA
		1822	Construction of waterway cargo terminal in Sento Sé	1 un	Sento Sé, BA	Sento Sé, BA
		1823	Construction of waterway cargo terminal in Serra do Ramalho	1 un	Serra do Ramalho, BA	Serra do Ramalho, BA
		1824	Construction of waterway cargo terminal in Malhada	1 un	Malhada, BA	Malhada, BA
		1825	Construction of waterway cargo terminal in São Francisco	1 un	São Francisco, MG	São Francisco, MG
		1826	Construction of waterway cargo terminal in Xique-Xique	1 un	Xique-Xique, BA	Xique-Xique, BA
		1854	Construction of waterway cargo terminal in Ibiaí	1 un	Ibiaí, MG	Ibiaí, MG

Table 17 - List of projects of the Northeast-Southeast Corridor (E8)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1858	Construction of waterway cargo terminal in Jaíba	1 un	Jaíba, MG	Jaíba, MG
		1859	Construction of waterway cargo terminal in Pedras de Maria da Cruz	1 un	Pedras de Maria da Cruz, MG	Pedras de Maria da Cruz, MG
		1871	Construction of waterway cargo terminal in Remanso	1 un	Remanso, BA	Remanso, BA
		1875	Construction of waterway cargo terminal in Bom Jesus da Lapa	1 un	Bom Jesus da Lapa, BA	Bom Jesus da Lapa, BA
		1876	Construction of waterway cargo terminal in Carinhanha	1 un	Carinhanha, BA	Carinhanha, BA
		2848	Construction of parking lot for cargo vehicles in Greater São Luís Metropolitan Region	1 un	São Luís, MA	São Luís, MA
		3549	Construction of Caju Logistical and Industrial District	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ

### 5.8.2 ESTIMATE OF INVESTMENT IN PROJECTS OF THE NORTHEAST-SOUTHEAST CORRIDOR (E8)

To enable implementation of the projects proposed for the Northeast-Southeast Corridor (E8), minimum investments by type of intervention are estimated in Table 18.

Table 18 - Minimum Investment - Northeast-Southeast Corridor (E8)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	11 un	1.757.593.904,62
	Airport construction	10 un	61.639.143,03
Rail	Railway construction	3.734,4 km	51.704.537.373,00
	Elimination of bottlenecks	119 un	501.604.292,24
	Restoration of railway	398,4 km	1.601.492.441,73
Waterway	Waterway adjustment	4.067,0 km	4.245.551.051,30
	Cargo riverboat	13 un	5.658.678.247,71
Road	Road adjustment	2.772,4 km	3.781.563.621,67
	Road construction	304,4 km	1.234.576.991,41
	Road duplication	1.714,2 km	19.610.757.181,36
	Paving of road	675,8 km	3.513.240.757,29
	Restoration of pavement on road	1.246,3 km	4.103.715.510,92
Terminal	Terminal adjustment	7 un	301.207.610,29
	Terminal construction	18 un	10.431.992.622,19
<b>Total</b>			<b>108.508.150.748,76</b>

## 5.9 CABOTAGE CORRIDOR (E9)

The Cabotage Corridor (E9) consists of the interconnection of the main seaports along the Brazilian coast by way of the various possible trade routes. The corridor extends from the Port of Santana, AP to the Port of Rio Grande, RS. Among the infrastructures brought together by this corridor, waterway transport operations are provided by cabotage and long-haul navigation for the various types of cargo – general cargo, container cargo, dry bulk and liquid bulk and gas bulk cargo.

The corridor's route encompass large ports, such as the ports of Santos, SP, Itaguaí, RJ, Paranaguá, PR, Rio Grande, RS and Suape, in Ipojuca, PE, whose movements in 2017 exceeded over 20 million tons each and together represented 70% of the total cargo handled at organized public ports. The ports of Itaqui, in São Luís, MA, Vila do Conde, in Barcarena, PA, and São Francisco do Sul, SC, which in 2017 handled more than 10 million tons each, are also included in this corridor, among others.

Figure 16 displays the route of the Cabotage Corridor, which demonstrates the significant economic potential of the pathways of this mode of transport. Along its extent, the corridor encompasses the areas with the highest population concentrations in the country, among



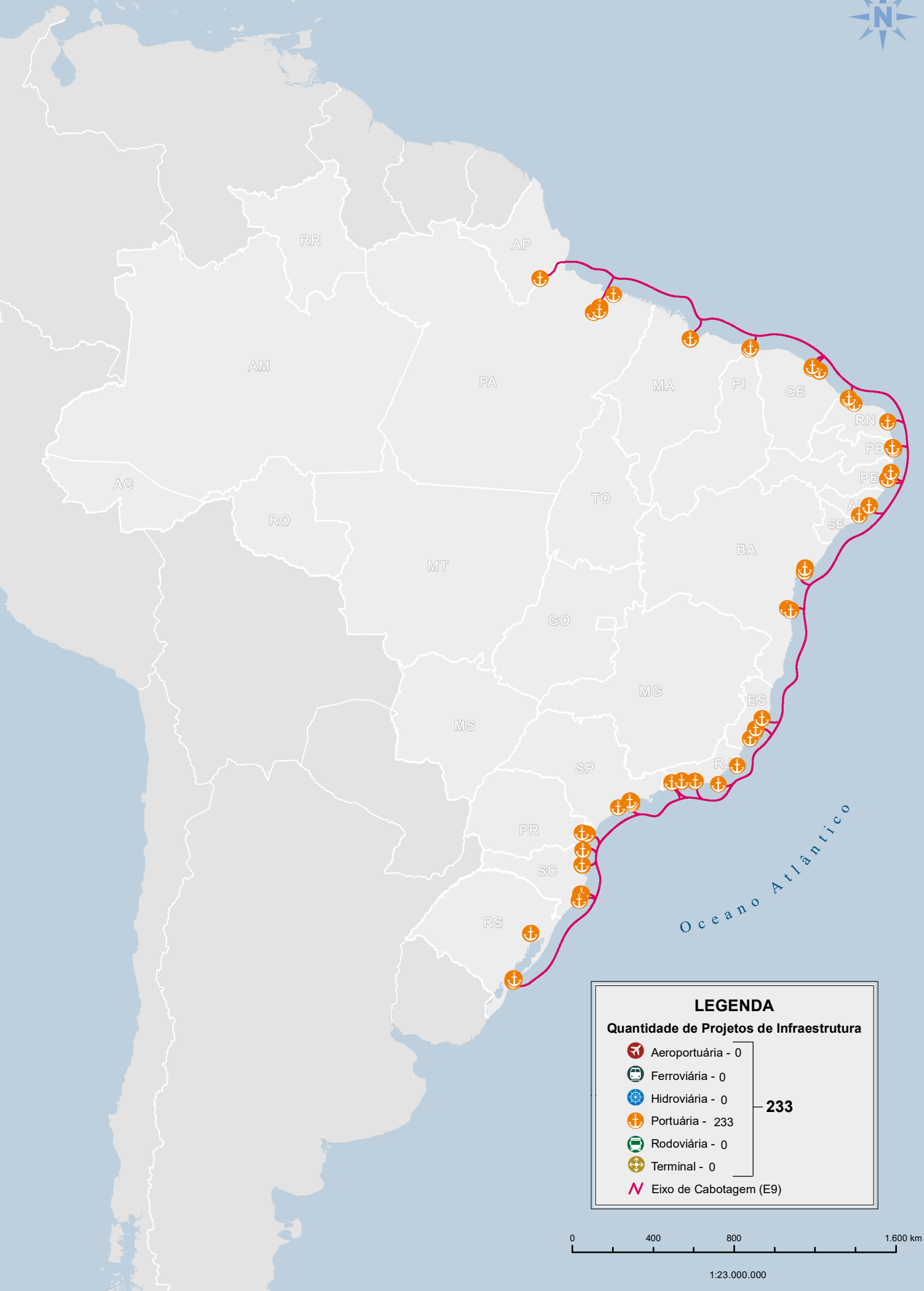
which are state capital and urban centers near the coast. With the increase of the Brazilian Merchant Navy fleet and the supply and frequency of vessels in the Norte-South direction, in addition to improvements in port infrastructure, obtaining more competitive freight rates will be possible, which will attract more cargo from the production centers of manufactured consumer goods.

On its route, the Cabotage Corridor (E9) integrates essentially with all other corridors, directly or indirectly. The Cabotage Corridor (E9) directly connects with the North-South Corridor (E3) in Belém, PA; the Amazon Corridor (E4) in Macapá, AP; the North-Southeast Corridor (E6) in Santos, SP; and with the Northeast-Southeast Corridor (E8) in São Luís, MA and Rio de Janeiro, RJ. From the Cabotage Corridor, it is also possible to access the Northeast-South Corridor (E1) in Fortaleza, CE and Rio Grande, RS; the Coastal Corridor (E2), which passes near the country's main seaports, from Belém, PA to Porto Alegre, RS; and the East-West Corridor (E7) in Salvador, BA.

The Cabotage Corridor (E9) is displayed in Figure 16, along with the projects allocated to it.

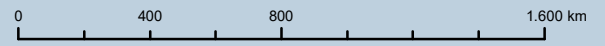


Figure 16 - Cabotage Corridor (E9)



LEGENDA	
<b>Quantidade de Projetos de Infraestrutura</b>	
	Aeroportuária - 0
	Ferroviária - 0
	Hidroviária - 0
	Portuária - 233
	Rodoviária - 0
	Terminal - 0
	Eixo de Cabotagem (E9)

**233**



1:23.000.000

### 5.9.1 PROJECTS OF THE CABOTAGE CORRIDOR (E9)

The Cabotage Corridor (E9) links the main seaports of Brazil and as such, all projects allocated to this corridor are related to port infrastructure.

In terms of number of projects, it was found that the ports with the largest number of projects listed generally coincide with the ports with the highest recorded movements. As such, featured projects include those proposing adjustment and expansion of terminals, as well as the land and waterway access roads in the ports of Santos, SP, Paranaguá, PR, Rio Grande, RS and Itaquí, in São Luís, MA.

In addition, projects proposing the construction of new ports in the states of Alagoas, Espírito Santo, Pará, Paraíba, Rio de Janeiro and São Paulo are also included.

Finally, one of the factors that can determine a port's competitiveness is its ability to accommodate larger, more modern ships that have large loading capacities. For this reason, dredging interventions are essential, notable among which are the dredging of access channels and berths of the ports of Paranaguá, PR, Rio Grande, RS and Suape, in Ipojuca, PE.

Table 19 presents the projects of the Cabotage Corridor.



Table 19 - List of projects of the Cabotage Corridor (E9)

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
of Itaguaí	Waterway access to port	0012	Dredging of access channel and mooring berths at Port of Santos	8.933.624,4 m³	Santos, SP	Santos, SP
		0053	Deepening of Port of Ilhéus via dredging	2.600.000,0 m³	Ilhéus, BA	Ilhéus, BA
		0149	Dredging of access channel, turning basin and berths at Port of Maceió	1.100.000,0 m³	Maceió, AL	Maceió, AL
		0238	Dredging of access channel and turning basin at Port of Cabedelo	1.996.000,0 m³	Cabedelo, PB	Cabedelo, PB
		0240	Rock removal and dredging of access channel at Port of Laguna	100.000,0 m³	Laguna, SC	Laguna, SC
		0253	Dredging of inner channel, turning basin and berths at Port of Itaqui in São Luís	38.752,0 m³	São Luís, MA	São Luís, MA
		0966	Deepening dredging of access channel to salt terminal at Port of Areia Branca	2.680.662,4 m³	Areia Branca, RN	Areia Branca, RN
		1899	Deepening of Port of Barra do Riacho in Aracruz via dredging	8.522.326,9 m³	Aracruz, ES	Aracruz, ES
		1920	Deepening dredging of access channel and berths at Port of Angra dos Reis	8.349.526,2 m³	Angra dos Reis, RJ	Angra dos Reis, RJ
		1943	Dredging of access channel at Port of Belém	4.500.000,0 m³	Belém, PA	Belém, PA
		1957	Rock removal at south berth of Liquid Bulk Cargo Terminal at Port of Aracaju in Candeias	526.779,2 m³	Candeias, BA	Candeias, BA
		1988	Deepening dredging of external channel of Port of Suape in Ipojuca	4.764.000,0 m³	Ipojuca, PE	Ipojuca, PE
		1989	Dredging of berths 6 and 7 at Port of Suape in Ipojuca	4.423.758,7 m³	Ipojuca, PE	Ipojuca, PE
		1992	Adjustment of waterway access to Port of Itaguaí	5.060.318,9 m³	Itaguaí, RJ	Itaguaí, RJ
2004	Dredging of access channel at Port of Itajaí	4.000.000,0 m³	Itajaí, SC	Itajaí, SC		
2012	Deepening of Port of Luís Correia via dredging	982.081,0 m³	Luís Correia, PI	Luís Correia, PI		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Waterway access to port	2037	Deepening dredging of access channels and turning basin at Port of Paranaguá	14.200.000,0 m <sup>3</sup>	Paranaguá, PR	Paranaguá, PR
		2038	Rock removal between access channel and turning basin at Port of Paranaguá	997.625,0 m <sup>3</sup>	Paranaguá, PR	Paranaguá, PR
		2070	Dredging of access channel at Port of Rio Grande	18.000.000,0 m <sup>3</sup>	Rio Grande, RS	Rio Grande, RS
		2110	Rock removal of turning basin at Port of São Francisco do Sul	65.000,0 m <sup>3</sup>	São Francisco do Sul, SC	São Francisco do Sul, SC
		2856	Dredging and rock removal of turning basin at Port of Itajaí - Stage 1	3.399.911,4 m <sup>3</sup>	Itajaí, SC	Itajaí, SC
		2857	Dredging and rock removal of turning basin at Port of Itajaí - Stage 2	745.206,3 m <sup>3</sup>	Itajaí, SC	Itajaí, SC
		2879	Maintenance dredging at Port of Imbituba	500.000,0 m <sup>3</sup>	Imbituba, SC	Imbituba, SC
		2986	Dredging of access channel to passenger terminal of Port of Mucuripe in Fortaleza	500.000,0 m <sup>3</sup>	Fortaleza, CE	Fortaleza, CE
	3036	Maintenance dredging of access channels, turning basins, public berths and anchorages of ports of Paranaguá and Antonina	21.930.000,0 m <sup>3</sup>	Antonina, PR	Paranaguá, PR	
	3043	Deepening dredging of Dry Bulk Cargo Terminal I and Liquid Bulk Cargo Terminal at Port of Aratu in Candeias	115.026,3 m <sup>3</sup>	Candeias, BA	Candeias, BA	
	Land access to port	0040	Construction of rail access to Port of Dias Branco in Salvador	7,5 km	Simões Filho, BA	Salvador, BA
		0106	Adjustment and construction of road access to Port of Rio de Janeiro by Via Alternativa	5,9 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		0108	Adjustment of road access to Port of Itajaí via SC-412	25,4 km	Itajaí, SC	Gaspar, SC
		1925	Construction of road access to Port of Antonina via BR-277	11,0 km	Antonina, PR	Morretes, PR

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Land access to port	1949	Adjustment of road access to Port of Cabedelo via BR-230	26,6 km	João Pessoa, PB	Cabedelo, PB
		1953	Adjustment of road access to Port of Aratu in Candeias via BA-524	9,0 km	Candeias, BA	Candeias, BA
		1966	Construction of road and rail access to Porto Sul in Ilhéus	43,5 km	Ilhéus, BA	Ilhéus, BA
		1973	Construction of road access ramp to Port of Imbituba	1,0 km	Imbituba, SC	Imbituba, SC
		1974	Adjustment of north access to Port of Imbituba	4,8 km	Imbituba, SC	Imbituba, SC
		1981	Restoration of internal roads and access gatehouses at Port of Imbituba	5,5 km	Imbituba, SC	Imbituba, SC
		1983	Construction of rail access to Port of Suape in Ipojuca	13,4 km	Cabo de Santo Agostinho, PE	Ipojuca, PE
		2002	Construction of Port Expressway to Port of Itajaí	10,0 km	Itajaí, SC	Itajaí, SC
		2017	Restoration of rail route inside Port of Maceió	1,0 km	Maceió, AL	Maceió, AL
		2041	Restoration of rail access points and rail yards at Port of Paranaguá	12,3 km	Paranaguá, PR	Paranaguá, PR
		2042	Adjustment of road access to Port of Paranaguá	17,0 km	Paranaguá, PR	Paranaguá, PR
		2046	Paving of access road to Port of Porto Alegre	2,8 km	Porto Alegre, RS	Porto Alegre, RS
		2068	Construction of dry land connection between Rio Grande and São José do Norte	6,0 km	Rio Grande, RS	São José do Norte, RS
		2082	Restoration of rail access to Port of Salvador	2,0 km	Salvador, BA	Salvador, BA
		2087	Construction and restoration of rail access to Port of Santana	3,3 km	Santana, AP	Santana, AP
2098	Construction of Santos-Guarujá Underwater Tunnel at Port of Santos	6,2 km	Santos, SP	Guarujá, SP		
2106	Construction of ring road for access to Port of São Francisco do Sul	1,4 km	São Francisco do Sul, SC	São Francisco do Sul, SC		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Land access to port	2113	Construction of road access over breakwater at Port of Pecém in São Gonçalo do Amarante	1,0 km	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2117	Construction of connector bridge to breakwater at Port of Pecém in São Gonçalo do Amarante	1,5 km	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2119	Adjustment of road access to Port of Pecém via CE-155 in São Gonçalo do Amarante	20,1 km	Caucaia, CE	São Gonçalo do Amarante, CE
		2132	Construction of south road access to Port of Itaqui in São Luís	2,0 km	São Luís, MA	São Luís, MA
		2827	Construction of Port-Industry Arterial Road at Port of Santos	11,2 km	Santos, SP	Santos, SP
		2860	Construction of flyover (65 km) and adjustment of Alemoa Flyover allowing access to Port Beltway on right bank of Port of Santos	3,0 km	Santos, SP	Santos, SP
		2863	Construction of Avenida Perimetral Direita at Port of Santos	9,0 km	Santos, SP	Santos, SP
		2865	Construction of Avenida Perimetral Esquerda at Port of Santos	4,0 km	Guarujá, SP	Guarujá, SP
		2869	Adjustment of road access to Barnabé Island in Port of Santos	3,3 km	Santos, SP	Santos, SP
		2881	Construction of internal road and new access gatehouse to Port of Imbituba	1,2 km	Imbituba, SC	Imbituba, SC
		2886	Paving and restoration of internal at Port of Santana	1,0 km	Santana, AP	Santana, AP
		2890	Adjustment of the internal routes of Port of Belém	5,0 km	Belém, PA	Belém, PA
		2910	Paving of internal roads at Port of Maceió	1,1 km	Maceió, AL	Maceió, AL
		2924	Adjustment of road access to Capuaba port terminal at Port of Vitória	3,0 km	Vitória, ES	Vitória, ES
		2933	Construction of Portal do Principe road access to Port of Vitória	1,0 km	Vitória, ES	Vitória, ES

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Land access to port		2974	Adjustment and restoration of internal roads at Port of Cabedelo	2,0 km	Cabedelo, PB	Cabedelo, PB		
		3010	Construction of road access to Port of Pecém via CE-576 in São Gonçalo do Amarante	8,0 km	São Gonçalo do Amarante, CE	Caucaia, CE		
		3062	Construction and restoration of internal rail lines of Port of Rio de Janeiro	77,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ		
		3065	Adjustment and restoration of internal roads of Port of Salvador	4,8 km	Salvador, BA	Salvador, BA		
		3327	Adjustment and restoration of internal roads of Port of Recife	0,5 km	Recife, PE	Recife, PE		
		3575	Adjustment of road access to Port of Itaqui in São Luís via BR-135	6,3 km	São Luís, MA	São Luís, MA		
		3727	Restoration of road access to Port of Itajaí via BR-101	6,5 km	Itajaí, SC	Itajaí, SC		
	Port		0198	Expansion of Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE	
			0630	Adjustment of berth at Port of Areia Branca	1 un	Areia Branca, RN	Areia Branca, RN	
			1919	Construction of third berth and its back-up area at Port of Angra dos Reis	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ	
			1921	Revitalization of port area at Port of Angra dos Reis	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ	
		Port area		1923	Construction of customs dock at Port of Antonina	1 un	Antonina, PR	Antonina, PR
				1924	Adjustment of public pier at Port of Antonina	1 un	Antonina, PR	Antonina, PR
				1931	Adjustment of Grain Terminal at Porto do Forno in Arraial do Cabo	1 un	Arraial do Cabo, RJ	Arraial do Cabo, RJ
			1932	Construction of berth at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA	
			1938	Construction of roll-on/roll-off ramp at Port of Belém	1 un	Belém, PA	Belém, PA	
		1939	Adjustment of berth at Port of Belém	1 un	Belém, PA	Belém, PA		



Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	1940	Expansion of container terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		1944	Adjustment of Outeiro Terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		1947	Adjustment of port area of Port of Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		1948	Adjustment of dock surrounding Port of Cabedelo	3 un	Cabedelo, PB	Cabedelo, PB
		1950	Expansion of Dry Bulk Cargo Terminal at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1951	Construction of mooring structure and storage facilities of grain terminal at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1954	Construction of sorting yard at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1955	Expansion of Gas Products Terminal at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1956	Expansion of Liquid Bulk Cargo Terminal and construction of back-up area at Port of Aratu in Candeias	2 un	Candeias, BA	Candeias, BA
		1965	Northern expansion of dock and construction of its back-up area at Port of Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1967	Southern expansion of dock and construction of its back-up area at Port of Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1971	Adjustment of berths at Port of Ilhéus	3 un	Ilhéus, BA	Ilhéus, BA
		1972	Construction of berth at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		1975	Construction of road sorting yard at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		1976	Expansion of harbor mole at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
1977	Construction of back-up area of berth 2 at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	1978	Expansion of berth 3 and its back-up area at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		1980	Adjustment of berths at Port of Imbituba	4 un	Imbituba, SC	Imbituba, SC
		1984	Construction of container handling berth at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1991	Construction of port logistics support area (AALP) at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		1995	Expansion of coal terminal at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		2005	Revitalization of port area at Port of Itajaí	1 un	Itajaí, SC	Itajaí, SC
		2006	Adjustment of berths 3 and 4 at Porto of Itajaí	2 un	Itajaí, SC	Itajaí, SC
		2008	Construction of berths at Port of Laguna	2 un	Laguna, SC	Laguna, SC
		2014	Implementation of new equipment at Port of Maceió	1 un	Maceió, AL	Maceió, AL
		2015	Adjustment of mole at Port of Maceió	1 un	Maceió, AL	Maceió, AL
		2016	Adjustment of berths at Port of Maceió	4 un	Maceió, AL	Maceió, AL
		2022	Construction of berth 4 with back-up area at Port of Natal	1 un	Natal, RN	Natal, RN
		2027	Expansion and adjustment of West Pier at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2029	Construction of berths at Port of Paranaguá	2 un	Paranaguá, PR	Paranaguá, PR
		2030	Construction of customs dock at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2031	Construction of silos at Port of Paranaguá	2 un	Paranaguá, PR	Paranaguá, PR
		2033	Construction of an F-shaped pier at West Pier of Port of Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR
		2034	Expansion of screening yard at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2035	Construction of T-shaped pier on Export Corridor at Port of Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2039	Adjustment and expansion of liquid bulk pier at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2044	Implementation of port facilities at Navegantes Pier in Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2045	Expansion of Marcílio Dias Pier at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2048	Adjustment of Mauá, Navegantes and Marcílio Dias piers at Port of Porto Alegre	3 un	Porto Alegre, RS	Porto Alegre, RS
		2049	Adjustment of surface of Navegantes Pier at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2053	Construction of dock surrounding berths 0 and 1 at Port of Recife	2 un	Recife, PE	Recife, PE
		2054	Adjustment of berths 7 to 16 at Port of Recife	10 un	Recife, PE	Recife, PE
		2055	Adjustment of berths 2 to 6 at Port of Recife	5 un	Recife, PE	Recife, PE
		2060	Adjustment of Gamboa Pier at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		2064	Construction of new berth at Super Port of Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2066	Construction of multipurpose pier at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2067	Construction of berthing dolphin at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2072	Adjustment of berth at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2073	Adjustment of East Mole at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2075	Construction of two mooring berths at Port of Salvador	2 un	Salvador, BA	Salvador, BA
		2076	Expansion of breakwater at Port of Salvador	1 un	Salvador, BA	Salvador, BA
2081	Adjustment of mooring structure of commercial wharf at southern tip of Port of Salvador	1 un	Salvador, BA	Salvador, BA		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Portuária	Área portuária	2084	Implementation of port equipment at Port of Santana	1 un	Santana, AP	Santana, AP
		2085	Construction of pier at Port of Santana	7 un	Santana, AP	Santana, AP
		2096	Construction of pier, berths and access bridge to Alamo Terminal at Port of Santos	1 un	Santos, SP	Santos, SP
		2101	Expansion and adjustment of Outeirinhos Pier at Port of Santos	1 un	Santos, SP	Santos, SP
		2104	Adjustment of pier at Barnabé Island in Port of Santos	1 un	Santos, SP	Santos, SP
		2107	Construction of berth 401 at Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		2111	Revitalization of port area of Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		2115	Construction of berths for liquid and dry bulk cargo at Port of Pecém in São Gonçalo do Amarante	6 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2116	Implementation of equipment at Port of Pecém in São Gonçalo do Amarante	3 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2118	Construction of breakwater at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2122	Expansion of Multiple Use Terminal at Port of Pecém in São Gonçalo do Amarante	3 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2123	Expansion of port area of Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2124	Construction of container terminal at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2125	Implementation and modernization of equipment at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
2127	Construction of berths 86, 89, 90, 91, 92, 93 and 94 at Porto of Itaqui in São Luís	7 un	São Luís, MA	São Luís, MA		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2128	Construction of berthing dolphin at the oil pier at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
		2130	Construction of back-up area of berths 104 and 105 at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
		2131	Construction of berths 95, 96 and 97 and their back-up areas at Port of Itaqui in São Luís	3 un	São Luís, MA	São Luís, MA
		2133	Construction of berths 98 and 99 and their back-up areas at Port of Itaqui in São Luís	2 un	São Luís, MA	São Luís, MA
		2134	Construction of back-up area of berths 100 and 101 at Port of Itaqui in São Luís	2 un	São Luís, MA	São Luís, MA
		2139	Expansion of mooring structure of berth 905 at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2140	Implementation of signs and beacon installation at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2142	Construction of berth with back-up area at Atalaia dolphins in Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2146	Expansion of Vila Velha terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2858	Implementation of VTMISS at Port of Itajaí	1 un	Itajaí, SC	Itajaí, SC
		2867	Implementation of VTMISS at Port of Santos	1 un	Santos, SP	Santos, SP
		2868	Implementation of Intelligent Port Logistics Chain (Portolog) at Port of Santos	1 un	Santos, SP	Santos, SP
		2871	Construction of port back-up area in Guarujá	1 un	Guarujá, SP	Guarujá, SP
		2873	Construction of new berths in São José do Norte at Port of Rio Grande	1 un	São José do Norte, RS	São José do Norte, RS
		2877	Implementation of VTMISS at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
2887	Implementation of VTMISS at Port of Belém	1 un	Belém, PA	Belém, PA		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2905	Implementation of VTMISS at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		2906	Expansion of GLP terminal at Miramar Terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		2917	Implementation of VTMISS at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
		2930	Expansion of berths 103 and 104 at Commercial Wharf of Port of Vitória	2 un	Vitória, ES	Vitória, ES
		2931	Construction of heavy cargo storage yard at Commercial Wharf of Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2932	Construction of port logistics support area (AALP) at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2952	Adjustment of vehicle terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		2953	Implementation of VTMISS at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		2955	Adjustment of liquid bulk cargo terminals at Miramar Terminal at Port of Belém	5 un	Belém, PA	Belém, PA
		2957	Adjustment of liquid bulk terminal on Barnabé Island at Port of Santos	1 un	Santos, SP	Santos, SP
		2969	Adjustment of liquid bulk cargo terminals at Port of Cabedelo	2 un	Cabedelo, PB	Cabedelo, PB
		2989	Expansion of protective mole at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		2991	Implementation of VTMISS at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		3050	Implementation of VTMISS at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		3058	Implementation of VTMISS at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
3060	Adjustment of Liquid Bulk Terminal at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	3063	Implementation of VTMS at Port of Salvador	1 un	Salvador, BA	Salvador, BA
		3064	Implementation of VTMS at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		3314	Expansion of south yard of Port of Natal	1 un	Natal, RN	Natal, RN
		3316	Expansion of north yard of Port of Natal	1 un	Natal, RN	Natal, RN
		3326	Adjustment of mooring structure of berths 7 to 10 at Port of Recife	4 un	Recife, PE	Recife, PE
	0320	Construction of Port of Espadarte in Curuçá	1 un	Curuçá, PA	Curuçá, PA	
	1918	Construction of supply boat terminal at Port of Praia do Além in Anchieta	1 un	Anchieta, ES	Anchieta, ES	
	1927	Construction of passenger terminal at Port of Antonina	1 un	Antonina, PR	Antonina, PR	
	1929	Construction of container and general cargo terminal at Port of Barra do Riacho in Aracruz	1 un	Aracruz, ES	Aracruz, ES	
	1933	Construction of liquid bulk cargo terminal at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA	
	Port construction	1935	Construction of Multiple Use Terminal 2 at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1936	Construction of steel plate and coil terminal at Port of Vila do Conde in Barcar	1 un	Barcarena, PA	Barcarena, PA
		1937	Construction of coal terminal at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1945	Construction of multiple use terminal at Port of Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		1946	Construction of passenger terminal at Port of Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		1958	Construction of Port of Coruripe	1 un	Coruripe, AL	Coruripe, AL

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port construction	1961	Construction of intermodal cargo terminal at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		1964	Construction of terminal at Guarujá	1 un	Santos, SP	Santos, SP
		1969	Construction of passenger terminal at Port of Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1979	Construction of terminal at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		1985	Construction of multiple use terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1986	Construction of container terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1987	Construction of dry bulk cargo terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1996	Construction of grain terminal at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		1998	Construction of liquid bulk cargo terminal at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		1999	Construction of steel plate export terminal at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		2003	Construction of container and vehicle terminal at Port of Itajaí	2 un	Itajaí, SC	Itajaí, SC
		2009	Construction of deepwater port in Lucena	1 un	Lucena, PB	Lucena, PB
		2011	Construction of freight terminals at Port of Luís Correia	4 un	Luís Correia, PI	Luís Correia, PI
		2024	Construction of freight terminal at Port of Natal	1 un	Natal, RN	Natal, RN
		2025	Construction of freight terminal at Port of Mangue	1 un	Porto do Mangue, RN	Porto do Mangue, RN
		2036	Construction of passenger terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
2047	Construction of container terminal at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS		



Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port construction	2052	Construction of Port of Barra do Furado at Campos dos Goytacazes and Quissamã	1 un	Quissamã, RJ	Campos dos Goytacazes, RJ
		2058	Construction of Port of Pombeba Island at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		2069	Construction of forest products terminal at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2086	Construction of bulk cargo terminal at Port of Santana	1 un	Santana, AP	Santana, AP
		2099	Construction of port on left bank of Port of Santos	1 un	Santos, SP	Santos, SP
		2100	Construction of new terminal of liquid bulk cargo at Port of Santos	1 un	Santos, SP	Santos, SP
		2109	Construction of Ocean Barge Terminal at Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		2120	Construction of freight terminal at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2136	Construction of container terminal at Port of Itaqui in São Luis	1 un	São Luís, MA	São Luís, MA
		2137	Construction of general freight terminal at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
		2143	Construction of container terminals at Port of Vitória	2 un	Vitória, ES	Vitória, ES
		2144	Construction of terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2145	Construction of deepwater port in Espírito Santo	1 un	Vila Velha, ES	Vila Velha, ES
		2859	Construction of Port of Peruíbe	1 un	Peruíbe, SP	Peruíbe, SP
		2876	Construction of port terminal on the Island of Terraplano Leste in the Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
2909	Construction of passenger terminal at Port of Maceió	1 un	Maceió, AL	Maceió, AL		

Table 19 - List of projects of the Cabotage Corridor (E9)

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port construction	2928	Construction of liquid bulk cargo terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2936	Construction of grain terminal at Port of Paranaguá	3 un	Paranaguá, PR	Paranaguá, PR
		2938	Construction of vehicle terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2940	Construction of pulp terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		3005	Construction of intermodal cargo terminal at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		3038	Construction of supply boat terminal at Port of Barra do Riacho in Aracruz	1 un	Aracruz, ES	Aracruz, ES

Note: No information was found for the extensions of projects 0966, 1899, 1920, 1957, 1989, 1992 and 2038. Therefore, the project scale for each project was estimated using the expected investment amount.

## 5.9.2 ESTIMATE OF INVESTMENT IN THE CABOTAGE CORRIDOR (E9)

To enable implementation of the projects proposed for the Cabotage Corridor (E9), minimum investments by type of intervention are estimated in Table 20.

Tabela 20 - Minimum Investment - Cabotage Corridor (E9)

Infrastructure	Category	Scale	Minimum Investment (R\$)
Port	Waterway access to port	119.030.598,7 m <sup>3</sup>	5.364.969.248,72
	Land access to port	388,1 km	18.349.961.538,65
	Port area	186 un	22.996.526.604,88
	Port construction	57 un	75.278.189.494,09
<b>Total</b>			<b>121.989.646.886,34</b>



06

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# URBAN PROJECTS

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Transportation systems in an urban context are of fundamental importance for the country's economy and for the quality of life of its citizens, particularly since most of the country's population is concentrated in cities where they perform their daily activities. Given the growth of cities and metropolitan areas, urban transportation systems have shown themselves to be highly complex, responding to a wide variety of demands both in terms of transport types as well as destinations and schedules.

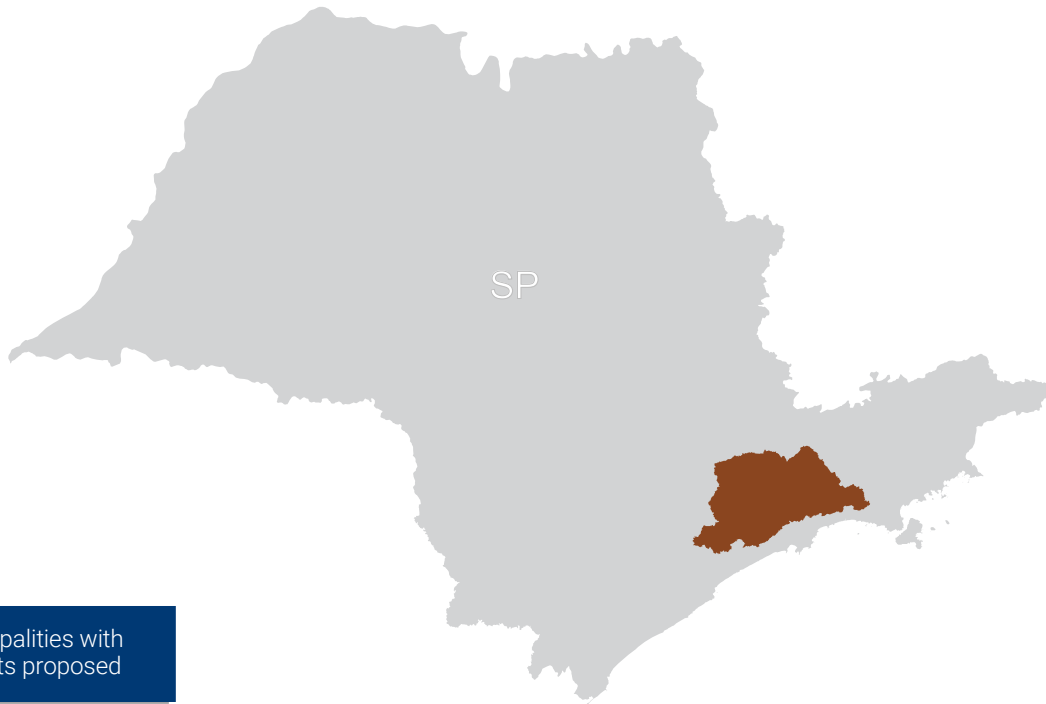
The lack of adequate planning and continued investment in the transportation networks of Brazilian cities over the years has been especially reflected in reductions of the number of public transport passengers and in frequent traffic jams. In general, the inefficiencies of transport lead to cities' loss of competitiveness and their ability to attract investment.

In this regard, the Urban Projects proposed in the CNT Transportation and Logistics Plan 2018 cover all of the different modalities, with interventions that favor the development of integrated urban transportation systems. Of note are the projects of medium and high capacity public transport, as well as interventions to infrastructure that contribute to an increase in the level of service perceived by all system users. In this way, it contributes to increased safety and comfort as well as reduced travel times, accidents and pollution levels.

As mentioned in Chapter 4, the proposals of this CNT Plan include the country's 20 major Metropolitan Regions (MRs) and Integrated Development Regions (IDRs), which contain more than 1 million inhabitants and include State capitals. Additionally, Urban Projects also encompass 21 other metropolitan areas - MRs, IDRs and Urban Agglomerations – which do not meet the population and/or capital criteria described above. Finally, 21 projects are also considered in 18 other urban centers located outside of these groups, which are medium in size and exert some influence on other cities.

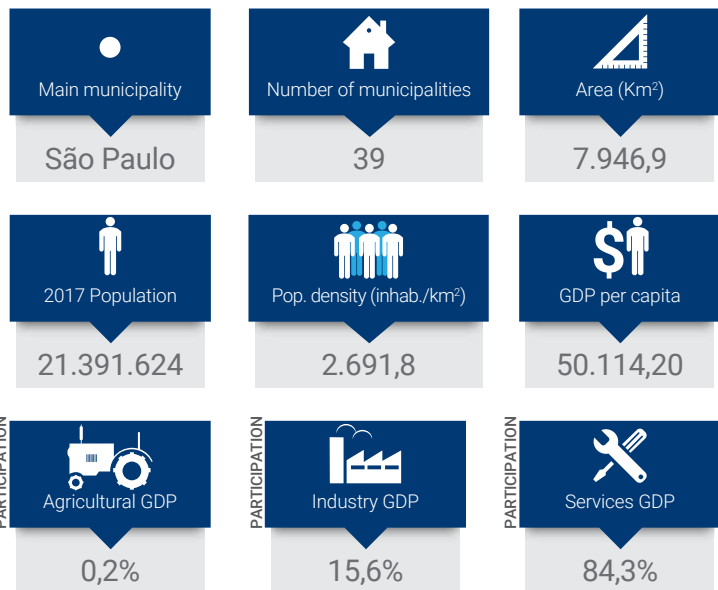
Given this framework, tables are presented in this chapter with the list of urban projects proposed and indicating the infrastructure, intervention category, initial and final municipalities and scale (extension, volume or quantity), and are organized according to the metropolitan area or urban centers in which they are located. The minimum investments required to carry out these urban projects are also presented. For each of the 20 major MRs and IDRs, an infographic is presented with its physical, socioeconomic and demographic characteristics.

## 6.1 SÃO PAULO METROPOLITAN REGION



### Municipalities with projects proposed

- Arujá
- Barueri
- Cajamar
- Carapicuíba
- Cotia
- Diadema
- Embu
- Embu-Guaçu
- Ferraz de Vasconcelos
- Guarulhos
- Itapeverica da Serra
- Itapevi
- Itaquaquecetuba
- Jandira
- Mauá
- Mogi das Cruzes
- Osasco
- Poá
- Ribeirão Pires
- Rio Grande da Serra
- Santana de Parnaíba
- Santo André
- São Bernardo do Campo
- São Caetano do Sul
- São Paulo
- Suzano
- Taboão da Serra



### Types of interventions



Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.



Table 21 - List of projects of the São Paulo Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Implementation of waterway transportation corridor	3329	Implementation of São Paulo Metropolitan waterway transportation ring	186,0 km	Santana de Parnaíba, SP	Osasco, SP
Rail	Expansion of metro or urban train	1012	Expansion of metro Line 4-Yellow extension from São Paulo to Taboão da Serra	7,0 km	São Paulo, SP	Taboão da Serra, SP
		1015	Expansion of metro Line 5-Lilac extension in São Paulo	11,5 km	São Paulo, SP	São Paulo, SP
		1017	Expansion of metro Line 2- Green extension from São Paulo to Guarulhos	14,4 km	São Paulo, SP	Guarulhos, SP
		1163	Construction of metro Line 6-Orange in São Paulo	13,5 km	São Paulo, SP	São Paulo, SP
	1183	Construction of metro Line 20-Pink from São Paulo to São Bernardo do Campo	25,0 km	São Paulo, SP	São Bernardo do Campo, SP	
	1190	Expansion of metro Line 9-Emerald of São Paulo Metropolitan train	4,5 km	São Paulo, SP	São Paulo, SP	
	2776	Construction of metropolitan train ABC Express Line from São Paulo to Mauá	25,2 km	São Paulo, SP	Mauá, SP	
	Construction of monorail or LRT or atmospheric railway	1021	Construction of metro Line 17-Gold monorail in São Paulo	17,7 km	São Paulo, SP	São Paulo, SP
		1024	Construction of metro Line 18-Bronze monorail from São Paulo to São Bernardo do Campo	15,4 km	São Paulo, SP	São Bernardo do Campo, SP
		1175	Construction of metro Line 15-Silver monorail in São Paulo	26,7 km	São Paulo, SP	São Paulo, SP
Road	Urban road adjustment	0891	Construction of tunnel on Avenida Roberto Marinho in São Paulo	2,4 km	São Paulo, SP	São Paulo, SP
		0892	Construction of the Sena Madureira Interchange in São Paulo	1,9 km	São Paulo, SP	São Paulo, SP
		0893	Construction of tunnel on Avenida Lineu de Paula Machado in São Paulo	1,6 km	São Paulo, SP	São Paulo, SP
		3380	Construction of flyover for rail overpass in Ribeirão Pires	2,7 km	Ribeirão Pires, SP	Ribeirão Pires, SP

Table 21 - List of projects of the São Paulo Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1244	Implementation of Radial Leste BRT in São Paulo	28,8 km	São Paulo, SP	São Paulo, SP
		1246	Implementation of Leste Itaquera Corridor in São Paulo	14,0 km	São Paulo, SP	São Paulo, SP
		1247	Implementation of Leste Aricanduva Corridor in São Paulo	14,0 km	São Paulo, SP	São Paulo, SP
		1249	Implementation of Capão Redondo-Vila Sônia Corridor in São Paulo	12,1 km	São Paulo, SP	São Paulo, SP
		1254	Implementation of Carlos Caldeira Filho Corridor in São Paulo	3,5 km	São Paulo, SP	São Paulo, SP
		2778	Implementation of East Metropolitan Beltway BRT from São Paulo to Guarulhos	26,7 km	São Paulo, SP	Guarulhos, SP
		2779	Implementation of Itapevi-Cotia Metropolitan BRT	9,4 km	Itapevi, SP	Cotia, SP
		2780	Implementation of Alphaville-Cajamar Metropolitan BRT from Barueri to Cajamar	28,9 km	Barueri, SP	Cajamar, SP
		2781	Implementation of Alto Tietê Metropolitan Beltway BRT from Arujá to Ferraz de Vasconcelos	19,8 km	Arujá, SP	Ferraz de Vasconcelos, SP
		2782	Implementation of Guarulhos-São Paulo (Tucuruvi) Metropolitan Corridor	31,0 km	São Paulo, SP	Guarulhos, SP
		2783	Implementation of sections 2, 3 and 4 of Itapevi-São Paulo Metropolitan Corridor from Jandira to São Paulo	18,6 km	Jandira, SP	São Paulo, SP
		2784	Implementation of Embu-Guaçu-Varginha Metropolitan Corridor from Embu-Guaçu to São Paulo	17,0 km	Embu-Guaçu, SP	São Paulo, SP
2785	Implementation of Raposo Tavares Metropolitan Corridor from Cotia to São Paulo	27,0 km	Cotia, SP	São Paulo, SP		
2786	Implementation of Itapecerica-São Paulo (Vila Sonia) Metropolitan Corridor from Itapecerica da Serra to São Paulo	25,0 km	Itapecerica da Serra, SP	São Paulo, SP		

Table 21 - List of projects of the São Paulo Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	2787	Implementation of Itapecerica-São Paulo (Capão Redondo) Metropolitan Corridor from Itapecerica da Serra to São Paulo	12,0 km	Itapecerica da Serra, SP	São Paulo, SP
		2788	Implementation of Anhanguera Metropolitan Corridor from Cajamar to São Paulo	31,0 km	Cajamar, SP	São Paulo, SP
		2789	Implementation of East Metropolitan Corridor from Mogi das Cruzes to São Paulo	32,0 km	Mogi das Cruzes, SP	São Paulo, SP
		3350	Implementation of M'Boi Mirim-Cachoeirinha Corridor in São Paulo	5,5 km	São Paulo, SP	São Paulo, SP
		3370	Implementation of East-West Corridor in São Bernardo do Campo	13,0 km	São Bernardo do Campo, SP	São Bernardo do Campo, SP
		3371	Implementation of preferential bus lanes in Rio Grande da Serra	15,0 km	Rio Grande da Serra, SP	Rio Grande da Serra, SP
		3382	Implementation of East-West Corridor in Mogi das Cruzes	15,8 km	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3383	Implementation of preferential bus lane in Osasco	4,7 km	Osasco, SP	Osasco, SP
		3384	Implementation of preferential bus lanes in Mauá	26,0 km	Mauá, SP	Mauá, SP
		3523	Implementation of preferential bus lanes in Guarulhos	12,3 km	Guarulhos, SP	Guarulhos, SP
3626	Implementation of preferential bus lanes in Diadema	12,0 km	Diadema, SP	Diadema, SP		
3629	Implementation of preferential bus lanes in São Bernardo do Campo	42,0 km	São Bernardo do Campo, SP	São Bernardo do Campo, SP		
Terminal	Station adjustment	1192	Adjustment of metro stations on Line 8-Diamond from Jandira to São Paulo	12 un	Jandira, SP	São Paulo, SP
		1193	Adjustment of metro stations on Line 7-Ruby from Jundiaí to São Paulo	15 un	Jundiaí, SP	São Paulo, SP
		1194	Adjustment of metro stations on Line 12-Sapphire in Itaquaquecetuba	3 un	Itaquaquecetuba, SP	Itaquaquecetuba, SP

Table 21 - List of projects of the São Paulo Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Station adjustment	1195	Adjustment of metro stations on Line 11-Coral from São Paulo to Mogi das Cruzes	8 un	São Paulo, SP	Mogi das Cruzes, SP
		1198	Adjustment of metro stations on Line 10- Turquoise from São Paulo to Rio Grande da Serra	11 un	São Paulo, SP	Rio Grande da Serra, SP
	Station construction	1185	Construction of metro stations on Line 20-Pink from São Paulo to São Bernardo do Campo	25 un	São Paulo, SP	São Bernardo do Campo, SP
		1197	Construction of União Vila Nova metro station on Line 12-Sapphire in São Paulo	1 un	São Paulo, SP	São Paulo, SP
	Terminal construction	1256	Construction of Itaquera Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1257	Construction of new Jardim Ângela Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1259	Construction of Perus Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		2834	Construction of new Parelheiros Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP

Table 22 - Minimum Investment - Metropolitan Region of São Paulo

Infrastructure	Category	Scale	Minimum Investment (R\$)
Waterway	Implementation of waterway transportation corridor	186,0 km	3.918.750.000,00
Rail	Construction of metro or urban train	101,1 km	42.435.497.300,78
	Construction of monorail or LRT or atmospheric railway	59,8 km	15.447.694.035,51
Road	Urban road adjustment	8,6 km	3.686.830.122,69
	Implementation of express lane or BRT or RTM	497,1 km	9.390.607.374,18
Terminal	Station adjustment	49 un	1.581.239.534,37
	Station construction	26 un	4.727.318.750,00
	Terminal construction	4 un	1.041.001.954,40
<b>Total</b>			<b>82.228.939.071,93</b>



## 6.2 RIO DE JANEIRO METROPOLITAN REGION



### Municipalities with projects proposed

- Belford Roxo
- Duque de Caxias
- Guapimirim
- Itaboraí
- Japeri
- Magé
- Maricá
- Mesquita
- Nilópolis
- Niterói
- Nova Iguaçu
- Paracambi
- Queimados
- Rio de Janeiro
- São Gonçalo
- São João de Meriti

**Main municipality**  
Rio de Janeiro

**Number of municipalities**  
21

**Area (Km<sup>2</sup>)**  
6.752,7

**2017 Population**  
12.377.505

**Pop. density (inhab./km<sup>2</sup>)**  
1.833,0

**GDP per capita**  
38.440,88

**2015 GDP - MR**  
(R\$ millions)  
472,08

**PARTICIPATION**  
**Agricultural GDP**  
0,1%

**PARTICIPATION**  
**Industry GDP**  
17,6%

**PARTICIPATION**  
**Services GDP**  
82,3%

### Types of interventions

Urban road	Urban train, metro, monorail, LRT and/or atmospheric railway	Express lane, BRT e/ou VLP	Passenger waterway	Passenger station and/or terminal

Notes:  
Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 23 - List of projects of the Rio de Janeiro Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of metro or urban train	0917	Expansion of metro Line 4 extension in Rio de Janeiro	1,2 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3970	Expansion of metro Line 4 extension from Jardim Oceânico to Recreio in Rio de Janeiro	16,9 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
	Construction of monorail or LRT or atmospheric railway	1048	Construction of LRT lines in Rio de Janeiro	28,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		1050	Construction of Line 3 monorail from Niterói to São Gonçalo	22,0 km	Niterói, RJ	São Gonçalo, RJ
		1062	Construction of Centro-Valverde Line of atmospheric railway in Nova Iguaçu	7,9 km	Nova Iguaçu, RJ	Nova Iguaçu, RJ
Road	Urban road construction	0915	Expansion of Via Light from Queimados to Rio de Janeiro	17,5 km	Queimados, RJ	Rio de Janeiro, RJ
		3517	Construction of Transbaixada from Rio de Janeiro to Duque de Caxias	25,0 km	Rio de Janeiro, RJ	Duque de Caxias, RJ
	Implementation of express lane or BRT or RTM	0911	Implementation of TransBrasil BRT in Rio de Janeiro	32,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		1054	Implementation of TransOceânica BRT in Niterói	9,3 km	Niterói, RJ	Niterói, RJ
		1058	Implementation of BRT from Niterói to Itaboraí	30,0 km	Niterói, RJ	Itaboraí, RJ
		2790	Implementation of BRT in São Gonçalo	20,0 km	São Gonçalo, RJ	São Gonçalo, RJ
		2791	Implementation of BRT in Duque de Caxias	41,0 km	Duque de Caxias, RJ	Duque de Caxias, RJ
		2793	Implementation of Via Light BRT from Nova Iguaçu to Rio de Janeiro	21,3 km	Nova Iguaçu, RJ	Rio de Janeiro, RJ
		3507	Implementation of BRT from São Gonçalo to Maricá	30,9 km	São Gonçalo, RJ	Maricá, RJ
		3509	Implementation of BRT on Presidente Dutra Highway from Nova Iguaçu to Rio de Janeiro	23,2 km	Nova Iguaçu, RJ	Rio de Janeiro, RJ
		3512	Implementation of BRT on Washington Luis Highway from Duque de Caxias to Rio de Janeiro	16,0 km	Duque de Caxias, RJ	Rio de Janeiro, RJ



Table 23 - List of projects of the Rio de Janeiro Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	3518	Implementation of Transbaixada BRT from Rio de Janeiro to Duque de Caxias	25,0 km	Rio de Janeiro, RJ	Duque de Caxias, RJ
		3521	Implementation of BRT on Governador Mário Covas Road from Niterói to Itaboraí	25,9 km	Niterói, RJ	Itaboraí, RJ
Terminal	Station adjustment	3402	Adjustment of metropolitan train stations in the Rio de Janeiro Metropolitan Region	89 un	Belford Roxo, RJ	São João de Meriti, RJ

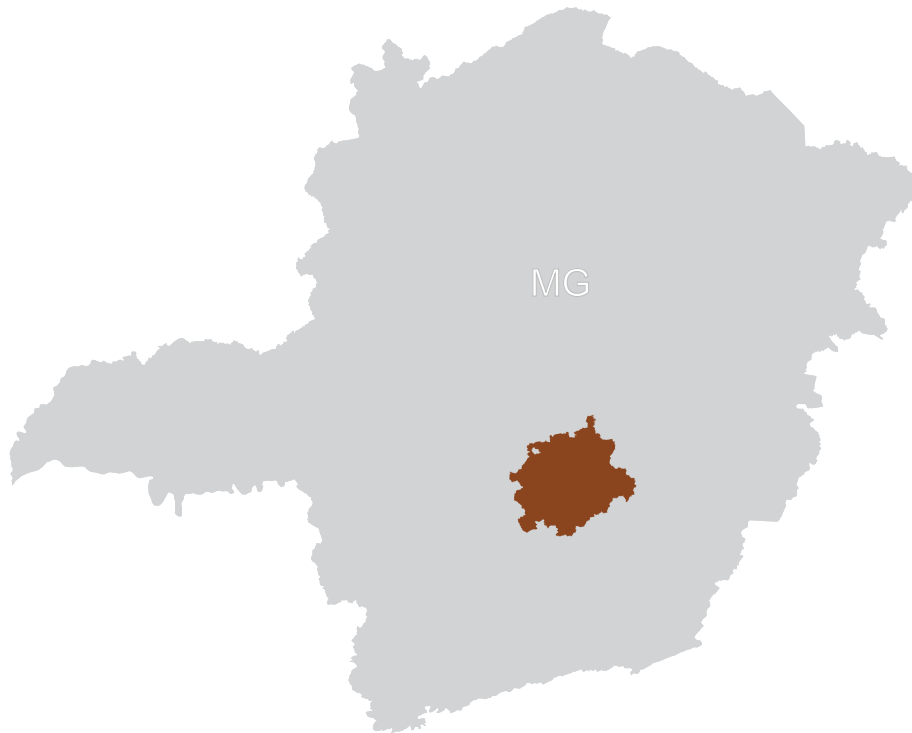
Table 24 - Minimum Investment - Metropolitan Region of Rio de Janeiro

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of metro or urban train	18,1 km	8.789.379.823,57
	Construction of monorail or LRT or atmospheric railway	57,9 km	7.112.303.450,63
Road	Urban road construction	42,5 km	1.947.877.130,81
	Implementation of express lane or BRT or RTM	274,6 km	6.795.192.184,12
Terminal	Station adjustment	89 un	1.464.744.131,94
<b>Total</b>			<b>26.109.496.721,07</b>





## 6.3 BELO HORIZONTE METROPOLITAN REGION



### Municipalities with projects proposed

Belo Horizonte  
Betim  
Contagem  
Ribeirão das Neves  
Vespasiano

Main municipality

Belo Horizonte

Number of municipalities

50

Area (Km<sup>2</sup>)

14.978,9

2017 Population

5.915.536

Pop. density (inhab./km<sup>2</sup>)

394,9

GDP per capita

32.857,32



2015 GDP - MR  
(R\$ millions)

191,56

PARTICIPATION



Agricultural GDP

0,4%

PARTICIPATION



Industry GDP

28,2%

PARTICIPATION



Services GDP

71,4%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 25 - List of projects of the Belo Horizonte Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Rail	Acquisition and improvement of rolling stock	1040	Acquisition of rolling stock for metro Line 2 in Belo Horizonte	28 un	Belo Horizonte, MG	Belo Horizonte, MG		
		1041	Acquisition of rolling stock for metro Line 3 in Belo Horizonte	30 un	Belo Horizonte, MG	Belo Horizonte, MG		
	Construction of metro or urban train	1029	Construction of Lines 2 and 3 of metro from Contagem to Belo Horizonte	13,5 km	Contagem, MG	Belo Horizonte, MG		
		2768	Construction of Line 3 of metro in Belo Horizonte	8,2 km	Belo Horizonte, MG	Belo Horizonte, MG		
		2769	Construction of Savassi-Belvedere section of metro Line 3 in Belo Horizonte	5,0 km	Belo Horizonte, MG	Belo Horizonte, MG		
		2770	Expansion of Line 1 metro extension from Contagem to Betim	20,4 km	Contagem, MG	Betim, MG		
		2771	Expansion of Line 1 metro extension from Belo Horizonte, to Vespasiano	5,4 km	Belo Horizonte, MG	Vespasiano, MG		
		2772	Construction of Line 2 of metro in Belo Horizonte	7,9 km	Belo Horizonte, MG	Belo Horizonte, MG		
		2773	Construction of Line 2 of metro from Belo Horizonte to Ibirité	12,5 km	Belo Horizonte, MG	Ibirité, MG		
		2774	Construction of metro line from Belo Horizonte to Santa Luzia	43,1 km	Belo Horizonte, MG	Santa Luzia, MG		
		2775	Construction of metro line from Belo Horizonte to Ribeirão das Neves	28,4 km	Belo Horizonte, MG	Ribeirão das Neves, MG		
		Road	Urban road adjustment	1101	Adjustment of urban roads in Barreiro region of Belo Horizonte	7,3 km	Belo Horizonte, MG	Belo Horizonte, MG
				1105	Expansion of intersection between highways 90 and 120 in Center-South and Barreiro regions of Belo Horizonte	1,6 km	Belo Horizonte, MG	Belo Horizonte, MG
1106	Tunnel construction on Via 276 in Center-South and East regions of Belo Horizonte			2,6 km	Belo Horizonte, MG	Belo Horizonte, MG		
1107	Implementation of intersection between highways 710 and 643 in East region of Belo Horizonte			1,2 km	Belo Horizonte, MG	Belo Horizonte, MG		

Table 25 - List of projects of the Belo Horizonte Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Adjustment of urban road	1109	Improvement of intersection between highways 710 and 250 in East and Northeast regions of Belo Horizonte	1,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1111	Adjustment of urban roads in Northeast region of Belo Horizonte	24,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1113	Adjustment of urban roads in Northwest region of Belo Horizonte	13,7 km	Belo Horizonte, MG	Belo Horizonte, MG
		1115	Adjustment of urban roads in North region of Belo Horizonte	8,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		1117	Adjustment of urban roads in West region of Belo Horizonte	15,4 km	Belo Horizonte, MG	Belo Horizonte, MG
		1119	Expansion of intersections of urban roads in West and Barreiro regions in Belo Horizonte	4,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		1121	Adjustment of urban roads in Pampulha region of Belo Horizonte	31,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1123	Adjustment of urban roads in Venda Nova region of Belo Horizonte	2,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		1125	Construction of flyover between highways 590 and 230 in North and Northeast regions of Belo Horizonte	3,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		1126	Adjustment of highway 590 in Pampulha and North regions of Belo Horizonte	1,8 km	Belo Horizonte, MG	Belo Horizonte, MG
	1135	Adjustment of Avenida do Contorno in Belo Horizonte	2,2 km	Belo Horizonte, MG	Belo Horizonte, MG	
	3421	Expansion of Complexo da Lagoinha in Belo Horizonte	1,6 km	Belo Horizonte, MG	Belo Horizonte, MG	
	1061	Construction of Via 710 in Belo Horizonte	5,0 km	Belo Horizonte, MG	Belo Horizonte, MG	
	Urban road construction	1102	Urban road construction in Barreiro region of Belo Horizonte	31,8 km	Belo Horizonte, MG	Belo Horizonte, MG
	1104	Urban road construction in Center-South region of Belo Horizonte	12,7 km	Belo Horizonte, MG	Belo Horizonte, MG	

Table 25 - List of projects of the Belo Horizonte Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Urban road construction	1108	Urban road construction in the East region of Belo Horizonte	7,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1110	Construction of road parallel to Via 710 in East and Northeast regions of Belo Horizonte	3,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1112	Urban road construction in Northeast region of Belo Horizonte	28,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1114	Urban road construction in Northwest region of Belo Horizonte	16,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1116	Urban road construction in North region of Belo Horizonte	24,4 km	Belo Horizonte, MG	Belo Horizonte, MG
		1118	Urban road construction in West region of Belo Horizonte	25,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1120	Construction of Via 936 in West and Barreiro regions of Belo Horizonte	4,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1122	Urban road construction in Pampulha region of Belo Horizonte	16,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		1124	Urban road construction in Venda Nova region of Belo Horizonte	12,7 km	Belo Horizonte, MG	Belo Horizonte, MG
	Implementation of express lane or BRT or RTM	1047	Implementation of Move Antônio Carlos BRT in Belo Horizonte	14,7 km	Belo Horizonte, MG	Belo Horizonte, MG
		1127	Implementation of preferential lane on Avenida Portugal in Belo Horizonte	5,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		1128	Implementation of BRT on Avenidas Civilização and Vilarinho in Belo Horizonte	4,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		1129	Implementation of Amazonas Corridor BRT in Belo Horizonte	33,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1136	Implantation of BRT on Ring Road in Belo Horizonte	26,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1137	Implementation of BRS on Intermediário Ring Road in Belo Horizonte	26,5 km	Belo Horizonte, MG	Belo Horizonte, MG

Table 25 - List of projects of the Belo Horizonte Metropolitan Region

continuation

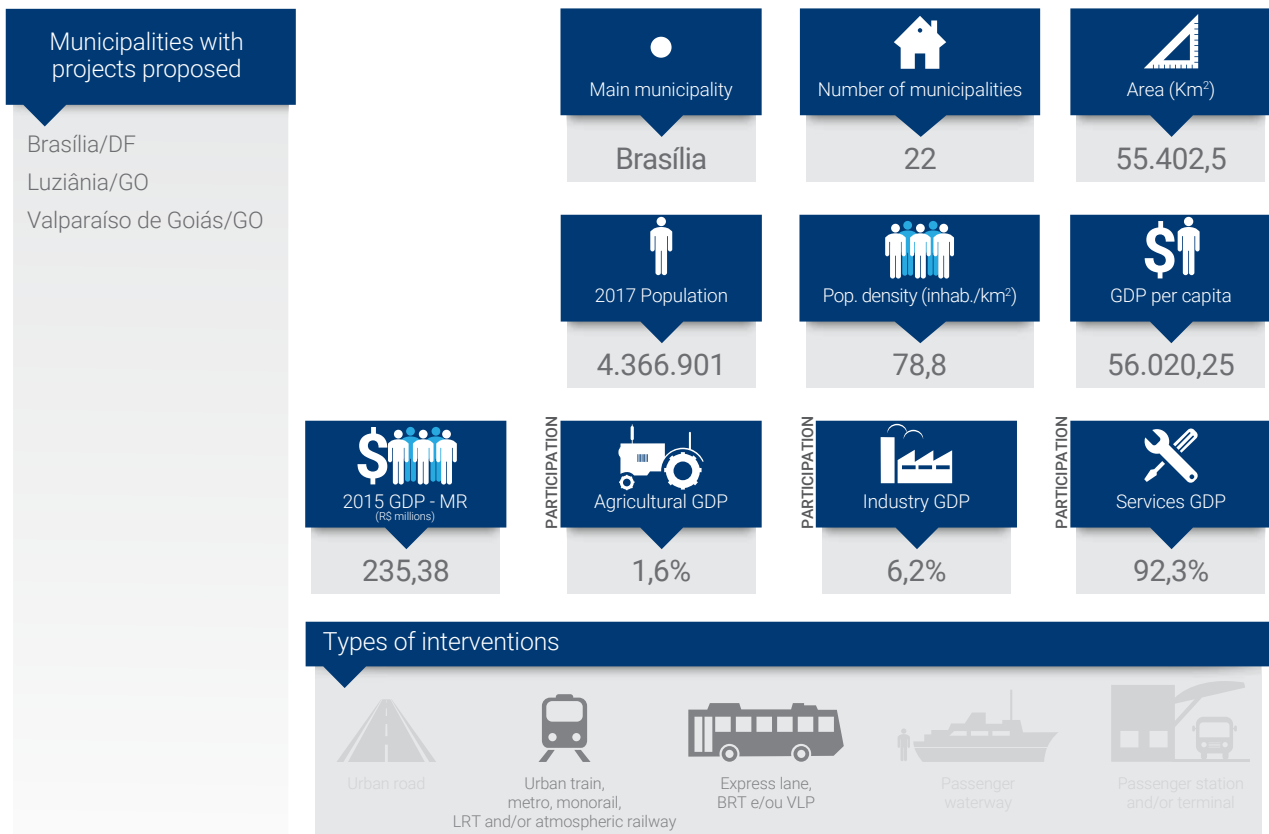
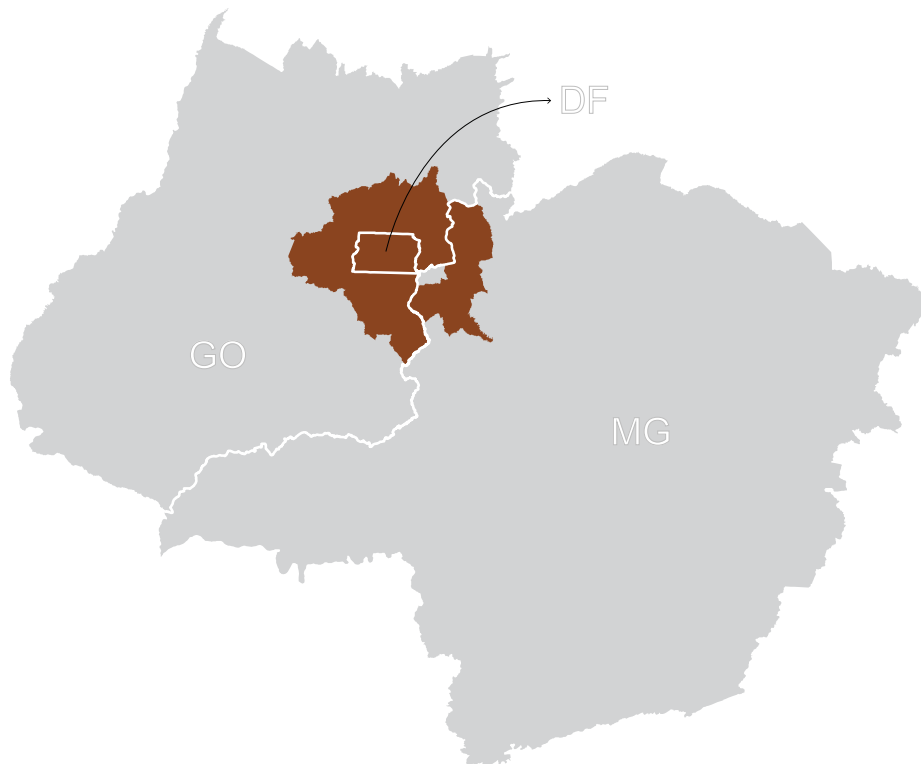
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1138	Implementation of BRS on Andradas-Assis Chateaubriand Bypass in Belo Horizonte	14,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1141	Implementation of BRS on Avenida Raja Gabaglia in Belo Horizonte	5,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		3401	Implementation of BRS on Avenida Nossa Senhora do Carmo in Belo Horizonte	5,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		3403	Implementation of Estoril-Salgado Filho BRS in Belo Horizonte	5,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		3404	Implementation of Venda Nova-Barreiro BRS in Belo Horizonte	19,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		3405	Implementation of BRS on Avenida Afonso Pena in Belo Horizonte	3,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		3406	Implementation of BRT on Avenidas Cristiano Machado and Risoleta Neves and Via 540 in Belo Horizonte	7,7 km	Belo Horizonte, MG	Belo Horizonte, MG
		3407	Implementation of preferential lanes in Belo Horizonte	54,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		3452	Implementation of preferential bus lanes in Ribeirão das Neves	8,1 km	Ribeirão das Neves, MG	Ribeirão das Neves, MG
		3455	Implementation of preferential bus lanes in Contagem	42,1 km	Contagem, MG	Contagem, MG
Terminal	Terminal construction	1134	Construction of urban passenger bus terminals in Belo Horizonte	4 un	Belo Horizonte, MG	Belo Horizonte, MG
		3408	Construction of São José Integration Station in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG

Table 26 - Minimum Investment - Metropolitan Region of Belo Horizonte

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Acquisition and improvement of rolling stock	58 un	1.822.719.691,37
	Construction of metro or urban train	144,4 km	53.403.737.313,84
Road	Urban road adjustment	123,6 km	2.480.675.174,18
	Urban road construction	189,5 km	3.830.939.744,87
	Implementation of express lane or BRT or RTM	277,7 km	3.410.181.346,93
Terminal	Terminal construction	5 un	164.504.398,24
<b>Total</b>			<b>65.112.757.669,43</b>



## 6.4 INTEGRATED DEVELOPMENT REGION OF THE FEDERAL DISTRICT AND SURROUNDING AREAS



Notes:  
Data refer to all municipalities in the Integrated Development Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 27 - List of projects of the Integrated Development Region of the Federal District and surrounding areas

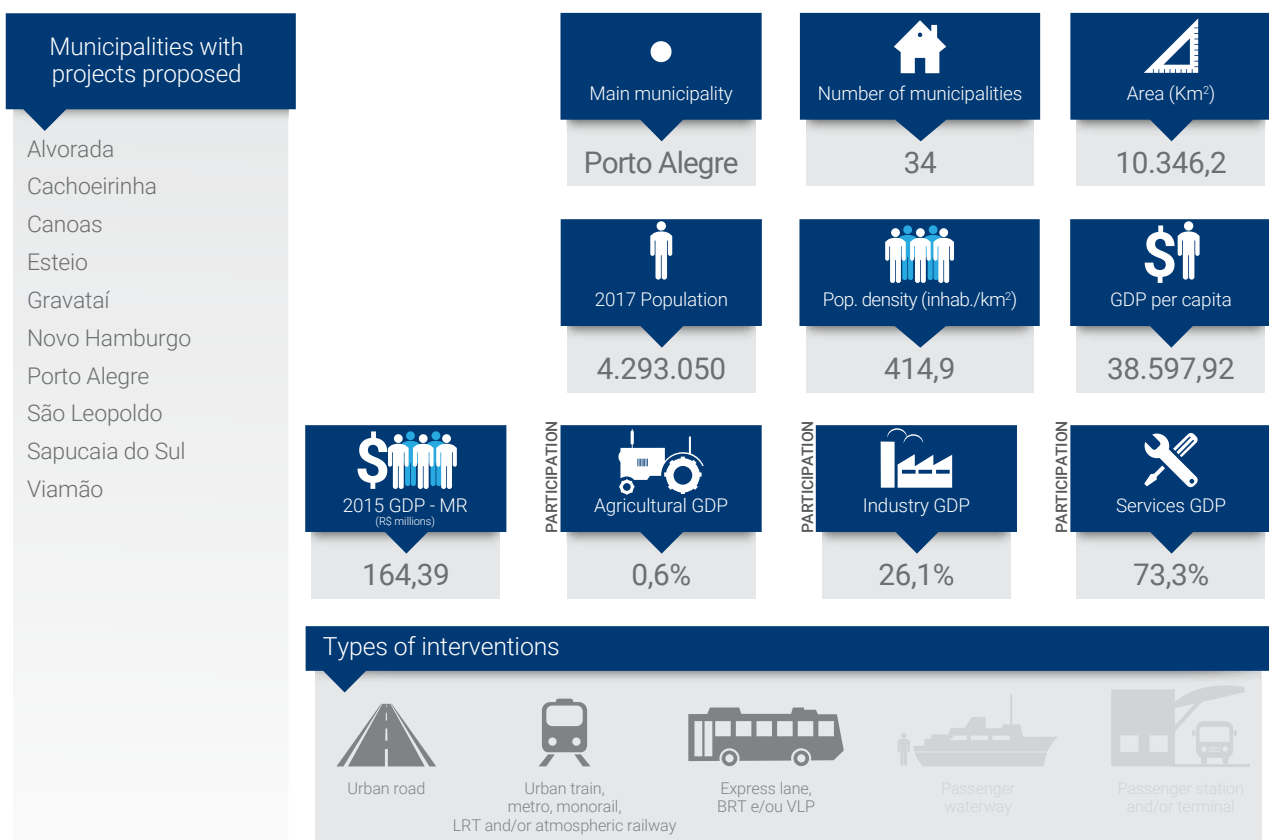
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of metro or urban train	3809	Expansion of metro line extension in Brasília	6,8 km	Brasília/DF	Brasília/DF
		3972	Construction of North Wing-Planaltina section of metro in Brasília	37,9 km	Brasília/DF	Brasília/DF
	Construction monorail or LRT or atmospheric railway	0836	Construction of Line 1 of LRT in Brasília	6,4 km	Brasília/DF	Brasília/DF
		3967	Construction of Line 2 of LRT in Brasília	22,0 km	Brasília/DF	Brasília/DF
		3969	Construction of Line 3 of LRT in Brasília	15,0 km	Brasília/DF	Brasília/DF
	Restoration railway	1224	Restoration of railway passenger train railway in Brasília	40,3 km	Brasília/DF	Brasília/DF
		3798	Restoration of railway Valparaíso passenger train railway from Valparaíso from Goiás to Luziânia	35,7 km	Valparaíso de Goiás/GO	Luziânia/GO
Road	Implementation of express lane or BRT or RTM	1225	Implementation of South Highway Corridor BRT in Brasília	35,0 km	Brasília/DF	Brasília/DF
		1226	Implementation of West Highway Corridor BRT in Brasília	38,7 km	Brasília/DF	Brasília/DF

Table 28 - Minimum Investment - Integrated Development Region of the Federal District and Surrounding Areas

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of metro or urban train	44,7 km	18.768.972.569,94
	Construction of monorail or LRT or atmospheric railway	43,4 km	2.786.843.798,73
	Restoration of railway	76,0 km	4.266.221.226,78
Road	Implementation of express lane or BRT or RTM	73,7 km	1.228.902.785,86
<b>Total</b>			<b>27.050.940.381,31</b>



## 6.5 PORTO ALEGRE METROPOLITAN REGION



Notes:  
 Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
 Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 29 - List of projects of the Porto Alegre Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Acquisition and improvement of rolling stock	3887	Acquisition of rolling stock for metropolitan train in Porto Alegre	15 un	Porto Alegre, RS	Novo Hamburgo, RS	
	Construction of metro or urban train	0884	Construction of metro line from Downtown to South Zone in Porto Alegre	11,0 km	Porto Alegre, RS	Porto Alegre, RS	
		0885	Construction of metro line in Porto Alegre	14,9 km	Porto Alegre, RS	Porto Alegre, RS	
	Construction of monorail or LRT or atmospheric railway	1080	Construction of atmospheric railway lines in Canoas	18,0 km	Canoas, RS	Canoas, RS	
Road	Adjustment of express lane or BRT or RTM	0882	Implementation of Corridor Operations Monitoring System in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS	
		0879	Revitalization of North Access Road to Porto Seco in Porto Alegre	1,7 km	Porto Alegre, RS	Porto Alegre, RS	
		1072	Construction of flyover between Avenidas Plínio Brasil Milano and Carlos Gomes in Porto Alegre	0,4 km	Porto Alegre, RS	Porto Alegre, RS	
	Urban road adjustment	1073	Construction of flyover between Avenidas Anita Garibaldi and Carlos Gomes in Porto Alegre	0,2 km	Porto Alegre, RS	Porto Alegre, RS	
		1074	Construction of flyover between Avenidas Cristóvão Colombo and III Perimetral in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS	
		1075	Construction of flyover between Avenidas Ceará and Farrapos in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS	
		1078	Construction of Bus Station Complex in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS	
		1095	Adjustment of Avenida Ernesto Neugebauer in Porto Alegre	2,7 km	Porto Alegre, RS	Porto Alegre, RS	
		1071	Expansion of Avenida Severo Dullius in Porto Alegre	2,4 km	Porto Alegre, RS	Porto Alegre, RS	
		Urban road construction	2811	Construction of Avenidas Metropolitana Leste and Metropolitana Oeste in the Porto Alegre Metropolitan Region	52,0 km	Canoas, RS	Novo Hamburgo, RS
			0870	Duplication of Avenida Vicente Monteggia in Porto Alegre	3,0 km	Porto Alegre, RS	Porto Alegre, RS

Table 29 - List of projects of the Porto Alegre Metropolitan Region

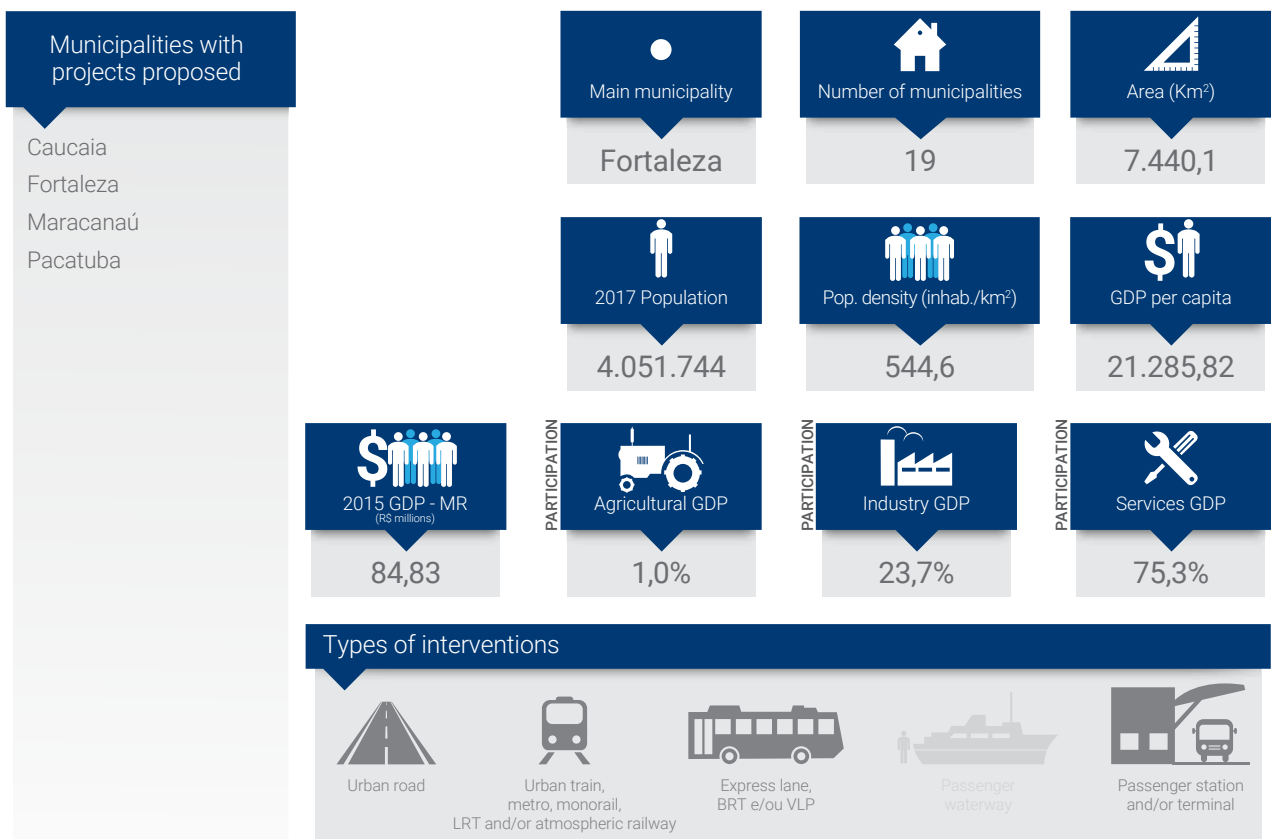
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	0873	Implementation of Avenida Tronco Corridor in Porto Alegre	5,3 km	Porto Alegre, RS	Porto Alegre, RS
		0875	Implementation of BRT on Avenida Protásio Alves in Porto Alegre	7,5 km	Porto Alegre, RS	Porto Alegre, RS
		0877	Implementation of preferential bus lanes on Avenidas Padre Cacique and Edvaldo Pereira Paiva in Porto Alegre	5,8 km	Porto Alegre, RS	Porto Alegre, RS
		1070	Implementation of BRT on Avenida Bento Gonçalves in Porto Alegre	6,5 km	Porto Alegre, RS	Porto Alegre, RS
		1076	Implementation of BRT on Avenida João Pessoa in Porto Alegre	3,2 km	Porto Alegre, RS	Porto Alegre, RS
		1077	Implementation of preferential bus lane on Rua Voluntários da Pátria in Porto Alegre	3,5 km	Porto Alegre, RS	Porto Alegre, RS
		1490	Implementation of preferential bus lanes on Avenida Edgar Pires de Castro in Porto Alegre	4,5 km	Porto Alegre, RS	Porto Alegre, RS
		2812	Implementation of preferential lanes and preferential bus lanes in the Metropolitan Region of Porto Alegre	57,3 km	Novo Hamburgo, RS	Viamão, RS

Table 30 - Minimum Investment - Metropolitan Region of Porto Alegre

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Acquisition and improvement of rolling stock	15 un	61.281.093,07
	Construction of metro or urban train	25,9 km	12.494.003.885,13
	Construction of monorail or LRT or atmospheric railway	18,0 km	971.504.136,35
Road	Adjustment of express lane or BRT or RTM	1 un	27.135.948,91
	Urban road adjustment	5,9 km	212.230.639,22
	Urban road construction	54,4 km	1.727.918.060,72
	Duplication of urban road	3,0 km	211.924.420,09
	Implementation of express lane or BRT or RTM	93,6 km	1.519.204.717,47
<b>Total</b>			<b>17.225.202.900,96</b>

## 6.6 FORTALEZA METROPOLITAN REGION



Notes:  
 Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
 Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 31 - List of projects of the Fortaleza Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of metro or urban train	1231	Construction of East Line of Fortaleza metro	12,4 km	Fortaleza, CE	Fortaleza, CE
	Construction of monorail or LRT or atmospheric railway	0829	Construction of Parangaba-Mucuripe branch line of LRT in Fortaleza	12,7 km	Fortaleza, CE	Fortaleza, CE
		2799	Construction of Caucaia-Pecém branch of LRT in Caucaia	52,0 km	Caucaia, CE	Caucaia, CE
	Restoration of railway	2800	Renovation of West Line of LRT from Caucaia to Fortaleza	19,5 km	Caucaia, CE	Fortaleza, CE
		2801	Renovation of Parangaba-Mucuripe branch of LRT in Fortaleza	15,5 km	Fortaleza, CE	Fortaleza, CE
		3489	Modernization of operating systems on South Line of metro from Pacatuba to Fortaleza	1 un	Pacatuba, CE	Fortaleza, CE
Road	Urban road construction	1239	Construction of bridge over Cocó River in Fortaleza	0,9 km	Fortaleza, CE	Fortaleza, CE
		0754	Implementation of Alberto Craveiro BRT in Fortaleza	3,0 km	Fortaleza, CE	Fortaleza, CE
	Implementation of express lane or BRT or RTM	0830	Implementation of Dedé Brasil BRT in Fortaleza	7,0 km	Fortaleza, CE	Fortaleza, CE
		0831	Implementation of Paulino Rocha BRT in Fortaleza	2,5 km	Fortaleza, CE	Fortaleza, CE
		0833	Implementation of preferential lanes on Avenidas Almirante Henrique Sabóia and Governador Raul Barbosa in Fortaleza	7,0 km	Fortaleza, CE	Fortaleza, CE
		1232	Implementation of express lanes on Avenidas Augusto dos Anjos, José Bastos, Senador Fernandes Távora and Expedicionários in Fortaleza	27,2 km	Fortaleza, CE	Fortaleza, CE
		2798	Implementation of Messejana-Centro Express Lane in Fortaleza	15,2 km	Fortaleza, CE	Fortaleza, CE
		2802	Implementation of 1st Express Ring Road BRT in Fortaleza	6,8 km	Fortaleza, CE	Fortaleza, CE

Table 31 - List of projects of the Fortaleza Metropolitan Region

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	2803	Implementation of BRT on Avenidas Perimetral and Juscelino Kubitschek in Fortaleza	23,2 km	Fortaleza, CE	Fortaleza, CE
		2804	Implementation of BRT on Avenidas Coronel Carvalho and Presidente Castelo Branco in Fortaleza	17,9 km	Fortaleza, CE	Fortaleza, CE
		2805	Implementation of BRT on Ruas Emílio de Menezes and Vital Brasil in Fortaleza	6,6 km	Fortaleza, CE	Fortaleza, CE
		2807	Implementation of BRT on Avenidas 13 de Maio, Pontes Vieira and Miguel Dias in Fortaleza	12,3 km	Fortaleza, CE	Fortaleza, CE
		3881	Implementation of preferential bus lanes in Caucaia	20,5 km	Caucaia, CE	Caucaia, CE
Terminal	Station construction	0834	Construção da estação metroviária Padre Cícero na Linha Sul em Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE

Table 32 - Minimum Investment - Metropolitan Region of Fortaleza

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of metro or urban train	12,4 km	4.473.300.216,53
	Construction of monorail or LRT or atmospheric railway	64,7 km	484.365.190,71
	Restoration of railway	35,0 km	2.837.094.666,93
Road	Urban road construction	1 un	66.272.191,91
	Implementation of express lane or BRT or RTM	0,9 km	593.496.007,18
Terminal	Station construction	149,2 km	2.867.865.220,03
Terminal	Station construction	1 un	42.350.000,00
<b>Total</b>			<b>11.364.743.493,29</b>

## 6.7 SALVADOR METROPOLITAN REGION



### Municipalities with projects proposed

Lauro de Freitas  
Salvador  
Simões Filho

Main municipality

Salvador

Number of municipalities

13

Area (Km<sup>2</sup>)

4.341,7

2017 Population

4.015.205

Pop. density (inhab./km<sup>2</sup>)

924,8

GDP per capita

27.235,58

2015 GDP - MR  
(R\$ millions)

107,67

PARTICIPATION

Agricultural GDP

0,2%

PARTICIPATION

Industry GDP

30,9%

PARTICIPATION

Services GDP

68,9%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

#### Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 33 - List of projects of the Salvador Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of metro or urban train	0717	Expansion of Line 1 metro extension in Salvador	5,5 km	Salvador, BA	Salvador, BA
		3325	Expansion of Line 2 metro extension from Salvador to Lauro de Freitas	3,0 km	Salvador, BA	Lauro de Freitas, BA
	Construction of monorail or LRT or atmospheric railway	1222	Construction of LRT from the outskirts of Salvador to Simões Filho	19,9 km	Salvador, BA	Simões Filho, BA
Road	Urban road adjustment	3443	Restoration of pavement on Luís Viana Avenue in Salvador	18,9 km	Salvador, BA	Salvador, BA
	Urban road construction	0828	Construction of Linha Viva in Salvador	17,7 km	Salvador, BA	Salvador, BA
		1211	Construction of Avenida Atlântica in Salvador	14,6 km	Salvador, BA	Salvador, BA
		1219	Construction of Transversal Corridor I in Salvador	12,7 km	Salvador, BA	Salvador, BA
		2795	Construction of Transversal Corridor II in Salvador	20,0 km	Salvador, BA	Salvador, BA
		Implementation of express lane or BRT or RTM	0827	Implementation of BRT Lapa-Iguatemi in Salvador	8,6 km	Salvador, BA

Table 34 - Minimum Investment - Metropolitan Region of Salvador

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of metro or urban train	8,5 km	3.970.978.866,58
	Construction of monorail or LRT or atmospheric railway	19,9 km	1.916.013.190,37
Road	Urban road adjustment	18,9 km	318.481.898,97
	Urban road construction	65,0 km	6.568.928.437,43
	Implementation of express lane or BRT or RTM	8,6 km	894.139.488,84
<b>Total</b>			<b>13.668.541.882,19</b>

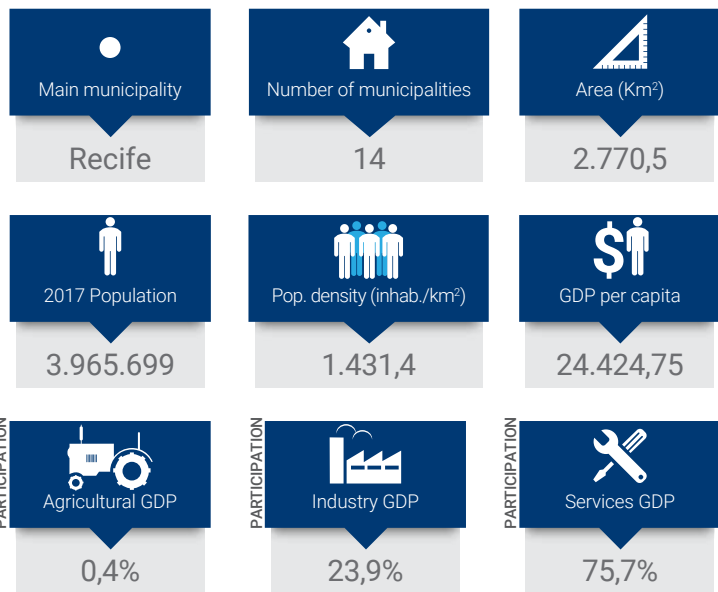


## 6.8 RECIFE METROPOLITAN REGION



### Municipalities with projects proposed

Abreu e Lima  
 Camaragibe  
 Igarassu  
 Jaboatão dos Guararapes  
 Olinda  
 Paulista  
 Recife  
 São Lourenço da Mata



### Types of interventions



**Notes:**

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 35 - List of projects in the Recife Metropolitan Region

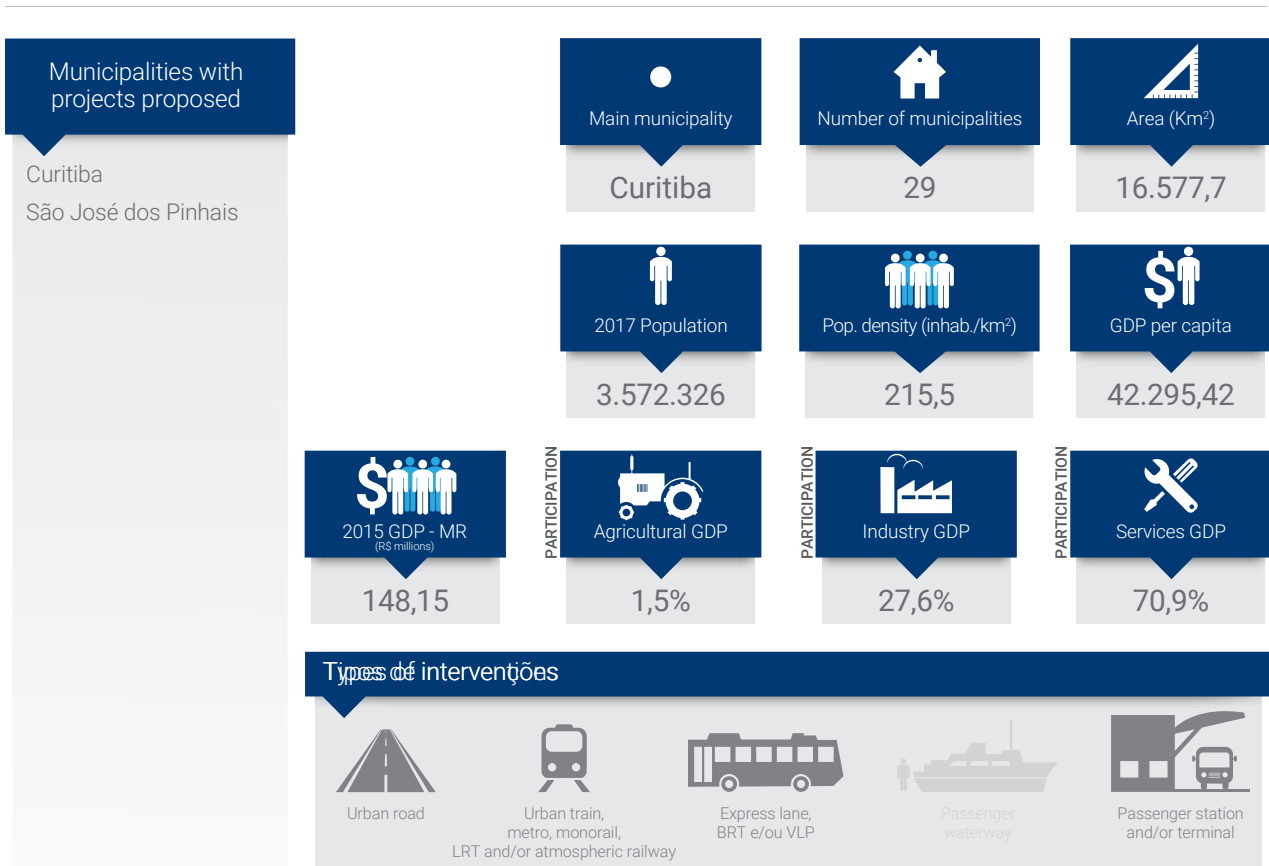
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Implementation of waterway transportation corridor	1042	Implementation of West and North sections of urban passenger waterway transportation corridor from Olinda to Recife	13,9 km	Olinda, PE	Recife, PE
		1209	Implementation of South section of urban passenger waterway transportation corridor from Olinda to Recife	6,0 km	Recife, PE	Recife, PE
Rail	Construction of metro or urban train	1019	Construction of Avenida Norte metro line in Recife	9,0 km	Recife, PE	Recife, PE
Road	Adjustment of urban road	1255	Rehabilitation of Avenida Beira Rio in Recife	0,9 km	Recife, PE	Recife, PE
		3884	Adjustment of urban roads in Jaboatão dos Guararapes	3,2 km	Jaboatão dos Guararapes, PE	Jaboatão dos Guararapes, PE
	Construction of urban road	2153	Construction of North Metropolitan Highway from Olinda to Paulista	6,1 km	Olinda, PE	Paulista, PE
		2179	Construction of North Ring Road from Recife to Olinda	10,0 km	Recife, PE	Olinda, PE
	Implementation of express lane or BRT or RTM	0848	Implementation of East/ West Freeway Corridor from Camaragibe to Recife	12,0 km	Camaragibe, PE	Recife, PE
		0849	Implementation of North/ South Freeway Corridor from Recife to Igarassu	33,2 km	Igarassu, PE	Recife, PE
		0850	Implementation of Cidade da Copa branch of East/ West Corridor from São Lourenço da Mata to Camaragibe	6,3 km	São Lourenço da Mata, PE	Camaragibe, PE
		1037	Implementation of Beltway Corridor II from Olinda to Recife	10,0 km	Olinda, PE	Recife, PE
		1038	Implementation of Beltway Corridor III in Recife	16,0 km	Recife, PE	Recife, PE
		1039	Implementation of Radial Sul Corridor in Recife	6,0 km	Recife, PE	Recife, PE
		1210	Implementation of BRT on Avenida Norte Miguel Arraes in Recife	8,9 km	Recife, PE	Recife, PE
		3883	Implementation of Beltway Corridor IV from Abreu e Lima to Jaboatão dos Guararapes	30,0 km	Abreu e Lima, PE	Jaboatão dos Guararapes, PE
		3907	Implementation of BRT on Avenida Agamenon Magalhães in Recife	4,7 km	Igarassu, PE	Camaragibe, PE

Table 36 - Minimum Investment - Metropolitan Region of Recife

Infrastructure	Category	Scale	Minimum Investment (R\$)
Waterway	Implementation of waterway transportation corridor	19,9 km	540.875.978,84
Rail	Construction of metro or urban train	9,0 km	7.197.688.176,19
Road	Urban road adjustment	4,1 km	128.957.657,62
	Urban road construction	16,1 km	730.381.973,19
	Implementation of express lane or BRT or RTM	127,1 km	2.611.634.328,66
<b>Total</b>			<b>11.209.538.114,50</b>



## 6.9 CURITIBA METROPOLITAN REGION



Notes:  
 Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
 Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 37 - List of projects of the Curitiba Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Construction of metro or urban train	0864	Construction of Blue Line of metro in Curitiba	22,0 km	Curitiba, PR	Curitiba, PR	
Road	Adjustment of express lane or BRT or RTM	1157	Implementation and modernization of BRTs in Curitiba	106,0 km	Curitiba, PR	Curitiba, PR	
		2809	Adjustment of East-West BRT in Curitiba	20,7 km	Curitiba, PR	Curitiba, PR	
	Urban road adjustment	0852	Adjustment of Airport-Bus/Railway Thoroughfare in Curitiba	14,8 km	Curitiba, PR	Curitiba, PR	
		0853	Adjustment of Airport-Bus/Railway Thoroughfare in São José dos Pinhais	4,5 km	São José dos Pinhais, PR	São José dos Pinhais, PR	
	Implementation of express lane or BRT or RTM	0854	Implementation of preferential bus lane on Avenida Cândido de Abreu in Curitiba	0,9 km	Curitiba, PR	Curitiba, PR	
		0855	Expansion of BRT Green Line in Curitiba	13,0 km	Curitiba, PR	Curitiba, PR	
		0857	Expansion of Marechal Floriano BRT in São José dos Pinhais	3,4 km	São José dos Pinhais, PR	São José dos Pinhais, PR	
		2808	Implementation of Inter II BRT in Curitiba	38,0 km	Curitiba, PR	Curitiba, PR	
	Terminal	Terminal adjustment	0861	Adjustment of Santa Cândida Terminal in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		Terminal construction	1161	Construction and adjustment of urban passenger bus terminals in Curitiba	5 un	Curitiba, PR	Curitiba, PR

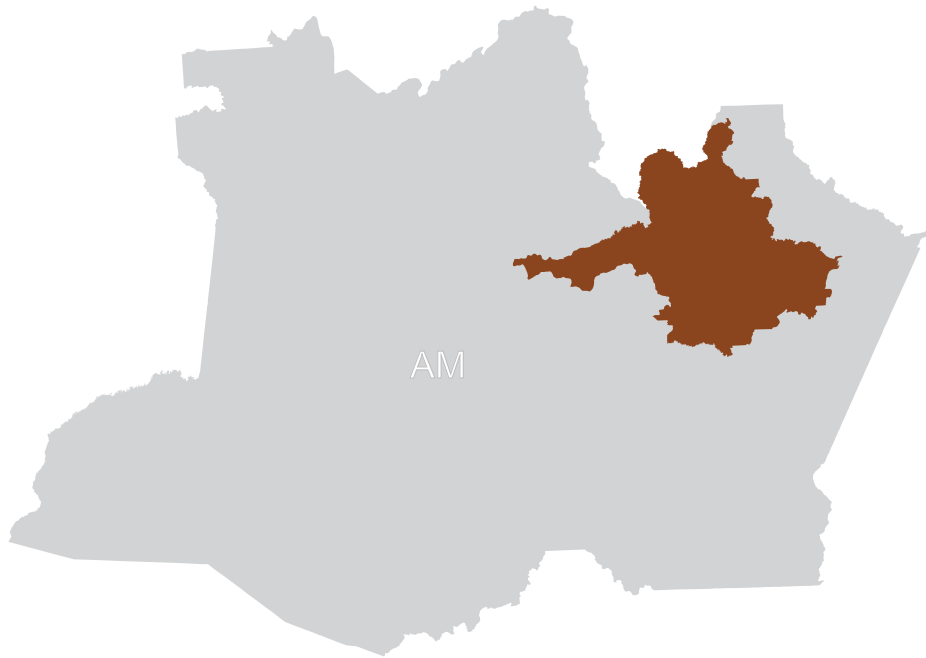


Table 38 - Minimum Investment - Metropolitan Region of Curitiba

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of metro or urban train	22,0 km	7.419.864.026,40
Road	Adjustment of express lane or BRT or RTM	126,7 km	4.310.645.981,47
	Urban road adjustment	19,3 km	53.558.657,75
	Implementation of express lane or BRT or RTM	55,3 km	1.268.267.630,23
Terminal	Terminal adjustment	1 un	7.743.392,52
	Terminal construction	5 un	210.664.044,18
<b>Total</b>			<b>13.270.743.732,55</b>



## 6.10 MANAUS METROPOLITAN REGION



### Municipalities with projects proposed

Manaus

**Main municipality**  
Manaus

**Number of municipalities**  
13

**Area (Km<sup>2</sup>)**  
127.287,8

**2017 Population**  
2.612.747

**Pop. density (inhab./km<sup>2</sup>)**  
20,5

**GDP per capita**  
29.076,19

**2015 GDP - MR (R\$ millions)**  
73,39

**PARTICIPATION Agricultural GDP**  
3,4%

**PARTICIPATION Industry GDP**  
37,9%

**PARTICIPATION Services GDP**  
58,7%

### Types of interventions



Urban road



Urban train, metro, monorail, LRT and/or atmospheric railway



Express lane, BRT e/ou VLP



Passenger waterway



Passenger station and/or terminal

**Notes:**

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 39 - List of projects of the Manaus Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of monorail or LRT or atmospheric railway	0826	Construction of the North-Center Line of monorail in Manaus	19,9 km	Manaus, AM	Manaus, AM
Road	Implementation of express lane or BRT or RTM	0825	Implementation of East-South BRT in Manaus	19,0 km	Manaus, AM	Manaus, AM
		1214	Implementation of bus lane on Avenidas Flores and Torres in Manaus	17,3 km	Manaus, AM	Manaus, AM

Table 40 - Minimum Investment - Metropolitan Region of Manaus

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of monorail or LRT or atmospheric railway	19,9 km	2.746.495.059,86
Road	Implementation of express lane or BRT or RTM	36,3 km	670.271.075,59
<b>Total</b>			<b>3.416.766.135,45</b>





## 6.11 GOIÂNIA METROPOLITAN REGION



### Municipalities with projects proposed

Aparecida de Goiânia  
Goiânia

Main municipality

Goiânia

Number of municipalities

20

Area (Km<sup>2</sup>)

7.344,2

2017 Population

2.493.792

Pop. density (inhab./km<sup>2</sup>)

339,6

GDP per capita

27.965,13



2015 GDP - MR  
(R\$ millions)

67,73

PARTICIPATION



Agricultural GDP

0,9%

PARTICIPATION



Industry GDP

20,8%

PARTICIPATION



Services GDP

78,3%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

#### Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

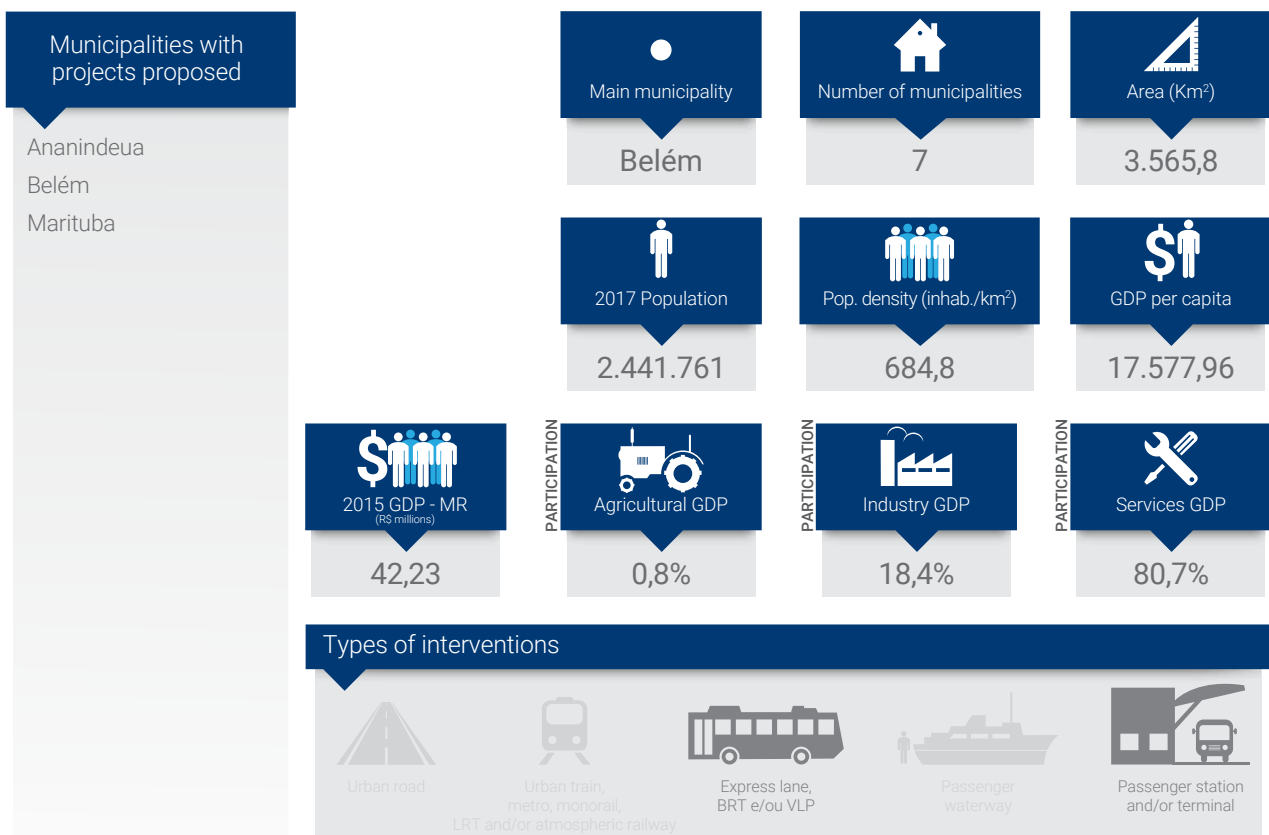
Table 41 - List of projects of the Goiânia Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of monorail or LRT or atmospheric railway	1234	Construction of LRT line in Goiânia	13,6 km	Goiânia, GO	Goiânia, GO
Road	Urban road adjustment	1236	Adjustment of Norte-South and East-West Corridors in Aparecida de Goiânia	35,6 km	Aparecida de Goiânia, GO	Aparecida de Goiânia, GO
		1235	Implementation of North-South BRT in Goiânia	22,0 km	Goiânia, GO	Goiânia, GO
	Implementation of express lane or BRT or RTM	3695	Implementation of North-South BRT in Aparecida de Goiânia	5,0 km	Aparecida de Goiânia, GO	Aparecida de Goiânia, GO
		3711	Implementation of Preferential Lane T-7 in Goiânia	10,4 km	Goiânia, GO	Goiânia, GO
		3718	Implementation of Preferential Lane T-9 in Goiânia	10,6 km	Goiânia, GO	Goiânia, GO
		3720	Implementation of Preferential Lane T-63 in Goiânia	5,7 km	Goiânia, GO	Goiânia, GO
		3721	Implementation of Preferential Lane 85 in Goiânia	7,2 km	Goiânia, GO	Goiânia, GO
		3724	Implementation of Preferential Lane 24 in Goiânia	3,4 km	Goiânia, GO	Goiânia, GO
		3725	Implementation of Independência Corridor in Goiânia	6,7 km	Goiânia, GO	Goiânia, GO

Table 42 - Minimum Investment - Metropolitan Region of Goiânia

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of monorail or LRT or atmospheric railway	13,6 km	2.282.193.811,96
Road	Urban road adjustment	35,6 km	54.479.621,34
	Implementation of express lane or BRT or RTM	71,0 km	694.687.152,70
<b>Total</b>			<b>3.031.360.586,00</b>

## 6.12 BELÉM METROPOLITAN REGION



Notes:  
 Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
 Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 43 - List of projects of the Belém Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1228	Implementation of Centenário Corridor BRT in Belém	18,9 km	Belém, PA	Belém, PA
		1229	Implementation of BRTs in Belém	33,5 km	Belém, PA	Belém, PA
		3678	Implementation of Metropolitan BRT from Belém to Marituba	10,7 km	Belém, PA	Marituba, PA
Terminal	Terminal construction	3331	Construction and adjustment of passenger terminals for integration in Belém	10 un	Belém, PA	Belém, PA

Table 44 - Minimum Investment - Metropolitan Region of Belém

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Implementation of express lane or BRT or RTM	63,1 km	803.482.126,72
Terminal	Terminal construction	10 un	73.960.951,03
<b>Total</b>			<b>877.443.077,75</b>



## 6.13 GREATER VITÓRIA METROPOLITAN REGION



### Municipalities with projects proposed

Cariacica  
Serra  
Vila Velha  
Vitória

Main municipality

Vitória

Number of municipalities

7

Area (Km<sup>2</sup>)

2.326,7

2017 Population

1.960.213

Pop. density (inhab./km<sup>2</sup>)

842,5

GDP per capita

33.673,30



2015 GDP - MR  
(R\$ millions)

64,32

PARTICIPATION



Agricultural GDP

0,3%

PARTICIPATION



Industry GDP

21,3%

PARTICIPATION



Services GDP

78,4%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

#### Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 45 - List of projects of the Greater Vitória Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Adjustment of urban road	1206	Adjustment of Avenida Alice Coutinho and Governador José Sette Highway in Cariacica	8,4 km	Cariacica, ES	Cariacica, ES
	Urban road construction	1207	Construction of South Exit in Vila Velha	6,4 km	Vila Velha, ES	Vila Velha, ES
	Implementation of express lane or BRT or RTM	0751	Implementation of 1 <sup>st</sup> stage of Greater Vitória BRT from Serra to Vila Velha	24,0 km	Serra, ES	Vila Velha, ES

Table 46 - Minimum Investment - Greater Vitória Metropolitan Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Urban road adjustment	8,4 km	78.461.177,66
	Urban road construction	6,4 km	36.132.295,65
	Implementation of express lane or BRT or RTM	24,0 km	1.381.913.310,59
<b>Total</b>			<b>1.496.506.783,90</b>



## 6.14 GREATER SÃO LUÍS METROPOLITAN REGION



### Municipalities with projects proposed

Paço do Lumiar  
Raposa  
São José de Ribamar  
São Luís

Main municipality

São Luís

Number of municipalities

13

Area (Km<sup>2</sup>)

9.304,6

2017 Population

1.619.377

Pop. density (inhab./km<sup>2</sup>)

174,0

GDP per capita

19.351,62



2015 GDP - MR  
(R\$ millions)

30,77

PARTICIPATION



Agricultural GDP

0,8%

PARTICIPATION



Industry GDP

26,7%

PARTICIPATION



Services GDP

72,5%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

#### Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.



Table 47 - List of projects of the Greater São Luís Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	3745	Implementation of preferential bus lane on Avenida Metropolitana from São Luís to Raposa	26,5 km	São Luís, MA	Raposa, MA
		3747	Implementation of Metropolitan BRT from São Luís to Paço do Lumiar	7,2 km	São Luís, MA	Paço do Lumiar, MA

Table 48 - Minimum Investment - Greater São Luís Metropolitan Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Implementation of express lane or BRT or RTM	33,7 km	316.083.347,91
<b>Total</b>			<b>316.083.347,91</b>





## 6.15 NATAL METROPOLITAN REGION



### Municipalities with projects proposed

Ceará-Mirim  
Macaíba  
Natal  
Parnamirim  
São Gonçalo do Amarante

Main municipality

Natal

Number of municipalities

14

Area (Km<sup>2</sup>)

3.558,7

2017 Population

1.596.104

Pop. density (inhab./km<sup>2</sup>)

448,5

GDP per capita

20.230,61



2015 GDP - MR  
(R\$ millions)

31,51

PARTICIPATION



Agricultural GDP

1,2%

PARTICIPATION



Industry GDP

18,6%

PARTICIPATION



Services GDP

80,3%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 49 - List of projects of the Natal Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Restoration of railway	1233	Revitalization of metropolitan train system from Ceará-Mirim to Parnamirim	56,2 km	Ceará-Mirim, RN	Parnamirim, RN
Rodoviária	Adjustment of express lane or BRT or RTM	3638	Restoration of preferential bus lanes in Natal	27,0 km	Natal, RN	Natal, RN
	Urban road adjustment	0866	Restoration of pavement on Avenidas Capitão-Mor Gouveia and Jerônimo Câmara in Natal	6,1 km	Natal, RN	Natal, RN
		1495	Adjustment of Avenida Engenheiro Roberto Freire in Natal	4,0 km	Natal, RN	Natal, RN
	Urban road construction	0865	Expansion of Avenida Prudente de Moraes from Natal to Parnamiri	4,7 km	Natal, RN	Parnamirim, RN
		0868	Construction of North and South access roads to São Gonçalo do Amarante Airport	25,0 km	Macaíba, RN	São Gonçalo do Amarante, RN
	Duplication of urban road	1238	Duplication of Moema Tinoco/Conselheiro Tristão and Fronteiras corridors in Natal	11,2 km	Natal, RN	Natal, RN

Table 50 - Minimum Investment - Metropolitan Region of Natal

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Restoration of railway	56,2 km	627.108.116,94
Road	Adjustment of express lane or BRT or RTM	27,0 km	176.412.814,60
	Urban road adjustment	10,1 km	484.862.431,88
	Urban road construction	29,7 km	78.553.379,02
	Duplication of urban road	11,2 km	143.287.421,53
<b>Total</b>			<b>1.510.224.163,97</b>

## 6.16 MACEIÓ METROPOLITAN REGION



### Municipalities with projects proposed

Maceió  
Rio Largo

**Main municipality**  
Maceió

**Number of municipalities**  
13

**Area (Km<sup>2</sup>)**  
2.862,9

**2017 Population**  
1.352.241

**Pop. density (inhab./km<sup>2</sup>)**  
472,3

**GDP per capita**  
18.771,11

**2015 GDP - MR (R\$ millions)**  
25,01

**PARTICIPATION Agricultural GDP**  
3,2%

**PARTICIPATION Industry GDP**  
18,8%

**PARTICIPATION Services GDP**  
78,0%

### Types of interventions



Notes:  
Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 51 - List of projects of the Maceió Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of monorail or LRT or atmospheric railway	3484	Construction of LRT line from Rio Largo to Maceió	20,1 km	Rio Largo, AL	Maceió, AL
		3968	Construction of LRT line in Maceió	3,7 km	Maceió, AL	Maceió, AL

Table 52 - Minimum Investment - Metropolitan Region of Maceió

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of monorail or LRT or atmospheric railway	23,8 km	1.522.174.288,77
<b>Total</b>			<b>1.522.174.288,77</b>



## 6.17 JOÃO PESSOA METROPOLITAN REGION



### Municipalities with projects proposed

Bayeux  
Cabedelo  
João Pessoa  
Santa Rita

Main municipality

João Pessoa

Number of municipalities

12

Area (Km<sup>2</sup>)

2.793,5

2017 Population

1.282.227

Pop. density (inhab./km<sup>2</sup>)

459,0

GDP per capita

21.397,81



2015 GDP - MR  
(R\$ millions)

26,83

PARTICIPATION



Agricultural GDP

1,5%

PARTICIPATION



Industry GDP

22,5%

PARTICIPATION



Services GDP

76,1%

### Types of interventions



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 53 - List of projects of the João Pessoa Metropolitan Region

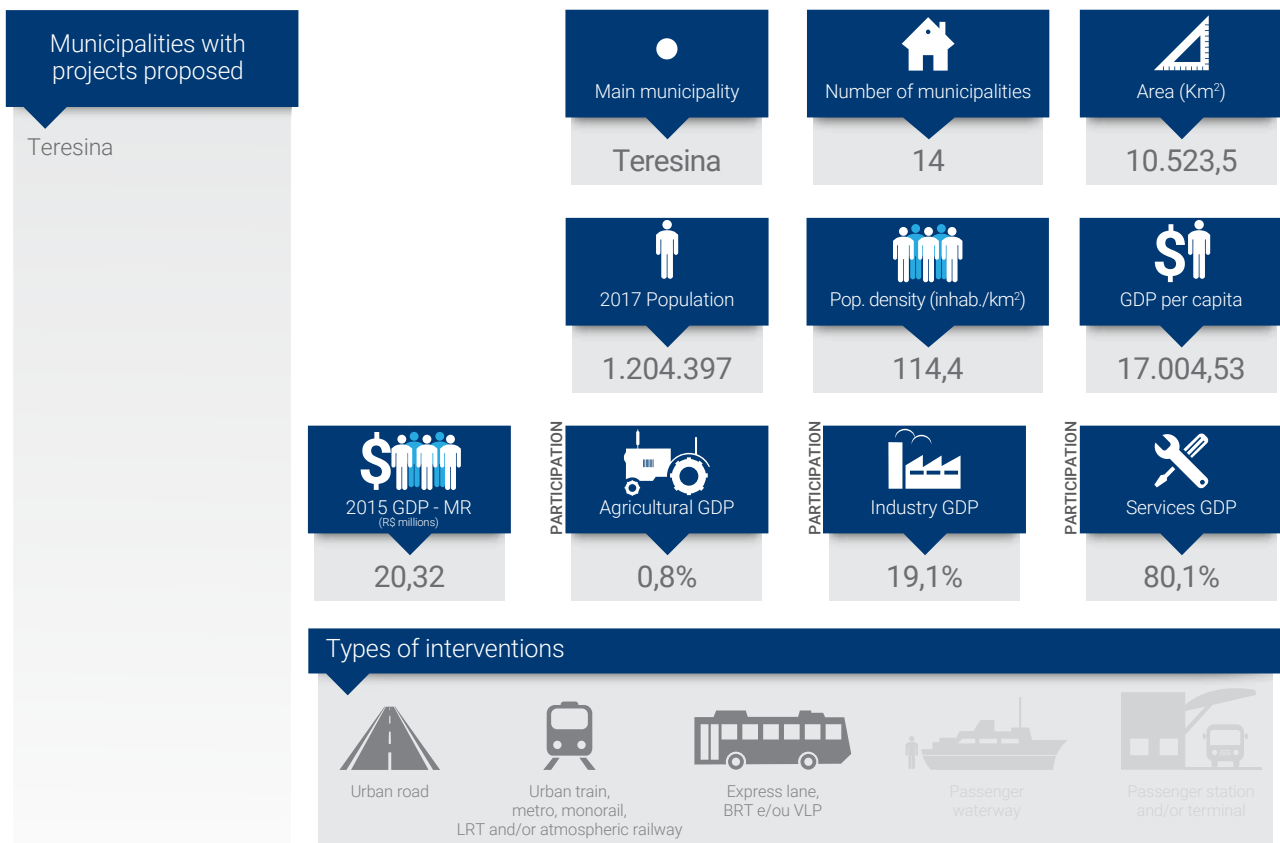
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Restoration of railway	3505	Restoration of metropolitan train line from Santa Rita to Cabedelo	30,0 km	Santa Rita, PB	Cabedelo, PB
Road	Implementation of express lane or BRT or RTM	3748	Implementation of BRT in João Pessoa	50,3 km	João Pessoa, PB	João Pessoa, PB

Table 54 - Minimum Investment - Metropolitan Region of João Pessoa

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Restoration of railway	30,0 km	372.563.074,72
Road	Implementation of express lane or BRT or RTM	50,3 km	250.337.245,96
<b>Total</b>			<b>622.900.320,68</b>



## 6.18 INTEGRATED DEVELOPMENT REGION OF GREATER TERESINA



Notes:  
 Data refer to all municipalities in the Integrated Development Region and not only to those with urban transportation projects proposed.  
 Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 55 - List of projects of the Greater Teresina Integrated Development Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of monorail or LRT or atmospheric railway	3497	Construction of LRT line in Teresina	13,6 km	Teresina, PI	Teresina, PI
Road	Adjustment of express lane or BRT or RTM	3765	Implementation of Operations Control Center in Teresina	1 un	Teresina, PI	Teresina, PI
	Urban road adjustment	3760	Construction of bridge over Poti River in Teresina	-	Teresina, PI	Teresina, PI
		3750	Implementation of North Corridor II in Teresina	9,7 km	Teresina, PI	Teresina, PI
		3752	Implementation of South Corridor I in Teresina	5,5 km	Teresina, PI	Teresina, PI
	Implementation of express lane or BRT or RTM	3754	Implementation of East-Southeast Corridor I in Teresina	-	Teresina, PI	Teresina, PI
		3758	Implementation of preferential lanes in Teresina	44,4 km	Teresina, PI	Teresina, PI
		3759	Implementation of North-East Corridor in Teresina	12,9 km	Teresina, PI	Teresina, PI

Table 56 - Minimum Investment - Integrated Development Region of Greater Teresina

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Construction of monorail or LRT or atmospheric railway	13,6 km	674.305.179,78
Road	Adjustment of express lane or BRT or RTM	1 un	48.059.438,26
	Urban road adjustment	-	57.346.314,39
	Implementation of express lane or BRT or RTM	72,5 km	179.491.477,27
<b>Total</b>			<b>959.202.409,70</b>

Note: No information for was found for the extensions of projects 3754 and 3760, which belong to the urban road adjustment category.



## 6.19 FLORIANÓPOLIS METROPOLITAN REGION



### Municipalities with projects proposed

Florianópolis

**Main municipality**  
Florianópolis

**Number of municipalities**  
22

**Area (Km<sup>2</sup>)**  
7.470,7

**2017 Population**  
1.172.076

**Pop. density (inhab./km<sup>2</sup>)**  
156,9

**GDP per capita**  
36.125,24

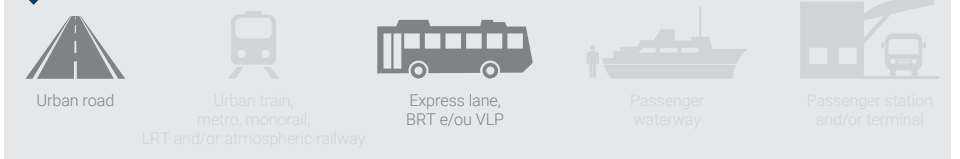
**2015 GDP - MR (R\$ millions)**  
40,89

**PARTICIPATION Agricultural GDP**  
2,2%

**PARTICIPATION Industry GDP**  
16,9%

**PARTICIPATION Services GDP**  
80,9%

### Types of interventions



Notes:  
Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed.  
Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 57 - List of projects of the Florianópolis Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rodoviária	Urban road construction	2154	Construction of new access road to Hercílio Luz Airport	8,7 km	Florianópolis/SC	Florianópolis/SC
	Duplication of urban road	1178	Duplication of Rua Deputado Antônio Edu Vieira in Florianópolis	1,3 km	Florianópolis/SC	Florianópolis/SC
	Implementation of express lane or BRT or RTM	1172	Implementation of Central Ring Road Corridor in Florianópolis	17,0 km	Florianópolis/SC	Florianópolis/SC
		3640	Implementation of preferential bus lanes in Florianópolis	19,7 km	Florianópolis/SC	Florianópolis/SC

Table 58 - Minimum Investment - Metropolitan Region of Florianópolis

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Urban road construction	8,7 km	255.772.229,58
	Duplication of urban road	1,3 km	17.433.475,97
	Implementation of express lane or BRT or RTM	36,7 km	317.880.147,25
<b>Total</b>			<b>591.085.852,80</b>



## 6.20 CUIABÁ RIVER VALLEY METROPOLITAN REGION



### Municipalities with projects proposed

Cuiabá  
Várzea Grande



Main municipality

Cuiabá



Number of municipalities

13



Area (Km<sup>2</sup>)

74.883,3



2017 Population

1.005.690



Pop. density (inhab./km<sup>2</sup>)

13,4



GDP per capita

30.504,83



2015 GDP - MR  
(R\$ millions)

30,21

PARTICIPATION



Agricultural GDP

2,8%

PARTICIPATION



Industry GDP

19,6%

PARTICIPATION



Services GDP

77,6%

### Types of intervenções



Urban road



Urban train,  
metro, monorail,  
LRT and/or atmospheric railway



Express lane,  
BRT e/ou VLP



Passenger  
waterway



Passenger station  
and/or terminal

#### Notes:

Data refer to all municipalities in the Metropolitan Region and not only to those with urban transportation projects proposed. Passenger station/terminal projects may be included in urban passenger metro/rail or road transportation projects. In these cases, there will not be separate interventions listed under Terminal.

Table 59 - List of projects of the Cuiabá River Valley Metropolitan Region

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Implementation of waterway transportation corridor	3330	Implementation of urban passenger waterway corridor from Cuiabá to Várzea Grande	12,0 km	Cuiabá, MT	Várzea Grande, MT
Rail	Construction of monorail or LRT or atmospheric railway	1492	Construction of LRT lines from Várzea Grande to Cuiabá	22,2 km	Várzea Grande, MT	Cuiabá, MT
Road	Implementation of express lane or BRT or RTM	1494	Implementation of BRT on Avenida Dante Oliveira in Cuiabá	13,1 km	Cuiabá, MT	Cuiabá, MT
		3811	Implementation of BRS in Cuiabá	23,4 km	Cuiabá, MT	Cuiabá, MT

Table 60 - Minimum Investment - Metropolitan Region of Cuiabá River Valley

Infrastructure	Category	Scale	Minimum Investment (R\$)
Waterway	Implementation of waterway transportation corridor	12,0 km	34.621.108,48
Rail	Construction of monorail or LRT or atmospheric railway	22,2 km	1.229.616.604,73
Road	Implementation of express lane or BRT or RTM	36,5 km	236.193.706,37
<b>Total</b>			<b>1.500.431.419,58</b>



## 6.21 LIST OF PROJECTS OF OTHER METROPOLITAN AREAS AND URBAN CENTERS

Table 61 - List of projects in other MRs, IDRs and conurbations

Metropolitan Region	Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Jundiaí Urban Area	Road	Implementation of express lane or BRT or RTM	3397	Implementation of BRT in Jundiaí	4,5 km	Jundiaí, SP	Jundiaí, SP
Piracicaba Urban Area	Road	Implementation of express lane or BRT or RTM	3376	Implementation of preferential bus lanes in Piracicaba	29,5 km	Piracicaba, SP	Piracicaba, SP
Southern Urban Agglomeration	Road	Urban road construction	1082	Paving of urban roads in Pelotas	16,1 km	Pelotas, RS	Pelotas, RS
		Implementation of express lane or BRT or RTM	1081	Implementation and restoration of preferential bus lanes in Pelotas	10,0 km	Pelotas, RS	Pelotas, RS
Administrative Integrated Development Region of Polo Petrolina, PE and Juazeiro, BA	Rail	Construction of monorail or LRT or atmospheric	3490	Construction of LRT line in Petrolina	4,8 km	Petrolina, PE	Petrolina, PE
Aracaju Metropolitan Region	Road	Implementation of express lane or BRT or RTM	0757	Implementation of bus lanes in Aracaju	-	Aracaju, SE	Aracaju, SE
			3649	Implementation of Gasoduto/ Rio de Janeiro and João Rodrigues/ Euclides Figueiredo corridors in Aracaju Figueiredo in Aracaju	5,5 km	Aracaju, SE	Aracaju, SE
Metropolitan Region of Baixada Santista	Rail	Construction of monorail or LRT or atmospheric railway	1201	Construction of Baixada Santista LRT from São Vicente to Santos	27,0 km	São Vicente, SP	Santos, SP
	Road	Implementation of express lane or BRT or RTM	3377	Implementation of preferential bus lanes in Praia Grande	21,8 km	Praia Grande, SP	Praia Grande, SP
			3378	Implementation of preferential bus lanes in Santos	18,0 km	Santos, SP	Santos, SP
Campinas Metropolitan Region	Road	Implementation of express lane or BRT or RTM	2777	Implementation of Vereador Biléo Soares Metropolitan Corridor from Nova Odessa to Santa Bárbara d'Oeste	24,3 km	Nova Odessa, SP	Santa Bárbara d'Oeste, SP
			3381	Implementation of BRTs in Campinas	36,6 km	Campinas, SP	Campinas, SP

Table 61 - List of projects in other MRs, IDRs and conurbations

continuation

Metropolitan Region	Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Boa Vista Metropolitan Region	Road	Implementation of express lane or BRT or RTM	3896	Implementation of preferential lanes in Boa Vista	39,0 km	Boa Vista, RR	Boa Vista, RR
Serra Gaúcha Metropolitan Region	Road	Adjustment of express lane or BRT or RTM	3594	Adjustment of preferential bus lanes in Caxias do Sul	2,6 km	Caxias do Sul, RS	Caxias do Sul, RS
Sorocaba Metropolitan Region	Road	Implementation of express lane or BRT or RTM	3387	Implementation of BRTs in Sorocaba	35,1 km	Sorocaba, SP	Sorocaba, SP
Paraíba Valley and North Coast Metropolitan Region	Road	Implementation of express lane or BRT or RTM	3385	Implementation of BRT in São José dos Campos	51,2 km	São José dos Campos, SP	São José dos Campos, SP
Feira de Santana Metropolitan Region	Road	Implementation of express lane or BRT or RTM	3540	Implementation of BRT lanes on Getúlio Vargas and João Durval in Feira de Santana	8,0 km	Feira de Santana, BA	Feira de Santana, BA
Foz do Itajaí River Metropolitan Region	Road	Urban road adjustment	1199	Adjustment of Avenida Santa Catarina in Camboriú	2,5 km	Camboriú, SC	Camboriú, SC
Londrina Metropolitan Region	Road	Implementation of express lane or BRT or RTM	1144	Implementation of BHLS in Londrina	27,0 km	Londrina, PR	Londrina, PR
Macapá Metropolitan Region	Terminal	Terminal construction	3900	Construction and adjustment of urban passenger bus terminals in Macapá	11 un	Macapá, AP	Macapá, AP
Maringá Metropolitan Region	Road	Urban road adjustment	1156	Adjustment of urban roads in Maringá	16,6 km	Maringá, PR	Maringá, PR
North/Northeast Santa Catarina Metropolitan Region	Road	Urban road adjustment	1169	Adjustment of Rua Nove de Março in Joinville	1,0 km	Joinville, SC	Joinville, SC
			1171	Implementation of horizontal and vertical signs on urban roads in Joinville	1,0 km	Joinville, SC	Joinville, SC
			1165	Expansion of Rua Max Colin in Joinville	1,7 km	Joinville, SC	Joinville, SC
			1166	Expansion of Rua Almirante Jaceguay in Joinville	6,6 km	Joinville, SC	Joinville, SC
			3623	Implementation of preferential bus lanes in Joinville	55,0 km	Joinville, SC	Joinville, SC

Table 61 - List of projects in other MRs, IDRs and conurbations

continuation

Metropolitan Region	Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Metropolitan Region of Palmas	Waterway	Implementation of waterway transportation	3328	Implementation of urban passenger waterway corridor from Palmas to Porto Nacional	15,0 km	Palmas, TO	Porto Nacional, TO
			3741	Implementation of Palmas Sul BRT in Palmas	15,5 km	Palmas, TO	Palmas, TO
			3742	Implementation of Palmas Norte BRT in Palmas	14,9 km	Palmas, TO	Palmas, TO
Ribeirão Preto Metropolitan Region	Road	Implementation of express lane or BRT or RTM	3399	Implementation of preferential bus lanes in Ribeirão Preto	56,0 km	Ribeirão Preto, SP	Ribeirão Preto, SP
Itajaí Valley Metropolitan Region	Road	Implementation of express lane or BRT or RTM	1180	Implementation of Southern Structural Corridor in Blumenau	4,9 km	Blumenau, SC	Blumenau, SC
			2831	Implementation of North Structural Corridor in Blumenau	9,0 km	Blumenau, SC	Blumenau, SC
Porto Velho Metropolitan Region	Road	Urban road adjustment	3973	Implementation of preferential lanes in Porto Velho	15,6 km	Porto Velho, RO	Porto Velho, RO
		Implementation of express lane or BRT or RTM	3974	Implementation of two-way streets on Pedro da Rocha and Miguel Chakian streets in Porto Velho	3,1 km	Porto Velho, RO	Porto Velho, RO

Note: No information found for extension of project 0757.

Table 62 - List of projects of other urban areas

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Construction of monorail or LRT or atmospheric railway	1059	Construction of atmospheric railway line in Campos dos Goytacazes	13,0 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		1068	Construction of LRT line in Macaé	23,0 km	Macaé, RJ	Macaé, RJ
		1069	Construction of LRT line in Nova Friburgo	16,0 km	Nova Friburgo, RJ	Nova Friburgo, RJ
Road	Adjustment of express lane or BRT or RTM	3877	Implementation of Operations Control Center in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
		3891	Modernization of Integrated Management Operations Control Center in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
	Adjustment of urban road	1064	Adjustment of urban roads in Petrópolis	11,0 km	Petrópolis, RJ	Petrópolis, RJ
		3885	Restoration of pavement on urban roads in Vitória da Conquista	31,0 km	Vitória da Conquista, BA	Barra do Choça, BA
	Urban road construction	3942	Paving of access road to dry port in Foz do Iguaçu	0,6 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
	Implementation of lane or BRT or RTM	1065	Implementation of Arco de Centralidades Corridor in Volta Redonda	15,0 km	Volta Redonda, RJ	Volta Redonda, RJ
		1083	Implementation of BRT in Santa Maria	43,2 km	Santa Maria, RS	Santa Maria, RS
		1142	Implementation of the East, North, West, Southwest and South Structural Corridors in Uberlândia	58,2 km	Uberlândia, MG	Uberlândia, MG
		1143	Implementation of preferential bus lanes in Foz do Iguaçu	17,0 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1152	Implementation of Vetor Sudoeste BRT in Uberaba	6,4 km	Uberaba, MG	Uberaba, MG
		1154	Implementation of Vetor Sudeste BRT in Uberaba	3,7 km	Uberaba, MG	Uberaba, MG
		3375	Implementation of preferential bus lanes in São José do Rio Preto	42,0 km	São José do Rio Preto, SP	São José do Rio Preto, SP
		3457	Implementation of preferential bus lanes in Juiz de Fora	6,7 km	Juiz de Fora, MG	Juiz de Fora, MG



Table 62 - List of projects of other urban areas

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Adjustment of express lane or BRT or RTM	3459	Implementation of preferential lanes and preferential bus lanes in Montes Claros	5,9 km	Montes Claros, MG	Montes Claros, MG
		3527	Implementation of the Southwest - East and East - Southwest Corridors in Governador Valadares	15,6 km	Governador Valadares, MG	Governador Valadares, MG
		3701	Implementation of bus lanes in Anápolis	47,0 km	Anápolis, GO	Anápolis, GO
		3886	Implementation of bus lanes in Rio Branco	13,3 km	Rio Branco, AC	Rio Branco, AC
Terminal	Terminal construction	3737	Construction of urban passenger bus terminals in Campo Grande	4 un	Campo Grande, MS	Campo Grande, MS

Table 63 - Minimum Investment - Other metropolitan areas and urban centers

Infrastructure	Category	Scale	Minimum Investment (R\$)
Waterway	Implementation of waterway transportation corridor	15,0 km	18.528.205,39
Rail	Construction of monorail or LRT or atmospheric railway	83,8 km	6.161.133.823,20
Road	Adjustment of express lane or BRT or RTM	2,6 km	38.584.285,37
		2 un	94.492.770,71
	Urban road adjustment	66,2 km	250.557.433,20
	Urban road construction	25,0 km	80.907.239,96
	Implementation of express lane or BRT or RTM	755,4 km	6.883.427.101,89
Terminal	Terminal construction	15 un	402.072.579,94
<b>Total</b>			<b>13.929.703.439,66</b>

07





# **CNT REGIONAL TRANSPORT AND LOGISTICS PLAN BY REGION**

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The proposals of the CNT Transport and Logistics Plan, presented in the previous chapters separately as National Integration Projects and Urban Projects, are grouped in this chapter by Region and State (FU). Presentation by region allows for a more direct evaluation of the influence and relevance of the proposed projects at the local and regional levels, as well as their potential for reducing regional disparities.

This analysis is possible since, as previously mentioned in Chapter 4, CNT Plan projects individually correspond to interventions restricted to a single state. For this reason and given the logic of the continuity of the Structural Corridors, National Integration Projects that spanned more than one state (or Urban Projects in IDRs that followed this same logic) were subdivided by state. Exceptions include some interventions in watercourses that coincide with state borders, and therefore could not be subdivided. These projects, referred to as “integrated”, comprise waterway and road (bridges) infrastructures and are identified in the tables with the abbreviation “-INT” along with their identification number<sup>71</sup>.

For this regional analysis, an infographic is presented in this chapter for each region of the country (North, Northeast, Southeast, South, and Center-West) with a summary of its geographic, demographic and socioeconomic characteristics, as well as information about the availability of transport and logistics infrastructures and movement data within these infrastructures. Next, and with the regional scope in consideration, summary tables are presented with the number of interventions per Structural Corridor and infrastructure (Urban Projects are presented as belonging to the “U” Corridor) along with the sum of the minimum investment required. Additionally, the infrastructure, category, size and minimum investment are presented.

Following the description of the regions, information about their states is presented. Similar to the regional description, infographics are displayed containing demographic, socioeconomic and infrastructure data. Subsequently, tables are presented with a list of proposed projects for each state by infrastructure and category, along with its identification number, title, the corridor to which it belongs, initial and final municipalities and size. At the end of each state section, a summary table is presented with the total interventions by infrastructure and category, together with the sum of their size and minimum investment.

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<sup>71</sup> “Integrated” projects are repeated (and accounted for) in this chapter in the tables of all regions and states through which they pass. Given this repetition, the sum of the number of projects, sizes, and amounts of the regions and states do not correspond to the total amounts of the CNT Plan.





# NORTH REGION

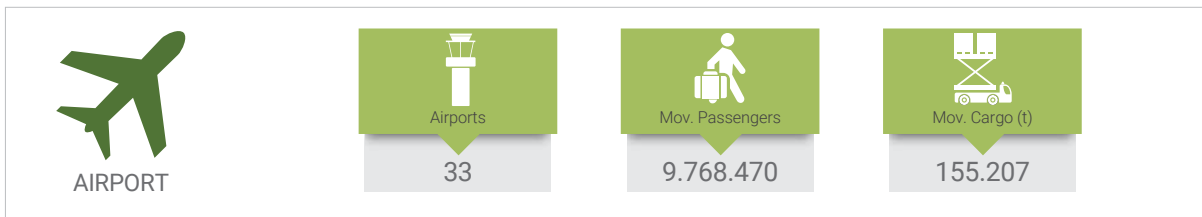
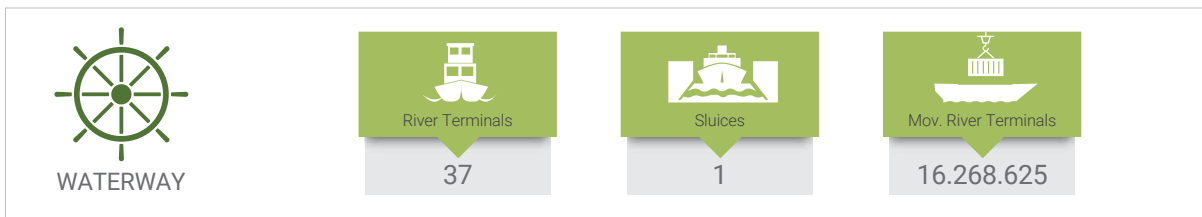
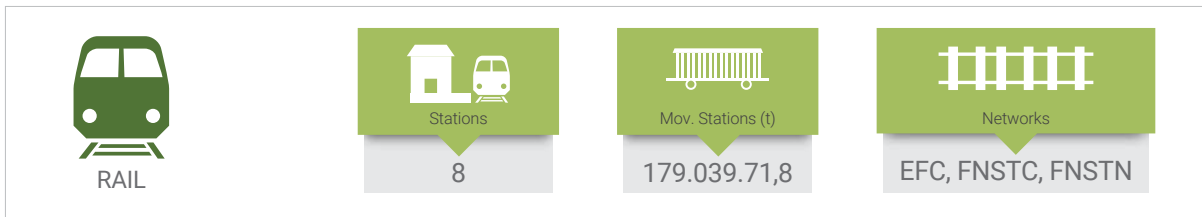
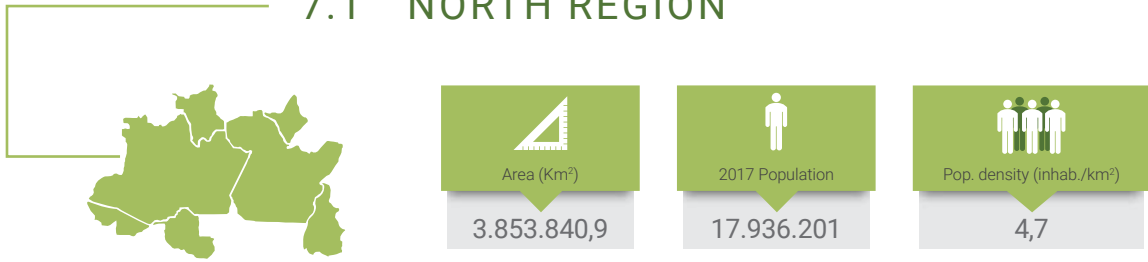
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Access North Region  
content via the  
**QR CODE** above



## 7.1 NORTH REGION



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFC - Carajás Railway; FNSTC - North-South Railway - Central Line; FNSTN - North-South Railway - North Line.



Table 64 - Number of interventions and minimum investment required, by Corridor, for the North Region

Corridor	Airport	Waterway	Rail	Waterway	Port	Road	Terminal	Total	Minimum Investment (R\$)
E1	-	-	-	-	-	-	-	-	-
E2	3	-	-	2	-	6	6	17	1.768.574.869,73
E3	9	-	5	19	1	40	15	89	108.077.305.726,86
E4	18	-	-	10	6	30	25	89	18.319.227.289,00
E5	4	-	1	11	7	10	6	39	31.048.539.732,40
E6	8	-	-	4	-	25	7	44	26.465.552.060,72
E7	5	-	3	5	-	14	12	39	34.810.215.019,24
E8	-	-	-	-	-	-	-	-	-
E9	-	-	-	-	21	-	-	21	7.276.847.717,79
U	-	1	1	-	-	11	2	15	5.542.397.739,37
<b>Total</b>	<b>47</b>	<b>1</b>	<b>10</b>	<b>51</b>	<b>35</b>	<b>136</b>	<b>73</b>	<b>353</b>	<b>233.308.660.155,11</b>

Table 65 - Minimum Investment - North Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	42 un	1.707.183.491,37
	Airport construction	5 un	349.547.704,31
Waterway	Implementation of waterway transportation lane	15,0 km	18.528.205,39
Rail	Railway construction	5.839,0 km	65.415.962.868,27
	Construction of monorail or LRT or atmospheric railway	19,9 km	2.746.495.059,86
Waterway	Channel opening	1.004,0 km	5.841.767.305,74
	Waterway adjustment	18.590,0 km	36.627.275.096,93
	Cargo riverboat	21 un	24.009.790.178,75
Port	Waterway access to port	4.500.000,0 m³	84.891.217,53
	Land access to the port	18,3 km	168.754.358,79
	Port area	26 un	3.172.217.037,54
	Port construction	14 un	15.161.367.317,76

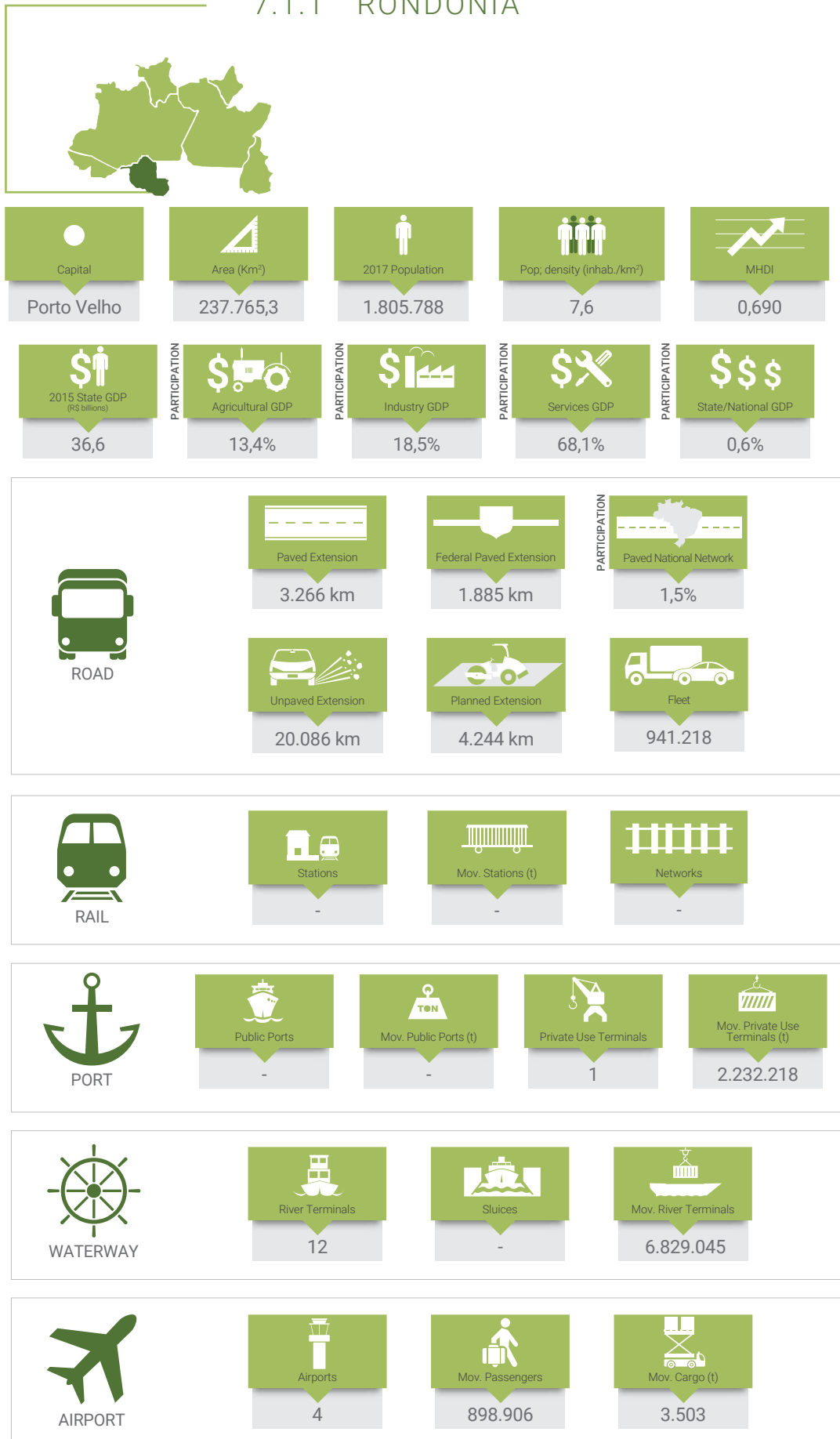
Table 65 - Minimum Investment - North Region

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Road adjustment	3.052,8 km	1.957.211.424,62
	Urban road adjustment	3,1 km	83.615,14
	Road construction	2.415,0 km	11.482.627.837,33
	Road duplication	2.560,4 km	29.594.002.243,41
	Implementation of express lane or BRT or RTM	197,7 km	2.534.843.283,79
	Paving of road	5.573,1 km	19.909.323.677,15
	Restoration of pavement on road	2.995,8 km	9.097.391.342,40
Terminal	Terminal adjustment	5 un	103.854.392,29
	Terminal construction	70 un	3.083.094.921,55
	Terminal construction - Urban	21 un	242.447.575,19
<b>Total</b>			<b>233.308.660.155,11</b>



## 7.1.1 RONDÔNIA



Note: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Table 66 - Project list - Rondônia

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1536	Expansion of runway and aircraft yard system at Ji-Paraná Airport	1 un	Ji-Paraná, RO	Ji-Paraná, RO
		1641	Expansion of cargo terminal at Governador Jorge Teixeira de Oliveira Airport in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO
		1642	Expansion of passenger terminal and aircraft yard at Governador Jorge Teixeira de Oliveira Airport in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO
		1643	Implementation of air navigation groups at Vilhena Airport	1 un	Vilhena, RO	Vilhena, RO
		2987	Expansion of runway at Ariquemes Airport	1 un	Ariquemes, RO	Ariquemes, RO
		2992	Implementation of air navigation aids at Cacoal Airport	1 un	Cacoal, RO	Cacoal, RO
		2993	Expansion of passenger terminal at Cacoal Airport	1 un	Cacoal, RO	Cacoal, RO
	Airport construction	2990	Construction of passenger terminal at Ji-Paraná Airport	1 un	Ji-Paraná, RO	Ji-Paraná, RO
Rail	Railway construction	1384	Construction of Transcontinental Railway from Vilhena to Porto Velho	1.173,0 km	Vilhena, RO	Porto Velho, RO
Waterway	Channel opening	1327	Rock removal at Madeira and Mamoré waterways from Guajará-Mirim to Porto Velho	415,0 km	Guajará-Mirim, RO	Porto Velho, RO
	Waterway adjustment	2874-INT	Dredging and rock removal at Guaporé and Mamoré river waterways from Vila Bela da Santíssima Trindade to Guajará-Mirim	1.412,0 km	Vila Bela da Santíssima Trindade, MT	Guajará-Mirim, RO
		0217-INT	Signaling and beacon installation at Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		1323-INT	Dredging of Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		2875-INT	Rock removal at Madeira River waterway from Porto Velho to Manicoré	603,0 km	Porto Velho, RO	Manicoré, AM

Table 66 - Project list - Rondônia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Cargo riverboat	0718	Construction of the Jirau sluice on the Madeira River waterway	1 un	Porto Velho, RO	Porto Velho, RO
		0719	Construction of the Santo Antônio sluice on the Madeira River waterway	1 un	Porto Velho, RO	Porto Velho, RO
		1312	Construction of the Abunã sluice on the Madeira River waterway	1 un	Porto Velho, RO	Porto Velho, RO
Road	Road adjustment	2229	Adjustment of crossing on BR-364 in Porto Velho	10,4 km	Porto Velho, RO	Porto Velho, RO
		2577	Implementation of signs on BR-364 road in Porto Velho	26,4 km	Porto Velho, RO	Porto Velho, RO
		3950	Implementation of signs on BR-421 and BR-425 from Nova Mamoré to Guajará-Mirim	50,0 km	Nova Mamoré, RO	Guajará-Mirim, RO
		3957	Construction of bridges on BR-429 in the state of Rondônia	1,0 km	Alvorada d'Oeste, RO	Costa Marques, RO
		3958	Construction of bridge on BR-364 over Madeira River in Porto Velho	3,9 km	Porto Velho, RO	Porto Velho, RO
		3959	Construction of bridge on BR-425 over Mamoré River in Guajará-Mirim	12,9 km	Guajará-Mirim, RO	Guajará-Mirim, RO
		3960	Construction of bridges on BR-425 in the state of Rondônia	0,2 km	Nova Mamoré, RO	Nova Mamoré, RO
	Urban road adjustment	3962	Adjustment of BR-364 road in Porto Velho	60,0 km	Porto Velho, RO	Porto Velho, RO
		3974	Implementation of twoway streets on Pedro da Rocha and Miguel Chakian streets in Porto Velho	3,1 km	Porto Velho, RO	Porto Velho, RO
	Road construction	2222	Construction of Porto Velho North Bypass on BR-319	32,9 km	Porto Velho, RO	Porto Velho, RO
		2223	Construction of Porto Velho South Bypass on BR-364	12,0 km	Porto Velho, RO	Porto Velho, RO
		2230	Construction of crossing on BR-364 road in Presidente Médici	7,0 km	Presidente Médici, RO	Presidente Médici, RO
		2231	Construction of crossing on BR-364 road in Ouro Preto do Oeste	8,0 km	Ouro Preto do Oeste, RO	Ouro Preto do Oeste, RO

Table 66 - Project list - Rondônia

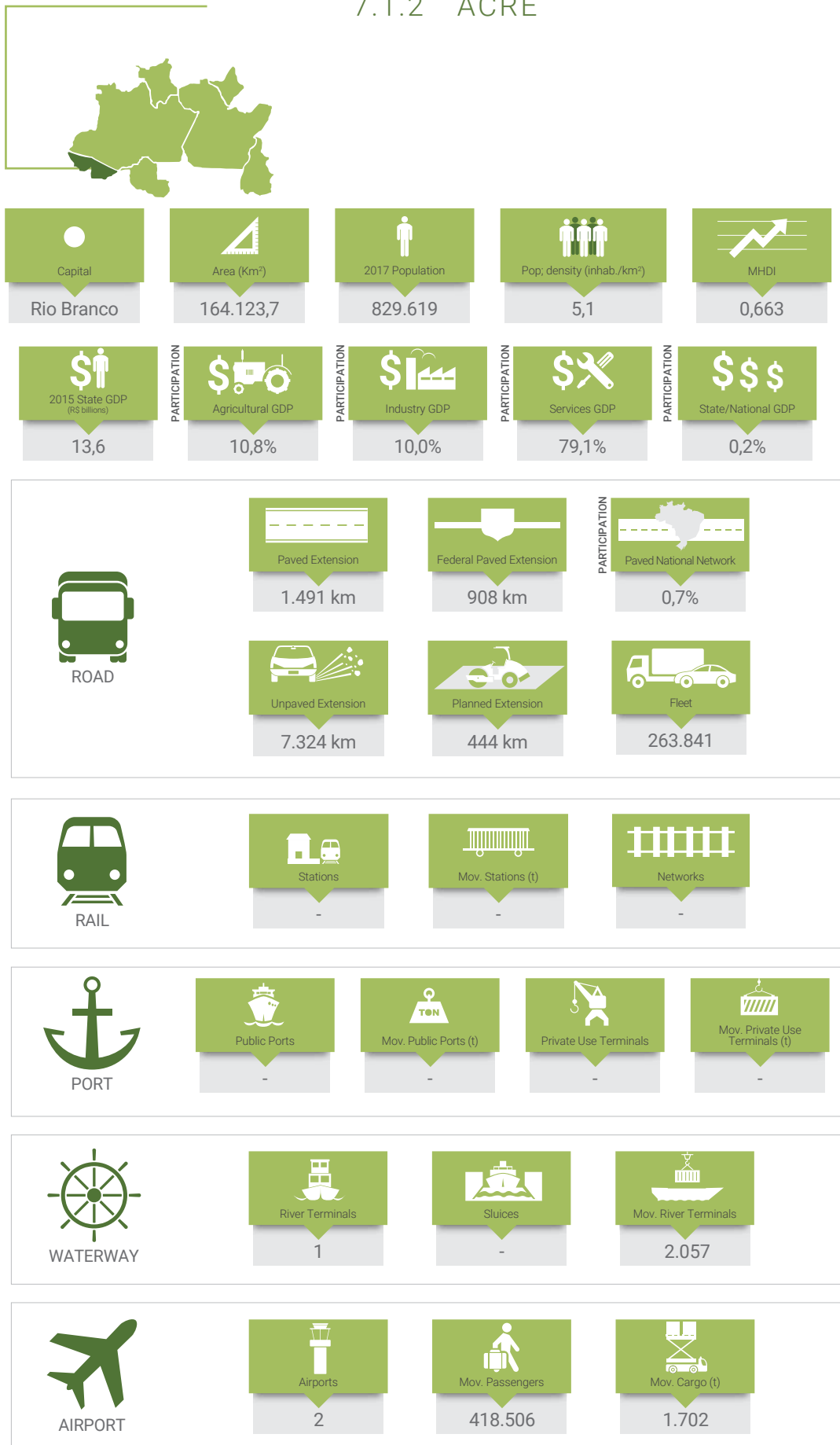
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Road	Road duplication	2372	Duplication of BR-364 from Vilhena to Porto Velho	666,3 km	Vilhena, RO	Porto Velho, RO	
		3921	Duplication of BR-319 road in Porto Velho	56,0 km	Porto Velho, RO	Porto Velho, RO	
	Implementation of express lane or BRT or RTM	3973	Implementation of preferential lanes in Porto Velho	15,6 km	Porto Velho, RO	Porto Velho, RO	
	Paving of road	0675	Paving of BR-174 road in Vilhena	45,7 km	Vilhena, RO	Vilhena, RO	
		0677	Paving of BR-421 from Monte Negro to Campo Novo de Rondônia	31,5 km	Monte Negro, RO	Campo Novo de Rondônia, RO	
	Restoration of pavement on road	3914	Restoration of pavement on BR-174 in Vilhena	33,2 km	Vilhena, RO	Vilhena, RO	
		3936	Restoration of pavement on BR-421 from Ariquemes to Monte Negro	69,3 km	Ariquemes, RO	Monte Negro, RO	
		3951	Restoration of pavement on BR-435 from Vilhena to Pimenteiras do Oeste	135,2 km	Vilhena, RO	Pimenteiras do Oeste, RO	
	Terminal	Terminal adjustment	2885	Adjustment and expansion of Port of Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO
		Terminal construction	1799	Construction of rail freight terminals in Vilhena	1 un	Vilhena, RO	Vilhena, RO
1868			Construction of waterway cargo terminal in Porto Chuelo in Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO	
1869			Construction of waterway terminal in Cabixi	1 un	Cabixi, RO	Cabixi, RO	
2050			Construction of container terminal in Port of Porto Velho	1 un	Porto Velho, RO	Porto Velho, RO	
2444			Construction of mixed waterway terminal in Guajará-Mirim	1 un	Guajará-Mirim, RO	Guajará-Mirim, RO	
2445			Construction of waterway terminal in Costa Marques	1 un	Costa Marques, RO	Costa Marques, RO	
2446			Construction of waterway terminal in Pimenteiras do Oeste	1 un	Pimenteiras do Oeste, RO	Pimenteiras do Oeste, RO	
2447			Construction of waterway terminal in Machadinho d'Oeste	1 un	Machadinho d'Oeste, RO	Machadinho d'Oeste, RO	

Table 67 - Minimum Investment - Rondônia

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	7 un	475.381.228,59
	Airport construction	1 un	10.652.648,76
Rail	Railway construction	1.173,0 km	10.696.206.034,49
Waterway	Channel opening	415,0 km	633.429.568,10
	Waterway adjustment	4.187,0 km	4.045.137.014,45
	Cargo riverboat	3 un	5.097.761.804,35
Road	Road adjustment	164,8 km	1.017.609.889,23
	Urban road adjustment	3,1 km	83.615,14
	Road construction	59,9 km	468.420.860,20
	Road duplication	722,3 km	8.348.760.060,31
	Implementation of express lane or BRT or RTM	15,6 km	303.977.048,39
	Paving of road	77,2 km	453.113.569,80
	Restoration of pavement on road	237,7 km	782.723.234,83
Terminal	Terminal adjustment	1 un	34.871.440,06
	Terminal construction	8 un	1.037.625.733,43
<b>Total</b>			<b>33.405.753.750,13</b>

## 7.1.2 ACRE



Note: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.



Table 68 - Project List - Acre

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	2888	Expansion and restoration of passenger terminal at Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		3367	Acquisition of fire engines for Rio Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		3368	Repair of runway at Cruzeiro do Sul Airport	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC
	Airport construction	2889	Construction of freight terminal at Plácido de Castro Airport in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		2896	Construction of freight terminal at Cruzeiro do Sul Airport	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC
Rail	Railway construction	1385	Construction of the Transcontinental Railway from Acrelândia to Rodrigues Alves	922,0 km	Acrelândia, AC	Rodrigues Alves, AC
Waterway	Waterway adjustment	1326-INT	Adjustment of the Acre River Waterway from Rio Branco to Boca do Acre	210,0 km	Rio Branco, AC	Boca do Acre, AM
		0682-INT	Adjustment of the Juruá River Waterway from Cruzeiro do Sul to Juruá	1.115,0 km	Cruzeiro do Sul, AC	Juruá, AM
Road	Road adjustment	2524	Implementation of additional lane on the BR-364 highway from Acrelândia to Senador Guimard	20,0 km	Acrelândia, AC	Senador Guimard, AC
	Road construction	3693	Construction of Brasília Bypass on BR-317	11,0 km	Epitaciolândia, AC	Brasília, AC
	Implementation of express lane or BRT or RTM	3886	Implementation of bus lanes in Rio Branco	13,3 km	Rio Branco, AC	Rio Branco, AC
	Restoration of pavement on road	2496	Restoration of pavement on AC-040 and AC-010 from Senador Guimard to Porto Acre	89,2 km	Senador Guimard, AC	Porto Acre, AC
		2598	Restoration of pavement on BR-364 from Rio Branco to Cruzeiro do Sul	636,7 km	Rio Branco, AC	Cruzeiro do Sul, AC
3686	Restoration of pavement on AC-407 / BR-307, BR-307, AC-405 / BR-307 and AC-405 from Cruzeiro do Sul to Mâncio Lima	64,8 km	Cruzeiro do Sul, AC	Mâncio Lima, AC		

Table 68 - Project List - Acre

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	3687	Restoration of pavement on AC-307 / BR-364 and AC-405/BR-364 from Rodrigues Alves to Mâncio Lima	35,9 km	Rodrigues Alves, AC	Mâncio Lima, AC
Terminal	Terminal adjustment	0326	Adjustment of mixed-use waterway terminal in Cruzeiro do Sul	1 un	Cruzeiro do Sul, AC	Cruzeiro do Sul, AC
		0327	Construction of logistics center in Rio Branco	1 un	Rio Branco, AC	Rio Branco, AC
		1818	Construction of waterway terminal in Feijó	1 un	Feijó, AC	Feijó, AC
	Terminal construction	2438	Construction of waterway terminal in Manoel Urbano	1 un	Manoel Urbano, AC	Manoel Urbano, AC
		2439	Construction of waterway terminal in Sena Madureira	1 un	Sena Madureira, AC	Sena Madureira, AC
		2440	Construction of waterway terminal in Tarauacá	1 un	Tarauacá, AC	Tarauacá, AC

Table 69 - Minimum Investment - Acre

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	3 un	17.938.500,50
	Airport construction	2 un	44.442.716,26
Rail	Railway construction	922,0 km	8.407.246.039,90
Waterway	Waterway adjustment	1.325,0 km	497.857.243,02
Road	Road adjustment	20,0 km	69.612.120,13
	Road construction	11,0 km	79.894.865,73
	Implementation of express lane or BRT or RTM	13,3 km	15.312.871,11
	Restoration of pavement on road	826,6 km	2.721.914.286,55
Terminal	Terminal adjustment	1 un	5.992.114,93
	Terminal construction	5 un	137.550.965,74
<b>Total</b>			<b>11.997.761.723,87</b>

### 7.1.3 AMAZONAS



Note: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Table 70 - Project list - Amazonas

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	2907	Restoration of runway systems at Eduardo Gomes Airport in Manaus	1 un	Manaus, AM	Manaus, AM
		2908	Modernization of equipment at Eduardo Gomes Airport in Manaus	1 un	Manaus, AM	Manaus, AM
		3357	Repair of runway at Tefé Airport	1 un	Tefé, AM	Tefé, AM
		3358	Expansion of passenger terminal and aircraft yard at Carauari Airport	1 un	Carauari, AM	Carauari, AM
		3359	Expansion of passenger terminal and parking lot at Itacoatiara Airport Itacoatiara	1 un	Itacoatiara, AM	Itacoatiara, AM
		3360	Restoration of runway at Barcelos Airport	1 un	Barcelos, AM	Barcelos, AM
		3361	Expansion of Estirão de Equador Airport in Atalaia do Norte	1 un	Atalaia do Norte, AM	Atalaia do Norte, AM
		3362	Expansion of São Gabriel da Cachoeira Airport (Iauaretê)	1 un	São Gabriel da Cachoeira, AM	São Gabriel da Cachoeira, AM
		3363	Construction of passenger terminal, restoration of runway system and implementation of equipment at Coari Airport	1 un	Coari, AM	Coari, AM
		3364	Construction of passenger terminal, restoration of runway system and implementation of equipment at Lábrea Airport	1 un	Lábrea, AM	Lábrea, AM
Rail	Construction of monorail or LRT or atmospheric railway	0826	Construction of the North-Center Line of monorail in Manaus	19,9 km	Manaus, AM	Manaus, AM
Waterway	Waterway adjustment	2903-INT	Adjustment of Juruena River Waterway from Juruena to Apuí	443,0 km	Juruena, MT	Apuí, AM
		1320-INT	Adjustment of waterways in Teles Pires and Tapajós rivers from Apiacás to Itaituba	680,0 km	Apiacás, MT	Itaituba, PA
		1326-INT	Adjustment of the Acre River Waterway from Rio Branco to Boca do Acre	210,0 km	Rio Branco, AC	Boca do Acre, AM

Table 70 - Project list - Amazonas

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	0682-INT	Adjustment of the Juruá River Waterway from Cruzeiro do Sul to Juruá	1.115,0 km	Cruzeiro do Sul, AC	Juruá, AM
		0628	Adjustment of Solimões River waterway from Tabatinga to Manaus	1.412,0 km	Tabatinga, AM	Manaus, AM
		0681	Dredging and beacon installation at Purus River waterway from Boca do Acre to Anori	2.550,0 km	Boca do Acre, AM	Anori, AM
		1329	Adjustment of Içá River waterway from Santo Antônio do Içá to Amaturá	368,0 km	Santo Antônio do Içá, AM	Amaturá, AM
		2880	Signaling and beacon installation at Amazon River waterway from Manaus to Itacoatiara	206,0 km	Manaus, AM	Itacoatiara, AM
		1332-INT	Adjustment of Rio Negro Waterway from São Gabriel da Cachoeira to Rorainópolis	820,0 km	São Gabriel da Cachoeira, AM	Rorainópolis, RR
		0217-INT	Signaling and beacon installation at Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		1323-INT	Dredging of Madeira River waterway from Porto Velho to Itacoatiara	1.086,0 km	Porto Velho, RO	Itacoatiara, AM
		2875-INT	Rock removal at Madeira River waterway from Porto Velho to Manicoré	603,0 km	Porto Velho, RO	Manicoré, AM
		1333-INT	Dragagem e balizamento das hidrovias dos rios Branco e Negro de Boa Vista a Manaus	922,0 km	Boa Vista, RR	Manaus, AM
	Cargo riverboat	1304-INT	Construction of Chacorão sluice on the Tapajós River waterway	1 un	Maués, AM	Jacareacanga, PA
Port	Port area	2021	Adjustment of warehouses 0, 3 and 4 for the passenger terminal of Port of Manaus	1 un	Manaus, AM	Manaus, AM
		2883	Revitalization of Manaus Moderna at Port of Manaus	1 un	Manaus, AM	Manaus, AM
		2884	Implementation of VTMS at Port of Manaus	1 un	Manaus, AM	Manaus, AM
	Port construction	2018	Construction of the Centro-Amazônico Port in Manaus	1 un	Manaus, AM	Manaus, AM

Table 70 - Project list - Amazonas

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Port	Port construction	2019	Construction of port terminal at Port of Manaus	1 un	Manaus, AM	Manaus, AM	
		2020	Construction of Ceasa bimodal port terminal at Port of Manaus	1 un	Manaus, AM	Manaus, AM	
Road	Road adjustment	3780	Implementation of additional lane on BR-174 road from Manaus to Presidente Figueiredo	106,0 km	Manaus, AM	Presidente Figueiredo, AM	
		3961	Construction of bridge on BR-319 over the Igapó-Açu River from Beruri to Manicoré	0,4 km	Beruri, AM	Manicoré, AM	
		3963	Construction of bridge on BR-230 over Madeira River in Humaitá	1,2 km	Humaitá, AM	Humaitá, AM	
	Road construction	2215	Construction of BR-317 road from Lábrea to Boca do Acre	416,0 km	Lábrea, AM	Boca do Acre, AM	
		2233	Construction of AM-254 road from Autazes to Maués	200,0 km	Autazes, AM	Maués, AM	
		2815	Implementation of South Ring Road in Manaus	8,3 km	Manaus, AM	Manaus, AM	
		3683	Construction of East Ring Road in Manaus	17,6 km	Manaus, AM	Manaus, AM	
		Road duplication	2526	Duplication of BR-319 road in Humaitá	62,7 km	Humaitá, AM	Humaitá, AM
			2600	Duplication of BR-230 road in Humaitá	23,1 km	Humaitá, AM	Humaitá, AM
	3893		Duplication of BR-319 road in Canutama	76,1 km	Canutama, AM	Canutama, AM	
	Implementation of express lane or BRT or RTM	0825	Implementation of East-South BRT in Manaus	19,0 km	Manaus, AM	Manaus, AM	
		1214	Implementation of bus lane on Flores and Torres avenues in Manaus	17,3 km	Manaus, AM	Manaus, AM	
	Paving of road	2214	Paving of BR-317 road in Boca do Acre	45,1 km	Boca do Acre, AM	Boca do Acre, AM	
		2232	Paving of AM-174 from Apuí to Novo Aripuanã	235,0 km	Apuí, AM	Novo Aripuanã, AM	
		2601	Paving of BR-319 from Borba to Humaitá	447,0 km	Borba, AM	Humaitá, AM	

Table 70 - Project list - Amazonas

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Paving of road	2722	Paving of BR-230 from Humaitá to Lábrea	172,8 km	Humaitá, AM	Lábrea, AM
		2723	Paving of BR-230 from Maués to Humaitá	601,4 km	Maués, AM	Humaitá, AM
	Restoration of pavement on road	2458	Restoration of pavement on AM-010 from Manaus to Itacoatiara	252,0 km	Manaus, AM	Itacoatiara, AM
		2599	Restoration of pavement on BR-174 and AMT-174/BR-174 from Borba to Manaus	226,0 km	Borba, AM	Manaus, AM
Terminal	Terminal adjustmen	3354	Adjustment of Tabatinga mixed-use waterway terminal	1 un	Tabatinga, AM	Tabatinga, AM
		3356	Expansion and adjustment of Nhamundá mixed-use waterway terminal	1 un	Nhamundá, AM	Nhamundá, AM
	Terminal construction	0337	Construction of mixed waterway terminal in Parintins	1 un	Parintins, AM	Parintins, AM
		0722	Construction of mixed waterway terminal in Boca do Acre	1 un	Boca do Acre, AM	Boca do Acre, AM
		2373	Construction of mixed waterway terminal in Apuí	1 un	Apuí, AM	Apuí, AM
		2374	Construction of mixed waterway terminal in Silves	1 un	Silves, AM	Silves, AM
		2376	Construction of mixed waterway terminal in Alvarães	1 un	Alvarães, AM	Alvarães, AM
		2377	Construction of mixed waterway terminal in Anamá	1 un	Anamá, AM	Anamá, AM
		2378	Construction of mixed waterway terminal in Anori	1 un	Anori, AM	Anori, AM
		2379	Construction of mixed waterway terminal in Envira	1 un	Envira, AM	Envira, AM
		2381	Construction of mixed waterway terminal in Tefé (Lago)	1 un	Tefé, AM	Tefé, AM
		2405	Construction of mixed waterway terminal in Borba	1 un	Borba, AM	Borba, AM

Table 70 - Project list - Amazonas

continuation

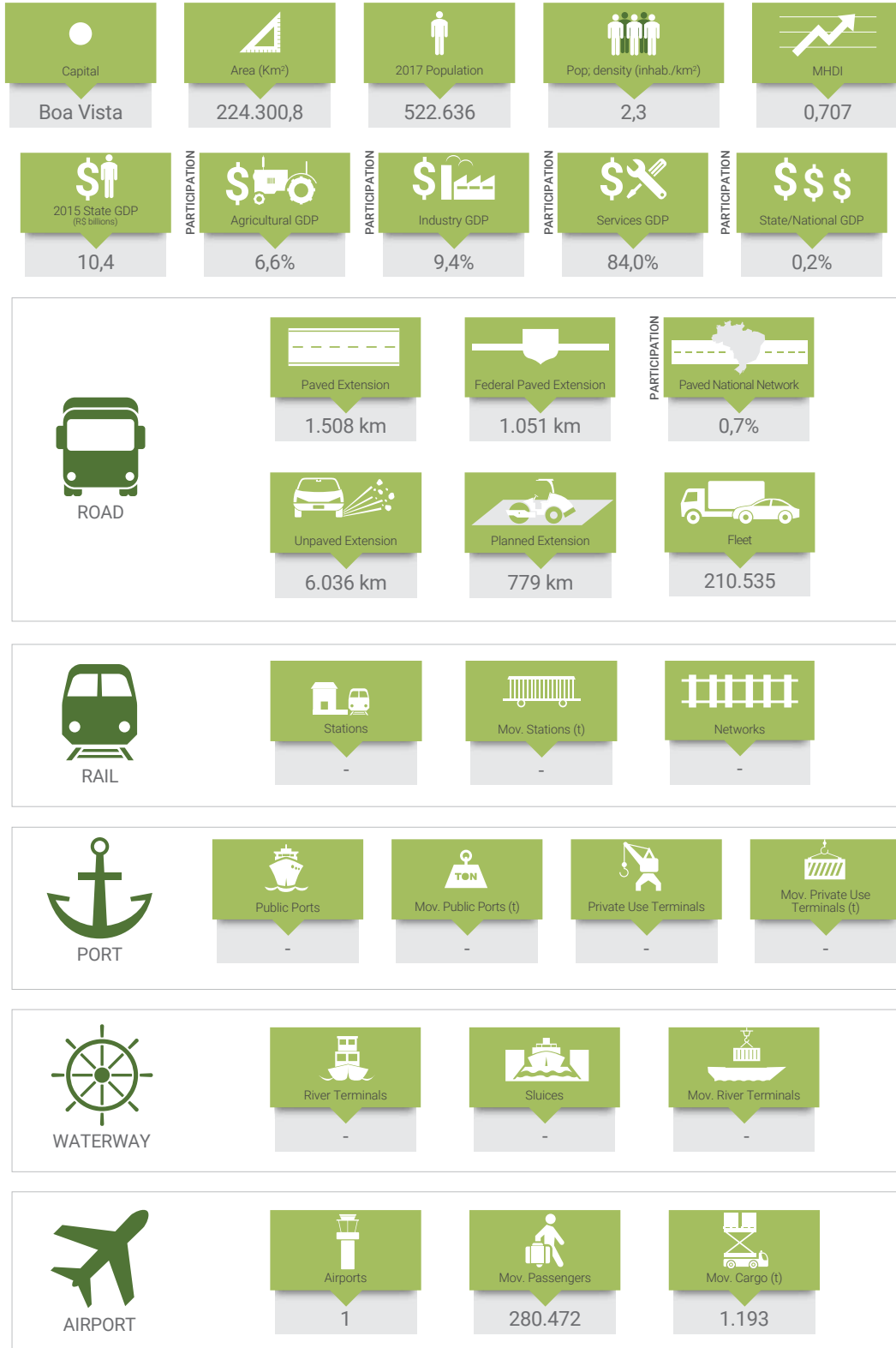
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	2407	Terminal construction waterway terminal in Itacoatiara	1 un	Itacoatiara, AM	Itacoatiara, AM
		2408	Terminal construction waterway terminal in Lábrea	1 un	Lábrea, AM	Lábrea, AM
		2423	Construction of mixed waterway terminal in São Gabriel da Cachoeira	1 un	São Gabriel da Cachoeira, AM	São Gabriel da Cachoeira, AM
		2429	Terminal construction waterway terminal in Maués	1 un	Maués, AM	Maués, AM
		2846	Construction of parking lot for cargo vehicles in the Metropolitan Region of Manaus	1 un	Manaus, AM	Manaus, AM

Table 71 - Minimum Investment - Amazonas

Infraestrutura	Categoria	Dimensão	Investimento Mínimo (R\$)
Airport	Airport adjustment	10 un	859.685.231,88
Rail	Construction of monorail or LRT or atmospheric railway	19,9 km	2.746.495.059,86
Waterway	Waterway adjustment	11.501,0 km	9.476.526.916,44
	Cargo riverboat	1 un	789.990.165,68
Port	Port area	3 un	468.248.584,13
	Port construction	3 un	1.686.504.351,90
Road	Road adjustment	107,6 km	619.611.580,41
	Road construction	641,9 km	1.808.960.314,54
	Road duplication	161,9 km	1.870.755.663,52
	Implementation of express lane or BRT or RTM	36,3 km	670.271.075,59
	Paving of road	1.501,3 km	7.905.083.272,57
	Restoration of pavement on road	478,0 km	1.574.008.019,57
Terminal	Terminal adjustment	2 un	16.502.789,61
	Terminal adjustment	15 un	340.786.750,65
<b>Total</b>			<b>30.833.429.776,35</b>



## 7.1.4 RORAIMA



Note: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Table 72 - Project list - Roraima

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1640	Restoration of Atlas Brasil Cantanhede Airport in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR
		3366	Acquisition of fire engines for Atlas Brasil Cantanhede Airport in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR
Waterway	Waterway adjustment	1332-INT	Adjustment of Rio Negro Waterway from São Gabriel da Cachoeira to Rorainópolis	820,0 km	São Gabriel da Cachoeira, AM	Rorainópolis, RR
		1333-INT	Dredging and beacon installation of Rio Branco and Rio Negro waterways from Boa Vista to Manaus	922,0 km	Boa Vista, RR	Manaus, AM
	Cargo riverboat	2878	Construction of Bem Querer sluice on Rio Branco waterway	1 un	Caracará, RR	Caracará, RR
Road	Road adjustment	2660	Implementation of signs on BR-210 from Caroebe to Caracará	94,6 km	Caroebe, RR	Caracará, RR
		2661	Implementation of signs on BR-401 from Boa Vista to Bonfim	106,6 km	Boa Vista, RR	Bonfim, RR
		2674	Implementation of signs on BR-174 from Rorainópolis to Caracará	244,9 km	Rorainópolis, RR	Caracará, RR
		3946	Implementation of signs on BR-174 from Caracará to Boa Vista	173,9 km	Caracará, RR	Boa Vista, RR
	Road construction	2225	Construction of BR-431 road in Rorainópolis	125,0 km	Rorainópolis, RR	Rorainópolis, RR
	Implementation of express lane or BRT or RTM	3896	Implementation of preferential lanes in Boa Vista	39,0 km	Boa Vista, RR	Boa Vista, RR
	Paving of road	0685	Paving of BR-401 from Bonfim to Normandia	71,4 km	Bonfim, RR	Normandia, RR
		2224	Paving of BR-210 road in Caroebe	27,4 km	Caroebe, RR	Caroebe, RR
		2226	Paving of BR-433 road in Pacaraima	56,0 km	Pacaraima, RR	Pacaraima, RR
		2227	Paving of BR-432 from Cacacará to Cantá	174,6 km	Caracará, RR	Cantá, RR
	Restoration of pavement on road	2675	Restoration of pavement on BR-174 road in Pacaraima	43,7 km	Pacaraima, RR	Pacaraima, RR
		3947	Restoration of pavement on BR-401 in Bonfim	18,2 km	Bonfim, RR	Bonfim, RR

Table 72 - Project list - Roraima

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	1827	Construction of waterway cargo terminal in Rorainópolis	1 un	Rorainópolis, RR	Rorainópolis, RR
		1828	Construction of waterway cargo terminal in Boa Vista	1 un	Boa Vista, RR	Boa Vista, RR

Table 73 - Minimum Investment - Roraima

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	4.176.772,37
Waterway	Waterway adjustment	1.742,0 km	3.160.679.515,04
	Cargo riverboat	1 un	874.801.673,75
Road	Road adjustment	620,0 km	16.723.030,30
	Road construction	125,0 km	722.585.958,71
	Implementation of express lane or BRT or RTM	39,0 km	18.197.806,23
	Paving of road	329,4 km	975.369.167,36
	Restoration of pavement on road	61,9 km	203.830.745,63
Terminal	Terminal construction	2 un	135.176.095,02
<b>Total</b>			<b>6.111.540.764,41</b>

## 7.1.5 PARÁ



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Table 74 - Project list - Pará

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1524	Construction of control tower at João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1525	Restoration and Expansion of passenger terminal at João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1526	Implementation of control tower at João Correa da Rocha Airport in Santarém	1 un	Santarém, PA	Santarém, PA
		1596	Expansion of Altamira Airport	1 un	Altamira, PA	Altamira, PA
		1597	Restoration of Julio Cezar Ribeiro (Val de Cans Airport in Belém	1 un	Belém, PA	Belém, PA
		1598	Expansion of Carajás Airport in Parauapebas	1 un	Parauapebas, PA	Parauapebas, PA
		1599	Implementation of air navigation groups at Conceição do Araguaia Airport	1 un	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		1600	Implementation of air navigation groups at Itaituba Airport	1 un	Itaituba, PA	Itaituba, PA
		1601	Implementation of air navigation groups at Airport of Jacareacanga	1 un	Jacareacanga, PA	Jacareacanga, PA
		1602	Restoration of João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		1603	Implementation of air navigation groups at Monte Dourado Airport in Almeirim	1 un	Almeirim, PA	Almeirim, PA
		1604	Implementation of air navigation groups at Tucuruí Airport	1 un	Tucuruí, PA	Tucuruí, PA
		2954	Restoration of runway system at Julio Cezar Ribeiro (Val de Cans) Airport in Belém	1 un	Belém, PA	Belém, PA
		2959	Runway repair João Correa da Rocha Airport in Marabá	1 un	Marabá, PA	Marabá, PA
		2960	Runway repair at Júlio Cezar Ribeiro (Val de Cans) Airport in Belém	1 un	Belém, PA	Belém, PA

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	3365	Runway repair at Maestro Wilson Fonseca Airport in Santarém	1 un	Santarém, PA	Santarém, PA
Rail	Railway construction	1387	Construction of the North-South Railway from Dom Eliseu to Barcarena	407,8 km	Dom Eliseu, PA	Barcarena, PA
		1388	Construction of North-South Railway from Paragominas to Curuçá	263,2 km	Paragominas, PA	Curuçá, PA
		1459	Construction of the Cuiabá - Santarém Railway from Novo Progresso to Santarém	977,8 km	Novo Progresso, PA	Santarém, PA
		1462	Construction of Palmeirante - Ribeirão Cascalheira rail link from Conceição do Araguaia to Santana do Araguaia	249,1 km	Conceição do Araguaia, PA	Santana do Araguaia, PA
		2950	Construction of Paraense Railway from Santana do Araguaia to Barcarena	1.319,0 km	Santana do Araguaia, PA	Barcarena, PA
Waterway	Channel opening	2866-INT	Rock removal at Tocantins River waterway from Estreito to Marabá	321,0 km	Estreito, MA	Marabá, PA
		1315	Rock removal at Lourenço Pedral on Tocantins River Waterway	43,0 km	Nova Ipixuna, PA	Itupiranga, PA
	Waterway adjustment	1320-INT	Adjustment of Teles Pires and Tapajós rivers waterways from Apicás to Itaituba	680,0 km	Apicás, MT	Itaituba, PA
		1342-INT	Adjustment of Araguaia River waterway from Barra do Garças to São João do Araguaia	1.655,0 km	Barra do Garças, MT	São João do Araguaia, PA
		2902-INT	Adjustment of Teles Pires waterway from Itaúba to Apicás	583,0 km	Itaúba, MT	Apicás, MT
		1317	Adjustment of the Capim River waterway from Paragominas to São Domingos do Capim	355,0 km	Paragominas, PA	São Domingos do Capim, PA
		1318	Adjustment of Guamá River waterway from São Miguel do Guamá to Barcarena	157,0 km	São Miguel do Guamá, PA	Barcarena, PA
		1337	Dredging of Tocantins River waterway from Itupiranga to Barcarena	433,0 km	Itupiranga, PA	Barcarena, PA

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	1343	Adjustment of Tapajós River waterway from Itaituba to Santarém	290,0 km	Itaituba, PA	Santarém, PA
		1350	Dredging of Quiriri Channel in Marajó Bay	143,0 km	Belém, PA	Soure, PA
		2861	Adjustment of Tocantins River waterway from Marabá to Itupiranga	50,0 km	Marabá, PA	Itupiranga, PA
		2862	Signaling and beacon installation Tocantins River waterway from Itupiranga to Barcarena	433,0 km	Itupiranga, PA	Barcarena, PA
		2882	Adjustment of Marajó waterway from Breves to Almeirim	177,0 km	Breves, PA	Almeirim, PA
		0191-INT	Adjustment of Marajó Waterway between Tocantins and Amazon rivers	380,0 km	Limoeiro do Ajuru, PA	Mazagão, AP
		1336-INT	Dredging, signaling and beacon installation at Tocantins River waterway from Peixe to Marabá	1.021,0 km	Peixe, TO	Marabá, PA
	Cargo riverboat	1263-INT	Construction of Cachoeira Rasteira sluice on Teles Pires River waterway	1 un	Apiacás, MT	Jacareacanga, PA
		1265-INT	Construction of São Manoel sluice on Teles Pires River waterway	1 un	Paranaíta, MT	Jacareacanga, PA
		1267-INT	Construction of Teles Pires sluice on Teles Pires River waterway	1 un	Paranaíta, MT	Jacareacanga, PA
		1304-INT	Construction of Chacorão sluice on Tapajós River waterway	1 un	Maués, AM	Jacareacanga, PA
		1305	Construction of Jatoba sluice on Tapajós River waterway	1 un	Itaituba, PA	Itaituba, PA
		1306	Construction of São Luiz do Tapajós sluice on Tapajós River waterway	1 un	Itaituba, PA	Itaituba, PA
		2870	Construction of Marabá sluice on Tocantins River waterway	1 un	Marabá, PA	São João do Araguaia, PA
3068	Construction of a sluice downstream of São Luiz do Tapajós HPP on the Tapajós River waterway	1 un	Itaituba, PA	Trairão, PA		

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Cargo riverboat	1345-INT	Construction of Santa Isabel sluice on Araguaia River waterway	1 un	Ananás, TO	Palestina do Pará, PA
		3055-INT	Construction of Araguanã sluice on Araguaia River waterway	1 un	Araguanã, TO	Piçarra, PA
Port	Waterway access to port	1943	Dredging of Port of Belém access channel	4.500.000,0 m³	Belém, PA	Belém, PA
	Land access to port	2094	Adjustment of road access to Port of Santarém via BR-163	9,0 km	Santarém, PA	Santarém, PA
		2890	Adjustment of the internal routes of Port of Belém	5,0 km	Belém, PA	Belém, PA
	Port area	1932	Berth construction at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1938	Construction of rollon/roll-off ramp at Port of Belém	1 un	Belém, PA	Belém, PA
		1939	Adjustment of berth at Port of Belém	1 un	Belém, PA	Belém, PA
		1940	Expansion of container terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		1944	Adjustment of Outeiro Terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		2089	Expansion of the Multiple Use Terminal 1 and adjustment of its pier at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2887	Implementation of VTMS at Port of Belém	1 un	Belém, PA	Belém, PA
		2905	VTMS implementation at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		2906	Expansion of GLP terminal at Miramar Terminal at Port of Belém	1 un	Belém, PA	Belém, PA
		2955	Adjustment of liquid bulk cargo terminals at Miramar Terminal at Port of Belém	5 un	Belém, PA	Belém, PA
		2980	Implementation of VTMS at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		Port construction	0320	Construction of Port of Espadarte in Curuçá	1 un	Curuçá, PA



Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Port	Port construction	1933	Construction of liquid bulk cargo terminal at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1935	Construction of Multiple Use Terminal 2 at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1936	Construction of steel plate and coil terminal at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		1937	Construction of coal terminal at Port of Vila do Conde in Barcarena	1 un	Barcarena, PA	Barcarena, PA
		2090	Construction of the Multiple Use Terminal 2 at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2091	Construction of Biomass Dry Bulk Cargo Terminal II at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2092	Construction of fertilizer terminal at Port of Santarém	1 un	Santarém, PA	Santarém, PA
		2913	Construction of Brasil Norte Superport in Abaetetuba	1 un	Abaetetuba, PA	Abaetetuba, PA
		2978	Construction of Biomass Dry Bulk Cargo Terminal III at Port of Santarém	1 un	Santarém, PA	Santarém, PA
Road	Road adjustment	2473	Implementation of signs on PA-287 from Conceição do Araguaia to Redenção	96,8 km	Conceição do Araguaia, PA	Redenção, PA
		2475	Implementation of signs on PA-483 in Barcarena	18,5 km	Barcarena, PA	Barcarena, PA
		2505	Implementation of signs on PA-150 from Tailândia to Marabá	332,9 km	Tailândia, PA	Marabá, PA
		2510	Implementation of signs on PA-252 in Moju	23,7 km	Moju, PA	Moju, PA
		2511	Implementation of signs on PA-475 from Moju to Tailândia	41,6 km	Moju, PA	Tailândia, PA
		2643	Implementation of signs on BR-010 from Dom Eliseu to Santa Maria do Pará	356,2 km	Dom Eliseu, PA	Santa Maria do Pará, PA

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3917	Implementation of signs on BR-010 from Castanhal to Marituba	55,0 km	Castanhal, PA	Marituba, PA
		3956-INT	Construction of bridge on BR-153 over Araguaia River from São Geraldo do Araguaia to Xambioá	1,7 km	São Geraldo do Araguaia, PA	Xambioá, TO
	Road construction	2219	Construction of BR-235 road in Santa Maria das Barreiras	101,8 km	Santa Maria das Barreiras, PA	Santa Maria das Barreiras, PA
		2235	Construction of PA-151 from Mocajuba to Breu Branco	221,7 km	Mocajuba, PA	Breu Branco, PA
		2237	Construction of PA-254 from Faro to Almeirim	433,8 km	Faro, PA	Almeirim, PA
		2239	Construction of PA-370 from Santarém to Medicilândia	191,0 km	Santarém, PA	Medicilândia, PA
		3844	Construction of BR-230 road in Itaituba	8,3 km	Itaituba, PA	Itaituba, PA
	Road duplication	2646	Duplication of BR-158 from Redenção to Santana do Araguaia	289,8 km	Redenção, PA	Santana do Araguaia, PA
		3918	Duplication of BR-316 from Castanhal to Capanema	84,7 km	Castanhal, PA	Capanema, PA
	Implementation of express lane or BRT or RTM	1228	Implementation of Centenário Corridor BRT in Belém	18,9 km	Belém, PA	Belém, PA
		1229	Implementation of BRTs in Belém	33,5 km	Belém, PA	Belém, PA
		3678	Implementation of Metropolitan BRT from Belém to Marituba	10,7 km	Belém, PA	Marituba, PA
	Paving of road	0617	Paving of BR-163 from Novo Progresso to Rurópolis	789,0 km	Novo Progresso, PA	Rurópolis, PA
		0634	Paving of BR-230 from Palestina do Pará to Rurópolis	957,8 km	Palestina do Pará, PA	Rurópolis, PA
		0687	Paving of BR-230 from Itaituba to Jacareacanga	437,2 km	Itaituba, PA	Jacareacanga, PA
2220		Paving of BR-422 from Novo Repartimento to Tucuru	63,7 km	Novo Repartimento, PA	Tucuruí, PA	
2236		Paving of PA-167 in Senador José Porfírio	84,4 km	Senador José Porfírio, PA	Senador José Porfírio, PA	

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Paving of road	2238	Paving of PA-256 from Paragominas to Moju	315,3 km	Paragominas, PA	Moju, PA
		2240	Paving of PA-407 in Igarapé-Miri	16,4 km	Igarapé-Miri, PA	Igarapé-Miri, PA
		2241	Paving of PA-419 in Prainha	35,0 km	Prainha, PA	Prainha, PA
		2242	Paving of PA-423 in Monte Alegre	47,5 km	Monte Alegre, PA	Monte Alegre, PA
		2243	Paving of PA-433 from Belterra to Santarém	35,0 km	Belterra, PA	Santarém, PA
		2244	Paving of PA-437 in Óbidos	16,0 km	Óbidos, PA	Óbidos, PA
		2245	Paving of PA-439 in Oriximiná	28,0 km	Oriximiná, PA	Oriximiná, PA
		2247	Paving of PA-467 from Igarapé-Miri to Cametá	18,8 km	Igarapé-Miri, PA	Cametá, PA
		2248	Paving of PA-471 from Cametá to Mocajuba	8,9 km	Cametá, PA	Mocajuba, PA
		2249	Paving of PA-477 from São Geraldo do Araguaia to Xinguara	111,4 km	São Geraldo do Araguaia, PA	Xinguara, PA
		2250	Paving of PA-423 in Almeirim	122,0 km	Almeirim, PA	Almeirim, PA
		2251	Paving of PA-441 from Terra Santa to Faro	21,0 km	Terra Santa, PA	Faro, PA
		2647	Paving of BR-163 from Rurópolis to Belterra	84,0 km	Rurópolis, PA	Belterra, PA
	3945	Paving of BR-308 from Bragança to Viseu	119,4 km	Bragança, PA	Viseu, PA	
	Restoration of pavement on road	2472	Restoration of pavement on PA-150 in Redenção	16,4 km	Redenção, PA	Redenção, PA
		2474	Restoration of pavement on PA-447 in Conceição do Araguaia	13,4 km	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		2644	Restoration of pavement on BR-153 road from São João do Araguaia to São Geraldo do Araguaia	111,2 km	São João do Araguaia, PA	São Geraldo do Araguaia, PA
		2645	Restoration of pavement on BR-155 road from Redenção to Marabá	346,3 km	Redenção, PA	Marabá, PA
		2648	Restoration of pavement on BR-222 road from Dom Eliseu to Marabá	226,3 km	Dom Eliseu, PA	Marabá, PA

Table 74 - Project list - Pará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	3843	Recuperação do pavimento da rodovia BR-230 em Itaituba	32,3 km	Itaituba, PA	Itaituba, PA
		3915	Recuperação do pavimento da rodovia BR-010 de Marituba a Belém	11,6 km	Marituba, PA	Belém, PA
		3944	Recuperação do pavimento da rodovia BR-308 de Capanema a Bragança	60,0 km	Capanema, PA	Bragança, PA
		3948	Recuperação do pavimento da rodovia PA-415 de Altamira a Vitória do Xingu	42,9 km	Altamira, PA	Vitória do Xingu, PA
Terminal	Terminal construction	0417	Construction of waterway cargo terminal in Breu Branco	2 un	Breu Branco, PA	Breu Branco, PA
		0421	Construction of logistics platform in Marabá	1 un	Marabá, PA	Marabá, PA
		0697	Construction of mixed waterway terminal in Juruti	1 un	Juruti, PA	Juruti, PA
		0721	Construction of mixed waterway terminal in Belém	1 un	Belém, PA	Belém, PA
		1769	Construction of biomass dry bulk cargo terminals at Port of Miritituba in Itaituba	4 un	Itaituba, PA	Itaituba, PA
		1782	Construction of intermodal cargo terminal in Santarém	1 un	Santarém, PA	Santarém, PA
		1831	Construction of waterway cargo terminal in Jacareacanga	1 un	Jacareacanga, PA	Jacareacanga, PA
		1878	Construction of mixed waterway terminal in Aveiro	1 un	Aveiro, PA	Aveiro, PA
		2393	Construction of mixed waterway terminal in Altamira	1 un	Altamira, PA	Altamira, PA
		2394	Construction of mixed waterway terminal in Oriximiná	1 un	Oriximiná, PA	Oriximiná, PA
		2395	Construction of mixed waterway terminal in Óbidos	1 un	Óbidos, PA	Óbidos, PA
		2396	Construction of mixed waterway terminal in Abaetetuba	1 un	Abaetetuba, PA	Abaetetuba, PA

Table 74 - Project list - Pará

continuation

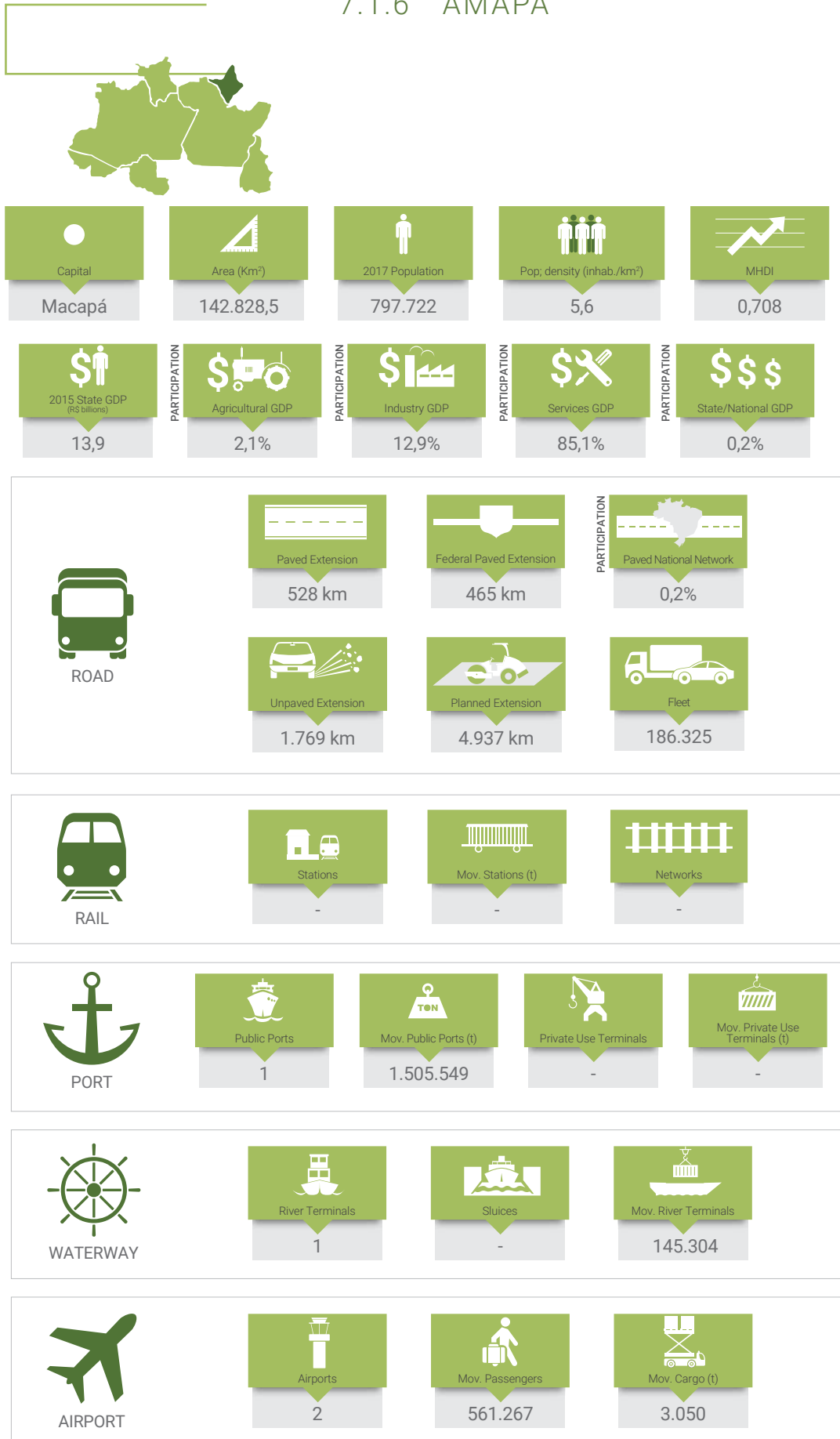
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	2397	Construction of mixed waterway terminal in Cametá	1 un	Cametá, PA	Cametá, PA
		2398	Construction of mixed waterway terminal in Conceição do Araguaia	1 un	Conceição do Araguaia, PA	Conceição do Araguaia, PA
		2399	Construction of mixed waterway terminal in São Miguel do Guamá	1 un	São Miguel do Guamá, PA	São Miguel do Guamá, PA
		2400	Construction of mixed waterway terminal in Tucuruí	1 un	Tucuruí, PA	Tucuruí, PA
		2401	Construction of mixed waterway terminal in Viseu	1 un	Viseu, PA	Viseu, PA
		2402	Construction of mixed waterway terminal in Bragança	1 un	Bragança, PA	Bragança, PA
		2437	Construction of mixed waterway terminal in Santarém	1 un	Santarém, PA	Santarém, PA
		2844	Construction of parking lot for cargo vehicles in Belém Metropolitan Region	1 un	Belém, PA	Belém, PA
		3332	Construction of mixed waterway terminal in Augusto Corrêa	1 un	Augusto Corrêa, PA	Augusto Corrêa, PA
		3334	Construction of passenger waterway terminal in Almeirim	1 un	Almeirim, PA	Almeirim, PA
		3335	Construction of a mixed waterway terminal in Prainha	1 un	Prainha, PA	Prainha, PA
		3336	Construction of mixed waterway terminal in Faro	1 un	Faro, PA	Faro, PA
		3337	Construction of mixed waterway terminal in Terra Santa	1 un	Terra Santa, PA	Terra Santa, PA
		3338	Construction of mixed waterway terminal in Curuá	1 un	Curuá, PA	Curuá, PA
		3339	Construction of waterway passenger terminal in Santana do Tapará in Santarém	1 un	Santarém, PA	Santarém, PA
		Terminal construction - Urban	3331	Construction and adjustment of passenger terminals for integration in Belém	10 un	Belém, PA

Table 75 - Minimum Investment - Pará

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	16 un	279.748.859,71
Rail	Railway construction	3.216,9 km	40.602.597.414,23
Waterway	Channel opening	364,0 km	4.416.365.089,03
	Waterway adjustment	6.357,0 km	26.888.367.275,11
	Cargo riverboat	10 un	10.521.604.960,20
Port	Waterway access to port	4.500.000,0 m³	84.891.217,53
	Land access to port	14,0 km	70.857.947,85
	Port area	15 un	2.402.326.931,64
	Port construction	10 un	13.204.977.918,05
Road	Road adjustment	926,4 km	200.910.032,31
	Road construction	956,6 km	5.557.144.545,44
	Road duplication	374,5 km	4.328.687.031,13
	Implementation of express lane or BRT or RTM	63,1 km	803.482.126,72
	Paving of road	3.310,8 km	9.586.739.373,57
	Restoration of pavement on road	860,4 km	2.065.724.553,74
Terminal	Terminal construction	31 un	1.012.223.094,35
	Terminal construction - Urban	10 un	73.960.951,03
<b>Total</b>			<b>122.100.609.321,64</b>



## 7.1.6 AMAPÁ



Note: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Table 76 - Project list - Amapá

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1545	Implementation of air navigation groups at Amapá Airport	1 un	Amapá, AP	Amapá, AP
		2904	Implementation of security systems at Oiapoque Airport	1 un	Oiapoque, AP	Oiapoque, AP
	Airport construction	1506	Construction of new passenger terminal at Alberto Alcolumbre Airport in Macapá	1 un	Macapá, AP	Macapá, AP
		1546	Construction of cargo terminal of Alberto Alcolumbre Airport in Macapá	1 un	Macapá, AP	Macapá, AP
Waterway	Waterway adjustment	0191-INT	Adjustment of Marajó Waterway between Tocantins and Amazon rivers	380,0 km	Limoeiro do Ajuru, PA	Mazagão, AP
Port	Land access to port	2087	Construction and restoration of rail access to Port of Santana	3,3 km	Santana, AP	Santana, AP
		2886	Paving and restoration of internal at Port of Santana	1,0 km	Santana, AP	Santana, AP
	Port area	2084	Implementation of port equipment at Port of Santana	1 un	Santana, AP	Santana, AP
		2085	Construction of pier at Port of Santana	7 un	Santana, AP	Santana, AP
	Port construction	2086	Construction of bulk cargo terminal at Port of Santana	1 un	Santana, AP	Santana, AP
Road	Road adjustment	2497	Implementation of signs on AP-010 from Macapá to Santana	22,1 km	Macapá, AP	Santana, AP
		3816	Implementation of signs on AP-440 from Santana to Macapá	15,0 km	Santana, AP	Macapá, AP
		3825	Implementation of signs on BR-156 from Porto Grande to Calçoene	307,6 km	Porto Grande, AP	Calçoene, AP
	Road construction	3827	Construction of bridge access ramps on BR-156 over Oiapoque River in Oiapoque	1,9 km	Oiapoque, AP	Oiapoque, AP
	Paving of road	0694	Paving of BR-156 from Calçoene to Oiapoque	110,2 km	Calçoene, AP	Oiapoque, AP
2217		Paving of BR-156 from Laranjal do Jari to Macapá	244,2 km	Laranjal do Jari, AP	Macapá, AP	



Table 76 - Project list - Amapá

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement	2602	Restoration of pavement on BR-210 in Macapá	21,1 km	Macapá, AP	Macapá, AP
		3826	Restoration of pavement on BR-156 from Macapá to Porto Grande	79,7 km	Macapá, AP	Porto Grande, AP
Terminal	Terminal adjustment	0723	Adjustment of waterway terminal in Macapá	1 un	Macapá, AP	Macapá, AP
	Terminal construction - Urban	3900	Construction and adjustment of urban passenger bus terminals in Macapá	11 un	Macapá, AP	Macapá, AP

Table 77 - Minimum Investment - Amapá

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	2.949.335,56
	Airport construction	2 un	294.452.339,29
Waterway	Waterway adjustment	380,0 km	86.040.991,84
Port	Land access to port	4,3 km	97.896.410,94
	Port area	8 un	301.641.521,77
	Port construction	1 un	269.885.047,81
Road	Road adjustment	344,7 km	9.297.465,39
	Road construction	1,9 km	599.211,49
	Paving of road	354,4 km	989.018.293,85
	Restoration of pavement	100,8 km	331.924.703,71
Terminal	Terminal adjustment	1 un	46.488.047,69
	Terminal construction - Urban	11 un	168.486.624,16
<b>Total</b>			<b>2.598.679.993,50</b>

## 7.1.7 TOCANTINS



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FNSTC - North-South Railway - Central Line; FNSTN - North-South Railway - North Line.

Table 78 - Project list - Tocantins

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	1623	Restoration of Brigadeiro Lysias Rodrigues Airport in Palmas	1 un	Palmas, TO	Palmas, TO
		3003	Restoration of passenger terminal at Araguaína Airport	1 un	Araguaína, TO	Araguaína, TO
Waterway	Implementation lane transportation waterway	3328	Implementation of river of waterway transportation urban passenger from Palmas to Porto Nacional	15,0 km	Palmas, TO	Porto Nacional, TO
Rail	Railway construction	1379	Construction of West-East Integration Railway from Taguatinga to Figueirópolis	395,6 km	Taguatinga, TO	Figueirópolis, TO
		1461	Construction of the Palmeirante - Ribeirão Cascalheira rail link from Palmeirante to Couto Magalhães	131,5 km	Palmeirante, TO	Couto Magalhães, TO
Waterway	Channel opening	2866-INT	Rock removal at Tocantins River waterway from Estreito to Marabá	321,0 km	Estreito, MA	Marabá, PA
		2864	Rock removal at Tocantins River waterway from Peixe to Palmas	225,0 km	Peixe, TO	Palmas, TO
	Waterway adjustment	1342-INT	Adjustment of Araguaia River waterway from Barra do Garças to São João do Araguaia	1.655,0 km	Barra do Garças, MT	São João do Araguaia, PA
		1336-INT	Dredging, signaling and beacon installation at Tocantins River waterway from Peixe to Marabá	1.021,0 km	Peixe, TO	Marabá, PA
	Cargo riverboat	0212-INT	Construction of Serra Quebrada sluice on Tocantins River waterway	1 un	Governador Edison Lobão, MA	Itaguatins, TO
		1258-INT	Construction of Estreito sluice on the Tocantins River waterway	1 un	Estreito, MA	Palmeiras do Tocantins, TO
		0210	Construction of Luis Eduardo Magalhães (Lajeado) sluice on Tocantins River waterway	1 un	Lajeado, TO	Miracema do Tocantins, TO
		1290	Construction of Peixe Anglical sluice on Tocantins River waterway	1 un	Peixe, TO	São Salvador do Tocantins, TO
		1291	Construction of São Salvador sluice on Tocantins River waterway	1 un	Paraná, TO	São Salvador do Tocantins, TO
	1307	Construction of Ipueiras sluice on Tocantins River waterway	1 un	Ipueiras, TO	Brejinho de Nazaré, TO	

Table 78 - Project list - Tocantins

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Waterway	Cargo riverboat	1308	Construction of Tupiratins sluice on Tocantins River waterway	1 un	Itapiratins, TO	Tupiratins, TO	
		1345-INT	Construction of Santa Isabel sluice on Araguaia River waterway	1 un	Ananás, TO	Palestina do Pará, PA	
		3055-INT	Construction of Araguaã sluice on Araguaia River waterway	1 un	Araguanã, TO	Piçarra, PA	
Road	Road adjustment	3956-INT	Construction of bridge on BR-153 over Araguaia River from São Geraldo do Araguaia to Xambioá	1,7 km	São Geraldo do Araguaia, PA	Xambioá, TO	
		0690	Implementation of signs on TO-080 from Palmas to Paraíso do Tocantins	69,3 km	Palmas, TO	Paraíso do Tocantins, TO	
		2487	Implementation of signs on TO-010, TO-445 and TO-342 from Palmas to Miranorte	104,4 km	Palmas, TO	Miranorte, TO	
		2489	Implementation of signs on TO-280 from Almas to Natividade	77,4 km	Almas, TO	Natividade, TO	
		2574	Implementation of signs on BR-230 from Aguiarnópolis to Araguatins	145,3 km	Aguiarnópolis, TO	Araguatins, TO	
		2634	Implementation of signs on BR-242 from Cariri do Tocantins to Formoso do Araguaia	81,6 km	Cariri do Tocantins, TO	Formoso do Araguaia, TO	
	Road construction	Road construction	3952	Implementation of signs on TO-373 from Alvorada to Araguaçu	109,4 km	Alvorada, TO	Araguaçu, TO
			3953	Implementation of signs on TO-080 from Paraíso do Tocantins to Caseara	191,5 km	Paraíso do Tocantins, TO	Caseara, TO
			3955	Implementation of signs on BR-153 from Xambioá to Wanderlândia	90,4 km	Xambioá, TO	Wanderlândia, TO
			0193	Construction of BR-242 road in Formoso do Araguaia	89,5 km	Formoso do Araguaia, TO	Formoso do Araguaia, TO
			0929	Construction of BR-235 from Lizarda to Bom Jesus do Tocantins	158,8 km	Lizarda, TO	Bom Jesus do Tocantins, TO
			0957	Construção da rodovia BR-242 de Taguatinga a Paranã	147,8 km	Taguatinga, TO	Paraná, TO

Table 78 - Project list - Tocantins

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Road	Road construction	2228	Construction of BR-235 and TO-438/BR-235 from Guaraí to Araguacema	111,4 km	Guaraí, TO	Araguacema, TO	
		3954	Construction of BR-010 from Rio Sono to Santa Maria do Tocantins	111,2 km	Rio Sono, TO	Santa Maria do Tocantins, TO	
	Road duplication	2254	Duplication of BR-226 and BR-153 from Aguiarnópolis to Talismã	746,8 km	Aguiarnópolis, TO	Talismã, TO	
		2632	Duplication of BR-010, TO-280/BR-010, TO-050/BR-010 and TO-020/BR-010 from Paranã to Rio Sono	406,5 km	Paraná, TO	Rio Sono, TO	
		2633	Duplication of BR-242 from Peixe to Gurupi	104,3 km	Peixe, TO	Gurupi, TO	
		2679	Duplication of TO-010/BR-235 and BR-235 from Bom Jesus do Tocantins to Guaraí	44,1 km	Bom Jesus do Tocantins, TO	Guaraí, TO	
		Implementation of express lane or BRT or RTM	3741	Implementation of BRT Palmas Sul in Palmas	15,5 km	Palmas, TO	Palmas, TO
			3742	Implementation of BRT Palmas Norte in Palmas	14,9 km	Palmas, TO	Palmas, TO
	Restoration of pavement on road	2488	Restoration of pavement on TO-222 from Filadélfia to Araguaína	110,7 km	Filadélfia, TO	Araguaína, TO	
		2520	Restoration of pavement on TO-040 from Almas to Ponte Alta do Bom Jesus	112,1 km	Almas, TO	Ponte Alta do Bom Jesus, TO	
		2522	Restoration of pavement on TO-335 and TO-336 from Palmeirante to Couto Magalhães	193,0 km	Palmeirante, TO	Couto Magalhães, TO	
		3949	Restoration of pavement on BR-242 and TO-110/BR-242 in Taguatinga	14,6 km	Taguatinga, TO	Taguatinga, TO	
	Terminal	Terminal construction	0550	Construction of waterway cargo terminal in Aguiarnópolis	1 un	Aguiarnópolis, TO	Aguiarnópolis, TO
			0552	Construction of waterway terminal in Couto Magalhães	1 un	Couto Magalhães, TO	Couto Magalhães, TO
0553			Construction of waterway cargo terminal in Miracema do Tocantins	1 un	Miracema do Tocantins, TO	Miracema do Tocantins, TO	
0554			Construction of logistics platform in Palmas	1 un	Palmas, TO	Palmas, TO	

Table 78 - Project list - Tocantins

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	0555	Construction of waterway cargo terminal in Pedro Afonso	1 un	Pedro Afonso, TO	Pedro Afonso, TO
		0556	Construction of waterway cargo terminal in Peixe	1 un	Peixe, TO	Peixe, TO
		1774	Construction of rail freight terminal in Alvorada	1 un	Alvorada, TO	Alvorada, TO
		1844	Construction of waterway cargo terminal in Barra do Ouro	1 un	Barra do Ouro, TO	Barra do Ouro, TO
		1863	Construction of waterway cargo terminal in Porto Nacional	1 un	Porto Nacional, TO	Porto Nacional, TO

Table 79 - Minimum Investment - Tocantins

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	67.303.562,76
Waterway	Implementation of waterway transportation corridor	15,0 km	18.528.205,39
Rail	Railway construction	527,1 km	5.709.913.379,65
Waterway	Channel opening	546,0 km	4.417.754.610,00
	Waterway adjustment	2.676,0 km	22.318.178.793,14
	Cargo riverboat	9 un	8.621.607.972,40
Road	Road adjustment	871,0 km	199.415.748,63
	Road construction	618,7 km	2.845.022.081,22
	Road duplication	1.301,7 km	15.045.799.488,45
	Implementation of express lane or BRT or RTM	30,4 km	723.602.355,75
	Restoration of pavement on road	430,4 km	1.417.265.798,37
Terminal	Terminal construction	9 un	419.732.282,36
<b>Total</b>			<b>61.804.124.278,12</b>



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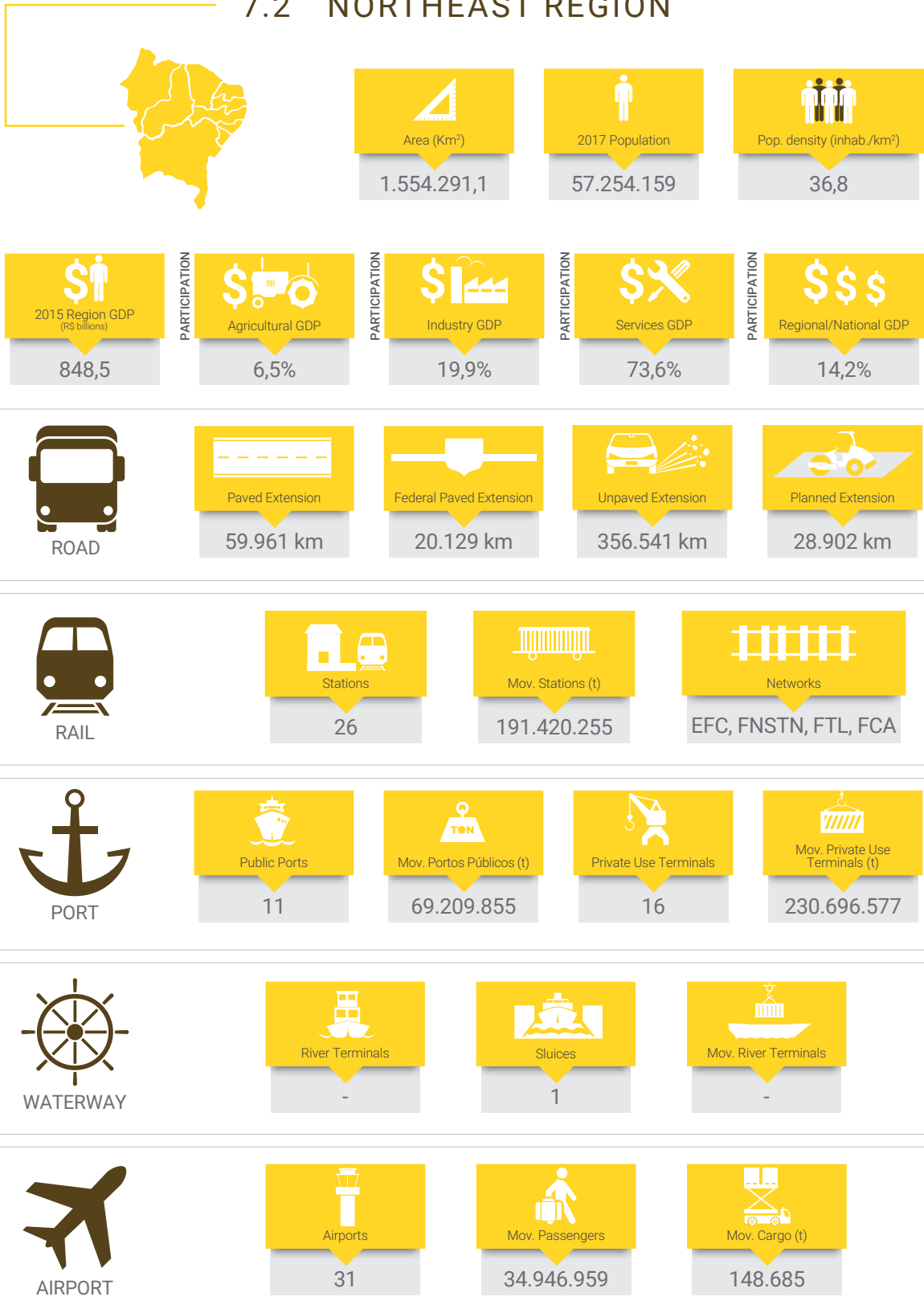
# NORTHEAST REGION

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the QR CODE above

## 7.2 NORTHEAST REGION



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFC - Carajás Railway; FCA - Centro-Atlântica Railway; FNSTN - North-South Railway - North Line; FTL - Transnordestina Logística Railway.



Table 80 - Number of interventions and minimum investment required, by Corridor, for the Northeast Region

Corridor	Airport	Waterway	Rail	Waterway	Port	Road	Terminal	Total	Minimum Investment (R\$)
E1	8	-	20	1	-	66	5	100	37.373.408.031,92
E2	26	-	50	1	-	159	13	249	70.605.767.100,68
E3	4	-	3	4	-	11	6	28	19.640.612.176,51
E4	-	-	-	-	-	-	-	-	-
E5	-	-	-	-	-	-	-	-	-
E6	-	-	-	-	-	-	-	-	-
E7	5	-	2	-	-	26	3	36	26.014.813.156,11
E8	14	-	7	18	-	48	14	101	31.469.809.110,01
E9	-	-	-	-	90	-	-	90	31.055.503.889,27
U	-	2	16	-	-	52	1	71	41.731.433.881,46
<b>Total</b>	<b>57</b>	<b>2</b>	<b>98</b>	<b>24</b>	<b>90</b>	<b>362</b>	<b>42</b>	<b>675</b>	<b>257.891.347.345,96</b>

Table 81 - Minimum Investment - Northeast Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	29 un	1.622.991.018,67
	Airport construction	28 un	1.432.527.193,50
Waterway	Implementation of waterway transportation corridor	19,9 km	540.875.978,84
Rail	Railway construction	4.224,2 km	27.182.318.004,99
	Construction of metro or urban train	29,9 km	15.641.967.259,30
	Construction of monorail or LRT or atmospheric railway	126,8 km	4.844.103.006,40
	Elimination of bottlenecks	78 un	365.191.100,32
	Restoration of railway	1.951,8 km	7.369.947.095,57
	Railway restoration - Urban	121,2 km	3.836.765.858,59
Waterway	Channel opening	321,0 km	3.625.781.961,39
	Waterway adjustment	5.321,5 km	5.216.965.299,58
	Cargo riverboat	14 un	7.157.840.286,04

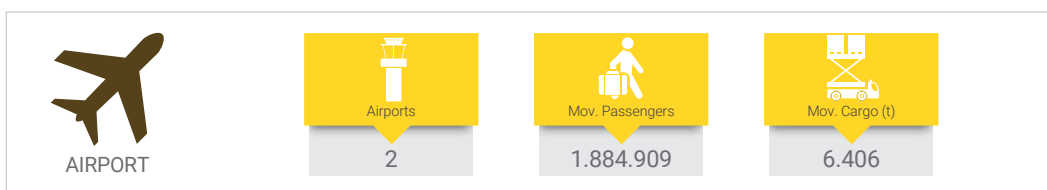
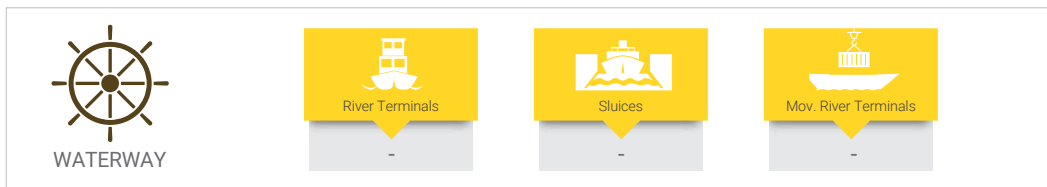
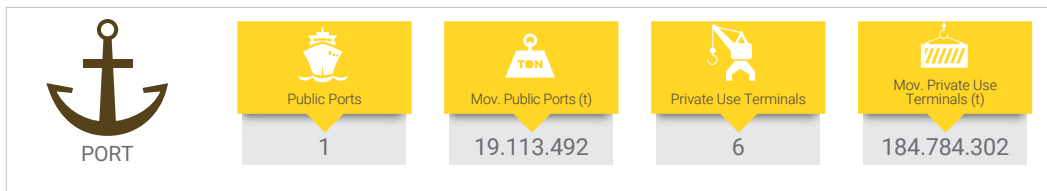
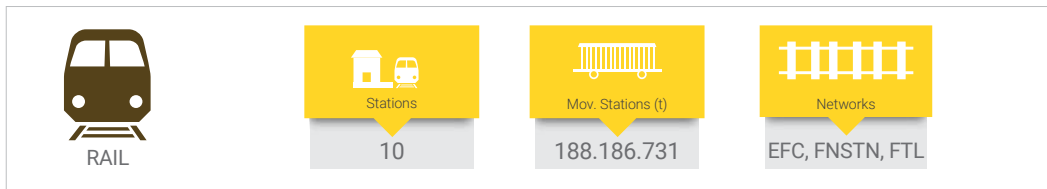
Table 81 - Minimum Investment - Northeast Region

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Port	Waterway access to port	19.727.059,6 m³	1.381.818.557,37
	Land access to port	150,3 km	3.902.746.247,53
	Port area	91 un	11.266.992.040,19
	Port construction	20 un	14.503.947.044,18
Road	Adjustment of express lane or BRT or RTM	27,0 km	176.412.814,60
		1 un	48.059.438,26
	Road adjustment	9.415,1 km	10.942.747.757,60
	Urban road adjustment	64,1 km	1.042.875.993,47
	Road construction	2.165,4 km	11.035.063.340,61
	Urban road construction	111,7 km	7.971.359.796,82
	Road duplication	7.406,5 km	82.692.631.996,19
	Duplication of urban road	11,2 km	143.287.421,53
	Implementation of express lane or BRT or RTM	454,9 km	7.377.104.121,74
	Paving of road	1.818,6 km	7.862.883.086,15
	Restoration of pavement on road	4.967,7 km	16.487.993.831,58
Terminal	Terminal adjustment	3 un	89.110.412,84
	Station construction	1 un	42.350.000,00
	Terminal construction	38 un	2.020.417.190,20
<b>Total</b>			<b>257.891.347.345,96</b>



## 7.2.1 MARANHÃO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFC - Carajás Railway; FNSTN - North-South Railway - North Line; FTL - Transnordestina Logística Railway.

Table 82 - Project list - Maranhão

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1565	Implementation of air navigation groups at Brigadeiro Lysias Augusto Rodrigues Airport in Carolina	1 un	Carolina, MA	Carolina, MA
		1566	Expansion of Mayor Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		2915	Restoration of runway system at Prefeito Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		3391	Repair of runway at Marechal Cunha Machado Airport in São Luís	1 un	São Luís, MA	São Luís, MA
	Airport construction	1567	Construction of new passenger terminal at Prefeito Renato Moreira Airport in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
Rail	Railway construction	1374	Construction of rail connection between Transnordestina and North-South railways from Porto Franco to Benedito Leite	396,0 km	Porto Franco, MA	Benedito Leite, MA
		1386	Construction of North-South Railway from Açailândia to Itinga do Maranhão	72,2 km	Açailândia, MA	Itinga do Maranhão, MA
	Elimination of bottlenecks	1692	Removal of right of way intrusion in Timon	1 un	Timon, MA	Timon, MA
		3261	Removal of level crossing in Caxias	1 un	Caxias, MA	Caxias, MA
		3262	Removal of level crossing in Itapecuru Mirim	1 un	Itapecuru Mirim, MA	Itapecuru Mirim, MA
	Restoration of railway	1482	Restoration of passenger train railway from Codó to Timon	159,4 km	Codó, MA	Timon, MA
Waterway	Channel opening	2866-INT	Rock removal at Tocantins River waterway from Estreito to Marabá	321,0 km	Estreito, MA	Marabá, PA
	Waterway adjustment	1347	Adjustment of Mearim River waterway from Barra do Corda to Arari	520,0 km	Barra do Corda, MA	Arari, MA
		1351	Rock removal, signaling and beacon installation at Balsas River waterway from Balsas to Benedito Leite	255,0 km	Balsas, MA	Benedito Leite, MA

Table 82 - Project list - Maranhão

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Waterway	Waterway adjustment	1340-INT	Adjustment of Parnaíba River waterway from Alto Parnaíba to Luís Correia	1.262,0 km	Alto Parnaíba, MA	Luís Correia, PI		
		3051-INT	Dredging, signaling and beacon installation at Parnaíba River Delta waterway from Ilha Grande to Tutóia	78,0 km	Ilha Grande, PI	Tutóia, MA		
		1336-INT	Dredging, signaling and beacon installation at Tocantins River waterway from Peixe to Marabá	1.021,0 km	Peixe, TO	Marabá, PA		
	Cargo riverboat	3054	Construction of Taboa sluice on Balsas River waterway	1 un	Sambaíba, MA	Sambaíba, MA		
		0385-INT	Construction of Boa Esperança sluice on Parnaíba River waterway	1 un	Guadalupe, PI	São João dos Patos, MA		
		1296-INT	Construction of Cachoeira sluice on Parnaíba River waterway	1 un	Floriano, PI	Barão de Grajaú, MA		
		1297-INT	Construction of Castelhana sluice on Parnaíba River waterway	1 un	Palmeirais, PI	Parnarama, MA		
		1298-INT	Construction of Estreito sluice on Parnaíba River waterway	1 un	Amarante, PI	São Francisco do Maranhão, MA		
		1299-INT	Construction of Ribeiro Gonçalves sluice on Parnaíba River waterway	1 un	Ribeiro Gonçalves, PI	Loreto, MA		
		1300-INT	Construction of Uruçuí sluice on Parnaíba River waterway	1 un	Uruçuí, PI	Benedito Leite, MA		
		3053-INT	Construction of Canto do Rio sluice on Parnaíba River waterway	1 un	Santa Filomena, PI	Tasso Fragoso, MA		
		0212-INT	Construction of Serra Quebrada sluice on Tocantins River waterway	1 un	Governador Edison Lobão, MA	Itaguatins, TO		
		1258-INT	Construction of Estreito sluice on Tocantins River waterway	1 un	Estreito, MA	Palmeiras do Tocantins, TO		
		Port	Waterway access to port	0253	Dredging of internal channel, turning basin and berths at Port of Itaqui in São Luís	38.752,0 m³	São Luís, MA	São Luís, MA
			Land access to port	2132	Construction of south road access to Port of Itaqui in São Luís	2,0 km	São Luís, MA	São Luís, MA

Table 82 - Project list - Maranhão

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Port	Land access to port	3575	Adjustment of road access to Port of Itaqui in São Luís via BR-135	6,3 km	São Luís, MA	São Luís, MA	
		2125	Implementation and modernization of equipment at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA	
	Port area	2127	Construction of berths 86, 89, 90, 91, 92, 93 and 94 at Port of Itaqui in São Luís	7 un	São Luís, MA	São Luís, MA	
		2128	Construction of berthing dolphin at the oil pier at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA	
		2130	Construction of back-up area of berths 104 and 105 at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA	
		2131	Construction of berths 95, 96 and 97 and their backup areas at Port of Itaqui in São Luís	3 un	São Luís, MA	São Luís, MA	
		2133	Construction of berths 98 and 99 and their back-up areas at Port of Itaqui in São Luís	2 un	São Luís, MA	São Luís, MA	
		2134	Construction of back-up area of berths 100 and 101 at Port of Itaqui in São Luís	2 un	São Luís, MA	São Luís, MA	
		2917	Implementation of VTMS at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA	
		Port construction	2136	Construction of container terminal at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
			2137	Construction of general freight terminal at Port of Itaqui in São Luís	1 un	São Luís, MA	São Luís, MA
		Road	Road adjustment	2538	Implementation of signs on BR-010 from Carolina to Estreito	95,4 km	Carolina, MA
	2589			Implementation of additional lane on BR-316 from Peritoró to Timo	90,0 km	Peritoró, MA	Timon, MA
2590	Implementation of signs on BR-316 from Monção to Alto Alegre do Maranhão			127,3 km	Monção, MA	Alto Alegre do Maranhão, MA	

Table 82 - Project list - Maranhão

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Road	Road adjustment	2591	Implementation of signs on BR-135 in São Luís	15,2 km	São Luís, MA	São Luís, MA		
		2592	Implementation of additional lane on BR-135 road from Presidente Dutra to Sucupira do Riachão	196,0 km	Presidente Dutra, MA	Sucupira do Riachão, MA		
		2618	Implementation of additional lane on BR-010 from Açailândia to Itinga from Maranhão	40,0 km	Açailândia, MA	Itinga do Maranhão, MA		
		3583	Implementation of signs on BR-135 from Peritoró to Presidente Dutra	117,6 km	Peritoró, MA	Presidente Dutra, MA		
		3588	Implementation of signs on BR-222 from Chapadinha to Itapecuru Mirim	144,7 km	Chapadinha, MA	Itapecuru Mirim, MA		
		3590	Implementation of signs on BR-226 from Matões to Grajaú	312,7 km	Matões, MA	Grajaú, MA		
		3595	Implementation of signs on BR-230 from Balsas to Carolina	165,8 km	Balsas, MA	Carolina, MA		
		3596	Implementation of signs on MA-106 and MA-106 / BR 308 in Alcântara	56,7 km	Alcântara, MA	Alcântara, MA		
		3598	Implementation of signs on BR-316 from Boa Vista do Gurupi to Governador Nunes Freire	67,2 km	Boa Vista do Gurupi, MA	Governador Nunes Freire, MA		
		3602	Implementation of signs on MAT-402 / BR-402, BR-402 and MA-225 from Morros to Barreirinhas	157,7 km	Morros, MA	Barreirinhas, MA		
		3604	Implementation of signs on MA-034 from Tutóia to Araiões	38,3 km	Tutóia, MA	Araiões, MA		
		3609	Adjustment of crossing on BR-010 in Imperatriz	14,4 km	Imperatriz, MA	Imperatriz, MA		
			Road construction	0930	Construction of BR-235 from Alto Parnaíba to Balsas	110,0 km	Alto Parnaíba, MA	Balsas, MA
				2173	Construction of BR-308 from Central do Maranhão to Bequimão	35,0 km	Central do Maranhão, MA	Bequimão, MA
			Road duplication	2207	Duplication of BR-135 from Bacabeira to Miranda do Norte	102,2 km	Bacabeira, MA	Miranda do Norte, MA

Table 82 - Project list - Maranhão

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	2208	Duplication of BR-222 from Miranda do Norte to Açailândia	424,3 km	Miranda do Norte, MA	Açailândia, MA
		2209	Duplication of BR-135 from Alto Alegre do Maranhão to Peritoró	24,9 km	Alto Alegre do Maranhão, MA	Peritoró, MA
		2210	Duplication of BR-010 from Estreito to Açailândia	192,0 km	Estreito, MA	Açailândia, MA
	Implementation of express lane or BRT or RTM	3745	Implementation of preferential bus lane on Metropolitana Avenue from São Luís to Raposa	26,5 km	São Luís, MA	Raposa, MA
		3747	Implementation of Metropolitan BRT from São Luís to Paço do Lumiar	7,2 km	São Luís, MA	Paço do Lumiar, MA
	Paving of road	0701	Paving of BR-226 from Timon to Matões	98,8 km	Timon, MA	Matões, MA
		2855	Paving of MA-364 / BR-135 in São João dos Patos	30,0 km	São João dos Patos, MA	São João dos Patos, MA
	Restoration of pavement on road	0128	Restoration of pavement on MA-006 from Buriticupu to São Raimundo das Mangabeiras	415,3 km	Buriticupu, MA	São Raimundo das Mangabeiras, MA
		0269	Restoration of pavement on MA-106 and MA-106 / BR-308 from Governador Nunes Freire to Alcântara	180,7 km	Governador Nunes Freire, MA	Alcântara, MA
		3578	Restoration of pavement on BR-135 from São Luís to Bacabeira	25,1 km	São Luís, MA	Bacabeira, MA
		3582	Restoration of pavement on BR-135 from Miranda do Norte to Alto Alegre do Maranhão	72,5 km	Miranda do Norte, MA	Alto Alegre do Maranhão, MA
		3589	Restoration of pavement on MA-034 / BR-222, MA-230 / BR-222 and MA-234 / BR-222 from Brejo to Chapadinha	63,4 km	Brejo, MA	Chapadinha, MA
		3591	Restoration of pavement on BR-226 from Grajaú to Porto Franco	149,9 km	Grajaú, MA	Porto Franco, MA
		3592	Restoration of pavement on BR-230 from Barão de Grajaú to Sucupira do Riachão	56,9 km	Barão de Grajaú, MA	Sucupira do Riachão, MA



Table 82 - Project list - Maranhão

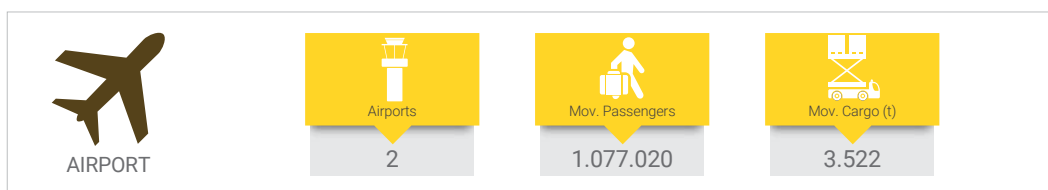
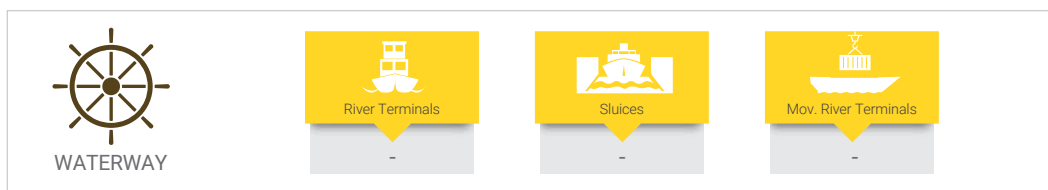
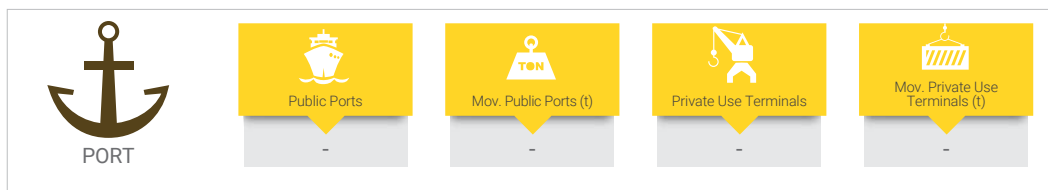
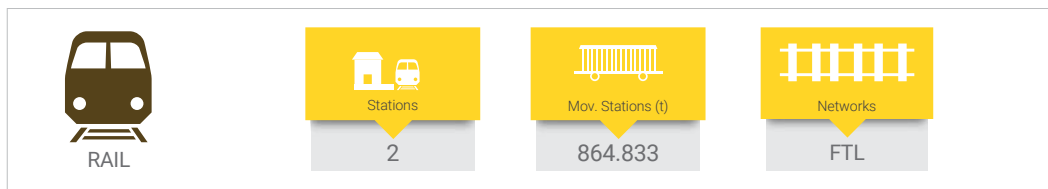
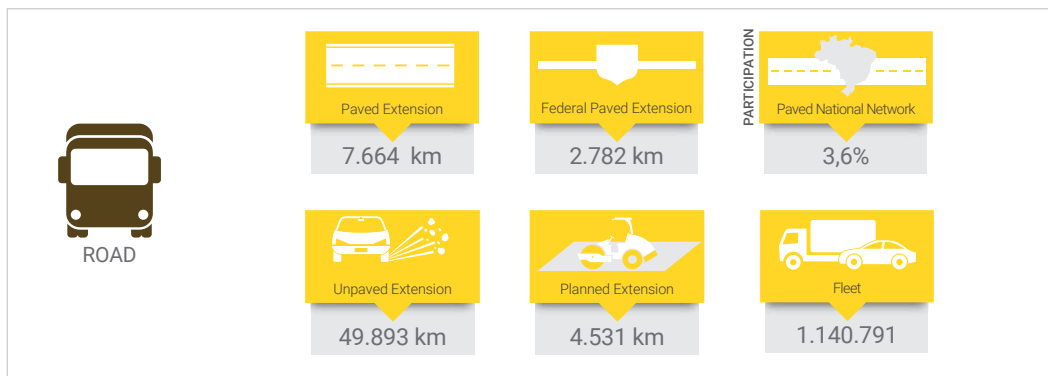
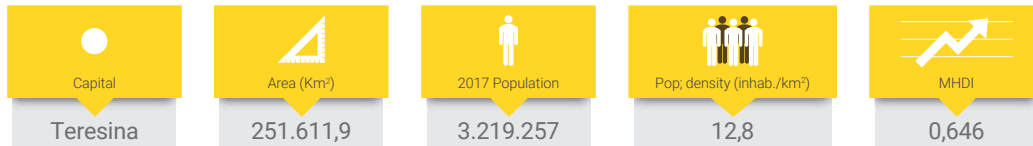
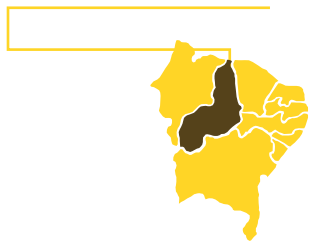
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3593	Restoration of pavement on BR-230 from São Raimundo das Mangabeiras to Balsas	38,6 km	São Raimundo das Mangabeiras, MA	Balsas, MA
		3597	Restoration of pavement on MA-303 / BR-308, MA-006 / BR-308 and MA-006 from Serrano do Maranhão to Pinheiro	126,4 km	Serrano do Maranhão, MA	Pinheiro, MA
		3600	Restoration of pavement on MA-006 / BR-330 and MA-006 from Balsas to Alto Parnaíba	235,1 km	Balsas, MA	Alto Parnaíba, MA
		3601	Restoration of pavement on MA-110 / BR-402 from Bacabeira to Morros	37,1 km	Bacabeira, MA	Morros, MA
		3603	Restoration of pavement on MA-315 from Paulino Neves to Tutóia	28,5 km	Paulino Neves, MA	Tutóia, MA
		3605	Restoration of pavement on MA-345 / BR-402, MA-346/ BR-402, MA-345 and MA-034 from Brejo to Araiões	140,0 km	Brejo, MA	Araiões, MA
Terminal	Terminal adjustment	1917	Expansion and adjustment of the Cujupe Terminal in Alcântara	1 un	Alcântara, MA	Alcântara, MA
	Terminal construction	0373	Construction of intermodal cargo terminal in Estreito	1 un	Estreito, MA	Estreito, MA
		0375	Construction of intermodal cargo terminal in Imperatriz	1 un	Imperatriz, MA	Imperatriz, MA
		1784	Construction of rail freight terminal in Balsas	1 un	Balsas, MA	Balsas, MA
		1789	Construction of waterway cargo terminal in Balsas	1 un	Balsas, MA	Balsas, MA
		1790	Construction of waterway cargo terminal in Barra do Corda	1 un	Barra do Corda, MA	Barra do Corda, MA
		1864	Construction of waterway cargo terminal in Carolina	1 un	Carolina, MA	Carolina, MA
		2848	Construction of parking lot for cargo vehicles in Greater São Luís Metropolitan Region	1 un	São Luís, MA	São Luís, MA

Table 83 - Minimum Investment - Maranhão

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	4 un	35.737.350,18
	Airport construction	1 un	224.904.206,50
Rail	Railway construction	468,2 km	4.344.732.628,01
	Elimination of bottlenecks	3 un	15.593.007,03
	Restoration of railway	159,4 km	722.151.451,32
Waterway	Channel opening	321,0 km	3.625.781.961,39
	Waterway adjustment	3.136,0 km	3.521.130.386,22
	Cargo riverboat	10 un	6.825.564.584,40
Port	Waterway access to port	38.752,0 m³	1.197.224,56
	Land access to port	8,3 km	313.952.422,67
	Port area	18 un	4.818.182.976,93
	Port construction	2 un	570.752.599,36
Road	Road adjustment	1.639,0 km	1.445.341.501,62
	Road construction	145,0 km	477.290.764,45
	Road duplication	743,4 km	8.389.112.844,43
	Implementation of express lane or BRT or RTM	33,7 km	316.083.347,91
	Paving of road	128,8 km	639.111.097,12
	Restoration of pavement on road	1.569,5 km	5.168.212.524,52
Terminal	Terminal adjustment	1 un	16.805.906,94
	Terminal construction	7 un	535.042.285,16
<b>Total</b>			<b>42.006.681.070,72</b>

## 7.2.2 PIAUÍ



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTL - Transnordestina Logística Railway.

Table 84 - Project list - Piauí

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1673	Restoration of Oeiras Airport	1 un	Oeiras, PI	Oeiras, PI
		3392	Repair of runway at Senador Petrônio Portella Airport in Teresina	1 un	Teresina, PI	Teresina, PI
	Airport construction	1663	Construction of aerodrome in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI
		1664	Construction of aerodrome in Corrente	1 un	Corrente, PI	Corrente, PI
		1665	Construction of aerodrome in Cristino Castro	1 un	Cristino Castro, PI	Cristino Castro, PI
		1666	Construction of aerodrome in Curimatá	1 un	Curimatá, PI	Curimatá, PI
		1667	Construction of aerodrome in Currais	1 un	Currais, PI	Currais, PI
		1668	Construction of aerodrome in Dom Inocêncio	1 un	Dom Inocêncio, PI	Dom Inocêncio, PI
		1669	Construction of aerodrome in Gilbués	1 un	Gilbués, PI	Gilbués, PI
		1670	Construction of aerodrome in Guaribas	1 un	Guaribas, PI	Guaribas, PI
		1671	Construction of aerodrome in Itaueira	1 un	Itaueira, PI	Itaueira, PI
		1672	Construction of aerodrome in Luzilândia	1 un	Luzilândia, PI	Luzilândia, PI
		1675	Construction of aerodrome in Parnaguá	1 un	Parnaguá, PI	Parnaguá, PI
		1676	Construction of aerodrome in Paulistana	1 un	Paulistana, PI	Paulistana, PI
		1677	Construction of aerodrome in Pedro II	1 un	Pedro II, PI	Pedro II, PI
		1678	Construction of aerodrome in Pimenteiras	1 un	Pimenteiras, PI	Pimenteiras, PI
		1679	Construction of aerodrome in Piracuruca	1 un	Piracuruca, PI	Piracuruca, PI
		1680	Construction of aerodrome in Piripiri	1 un	Piripiri, PI	Piripiri, PI
		1681	Construction of aerodrome in Redenção do Gurguéia	1 un	Redenção do Gurguéia, PI	Redenção do Gurguéia, PI
		2968	Construction of passenger terminal at Gurguéia Airport in Bom Jesus	1 un	Bom Jesus, PI	Bom Jesus, PI

Table 84 - Project list - Piauí

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Railway construction	1354	Construction of Nova Transnordestina Railway from Simões to Eliseu Martins	358,0 km	Simões, PI	Eliseu Martins, PI	
		1373	Construction of rail connection between Transnordestina and North-South railways from Uruçuí to Eliseu Martins	224,3 km	Uruçuí, PI	Eliseu Martins, PI	
		3057	Construction of rail link from Parnaíba to Luís Correia	14,8 km	Parnaíba, PI	Luís Correia, PI	
	Elimination of bottlenecks	Construction of monorail or LRT or atmospheric railway	3497	Construction of LRT line in Teresina	13,6 km	Teresina, PI	Teresina, PI
		1700	Removal of right of way intrusion in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI	
		3258	Removal of level crossing in Teresina	1 un	Teresina, PI	Teresina, PI	
	Restoration of railway	3259	Removal of level crossings in Altos	2 un	Altos, PI	Altos, PI	
		3260	Removal of level crossing in Castelo do Piauí	1 un	Castelo do Piauí, PI	Castelo do Piauí, PI	
		1406	Restoration of railway from Altos to Parnaíba	275,2 km	Altos, PI	Parnaíba, PI	
		3067	Restoration of passenger train railway from Teresina to Altos	45,6 km	Teresina, PI	Altos, PI	
Waterway	Waterway adjustment	1340-INT	Adjustment of Parnaíba River waterway from Alto Parnaíba to Luís Correia	1.262,0 km	Alto Parnaíba, MA	Luís Correia, PI	
		3051-INT	Dredging, signaling and beacon installation at Parnaíba River Delta waterway from Ilha Grande to Tutóia	78,0 km	Ilha Grande, PI	Tutóia, MA	
	Cargo riverboat	0385-INT	Construction of Boa Esperança sluice on Parnaíba River waterway	1 un	Guadalupe, PI	São João dos Patos, MA	
		1296-INT	Construction of Cachoeira sluice on Parnaíba River waterway	1 un	Floriano, PI	Barão de Grajaú, MA	
		1297-INT	Construction of Castelhana sluice on Parnaíba River waterway	1 un	Palmeirais, PI	Parnarama, MA	

Table 84 - Project list - Piauí

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	1298-INT	Construction of Estreito sluice on Parnaíba River waterway	1 un	Amarante, PI	São Francisco do Maranhão, MA
		1299-INT	Construction of Ribeiro Gonçalves sluice on Parnaíba River waterway	1 un	Ribeiro Gonçalves, PI	Loreto, MA
		1300-INT	Construction of Uruçuí sluice on Parnaíba River waterway	1 un	Uruçuí, PI	Benedito Leite, MA
		3053-INT	Construction of Canto do Rio sluice on Parnaíba River waterway	1 un	Santa Filomena, PI	Tasso Fragoso, MA
Portuária	Waterway access to port	2012	Port deepening via dredging at Port of Luís Correia	982.081,0 m³	Luís Correia, PI	Luís Correia, PI
	Port construction	2011	Construction of port freight terminal at Port of Luís Correia	4 un	Luís Correia, PI	Luís Correia, PI
Road	Road adjustment	3765	Implementation of Operations Control Center in Teresina	1 un	Teresina, PI	Teresina, PI
		2343	Implementation of additional lane on BR-316 from Vila Nova do Piauí to Marcolândia	40,0 km	Vila Nova do Piauí, PI	Marcolândia, PI
		2477	Implementation of signs on PI-140 from Floriano to Canto do Buriti	163,1 km	Floriano, PI	Canto do Buriti, PI
		2560	Implementation of signs on BR-230 from Oeiras to Floriano	116,7 km	Oeiras, PI	Floriano, PI
		2562	Implementation of signs on BR-343 from Lagoinha do Piauí to Floriano	151,0 km	Lagoinha do Piauí, PI	Floriano, PI
		2563	Implementation of additional lane on BR-407 from Geminiano to Acauã	140,0 km	Geminiano, PI	Acauã, PI
		2652	Implementation of signs on PI-141/BR-324 and PI-140/BR-324 from Eliseu Martins to Dirceu Arcoverde	249,0 km	Eliseu Martins, PI	Dirceu Arcoverde, PI
		2708	Implementation of additional lane on BR-343 and BR-135 from Floriano to Cristalândia do Piauí	371,0 km	Floriano, PI	Cristalândia do Piauí, PI

Table 84 - Project list - Piauí

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2719	Implementation of signs on BR-402 from Parnaíba to Luís Correia	65,7 km	Parnaíba, PI	Luís Correia, PI
		3478	Implementation of signs on BR-222 from Batalha to São João do Arraial	55,4 km	Batalha, PI	São João do Arraial, PI
		3480	Implementation of additional lane on BR-020 from Fartura do Piauí to Bela Vista do Piauí	86,0 km	Fartura do Piauí, PI	Bela Vista do Piauí, PI
		3485	Implementation of signs on BR-235 road in Monte Alegre from Piauí to Santa Filomena	134,9 km	Monte Alegre do Piauí, PI	Santa Filomena, PI
		3491	Implementation of signs on BR-343 from Parnaíba to Altos	269,1 km	Parnaíba, PI	Altos, PI
		3495	Implementation of signs on BR-402 from Buriti Lopes to Parnaíba	13,5 km	Buriti dos Lopes, PI	Parnaíba, PI
		3498	Implementation of signs on BR-404 from Piripiri to Pedro II	53,8 km	Piripiri, PI	Pedro II, PI
		3499	Implementation of additional lane on BR-404 in Pedro II and Milton Brandão	12,0 km	Pedro II, PI	Pedro II, PI
		3966	Construction of Aposento bridge on BR-222 in Batalha	0,1 km	Batalha, PI	Batalha, PI
	Urban road adjustment	3760	Construction of bridge over Poti River in Teresina	-	Teresina, PI	Teresina, PI
	Road construction	0932	Construction of BR-235 from Caracol to Bom Jesus	150,7 km	Caracol, PI	Bom Jesus, PI
		0935	Construction of BR-226 from Juazeiro do Piauí to Coivaras	74,8 km	Juazeiro do Piauí, PI	Coivaras, PI
		2183	Construction of BR-222 from São João do Arraial to Matias Olímpio	36,3 km	São João do Arraial, PI	Matias Olímpio, PI
		2195	Construction of PI-144 from São Raimundo Nonato to Dom Inocêncio	78,0 km	São Raimundo Nonato, PI	Dom Inocêncio, PI
		2198	Construction of PI-414 from Avelino Lopes to Morro Cabeça no Tempo	55,0 km	Avelino Lopes, PI	Morro Cabeça no Tempo, PI
3481		Construction of BR-226 road in Buriti dos Montes	37,0 km	Buriti dos Montes, PI	Buriti dos Montes, PI	

Table 84 - Project list - Piauí

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road duplication	2561	Duplication of BR-316 from Teresina to Agricolândia	75,9 km	Teresina, PI	Agricolândia, PI	
		3479	Duplication of BR-020 from Simplício Mendes to Geminiano	128,2 km	Simplício Mendes, PI	Geminiano, PI	
		3483	Duplication of BR-230 from Vila Nova do Piauí to Dom Expedito Lopes	98,6 km	Vila Nova do Piauí, PI	Dom Expedito Lopes, PI	
		3500	Duplication of BR-343 road in Parnaíba	18,3 km	Parnaíba, PI	Parnaíba, PI	
	Implementation of express lane or BRT or RTM	3750	Implementation of North Corridor II in Teresina	9,7 km	Teresina, PI	Teresina, PI	
		3752	Implementation of the South Corridor I in Teresina	5,5 km	Teresina, PI	Teresina, PI	
		3754	Implementation of East-Southeast Corridor in Teresina	-	Teresina, PI	Teresina, PI	
		3758	Implementation of preferential lanes in Teresina	44,4 km	Teresina, PI	Teresina, PI	
		3759	Implementation of North-East Corridor in Teresina	12,9 km	Teresina, PI	Teresina, PI	
		Paving of road	2200	Paving of PI-258 from Brasileira to Domingos Mourão	49,0 km	Brasileira, PI	Domingos Mourão, PI
			2205	Paving of PI-459 from Queimada Nova to Paulistana	80,0 km	Queimada Nova, PI	Paulistana, PI
	Restoration of pavement on road	2512	Restoration of pavement on PI-141 road from Canto do Buriti to São João do Piauí	79,3 km	Canto do Buriti, PI	São João do Piauí, PI	
		3482	Restoration of pavement on BR-226 road from Coivaras to Teresina	74,2 km	Coivaras, PI	Teresina, PI	
		3502	Restoration of pavement on PI-218/ BR-135 road from Guadalupe to Jerumenha	38,8 km	Guadalupe, PI	Jerumenha, PI	
	Terminal	Terminal construction	0433	Terminal construction intermodal cargo terminal in Teresina	1 un	Teresina, PI	Teresina, PI
0434			Terminal construction rail freight terminal in Eliseu Martins	1 un	Eliseu Martins, PI	Eliseu Martins, PI	



Table 84 - Project list - Piauí

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	2387	Construction of waterway cargo terminal in Santa Filomena	1 un	Santa Filomena, PI	Santa Filomena, PI
		3416	Construction of parking lot for cargo vehicles in the Greater Teresina Integrated Grande Teresina	1 un	Teresina, PI	Teresina, PI

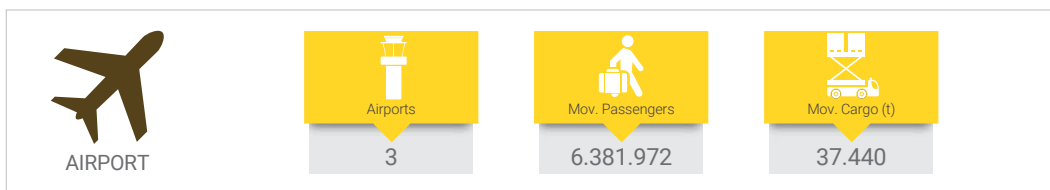
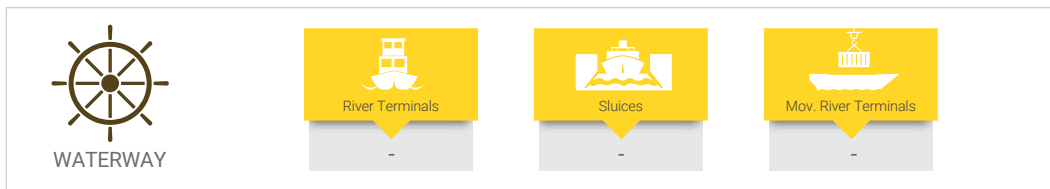
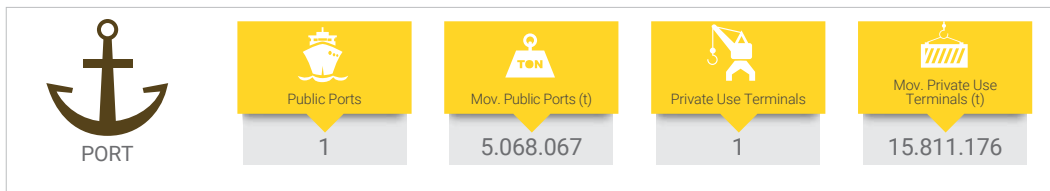
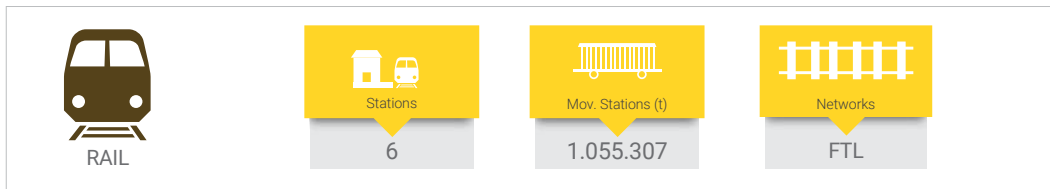
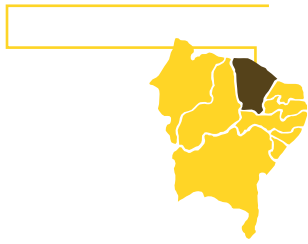
Note: No information was found for the extensions of projects 3754 and 3760.

Table 85 - Minimum Investment - Piauí

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	8.988.801,48
	Airport construction	18 un	92.968.044,75
Rail	Railway construction	597,1 km	3.706.773.827,58
	Construction of monorail or LRT or atmospheric railway	13,6 km	674.305.179,78
	Elimination of bottlenecks	5 un	35.365.912,69
	Restoration of railway	320,8 km	724.514.323,15
Waterway	Waterway adjustment	1.340,0 km	1.508.333.093,51
	Cargo riverboat	7 un	3.946.489.313,92
Port	Waterway access to port	982.081,0 m³	90.241.100,67
	Port construction	4 un	613.824.134,60
Road	Adjustment of express lane or BRT or RTM	1 un	48.059.438,26
	Road adjustment	1.921,3 km	2.308.894.586,53
	Urban road adjustment	-	57.346.314,39
	Road construction	431,8 km	1.946.877.350,08
	Road duplication	321,0 km	3.710.303.169,54
	Implementation of express lane or BRT or RTM	72,5 km	179.491.477,27
	Paving of road	129,0 km	648.215.456,54
	Restoration of pavement on road	192,3 km	633.225.402,01
Terminal	Terminal construction	4 un	518.464.669,39
<b>Total</b>			<b>21.452.681.596,14</b>

Note: No information was found for the extensions of projects 3754 and 3760, which belong to the road paving category.

### 7.2.3 CEARÁ



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTL - Transnordestina Logística Railway.

Table 86 - Project list - Ceará

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Airport	Adjustment of airport	0325	Expansion of passenger terminal at Pinto Martins Airport in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		1558	Expansion of passenger terminal at Orlando Bezerra de Menezes Airport in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		2912	Implementation of equipment and runway system at Jijoca de Jericoacoara Airport	1 un	Jijoca de Jericoacoara, CE	Jijoca de Jericoacoara, CE
		2914	Restoration of aircraft yard at Orlando Bezerra de Menezes Airport in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		3389	Repair of runway at Orlando Bezerra de Menezes Airport in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
Rail	Railway construction	0561	Construction of Nova Transnordestina Railway from Missão Velha to São Gonçalo do Amarante	526,0 km	Missão Velha, CE	São Gonçalo do Amarante, CE
		0613	Construction of rail link from Crateús to Piquet Carneiro	181,1 km	Crateús, CE	Piquet Carneiro, CE
		1717	Construction of Sobral Rail Bypass	14,1 km	Sobral, CE	Sobral, CE
	Construction of metro or urban train	1231	Construction of East Line of Fortaleza metro	12,4 km	Fortaleza, CE	Fortaleza, CE
	Construction of monorail or LRT or atmospheric railway	0829	Construction of the Parangaba-Mucuripe branch of LRT in Fortaleza	12,7 km	Fortaleza, CE	Fortaleza, CE
		2799	Construction of the Caucaia-Pecém branch of LRT in Caucaia	52,0 km	Caucaia, CE	Caucaia, CE
	Elimination of bottlenecks	1743	Removal of level crossing in Juazeiro do Norte	1 un	Juazeiro do Norte, CE	Juazeiro do Norte, CE
		3088	Removal of right of way intrusions in Fortaleza	7 un	Fortaleza, CE	Fortaleza, CE
		3089	Removal of right of way intrusions in Sobral	4 un	Sobral, CE	Sobral, CE
		3090	Removal of right of way intrusion in Itapipoca	1 un	Itapipoca, CE	Itapipoca, CE
		3265	Removal of level crossing in Tamboril	1 un	Tamboril, CE	Tamboril, CE

Table 86 - Project list - Ceará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Rail	Elimination of bottlenecks	3266	Removal of level crossing in Ipu	1 un	Ipu, CE	Ipu, CE
		3267	Removal of level crossings in Itapipoca	2 un	Itapipoca, CE	Itapipoca, CE
		3268	Removal of level crossing in Tururu	1 un	Tururu, CE	Tururu, CE
		3269	Removal of level crossing in Umirim	1 un	Umirim, CE	Umirim, CE
		3270	Removal of level crossing in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		3271	Removal of level crossing in Caucaia	1 un	Caucaia, CE	Caucaia, CE
		3272	Removal of level crossings in Fortaleza	2 un	Fortaleza, CE	Fortaleza, CE
	Railway restoration - Urban	2800	Renovation of West Line of LRT from Caucaia to Fortaleza	19,5 km	Caucaia, CE	Fortaleza, CE
		2801	Renovation of Parangaba-Mucuripe branch of LRT in Fortaleza	15,5 km	Fortaleza, CE	Fortaleza, CE
		3489	Modernização de sistema operacional na Linha Sul do metrô de Pacatuba a Fortaleza	1 un	Pacatuba, CE	Fortaleza, CE
Port	Waterway access to port	2986	Dredging of access channel to passenger terminal of Port of Mucuripe in Fortaleza	500.000,0 m³	Fortaleza, CE	Fortaleza, CE
	Land access to port	2113	Construction of road access over breakwater at Port of Pecém in São Gonçalo do Amarante	1,0 km	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2117	Construction of connector bridge to breakwater at Port of Pecém in São Gonçalo do Amarante	1,5 km	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2119	Adjustment of road access to Port of Pecém via CE-155 in São Gonçalo do Amarante	20,1 km	Caucaia, CE	São Gonçalo do Amarante, CE
		3010	Construction of road access to Port of Pecém via CE-576 in São Gonçalo do Amarante	8,0 km	São Gonçalo do Amarante, CE	Caucaia, CE

Table 86 - Project list - Ceará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Port	Port area	2115	Construction of berths for liquid and dry bulk cargo at Port of Pecém in São Gonçalo do Amarante	6 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2116	Implementation of equipment at Port of Pecém in São Gonçalo do Amarante	3 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2118	Construction of breakwater at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2122	Expansion of Multiple Use Terminal at Port of Pecém in São Gonçalo do Amarante	3 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		2989	Expansion of protective mole at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
	Port construction	2991	Implementation of VTMS at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		1961	Construction of intermodal cargo terminal at Port of Mucuripe in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
		2120	Construction of freight terminal at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		3005	Construction of intermodal cargo terminal at Port of Pecém in São Gonçalo do Amarante	1 un	São Gonçalo do Amarante, CE	São Gonçalo do Amarante, CE
		Road	Road adjustment	2460	Implementation of signs on CE-155 in Caucaia	9,0 km
2531	Implementation of additional lane on BR-020 road from Pedra Branca to Caucaia			138,0 km	Pedra Branca, CE	Caucaia, CE
2583	Implementation of additional lane on BR-230 road from Ipaumirim to Farias Brito			96,0 km	Ipaumirim, CE	Farias Brito, CE
2713	Implementation of signs on BR-403, CE-183/BR-403, CE-366/BR-403 and CE-329/BR-403 roads from Sobral to Ipu			86,7 km	Sobral, CE	Ipu, CE
3545	Implementation of additional lane on BR-116 road from Icó to Ipaumirim			40,0 km	Icó, CE	Ipaumirim, CE

Table 86 - Project list - Ceará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State	
Road	Road adjustment	3546	Implementation of signs on BR-116 road from Barro to Penaforte	114,6 km	Barro, CE	Penaforte, CE	
		3550	Implementation of additional 3550 lane on CE-060/BR-122 and CE-292/BR-122 roads from Caririaçu to Crato	48,4 km	Caririaçu, CE	Crato, CE	
		3552	Adjustment of crossing on BR-222 in Tianguá	6,3 km	Tianguá, CE	Tianguá, CE	
		3564	Implementation of signs on CE-138/BR-226 road from Ererê to Pereiro	18,4 km	Ererê, CE	Pereiro, CE	
		3570	Implementation of additional duplication lane on BR-226 road from Senador Pompeu to Pedra Branca	68,0 km	Senador Pompeu, CE	Pedra Branca, CE	
		3574	Implementation of signs on CE-from Eusébio to Aracati	125,7 km	Eusébio, CE	Aracati, CE	
		3577	Implementation of signs on CE-085 from Cruz to Granja	64,9 km	Cruz, CE	Granja, CE	
		3581	Implementation of signs on CE-341 in Paracuru	14,1 km	Paracuru, CE	Paracuru, CE	
		3584	Implementation of signs on CE-348 in Caucaia	17,5 km	Caucaia, CE	Caucaia, CE	
		3586	Implementation of signs on CE-362 road from Granja to Sobral	99,4 km	Granja, CE	Sobral, CE	
	Road construction	0713	Construction of BR-230 road from Farias Brito to Campos Sales	85,0 km	Farias Brito, CE	Campos Sales, CE	
		2165	Construction of BR-226 road in Ererê	9,2 km	Ererê, CE	Ererê, CE	
		2166	Construction of BR-122 road from Várzea Alegre to Caririaçu	27,0 km	Várzea Alegre, CE	Caririaçu, CE	
		2169	Construction of CE-187 from Barroquinha to Viçosa do Ceará	112,5 km	Barroquinha, CE	Viçosa do Ceará, CE	
		3541	Construction of side road on BR-116 from Fortaleza to Pacajus	12,0 km	Fortaleza, CE	Pacajus, CE	
		Urban road construction	1239	Construction of bridge over Cocó River in Fortaleza	0,9 km	Fortaleza, CE	Fortaleza, CE

Table 86 - Project list - Ceará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Road	Road duplication	0576	Duplication of BR-116 road from Tabuleiro do Norte to Jaguaribe	112,4 km	Tabuleiro do Norte, CE	Jaguaribe, CE
		2190	Duplication of BR-020 road from Caucaia to Eusébio	37,9 km	Caucaia, CE	Eusébio, CE
		2586	Duplication of BR-222 road in Sobral	17,8 km	Sobral, CE	Sobral, CE
		2587	Duplication of BR-222 road from Caucaia to Umirim	85,1 km	Caucaia, CE	Umirim, CE
		3543	Duplication of BR-116 road from Pacajus to Beberibe	60,3 km	Pacajus, CE	Beberibe, CE
		3565	Duplication of BR-226 road from Pereiro to Jaguaribe	27,1 km	Pereiro, CE	Jaguaribe, CE
		3568	Duplication of BR-226 road from Solonópole to Senador Pompeu	69,5 km	Solonópole, CE	Senador Pompeu, CE
	Implementation of express lane or BRT or RTM	0754	Implementation of Alberto Craveiro BRT in Fortaleza	3,0 km	Fortaleza, CE	Fortaleza, CE
		0830	Implementation of Dedé Brasil BRT in Fortaleza	7,0 km	Fortaleza, CE	Fortaleza, CE
		0831	Implementation of Paulino Rocha BRT in Fortaleza	2,5 km	Fortaleza, CE	Fortaleza, CE
		0833	Implementation of preferential lanes on Almirante Henrique Sabóia and Governador Raul Barbosa avenues in Fortaleza	7,0 km	Fortaleza, CE	Fortaleza, CE
		1232	Implementation of express lanes on Augusto dos Anjos, José Bastos, Senator Fernandes Távora and Expedicionários avenues in Fortaleza	27,2 km	Fortaleza, CE	Fortaleza, CE
		2798	Implementation of the Messejana - Centro Express Lane in Fortaleza	15,2 km	Fortaleza, CE	Fortaleza, CE
		2802	Implementation of BRT 1st Express Ring Road in Fortaleza	6,8 km	Fortaleza, CE	Fortaleza, CE
		2803	Implementation of BRT on Perimetal and Juscelino Kubitschek avenues in Fortaleza	23,2 km	Fortaleza, CE	Fortaleza, CE
		2804	Implementation of BRT on Coronel Carvalho and Presidente Castelo Branco avenues in Fortaleza	17,9 km	Fortaleza, CE	Fortaleza, CE

Table 86 - Project list - Ceará

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Road	Implementation of express lane or BRT or RTM	2805	Implementation of BRT on Emilio de Menezes and Vital Brasil streets in Fortaleza	6,6 km	Fortaleza, CE	Fortaleza, CE
		2807	Implementation of BRT on 13 de Maio, Vieira and Miguel Dias avenues in Fortaleza	12,3 km	Fortaleza, CE	Fortaleza, CE
		3881	Implementation of preferential bus lanes in Caucaia	20,5 km	Caucaia, CE	Caucaia, CE
	Paving of road	0936	Paving of BR-226 road in Crateús	58,0 km	Crateús, CE	Crateús, CE
		2167	Paving of BR-402 road from Granja to Marco	80,9 km	Granja, CE	Marco, CE
		2170	Paving of CE-187 road from Tauá to Campos Sales	132,8 km	Tauá, CE	Campos Sales, CE
		3566	Paving of BR-226 road from Jaguaribe to Solonópole	57,3 km	Jaguaribe, CE	Solonópole, CE
		3576	Paving of BR-437 road from Quixeré to Tabuleiro do Norte	28,9 km	Quixeré, CE	Tabuleiro do Norte, CE
		2319	Restoration of pavement on BR-403 road from Cruz to Marco	32,6 km	Cruz, CE	Marco, CE
		2494	Restoration of pavement on CE-060 road from Quixadá to Senador Pompeu	80,8 km	Quixadá, CE	Senador Pompeu, CE
	Restoration of pavement on road	2495	Restoration of pavement on CE-060 road from Maracanaú to Acarapé	45,2 km	Maracanaú, CE	Acarape, CE
		2709	Restoration of pavement on BR-122 road from Chorozinho to Solonópole	201,9 km	Chorozinho, CE	Solonópole, CE
		2710	Restoration of pavement on CE-494/BR-122 road from Crato to Santana do Cariri	23,8 km	Crato, CE	Santana do Cariri, CE
		2714	Restoration of pavement on CE-178/BR-403 road from Morrinhos to Sobral	66,4 km	Morrinhos, CE	Sobral, CE
		2715	Restoration of pavement on BR-402 road from Marco to Umirim	125,5 km	Marco, CE	Umirim, CE
	2716	Restoration of pavement on CE-085/BR-402 and BR-402 roads from Chaval to Granja	97,5 km	Chaval, CE	Granja, CE	



Table 86 - Project list - Ceará

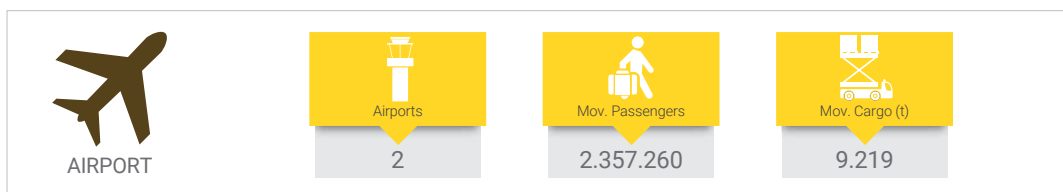
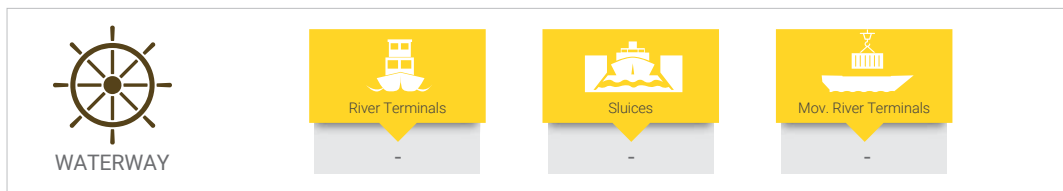
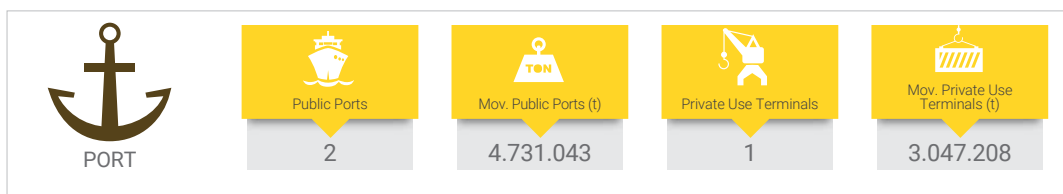
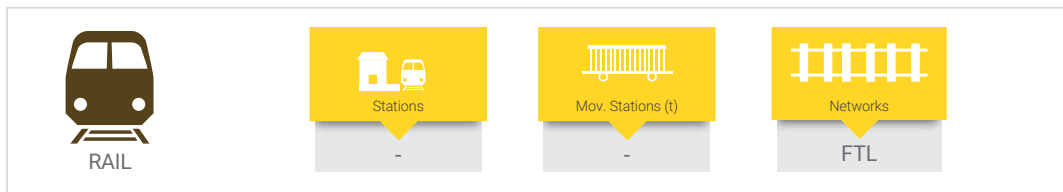
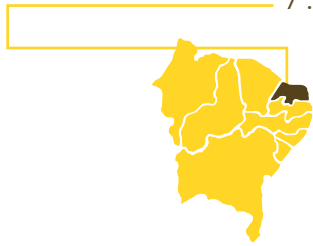
continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality, State
Road	Restoration of pavement on road	3579	Restoration of pavement on CE-138 road in Pereiro	19,1 km	Pereiro, CE	Pereiro, CE
		3580	Restoration of pavement on CE-168 in Itapipoca	22,2 km	Itapipoca, CE	Itapipoca, CE
		3585	Restoration of pavement on CE-354 from Acarape to Chorozinho	30,5 km	Acarape, CE	Chorozinho, CE
		3587	Restoration of pavement on CE-386 from Farias Brito to Crato	43,4 km	Farias Brito, CE	Crato, CE
Terminal	Station construction	0834	Construction of Padre Cícero metro station on South Line in Fortaleza	1 un	Fortaleza, CE	Fortaleza, CE
	Terminal construction	1793	Construction of rail freight terminal in Senador Pompeu	1 un	Senador Pompeu, CE	Senador Pompeu, CE
		2845	Construction of parking lot for cargo vehicles in Fortaleza Metropolitan Region	1 un	Fortaleza, CE	Fortaleza, CE

Table 87 - Minimum Investment - Ceará

Infrastructure	Category	Scale	Minimum Investment (R\$)	
Airport	Airport adjustment	5 un	572.891.217,57	
Rail	Railway construction	721,2 km	2.224.239.317,66	
	Construction of metro or urban train	12,4 km	4.473.300.216,53	
	Construction of monorail or LRT or atmospheric railway	64,7 km	484.365.190,71	
	Elimination of bottlenecks	23 un	149.166.002,71	
	Railway restoration - Urban		35,0 km	2.837.094.666,93
			1 un	66.272.191,91
Portuária	Waterway access to port	500.000,0 m³	26.165.076,13	
	Land access to port	30,6 km	332.314.241,56	
	Port area	15 un	2.445.045.726,87	
	Port construction	3 un	975.555.608,53	
Rodoviária	Road adjustment	947,0 km	1.446.435.523,74	
	Road construction	245,7 km	1.404.621.946,48	
	Urban road construction	0,9 km	593.496.007,18	
	Road duplication	410,1 km	4.420.944.850,37	
	Implementation of express lane or BRT or RTM	149,2 km	2.867.865.220,03	
	Paving of road	357,9 km	1.802.517.027,46	
	Restoration of pavement on road	788,9 km	2.597.771.813,06	
Terminal	Station construction	1 un	42.350.000,00	
	Terminal construction	2 un	81.415.694,20	
<b>Total</b>			<b>29.843.827.539,63</b>	

### 7.2.4 RIO GRANDE DO NORTE



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTL - Transnordestina Logística Railway.

Table 88 - Project list - Rio Grande do Norte

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1649	Implementation of air navigation groups at Dix-Sept Rosado Airport in Mossoró	1 un	Mossoró, RN	Mossoró, RN
Rail	Railway construction	1411	Construction of rail link from Açú to Mossoró	73,8 km	Açú, RN	Mossoró, RN
		1412	Construction of rail link from Jucurutu to Porto do Mangue	115,0 km	Jucurutu, RN	Porto do Mangue, RN
		3052	Construction of Ferrovia do Sal Railway from Mossoró to Macau	115,4 km	Mossoró, RN	Macau, RN
	Restoration of railway	1410	Restoration of Ferrovia do Sal Railway from Macau to Natal	284,6 km	Macau, RN	Natal, RN
	Railway restoration - Urban	1233	Revitalization of metropolitan train system from Ceará-Mirim to Parnamirim	56,2 km	Ceará-Mirim, RN	Parnamirim, RN
Port	Waterway access to port	0966	Deepening dredging of access channel to salt terminal and Port of Areia Branca	2.680.662,4 m³	Areia Branca, RN	Areia Branca, RN
	Port area	0630	Adjustment of berth at Port of Areia Branca	1 un	Areia Branca, RN	Areia Branca, RN
		2022	Construction of berth 4 with back-up area at Port of Natal	1 un	Natal, RN	Natal, RN
		3314	Expansion of south yard of Port of Natal	1 un	Natal, RN	Natal, RN
		3316	Expansion of north yard of Port of Natal	1 un	Natal, RN	Natal, RN
	Port construction	2024	Construction of port freight terminal at Port of Natal	1 un	Natal, RN	Natal, RN
		2025	Construction of port freight terminal at Porto do Mangue	1 un	Porto do Mangue, RN	Porto do Mangue, RN
Road	Adjustment of express lane or BRT or RTM	3638	Restoration of preferential bus lanes in Natal	27,0 km	Natal, RN	Natal, RN
	Road adjustment	2150	Construction of Gancho Flyover on BR-101 from Natal to São Gonçalo do Amarante	2,6 km	Natal, RN	São Gonçalo do Amarante, RN
		2152	Construction of flyovers on BR-101 from Natal to Parnamirim	16,9 km	Natal, RN	Parnamirim, RN

Table 88 - Project list - Rio Grande do Norte

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2567	Implementation of signs on BR-101 road from São Gonçalo do Amarante to Parnamirim	22,5 km	São Gonçalo do Amarante, RN	Parnamirim, RN
		2584	Implementation of signs on BR-226 road from Janduís to Antônio Martins	58,4 km	Janduís, RN	Antônio Martins, RN
		3448	Implementation of additional lane on BR-226 road from Triunfo Potiguar to Augusto Severo	10,0 km	Triunfo Potiguar, RN	Augusto Severo, RN
		3461	Implementation of additional lane on BR-104 road from Currais Novos to Campo Redondo	27,0 km	Currais Novos, RN	Campo Redondo, RN
		3466	Implementation of signs on BR-405 from Mossoró to Pau dos Ferros	144,5 km	Mossoró, RN	Pau dos Ferros, RN
		3468	Implementation of additional lane on BR-427 road from Currais Novos to Caicó	80,0 km	Currais Novos, RN	Caicó, RN
		3470	Implementation of signs on RN-023 from Santa Cruz to Coronel Ezequiel	32,6 km	Santa Cruz, RN	Coronel Ezequiel, RN
		3471	Implementation of signs on RN-405 from Upanema to Mossoró	20,9 km	Upanema, RN	Mossoró, RN
	Urban road adjustment	0866	Restoration of pavement on Capitão-Mor Gouveia and Jerônimo Câmara avenues in Natal	6,1 km	Natal, RN	Natal, RN
		1495	Adjustment of Engenheiro Roberto Freire avenue in Natal	4,0 km	Natal, RN	Natal, RN
	Road construction	2184	Construction of BR-104 road from Campo Redondo to Coronel Ezequiel	15,7 km	Campo Redondo, RN	Coronel Ezequiel, RN
		2185	Construction of BR-104 road from Lajes to Cerro Corá	48,7 km	Lajes, RN	Cerro Corá, RN
		2186	Construction of BR-104 road from Macau to Pedro Avelino	52,8 km	Macau, RN	Pedro Avelino, RN

Table 88 - Project list - Rio Grande do Norte

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Urban road construction	0865	Expansion of Prudente de Morais avenue from Natal to Parnamirim	4,7 km	Natal, RN	Parnamirim, RN
		0868	Construction of North and South access roads to São Gonçalo do Amarante Airport	25,0 km	Macaíba, RN	São Gonçalo do Amarante, RN
	Road duplication	0708	Duplication of BR-304 road from Tibau to Macaíba	264,6 km	Tibau, RN	Macaíba, RN
		2151	Duplication of BR-226 road from Natal to Campo Redondo	133,3 km	Natal, RN	Campo Redondo, RN
		3463	Duplication of RNT-226/BR-226 road from Currais Novos to Florânia	40,4 km	Currais Novos, RN	Florânia, RN
		3467	Duplication of BR-405 road from Rafael Fernandes to Luís Gomes	31,2 km	Rafael Fernandes, RN	Luís Gomes, RN
		1238	Duplication of Moema Tinoco/Conselheiro Tristão and Fronteiras corridors in Natal	11,2 km	Natal, RN	Natal, RN
	Paving of road	2187	Paving of BR-437 road from Mossoró to Baraúna	32,0 km	Mossoró, RN	Baraúna, RN
	Restoration of pavement on road	2483	Restoration of pavement on RN-233 road from Açú to Triunfo Potiguar	41,2 km	Açú, RN	Triunfo Potiguar, RN
		2492	Restoration of pavement RN-117 road from Antonio Martins to Alexandria	29,3 km	Antônio Martins, RN	Alexandria, RN
		2493	Restoration of pavement on RN-177 road from São Miguel to Pau dos Ferros	43,7 km	São Miguel, RN	Pau dos Ferros, RN
	Restoration of road construction	2658	Restoration of pavement on BR-405 road from Pau dos Ferros to Rafael Fernandes	16,5 km	Pau dos Ferros, RN	Rafael Fernandes, RN
		3447	Restoration of pavement on BR- 226 road from Florânia to Triunfo Potiguar	57,3 km	Florânia, RN	Triunfo Potiguar, RN
		3451	Restoration of pavement on BR- 226 road from Antonio Martins to Pau dos Ferros	52,4 km	Antônio Martins, RN	Pau dos Ferros, RN

Table 88 - Project list - Rio Grande do Norte

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of road construction	3464	Restoration of pavement on RNT-104/ BR-104 road from Pedro Avelino to Angicos	20,9 km	Pedro Avelino, RN	Angicos, RN
		3469	Restoration of pavement on BR-427 road from Caicó to Serra Negra do Norte	53,1 km	Caicó, RN	Serra Negra do Norte, RN
		3472	Restoration of pavement on RN-079 road from Alexandria to Rafael Fernandes	32,4 km	Alexandria, RN	Rafael Fernandes, RN
		3473	Restoration of pavement on RN-118 road from Macau to Itajá	70,7 km	Macau, RN	Itajá, RN
Terminal	Terminal construction	1794	Terminal construction rail freight terminal in Mossoró	1 un	Mossoró, RN	Mossoró, RN
		3413	Construction of parking lot for cargo vehicles in the Metropolitan Region of Natal	1 un	Natal, RN	Natal, RN

Note: No information found for extension of project 0966. Therefore, the project scale was estimated using the expected investment amount.

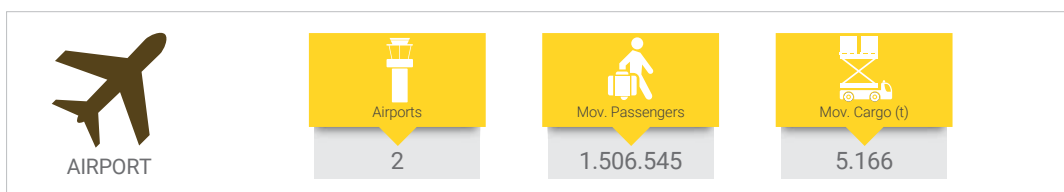
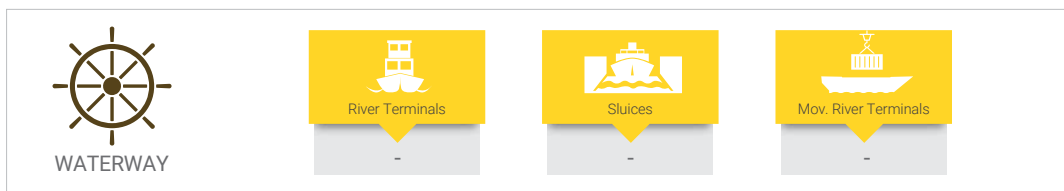
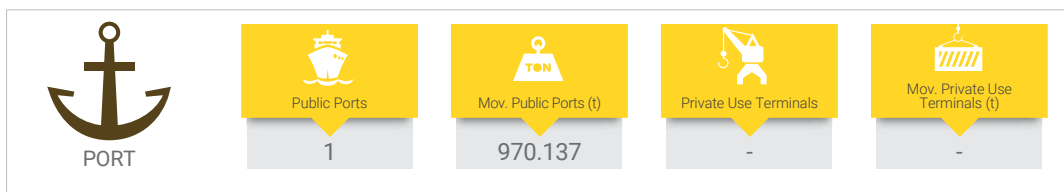
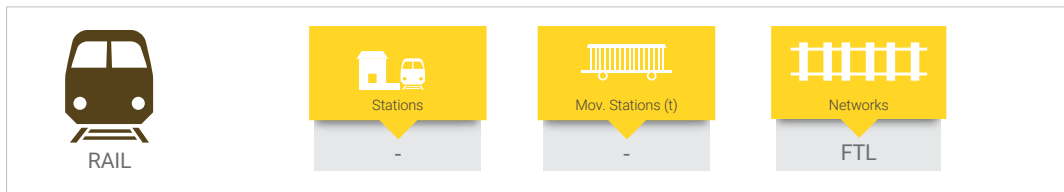
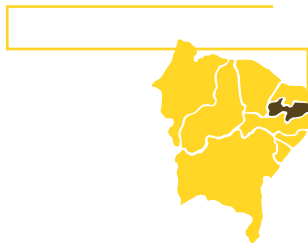
Table 89 - Minimum Investment - Rio Grande do Norte

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	1 un	231.651,33
Rail	Railway construction	304,2 km	3.003.965.724,45
	Restoration of railway	284,6 km	1.553.043.638,14
	Railway restoration - Urban	56,2 km	627.108.116,94
Port	Waterway access to port	2.680.662,4 m³	141.485.362,54
	Port area	4 un	400.685.734,70
	Port construction	2 un	622.732.609,44
Road	Adjustment of express lane or BRT or RTM	27,0 km	176.412.814,60
	Road adjustment	415,4 km	632.758.580,00
	Urban road adjustment	10,1 km	484.862.431,88
	Road construction	117,2 km	616.876.180,70
	Urban road construction	29,7 km	78.553.379,02
	Road duplication	469,5 km	5.426.751.832,09
	Duplication of urban road	11,2 km	143.287.421,53
	Paving of road	32,0 km	116.680.957,27
	Restoration of pavement on road	417,5 km	1.374.787.339,26
Terminal	Terminal construction	2 un	81.415.694,20
<b>Total</b>			<b>15.481.639.468,09</b>





## 7.2.5 PARAÍBA



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTL - Transnordestina Logística Railway.

Table 90 - Project list - Paraíba

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Airport	Airport adjustment	1606	Implementation of security system at Pedro Vieira Moreira Aerodrome in Cajazeiras	1 un	Cajazeiras, PB	Cajazeiras, PB	
		1607	Restoration of Presidente João Suassuna Airport in Campina Grande	1 un	Campina Grande, PB	Campina Grande, PB	
		1608	Expansion of Presidente Castro Pinto (João Pessoa) Airport in Bayeux	1 un	Bayeux, PB	Bayeux, PB	
		1609	Expansion of Peregrino Filho Airport in Patos	1 un	Patos, PB	Patos, PB	
		3004	Repair of runway at Presidente Castro Pinto (João Pessoa) Airport in Bayeux	1 un	Bayeux, PB	Bayeux, PB	
	Airport construction	1605	Construction of Araruna Airport	1 un	Araruna, PB	Araruna, PB	
		1610	Airport construction in Piancó	1 un	Piancó, PB	Piancó, PB	
	Rail	Elimination of bottlenecks	3201	Removal of right of way intrusions in Campina Grande	5 un	Campina Grande, PB	Campina Grande, PB
			3202	Removal of right of way intrusion in Queimadas	1 un	Queimadas, PB	Queimadas, PB
			3203	Removal of right of way intrusions in Itabaiana	2 un	Itabaiana, PB	Itabaiana, PB
3204			Removal of right of way intrusion in Santa Rita	1 un	Santa Rita, PB	Santa Rita, PB	
3273			Removal of level crossing in Triunfo	1 un	Triunfo, PB	Triunfo, PB	
3274			Removal of level crossings in São João do Rio do Peixe	2 un	São João do Rio do Peixe, PB	São João do Rio do Peixe, PB	
3275			Removal of level crossing in Sousa	1 un	Sousa, PB	Sousa, PB	
3276			Removal of level crossing in São José de Espinharas	1 un	São José de Espinharas, PB	São José de Espinharas, PB	
3277			Removal of level crossing in Cacimba de Areia	1 un	Cacimba de Areia, PB	Cacimba de Areia, PB	
3278			Eliminação de passagens em nível em Areia de Baraúnas	2 un	Areia de Baraúnas, PB	Areia de Baraúnas, PB	
3279	Eliminação de passagem em nível em Assunção	1 un	Assunção, PB	Assunção, PB			

Table 90 - Project list - Paraíba

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3280	Removal of level crossing in Juazeirinho	1 un	Juazeirinho, PB	Juazeirinho, PB
		3281	Removal of level crossing in Pocinhos	1 un	Pocinhos, PB	Pocinhos, PB
		3282	Removal of level crossing in Ingá	1 un	Ingá, PB	Ingá, PB
		3283	Removal of level crossing in Mogeiro	1 un	Mogeiro, PB	Mogeiro, PB
	Restoration of railway	1400	Restoration of rail link from Campina Grande to Cabedelo	170,0 km	Campina Grande, PB	Cabedelo, PB
	Railway restoration - Urban	3505	Restoration of metropolitan train line from Santa Rita to Cabedelo	30,0 km	Santa Rita, PB	Cabedelo, PB
Portuária	Waterway access to port	0238	Dredging of access channel and turning basin of Cabedelo Port	1.996.000,0 m³	Cabedelo, PB	Cabedelo, PB
	Land access to port	1949	Adjustment of road access to Port of Cabedelo via BR-230	26,6 km	João Pessoa, PB	Cabedelo, PB
		2974	Adjustment and restoration of internal roads of Port of Cabedelo	2,0 km	Cabedelo, PB	Cabedelo, PB
	Port area	1947	Adjustment of port area of Port of Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		1948	Adjustment of dock surrounding Port of Cabedelo	3 un	Cabedelo, PB	Cabedelo, PB
		2969	Adjustment of liquid bulk cargo terminals at Port of Cabedelo	2 un	Cabedelo, PB	Cabedelo, PB
	Port construction	1945	Construction of multiple use terminal at Port of Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		1946	Construção de terminal de passageiros no Porto de Cabedelo	1 un	Cabedelo, PB	Cabedelo, PB
		2009	Construction of deepwater port in Lucena	1 un	Lucena, PB	Lucena, PB
	Road	Road adjustment	2335	Implementation of additional lane on BR-104 road from Nova Floresta to Alcantil	130,0 km	Nova Floresta, PB
2336			Implementation of signs on PB-262/BR-110 road from Pato to Teixeira	35,6 km	Patos, PB	Teixeira, PB

Table 90 - Project list - Paraíba

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2554	Implementation of signs on BR-101 road from Santa Rita to Caaporã	47,7 km	Santa Rita, PB	Caaporã, PB
		3551	Adjustment of BR-101 road from Santa Rita Caaporã	54,9 km	Santa Rita, PB	Caaporã, PB
		3555	Implementation of additional lane on 110 road in Monteiro	10,0 km	Monteiro, PB	Monteiro, PB
		3557	Implementation of signs on BR-116 road in Cachoeira dos Índios	13,7 km	Cachoeira dos Índios, PB	Cachoeira dos Índios, PB
		3560	Implementation of additional lane on BR-361 and PB/386-BR-361 roads from Piancó to Conceição	81,0 km	Piancó, PB	Conceição, PB
		3561	Implementation of signs on BR-405 road from São João do Rio do Peixe to Marizópolis	17,7 km	São João do Rio do Peixe, PB	Marizópolis, PB
		3562	Implementation of additional lane BR -434 road from to Santarém	10,0 km	Uiraúna, PB	Santarém, PB
		3563	Implementation of signs on PB- 066/BR-408 road from Ingá to Juripiranga	53,4 km	Ingá, PB	Juripiranga, PB
		3567	Implementation of additional lane on BR-426 road from Piancó to Santana dos Garrotes	23,0 km	Piancó, PB	Santana dos Garrotes, PB
		3569	Implementation of additional lane on PB-306/ BR-426 road from Tavares to Princesa Isabel	20,0 km	Tavares, PB	Princesa Isabel, PB
	3573	Implementation of signs on PB-400 from Cajazeiras to Conceição	100,2 km	Cajazeiras, PB	Conceição, PB	
	Road construction	2177	Construction of the Northeast ramp in Campina Grande	20,0 km	Campina Grande, PB	Campina Grande, PB
		2178	Construction of PB-008 from Lucena to Mataraca	31,8 km	Lucena, PB	Mataraca, PB
		3751	Implementation of 2nd Ring Road in Campina Grande	17,0 km	Campina Grande, PB	Campina Grande, PB

Table 90 - Project list - Paraíba

continuation

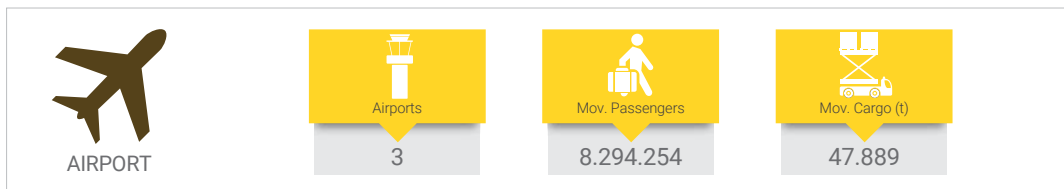
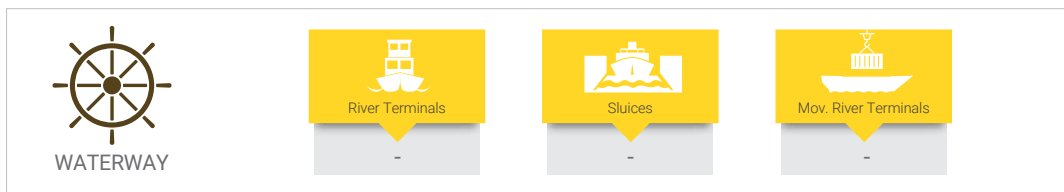
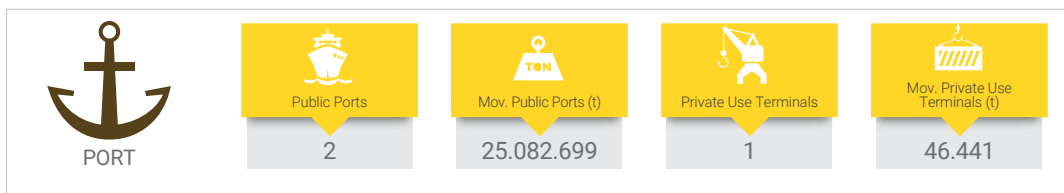
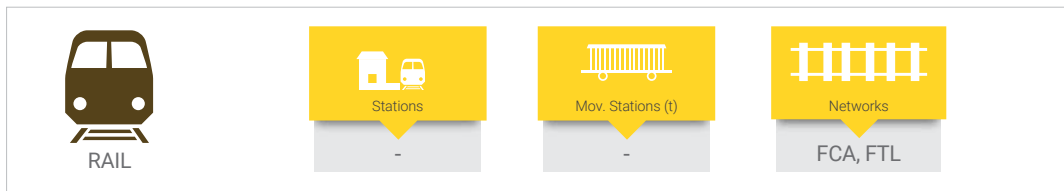
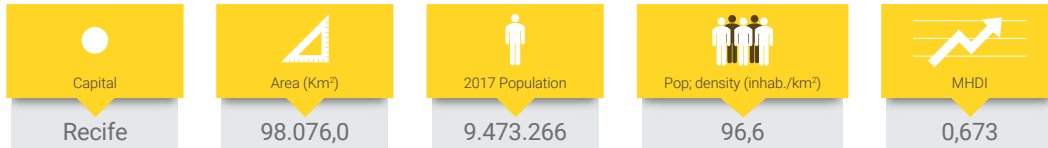
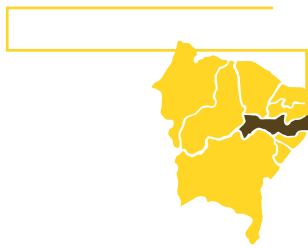
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	3558	Duplication of BR-230 road from Campina Grande to Boa Vista	31,0 km	Campina Grande, PB	Boa Vista, PB
		3559	Duplication of BR-230 road from Pocinhos to Juazeirinho	63,7 km	Pocinhos, PB	Juazeirinho, PB
	Implementation of express lane or BRT or RTM	3748	Implementation of BRTs in João Pessoa	50,3 km	João Pessoa, PB	João Pessoa, PB
	Restoration of pavement on road	3554	Restoration of pavement on PB-250/BR-110 road from Ouro Velho to Monteiro	31,2 km	Ouro Velho, PB	Monteiro, PB
		3571	Restoration of pavement on PB-228 and PB-238 from Juazeirinho to Teixeira	81,5 km	Juazeirinho, PB	Teixeira, PB
		3572	Restoration of the pavement on PB-393 from Cajazeiras to São João do Rio do Peixe	21,8 km	Cajazeiras, PB	São João do Rio do Peixe, PB

Table 91 - Minimum Investment - Paraíba

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	5 un	30.305.784,18
	Airport construction	2 un	24.254.633,58
Rail	Elimination of bottlenecks	22 un	64.806.442,36
	Restoration of railway	170,0 km	927.739.734,40
	Railway restoration - Urban	30,0 km	372.563.074,72
Port	Waterway access to port	1.996.000,0 m³	24.190.252,02
	Land access to port	28,6 km	350.337.639,27
	Port area	6 un	542.871.019,59
	Port construction	3 un	1.216.160.788,56
Road	Road adjustment	597,2 km	1.163.239.100,93
	Road construction	68,8 km	485.570.100,20
	Road duplication	94,7 km	1.129.315.661,63
	Implementation of express lane or BRT or RTM	50,3 km	250.337.245,96
	Restoration of pavement on road	134,5 km	442.895.561,99
<b>Total</b>			<b>7.024.587.039,39</b>



## 7.2.6 PERNAMBUCO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway, FTL - Transnordestina Logística Railway.

Table 92 - Project list - Pernambuco

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1529	Implementation of control tower at Gilberto Freyre (Guararapes) Airport in Recife	1 un	Recife, PE	Recife, PE
		1531	Expansion of passenger terminal at Fernando de Noronha Airport	1 un	Fernando de Noronha, PE	Fernando de Noronha, PE
		1611	Restoration of Senador Nilo Coelho Airport in Petrolina	1 un	Petrolina, PE	Petrolina, PE
		1613	Expansion of Gilberto Freyre (Guararapes) Airport in Recife	1 un	Recife, PE	Recife, PE
		2966	Repair of runway at Gilberto Freyre (Guararapes) Airport in Recife	1 un	Recife, PE	Recife, PE
	Airport construction	2963	Implementation of passenger terminal and runway and aircraft yard system at Santa Magalhães Airport in Serra Talhada	1 un	Serra Talhada, PE	Serra Talhada, PE
Waterway	Implantação de corredor de transporte aquaviário	1042	Implementation of West and North sections of urban passenger waterway transportation corridor from Olinda to Recife	13,9 km	Olinda, PE	Recife, PE
		1209	Implementation of South section of urban passenger waterway transportation corridor from Olinda to Recife	6,0 km	Recife, PE	Recife, PE
Rail	Railway construction	1371	Construction of Nova Transnordestina Railway from Salgueiro to Ipojuca	544,0 km	Salgueiro, PE	Ipojuca, PE
		1404	Construction of railway from Petrolina to Salgueiro	242,0 km	Petrolina, PE	Salgueiro, PE
	Construction of metro or urban train	1019	Construction of metro line at Norte Avenue in Recife	9,0 km	Recife, PE	Recife, PE
	Construction of monorail or LRT or atmospheric railway	3490	Construction of LRT line in Petrolina	4,8 km	Petrolina, PE	Petrolina, PE
	Elimination of bottlenecks	3205	Removal of right of way intrusion in Cabo de Santo Agostinho	1 un	Cabo de Santo Agostinho, PE	Cabo de Santo Agostinho, PE



Table 92 - Project list - Pernambuco

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3206	Removal of right of way intrusions in Camaragibe	2 un	Camaragibe, PE	Camaragibe, PE
		3207	Removal of right of way intrusion in Aliança	1 un	Aliança, PE	Aliança, PE
		3246	Removal of level crossing in Carpina	1 un	Carpina, PE	Carpina, PE
		3247	Removal of level crossing in São Lourenço da Mata	1 un	São Lourenço da Mata, PE	São Lourenço da Mata, PE
		3248	Removal of level crossing in Camaragibe	1 un	Camaragibe, PE	Camaragibe, PE
		3333	Removal of right of way intrusions in São Lourenço da Mata	2 un	São Lourenço da Mata, PE	São Lourenço da Mata, PE
	Restoration of railway	1405	Restoration of passenger train railway from Recife to Caruaru	139,0 km	Recife, PE	Caruaru, PE
Hidroviária	Waterway adjustment	0008-INT	Adjustment of São Francisco River waterway from Pirapora to Juazeiro	1.372,0 km	Pirapora, MG	Juazeiro, BA
	Cargo riverboat	1301-INT	Construction of Pedra Branca sluice on São Francisco River waterway	1 un	Orocó, PE	Curaçá, BA
		1303-INT	Construction of Riacho Seco sluice on the São Francisco River waterway	1 un	Santa Maria da Boa Vista, PE	Curaçá, BA
Port	Waterway access to port	1988	Deepening of external channel of Port of Suape in Ipojuca via dredging	4.764.000,0 m³	Ipojuca, PE	Ipojuca, PE
		1989	Dredging of berths 6 and 7 at Port of Suape in Ipojuca	4.423.758,7 m³	Ipojuca, PE	Ipojuca, PE
	Land access to port	1983	Construction of rail access to Port of Suape in Ipojuca	13,4 km	Cabo de Santo Agostinho, PE	Ipojuca, PE
		3327	Adjustment and restoration of internal roads of Port of Recife	0,5 km	Recife, PE	Recife, PE
	Port area	0198	Expansion of Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1984	Construction of berth for container handling at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		2053	Construction of docks surrounding berths 0 and 1 at Port of Recife	2 un	Recife, PE	Recife, PE

Table 92 - Project list - Pernambuco

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2054	Adjustment of berths 7 to 16 at Port of Recife	10 un	Recife, PE	Recife, PE
		2055	Adjustment of berths 2 to 6 at Port of Recife	5 un	Recife, PE	Recife, PE
		2952	Adjustment of vehicle terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		2953	Implementation of VTMS at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
	3326	Adjustment of mooring structure for berths 7 to 10 at Port of Recife	4 un	Recife, PE	Recife, PE	
	Port construction	1985	Terminal construction multiple use terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1986	Terminal construction Road container terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
		1987	Terminal construction of dry bulk cargo terminal at Port of Suape in Ipojuca	1 un	Ipojuca, PE	Ipojuca, PE
	Road	Road adjustment	0770	Implementation of additional lane on PE-337 / BR-426 road from Triunfo to Flores	43,0 km	Triunfo, PE
0771			Implementation of signs on PE-360 from Ibimirim to Floresta	99,2 km	Ibimirim, PE	Floresta, PE
2338			Implementation of additional lane on PE-275/BR-110 road from Brejinho to São José do Egito	10,0 km	Brejinho, PE	São José do Egito, PE
2339			Implementation of additional lane on BR-232 road from Flores to Salgueiro	97,0 km	Flores, PE	Salgueiro, PE
2341			Implementation of additional lane on BR-423 road from Garanhuns to Itaíba	79,0 km	Garanhuns, PE	Itaíba, PE
2342			Implementation of additional lane on BR-424 road from Arcoverde to Correntes	105,0 km	Arcoverde, PE	Correntes, PE
2556			Implementation of additional lane on BR-104 road from Caruaru to Quipapá	69,0 km	Caruaru, PE	Quipapá, PE

Table 92 - Project list - Pernambuco

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2557	Implementation of signs on BR-232 road from Recife to Caruaru	136,3 km	Recife, PE	Caruaru, PE
		3515	Implementation of signs on BR-101 road from Goiana to Igarassu	41,4 km	Goiana, PE	Igarassu, PE
		3516	Implementation of signs on BR-101 road from Cabo de Santo Agostinho to Palmares	88,7 km	Cabo de Santo Agostinho, PE	Palmares, PE
		3524	Implementation of additional lane on PE-265/BR-110 road in Sertânia	17,0 km	Sertânia, PE	Sertânia, PE
		3533	Implementation of signs on BR-232 road from Sertânia to Flores	76,9 km	Sertânia, PE	Flores, PE
		3536	Implementation of additional lane on BR-407 road from Afrânio to Petrolina	60,0 km	Afrânio, PE	Petrolina, PE
		3538	Implementation of additional lane on BR-408 road from Timbaúba to Carpina	30,0 km	Timbaúba, PE	Carpina, PE
		3539	Implementation of signs on BR-408 road from Carpina to boatão dos Guararapes	41,1 km	Carpina, PE	Jaboatão dos Guararapes, PE
		3542	Implementation of signs on PE-024, PE-028 and PE- 060 from Cabo de Santo Agostinho to Barreiros	83,1 km	Cabo de Santo Agostinho, PE	Barreiros, PE
		3544	Implementation of signs on PE-126 from Palmares to Quipapá	54,2 km	Palmares, PE	Quipapá, PE
	Urban road adjustment	3548	Implementation of signs on PE-090 from Carpina to Vertentes	93,4 km	Carpina, PE	Vertentes, PE
		1255	Rehabilitation of Beira Rio Avenue in Recife	0,9 km	Recife, PE	Recife, PE
		3884	Adjustment of road paving in Jaboaão dos Guararapes	3,2 km	Jaboatão dos Guararapes, PE	Jaboatão dos Guararapes, PE
	Road construction	3514	Construction of Recife Metropolitan Arch on BR-101	76,0 km	Itapissuma, PE	Cabo de Santo Agostinho, PE

Table 92 - Project list - Pernambuco

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Urban road construction	2153	Construction of North Metropolitan Highway from Olinda to Paulista	6,1 km	Olinda, PE	Paulista, PE	
		2179	Construction of the North Ring Road from Recife to Olinda	10,0 km	Recife, PE	Olinda, PE	
	Road duplication	0061	Duplication of BR-116 road from Salgueiro to Belém de São Francisco	93,2 km	Salgueiro, PE	Belém de São Francisco, PE	
		0710	Duplication of BR-232 road from São Caitano to Sertânia	127,6 km	São Caitano, PE	Sertânia, PE	
		0711	Duplication of BR-423 road from São Caitano to Garanhuns	80,3 km	São Caitano, PE	Garanhuns, PE	
		2337	Duplication of BR-104 road from Taquaritinga do Norte to Caruaru	51,4 km	Taquaritinga do Norte, PE	Caruaru, PE	
		2580	Duplication of BR-316 road from Cabrobó to Floresta	95,7 km	Cabrobó, PE	Floresta, PE	
		3520	Duplication of BR-104 road in Taquaritinga do Norte	19,8 km	Taquaritinga do Norte, PE	Taquaritinga do Norte, PE	
		3529	Duplication of PE-555/BR-122 road in Lagoa Grande	34,5 km	Lagoa Grande, PE	Lagoa Grande, PE	
		3531	Duplication of BR-122 and BR-428 roads from Cabrobó to Petrolina	183,8 km	Cabrobó, PE	Petrolina, PE	
		3534	Duplication of BR-232 road from Salgueiro to Parnamirim	49,6 km	Salgueiro, PE	Parnamirim, PE	
		3535	Duplication of PE-647/BR-235 road in Petrolina	21,7 km	Petrolina, PE	Petrolina, PE	
		Implementation of express lane or BRT or RTM	0848	Implementation of East/West Freeway Corridor from Camaragibe to Recife	12,0 km	Camaragibe, PE	Recife, PE
			0849	Implementation of North/South Freeway Corridor from Recife to Igarassu	33,2 km	Igarassu, PE	Recife, PE
			0850	Implementation of Cidade da Copa branch of East/West Corridor from São Lourenço da Mata to Camaragibe	6,3 km	São Lourenço da Mata, PE	Camaragibe, PE

Table 92 - Project list - Pernambuco

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1037	Implementation of Beltway Corridor II from Olinda to Recife	10,0 km	Olinda, PE	Recife, PE
		1038	Implementation of Beltway Corridor III in Recife	16,0 km	Recife, PE	Recife, PE
		1039	Implementation of the South Radial Corridor in Recife	6,0 km	Recife, PE	Recife, PE
		1210	Implementation of BRT at Miguel Arraes Avenue North in Recife	8,9 km	Recife, PE	Recife, PE
		3883	Implementation of Beltway Corridor IV from Abreu e Lima to Jaboatão dos Guararapes	30,0 km	Abreu e Lima, PE	Jaboatão dos Guararapes, PE
		3907	Implementation of BRT at Agamenon Magalhães Avenue in Recife	4,7 km	Recife, PE	Recife, PE
	Paving of road	2189	Paving of BR-316 road in Inajá	23,8 km	Inajá, PE	Inajá, PE
		2455	Paving of BR-110 from Ibimirim to Petrolândia	71,6 km	Ibimirim, PE	Petrolândia, PE
	Restoration of pavement on road	0772	Restoration of pavement on PE-096 from Barreiros to Palmares	49,0 km	Barreiros, PE	Palmares, PE
		2476	Restoration of pavement on PE-177 from Quipapá to Garanhuns	53,4 km	Quipapá, PE	Garanhuns, PE
		2711	Restoration of pavement on PE-265 / BR-110 in Sertânia	31,7 km	Sertânia, PE	Sertânia, PE
		2712	Restoration of pavement on PE-275/BR-110 and PE-275 from Sertânia to São José do Egito	79,6 km	Sertânia, PE	São José do Egito, PE
		3508	Restoration of pavement on Recife Bypass on BR-101	40,9 km	Igarassu, PE	Jaboatão dos Guararapes, PE
		3528	Restoration of pavement on PE-585/BR-122, PE-545/ BR-122 and PE-604/BR-122 roads from Exu to Lagoa Grande	212,8 km	Exu, PE	Lagoa Grande, PE
		3532	Restoration of pavement on BR-316 road from Floresta to Petrolândia	65,0 km	Floresta, PE	Petrolândia, PE

Table 92 - Project list - Pernambuco

continuation

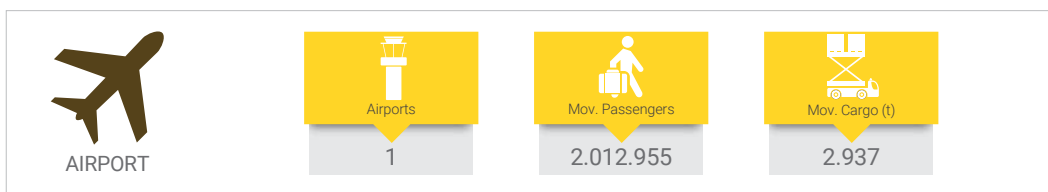
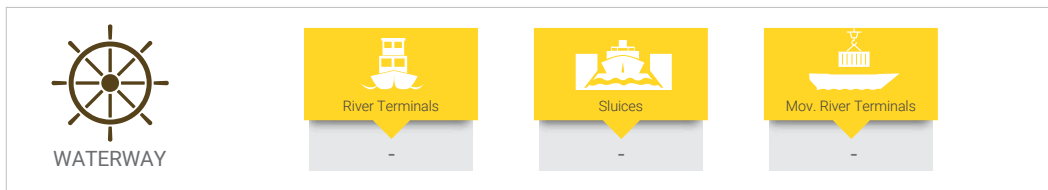
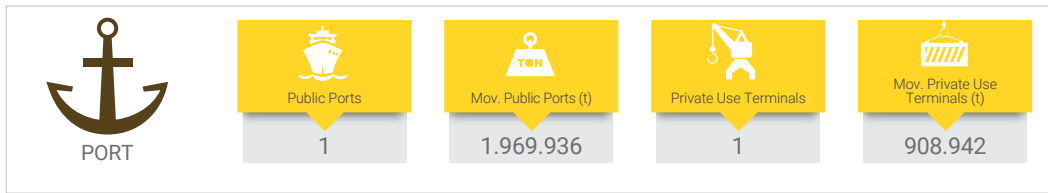
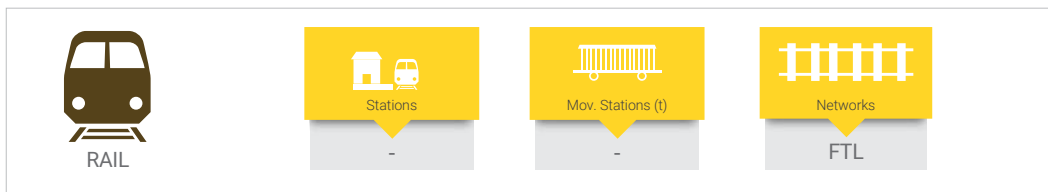
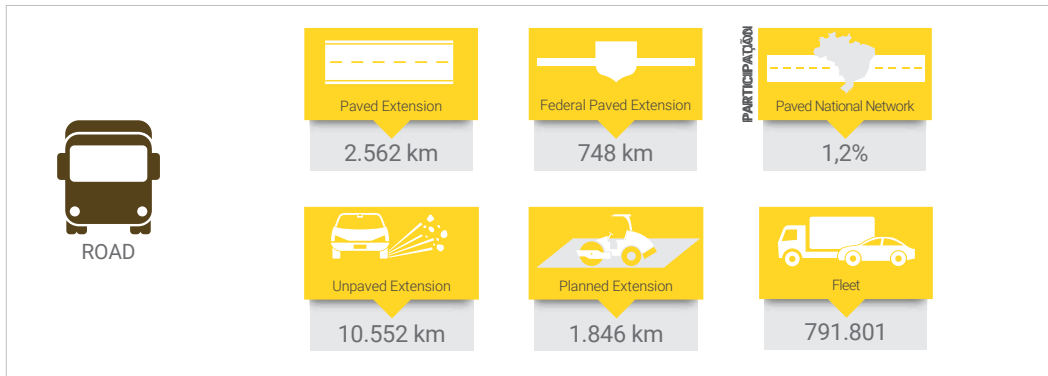
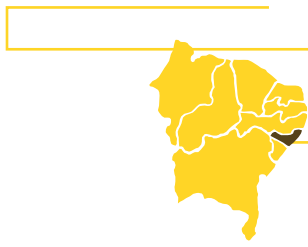
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3537	Restoration of pavement on PE-082/BR-408 road from Itambé to Timbaúba	20,2 km	Itambé, PE	Timbaúba, PE
		3547	Restoration of pavement on PE-130 road from Taquaritinga do Norte to Vertentes	18,7 km	Taquaritinga do Norte, PE	Vertentes, PE
Terminal	Terminal adjustment	0432	Expansion of intermodal cargo terminal in Petrolina	1 un	Petrolina, PE	Petrolina, PE
	Terminal construction	1783	Terminal construction rail freight terminal in Salgueiro	1 un	Salgueiro, PE	Salgueiro, PE
		2840	Construction of parking lot for cargo vehicles in the Metropolitan Region of Recife	1 un	Recife, PE	Recife, PE

Note: No information found for extension of project 1989. Therefore, the project scale was estimated using the expected investment amount.

Table 93 - Minimum Investment - Pernambuco

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	5 un	169.496.275,08
	Airport construction	1 un	26.631.621,91
Waterway	Implementation of waterway transportation corridor	19,9 km	540.875.978,84
Rail	Railway construction	786,0 km	5.363.771.823,67
	Construction of metro or urban train	9,0 km	7.197.688.176,19
	Construction of monorail or LRT or atmospheric railway	4,8 km	247.245.156,77
	Elimination of bottlenecks	9 un	34.876.494,12
	Restoration of railway	139,0 km	144.838.308,99
Waterway	Waterway adjustment	1.372,0 km	1.384.080.185,92
	Cargo riverboat	2 un	305.942.696,12
Portuária	Waterway access to port	9.187.758,7 m³	646.276.121,92
	Land access to port	13,9 km	103.567.346,49
	Port area	25 un	663.428.028,34
	Port construction	3 un	2.480.449.802,42
Rodoviária	Road adjustment	1.224,3 km	1.794.375.612,61
	Urban road adjustment	4,1 km	128.957.657,62
	Road construction	76,0 km	486.659.102,89
	Urban road construction	16,1 km	730.381.973,19
	Road duplication	757,6 km	8.210.667.104,81
	Implementation of express lane or BRT or RTM	127,1 km	2.611.634.328,66
	Paving of road	95,4 km	559.935.680,82
	Restoration of pavement on road	571,3 km	2.011.334.968,42
Terminal	Terminal adjustment	1 un	29.353.592,27
	Terminal construction	2 un	81.415.694,20
<b>Total</b>			<b>35.953.883.732,27</b>

## 7.2.7 ALAGOAS



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTL - Transnordestina Logística Railway.



Table 94 - Project list - Alagoas

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Aeroportuária	Airport adjustment	1504	Expansion of runway and aircraft yard system at Freitas Melro Airport in Penedo	1 un	Penedo, AL	Penedo, AL
		1542	Expansion of Arapiraca Airport	1 un	Arapiraca, AL	Arapiraca, AL
	Airport construction	1543	Construction of new passenger terminal and expansion of aircraft yard at Zumbi dos Palmares (Maceió) Airport in Rio Largo	1 un	Rio Largo, AL	Rio Largo, AL
		1544	Construction of Maragogi Airport	1 un	Maragogi, AL	Maragogi, AL
Rail	Construction of monorail or LRT or atmospheric railway	3484	Construction of LRT line from Rio Largo to Maceió	20,1 km	Rio Largo, AL	Maceió, AL
		3968	Construction of LRT line in Maceió	3,7 km	Maceió, AL	Maceió, AL
Waterway	Waterway adjustment	2934-INT	Dredging of São Francisco River waterway from Penedo to Neópolis and from Pão de Açúcar to Porto da Folha	3,5 km	Penedo, AL	Porto da Folha, SE
Port	Waterway access to port	0149	Dredging of access channel, turning basin and berths at Port of Maceió	1.100.000,0 m³	Maceió, AL	Maceió, AL
	Land access to port	2017	Restoration of the rail route inside Port of Maceió	1,0 km	Maceió, AL	Maceió, AL
		2910	Paving of internal roads at Port of Maceió	1,1 km	Maceió, AL	Maceió, AL
	Port area	2014	Implementation of new equipment at Port of Maceió	1 un	Maceió, AL	Maceió, AL
		2015	Adjustment of mole at Port of Maceió	1 un	Maceió, AL	Maceió, AL
		2016	Adjustment of berths at Port of Maceió	4 un	Maceió, AL	Maceió, AL
	Port construction	1958	Construction of Port of Coruripe	1 un	Coruripe, AL	Coruripe, AL
		2909	Construction of passenger terminal at Port of Maceió	1 un	Maceió, AL	Maceió, AL

Table 94 - Project list - Alagoas

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2316	Implementation of additional lane on BR-423 from Canapi to Ouro Branco	26,0 km	Ouro Branco, AL	Canapi, AL
		3422	Implementation of signs on BR-104 from Rio Largo to Maceió	15,5 km	Rio Largo, AL	Maceió, AL
		3426	Implementation of additional lane on BR-316 from Canapi to Pilar	152,7 km	Canapi, AL	Pilar, AL
		3427	Implementation of signs on BR-316 from Pilar to Maceió	32,4 km	Pilar, AL	Maceió, AL
		3428	Implementation of additional lane on BR-416 from Novo Lino to São José da Laje	28,0 km	Novo Lino, AL	São José da Laje, AL
		3431	Implementation of signs on BR-423 from Delmiro Gouveia to Canapi	74,6 km	Canapi, AL	Delmiro Gouveia, AL
		3432	Implementation of signs on BR-424 from Satuba to Marechal Deodoro	16,3 km	Satuba, AL	Marechal Deodoro, AL
	Road construction	3439	Construction of flyover between BR-104 and BR-316 in Maceió	1,6 km	Maceió, AL	Maceió, AL
		2175	Construction of BR-424 from Chã Preta to Atalaia	50,8 km	Chã Preta, AL	Atalaia, AL
	Road duplication	2176	Construction of AL-225 from Piranhas to São Brás	127,0 km	Piranhas, AL	São Brás, AL
		0518	Duplication of BR-101 from Porto Real do Colégio to Novo Lino	254,7 km	Novo Lino, AL	Porto Real do Colégio, AL
	Paving of road	2581	Duplication of BR-104 from São José da Laje to Messias	75,1 km	São José da Laje, AL	Messias, AL
		2174	Paving of BR-316 road from Mata Grande to Canapi	49,0 km	Mata Grande, AL	Canapi, AL
	Restoration of pavement on road	3423	Restoration of pavement on BR-104 road in Maceió	11,2 km	Maceió, AL	Maceió, AL

Table 94 - Project list - Alagoas

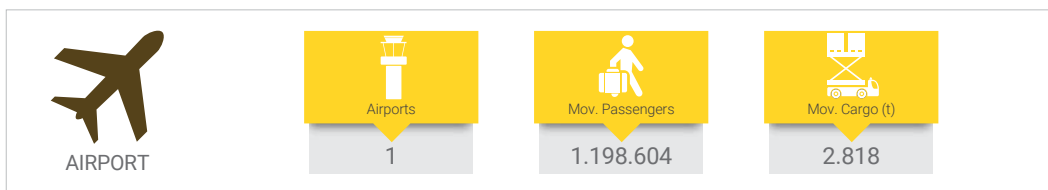
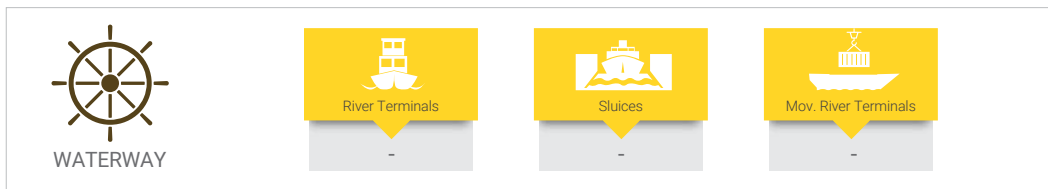
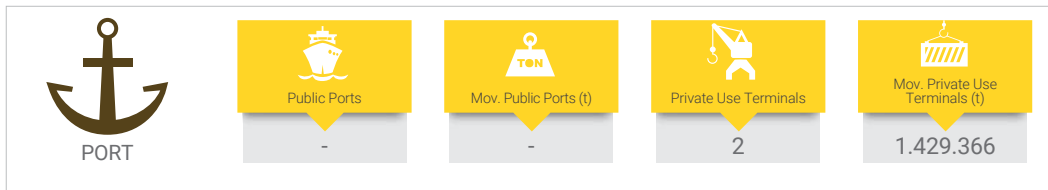
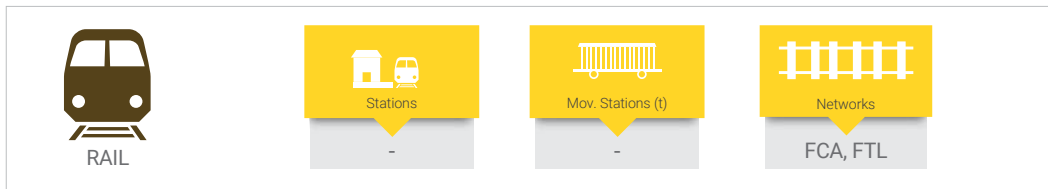
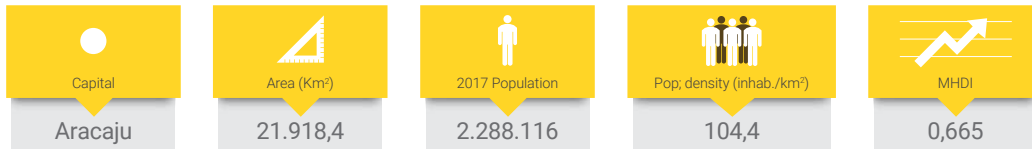
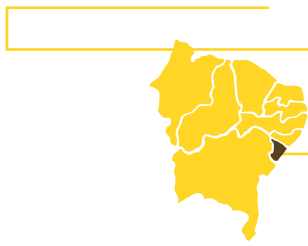
continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	0331	Construction of waterway cargo terminal in Belo Monte	1 un	Belo Monte, AL	Belo Monte, AL
		0333	Construction of intermodal cargo terminal in Porto Real do Colégio	1 un	Porto Real do Colégio, AL	Porto Real do Colégio, AL
		3415	Construction of parking lot for cargo vehicles in the Maceió Metropolitan Region	1 un	Maceió, AL	Maceió, AL

Table 95 - Minimum Investment - Alagoas

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	50.453.616,05
	Airport construction	2 un	676.786.557,97
Rail	Construction of monorail or LRT or atmospheric railway	23,8 km	1.522.174.288,77
Waterway	Waterway adjustment	3,5 km	11.907.412,00
Port	Waterway access to port	1.100.000,0 m³	42.284.871,49
	Land access to port	2,1 km	115.713.698,11
	Port area	6 un	132.593.074,96
	Port construction	2 un	8.004.440.228,92
Road	Road adjustment	347,1 km	821.540.406,30
	Road construction	177,8 km	833.179.440,83
	Road duplication	329,8 km	2.038.771.793,46
	Paving of road	49,0 km	31.259.828,92
	Restoration of pavement on road	11,2 km	36.880.522,63
Terminal	Terminal construction	3 un	123.880.718,50
<b>Total</b>			<b>14.441.866.458,91</b>

## 7.2.8 SERGIPE



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway, FTL - Transnordestina Logística Railway.

Table 96 - Project list - Sergipe

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1499	Expansion of runway at Santa Maria Airport in Aracaju	1 un	Aracaju, SE	Aracaju, SE
		2996	Expansion of Santa Maria Airport in Aracaju	1 un	Aracaju, SE	Aracaju, SE
	Airport construction	1624	Construction of Canindé de São Francisco Airport	1 un	Canindé de São Francisco, SE	Canindé de São Francisco, SE
Rail	Restoration of railway	1433	Recuperação de ferrovia para operação de trem de passageiros de São Cristóvão a Laranjeiras	40,0 km	São Cristóvão, SE	Laranjeiras, SE
Waterway	Waterway adjustment	2934-INT	Dredging of São Francisco River waterway from Penedo to Neópolis and from Pão de Açúcar to Porto da Folha	3,5 km	Penedo, AL	Porto da Folha, SE
Road	Road adjustment	2573	Implementation of signs on BR-235 from Aracaju to Nossa Senhora do Socorro	4,5 km	Aracaju, SE	Nossa Senhora do Socorro, SE
		3424	Implementation of signs on BR-235 from Itabaiana to Frei Paulo	32,3 km	Itabaiana, SE	Frei Paulo, SE
		3425	Implementation of additional lane on BR-235 road from Frei Paulo to Carira	19,0 km	Frei Paulo, SE	Carira, SE
		3429	Implementation of signs on BR-101 from Laranjeiras to Itaporanga d'Ajuda	36,9 km	Laranjeiras, SE	Itaporanga d'Ajuda, SE
		3438	Implementation of signs on SE-226 from Barra dos Coqueiros to Maruim	20,5 km	Barra dos Coqueiros, SE	Maruim, SE
		3440	Implementation of signs on SE-270 from Lagarto to Simão Dias	42,2 km	Lagarto, SE	Simão Dias, SE
		3442	Implementation of signs on SE-318 from Estância to Indiaroba	38,0 km	Estância, SE	Indiaroba, SE
	Road duplication	0097	Duplication of BR-101 from Propriá to Laranjeiras	77,4 km	Propriá, SE	Laranjeiras, SE
		2212	Duplicação da rodovia BR-235 de Nossa Senhora do Socorro a Itabaiana	44,0 km	Nossa Senhora do Socorro, SE	Itabaiana, SE
		3430	Duplicação da rodovia BR-101 de Estância a Cristinápolis	52,4 km	Estância, SE	Cristinápolis, SE

Table 96 - Project list - Sergipe

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road duplication	3433	Duplication of SE-270/ BR-349 road from Itaporanga d'Ajuda to Lagarto	20,9 km	Itaporanga d'Ajuda, SE	Lagarto, SE	
		3434	Duplication of SE-170/BR-349 road from Riachão do Dantas to Tobias Barreto	33,6 km	Riachão do Dantas, SE	Tobias Barreto, SE	
	Implementation of express lane or BRT or RTM	0757	Implementation of bus lanes in Aracaju	-	Aracaju, SE	Aracaju, SE	
		3649	Implementation of Gasoduto/Rio de Janeiro and João Rodrigues/ Euclides Figueiredo corridors in Aracaju	5,5 km	Aracaju, SE	Aracaju, SE	
	Restoration of pavement on road	3435	Restoration of pavement on SE-170 from Moita Bonita to Riachão do Dantas	66,5 km	Moita Bonita, SE	Riachão do Dantas, SE	
		3436	Restoration of pavement on SE-210 from Laranjeiras to Moita Bonita	34,1 km	Laranjeiras, SE	Moita Bonita, SE	
		3437	Restoration of pavement of SE-220 road from Santa Luzia do Itanhy to Riachão do Dantas	36,1 km	Santa Luzia do Itanhy, SE	Riachão do Dantas, SE	
		3441	Restoration of pavement on SE-302 from Frei Paulo to Simão Dias	33,3 km	Frei Paulo, SE	Simão Dias, SE	
	Terminal	Terminal construction	0509	Construction of intermodal cargo terminal in Laranjeiras	1 un	Laranjeiras, SE	Laranjeiras, SE
			3417	Construction of parking lot for cargo vehicles in Aracaju Metropolitan Region	1 un	Aracaju, SE	Aracaju, SE

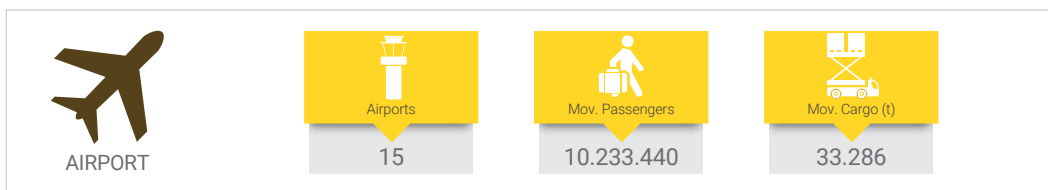
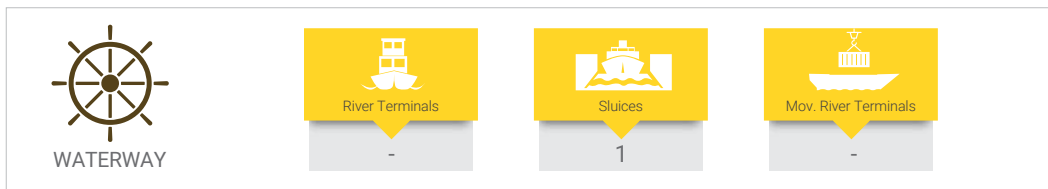
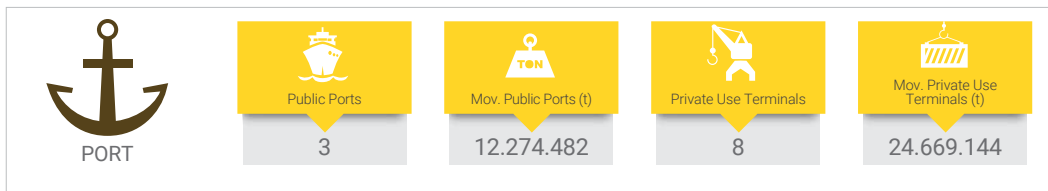
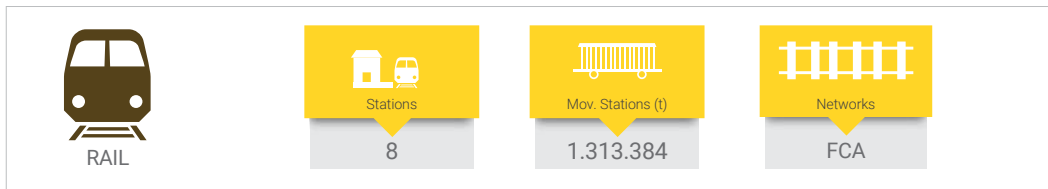
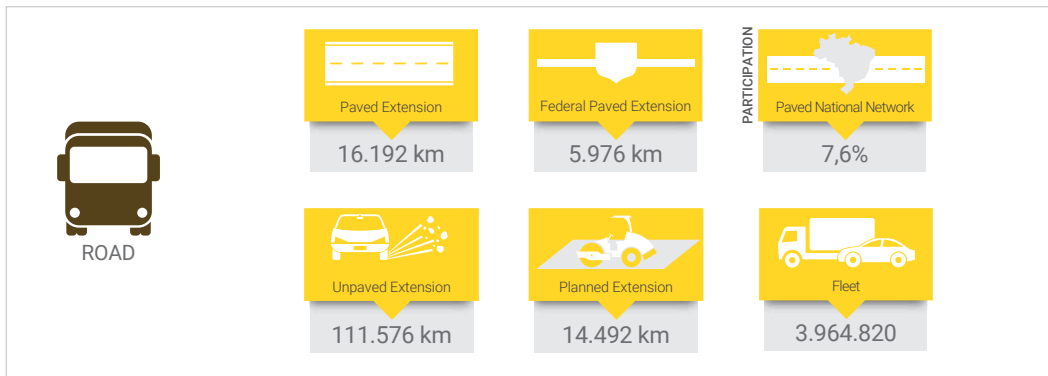
Note: No information found for extension of project 0757.

Table 97 - Minimum Investment - Sergipe

Infraestrutura	Categoria	Dimensão	Investimento Mínimo (R\$)
Airport	Airport adjustment	2 un	175.392.081,54
	Airport construction	1 un	20.212.194,65
Rail	Restoration of railway	40,0 km	83.371.989,35
Waterway	Waterway adjustment	3,5 km	11.907.412,00
Road	Road adjustment	193,4 km	70.835.540,71
	Road duplication	228,3 km	2.392.619.860,27
	Implementation of express lane or BRT or RTM	5,5 km	187.856.037,41
	Restoration of pavement on road	170,0 km	559.793.647,13
Terminal	Terminal construction	2 un	74.440.359,25
<b>Total</b>			<b>3.576.429.122,31</b>



## 7.2.9 BAHIA



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway.



Table 98 - Project list - Bahia

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1501	Expansion of Barreiras Airport	1 un	Barreiras, BA	Barreiras, BA
		1511	Expansion and restoration of passenger terminal at Deputado Luiz Eduardo Magalhães Airport in Salvador	1 un	Salvador, BA	Salvador, BA
		1553	Expansion of Porto Seguro Airport	1 un	Porto Seguro, BA	Porto Seguro, BA
	Airport construction	1508	Construction of new airport in Ilhéu	1 un	Ilhéus, BA	Ilhéus, BA
		2911	Construction of passenger terminal at Pedro Otacílio Figueiredo Airport in Vitória da Conquista	1 un	Vitória da Conquista, BA	Vitória da Conquista, BA
		3372	Implementation of provisional operations module at Jorge Amado Airport in Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		Rail	Railway construction	0001	Construction of Camaçari Rail Bypass	18,0 km
0559	Construction of São Félix Rail Bypass			18,0 km	São Félix, BA	Cachoeira, BA
1369	Construction of Northern Coastal Railway from Teixeira de Freitas to Mucuri			107,0 km	Teixeira de Freitas, BA	Mucuri, BA
1377	Construction of West-East Integration Railway from Ilhéus to Barreiras			1.022,0 km	Ilhéus, BA	Barreiras, BA
1378	Construction of West-East Integration Railway from Barreiras to Luís Eduardo Magalhães			109,4 km	Barreiras, BA	Luís Eduardo Magalhães, BA
1393	Construction of rail link from Feira de Santana to Conceição da Feira			30,0 km	Feira de Santana, BA	Conceição da Feira, BA
1468	Construction of rail access to São Francisco River water			7,0 km	Juazeiro, BA	Juazeiro, BA
1728	Construction of Santo Amaro Rail Bypass			10,4 km	Santo Amaro, BA	Santo Amaro, BA
2998	Construction of Candeias Rail Bypass			7,7 km	Candeias, BA	Candeias, BA
3059	Construction of branch line from Candeias to Camaçari			18,0 km	Candeias, BA	Camaçari, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Construction of metro or urban train	0717	Expansion of Line 1 metro extension in Salvador	5,5 km	Salvador, BA	Salvador, BA	
		3325	Expansion of Line 2 metro extension from Salvador to Lauro de Freitas	3,0 km	Salvador, BA	Lauro de Freitas, BA	
	Construction of monorail or LRT or atmospheric railway	1222	Construction of LRT from the outskirts of Salvador to Simões Filho	19,9 km	Salvador, BA	Simões Filho, BA	
		2997	Removal of level crossing in Simões Filho	1 un	Simões Filho, BA	Simões Filho, BA	
		3085	Removal of right of way intrusion in Salvador	1 un	Salvador, BA	Salvador, BA	
		3086	Removal of right of way intrusion in Iaçú	1 un	Iaçú, BA	Iaçú, BA	
		3087	Removal of right of way intrusions in Simões Filho	2 un	Simões Filho, BA	Simões Filho, BA	
		Elimination of bottlenecks	3284	Removal of level crossings in Brumado	3 un	Brumado, BA	Brumado, BA
			3285	Removal of level crossings in Iaçú	3 un	Iaçú, BA	Iaçú, BA
	3286		Removal of level crossing in Itatim	1 un	Itatim, BA	Itatim, BA	
	3287		Removal of level crossings in Castro Alves	3 un	Castro Alves, BA	Castro Alves, BA	
	3288	Removal of level crossing in São Sebastião do Passé	1 un	São Sebastião do Passé, BA	São Sebastião do Passé, BA		
	Restoration of railway	0041	Restoration of Linha Centro railway from Candeias to Juazeiro	600,0 km	Candeias, BA	Juazeiro, BA	
		1394	Restoration of passenger train railway from Conceição da Feira to Alagoinhas	238,0 km	Conceição da Feira, BA	Alagoinhas, BA	
	Waterway	Waterway adjustment	1348	Adjustment of Paraguaçu River waterway from Itaeté to Salinas da Margarida	340,0 km	Itaeté, BA	Salinas da Margarida, BA
2925			Adjustment of Rio Grande waterway from Barreiras to Barra	360,0 km	Barreiras, BA	Barra, BA	
2926			Adjustment of Corrente River waterway from Santa Maria da Vitória to Bom Jesus da Lapa	110,0 km	Santa Maria da Vitória, BA	Bom Jesus da Lapa, BA	
0008-INT			Adjustment of São Francisco River waterway from Pirapora to Juazeiro	1.372,0 km	Pirapora, MG	Juazeiro, BA	

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway		2929	Construction of waiting garages at Sobradinho sluice on the São Francisco River waterway	2 un	Sobradinho, BA	Casa Nova, BA
	Cargo riverboat	1301-INT	Construction of Pedra Branca sluice on São Francisco River waterway	1 un	Orocó, PE	Curaçá, BA
		1303-INT	Construction of Riacho Seco sluice on the São Francisco River waterway	1 un	Santa Maria da Boa Vista, PE	Curaçá, BA
Port	Waterway access to port	0053	Deepening of Port of Ilhéus via dredging	2.600.000,0 m <sup>3</sup>	Ilhéus, BA	Ilhéus, BA
		1957	Rock removal at south berth of Liquid Bulk Cargo Terminal at Port of Aracaju in Candeias	526.779,2 m <sup>3</sup>	Candeias, BA	Candeias, BA
		3043	Deepening of Dry Bulk Cargo Terminal I and Liquid Bulk Cargo Terminal at Port of Aratu in Candeias via dredging	115.026,3 m <sup>3</sup>	Candeias, BA	Candeias, BA
	Land access to port	0040	Construction of rail access to Port of Dias Branco in Salvador	7,5 km	Simões Filho, BA	Salvador, BA
		1953	Adjustment of road access to Port of Aratu in Candeias via BA-524	9,0 km	Candeias, BA	Candeias, BA
		1966	Construction of road and rail access to Porto Sul in Ilhéus	43,5 km	Ilhéus, BA	Ilhéus, BA
	Port area	2082	Restoration of rail access to Port of Salvador	2,0 km	Salvador, BA	Salvador, BA
		3065	Adjustment and restoration of internal roads of Port of Salvador	4,8 km	Salvador, BA	Salvador, BA
		1950	Expansion of Dry Bulk Cargo Terminal at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1951	Construction of mooring structure and grain terminal storage facilities at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1954	Construction of sorting yard at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		1955	Expansion of Gas Products Terminal at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	1956	Expansion of Liquid Bulk Cargo Terminal and construction of back-up area at Port of Aratu in Candeias	2 un	Candeias, BA	Candeias, BA
		1965	Northern expansion of pier and construction of its back-up area at Port of Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1967	Southern expansion of pier and construction of its back-up area at Port of Ilhéus	1 un	Ilhéus, BA	Ilhéus, BA
		1971	Adjustment of berths at Port of Ilhéus	3 un	Ilhéus, BA	Ilhéus, BA
		2075	Construction of two mooring berths at Port of Salvador	2 un	Salvador, BA	Salvador, BA
		2076	Expansion of containment structure at Port of Salvador	1 un	Salvador, BA	Salvador, BA
		2081	Adjustment of mooring structure of commercial wharf at southern tip of Port of Salvador	1 un	Salvador, BA	Salvador, BA
		3063	Implementation of VTMS at Port of Salvador	1 un	Salvador, BA	Salvador, BA
		3064	implementation of VTMS at Port of Aratu in Candeias	1 un	Candeias, BA	Candeias, BA
		Port construction	1969	Construction of passenger terminal at Port of Ilhéus	1 un	Ilhéus, BA
Road	Road adjustment	2317	Implementation of additional lane on BR-030 in Boa Nova	18,0 km	Boa Nova, BA	Boa Nova, BA
		2370	Implementation of additional lane on BR-110 from Pojuca to São Sebastião do Passé	23,0 km	Pojuca, BA	São Sebastião do Passé, BA
		2371	Implementation of additional lane on BR-110 from Jeremoabo to Ribeira do Pombal	64,0 km	Jeremoabo, BA	Ribeira do Pombal, BA
		2459	Implementation of signs on BA-263 from Floresta Azul to Vitória da Conquista	187,4 km	Floresta Azul, BA	Vitória da Conquista, BA
		2528	Implementation of signs on BR-135 from São Desidério to Correntina	138,7 km	São Desidério, BA	Correntina, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		2607	Implementation of signs on BR-418 from Caravelas to Mucuri	123,4 km	Caravelas, BA	Mucuri, BA
		2608	Implementation of additional lane on BR-420 from Laje to Jaguaquara	112,0 km	Laje, BA	Jaguaquara, BA
		2707	Implementation of additional lane on BR-135 road from Formosa do Rio Preto to Riachão das Neves	38,0 km	Formosa do Rio Preto, BA	Riachão das Neves, BA
		3444	Implementation of signs on BA-026 road from Iramaia to Contendas do Sincorá	36,9 km	Iramaia, BA	Contendas do Sincorá, BA
		3445	Implementation of signs on BA-052 road from Feira de Santana to Morro do Chapéu	266,0 km	Feira de Santana, BA	Morro do Chapéu, BA
		3446	Implementation of signs on BA-052 road from Morro do Chapéu to Xique-Xique	164,7 km	Morro do Chapéu, BA	Xique-Xique, BA
Road	Road adjustment	3450	Implementation of signs on BA-131 road from Jacobina to Piritiba	65,2 km	Jacobina, BA	Piritiba, BA
		3453	Implementation of signs on BA-161 road from Serra do Ramalho to Carinhanha	128,4 km	Serra do Ramalho, BA	Carinhanha, BA
		3454	Implementation of signs on BA-262 road from Caraíbas to Brumado	78,8 km	Caraíbas, BA	Brumado, BA
		3456	Implementation of signs on BA-421 from Piritiba to Mundo Novo	29,5 km	Piritiba, BA	Mundo Novo, BA
		3458	Implementation of signs on BR-020 from Correntina to Luís Eduardo Magalhães	196,0 km	Correntina, BA	Luís Eduardo Magalhães, BA
		3474	Implementation of signs on BR-110 from Paulo Afonso to Jeremoabo	76,6 km	Paulo Afonso, BA	Jeremoabo, BA
		3475	Implementation of signs on BR-110 from Ribeira do Pombal to Olindina	70,0 km	Ribeira do Pombal, BA	Olindina, BA
		3487	Implementation of signs on BR-235 road in Remanso	15,5 km	Remanso, BA	Remanso, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3488	Implementation of additional lane on BAT-242/BR-242 from Sapeaçu to Castro Alves	24,0 km	Sapeaçu, BA	Castro Alves, BA
		3493	Implementation of additional lane on BR-324 in Jacobina	10,0 km	Jacobina, BA	Jacobina, BA
		3494	Implementation of signs on BR-324 from Jacobina to Capim Grosso	64,2 km	Jacobina, BA	Capim Grosso, BA
		3504	Implementation of additional lane on BA-130/BR-330 road from Maracás to Jequié	59,0 km	Maracás, BA	Jequié, BA
		3510	Implementation of signs on BR-367 from Santa Cruz Cabrália to Eunápolis	83,7 km	Santa Cruz Cabrália, BA	Eunápolis, BA
		3526	Implementation of signs on BAT-415 / BR-415 from Itabuna to Floresta Azul	43,4 km	Itabuna, BA	Floresta Azul, BA
		3530	Implementation of signs on BR-498 from Porto Seguro to Itamaraju	14,0 km	Porto Seguro, BA	Itamaraju, BA
	Urban road adjustment	3443	Restoration of pavement on Luís Viana Avenue in Salvador	18,9 km	Salvador, BA	Salvador, BA
		3885	Restoration of pavement on urban roads in Vitória da Conquista	31,0 km	Vitória da Conquista, BA	Barra do Choça, BA
	Road construction	0948	Construction of BR-342 from Malhada to Sebastião Laranjeiras	60,1 km	Malhada, BA	Sebastião Laranjeiras, BA
		2157	Construction of BR-135 from Correntina to Jaborandi	32,9 km	Correntina, BA	Jaborandi, BA
		2159	Construction of BR-020 from Riachão das Neves to Campo Alegre de Lourdes	337,4 km	Riachão das Neves, BA	Campo Alegre de Lourdes, BA
		2161	Construction of BR-324 from Sento Sé to Umburanas	107,0 km	Sento Sé, BA	Umburanas, BA
		2162	Construction of BA-001 from Canavieiras to Belmonte	32,0 km	Canavieiras, BA	Belmonte, BA
		2163	Construction of BA-001 from Caravelas to Nova Viçosa	22,0 km	Caravelas, BA	Nova Viçosa, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construction	2164	Construction of BA-001 road from Porto Seguro to Prado	100,0 km	Porto Seguro, BA	Prado, BA
		2720	Construction of BR-122 road from Novo Horizonte to Rio do Pires	49,7 km	Novo Horizonte, BA	Rio do Pires, BA
		2721	Construction of BR-122 road from Juazeiro to Orolândia	152,7 km	Juazeiro, BA	Ourolândia, BA
		3519	Construction of crossing between BR-235 and BR-407 in Juazeiro	9,3 km	Juazeiro, BA	Juazeiro, BA
	Urban road construction	0828	Construction of Linha Viva in Salvador	17,7 km	Salvador, BA	Salvador, BA
		1211	Construction of Atlântica Avenue in Salvador	14,6 km	Salvador, BA	Salvador, BA
		1219	Construction of Transversal Corridor I in Salvador	12,7 km	Salvador, BA	Salvador, BA
		2795	Construction of Transversal Corridor II in Salvador	20,0 km	Salvador, BA	Salvador, BA
	Road duplication	0540	Duplication of BR-101 road from Rio Real to Mucuri	941,3 km	Rio Real, BA	Mucuri, BA
		0565	Duplication of BR-242 road from Rafael Jambeiro to Barreiras	669,3 km	Rafael Jambeiro, BA	Barreiras, BA
		0575	Duplication of BR-330 road from Jequié to Ubaitaba	102,0 km	Jequié, BA	Ubaitaba, BA
		0638	Duplication of BR-415 road from Ilhéus to Itabuna	32,0 km	Ilhéus, BA	Itabuna, BA
		2211	Duplication of BR-020 road from Luís Eduardo Magalhães to Barreiras	81,7 km	Luís Eduardo Magalhães, BA	Barreiras, BA
		2213	Duplication of BR-116 road from Abaré to Feira de Santana	423,9 km	Abaré, BA	Feira de Santana, BA
2318		Duplication of BA-026 / BR-407, BA-142 / BR-407 and BA-262 / BR-407 roads from Contendas do Sincorá to Vitória da Conquista	150,8 km	Contendas do Sincorá, BA	Vitória da Conquista, BA	
2527	Duplication of BR-020 from Jaborandi to Correntina	25,0 km	Jaborandi, BA	Correntina, BA		

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	2529	Duplication of BR-324 from Nova Fátima to Feira de Santana	89,0 km	Nova Fátima, BA	Feira de Santana, BA
		2605	Duplication of BR-242 road in Luís Eduardo Magalhães	15,5 km	Luís Eduardo Magalhães, BA	Luís Eduardo Magalhães, BA
		2609	Duplication of BR-430 from Bom Jesus da Lapa to Caetité	136,0 km	Bom Jesus da Lapa, BA	Caetité, BA
		2702	Duplication of BR-122 from Guanambi to Urandi	82,5 km	Guanambi, BA	Urandi, BA
		2704	Duplication of BA-144 / BR-122, BA-052 / BR-122 and BA-122 / BR-122 roads from Jacobina to Seabra	225,2 km	Jacobina, BA	Seabra, BA
		2706	Duplication of BR-135 road in Barreiras	2,8 km	Barreiras, BA	Barreiras, BA
		3460	Duplication of BR-030 from Malhada to Tanhaçu	267,8 km	Malhada, BA	Tanhaçu, BA
		3476	Duplication of BR-110 from Olindina to Pojuca	118,0 km	Olindina, BA	Pojuca, BA
		3477	Duplication of BR-116 road in Feira de Santana (North Bypass)	5,7 km	Feira de Santana, BA	Feira de Santana, BA
		3506	Duplication of BAT-349/BR-349 road from Itapicuru to Olindina	42,5 km	Itapicuru, BA	Olindina, BA
		3513	Duplication of BA-130 / BR-407 from Capim Grosso to Ruy Barbosa	159,5 km	Capim Grosso, BA	Ruy Barbosa, BA
		3522	Duplication of BR-116 from Rafael Jambeiro to Encruzilhada	446,0 km	Rafael Jambeiro, BA	Encruzilhada, BA
		3525	Duplication of BR-410 from Ribeira do Pombal to Tucano	35,6 km	Ribeira do Pombal, BA	Tucano, BA
	Implementation of express lane or BRT or RTM	0827	Implementation of BRT Lapa - Iguatemi in Salvador	8,6 km	Salvador, BA	Salvador, BA
		3540	Implementation of BRT on Getúlio Vargas and João Durval avenues in Feira de Santana	8,0 km	Feira de Santana, BA	Feira de Santana, BA



Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Paving of road	0818	Paving of BR-030 from Cocos to Carinhanha	114,2 km	Cocos, BA	Carinhanha, BA
		0819	Paving of BR-030 from Tanhaçu to Boa Nova	116,4 km	Tanhaçu, BA	Boa Nova, BA
		0933	Paving of BR-235 from Remanso to Campo Alegre de Lourdes	109,6 km	Remanso, BA	Campo Alegre de Lourdes, BA
		0934	Paving of BR-235 from Pedro Alexandre to Juazeiro	347,1 km	Pedro Alexandre, BA	Juazeiro, BA
		0945	Paving of BAT-251 / BR-251 road of Pau Brasil to Itapetinga	35,0 km	Pau Brasil, BA	Itapetinga, BA
		2156	Paving of BAT-251 / BR-251 from Ilhéus to Buerarema	48,6 km	Ilhéus, BA	Buerarema, BA
		2158	Construction of Highway Bypass in Coribe and paving of BR-135 road in Cocos	30,0 km	Cocos, BA	Coribe, BA
		3462	Paving of BR-030 road from Boa Nova to Maraú	186,3 km	Boa Nova, BA	Maraú, BA
		3496	Paving of BAT-324/ BR-324 road in Remanso	39,3 km	Remanso, BA	Remanso, BA
	Restoration of pavement on road	2498	Restoration of pavement on BA-160 road from Ibotirama to Bom Jesus da Lapa	139,0 km	Ibotirama, BA	Bom Jesus da Lapa, BA
		2499	Restoration of pavement on BA-460 from Luís Eduardo Magalhães to Barreiras	54,6 km	Luís Eduardo Magalhães, BA	Barreiras, BA
		2603	Restoration of pavement on BR-020 road from Barreiras to Riachão das Neves	99,0 km	Barreiras, BA	Riachão das Neves, BA
		2604	Restoration of pavement on BR-030 from Carinhanha to Malhada	26,8 km	Carinhanha, BA	Malhada, BA
		2606	Restoration of pavement on BR-349 road from Bom Jesus da Lapa to Correntina	323,0 km	Bom Jesus da Lapa, BA	Correntina, BA
		2703	Restoration of pavement on BA-122/BR-122 road from Paramirim to Caetité	27,7 km	Paramirim, BA	Caetité, BA
		2705	Restoration of pavement on BR-135 from Barreiras to São Desidério	26,4 km	Barreiras, BA	São Desidério, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3449	Restoration of pavement on BA-130 road in Jequié	12,9 km	Jequié, BA	Jequié, BA
		3465	Restoration of pavement on BR-122 from Ourolândia to Jacobina	32,6 km	Ourolândia, BA	Jacobina, BA
		3486	Restoration of pavement on BR-235 from Casa Nova to Remanso	174,0 km	Casa Nova, BA	Remanso, BA
		3492	Restoration of pavement on BR-324 from Umburanas to Ourolândia	38,3 km	Umburanas, BA	Ourolândia, BA
		3501	Restoration of pavement on BAT-160 / BR-330 and BAT-330 / BR-330 roads from Xique- Xique to Gentio do Ouro	91,9 km	Xique-Xique, BA	Gentio do Ouro, BA
		3503	Restoration of pavement on BA-026 / BR-330 from Iramaia to Maracas	26,5 km	Iramaia, BA	Maracás, BA
		3511	Restoration of pavement on BR-367 road in Itagimirim	39,8 km	Itagimirim, BA	Itagimirim, BA
Terminal	Terminal adjustment	2386	Adjustment of waterway cargo terminal in Juazeiro	1 un	Juazeiro, BA	Juazeiro, BA
	Terminal construction	0348	Construction of cargo waterway terminal in Barra	1 un	Barra, BA	Barra, BA
		0351	Construction of freight terminals in Teixeira de Freitas	1 un	Teixeira de Freitas, BA	Teixeira de Freitas, BA
		1785	Terminal construction waterway cargo terminal in Barreiras	1 un	Barreiras, BA	Barreiras, BA
		1786	Terminal construction rail freight terminal in Barreiras	1 un	Barreiras, BA	Barreiras, BA
		1788	Terminal construction waterway cargo terminal in Itaeté	1 un	Itaeté, BA	Itaeté, BA
		1792	Construction of rail freight terminal in Luís Eduardo Magalhães	1 un	Luís Eduardo Magalhães, BA	Luís Eduardo Magalhães, BA
		1822	Terminal construction waterway cargo terminal in Sento Sé	1 un	Sento Sé, BA	Sento Sé, BA
		1823	Construction of waterway cargo terminal in Serra do Ramalho	1 un	Serra do Ramalho, BA	Serra do Ramalho, BA

Table 98 - Project list - Bahia

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1824	Terminal construction waterway cargo terminal in Malhada	1 un	Malhada, BA	Malhada, BA
		1826	Terminal construction waterway cargo terminal in Xique-Xique	1 un	Xique-Xique, BA	Xique-Xique, BA
		1871	Terminal construction waterway cargo terminal in Remanso	1 un	Remanso, BA	Remanso, BA
		1875	Construction of waterway cargo terminal in Bom Jesus da Lapa	1 un	Bom Jesus da Lapa, BA	Bom Jesus da Lapa, BA
		1876	Terminal construction waterway cargo terminal in Carinhanha	1 un	Carinhanha, BA	Carinhanha, BA
		2383	Construction of rail freight terminal in Feira de Santana	1 un	Feira de Santana, BA	Feira de Santana, BA
		2385	Terminal construction rail freight terminal in Brumado	1 un	Brumado, BA	Brumado, BA
		2839	Construction of parking lot for cargo vehicles in the Metropolitan Region of Salvador	1 un	Salvador, BA	Salvador, BA

Note: No information found for extension of project 1957. Therefore, the project scale was estimated using the expected investment amount.

Table 99 - Minimum Investment - Bahia

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	3 un	579.494.241,26
	Airport construction	3 un	366.769.934,14
Rail	Railway construction	1.347,5 km	8.538.834.683,62
	Construction of metro or urban train	8,5 km	3.970.978.866,58
	Construction of monorail or LRT or atmospheric railway	19,9 km	1.916.013.190,37
	Elimination of bottlenecks	16 un	65.383.241,41
	Restoration of railway	838,0 km	3.214.287.650,22
Waterway	Waterway adjustment	2.182,0 km	1.683.927.501,36
	Cargo riverboat	4 un	332.275.701,64
Port	Waterway access to port	3.241.805,5 m³	409.978.548,04
	Land access to port	66,8 km	2.686.860.899,43
	Port area	17 un	2.264.185.478,80
	Port construction	1 un	20.031.272,35
Road	Road adjustment	2.130,4 km	1.259.326.905,16
	Urban road adjustment	49,9 km	371.709.589,58
	Road construction	903,1 km	4.783.988.454,98
	Urban road construction	65,0 km	6.568.928.437,43
	Road duplication	4.052,1 km	46.974.144.879,59
	Implementation of express lane or BRT or RTM	16,6 km	963.836.464,51
	Paving of road	1.026,5 km	4.065.163.038,02
	Restoration of pavement on road	1.112,5 km	3.663.092.052,56
Terminal	Terminal adjustment	1 un	42.950.913,63
	Terminal construction	16 un	524.342.075,30
<b>Total</b>			<b>95.266.504.019,98</b>

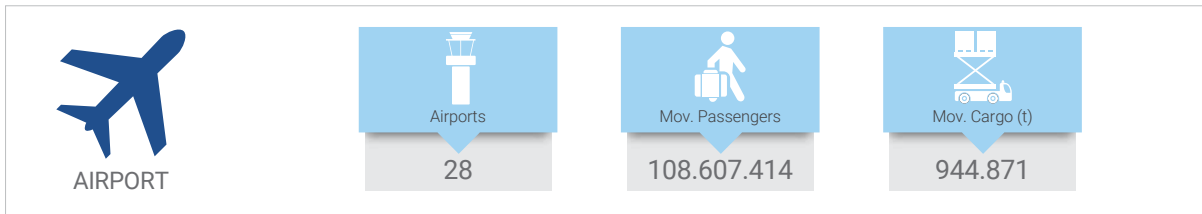
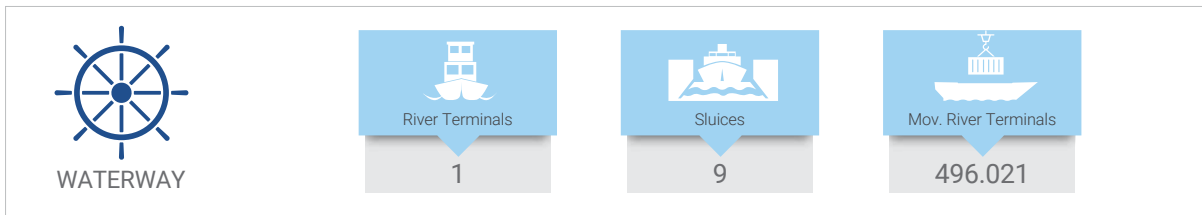
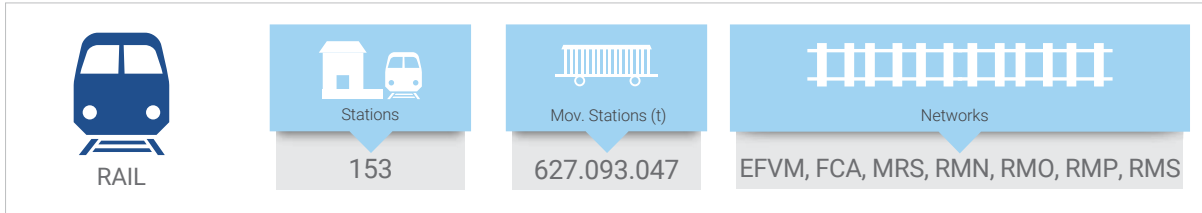
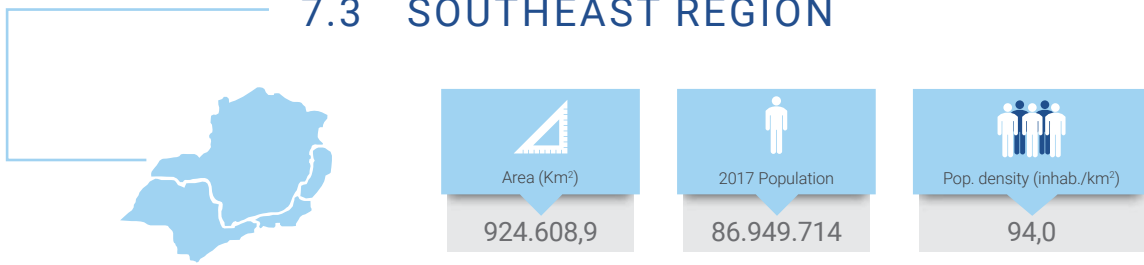
# SOUTHEAST REGION

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### 7.3 SOUTHEAST REGION



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFVM - Vitória-Minas Railway; FCA - Centro-Atlântica Railway; MRS - MRS Logística; NMR - Rumo Malha Norte Network; RMO - Rumo Malha Oeste Network; RMP - Rumo Malha Paulista Network; RMS - Rumo Malha Sul Network.



Table 100 - Number of interventions and minimum investment required, by Corridor, for the Southeast Region

Corridor	Airport	Waterway	Rail	Waterway	Port	Road	Terminal	Total	Minimum Investment (R\$)
E1	12	-	18	-	-	75	5	110	130.192.697.371,27
E2	16	-	33	8	-	81	7	145	156.453.526.117,35
E3	8	-	9	62	-	34	12	125	68.293.676.262,37
E4	-	-	-	-	-	-	-	-	-
E5	-	-	-	-	-	-	-	-	-
E6	4	-	82	-	-	23	20	129	29.070.317.084,90
E7	-	-	-	-	-	4	-	4	4.078.787.141,90
E8	7	-	58	3	-	33	11	112	69.215.442.610,79
E9	-	-	-	-	53	-	-	53	53.566.002.366,27
U	-	1	30	-	-	108	14	153	185.322.978.986,04
<b>Total</b>	<b>47</b>	<b>1</b>	<b>230</b>	<b>73</b>	<b>53</b>	<b>358</b>	<b>69</b>	<b>831</b>	<b>696.193.427.940,89</b>

Table 101 - Minimum Investment - Southeast Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	41 un	3.188.527.979,91
	Airport construction	6 un	12.445.378.927,63
Waterway	Implementation of waterway transportation corridor	186,0 km	3.918.750.000,00
Rail	Acquisition and improvement of rolling stock	58 un	1.822.719.691,37
	Railway construction	5.182,0 km	76.947.093.257,14
	Construction of metro or urban train	263,6 km	104.628.614.438,19
	Construction of monorail or LRT or atmospheric railway	196,7 km	28.473.886.152,57
	Construction of HSR	1.556,7 km	159.105.294.167,27
	Railway duplication	110,0 km	1.073.025.191,02
	Elimination of bottlenecks	322 un	1.400.178.624,77
	Restoration of railway	3.216,5 km	16.774.598.677,59
Waterway	Channel opening	35,4 km	485.793.086,05
	Waterway adjustment	5.003,6 km	6.761.846.785,79
		11 un	630.738.926,38
	Cargo riverboat	54 un	44.158.605.820,69

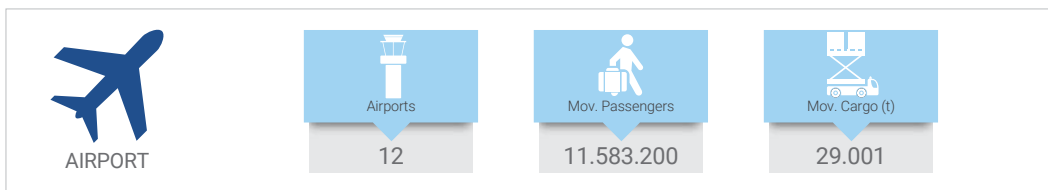
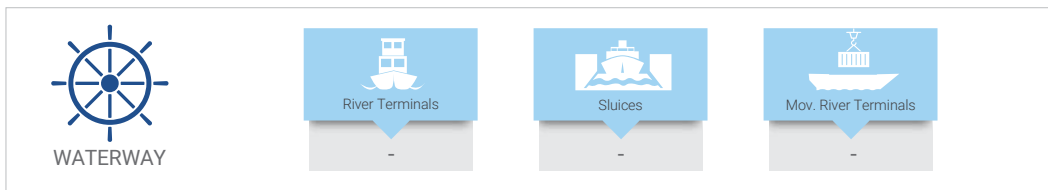
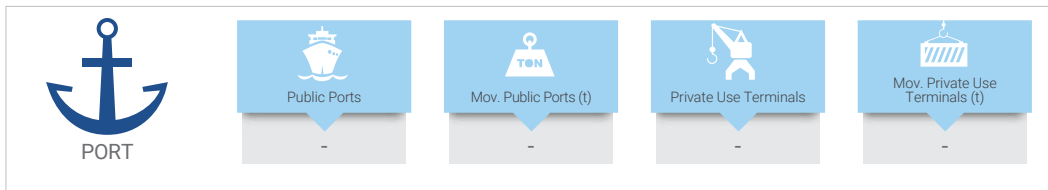
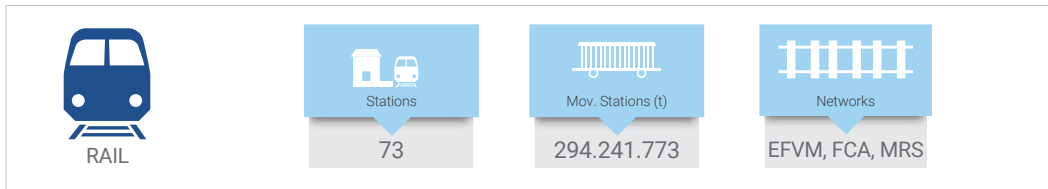
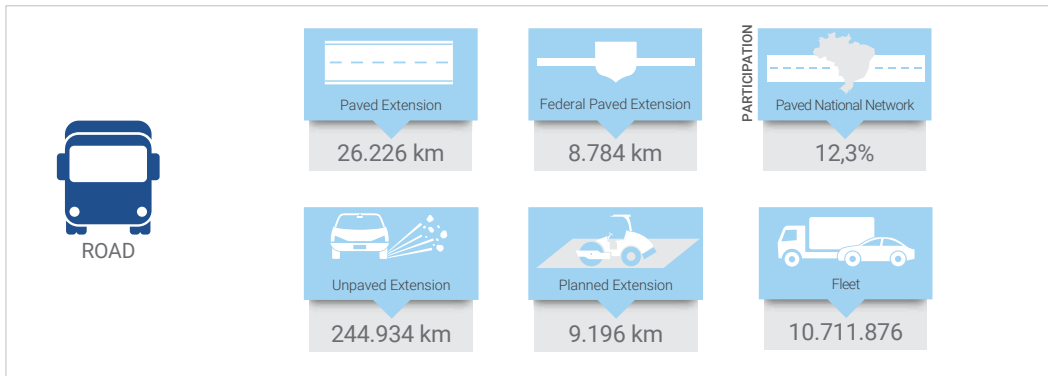
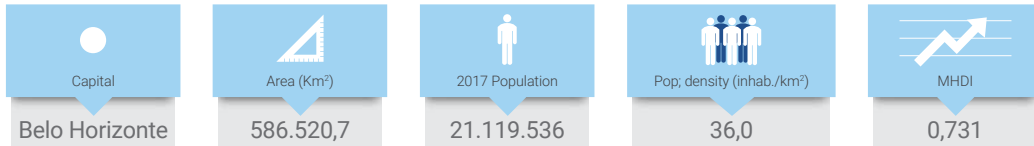
Table 101 - Minimum Investment - Southeast Region

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Port	Waterway access to port	30.865.796,4 m³	1.679.043.992,20
	Land access to port	123,6 km	12.760.754.980,06
	Port area	24 un	3.189.010.384,51
	Port construction	17 un	35.937.193.009,50
Road	Road adjustment	5.389,6 km	12.356.655.041,83
	Urban road adjustment	151,6 km	6.315.253.924,21
	Road construction	2.464,2 km	23.746.904.393,25
	Urban road construction	238,4 km	5.814.949.171,33
	Road duplication	6.143,7 km	72.079.973.508,28
	Implementation of express lane or BRT or RTM	1.503,9 km	25.369.996.839,42
	Paving of road	502,5 km	2.006.129.308,08
	Restoration of pavement on road	3.455,3 km	11.377.937.594,00
Terminal	Station Suitability	138 un	3.045.983.666,31
	Terminal adjustment	8 un	371.782.025,72
	Station construction	26 un	4.727.318.750,00
	Terminal construction	47 un	12.393.983.273,18
	Terminal construction - Urban	9 un	1.205.506.352,64
<b>Total</b>			<b>696.193.427.940,89</b>



### 7.3.1 MINAS GERAIS



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFVM - Vitória-Minas Railway, FCA - Centro-Atlântica Railway, MRS - MRS Logística.

Table 102 - List of projects - Minas Gerais

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0296	Expansion of Brigadeiro Cabral Airport in Divinópolis	1 un	Divinópolis, MG	Divinópolis, MG
		0623	Expansion of Ten Cel Aviador César Bombonato Airport in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG
		0645	Expansion of passenger terminal and aircraft yard at Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		0964	Expansion and restoration of Tancredo Neves Airport in Confins	1 un	Confins, MG	Confins, MG
		1516	Expansion of Coronel Altino Machado Airport in Governador Valadares	1 un	Governador Valadares, MG	Governador Valadares, MG
		1591	Expansion of Carlos Prates Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		1592	Restoration of Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		1593	Expansion of Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
		1594	Expansion of Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG
		1595	Expansion of Francisco de Assis Airport in Juiz de Fora	1 un	Juiz de Fora, MG	Juiz de Fora, MG
		2916	Restoration of runway system at Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG
		2920	Restoration of runway system at Ten Cel Aviador César Bombonato in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG
		2921	Restoration of runway system at Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
3393	Runway repair at Ten Cel Aviador César Bombonato Airport in Uberlândia	1 un	Uberlândia, MG	Uberlândia, MG		

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	3395	Acquisition of fire engines for Mário Ribeiro Airport in Montes Claros	1 un	Montes Claros, MG	Montes Claros, MG
		3396	Acquisition of fire engines for Carlos Drummond de Andrade Airport in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		3398	Acquisition of fire engines for Mario de Almeida Franco Airport in Uberaba	1 un	Uberaba, MG	Uberaba, MG
	Airport construction	1502	Construction of Itajubá Airport	1 un	Itajubá, MG	Itajubá, MG
		1517	Terminal construction passenger terminal at Caxambu Airport	1 un	Caxambu, MG	Caxambu, MG
Rail	Acquisition and improvement of rolling stock	1040	Acquisition of rolling stock for metro Line 2 in Belo Horizonte	28 un	Belo Horizonte, MG	Belo Horizonte, MG
		1041	Acquisition of rolling stock for metro Line 3 in Belo Horizonte	30 un	Belo Horizonte, MG	Belo Horizonte, MG
	Railway construction	0050	Construction of Santos Dumont Rail Bypass	4,7 km	Santos Dumont, MG	Santos Dumont, MG
		0703	Construction of Itaúna Rail Bypass	18,4 km	Itaúna, MG	Itaúna, MG
		0704	Construction of Divinópolis Rail Bypass	29,5 km	Divinópolis, MG	Divinópolis, MG
		0705	Construction of Santo Antônio do Monte Rail Bypass	7,0 km	Santo Antônio do Monte, MG	Santo Antônio do Monte, MG
		1358	Construction of the North-South Railway from Santa Vitória to Iturama	108,2 km	Santa Vitória, MG	Iturama, MG
		1398	Construction of railway in Serra do Tigre from Ibiá to Sete Lagoas	400,0 km	Ibiá, MG	Sete Lagoas, MG
		1446	Construction and remodeling of Goiânia-Rio de Janeiro railway between Unaí and Belmiro Braga	1.009,8 km	Unaí, MG	Belmiro Braga, MG
		1453	Construction of Uruaçu-Campos railway from Unaí to Patrocínio do Muriaé	1.171,9 km	Unaí, MG	Patrocínio do Muriaé, MG

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Railway construction	1478	Construction of Uberlândia-Alto Araguaia rail link from Uberlândia to Cachoeira Dourada	178,3 km	Uberlândia, MG	Cachoeira Dourada, MG	
		1719	Construction of Patrocínio Rail Bypass	21,0 km	Patrocínio, MG	Patrocínio, MG	
		1720	Construction of Corinto Rail Bypass	12,8 km	Corinto, MG	Corinto, MG	
		1721	Construction of Montes Claros Rail Bypass	21,4 km	Montes Claros, MG	Montes Claros, MG	
		1730	Construction of branch line in Juiz de Fora	52,0 km	Juiz de Fora, MG	Belmiro Braga, MG	
	Construction of metro or urban train	1029	Construction of metro Lines 2 and 3 from Contagem to Belo Horizonte	13,5 km	Contagem, MG	Belo Horizonte, MG	
		2768	Construction of metro Line 3 in Belo Horizonte	8,2 km	Belo Horizonte, MG	Belo Horizonte, MG	
		2769	Construction of Savassi-Belvedere section of metro Line 3 in Belo Horizonte	5,0 km	Belo Horizonte, MG	Belo Horizonte, MG	
		2770	Expansion of Line 1 metro extension from Contagem to Betim	20,4 km	Contagem, MG	Betim, MG	
		2771	Expansion of Line 1 metro extension from Belo Horizonte, to Vespasiano	5,4 km	Belo Horizonte, MG	Vespasiano, MG	
		2772	Construction of metro Line 2 in Belo Horizonte	7,9 km	Belo Horizonte, MG	Belo Horizonte, MG	
		2773	Construction of metro Line 2 from Belo Horizonte to Ibirité	12,5 km	Belo Horizonte, MG	Ibirité, MG	
		2774	Construction of metro line from Belo Horizonte to Santa Luzia	43,1 km	Belo Horizonte, MG	Santa Luzia, MG	
		2775	Construction of metro line from Belo Horizonte to Ribeirão das Neves	28,4 km	Belo Horizonte, MG	Ribeirão das Neves, MG	
		Construction of HSR	1465	Construction of Belo Horizonte-Curitiba high-speed rail (HSR) from Belo Horizonte to Poços de Caldas	489,6 km	Belo Horizonte, MG	Poços de Caldas, MG

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	1695	Removal of right of way intrusion in Uberaba	2 un	Uberaba, MG	Uberaba, MG
		3069	Removal of level crossing in Antônio Carlos	1 un	Antônio Carlos, MG	Antônio Carlos, MG
		3070	Removal of level crossing in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG
		3071	Removal of level crossings in Carandaí	2 un	Carandaí, MG	Carandaí, MG
		3072	Removal of level crossing in Congonhas	1 un	Congonhas, MG	Congonhas, MG
		3073	Removal of level crossings in Conselheiro Lafaiete	2 un	Conselheiro Lafaiete, MG	Conselheiro Lafaiete, MG
		3075	Removal of level crossing in Cristiano Ottoni	1 un	Cristiano Ottoni, MG	Cristiano Ottoni, MG
		3076	Removal of level crossings in Ibirité	2 un	Ibirité, MG	Ibirité, MG
		3079	Removal of level crossings in Itabirito	3 un	Itabirito, MG	Itabirito, MG
		3081	Removal of level crossings in Mário Campos	2 un	Mário Campos, MG	Mário Campos, MG
		3082	Removal of level crossing in Senhora dos Remédios	1 un	Senhora dos Remédios, MG	Senhora dos Remédios, MG
		3083	Removal of level crossing in Sarzedo	1 un	Sarzedo, MG	Sarzedo, MG
		3098	Removal of right of way intrusion in Belo Horizonte	5 un	Belo Horizonte, MG	Belo Horizonte, MG
		3099	Removal of right of way intrusions in Juiz de Fora	14 un	Juiz de Fora, MG	Juiz de Fora, MG
		3100	Removal of right of way intrusions in Ibirité	4 un	Ibirité, MG	Ibirité, MG
		3101	Removal of right of way intrusion in Santana do Deserto	1 un	Santana do Deserto, MG	Santana do Deserto, MG
3102	Removal of right of way intrusion in Matias Barbosa	2 un	Matias Barbosa, MG	Matias Barbosa, MG		
3103	Removal of right of way intrusion in Congonhas	1 un	Congonhas, MG	Congonhas, MG		
3104	Removal of right of way intrusion in Belo Vale	1 un	Belo Vale, MG	Belo Vale, MG		

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3105	Removal of right of way intrusions in Sarzedo	2 un	Sarzedo, MG	Sarzedo, MG
		3107	Removal of right of way intrusions in Itabirito	2 un	Itabirito, MG	Itabirito, MG
		3108	Removal of right of way intrusions in Carandaí	2 un	Carandaí, MG	Carandaí, MG
		3110	Removal of right of way intrusions in Patrocínio	3 un	Patrocínio, MG	Patrocínio, MG
		3111	Removal of right of way intrusion in Ibiá	1 un	Ibiá, MG	Ibiá, MG
		3112	Removal of right of way intrusion in Campos Altos	1 un	Campos Altos, MG	Campos Altos, MG
		3113	Removal of right of way intrusions in Bambuí	3 un	Bambuí, MG	Bambuí, MG
		3114	Removal of right of way intrusion in Santo Antônio do Monte	1 un	Santo Antônio do Monte, MG	Santo Antônio do Monte, MG
		3115	Removal of right of way Intrusions in Divinópolis	6 un	Divinópolis, MG	Divinópolis, MG
		3116	Removal of right of way intrusions in Itaúna	2 un	Itaúna, MG	Itaúna, MG
		3117	Removal of right of way intrusions in Mateus Leme	2 un	Mateus Leme, MG	Mateus Leme, MG
		3118	Removal of right of way intrusions in Betim	2 un	Betim, MG	Betim, MG
		3119	Removal of right of way intrusions in Montes Claros	2 un	Montes Claros, MG	Montes Claros, MG
		3120	Removal of right of way intrusion in Santa Luzia	1 un	Santa Luzia, MG	Santa Luzia, MG
		3229	Elimination of level crossing in Serra do Salitre	1 un	Serra do Salitre, MG	Serra do Salitre, MG
		3230	Removal of level crossing in Campos Altos	1 un	Campos Altos, MG	Campos Altos, MG
3231	Removal of level crossings in Bambuí	4 un	Bambuí, MG	Bambuí, MG		
3232	Removal of level crossing in Carmo do Cajuru	1 un	Carmo do Cajuru, MG	Carmo do Cajuru, MG		
3233	Removal of level crossing in Juatuba	1 un	Juatuba, MG	Juatuba, MG		

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3234	Removal of level crossings in Betim	17 un	Betim, MG	Betim, MG
		3235	Removal of level crossings in Tumiritinga	2 un	Tumiritinga, MG	Tumiritinga, MG
		3236	Removal of level crossing in Conselheiro Pena	1 un	Conselheiro Pena, MG	Conselheiro Pena, MG
		3238	Removal of level crossings in Aimorés	3 un	Aimorés, MG	Aimorés, MG
		3239	Removal of level crossing in Espinosa	1 un	Espinosa, MG	Espinosa, MG
		3240	Removal of level crossings in Janaúba	2 un	Janaúba, MG	Janaúba, MG
		3241	Removal of level crossing in Curvelo	1 un	Curvelo, MG	Curvelo, MG
		3242	Removal of level crossing in Prudente de Morais	1 un	Prudente de Morais, MG	Prudente de Morais, MG
		3243	Removal of level crossing in Matozinhos	1 un	Matozinhos, MG	Matozinhos, MG
		3244	Removal of level crossing in Pedro Leopoldo	1 un	Pedro Leopoldo, MG	Pedro Leopoldo, MG
	3245	Removal of level crossings in Santa Luzia	2 un	Santa Luzia, MG	Santa Luzia, MG	
	Restoration of railway	1396	Restoration of passenger train railway from Belo Horizonte, to Conselheiro Lafaiete	149,0 km	Belo Horizonte, MG	Conselheiro Lafaiete, MG
		1397	Restoration of passenger train railway from Bocaiúva to Janaúba	217,0 km	Bocaiúva, MG	Janaúba, MG
	Waterway	Waterway adjustment	1399	Restoration of railway in Serra do Tigre from Pratinha to Tapiraí	50,0 km	Pratinha, MG
1456			Restoration of Iguatama-Barra Mansa rail link from Iguatama to Passa-Vinte	385,1 km	Iguatama, MG	Passa-Vinte, MG
1486			Remodeling of rail link from Araguari to Ibiá	281,1 km	Araguari, MG	Ibiá, MG
2984-INT			Expansion of span and protection of pillars on BR-365 bridge on Paranaíba River waterway	1 un	São Simão, GO	Santa Vitória, MG
3045-INT			Expansion of span and protection of pillars on BR-452 bridge on Paranaíba River waterway	1 un	Itumbiara, GO	Araporã, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	3046-INT	Expansion of span and protection of pillars on GO-139 bridge on Paranaíba River waterway	1 un	Corumbaíba, GO	Araguari, MG
		1339-INT	Adjustment of Paranaíba River waterway from Itumbiara to Aparecida do Taboado	504,0 km	Itumbiara, GO	Aparecida do Taboado, MS
		1335-INT	Signaling and beacon installation of waterways on Paranaíba and Paraná rivers from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR
		2927	Dredging and signaling of Paracatu River waterway from Brasilândia de Minas to Santa Fé de Minas	110,0 km	Brasilândia de Minas, MG	Santa Fé de Minas, MG
		1338-INT	Adjustment of Rio Grande waterway from São José da Barra to Ouroeste	773,0 km	São José da Barra, MG	Ouroeste, SP
		0008-INT	Adjustment of São Francisco River waterway from Pirapora to Juazeiro	1.372,0 km	Pirapora, MG	Juazeiro, BA
	Cargo riverboat	1281-INT	Construction of Cachoeira Dourada sluice on Paranaíba River waterway	1 un	Cachoeira Dourada, GO	Cachoeira Dourada, MG
		1282-INT	Construction of Itumbiara sluice on Paranaíba River waterway	1 un	Catalão, GO	Araguari, MG
		1283-INT	Construction of Itumbiara sluice on Paranaíba River waterway	1 un	Itumbiara, GO	Araporã, MG
		1284-INT	Construction of São Simão sluice on Paranaíba River waterway	1 un	São Simão, GO	Santa Vitória, MG
		1311	Construction of Marechal Mascarenhas de Moraes sluice on Rio Grande waterway	1 un	Delfinópolis, MG	Ibiraci, MG
		1344	Construction of Santo Hipólito sluice on Rio das Velhas waterway	1 un	Santo Hipólito, MG	Santo Hipólito, MG
		1277-INT	Construction of Simplício sluice on Paranaíba do Sul River waterway	1 un	Chiador, MG	Sapucaia, RJ
		1268-INT	Construction of Água Vermelha sluice on Rio Grande waterway	1 un	Iturama, MG	Ouroeste, SP



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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	1269-INT	Construction of Estreito sluice on Rio Grande waterway	1 un	Sacramento, MG	Pedregulho, SP
		1270-INT	Construction of Marimbondo sluice on Rio Grande waterway	1 un	Fronteira, MG	Icém, SP
		1271-INT	Construction of Porto Colômbia sluice on Rio Grande waterway	1 un	Planura, MG	Guaíra, SP
		1272-INT	Construction of Volta Grande sluice on Rio Grande waterway	1 un	Conceição das Alagoas, MG	Miguelópolis, SP
		1309-INT	Construction of the Igarapava sluice on Rio Grande waterway	1 un	Conquista, MG	Igarapava, SP
		1310-INT	Construction of Jaguará sluice on Rio Grande waterway	1 un	Sacramento, MG	Rifaina, SP
		1274-INT	Construction of Ilha do Pombos sluice on Paraíba do Sul River waterway	1 un	Carmo, RJ	Além Paraíba, MG
Road	Road adjustment	3836-INT	Construction of 2nd bridge on BR-153 from Itumbiara to Araporã	0,3 km	Itumbiara, GO	Araporã, MG
		0787	Implementation of additional lane on MGT-369, BR-369 from Oliveira to Campo Belo	20,0 km	Oliveira, MG	Campo Belo, MG
		0790	Implementation of additional lane on MGT-494, BR-494 from Oliveira to São João Del Rei	20,0 km	Oliveira, MG	São João Del Rei, MG
		0974	Adjustment of Belo Horizonte ring road	12,2 km	Belo Horizonte, MG	Belo Horizonte, MG
		2324	Implementation of additional lane on BR-120 from Ponte Nova to Visconde do Rio Branco	46,0 km	Ponte Nova, MG	Visconde do Rio Branco, MG
		2326	Implementation of additional lane on BR-267 from Leopoldina to Caxambu	82,2 km	Leopoldina, MG	Caxambu, MG
		2327	Implementation of additional lane on MG-188, BR-354 and MGT-354, BR-354 from Guarda-Mor to Patos de Minas	126,0 km	Guarda-Mor, MG	Patos de Minas, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2328	Implementation of signs on BR-356 from Muriaé to Patrocínio do Muriaé	24,0 km	Muriaé, MG	Patrocínio do Muriaé, MG
		2329	Implementation of additional lane on BR-365 from João Pinheiro to Patos de Minas	100,0 km	João Pinheiro, MG	Patos de Minas, MG
		2332	Implementation of additional lane on BR-459 from Pouso Alegre to Delfim Moreira	44,0 km	Pouso Alegre, MG	Delfim Moreira, MG
		2468	Implementation of signs on MG-290 from Pouso Alegre to Jacutinga	97,3 km	Pouso Alegre, MG	Jacutinga, MG
		2508	Implementation of signs on MG-434 from Bom Jesus do Amparo to Itabira	19,1 km	Bom Jesus do Amparo, MG	Itabira, MG
		2544	Implementation of signs on BR-494 from Nova Serrana to Divinópolis	30,4 km	Nova Serrana, MG	Divinópolis, MG
		2625	Implementation of additional lane on MGT-462, BR-462 from Patrocínio to Perdizes	60,0 km	Patrocínio, MG	Perdizes, MG
		2627	Implementation of additional lane on MGT-482, BR-482 from Espera Feliz to Fervedouro	64,0 km	Espera Feliz, MG	Fervedouro, MG
		2688	Implementation of additional lane on BR-354 from Pouso Alto to Itamonte	47,0 km	Pouso Alto, MG	Itamonte, MG
		2689	Implementation of additional lane on MGT-354, BR-354 from Cruzília to Baependi	15,0 km	Cruzília, MG	Baependi, MG
		2691	Implementation of additional lane on MGT-383, BR-383 from São João Del Rei to Cruzília	19,0 km	São João Del Rei, MG	Cruzília, MG
		2692	Implementation of additional lane on MGT-383, BR-383 from São Brás do Suaçuí to São João Del Rei	78,1 km	São Brás do Suaçuí, MG	São João Del Rei, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		2694	Implementation of additional lane on MGT-120, BR-120 from Dom Silvério to Ponte Nova	43,0 km	Dom Silvério, MG	Ponte Nova, MG
		2695	Implementation of additional lane on MGT-120, BR-120 from Capelinha to Guanhães	164,0 km	Capelinha, MG	Guanhães, MG
		2696	Implementation of additional lane on MG-123, BR-262 from João Monlevade to Rio Piracicaba	10,0 km	João Monlevade, MG	Rio Piracicaba, MG
		2700	Implementation of additional lane on MGT-135, BR-135 from Januária to Montes Claros	50,0 km	Januária, MG	Montes Claros, MG
		3639	Implementation of signs on BR-365 from Pirapora to João Pinheiro	117,5 km	Pirapora, MG	João Pinheiro, MG
Road	Road adjustment	3642	Implementation of additional lane on BR-365 from Monte Alegre de Minas to Ituiutaba	44,0 km	Monte Alegre de Minas, MG	Ituiutaba, MG
		3643	Implementation of signs on BR-365 from Ituiutaba to Santa Vitória	109,2 km	Ituiutaba, MG	Santa Vitória, MG
		3647	Implementation of signs on BR-120 from Araçuaí to Jenipapo de Minas	49,0 km	Araçuaí, MG	Jenipapo de Minas, MG
		3659	Implementation of signs on BR-146 from Patos de Minas to Araxá	120,4 km	Patos de Minas, MG	Araxá, MG
		3660	Implementation of signs on BR-146 from Albertina to Jacutinga	16,0 km	Albertina, MG	Jacutinga, MG
		3663	Implementation of additional lane on MGT-267, BR-267 from Cambuquira to Campanha	20,0 km	Cambuquira, MG	Campanha, MG
		3669	Implementation of additional lane on BR-491 and MGT-491, BR-491 from São Sebastião do Paraíso to Guaxupé	67,0 km	São Sebastião do Paraíso, MG	Guaxupé, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3671	Implementation of signs on MGT-491, BR-491 from Muzambinho to Areado	39,3 km	Muzambinho, MG	Areado, MG
		3681	Implementation of additional lane on BR-367 from de Minas Novas to Turmalina	40,0 km	Minas Novas, MG	Turmalina, MG
		3682	Implementation of additional lane on MGT-367, BR-367 from Senador Modestino Gonçalves to Datas	96,0 km	Senador Modestino Gonçalves, MG	Datas, MG
		3684	Implementation of additional lane on BR-262 from Martins Soares to São Domingos do Prata	104,0 km	Martins Soares, MG	São Domingos do Prata, MG
		3690	Adjustment of crossing on BR-262 in Uberaba	16,5 km	Uberaba, MG	Uberaba, MG
		3708	Implementation of signs on BR-364 from Ituiutaba to Santa Vitória	96,0 km	Ituiutaba, MG	Santa Vitória, MG
		3722	Implementation of additional lane on MGT-259, BR-259 and MG-010, BR-259 from Governador Valadares to Curvelo	327,0 km	Governador Valadares, MG	Curvelo, MG
		3729	Implementation of additional lane on BR-265 and BR-369 from São Sebastião do Paraíso to Alfenas	67,0 km	São Sebastião do Paraíso, MG	Alfenas, MG
		3732	Implementation of additional lane on BR-265 from Lavras to Santana da Vargem	26,0 km	Lavras, MG	Santana da Vargem, MG
		3738	Implementation of additional lane on BR-352 from Abadia dos Dourados to Coromandel	20,0 km	Abadia dos Dourados, MG	Coromandel, MG
		3739	Implementation of additional lane on BR-352 from Patos de Minas to Arapuá	40,0 km	Patos de Minas, MG	Arapuá, MG
		3740	Implementation of additional lane on MGT-352, BR-352 from Cedro do Abaeté to Pará de Minas	129,0 km	Cedro do Abaeté, MG	Pará de Minas, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		3763	Implementation of signs on BR-393 from Pirapetinga to Volta Grande	27,3 km	Pirapetinga, MG	Volta Grande, MG
		3767	Implementation of additional lane on MGT-418, BR-418 from Nanuque to Teófilo Otoni	86,0 km	Nanuque, MG	Teófilo Otoni, MG
		3771	Implementation of additional lane on MGT-452, BR-452 from Perdizes to Araxá	27,0 km	Perdizes, MG	Araxá, MG
		3774	Implementation of additional lane on MGT-458, BR-458 in Tarumirim	10,0 km	Tarumirim, MG	Tarumirim, MG
		3775	Implementation of additional lane on BR-458 from Inhapim to Ipatinga	20,0 km	Inhapim, MG	Ipatinga, MG
		3776	Implementation of additional lane on BR-460 from Cambuquira to Pouso Alto	63,0 km	Cambuquira, MG	Pouso Alto, MG
Road	Road adjustment	3781	Implementation of additional lane on MGT-482, BR-482 from Porto Firme to Conselheiro Lafaiete	60,0 km	Porto Firme, MG	Conselheiro Lafaiete, MG
		3782	Implementation of signs on BR-499 in Santos Dumont	18,5 km	Santos Dumont, MG	Santos Dumont, MG
		3784	Implementation of signs on MG-167 from Santana Da Vargem to Varginha	43,8 km	Santana da Vargem, MG	Varginha, MG
		3787	Implementation of signs on MG-262 and MG-329 from Rio Casca to Mariana	110,0 km	Rio Casca, MG	Mariana, MG
		3788	Implementation of signs on MG-208 from Minas Novas to Capelinha	44,1 km	Minas Novas, MG	Capelinha, MG
		3789	Implementation of signs on MG-427 from Uberaba to Planura	104,3 km	Uberaba, MG	Planura, MG
		3792	Implementation of signs on MG-450 in Guaxupé	14,6 km	Guaxupé, MG	Guaxupé, MG
		3793	mplementation of signs on MG-605 in Januária	11,5 km	Januária, MG	Januária, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Urban road adjustment	3794	Implementation of signs on MG-818 from Juatuba to Pará de Minas	28,4 km	Juatuba, MG	Pará de Minas, MG
		1101	Adjustment of urban roads in Barreiro region in Belo Horizonte	7,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1105	Expansion of intersection between 90 and 120 in the Center-South and Barreiro regions of Belo Horizonte	1,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1106	Construction of tunnel on 276 in Center-South and East regions of Belo Horizonte	2,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1107	Implementation of intersection between 710 and 643 in East region of Belo Horizonte	1,2 km	Belo Horizonte, MG	Belo Horizonte, MG
		1109	Improvement of intersection between 710 and 250 in East and Northeast regions of Belo Horizonte	1,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1111	Adjustment of urban roads in Northeast region of Belo Horizonte	24,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1113	Adjustment of urban roads in Northwest region of Belo Horizonte	13,7 km	Belo Horizonte, MG	Belo Horizonte, MG
		1115	Adjustment of urban roads in the North region of Belo Horizonte	8,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		1117	Adjustment of urban roads in West region of Belo Horizonte	15,4 km	Belo Horizonte, MG	Belo Horizonte, MG
		1119	Expansion of urban road intersections in West and Barreiro regions in Belo Horizonte	4,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		1121	Adjustment of urban roads in Pampulha region of Belo Horizonte	31,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1123	Adjustment of urban roads in Venda Nova region of Belo Horizonte	2,5 km	Belo Horizonte, MG	Belo Horizonte, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
	Urban road adjustment	1125	Construction of flyover between 590 and 230 in North and Northeast regions of Belo Horizonte	3,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		1126	Adjustment of 590 in Pampulha and North regions in Belo Horizonte	1,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1135	Adjustment of Avenida do Contorno in Belo Horizonte	2,2 km	Belo Horizonte, MG	Belo Horizonte, MG
		3421	Expansion of Complexo da Lagoinha in Belo Horizonte	1,6 km	Belo Horizonte, MG	Belo Horizonte, MG
	Road construction	0178	Construction of North Bypass of Belo Horizonte Ring Road	67,5 km	Sabará, MG	Betim, MG
		0795	Construction of BR-030 from Buritis to Montalvânia	326,6 km	Buritis, MG	Montalvânia, MG
		0943	Construction of BR-251 from Montes Claros to Bonfinópolis de Minas	264,5 km	Montes Claros, MG	Bonfinópolis de Minas, MG
		0944	Construction of BR-251 from Jordânia to Pedra Azul	161,3 km	Jordânia, MG	Pedra Azul, MG
		0946	Construction of BR-464 from Ituiutaba to Prata	78,7 km	Ituiutaba, MG	Prata, MG
		0947	Construction of BR-464 from Sacramento to São João Batista da Glória	174,4 km	Sacramento, MG	São João Batista do Glória, MG
		0950	Construction of MGT-342, BR-342 from Araçuaí to Carai	62,0 km	Araçuaí, MG	Carai, MG
		0951	Construction of BR-342 from Ouro Verde de Minas to Ataléia	43,1 km	Ouro Verde de Minas, MG	Ataléia, MG
		0955	Construction of BR-354 in Guarda-Mor	33,3 km	Guarda-Mor, MG	Guarda-Mor, MG
		2300	Construction of South Bypass of Belo Horizonte Ring Road	35,0 km	Betim, MG	Belo Horizonte, MG
		2301	Construction of MGT-146, BR-146 from Tapira to São João Batista do Glória	193,6 km	Tapira, MG	São João Batista do Glória, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		3636	Construction of East Bypass of Belo Horizonte Ring Road	22,0 km	Belo Horizonte, MG	Sabar, MG
		3719	Construction of Uberaba Ring Road	66,0 km	Uberaba, MG	Uberaba, MG
		3769	Construction of the crossing on BR-440 in Juiz de Fora	6,3 km	Juiz de Fora, MG	Juiz de Fora, MG
		3795	Construction of BR-464 road from Prata to Uberaba	110,2 km	Prata, MG	Uberaba, MG
		1061	Construction of Via 710 in Belo Horizonte	5,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		1102	Construction of urban roads in Barreiro region of Belo Horizonte	31,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1104	Construction of urban roads in Center-South region of Belo Horizonte	12,7 km	Belo Horizonte, MG	Belo Horizonte, MG
		1108	Construction of urban roads in East region of Belo Horizonte	7,9 km	Belo Horizonte, MG	Belo Horizonte, MG
Road	Urban road construction	1110	Construction of road parallel to 710 in the East and Northeast regions of Belo Horizonte	3,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1112	Construction of urban roads in Northeast region of Belo Horizonte	28,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1114	Construction of urban roads in Northwest region of Belo Horizonte	16,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1116	Construction of urban roads in North region of Belo Horizonte	24,4 km	Belo Horizonte, MG	Belo Horizonte, MG
		1118	Construction of urban roads in West region of Belo Horizonte	25,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1120	Construction of Via 936 in West and Barreiro regions of Belo Horizonte	4,3 km	Belo Horizonte, MG	Belo Horizonte, MG
		1122	Construction of urban roads in Pampulha region of Belo Horizonte	16,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		1124	Construction of urban roads in Venda Nova region of Belo Horizonte	12,7 km	Belo Horizonte, MG	Belo Horizonte, MG



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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
		0593	Duplication of BR-262 from São Domingos do Prata to João Monlevade	10,9 km	São Domingos do Prata, MG	João Monlevade, MG
		0595	Duplication of BR-116 from Divisa Alegre to Além Paraíba	816,1 km	Divisa Alegre, MG	Além Paraíba, MG
		0599	Duplication of BR-381 from Governador Valadares to Belo Horizonte	298,9 km	Governador Valadares, MG	Belo Horizonte, MG
		0789	Duplication of BR-146 from Muzambinho to Andradas	89,3 km	Muzambinho, MG	Andradas, MG
		2298	Duplication of BR-365 from Patos de Minas to Uberlândia	197,4 km	Patos de Minas, MG	Uberlândia, MG
		2311	Duplication of BR-251 from Águas Vermelhas to Montes Claros	331,2 km	Águas Vermelhas, MG	Montes Claros, MG
		2312	Duplication of BR-135 from Montes Claros to Curvelo	321,5 km	Montes Claros, MG	Curvelo, MG
Road	Road duplication	2313	Duplication of BR-356 from Nova Lima to Mariana	83,4 km	Nova Lima, MG	Mariana, MG
		2331	Duplication of BR-393 from Volta Grande to Além Paraíba	18,3 km	Volta Grande, MG	Além Paraíba, MG
		2369	Duplication of BR-365 from Montes Claros to Pirapora	151,1 km	Montes Claros, MG	Pirapora, MG
		2541	Duplication of MGT-364, BR-364 from Planura to Frutal	40,0 km	Planura, MG	Frutal, MG
		2619	Duplication of MGT-122, BR-122 from Espinosa to Francisco Sá	253,4 km	Espinosa, MG	Francisco Sá, MG
		2620	Duplication of MGT-342, BR-342 from Salinas to Araçuaí	104,7 km	Salinas, MG	Araçuaí, MG
		2680	Duplication of BR-367 from Salto da Divisa to Araçuaí	233,7 km	Salto da Divisa, MG	Araçuaí, MG
		2690	Duplication of BR-354 from Arapuá to Perdões	282,3 km	Arapuá, MG	Perdões, MG
		3637	Duplication of BR-050 in Uberlândia	11,4 km	Uberlândia, MG	Uberlândia, MG

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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road duplication	3644	Duplication of MGT-120, BR-120 and MG-129, BR-120 from Guanhões to Itabira	154,4 km	Guanhões, MG	Itabira, MG	
		3661	Duplication of BR-267 from Machado to Poços de Caldas	75,7 km	Machado, MG	Poços de Caldas, MG	
		3662	Duplication of MGT-267, BR-267 and MGT- 267, BR-383 from Caxambu to Cambuquira	40,8 km	Caxambu, MG	Cambuquira, MG	
		3673	Duplication of MGT-491, BR-491 from Varginha to Três Corações	15,9 km	Varginha, MG	Três Corações, MG	
		3703	Duplication of MGT-154, BR-154 and BR-154 from Ituiutaba to Itapagipe	41,7 km	Ituiutaba, MG	Itapagipe, MG	
		3706	Duplication of MGT-497, BR-497 road from Prata to Campina Verde	68,9 km	Prata, MG	Campina Verde, MG	
		3707	Duplication of BR-364 in Santa Vitória	10,0 km	Santa Vitória, MG	Santa Vitória, MG	
		3717	Duplication of BR-251 in Unai	84,5 km	Unai, MG	Unai, MG	
		3730	Duplication of BR-265 in São João Del Rei	12,1 km	São João Del Rei, MG	São João Del Rei, MG	
		3733	Duplication of BR-494 from Divinópolis to Oliveira	68,3 km	Divinópolis, MG	Oliveira, MG	
		3736	Duplication of BR-459 from Poços De Caldas to Pouso Alegre	89,7 km	Poços de Caldas, MG	Pouso Alegre, MG	
		3770	Duplication of BR-452 from Tupaciguara to Monte Alegre de Minas	32,6 km	Tupaciguara, MG	Monte Alegre de Minas, MG	
		3773	Duplication of MGT-455, BR-455 from Campo Florido to Planur	51,6 km	Campo Florido, MG	Planura, MG	
		Implementation of express lane or BRT or RTM	1047	Implementation of Move Antônio Carlos BRT in Belo Horizonte	14,7 km	Belo Horizonte, MG	Belo Horizonte, MG
			1127	Implementation of preferential lane on Avenida Portugal in Belo Horizonte	5,1 km	Belo Horizonte, MG	Belo Horizonte, MG

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1128	Implementation of BRT on Avenidas Civilização and Vilarinho in Belo Horizonte	4,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		1129	Implementation of Amazonas Corridor BRT in Belo Horizonte	33,6 km	Belo Horizonte, MG	Belo Horizonte, MG
		1136	Implantation of BRT on Ring Road in Belo Horizonte	26,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		1137	Implementation of BRS on Intermediate Ring Road in Belo Horizonte	26,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		1138	Implementation of BRS on Andradas-Assis Chateaubriand Bypass in Belo Horizonte	14,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		1141	Implementation of BRS on Avenida Raja Gabaglia in Belo Horizonte	5,5 km	Belo Horizonte, MG	Belo Horizonte, MG
		1142	Implementation of the East, North, West, Southwest and South Structural Corridors in Uberlândia	58,2 km	Uberlândia, MG	Uberlândia, MG
		1152	Implementation of Vetor Sudoeste BRT in Uberaba	6,4 km	Uberaba, MG	Uberaba, MG
		1154	Implementation of Vetor Sudeste BRT in Uberaba	3,7 km	Uberaba, MG	Uberaba, MG
		3401	Implementation of BRS on Avenida Nossa Senhora do Carmo in Belo Horizonte	5,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		3403	Implementation of Estoril-Salgado Filho BRS in Belo Horizonte	5,8 km	Belo Horizonte, MG	Belo Horizonte, MG
		3404	Implementation of Venda Nov-Barreiro BRS in Belo Horizonte	19,9 km	Belo Horizonte, MG	Belo Horizonte, MG
		3405	Implementation of BRS on Avenida Afonso Pena in Belo Horizonte	3,1 km	Belo Horizonte, MG	Belo Horizonte, MG
		3406	Implementation of BRT on Avenidas Cristiano Machado and Risoleta Neves and 540 in Belo Horizonte	7,7 km	Belo Horizonte, MG	Belo Horizonte, MG

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	3407	Implementation of preferential lanes in Belo Horizonte	54,0 km	Belo Horizonte, MG	Belo Horizonte, MG
		3452	Implementation of preferential bus lanes in Ribeirão das Neves	8,1 km	Ribeirão das Neves, MG	Ribeirão das Neves, MG
		3455	Implementation of preferential bus lanes in Contagem	42,1 km	Contagem, MG	Contagem, MG
		3457	Implementation of preferential bus lanes in Juiz de Fora	6,7 km	Juiz de Fora, MG	Juiz de Fora, MG
		3459	Implementation of preferential lanes and preferential bus lanes in Montes Claros	5,9 km	Montes Claros, MG	Montes Claros, MG
		3527	Implementation of the Southwest-East and East-Southwest Corridors in Governador Valadares	15,6 km	Governador Valadares, MG	Governador Valadares, MG
	Paving of road	0812	Paving of BR-146 from Passos to Bom Jesus da Penha	43,5 km	Passos, MG	Bom Jesus da Penha, MG
		0940	Paving of BR-367 from Virgem da Lapa to Minas Nova	59,5 km	Virgem da Lapa, MG	Minas Novas, MG
		0941	Paving of BR-367 from Salto da Divisa to Jacinto	64,3 km	Salto da Divisa, MG	Jacinto, MG
		0949	Paving of MGT-342, BR-342 from Espinosa to Novorizonte	139,4 km	Espinosa, MG	Novorizonte, MG
		2296	Paving of BR-135 from Montalvânia to Itacarambi	137,4 km	Montalvânia, MG	Itacarambi, MG
		2302	Paving of BR-154 road in Ituiutaba	46,4 km	Ituiutaba, MG	Ituiutaba, MG
		2325	Restoration of pavement on road BR-259 from Aimorés to Galiléia	129,2 km	Aimorés, MG	Galiléia, MG
		2330	Restoration of pavement on road MGT-381, BR-381 from Mantena to Galiléia	108,2 km	Mantena, MG	Galiléia, MG
		2467	Restoration of the pavement of MG-190 road from the Abadia dos Dourados to Romaria	61,2 km	Abadia dos Dourados, MG	Romaria, MG
		Implementation of express lane or BRT or RTM				

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	2502	Restoration of pavement on road LMG-633 from Jaíba to Itacarambi	47,2 km	Jaíba, MG	Itacarambi, MG
		2503	Restoration of pavement on MG-123 from Rio Piracicaba to Dom Silvério	44,5 km	Rio Piracicaba, MG	Dom Silvério, MG
		2516	Restoration of pavement on MG-188 from Unaí to Patrocínio	291,1 km	Unaí, MG	Patrocínio, MG
		2539	Restoration of pavement on MGT-135, BR-135 from Itacarambi to Januária	59,1 km	Itacarambi, MG	Januária, MG
		2540	Restoration of pavement on BR-352 in Abadia dos Dourados	42,5 km	Abadia dos Dourados, MG	Abadia dos Dourados, MG
		2542	Restoration of pavement on MGT-367, BR-367 from Turmalina to Senador Modestino Gonçalves	85,0 km	Turmalina, MG	Senador Modestino Gonçalves, MG
		2543	Restoration of pavement of MGT-452, BR-452 road from Araporã to Tupaciguara	58,5 km	Araporã, MG	Tupaciguara, MG
		2621	Restoration of pavement on MGT-356, BR-356 and BR-356 from Coimbra to Muriaé	71,3 km	Coimbra, MG	Muriaé, MG
		2622	Restoration of pavement on BR-381 from Galiléia to Governador Valadares	38,2 km	Galiléia, MG	Governador Valadares, MG
		2623	Restoration of pavement on MGT-418, BR-418 from Serra dos Aimorés to Nanuque	23,0 km	Serra dos Aimorés, MG	Nanuque, MG
		2624	Restoration of pavement of MGT-452, BR-452 from Uberlândia to Perdizes	121,4 km	Uberlândia, MG	Perdizes, MG
		2626	Restoration of pavement on BR-474 and MGT-474, BR-474 Aimorés the Caratinga	148,6 km	Aimorés, MG	Caratinga, MG
2628	Restoration of pavement on MGT-496, BR-496 from Pirapora to Corinto	135,9 km	Pirapora, MG	Corinto, MG		

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	2629	Restoration of pavement on MGT-497, BR-497 road from Campina Verde to Carneirinho	168,5 km	Campina Verde, MG	Carneirinho, MG
		2686	Restoration of pavement on MGT-265, BR-265 from Ubá to Mercês	67,8 km	Ubá, MG	Mercês, MG
		2687	Restoration of pavement on BR-265 from São João Del Rei to Lavras	89,0 km	São João Del Rei, MG	Lavras, MG
		2693	Restoration of pavement on MG-447, BR-120 from Visconde do Rio Branco to Ubá	20,9 km	Visconde do Rio Branco, MG	Ubá, MG
		2699	Restoration of pavement on MGT-251, BR-251 in Pedra Azul	14,8 km	Pedra Azul, MG	Pedra Azul, MG
		3645	Restoration of pavement on MGT-120, BR-120 from Itabira to São Domingos do Prata	45,8 km	Itabira, MG	São Domingos do Prata, MG
		3646	Restoration of the pavement on BR-120, MG-285, BR-120, MGT-120, BR-120 and MG-285 from Piraúba to Leopoldina	65,1 km	Piraúba, MG	Leopoldina, MG
		3670	Restoration of pavement on MG-491, BR-491 from Guaxupé to Muzambinho	27,0 km	Guaxupé, MG	Muzambinho, MG
		3702	Restoration of pavement of MGT-154, BR-154 from Cachoeira Dourada to Ituiutaba	55,8 km	Cachoeira Dourada, MG	Ituiutaba, MG
		3704	Restoration of pavement of BR-497 and MGT-497, BR-497 from Uberlândia to Prata	76,4 km	Uberlândia, MG	Prata, MG
		3723	Restoration of pavement on MGT-259, BR-259 from Curvelo to Felixlândia	42,8 km	Curvelo, MG	Felixlândia, MG
		3728	Restoration of pavement on MGT-369, BR-369 from Boa Esperança to Campo Belo	47,6 km	Boa Esperança, MG	Campo Belo, MG
3772	Restoration of pavement of MGT-455, BR-455 from Uberlândia to Prata	68,5 km	Uberlândia, MG	Prata, MG		

Table 102 - List of projects - Minas Gerais

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3777	Restoration of pavement on MG-426, BR-461 in Iturama	17,7 km	Iturama, MG	Iturama, MG
		3783	Restoration of pavement on MG-164 and MG-420 from Curvelo to Martinho Campos	71,6 km	Curvelo, MG	Martinho Campos, MG
		3785	Restoration of pavement on MG-179 from Alfenas to Pouso Alegre	103,2 km	Alfenas, MG	Pouso Alegre, MG
		3786	Restoration of pavement on MG-223 and MG-413 in Araguari	67,1 km	Araguari, MG	Araguari, MG
		3790	Restoration of pavement on MG-448 from Mercês to Barbacena	27,7 km	Mercês, MG	Barbacena, MG
		3791	Restoration of pavement on MG-877 in Poços de Caldas	25,7 km	Poços de Caldas, MG	Poços de Caldas, MG
Terminal	Terminal adjustment	0398	Adjustment of Pirapora waterway cargo terminal	1 un	Pirapora, MG	Pirapora, MG
		1855	Adjustment of Itacarambi waterway terminal	1 un	Itacarambi, MG	Itacarambi, MG
		1856	Adjustment of Manga waterway terminal	1 un	Manga, MG	Manga, MG
		1857	Adjustment of Matias Cardoso waterway terminal	1 un	Matias Cardoso, MG	Matias Cardoso, MG
		1860	Adjustment of São Romão waterway terminal	1 un	São Romão, MG	São Romão, MG
	Terminal construction	0397	Construction of waterway cargo terminal in Januária	1 un	Januária, MG	Januária, MG
		1825	Construction of waterway cargo terminal in São Francisco	1 un	São Francisco, MG	São Francisco, MG
		1854	Construction of waterway cargo terminal in Ibiaí	1 un	Ibiaí, MG	Ibiaí, MG
		1858	Construction of waterway cargo terminal in Jaíba	1 un	Jaíba, MG	Jaíba, MG
		1859	Construction of waterway cargo terminal in Pedras de Maria da Cruz	1 un	Pedras de Maria da Cruz, MG	Pedras de Maria da Cruz, MG
2835	Construction of parking lot for cargo vehicles in Belo Horizonte Metropolitan Region	1 un	Belo Horizonte, MG	Belo Horizonte, MG		

Table 102 - List of projects - Minas Gerais

continuation

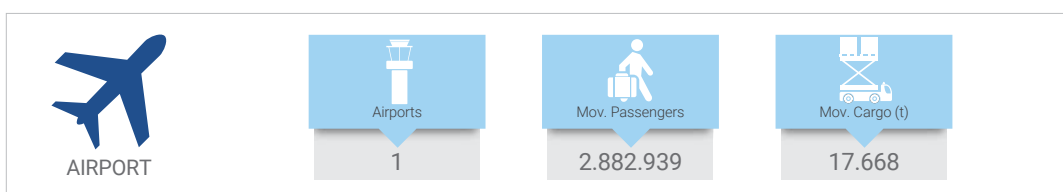
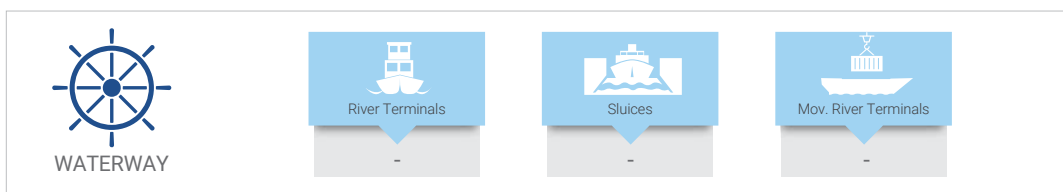
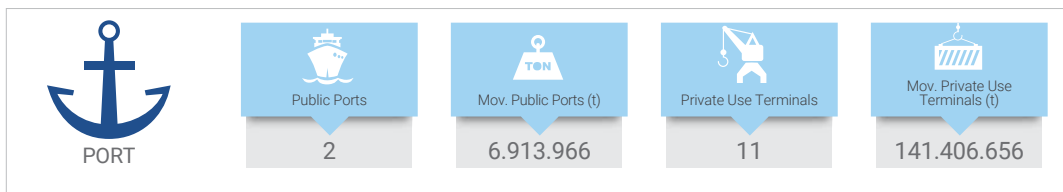
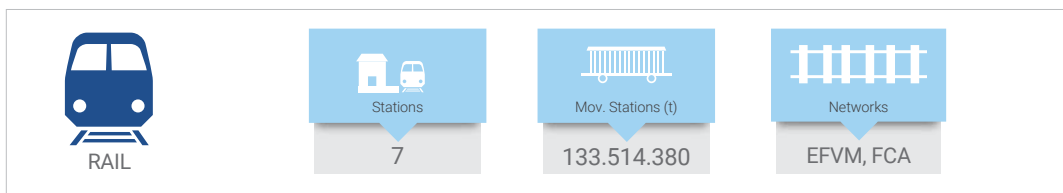
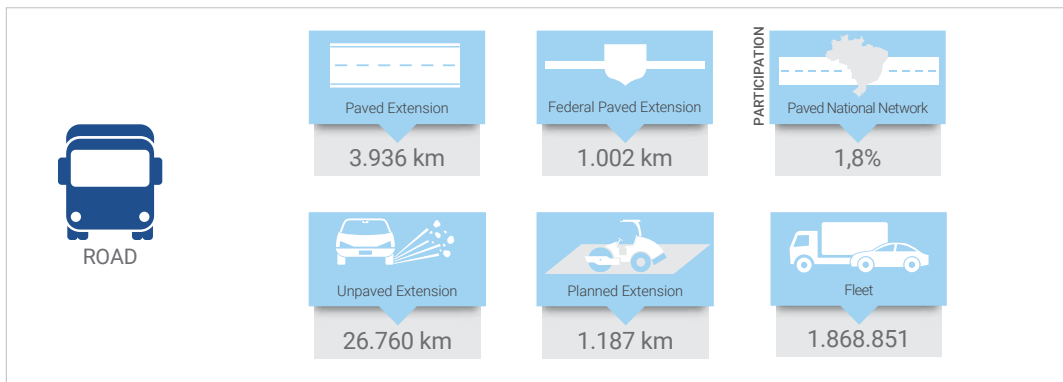
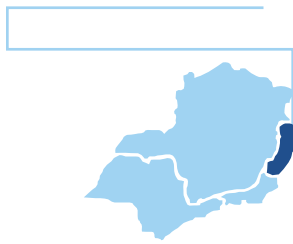
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction - Urban	1134	Construction of urban passenger bus terminals in Belo Horizonte	4 un	Belo Horizonte, MG	Belo Horizonte, MG
		3408	Construction of São José Integration Station in Belo Horizonte	1 un	Belo Horizonte, MG	Belo Horizonte, MG

Table 103 - Minimum Investment - Minas Gerais

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	17 un	2.237.454.961,64
	Airport construction	2 un	118.622.095,44
Ferroviária	Acquisition and improvement of rolling stock	58 un	1.822.719.691,37
	Railway construction	3.035,0 km	41.665.678.072,11
	Construction of metro or urban train	144,4 km	53.403.737.313,84
	Construction of HSR	489,6 km	32.554.839.232,25
	Elimination of bottlenecks	117 un	464.852.631,86
	Restoration of railway	1.082,2 km	4.273.505.394,50
Waterway	Waterway adjustment	3.718,0 km	5.371.706.801,14
		3 un	286.261.439,43
	Cargo riverboat	15 un	21.142.618.289,48
Road	Road adjustment	3.384,0 km	9.824.585.595,80
	Urban road adjustment	123,6 km	2.480.675.174,18
	Road construction	1.644,5 km	13.023.102.628,52
	Urban road construction	189,5 km	3.830.939.744,87
	Road duplication	3.989,8 km	47.219.465.531,96
	Implementation of express lane or BRT or RTM	374,2 km	3.850.320.416,36
	Paving of road	490,5 km	1.635.949.763,52
	Restoration of pavement on road	2.567,9 km	8.455.814.755,98
Terminal	Terminal adjustment	5 un	228.903.104,39
	Terminal construction	6 un	9.700.056.245,38
	Terminal construction - Urban	5 un	164.504.398,24
<b>Total</b>			<b>263.756.313.282,26</b>



### 7.3.2 ESPÍRITO SANTO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFVM - Vitória-Minas Railway, FCA - Centro-Atlântica railway.

Table 104 - List of projects - Espírito Santo

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0620	Expansion of cargo terminal at Eurico de Aguiar Salles Airport in Vitória	1 un	Vitória, ES	Vitória, ES
		1522	Construction of runway and aircraft yard at Linhares Municipal Airport	1 un	Linhares, ES	Linhares, ES
Rail	Railway construction	1368	Construction of Rio de Janeiro-Vitória Railway from Presidente Kennedy to Cariacica	155,5 km	Presidente Kennedy, ES	Cariacica, ES
		1370	Construction of North Coastal Railway from Pedro Canário to Aracruz	208,0 km	Pedro Canário, ES	Aracruz, ES
	Elimination of bottlenecks	3091	Removal of right of way intrusions in Cariacica	3 un	Cariacica, ES	Cariacica, ES
		3092	Removal of right of way intrusions in Mimoso do Sul	2 un	Mimoso do Sul, ES	Mimoso do Sul, ES
		3093	Removal of right of way intrusion in Viana	1 un	Viana, ES	Viana, ES
		3094	Removal of right of way intrusion in Vargem Alta	1 un	Vargem Alta, ES	Vargem Alta, ES
		3095	Removal of right of way intrusion in Vila Velha	1 un	Vila Velha, ES	Vila Velha, ES
		3096	Removal of right of way intrusion in Marechal Floriano	1 un	Marechal Floriano, ES	Marechal Floriano, ES
		3097	Removal of right of way intrusion in Atílio Vivacqua	1 un	Atílio Vivacqua, ES	Atílio Vivacqua, ES
		3263	Removal of level crossing in Baixo Guandu	1 un	Baixo Guandu, ES	Baixo Guandu, ES
		3264	Removal of level crossings in Cariacica	3 un	Cariacica, ES	Cariacica, ES
		Port	Waterway access to port	1899	Deepening of Port of Barra do Riacho to 16 meters in Aracruz via dredging	8.522.326,9 m³
Land access to port	2924		Adjustment of road access to Capuaba port terminal at Port of Vitória	3,0 km	Vitória, ES	Vitória, ES
	2933		Construction of Portal do Príncipe road access to Port of Vitória	1,0 km	Vitória, ES	Vitória, ES

Table 104 - List of projects - Espírito Santo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2139	Expansion of mooring structure of berth 905 at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2140	Implementation of signaling and beacon installation at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2142	Construction of berth with back-up area at Atalaia dolphins in Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2146	Expansion of Vila Velha terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2930	Expansion of berths 103 and 104 at Commercial Wharf at Port of Vitória	2 un	Vitória, ES	Vitória, ES
		2931	Construction of heavy cargo storage yard at Commercial Wharf of Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2932	Construction of port logistics support area (AALP) at Port of Vitória	1 un	Vitória, ES	Vitória, ES
	Port construction	1918	Construction of supply boat terminal at Port of Praia do Além in Anchieta	1 un	Anchieta, ES	Anchieta, ES
		1929	Construction of container and general cargo terminal at Port of Barra do Riacho in Aracruz	1 un	Aracruz, ES	Aracruz, ES
		2143	Construction of container terminals at Port of Vitória	2 un	Vitória, ES	Vitória, ES
		2144	Construction of terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		2145	Construction of deepwater port of Espírito Santo	1 un	Vila Velha, ES	Vila Velha, ES
		2928	Construction of liquid bulk cargo terminal at Port of Vitória	1 un	Vitória, ES	Vitória, ES
		3038	Construction of supply boat terminal at Port of Barra do Riacho in Aracruz	1 un	Aracruz, ES	Aracruz, ES

Table 104 - List of projects - Espírito Santo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2321	Implementation of additional lane on BR-342 in Nova Venécia	20,0 km	Nova Venécia, ES	Nova Venécia, ES
		2535	Implementation of signs on BR-262 from Vitória to Cariacica	5,5 km	Vitória, ES	Cariacica, ES
		2612	Implementation of additional lane on EST-484/BR-484 from Guaçuí to Bom Jesus do Norte	30,0 km	Guaçuí, ES	Bom Jesus do Norte, ES
		3608	Implementation of additional lane on ES-381 / BR-381 from Nova Venécia to Águia Branca	10,0 km	Nova Venécia, ES	Águia Branca, ES
		3610	Implementation of additional lane on BR-393 from Cachoeiro de Itapemirim to Muqui	10,0 km	Cachoeiro de Itapemirim, ES	Muqui, ES
		3611	Implementation of additional lane on BR-482 from Alegre to Dores do Rio Preto	21,1 km	Alegre, ES	Dores do Rio Preto, ES
		3622	Implementation of signs on ES-490 from Itapemirim to Marataízes	32,4 km	Itapemirim, ES	Marataízes, ES
		3965	Construction of bridges on ES-381 / BR-381 in state of Espírito Santo	2,0 km	Nova Venécia, ES	Nova Venécia, ES
	Urban road adjustment	1206	Adjustment of Avenida Alice Coutinho and Governador José Sette Highway in Cariacica	8,4 km	Cariacica, ES	Cariacica, ES
	Road construct	0952	Construction of ES-080 / BR-342 in Ecoporanga	49,6 km	Ecoporanga, ES	Ecoporanga, ES
		0953	Construction of BR-342 from Nova Venécia to Sooretama	84,0 km	Nova Venécia, ES	Sooretama, ES
		2305	Construction of BR-393 from Muqui to Bom Jesus do Norte	49,5 km	Muqui, ES	Bom Jesus do Norte, ES
		2307	Construction of Cachoeiro de Itapemirim Bypass on BR-482	5,3 km	Cachoeiro de Itapemirim, ES	Cachoeiro de Itapemirim, ES
		2308	Construction of BR-484 from Colatina to Afonso Cláudio	82,6 km	Colatina, ES	Afonso Cláudio, ES
		2309	Construction of Serra Bypass on BR-101	19,7 km	Serra, ES	Serra, ES

Table 104 - List of projects - Espírito Santo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construct	3606	Construction of BR-342 from Ecoporanga to Nova Venécia	24,7 km	Ecoporanga, ES	Nova Venécia, ES
		3615	Construction of BR-484 from Afonso Cláudio to Conceição do Castelo	32,5 km	Afonso Cláudio, ES	Conceição do Castelo, ES
		3616	Construction of BR-484 from Muniz Freire to Guaçuí	82,4 km	Muniz Freire, ES	Guaçuí, ES
	Urban road construction	1207	Construction of South Exit in Vila Velha	6,4 km	Vila Velha, ES	Vila Velha, ES
	Road duplication	0579	Duplication of BR-262 from Viana to Iúna	180,6 km	Viana, ES	Iúna, ES
		3599	Duplication of BR-259 from João Neiva to Colatina	49,0 km	João Neiva, ES	Colatina, ES
	Implementation of express lane or BRT or RTM	0751	Implementation of 1st stage of Greater Vitória BRT from Serra to Vila Velha	24,0 km	Serra, ES	Vila Velha, ES
	Paving of road	2306	Paving of BR-447 from Cariacica to Vila Velha	12,0 km	Cariacica, ES	Vila Velha, ES
	Restoration of pavement on road	2320	Restoration of pavement on BR-259 from Colatina to Baixo Guandu	57,1 km	Colatina, ES	Baixo Guandu, ES
		2322	Restoration of pavement on ES-080/BR-381 and EST-381/BR-381 from Águia Branca to Barra de São Francisco	32,7 km	Águia Branca, ES	Barra de São Francisco, ES
		2461	Restoration of pavement on ES-164 in Itaguaçu	20,7 km	Itaguaçu, ES	Itaguaçu, ES
		2463	Restoration of pavement on ES-264 from Santa Maria de Jetibá to Santa Leopoldina	33,9 km	Santa Maria de Jetibá, ES	Santa Leopoldina, ES
		2464	Restoration of pavement on ES-446 from Baixo Guandu to Itaguaçu	31,0 km	Baixo Guandu, ES	Itaguaçu, ES
		2500	Restoration of pavement on ES-010 from Serra to Aracruz	59,0 km	Serra, ES	Aracruz, ES
		2611	Restoration of pavement on EST-482 / BR-482 from Cachoeiro de Itapemirim to Alegre	58,3 km	Cachoeiro de Itapemirim, ES	Alegre, ES
3607		Restoration of pavement on ES-137 / BR-381 in Nova Venécia	11,7 km	Nova Venécia, ES	Nova Venécia, ES	

Table 104 - List of projects - Espírito Santo

continuation

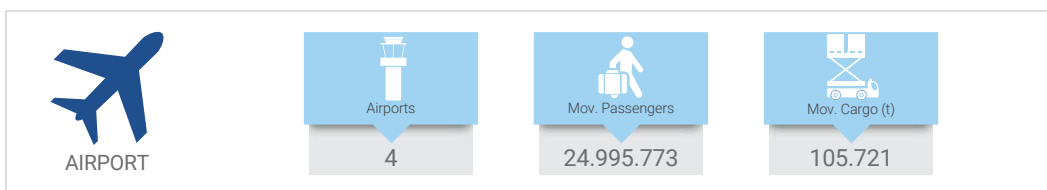
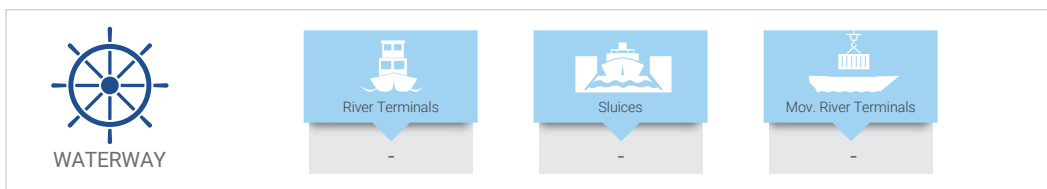
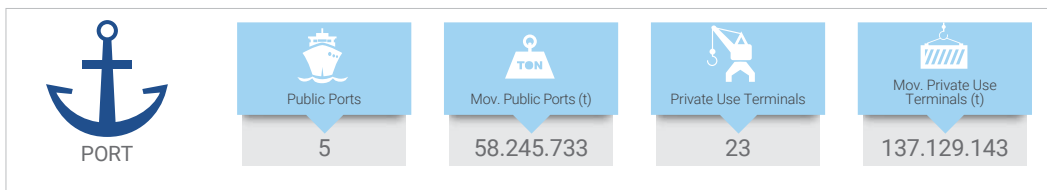
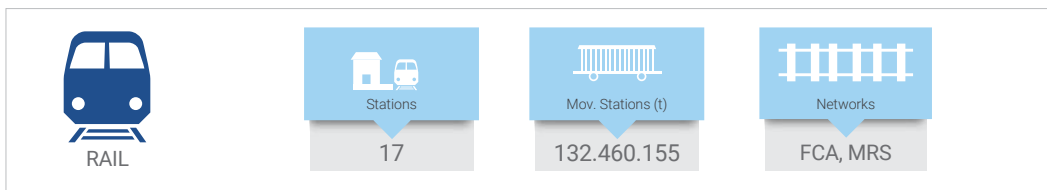
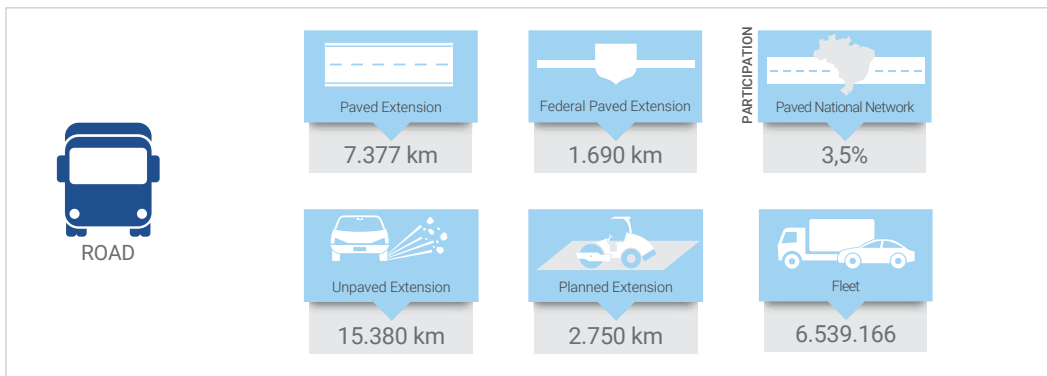
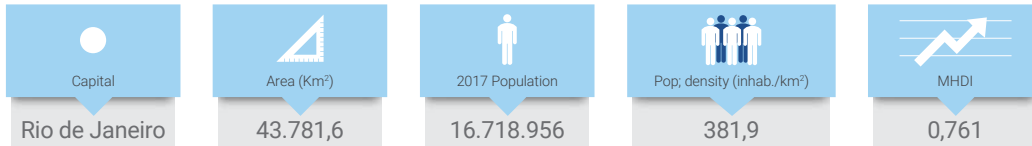
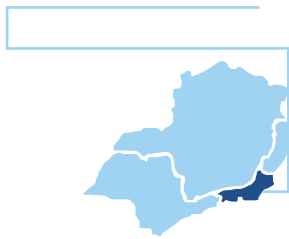
Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3619	Restoration of pavement on ES-080 from Cariacica to Santa Leopoldina	36,3 km	Cariacica, ES	Santa Leopoldina, ES
		3620	Restoration of pavement on ES-164 and ES-261 from Itaguaçu to Santa Teresa	28,4 km	Itaguaçu, ES	Santa Teresa, ES
		3621	Restoration of pavement on ES-137 from Nova Venécia to São Domingos do Norte	50,7 km	Nova Venécia, ES	São Domingos do Norte, ES
Terminal	Terminal construction	2843	Construction of parking lot for cargo vehicles in Greater Vitória Metropolitan Region	1 un	Vitória, ES	Vitória, ES

Nota: Não foi encontrada informação para a extensão do projeto 1899. Dessa forma, a Scale para o projeto foi estimada a partir do valor do investimento previsto.

Table 105 - Minimum Investment - Espírito Santo

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	305.953.720,03
Rail	Railway construction	363,5 km	5.080.178.282,61
	Elimination of bottlenecks	14 un	64.397.024,60
Port	Waterway access to port	8.522.326,9 m <sup>3</sup>	449.808.413,01
	Land access to port	4,0 km	476.692.276,19
	Port area	8 un	796.691.681,56
	Port construction	8 un	9.585.265.081,53
Road	Road adjustment	131,0 km	333.662.596,94
	Urban road adjustment	8,4 km	78.461.177,66
	Road construction	430,3 km	2.945.430.814,52
	Urban road construction	6,4 km	36.132.295,65
	Road duplication	229,6 km	2.654.196.002,56
	Implementation of express lane or BRT or RTM	24,0 km	1.381.913.310,59
	Paving of road	12,0 km	370.179.544,56
	Restoration of pavement on road	419,8 km	1.382.361.018,04
Terminal	Terminal construction	1 un	25.000.000,00
<b>Total</b>			<b>25.966.323.240,05</b>

### 7.3.3 RIO DE JANEIRO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway; MRS - MRS Logística.

Table 106 - List of projects - Rio de Janeiro

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1653	Expansion of Angra dos Reis Airport	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ
		1654	Expansion of runway and aircraft yard system and passenger terminal at Cabo Frio Airport	1 un	Cabo Frio, RJ	Cabo Frio, RJ
		1655	Expansion of Bartolomeu Lisandro Airport in Campo dos Goytacazes	1 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		1656	Restoration of Roberto Marinho airport in Jacarepaguá	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		1658	Expansion of Maricá Airport	1 un	Maricá, RJ	Maricá, RJ
		1659	Expansion of Resende Airport	1 un	Resende, RJ	Resende, RJ
		2981	Restoration of runway system at Macaé Airport	1 un	Macaé, RJ	Macaé, RJ
		2982	Runway repair at Macaé Airport	1 un	Macaé, RJ	Macaé, RJ
		2983	Restoration of passenger terminal at Itaperuna Airport	1 un	Itaperuna, RJ	Itaperuna, RJ
		2985	Restoration of runway system at Santos Dumont Airport in Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
	3400	Acquisition of fire engines for Jacarepaguá Airport	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ	
	Airport construction	1662	Construction of airport in Volta Redonda	1 un	Volta Redonda, RJ	Volta Redonda, RJ
Rail	Railway construction	1367	Construction of Rio de Janeiro-Vitória railway from Nova Iguaçu to São Francisco de Itabapoana	422,3 km	Nova Iguaçu, RJ	São Francisco de Itabapoana, RJ
		1447	Construction and remodeling of Goiânia-Rio de Janeiro railway from Comendador Levy Gasparian to Rio de Janeiro	205,2 km	Comendador Levy Gasparian, RJ	Rio de Janeiro, RJ
		1454	Construction of Uruçu-Campos railway from Itaperuna to São João da Barra	163,9 km	Itaperuna, RJ	São João da Barra, RJ
		1731	Construction of Macaé Rail Bypass	13,5 km	Macaé, RJ	Macaé, RJ



Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Railway construction	1732	Construction of Campos dos Goytacazes Rail Bypass	22,0 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
	Construction of metro or urban train	0917	Expansion of metro Line 4 extension in Rio de Janeiro	1,2 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3970	Expansion of metro Line 4 from Jardim Oceânico to Recreio in Rio de Janeiro	16,9 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		1048	Construction of LRT lines in Rio de Janeiro	28,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
	Construction of monorail or LRT or atmospheric railway	1050	Construction of Line 3 monorail from Niterói to São Gonçalo	22,0 km	Niterói, RJ	São Gonçalo, RJ
		1059	Construction of atmospheric railway line in Campos dos Goytacazes	13,0 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		1062	Construction of Centro-Valverde Line of atmospheric railway in Nova Iguaçu	7,9 km	Nova Iguaçu, RJ	Nova Iguaçu, RJ
		1068	Construction of LRT line in Macaé	23,0 km	Macaé, RJ	Macaé, RJ
		1069	Construction of LRT line in Nova Friburgo	16,0 km	Nova Friburgo, RJ	Nova Friburgo, RJ
		Construction of HSR	1366	Construction of Rio-São Paulo high-speed rail (HSR) from Resende to Rio de Janeiro	187,8 km	Resende, RJ
	Elimination of bottlenecks	1704	Removal of right of way intrusions in Barra do Piraí	3 un	Barra do Piraí, RJ	Barra do Piraí, RJ
		1763	Removal of level crossings in Barra do Piraí	2 un	Barra do Piraí, RJ	Barra do Piraí, RJ
		3012	Removal of level crossings in Itaguaí	3 un	Itaguaí, RJ	Itaguaí, RJ
		3014	Removal of level crossing in Mendes	1 un	Mendes, RJ	Mendes, RJ
		3016	Removal of level crossings in Paraíba do Sul	2 un	Paraíba do Sul, RJ	Paraíba do Sul, RJ
		3017	Removal of level crossings in Três Rios	4 un	Três Rios, RJ	Três Rios, RJ
		3019	Removal of level crossing in Valença	1 un	Valença, RJ	Valença, RJ

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3210	Removal of right of way intrusions in Paraíba do Sul	2 un	Paraíba do Sul, RJ	Paraíba do Sul, RJ
		3211	Removal of right of way intrusions in Três Rios	6 un	Três Rios, RJ	Três Rios, RJ
		3212	Removal of right of way intrusions in Campos dos Goytacazes	14 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		3213	Removal of right of way intrusion in Carapebus	1 un	Carapebus, RJ	Carapebus, RJ
		3214	Removal of right of way intrusions in Macaé	4 un	Macaé, RJ	Macaé, RJ
		3215	Removal of right of way intrusion in Casimiro de Abreu	1 un	Casimiro de Abreu, RJ	Casimiro de Abreu, RJ
		3216	Removal of right of way intrusion in Silva Jardim	1 un	Silva Jardim, RJ	Silva Jardim, RJ
		3217	Removal of right of way intrusions in Rio Bonito	4 un	Rio Bonito, RJ	Rio Bonito, RJ
		3218	Removal of right of way intrusion in Itaboraí	1 un	Itaboraí, RJ	Itaboraí, RJ
	Restoration of railway	1407	Restoration of rail link from Barra do Piraí to Itaguaí	90,0 km	Barra do Piraí, RJ	Itaguaí, RJ
		1408	Restoration of passenger train railway from Campos dos Goytacazes to Macaé	149,0 km	Campos dos Goytacazes, RJ	Macaé, RJ
		1409	Restoration of passenger train railway from Mangaratiba to Rio de Janeiro	49,0 km	Mangaratiba, RJ	Rio de Janeiro, RJ
		1457	Restoration of Iguatama-Barra Mansa rail link from Quatis to Barra Mansa	34,9 km	Quatis, RJ	Barra Mansa, RJ
		1764	Restoration of railway in Barra Mansa	5,8 km	Barra Mansa, RJ	Barra Mansa, RJ
		1922	Restoration of rail link from Barra Mansa to Angra dos Reis	108,0 km	Barra Mansa, RJ	Angra dos Reis, RJ
Waterway	Channel opening	1341	Channel opening on Jesuítas Queimados waterway to Rio de Janeiro	35,4 km	Queimados, RJ	Rio de Janeiro, RJ

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Waterway	Cargo riverboat	1277-INT	Construction of Simplicio sluice on Paraíba do Sul River waterway	1 un	Chiador, MG	Sapucaia, RJ	
		1273	Construction of the Funil sluice on the Paraíba do Sul River waterway	1 un	Resende, RJ	Itatiaia, RJ	
		1275	Construction of Itaocara sluice on Paraíba do Sul River waterway	1 un	Itaocara, RJ	Aperibé, RJ	
		1294	Construction of Barra do Pomba sluice on Paraíba do Sul River waterway	1 un	Itaocara, RJ	Cambuci, RJ	
		1295	Construction of Cambuci sluice on Paraíba do Sul River waterway	1 un	São Fidélis, RJ	Cambuci, RJ	
		1274-INT	Construction of Ilha dos Pombos sluice on the Paraíba do Sul River waterway	1 un	Carmo, RJ	Além Paraíba, MG	
Port	Waterway access to port	1920	Deepening of access channel and berths at Port of Angra dos Reis via dredging	8.349.526,2 m <sup>3</sup>	Angra dos Reis, RJ	Angra dos Reis, RJ	
		1992	Adjustment of waterway access to Port of Itaguaí	5.060.318,9 m <sup>3</sup>	Itaguaí, RJ	Itaguaí, RJ	
	Land access to port	0106	Adjustment and construction of access to Port of Rio de Janeiro by Via Alternativa	5,9 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ	
		3062	Construction and restoration of internal rail lines of Port of Rio de Janeiro	77,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ	
	Port area		1919	Construction of third berth and its back-up area at Port of Angra dos Reis	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ
			1921	Revitalization of port area at Port of Angra dos Reis	1 un	Angra dos Reis, RJ	Angra dos Reis, RJ
			1931	Adjustment of Grain Terminal at Porto do Forno in Arraial do Cabo	1 un	Arraial do Cabo, RJ	Arraial do Cabo, RJ
			1991	Construction of port logistics support area (AALP) at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	1995	Expansion of coal terminal at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		2060	Adjustment of Gamboa Pier at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3050	Implementation of VTMS at Port of Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		3058	Implementation of VTMS at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3060	Adjustment of liquid bulk cargo terminal at Port of Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
	Port construction	1996	Terminal construction de grãos no Porto de Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		1998	Terminal construction de granéis líquidos no Porto de Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		1999	Terminal construction exportador de placas de aço no Porto de Itaguaí	1 un	Itaguaí, RJ	Itaguaí, RJ
		2052	Construção do Porto de Barra do Furado em Campos dos Goytacazes e Quissamã	1 un	Campos dos Goytacazes, RJ	Quissamã, RJ
		2058	Construção do Porto da Ilha de Pombeba no Porto do Rio de Janeiro	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
Road	Road adjustment	2349	Implementation of additional lane on BR-354 in Resende	27,0 km	Resende, RJ	Resende, RJ
		2352	Implementation of additional lane on RJ-155/BR-494 from Rio Claro to Angra dos Reis	38,0 km	Rio Claro, RJ	Angra dos Reis, RJ
		3689	Implementation of signs on BR-040 and BR-101 in Rio de Janeiro	16,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3691	Implementation of signs on BR-493 from Duque de Caxias to Itaguaí	75,0 km	Duque de Caxias, RJ	Itaguaí, RJ
		3692	Construction of ramps on flyover between BR-101 and BR-493 in Itaguaí	1,0 km	Itaguaí, RJ	Itaguaí, RJ

Table 106 - List of projects - Rio de Janeiro

continuação

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3694	Construction of flyovers on cloverstack interchange on BR-101 leading to Santa Cruz Industrial District in Rio de Janeiro	1,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3696	Implementation of signs on BR-356 from Campos dos Goytacazes to São João da Barra	40,3 km	Campos dos Goytacazes, RJ	São João da Barra, RJ
		3697	Implementation of additional lane on RJ-165/BR-459 in Parati	12,0 km	Parati, RJ	Parati, RJ
		3698	Implementation of signs on RJ-155 from Barra Mansa to Rio Claro	20,6 km	Barra Mansa, RJ	Rio Claro, RJ
		3699	Implementation of signs on BR-465 from Seropédica to Rio de Janeiro	20,4 km	Seropédica, RJ	Rio de Janeiro, RJ
		3700	Implementation of signs on RJ-106 and RJ-140 / BR-120 from São Gonçalo to Arraial do Cabo	134,6 km	São Gonçalo, RJ	Arraial do Cabo, RJ
		3709	Implementation of additional lane on BR-495 from Teresópolis to Petrópolis	31,0 km	Teresópolis, RJ	Petrópolis, RJ
		3710	Implementation of signs on RJ-130 in Teresópolis	22,7 km	Teresópolis, RJ	Teresópolis, RJ
		3712	Implementation of additional lane on RJ-130 / BR-492 from Nova Friburgo to Teresópolis	36,0 km	Nova Friburgo, RJ	Teresópolis, RJ
		3715	Implementation of signs on RJ-158 and RJ-158/ BR-492 from Campos dos Goytacazes to São Fidélis	61,7 km	Campos dos Goytacazes, RJ	São Fidélis, RJ
	Urban road adjustment	1064	Adjustment of urban roads in Petrópolis	11,0 km	Petrópolis, RJ	Petrópolis, RJ
	Road construction	2303	Construction of Itaperuna Bypass on BR-356	12,5 km	Itaperuna, RJ	Itaperuna, RJ
	Road construction	3685	Construction of Itaboraí Bypass on BR-101	60,0 km	São Gonçalo, RJ	Rio Bonito, RJ

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road construction	3716	Construction of RJ-244 from Campos dos Goytacazes to São João da Barra	45,0 km	Campos dos Goytacazes, RJ	São João da Barra, RJ	
		3726	Construction of new lane on BR-116 in Serra das Araras from Paracambi to Pirai	9,0 km	Paracambi, RJ	Pirai, RJ	
	Urban road construction	0915	Expansion of Via Light from Queimados to Rio de Janeiro	17,5 km	Queimados, RJ	Rio de Janeiro, RJ	
		3517	Construction of Transbaixada from Rio de Janeiro to Duque de Caxias	25,0 km	Rio de Janeiro, RJ	Duque de Caxias, RJ	
	Road duplication	0072	Duplication of BR-101 in Campos dos Goytacazes	66,2 km	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ	
		0073	Duplication of BR-116 from Carmo to Teresópolis	91,8 km	Carmo, RJ	Teresópolis, RJ	
		0074	Duplication of BR-393 from Sapucaia to Volta Redonda	181,4 km	Sapucaia, RJ	Volta Redonda, RJ	
		2310	Duplication of BR-493 from Itaboraí to Magé	25,7 km	Itaboraí, RJ	Magé, RJ	
		2314	Duplication of BR-356 from Itaperuna to Cardoso Moreira	94,8 km	Itaperuna, RJ	Cardoso Moreira, RJ	
		2351	Duplication of BR-393 from Bom Jesus do Itabapoana to Santo Antônio de Pádua	102,2 km	Bom Jesus do Itabapoana, RJ	Santo Antônio de Pádua, RJ	
		2829	Duplication of BR-101 from Mangaratiba to Parati	182,9 km	Mangaratiba, RJ	Parati, RJ	
		3713	Duplication of RJ-116 / BR-492 from Itaocara to Nova Friburgo	103,5 km	Itaocara, RJ	Nova Friburgo, RJ	
		Implementation of express lane or BRT or RTM	0911	Implementation of TransBrasil BRT in Rio de Janeiro	32,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
			1054	Implantação do BRT TransOceânica em Niterói	9,3 km	Niterói, RJ	Niterói, RJ
	1058		Implantação de BRT de Niterói a Itaboraí	30,0 km	Niterói, RJ	Itaboraí, RJ	

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1065	Implementation of Arco de Centralidades Corridor in Volta Redonda	15,0 km	Volta Redonda, RJ	Volta Redonda, RJ
		2790	Implementation of BRT in São Gonçalo	20,0 km	São Gonçalo, RJ	São Gonçalo, RJ
		2791	Implementation of BRT in Duque de Caxias	41,0 km	Duque de Caxias, RJ	Duque de Caxias, RJ
		2793	Implementation of Via Light BRT from Nova Iguaçu to Rio de Janeiro	21,3 km	Nova Iguaçu, RJ	Rio de Janeiro, RJ
		3507	Implementation of BRT from São Gonçalo to Maricá	30,9 km	São Gonçalo, RJ	Maricá, RJ
		3509	Implementation of BRT on Presidente Dutra Highway from Nova Iguaçu to Rio de Janeiro	23,2 km	Nova Iguaçu, RJ	Rio de Janeiro, RJ
		3512	Implementation of BRT on Washington Luis Highway from Duque de Caxias to Rio de Janeiro	16,0 km	Duque de Caxias, RJ	Rio de Janeiro, RJ
		3518	Implementation of Transbaixada BRT from Rio de Janeiro to Duque de Caxias	25,0 km	Rio de Janeiro, RJ	Duque de Caxias, RJ
		3521	Implementation of BRT on Governador Mário Covas Highway from Niterói to Itaboraí	25,9 km	Niterói, RJ	Itaboraí, RJ
		2482	Restoration of pavement on RJ-104 from São Gonçalo to Niterói	10,7 km	São Gonçalo, RJ	Niterói, RJ
	Restoration of pavement on road	3688	Restoration of pavement on BR-101 in Rio de Janeiro	30,0 km	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3705	Restoration of pavement on RJ-158, RJ-144 and RJ-148 from Carmo to Nova Friburgo	72,7 km	Carmo, RJ	Nova Friburgo, RJ
		3714	Restoration of pavement on RJ-192 / BR-492 from São Fidélis to Itaocara	27,2 km	São Fidélis, RJ	Itaocara, RJ
	Terminal	Station Suitability	3402	Adjustment of metro train stations in the Rio de Janeiro Metropolitan Region	89 un	Belford Roxo, RJ

Table 106 - List of projects - Rio de Janeiro

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	0457	Construction of cargo waterway terminal in Campos dos Goytacazes	1 un	Campos dos Goytacazes, RJ	Campos dos Goytacazes, RJ
		0458	Construction of intermodal cargo terminal in Itaperuna	1 un	Itaperuna, RJ	Itaperuna, RJ
		2852	Construction of parking lot for cargo vehicles in Rio de Janeiro Metropolitan Region	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ
		3549	Construction of Caju Logistical and Industrial District	1 un	Rio de Janeiro, RJ	Rio de Janeiro, RJ

Note: No information was found for the extension of projects 1920 and 1992. Therefore, the project scale was estimated using the expected investment amount.

Table 107 - Minimum Investment - Rio de Janeiro

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	11 un	210.967.258,69
	Airport construction	1 un	113.188.290,04
Rail	Railway construction	826,9 km	14.207.643.785,21
	Construction of metro or urban train	18,1 km	8.789.379.823,57
	Construction of monorail or LRT or atmospheric railway	109,9 km	12.650.650.842,71
	Construction of HSR	187,8 km	32.926.126.413,68
	Elimination of bottlenecks	50 un	132.945.183,49
	Restoration of railway	436,7 km	2.188.995.331,41
Waterway	Channel opening	35,4 km	485.793.086,05
	Cargo riverboat	6 un	855.681.095,68
Port	Waterway access to port	13.409.845,1 m³	707.771.623,08
	Land access to port	82,9 km	543.744.954,83
	Port area	9 un	1.670.377.229,36
	Port construction	5 un	6.690.185.869,15



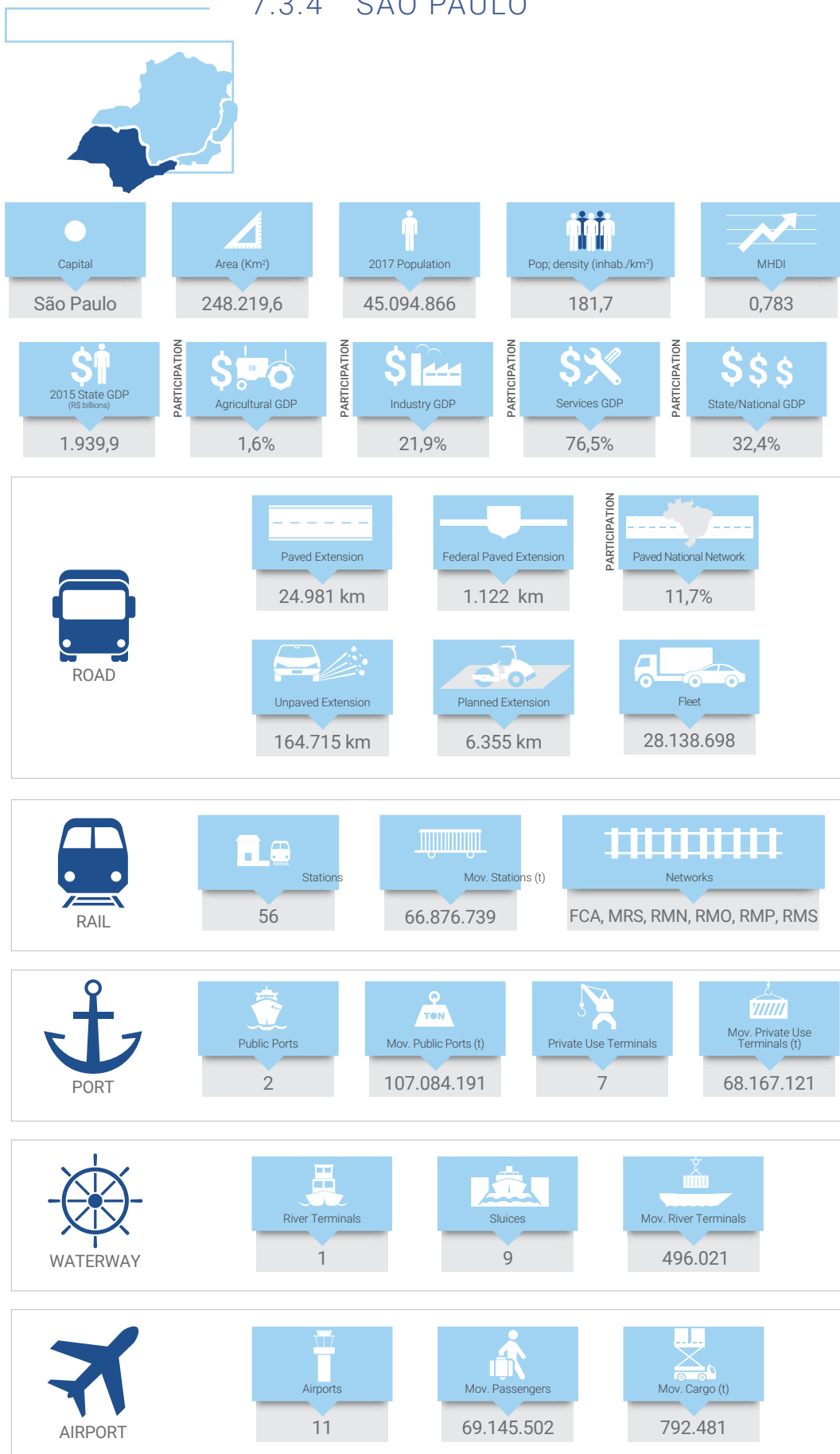
Tabela 107 - Investimento Mínimo - Rio de Janeiro

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Road adjustment	537,3 km	564.328.207,56
	Urban road adjustment	11,0 km	69.287.449,68
	Road construction	126,5 km	773.145.995,14
	Urban road construction	42,5 km	1.947.877.130,81
	Road duplication	848,5 km	9.771.594.996,21
	Implementation of express lane or BRT or RTM	289,6 km	6.888.000.268,66
	Restoration of pavement on road	140,6 km	462.982.275,21
Terminal	Station Suitability	89 un	1.464.744.131,94
	Terminal construction	4 un	203.586.867,22
<b>Total</b>			<b>104.318.998.109,38</b>



### 7.3.4 SÃO PAULO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Central Atlantic railway; MRS - MRS Logística; NMR - Rumo Malha Norte Network; RMO - Rumo Malha Oeste Network; RMP - Rumo Malha Paulista Network; RMS-Rumo Malha Sul Network.

Table 108 - List of projects - São Paulo

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1537	Expansion of passenger terminal and runway system at Dario Guarita State Airport in Araçatuba	1 un	Araçatuba, SP	Araçatuba, SP
		1539	Expansion and restoration of passenger terminal at Presidente Prudente Airport	1 un	Presidente Prudente, SP	Presidente Prudente, SP
		1628	Expansion of Campo de Marte Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1631	Expansion of terminal of Congonhas Airport Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		2872	Restoration of runway system at Congonhas Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		3001	Implementation of system at Sorocaba Airport	1 un	Sorocaba, SP	Sorocaba, SP
		3348	Expansion and restoration of runway at Mario Pereira Lopes State Airport in São Carlos	1 un	São Carlos, SP	São Carlos, SP
		3349	Expansion of passenger terminal and runway system at Leite Lopes Airport in Ribeirão Preto	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP
		3351	Restoration of runway system at Professor Urbano Ernesto Stumpf Airport in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP
		3352	Expansion of passenger terminal and aircraft yard at Professor Urbano Ernesto Stumpf Airport in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP
	3394	Acquisition of fire engines for Campo de Marte Airport in São Paulo	1 un	São Paulo, SP	São Paulo, SP	
	Airport construction	0621	Construction of Guarujá Airport	1 un	Guarujá, SP	Guarujá, SP
		1538	Construction of passenger terminal, runway and aircraft yard system at Miloye Milenkovich Airport in Marília	1 un	Marília, SP	Marília, SP
		1632	Construction of new airport in São Paulo Metropolitan Region	1 un	Caieiras, SP	Caieiras, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Implementation of waterway transportation corridor	3329	Implementation of São Paulo Metropolitan waterway transportation ring	186,0 km	Santana de Parnaíba, SP	Osasco, SP
Rail	Railway construction	0011	Construction of North section of São Paulo Rail Bypass	53,0 km	São Paulo, SP	Itaquaquecetuba, SP
		0036	Construction of South section of São Paulo Rail Bypass	55,0 km	São Paulo, SP	Rio Grande da Serra, SP
		1359	Construction of North-South Railway from Ouroeste to Estrela d'Oeste	66,4 km	Ouroeste, SP	Estrela d'Oeste, SP
		1360	Construction of the North-South Railway from Estrela d'Oeste to Panorama	264,0 km	Estrela d'Oeste, SP	Panorama, SP
		1389	Construction of the North-South Railway from Pirapozinho to Panorama	149,2 km	Pirapozinho, SP	Panorama, SP
		1734	Construction of branch line from Aparecida to Canas	35,5 km	Aparecida, SP	Canas, SP
		1735	Construction of branch line from Mirassol to Cedral	44,0 km	Mirassol, SP	Cedral, SP
		1736	Construction of Aguaí Rail Bypass	5,6 km	Aguaí, SP	Aguaí, SP
		1737	Construction of Ourinhos Rail Bypass	19,3 km	Ourinhos, SP	Ourinhos, SP
		3971	Construction of Inter-city Train from Pindamonhangaba to Sorocaba	264,6 km	Pindamonhangaba, SP	Sorocaba, SP
	Construction of metro or urban train	1012	Expansion of metro Line 4-Yellow extension from São Paulo to Taboão da Serra	7,0 km	São Paulo, SP	Taboão da Serra, SP
		1015	Expansion of metro Line 5-Lilac extension in São Paulo	11,5 km	São Paulo, SP	São Paulo, SP
		1017	Expansion of metro Line 2-Green extension from São Paulo to Guarulhos	14,4 km	São Paulo, SP	Guarulhos, SP
		1163	Construction of metro Line 6-Orange in São Paulo	13,5 km	São Paulo, SP	São Paulo, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Construction of metro or urban train	1183	Construction of metro Line 20-Rosa from São Paulo to São Bernardo do Campo	25,0 km	São Paulo, SP	São Bernardo do Campo, SP	
		1190	Expansion of Line 9-Emerald extension of the São Paulo metro	4,5 km	São Paulo, SP	São Paulo, SP	
		2776	Construction of metro ABC Express Line from São Paulo to Mauá	25,2 km	São Paulo, SP	Mauá, SP	
	Construction of monorail or LRT or atmospheric railway	1021	Construction of metro Line 17-Gold monorail in São Paulo	17,7 km	São Paulo, SP	São Paulo, SP	
		1024	Construction of Line 18-Bronze monorail from São Paulo to São Bernardo do Campo	15,4 km	São Paulo, SP	São Bernardo do Campo, SP	
		1175	Construction of metro Line 15-Silver monorail in São Paulo	26,7 km	São Paulo, SP	São Paulo, SP	
		1201	Construction of Baixada Santista LRT from São Vicente to Santos	27,0 km	São Vicente, SP	Santos, SP	
		Construction of HSR	1365	Construction of Rio-São Paulo high-speed rail (HSR) from Campinas to Queluz	323,0 km	Campinas, SP	Queluz, SP
			1466	Construction of Belo Horizonte - Curitiba high-speed rail (HSR) from São Sebastião da Gramma to Ribeira	556,3 km	São Sebastião da Gramma, SP	Ribeira, SP
		Railway duplication	0046	Duplication of rail route from Rio Grande da Serra to Jundiaí	97,9 km	Rio Grande da Serra, SP	Jundiaí, SP
	3061		Duplication of rail route from Itaquaquetuba to Suzano	12,1 km	Itaquaquetuba, SP	Suzano, SP	
	Elimination of bottlenecks	1687	Removal of right of way intrusion in Guarujá	1 un	Guarujá, SP	Guarujá, SP	
		1758	Removal of level crossing in Cerqueira César	1 un	Cerqueira César, SP	Cerqueira César, SP	
		3126	Removal of right of way intrusion in Queluz	1 un	Queluz, SP	Queluz, SP	
		3127	Removal of right of way intrusion in Lavrinhas	1 un	Lavrinhas, SP	Lavrinhas, SP	

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3128	Removal of right of way intrusion in Cruzeiro	1 un	Cruzeiro, SP	Cruzeiro, SP
		3129	Removal of right of way intrusions in Lorena	3 un	Lorena, SP	Lorena, SP
		3130	Removal of right of way intrusions in Guaratinguetá	5 un	Guaratinguetá, SP	Guaratinguetá, SP
		3131	Removal of right of way intrusions in Aparecida	2 un	Aparecida, SP	Aparecida, SP
		3132	Removal of right of way intrusion in Taubaté	1 un	Taubaté, SP	Taubaté, SP
		3133	Removal of right of way intrusion in Itaquaquetuba	1 un	Itaquaquetuba, SP	Itaquaquetuba, SP
		3134	Removal of right of way intrusion in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3135	Removal of right of way intrusions in Canitar	2 un	Canitar, SP	Canitar, SP
		3136	Removal of right of way intrusion in Chavantes	1 un	Chavantes, SP	Chavantes, SP
		3137	Removal of right of way intrusions in Avaré	3 un	Avaré, SP	Avaré, SP
		3138	Removal of right of way intrusions in Castilho	3 un	Castilho, SP	Castilho, SP
		3139	Removal of right of way intrusions in Andradina	2 un	Andradina, SP	Andradina, SP
		3140	Removal of right of way intrusions in Mirandópolis	2 un	Mirandópolis, SP	Mirandópolis, SP
		3141	Removal of right of way intrusions in Valparaíso	4 un	Valparaíso, SP	Valparaíso, SP
		3142	Removal of right of way intrusion in Guararapes	1 un	Guararapes, SP	Guararapes, SP
		3143	Removal of right of way intrusion in Birigui	1 un	Birigui, SP	Birigui, SP
3144	Removal of right of way intrusion in Coroados	1 un	Coroados, SP	Coroados, SP		
3145	Removal of right of way intrusions in Avanhandava	2 un	Avanhandava, SP	Avanhandava, SP		
3146	Removal of right of way intrusion in Presidente Alves	1 un	Presidente Alves, SP	Presidente Alves, SP		

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3147	Removal of right of way intrusion in Avaí	1 un	Avaí, SP	Avaí, SP
		3148	Removal of right of way intrusion in Bauru	1 un	Bauru, SP	Bauru, SP
		3149	Removal of right of way intrusion in Botucatu	1 un	Botucatu, SP	Botucatu, SP
		3150	Removal of right of way intrusion in Conchas	1 un	Conchas, SP	Conchas, SP
		3151	Removal of right of way intrusion in Pereiras	1 un	Pereiras, SP	Pereiras, SP
		3152	Removal of right of way intrusions in Sorocaba	2 un	Sorocaba, SP	Sorocaba, SP
		3153	Removal of right of way intrusions in Embu-Guaçu	2 un	Embu-Guaçu, SP	Embu-Guaçu, SP
		3154	Removal of right of way intrusions in Cubatão	4 un	Cubatão, SP	Cubatão, SP
		3155	Removal of right of way intrusion in Aguaí	1 un	Aguaí, SP	Aguaí, SP
		3156	Removal of right of way intrusions in Campinas	11 un	Campinas, SP	Campinas, SP
		3157	Removal of right of way intrusion in Votuporanga	1 un	Votuporanga, SP	Votuporanga, SP
		3158	Removal of right of way intrusions in Bálamo	2 un	Bálamo, SP	Bálamo, SP
		3159	Removal of right of way intrusions in São José do Rio Preto	6 un	São José do Rio Preto, SP	São José do Rio Preto, SP
		3160	Removal of right of way intrusion in Cedral	1 un	Cedral, SP	Cedral, SP
		3161	Removal of right of way intrusion in Uchoa	1 un	Uchoa, SP	Uchoa, SP
		3162	Removal of right of way intrusion in Catanduva	1 un	Catanduva, SP	Catanduva, SP
3163	Removal of right of way intrusion in Santa Ernestina	1 un	Santa Ernestina, SP	Santa Ernestina, SP		
3164	Removal of right of way intrusion in Araraquara	1 un	Araraquara, SP	Araraquara, SP		
3165	Removal of right of way intrusion in Ibaté	1 un	Ibaté, SP	Ibaté, SP		
3166	Removal of right of way intrusions in São Carlos	5 un	São Carlos, SP	São Carlos, SP		

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottleneck	3167	Removal of right of way intrusion in Santa Gertrudes	1 un	Santa Gertrudes, SP	Santa Gertrudes, SP
		3168	Removal of right of way intrusion in Cordeirópolis	1 un	Cordeirópolis, SP	Cordeirópolis, SP
		3169	Removal of right of way intrusion in Americana	1 un	Americana, SP	Americana, SP
		3170	Removal of right of way intrusion in Nova Odessa	1 un	Nova Odessa, SP	Nova Odessa, SP
		3171	Removal of right of way intrusions in Sumaré	2 un	Sumaré, SP	Sumaré, SP
		3172	Removal of right of way intrusion in Hortolândia	1 un	Hortolândia, SP	Hortolândia, SP
		3173	Removal of right of way intrusions in Valinhos	2 un	Valinhos, SP	Valinhos, SP
		3174	Removal of right of way intrusions in Vinhedo	2 un	Vinhedo, SP	Vinhedo, SP
		3175	Removal of right of way intrusions in Louveira	2 un	Louveira, SP	Louveira, SP
		3176	Removal of right of way intrusions in Jundiaí	3 un	Jundiaí, SP	Jundiaí, SP
		3300	Removal of level crossing in Itaquaquetuba	1 un	Itaquaquetuba, SP	Itaquaquetuba, SP
		3301	Removal of level crossings in Mogi das Cruzes	4 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3302	Removal of level crossing in Guararema	1 un	Guararema, SP	Guararema, SP
		3303	Removal of level crossings in Caçapava	3 un	Caçapava, SP	Caçapava, SP
		3304	Removal of level crossings in Pindamonhangaba	3 un	Pindamonhangaba, SP	Pindamonhangaba, SP
		3305	Removal of level crossing in Queluz	1 un	Queluz, SP	Queluz, SP
		3306	Removal of level crossing in Jales	1 un	Jales, SP	Jales, SP
		3307	Removal of level crossings in Fernandópolis	2 un	Fernandópolis, SP	Fernandópolis, SP
		3308	Removal of level crossing in Bálamo	1 un	Bálamo, SP	Bálamo, SP
		3309	Removal of level crossings in Catanduva	2 un	Catanduva, SP	Catanduva, SP



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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Rail	Elimination of bottleneck	3310	Removal of level crossing in Pindorama	1 un	Pindorama, SP	Pindorama, SP		
		3311	Removal of level crossing in Santa Ernestina	1 un	Santa Ernestina, SP	Santa Ernestina, SP		
		3312	Removal of level crossings in São Carlos	2 un	São Carlos, SP	São Carlos, SP		
		3313	Removal of level crossing in Itirapina	1 un	Itirapina, SP	Itirapina, SP		
		3315	Removal of level crossing in Americana	1 un	Americana, SP	Americana, SP		
		3317	Removal of level crossing in Hortolândia	1 un	Hortolândia, SP	Hortolândia, SP		
		3318	Removal of level crossing in Valinhos	1 un	Valinhos, SP	Valinhos, SP		
		3319	Removal of level crossing in Louveira	1 un	Louveira, SP	Louveira, SP		
		3320	Removal of level crossing in Bauru	1 un	Bauru, SP	Bauru, SP		
		3322	Removal of level crossing in Laranjal Paulista	1 un	Laranjal Paulista, SP	Laranjal Paulista, SP		
		3323	Removal of level crossings in Embu-Guaçu	3 un	Embu-Guaçu, SP	Embu-Guaçu, SP		
		3324	Removal of level crossings in Cubatão	5 un	Cubatão, SP	Cubatão, SP		
		3379	Removal of level crossing at Praça Sacadura Cabral in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP		
		Waterway	Waterway adjustment	2995-INT	Restoration of Corumbá-Santos railway from Castilho to Santos	1 un	Três Lagoas, MS	Castilho, SP
				3000-INT	Expansion of span and protection of pillars on Hélio Serejo Bridge on Paraná River waterway	1 un	Bataguassu, MS	Presidente Epitácio, SP
1432	Restoration of passenger train railway from São Paulo to Itapetininga			199,0 km	São Paulo, SP	Itapetininga, SP		
Waterway	Restoration of railway	1435	Restoration of Santos-Cuiabá railway from Santos to Rubinéia	856,6 km	Santos, SP	Rubinéia, SP		
		1439	Restoration of Corumbá-Santos railway from Castilho to Santos	642,0 km	Castilho, SP	Santos, SP		

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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	1335-INT	Signaling and beacon installation of waterways on Paranaíba and Paraná rivers from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR
		1338-INT	Adjustment of the Rio Grande waterway from São José da Barra to Ouroeste	773,0 km	São José da Barra, MG	Ouroeste, SP
		2977	Expansion of span and protection of pillars on SP-425 bridge on Tietê River	1 un	José Bonifácio, SP	Barbosa, SP
		3002	Dredging of Rio Piracicaba waterway from Piracicaba to Botucatu	66,0 km	Piracicaba, SP	Botucatu, SP
		3006	Protection of pillars on SP-333 bridge on Tietê River waterway	1 un	Novo Horizonte, SP	Pongaí, SP
		3007	Expansion of span on Jacaré Bridge on Tietê River waterway	1 un	Araçatuba, SP	Santo Antônio do Aracanguá, SP
		3008	Protection of pillars on SP-563 bridge on Tietê River waterway	1 un	Pereira Barreto, SP	Pereira Barreto, SP
		3009	Adjustment of span on SP-191 bridge on Tietê River waterway	1 un	Anhembi, SP	Botucatu, SP
		3023	Implementation of waterway traffic control system on waterways of Tietê, Piracicaba and Paraná rivers	1 un	São Paulo, SP	São Paulo, SP
		3031	Rock removal at Pedral de Nova Avanhandava on Tietê River waterway	9,3 km	Buritama, SP	Birigui, SP
		3032	Dredging of Anhembi Channel on Tietê River waterway	11,0 km	Anhembi, SP	Anhembi, SP
		3033	Adjustment of Botucatu Channel on Tietê River waterway	27,0 km	Anhembi, SP	Botucatu, SP
		3034	Adjustment of Ibitinga Channel on Tietê River waterway	0,1 km	Ibitinga, SP	Iacanga, SP
		3035	Adjustment of SP-425 approach channel on Tietê River waterway	3,2 km	José Bonifácio, SP	Barbosa, SP

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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	3056	Dredging of Conchas Channel on Tietê River waterway	21,0 km	Conchas, SP	Anhembi, SP
		2994-INT	Dredging of Paraná River waterway from Ilha Solteira to Foz do Iguaçu	732,0 km	Ilha Solteira, SP	Foz do Iguaçu, PR
		3048-INT	Dredging of Paranapanema River waterway from Ourinhos to São Pedro do Paraná	416,0 km	Ourinhos, SP	São Pedro do Paraná, PR
	Cargo riverboat	0202-INT	Duplication of Jupia sluce in Paraná River waterway	1 un	Três Lagoas, MS	Castilho, SP
		0208-INT	Construction of Ilha Solteira sluce on Paraná River waterway	1 un	Selvíria, MS	Ilha Solteira, SP
		1280-INT	Duplication of Porto Primavera sluce on Paraná River waterway	1 un	Batayporã, MS	Rosana, SP
		3074-INT	Modernization of Jupia sluce on Paraná River waterway	1 un	Três Lagoas, MS	Castilho, SP
		1268-INT	Construction of Água Vermelha sluce on Rio Grande waterway	1 un	Iturama, MG	Ouroeste, SP
		1269-INT	Construction of Estreito sluce on Rio Grande waterway	1 un	Sacramento, MG	Pedregulho, SP
		1270-INT	Construction of Marimbondo sluce on Rio Grande waterway	1 un	Fronteira, MG	Icém, SP
		1271-INT	Construction of Porto Colômbia sluce on Rio Grande waterway	1 un	Planura, MG	Guaíra, SP
		1272-INT	Construction of Volta Grande sluce on the Rio Grande waterway	1 un	Conceição das Alagoas, MG	Miguelópolis, SP
		1309-INT	Construction of Igarapava sluce on Rio Grande waterway	1 un	Conquista, MG	Igarapava, SP
		1310-INT	Construction of Jaguará sluce on Rio Grande waterway	1 un	Sacramento, MG	Rifaina, SP
		0213	Expansion of Promissão sluce on Tietê River waterway	1 un	Ubarana, SP	Promissão, SP

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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	0224	Expansion of Nova Avanhandava sluices on Tietê River waterway	2 un	Buritama, SP	Brejo Alegre, SP
		0233	Expansion of Bariri sluice on Tietê River waterway	1 un	Bariri, SP	Boracéia, SP
		0244	Expansion of Barra Bonita sluice on Tietê River waterway	1 un	Barra Bonita, SP	Igaraçu do Tietê, SP
		0256	Expansion of Ibitinga sluice on Tietê River waterway	1 un	Ibitinga, SP	Iacanga, SP
		1276	Construction of Santa Branca sluice on Paraíba do Sul River waterway	1 un	Jacaré, SP	Santa Branca, SP
		1684	Construction of Santa Maria da Serra sluice on Rio Piracicaba waterway	1 un	Santa Maria da Serra, SP	Anhembi, SP
		1685	Construction of Anhembi sluice on Tietê River waterway	1 un	Anhembi, SP	Anhembi, SP
		3011	Construction of waiting garages at Ibitinga sluice on Tietê River waterway	2 un	Ibitinga, SP	Iacanga, SP
		3013	Construction of waiting garages at Promissão sluice on Tietê River waterway	2 un	Promissão, SP	Ubarana, SP
		3015	Construction of waiting garages at Nova Avanhandava sluice on Tietê River waterway	2 un	Buritama, SP	Brejo Alegre, SP
		3018	Construction of waiting garages at Barra Bonita sluice on Tietê River waterway	2 un	Barra Bonita, SP	Igaraçu do Tietê, SP
		3020	Construction of waiting garages at Bariri sluice on Tietê River waterway	2 un	Bariri, SP	Boracéia, SP
		3021	Modernization of Três Irmãos sluice on Tietê River waterway	1 un	Pereira Barreto, SP	Andradina, SP
		3022	Expansion of Três Irmãos sluice on Tietê River waterway	2 un	Pereira Barreto, SP	Andradina, SP
		3027	Construction of Laranjal sluice on Tietê River waterway	1 un	Tietê, SP	Laranjal Paulista, SP

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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	3028	Construction of Tietê sluice on Tietê River waterway	1 un	Tietê, SP	Tietê, SP
		3029	Construction of Porto Feliz sluice on Tietê River waterway	1 un	Porto Feliz, SP	Porto Feliz, SP
		1285- INT	Construction of Canoas Sluice I on Paranapanema River waterway	1 un	Cândido Mota, SP	Itambaracá, PR
		1286- INT	Construction of Canoas Sluice II on Paranapanema River waterway	1 un	Palmital, SP	Andirá, PR
		1287- INT	Construction of Capivara sluice on Paranapanema River waterway	1 un	Taciba, SP	Porecatu, PR
		1288- INT	Construction of Rosana sluice on Paranapanema River waterway	1 un	Rosana, SP	Diamante do Norte, PR
		1289- INT	Construction of Taquaruçu sluice on Paranapanema River waterway	1 un	Sandovalina, SP	Itaguajé, PR
		3037- INT	Construction of Salto Grande sluice on Paranapanema River waterway	1 un	Salto Grande, SP	Cambará, PR
Port	Waterway access to port	0012	Dredging of access channel and mooring berth at Port of Santos	8.933.624,4 m <sup>3</sup>	Santos, SP	Santos, SP
	Land access to port	2098	Construction of Santos- Guarujá Underwater Tunnel at Port of Santos	6,2 km	Santos, SP	Guarujá, SP
		2827	Construction of Port- Industry Arterial Road at Port of Santos	11,2 km	Santos, SP	Santos, SP
		2860	Construction of flyover (65 km) and adjustment of Alemoa Flyover allowing access to Port Beltway on right bank of Port of Santos	3,0 km	Santos, SP	Santos, SP
		2863	Construction of Avenida Perimetral Direita at Port of Santos	9,0 km	Santos, SP	Santos, SP
		2865	Construction of Avenida Perimetral Esquerda at Port of Santos	4,0 km	Guarujá, SP	Guarujá, SP
		2869	Adjustment of road access to Barnabé Island in Port of Santos	3,3 km	Santos, SP	Santos, SP

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continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port area	2096	Construction of pier, berths and access bridge to Alamo Terminal at Port of Santos	1 un	Santos, SP	Santos, SP
		2101	Expansion and adjustment of Outeirinhos Pier at Port of Santos	1 un	Santos, SP	Santos, SP
		2104	Adjustment of pier at Barnabé Island in Port of Santos	1 un	Santos, SP	Santos, SP
		2867	Implementation of VTMS at Port of Santos	1 un	Santos, SP	Santos, SP
		2868	Implementation of Intelligent Port Logistics Chain (Portolog) at Port of Santos	1 un	Santos, SP	Santos, SP
		2871	Construction of port back-up area in Guarujá	1 un	Guarujá, SP	Guarujá, SP
	2957	Adjustment of liquid bulk cargo terminal on Barnabé Island at Port of Santos	1 un	Santos, SP	Santos, SP	
	Port construction	1964	Construction of terminal at Guarujá	1 un	Santos, SP	Santos, SP
		2099	Construction of port on left bank of Port of Santos	1 un	Santos, SP	Santos, SP
		2100	Construction of new liquid bulk cargo terminal at Port of Santos	1 un	Santos, SP	Santos, SP
2859		Construction of Port of Peruíbe	1 un	Peruíbe, SP	Peruíbe, SP	
Road	Road adjustment	2365	Implementation of signs on BR-459 from Piquete to Lorena	32,6 km	Piquete, SP	Lorena, SP
		2677	Implementation of additional lane on SP-563 / BR-158 from Tupi Paulista to Presidente Venceslau	49,0 km	Tupi Paulista, SP	Presidente Venceslau, SP
		3612	Implementation of signs on BR-101 in Ubatuba	52,2 km	Ubatuba, SP	Ubatuba, SP
		3613	Adjustment of crossing on BR-101 in Ubatuba	9,5 km	Ubatuba, SP	Ubatuba, SP
		3614	Implementation of signs on SP-055/BR-101 from Ubatuba to Caraguatatuba	49,1 km	Ubatuba, SP	Caraguatatuba, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3625	Adjustment of crossing on BR-153 in São José do Rio Preto	17,8 km	São José do Rio Preto, SP	São José do Rio Preto, SP
		3628	Implementation of signs on SP-461 / BR-154 and SP-461 from Nhandeara to Birigui	78,9 km	Nhandeara, SP	Birigui, SP
		3630	Implementation of signs on SP-310 / BR-262 from Nhandeara to Auriflana	46,3 km	Nhandeara, SP	Auriflana, SP
		3631	Implementation of additional lane on SP-310 / BR-262 and SP-563 / BR-262 from Auriflana to Andradina	54,0 km	Auriflana, SP	Andradina, SP
		3632	Implementation of additional lane on SP-310 / BR-456 from Nhandeara to Mirassol	40,0 km	Nhandeara, SP	Mirassol, SP
		3633	Implementation of signs on SP-294 from Parapuã to Tupi Paulista	97,8 km	Parapuã, SP	Tupi Paulista, SP
		3634	Implementation of signs on SP-310 from Pereira Barreto to Ilha Solteira	21,3 km	Pereira Barreto, SP	Ilha Solteira, SP
		3635	Implementation of signs on SP-563 from Tupi Paulista to Andradina	65,4 km	Tupi Paulista, SP	Andradina, SP
		3651	Implementation of signs on SP-425 from Presidente Prudente to Pirapozinho	69,1 km	Presidente Prudente, SP	Pirapozinho, SP
		3652	Implementation of signs on SP-425 and SP-425 / BR-267 from José Bonifácio to Parapuã	154,6 km	José Bonifácio, SP	Parapuã, SP
		3657	Implementation of signs on BR-383 from Campos do Jordão to Pindamonhangaba	21,4 km	Campos do Jordão, SP	Pindamonhangaba, SP
		3658	Implementation of additional lane on SP-125 / BR-383 from Taubaté to Ubatuba	20,0 km	Taubaté, SP	Ubatuba, SP
		3664	Implementation of signs on SP-098 from Mogi das Cruzes to Bertioga	41,3 km	Mogi das Cruzes, SP	Bertioga, SP
		3666	Implementation of signs on SP-270 from Itaí to Ipaussu	68,1 km	Itaí, SP	Ipaussu, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3667	Implementation of signs on SP-304 from Santa Barbara d'Oeste to Piracicaba	17,5 km	Santa Bárbara d'Oeste, SP	Piracicaba, SP
		3668	Implementation of signs on SP-320 from Mirassol to Rubinéia	185,7 km	Mirassol, SP	Rubinéia, SP
		3672	Implementation of signs on SP-463 from Clementina to Bilac	21,3 km	Clementina, SP	Bilac, SP
	Road adjustment	3675	Implementation of signs on SP-463 from Jales to Ouroeste	43,8 km	Jales, SP	Ouroeste, SP
		3676	Implementation of signs on SP-595 from Ilha Solteira to Três Fronteiras	57,0 km	Ilha Solteira, SP	Três Fronteiras, SP
		3677	Implementation of signs on SPA-074, SP-613 and SPA-079 in Rosana	22,4 km	Rosana, SP	Rosana, SP
		3679	Construction of bridge on SP-147 over Tietê River in Anhembi	0,2 km	Anhembi, SP	Anhembi, SP
		3680	Construction of bridge on SP-191 over Tietê River from Anhembi to Botucatu	1,0 km	Anhembi, SP	Botucatu, SP
		Urban road adjustment	0891	Construction of tunnel on Avenida Roberto Marinho in São Paulo	2,4 km	São Paulo, SP
	0892		Construction of Sena Madureira Interchange in São Paulo	1,9 km	São Paulo, SP	São Paulo, SP
	0893		Construction of tunnel on Avenida Lineu de Paula Machado in São Paulo	1,6 km	São Paulo, SP	São Paulo, SP
	Road construction	3380	Construction of rail overpass in Ribeirão Pires	2,7 km	Ribeirão Pires, SP	Ribeirão Pires, SP
		0923	Construction of SPT-101 / BR-101 from Iguape to Cananéia	76,6 km	Iguape, SP	Cananéia, SP
		0925	Construction of BR-272 from Itapetininga to Taquarituba	142,3 km	Itapetininga, SP	Taquarituba, SP
		1241	Construction of São Paulo North Ring Road	44,0 km	São Paulo, SP	Arujá, SP



Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	0099	Duplication of BR-153 road from José Bonifácio to Ourinhos	216,0 km	José Bonifácio, SP	Ourinhos, SP
		2366	Duplication of SP-097 / BR-478 and SP-079 / BR-478 from Porto Feliz to Juquiá	139,5 km	Porto Feliz, SP	Juquiá, SP
		2678	Duplication of SP-127 / BR-373 and SP-250 / BR-373 from Capão Bonito to Ribeira	131,3 km	Capão Bonito, SP	Ribeira, SP
		3618	Duplication of SP-055/BR-101 from Bertioga to Santos	33,6 km	Bertioga, SP	Santos, SP
		3624	Duplication of BR-153 from Icém to São José do Rio Preto	49,3 km	Icém, SP	São José do Rio Preto, SP
		3648	Duplication of SP-351 / BR-265 from Santo Antônio da Alegria to Batatais	53,0 km	Santo Antônio da Alegria, SP	Batatais, SP
		3650	Duplication of SP-322 / BR-265 and SP-425 / BR-265 from Bebedouro to Guapiaçu	84,9 km	Bebedouro, SP	Guapiaçu, SP
		3653	Duplication of SP-322 / BR-265 and SP-425 / BR-265 from Bebedouro to Guapiaçu	73,5 km	Águas da Prata, SP	Santa Cruz das Palmeiras, SP
		3654	Duplication of SP-350 / BR-369 from São José do Rio Pardo to Casa Branca	23,5 km	São José do Rio Pardo, SP	Casa Branca, SP
		3943	Duplication of SP-255 and SP-281 from Araraquara to Itararé	271,2 km	Araraquara, SP	Itararé, SP
	Implementation of express lane or BRT or RTM	1244	Implementation of Radial Leste BRT in São Paulo	28,8 km	São Paulo, SP	São Paulo, SP
		1246	Implementation of Leste Itaquera Corridor in São Paulo	14,0 km	São Paulo, SP	São Paulo, SP
		1247	Implementation of Leste Aricanduva Corridor in São Paulo	14,0 km	São Paulo, SP	São Paulo, SP
		1249	Implementation of Capão Redondo-Vila Sônia Corridor in São Paulo	12,1 km	São Paulo, SP	São Paulo, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1254	Implementation of Carlos Caldeira Filho Corridor in São Paulo	3,5 km	São Paulo, SP	São Paulo, SP
		2777	Implementation of Councilor Biléo Soares Metropolitan Corridor from Nova Odessa to Santa Bárbara d'Oeste	24,3 km	Nova Odessa, SP	Santa Bárbara d'Oeste, SP
		2778	Implementation of East Metropolitan Beltway BRT from São Paulo to Guarulhos	26,7 km	São Paulo, SP	Guarulhos, SP
		2779	Implementation of Itapevi-Cotia Metropolitan BRT	9,4 km	Itapevi, SP	Cotia, SP
		2780	Implementation of Alphaville-Cajamar Metropolitan BRT from Barueri to Cajamar	28,9 km	Barueri, SP	Cajamar, SP
		2781	Implementation of Alto Tietê Metropolitan Beltway BRT from Arujá to Ferraz de Vasconcelos	19,8 km	Arujá, SP	Ferraz de Vasconcelos, SP
		2782	Implementation of Guarulhos-São Paulo (Tucuruvi) Metropolitan Corridor	31,0 km	São Paulo, SP	Guarulhos, SP
		2783	Implementation of sections 2, 3 and 4 of Itapevi-São Paulo Metropolitan Corridor from Jandira to São Paulo	18,6 km	Jandira, SP	São Paulo, SP
		2784	Implementation of Embu-Guaçu-Varginha Metropolitan Corridor from Embu-Guaçu to São Paulo	17,0 km	São Paulo, SP	Embu-Guaçu, SP
		2785	Implementation of Raposo Tavares Metropolitan Corridor from Cotia to São Paulo	27,0 km	Cotia, SP	São Paulo, SP
2786	Implementation of Itapecirica-São Paul (Vila Sônia) Metropolitan Corridor from Itapecirica da Serra to São Paulo	25,0 km	Itapecirica da Serra, SP	São Paulo, SP		
2787	Implementation of Itapecirica-São Paulo Metropolitan Corridor from Itapecirica da Serra to São Paulo	12,0 km	Itapecirica da Serra, SP	São Paulo, SP		

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	2788	Implementation of Anhanguera Metropolitan Corridor from Cajamar to São Paulo	31,0 km	Cajamar, SP	São Paulo, SP
		2789	Implementation of East Metropolitan Corridor from Mogi das Cruzes to São Paulo	32,0 km	Mogi das Cruzes, SP	São Paulo, SP
		3350	Implementation of M'Boi Mirim-Cachoeirinha Corridor in São Paulo	5,5 km	São Paulo, SP	São Paulo, SP
		3370	Implementation of East-West Corridor in São Bernardo do Campo	13,0 km	São Bernardo do Campo, SP	São Bernardo do Campo, SP
		3371	Implementation of preferential bus lanes in Rio Grande da Serra	15,0 km	Rio Grande da Serra, SP	Rio Grande da Serra, SP
		3375	Implementation of preferential bus lanes in São José do Rio Preto	42,0 km	São José do Rio Preto, SP	São José do Rio Preto, SP
		3376	Implementation of preferential bus lanes in Piracicaba	29,5 km	Piracicaba, SP	Piracicaba, SP
		3377	Implementation of preferential bus lanes in Praia Grande	21,8 km	Praia Grande, SP	Praia Grande, SP
		3378	Implementation of preferential bus lanes in Santos	18,0 km	Santos, SP	Santos, SP
		3381	Implementation of BRTs in Campinas	36,6 km	Campinas, SP	Campinas, SP
		3382	Implementation of East-West Corridor in Mogi das Cruzes	15,8 km	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		3383	Implementation of preferential bus lane in Osasco	4,7 km	Osasco, SP	Osasco, SP
		3384	Implementation of preferential bus lanes in Mauá	26,0 km	Mauá, SP	Mauá, SP
		3385	Implementation of BRT in São José dos Campos	51,2 km	São José dos Campos, SP	São José dos Campos, SP
		3387	Implementation of BRT in Sorocaba	35,1 km	Sorocaba, SP	Sorocaba, SP
3397	Implementation of BRT in Jundiaí	4,5 km	Jundiaí, SP	Jundiaí, SP		

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	3399	Implementation of preferential bus lanes in Ribeirão Preto	56,0 km	Ribeirão Preto, SP	Ribeirão Preto, SP
		3523	Implementation of preferential bus lanes in Guarulhos	12,3 km	Guarulhos, SP	Guarulhos, SP
		3626	Implementation of preferential bus lanes in Diadema	12,0 km	Diadema, SP	Diadema, SP
		3629	Implementation of preferential bus lanes in São Bernardo do Campos	42,0 km	São Bernardo do Campo, SP	São Bernardo do Campo, SP
	Restoration of pavement on road	0792	Restoration of pavement on SP-350 from São João do Rio Pardo to Tapiratiba	27,3 km	São José do Rio Pardo, SP	Tapiratiba, SP
		3617	Restoration of pavement on SP-055 / BR-101 from Caraguatatuba to Bertioga	112,6 km	Caraguatatuba, SP	Bertioga, SP
		3627	Restoration of pavement on SP-461 / BR-154 from Votuporanga to Nhandeara	32,8 km	Votuporanga, SP	Nhandeara, SP
		3655	Restoration of pavement on SP-326/BR-364 road from Barretos to Colômbia	42,1 km	Barretos, SP	Colômbia, SP
		3665	Restoration of pavement on SP-270 from Itapetininga to Itaí	112,2 km	Itapetininga, SP	Itaí, SP
		Terminal	Station Suitability	1192	Adjustment of metro stations on Line 8-Diamond from Jandira to São Paulo	12 un
1193	Adjustment of metro stations on Line 7-Ruby from Jundiaí to São Paulo			15 un	Jundiaí, SP	São Paulo, SP
1194	Adjustment of metro stations on Line 12-Sapphire in Itaquaquecetuba			3 un	Itaquaquecetuba, SP	Itaquaquecetuba, SP
1195	Adjustment of metro stations on Line 11-Coral from São Paulo to Mogi das Cruzes			8 un	São Paulo, SP	Mogi das Cruzes, SP
1198	Adjustment of metro stations on Line 10-Turquoise from São Paulo to Rio Grande da Serra			11 un	São Paulo, SP	Rio Grande da Serra, SP

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal adjustment	0544	Expansion of the intermodal freight terminal in Pederneiras	1 un	Pederneiras, SP	Pederneiras, SP
		0546	Adjustment of Santa Fé do Sul rail freight terminal	1 un	Santa Fé do Sul, SP	Santa Fé do Sul, SP
		3251	Expansion of waterway cargo terminal in Araçatuba	1 un	Araçatuba, SP	Araçatuba, SP
	Station construction	1185	Construction of metro stations on Line 20-Pink from São Paulo to São Bernardo do Campo	25 un	São Paulo, SP	São Bernardo do Campo, SP
		1197	Construction of União Vila Nova metro station on Line 12-Sapphire in São Paulo	1 un	São Paulo, SP	São Paulo, SP
	Terminal construction	0535	Construction of waterway cargo terminal in Pereira Barreto	1 un	Pereira Barreto, SP	Pereira Barreto, SP
		0536	Construction of waterway cargo terminal in Rosana	1 un	Rosana, SP	Rosana, SP
		0539	Construction of rail freight terminal in Colômbia	1 un	Colômbia, SP	Colômbia, SP
		0541	Construction of intermodal freight terminal in Igarapava	1 un	Igarapava, SP	Igarapava, SP
		0543	Construction of intermodal freight terminal in Panorama	1 un	Panorama, SP	Panorama, SP
		0547	Construction of waterway cargo terminal in Tietê	1 un	Tietê, SP	Tietê, SP
		0548	Construction of cargo terminal in Franca	1 un	Franca, SP	Franca, SP
		1834	Construction of waterway cargo terminal in Buritama	1 un	Buritama, SP	Buritama, SP
		1835	Construction of waterway cargo terminal in Ibitinga	1 un	Ibitinga, SP	Ibitinga, SP
		1838	Construction of waterway cargo terminal in Ubarana	1 un	Ubarana, SP	Ubarana, SP
		1839	Construction of waterway cargo terminal in Sabino	1 un	Sabino, SP	Sabino, SP
	1840	Construction of waterway cargo terminal in Piracicaba	1 un	Piracicaba, SP	Piracicaba, SP	

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1841	Construction of waterway cargo terminal in Paulínia	1 un	Paulínia, SP	Paulínia, SP
		1843	Construction of waterway cargo terminal in Novo Horizonte	1 un	Novo Horizonte, SP	Novo Horizonte, SP
		1865	Construction of intermodal cargo terminal in Rubinéia	1 un	Rubinéia, SP	Rubinéia, SP
		1866	Construction of intermodal cargo terminal in Salto	1 un	Salto, SP	Salto, SP
		2155	Construction of logistics platform in Mogi das Cruzes	1 un	Mogi das Cruzes, SP	Mogi das Cruzes, SP
		2441	Construction of waterway cargo terminal in Artemis in Piracicaba	1 un	Piracicaba, SP	Piracicaba, SP
		2448	Construction of logistics platform in São José do Rio Preto	1 un	São José do Rio Preto, SP	São José do Rio Preto, SP
		2449	Construction of logistics platform in Ribeirão Preto	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP
		2450	Construction of logistics platform in Bauru	1 un	Bauru, SP	Bauru, SP
		2451	Construction of logistics platform in Campinas	1 un	Campinas, SP	Campinas, SP
		2452	Construction of logistics platform in Sorocaba	1 un	Sorocaba, SP	Sorocaba, SP
		2453	Construction of logistics platform in Franco da Rocha	1 un	Franco da Rocha, SP	Franco da Rocha, SP
		2454	Construction of logistics platform in São José dos Campos	1 un	São José dos Campos, SP	São José dos Campos, SP
		2838	Construction of parking lot for cargo vehicles in Campinas Metropolitan Region	1 un	Campinas, SP	Campinas, SP
		2849	Construction of parking lot for cargo vehicles in São Paulo Metropolitan Region in the city of São Paulo	1 un	São Paulo, SP	São Paulo, SP
2850	Construction of parking lot for cargo vehicles in São Paulo Metropolitan Region in the city of Guarulhos	1 un	Guarulhos, SP	Guarulhos, SP		

Table 108 - List of projects - São Paulo

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	2851	Construction of parking for cargo vehicles in Baueri in São Paulo Metropolitan Region	1 un	Barueri, SP	Barueri, SP
		3220	Construction of logistics platform in Taubaté	1 un	Taubaté, SP	Taubaté, SP
		3224	Construction of logistics platform in Limeira	1 un	Limeira, SP	Limeira, SP
		3410	Construction of parking for cargo vehicles in Sorocaba Metropolitan Region	1 un	Sorocaba, SP	Sorocaba, SP
		3411	Construction of parking lot for cargo vehicles in Baixada Santista Metropolitan Region	1 un	Santos, SP	Santos, SP
		3412	Construction of parking lot for cargo vehicles in Ribeirão Preto Metropolitan Region	1 un	Ribeirão Preto, SP	Ribeirão Preto, SP
		3414	Construction of parking lot for cargo vehicles in Piracicaba Urban Area	1 un	Piracicaba, SP	Piracicaba, SP
		3418	Construction of parking lot for cargo vehicles in Paraíba Valley and North Coast Metropolitan Region	1 un	São José dos Campos, SP	São José dos Campos, SP
	Terminal construction - Urban	1256	Construction of Itaquera Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1257	Construction of new Jardim Ângela Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		1259	Construction of Perus Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP
		2834	Construction of new Parelheiros Terminal in São Paulo	1 un	São Paulo, SP	São Paulo, SP

Table 109 - Minimum Investment - São Paulo

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	11 un	434.152.039,55
	Airport construction	3 un	12.213.568.542,15
Waterway	Implementation of waterway transportation corridor	186,0 km	3.918.750.000,00
Rail	Railway construction	956,6 km	15.993.593.117,21
	Construction of metro or urban train	101,1 km	42.435.497.300,78
	Construction of monorail or LRT or atmospheric railway	86,8 km	15.823.235.309,86
	Construction of HSR	879,3 km	93.624.328.521,34
	Railway duplication	110,0 km	1.073.025.191,02
	Elimination of bottlenecks	141,0 km	737.983.784,82
	Restoration of railway	1.697,6 km	10.312.097.951,68
Waterway	Waterway adjustment	3.017,6 km	3.330.130.826,95
		8 un	344.477.486,95
	Cargo riverboat	42 un	29.574.237.393,69
Port	Waterway access to port	8.933.624,4 m³	521.463.956,11
	Land access to port	36,7 km	11.740.317.749,04
	Port area	7 un	721.941.473,59
	Port construction	4 un	19.661.742.058,82
Road	Road adjustment	1.337,3 km	1.634.078.641,53
	Urban road adjustment	8,6 km	3.686.830.122,69
	Road construction	262,9 km	7.005.224.955,07
	Road duplication	1.075,8 km	12.434.716.977,55
	Implementation of express lane or BRT or RTM	816,1 km	13.249.762.843,81
	Restoration of pavement on road	327,0 km	1.076.779.544,77
Terminal	Station Suitability	49 un	1.581.239.534,37
	Terminal adjustment	3 un	142.878.921,33
	Station construction	26 un	4.727.318.750,00
	Terminal construction	36 un	2.465.340.160,58
	Terminal construction - Urban	4 un	1.041.001.954,40
<b>Total</b>			<b>311.505.715.109,67</b>

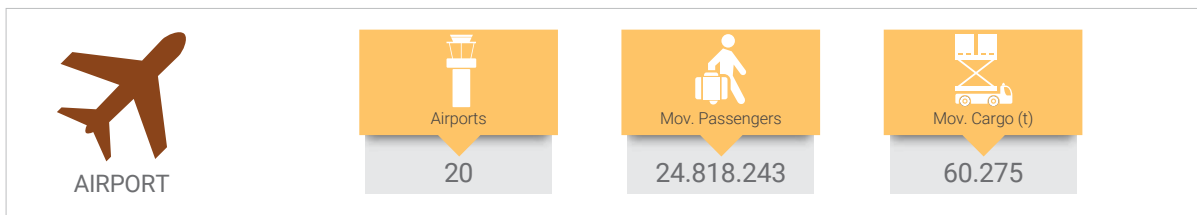
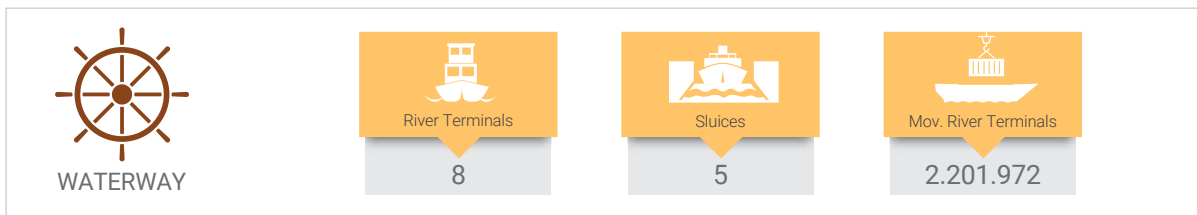
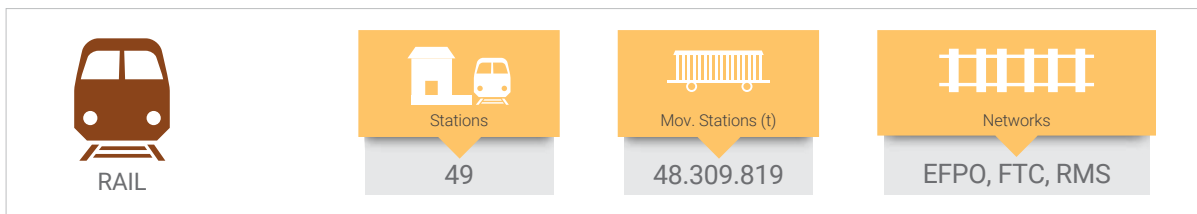
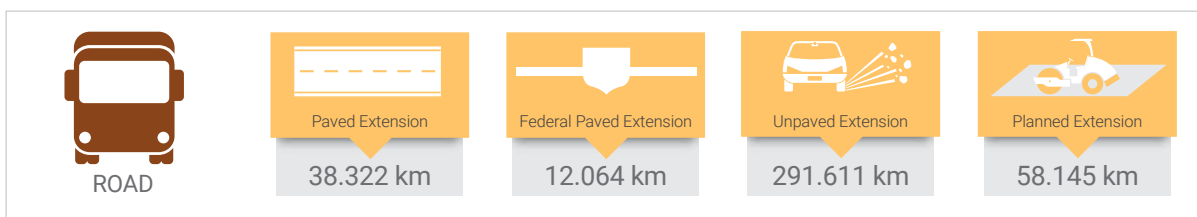
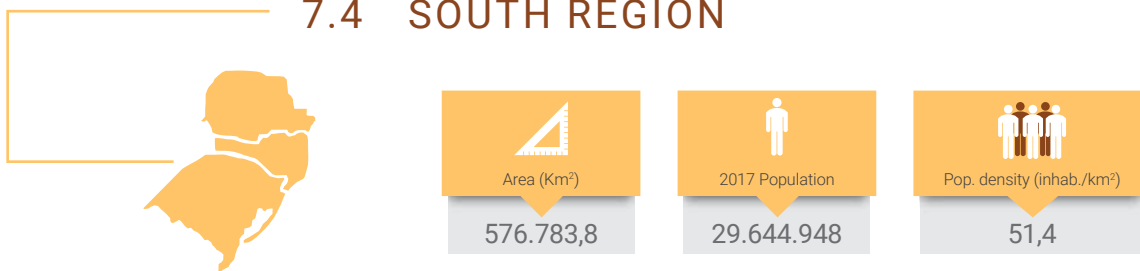


# REGIÃO SUL



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## 7.4 SOUTH REGION



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EFPO - Paraná West Railway, FTC - Tereza Cristina railway, RMS - Rumo Malha Sul Network.

Table 110 - Number of interventions and minimum investment required, by Corridor, for the South Region

Corridor	Airport	Waterway	Rail	Waterway	Port	Road	Terminal	Total	Minimum Investment (R\$)
E1	10	-	83	-	1	73	13	180	94.749.354.431,15
E2	18	-	23	17	-	48	29	135	41.553.811.517,29
E3	7	-	8	25	-	63	12	115	82.203.041.646,17
E4	-	-	-	-	-	-	-	-	-
E5	1	-	-	-	-	-	-	1	4.394.217,62
E6	-	-	-	-	-	-	-	-	-
E7	-	-	-	-	-	-	-	-	-
E8	-	-	-	-	-	-	-	-	-
E9	-	-	-	-	69	-	-	69	30.091.292.913,01
U	-	-	5	-	-	47	2	54	32.464.902.105,92
<b>Total</b>	<b>36</b>	<b>-</b>	<b>119</b>	<b>42</b>	<b>70</b>	<b>231</b>	<b>56</b>	<b>554</b>	<b>281.066.796.831,16</b>

Table 111 - Minimum Investment - South Region

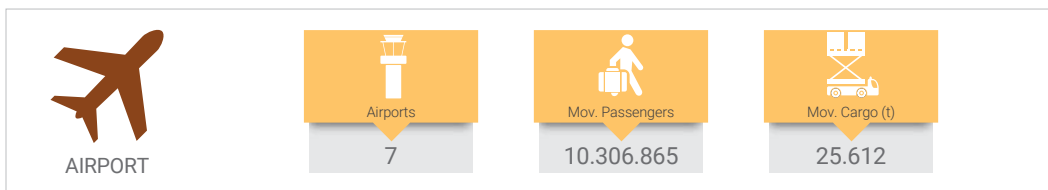
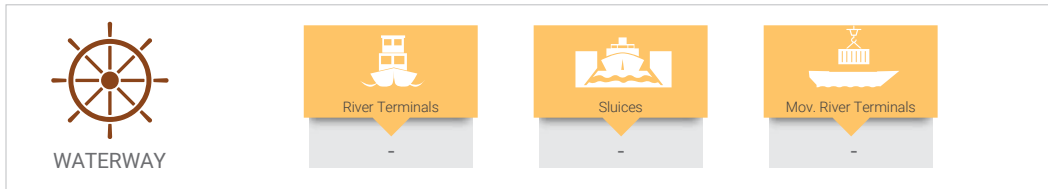
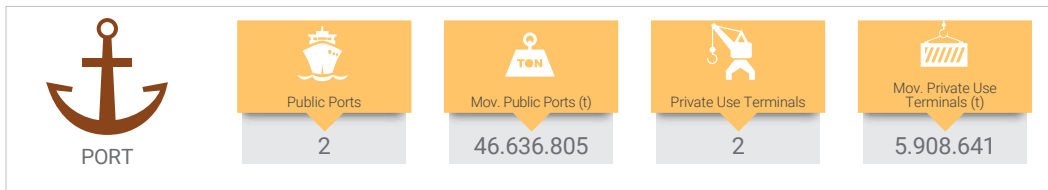
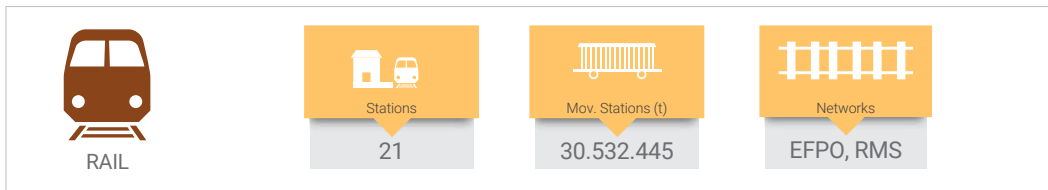
Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	31 un	5.255.233.998,34
	Airport construction	5 un	3.019.893.897,47
Rail	Acquisition and improvement of rolling stock	15 un	61.281.093,07
	Railway construction	5.652,6 km	76.450.352.693,81
	Construction of metro or urban train	47,9 km	19.913.867.911,53
	Construction of monorail or LRT or atmospheric railway	18,0 km	971.504.136,35
	Construction of HSR	104,1 km	6.923.977.000,89
	Railway duplication	107,8 km	1.051.564.687,20
	Elimination of bottlenecks	134 un	372.653.124,68
	Restoration of railway	4.541,5 km	23.027.447.556,17
Waterway	Channel opening	3,8 km	229.009.151,54
	Waterway adjustment	4.588,0 km	1.387.253.330,75
		6 un	496.186.495,01
	Cargo riverboat	19 un	16.056.890.372,19

Table 111 - Minimum Investment - South Region

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Port	Waterway access to port	63.937.742,7 m³	2.219.215.481,62
	Land access to port	104,9 km	1.563.267.113,07
	Port area	51 un	6.057.792.001,42
	Port construction	14 un	20.290.263.661,52
Road	Adjustment of express lane or BRT or RTM	129,3 km	4.349.230.266,84
		1 un	27.135.948,91
	Road adjustment	4.928,5 km	12.601.522.101,91
	Urban road adjustment	46,3 km	393.747.974,74
	Road construction	909,3 km	5.038.093.081,54
	Urban road construction	88,1 km	2.064.597.530,26
	Road duplication	4.830,7 km	53.930.506.036,13
	Duplication of urban road	4,3 km	229.357.896,06
	Implementation of express lane or BRT or RTM	351,7 km	4.235.771.911,46
	Paving of road	180,6 km	904.864.933,40
	Restoration of pavement on road	2.276,4 km	7.495.966.225,39
	Terminal	Terminal adjustment	6 un
Terminal adjustment - Urban		1 un	7.743.392,52
Terminal construction		48 un	4.103.464.575,43
Terminal construction - Urban		5 un	210.664.044,18
<b>Total</b>			<b>281.066.796.831,16</b>

### 7.4.1 PARANÁ



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: EPO - Paraná West Railway; RMS - Rumo Malha Sul Network.



Table 112 - List of projects - Paraná

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0622	Expansion of passenger terminal and runway and aircraft yard system at Governador José Richa Airport in Londrina	1 un	Londrina, PR	Londrina, PR
		1512	Implementation of 3rd runway at Afonso Pena (Curitiba) Airport in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
		1530	Expansion of runway system at Sílvio Name Júnior Airport in Maringá	1 un	Maringá, PR	Maringá, PR
		1615	Restoration of Bacacheri Airport in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		1616	Restoration of Afonso Pena (Curitiba) Airport in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
		1620	Restoration of Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		2971	Restoration of runway system at Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		2972	Runway repair at Cataratas Airport in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		2979	Runway repair at Afonso Pena (Curitiba) Airport in São José dos Pinhais	1 un	São José dos Pinhais, PR	São José dos Pinhais, PR
	3026	Repair of runway at Governador José Richa Airport in Londrina	1 un	Londrina, PR	Londrina, PR	
	Airport construction	1528	Construction of passenger terminal at Adalberto Mendes da Silva Airport in Cascavel	1 un	Cascavel, PR	Cascavel, PR
		1622	Construção de novo aeroporto em Londrina	1 un	Londrina, PR	Londrina, PR
	Rail	Railway construction	0017	Construction of rail link from Guarapuava to Ipiranga	110,0 km	Guarapuava, PR
0032			Construction of Curitiba Rail Bypass	51,5 km	Araucária, PR	São José dos Pinhais, PR
0574			Construction of Paraná-Mato Grosso do Sul rail connection from Guaíra to Cascavel	167,6 km	Guaíra, PR	Cascavel, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Railway construction	0728	Construction of Guaíra-Cianorte rail link	210,0 km	Guaíra, PR	Cianorte, PR
		1390	Construction of North-South Railway from Vitorino to Santo Inácio	622,3 km	Vitorino, PR	Santo Inácio, PR
		1402	Construction of rail link from Guarapuava to Pato Branco	184,0 km	Guarapuava, PR	Pato Branco, PR
		1403	Construction of rail link in Foz do Iguaçu	0,8 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1434	Construction of Paraná West Railway from Cascavel to Foz do Iguaçu	160,6 km	Cascavel, PR	Foz do Iguaçu, PR
		1442	Construction of Leste-Oeste Railway from Barracão to União da Vitória	300,0 km	Barracão, PR	União da Vitória, PR
		1469	Construction of South Coastal Railway from Paranaguá to Guaratuba	55,9 km	Paranaguá, PR	Guaratuba, PR
		1722	Construction of Apucarana Rail Bypass	25,8 km	Apucarana, PR	Apucarana, PR
		1723	Construction of branch line from Arapongas to Jataizinho	89,1 km	Arapongas, PR	Jataizinho, PR
		1724	Construction of Cornélio Procópio Rail Bypass	11,5 km	Cornélio Procópio, PR	Cornélio Procópio, PR
	1725	Construction of Bandeirantes Rail Bypass	5,4 km	Bandeirantes, PR	Bandeirantes, PR	
	2958	Construction of Nova Ferroeste railway from Guarapuava to Paranaguá	426,0 km	Guarapuava, PR	Paranaguá, PR	
	Construction of metro or urban train	0864	Construction of metro Blue Line in Curitiba	22,0 km	Curitiba, PR	Curitiba, PR
	Construction of HSR	1467	Construction of Belo Horizonte - Curitiba high-speed rail (HSR) from Adrianópolis to Curitiba	104,1 km	Adrianópolis, PR	Curitiba, PR
Railway duplication	0034	Duplication of rail route from Curitiba to Paranaguá	107,8 km	Curitiba, PR	Paranaguá, PR	

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	2891	Removal of right of way intrusion in Maringá	1 un	Maringá, PR	Maringá, PR
		2892	Removal of right of way intrusion in Ponta Grossa	1 un	Ponta Grossa, PR	Ponta Grossa, PR
		2893	Removal of right of way intrusion in Jandaia do Sul	1 un	Jandaia do Sul, PR	Jandaia do Sul, PR
		2894	Removal of right of way intrusion in Morretes	1 un	Morretes, PR	Morretes, PR
		2895	Removal of right of way intrusion in Piraquara	1 un	Piraquara, PR	Piraquara, PR
		2897	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2898	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2899	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2900	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		2901	Removal of right of way intrusion in Curitiba	1 un	Curitiba, PR	Curitiba, PR
		3208	Removal of right of way intrusions in Rolândia	2 un	Rolândia, PR	Rolândia, PR
		3209	Removal of right of way intrusion in Cambará	1 un	Cambará, PR	Cambará, PR
		3289	Removal of level crossings in Uraí	2 un	Uraí, PR	Uraí, PR
		3290	Removal of level crossing in Andirá	1 un	Andirá, PR	Andirá, PR
		3291	Removal of level crossing in Maringá	1 un	Maringá, PR	Maringá, PR
		3292	Removal of level crossings in Sarandi	3 un	Sarandi, PR	Sarandi, PR
		3293	Removal of level crossings in Marialva	2 un	Marialva, PR	Marialva, PR
		3294	Removal of level crossings in Mandaguari	2 un	Mandaguari, PR	Mandaguari, PR
		3295	Removal of level crossings in Jandaia do Sul	3 un	Jandaia do Sul, PR	Jandaia do Sul, PR
		3296	Removal of level crossings in Ponta Grossa	3 un	Ponta Grossa, PR	Ponta Grossa, PR



Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3297	Removal of level crossing in Piraquara	1 un	Piraquara, PR	Piraquara, PR
		3298	Removal of level crossing in Morretes	1 un	Morretes, PR	Morretes, PR
		3299	Removal of level crossings in Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR
	Restoration of railway	1401	Restoration of passenger train railway from Maringá to Londrina	122,0 km	Maringá, PR	Londrina, PR
		1480	Renovation of rail link from Cascavel to Laranjeiras do Sul	140,0 km	Cascavel, PR	Laranjeiras do Sul, PR
		2956	Restoration of Oeste do Paraná railway from Paranaguá to Cascavel	734,8 km	Paranaguá, PR	Cascavel, PR
Waterway	Channel opening	2988-INT	Dredging of Bugre Channel on the Paraná River Waterway	3,8 km	Mundo Novo, MS	Guaíra, PR
		1335-INT	Signaling and beacon installation of waterways on Paranaíba and Paraná rivers from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR
		1321-INT	Rock removal at Pedral do Guaíra on Paraná River waterway	3,0 km	Mundo Novo, MS	Guaíra, PR
		2994-INT	Dredging of Paraná River waterway from Ilha Solteira to Foz do Iguaçu	732,0 km	Ilha Solteira, SP	Foz do Iguaçu, PR
	Waterway adjustment	2999-INT	Protection of pillars on Porto Camargo bridge on Paraná River waterway	1 un	Naviraí, MS	Alto Paraíso, PR
		3048-INT	Dredging of Paranapanema River waterway from Ourinhos to São Pedro do Paraná	416,0 km	Ourinhos, SP	São Pedro do Paraná, PR
		1346	Dredging of Ivaí River waterway from Cândido de Abreu to Icaraíma	560,0 km	Cândido de Abreu, PR	Icaraíma, PR
		2961	Expansion of span and protection of pillars of PR-576 bridge on Ivaí River waterway	1 un	Santa Mônica, PR	Tapira, PR
		2962	Expansion of span and protection of pillars of PR-492 bridge on Ivaí River waterway	1 un	Paraíso do Norte, PR	Rondon, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	2964	Expansion of span and protection of pillars of PR-323 bridge on Ivaí River waterway	1 un	Doutor Camargo, PR	Terra Boa, PR
		2965	Expansion of span and protection of pillars of PR-317 bridge on Ivaí River waterway	1 un	Floresta, PR	Engenheiro Beltrão, PR
		2967	Expansion of span and protection of pillars of PR-466 bridge on Ivaí River waterway	1 un	Cruzmaltina, PR	Lidianópolis, PR
	Cargo riverboat	1285-INT	Construction of Canoas Sluice I on Paranapanema River waterway	1 un	Cândido Mota, SP	Itambaracá, PR
		1286-INT	Construction of Canoas Sluice II on Paranapanema River waterway	1 un	Palmital, SP	Andirá, PR
		1287-INT	Construction of Capivara sluice on Paranapanema River waterway	1 un	Taciba, SP	Porecatu, PR
		1288-INT	Construction of Rosana sluice on Paranapanema River waterway	1 un	Rosana, SP	Diamante do Norte, PR
		1289-INT	Construction of Taquaruçu sluice on Paranapanema River waterway	1 un	Sandovalina, SP	Itaguajé, PR
		3037-INT	Construction of Salto Grande sluice on Paranapanema River waterway	1 un	Salto Grande, SP	Cambará, PR
		0209	Construction of Itaipu sluice on Paraná River waterway	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		3039	Construction of São João do Ivaí sluice on Ivaí River Waterway	1 un	São João do Ivaí, PR	São Pedro do Ivaí, PR
		3040	Construction of Ubaúna sluice on Ivaí River waterway	1 un	São João do Ivaí, PR	Kaloré, PR
		3041	Construction of Foz do Alonzo sluice on Ivaí River waterway	1 un	Lidianópolis, PR	Cruzmaltina, PR
		3042	Construction of Salto Ariranha sluice on Ivaí River waterway	1 un	Ariranha do Ivaí, PR	Rio Branco do Ivaí, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Port	Waterway access to port	2037	Deepening of access channels and turning basin at Port of Paranaguá via dredging	14.200.000,0 m³	Paranaguá, PR	Paranaguá, PR	
		2038	Rock removal between access channel and turning basin at Port of Paranaguá	997.625,0 m³	Paranaguá, PR	Paranaguá, PR	
		3036	Maintenance dredging of access channels, turning basins, public berths and anchorages of ports of Paranaguá and Antonina	21.930.000,0 m³	Antonina, PR	Paranaguá, PR	
	Land access to port	1925	Construction of access to Port of Antonina via BR-277	11,0 km	Antonina, PR	Morretes, PR	
		2041	Restoration of rail access points and rail yards at Port of Paranaguá	12,3 km	Paranaguá, PR	Paranaguá, PR	
		2042	Adjustment of road access to Port of Paranaguá	17,0 km	Paranaguá, PR	Paranaguá, PR	
	Port area	Port	1923	Construction of customs dock at Port of Antonina	1 un	Antonina, PR	Antonina, PR
			1924	Adjustment of public pier at Port of Antonina	1 un	Antonina, PR	Antonina, PR
			2027	Expansion and adjustment of West Pier at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
			2029	Construction of berths at Port of Paranaguá	2 un	Paranaguá, PR	Paranaguá, PR
			2030	Construction of customs dock at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
			2031	Construction of silos at Port of Paranaguá	2 un	Paranaguá, PR	Paranaguá, PR
		Port area	2033	Construction of F-shaped pier at West Pier of Port of Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR
			2034	Expansion of screening yard at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
			2035	Construction of T-shaped pier on Export Corridor at Port of Paranaguá	4 un	Paranaguá, PR	Paranaguá, PR
			2039	Adjustment and expansion of liquid bulk cargo pier at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Port	Port construction	1927	Construction of passenger terminal at Port of Antonina	1 un	Antonina, PR	Antonina, PR
		2036	Construction of passenger terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2936	Construction of grain terminal at Port of Itaguaí	3 un	Paranaguá, PR	Paranaguá, PR
		2938	Construction of vehicle terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
		2940	Construction of pulp terminal at Port of Paranaguá	1 un	Paranaguá, PR	Paranaguá, PR
Road	Adjustment of express lane or BRT or RTM	1157	Implementation and modernization of BRTs in Curitiba	106,0 km	Curitiba, PR	Curitiba, PR
		2809	Adjustment of East-West BRT in Curitiba	20,7 km	Curitiba, PR	Curitiba, PR
	Road adjustment	0797	Implantação de sinalização na rodovia BR-469 em Foz do Iguaçu	20,2 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1158	Adequação do Contorno Sul de Curitiba na BR-376	14,6 km	Curitiba, PR	Curitiba, PR
		2288	Implantação de faixa adicional na rodovia BR-476 de Lapa a Paula Freitas	43,6 km	Lapa, PR	Paula Freitas, PR
		2347	Implementation of additional lane on PRT-272/BR-272 and PRT-466/BR-466 from Mauá da Serra to Pitanga	119,0 km	Mauá da Serra, PR	Pitanga, PR
		2348	Implementation of additional lane on BR-487 from Campo Mourão to Iretama	14,0 km	Campo Mourão, PR	Iretama, PR
		2478	Implementation of signs on PR-170 from Guarapuava to General Carneiro	177,4 km	Guarapuava, PR	General Carneiro, PR
		2479	Implementation of signs on PR-410 from Quatro Barras to Morretes	19,5 km	Quatro Barras, PR	Morretes, PR
		2513	Implementation of signs on PR-281 in Chopinzinho	16,3 km	Chopinzinho, PR	Chopinzinho, PR
		2565	Implementation of signs on BR-476 in Curitiba	13,5 km	Curitiba, PR	Curitiba, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	2653	Implementation of additional lane on PRT-280 / BR-280 and BR-280 from Vitorino to Flor da Serra do Sul	40,0 km	Vitorino, PR	Flor da Serra do Sul, PR
		2654	Implementation of additional lane on BR-369 and PRT-466/BR-466 from Jandaia do Sul to Borrazópolis	40,0 km	Jandaia do Sul, PR	Borrazópolis, PR
		2682	Implementation of additional lane on PRT-158/BR-158 in Vitorino	13,0 km	Vitorino, PR	Vitorino, PR
		2683	Implementation of additional lane on BR-158 from Palmital to Chopinzinho	136,0 km	Palmital, PR	Chopinzinho, PR
		3822	Implementation of signs on BR-158 and PRT-158/ BR-158 from Coronel Vivida to Vitorino	47,0 km	Coronel Vivida, PR	Vitorino, PR
		3824	Implementation of additional lane on BR-373 from Candói to Coronel Vivida	62,0 km	Candói, PR	Coronel Vivida, PR
		3829	Implementation of signs on BR-280 from Flor da Serra do Sul to Barracão	24,1 km	Flor da Serra do Sul, PR	Barracão, PR
		3838	Implementation of additional lane on PRT-272/BR-272 from Siqueira Campos to Ibaiti	50,0 km	Siqueira Campos, PR	Ibaiti, PR
		3863	Implementation of signs on PR-323, PRT-487 / BR-487 and BR-272 from Maringá to Guaíra	263,1 km	Maringá, PR	Guaíra, PR
		3916	Implementation of additional lane on BR-376 from Nova Londrina to Paranavaí	12,0 km	Nova Londrina, PR	Paranavaí, PR
		3925	Construction of 2 <sup>nd</sup> bridge on BR-277 over Paraná River in Foz do Iguaçu	0,8 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		3934	Implementation of signs on PR-090 from Ventania to Pirai do Sul	32,5 km	Ventania, PR	Pirai do Sul, PR
3940	Adequacy of Maringá North Bypass on BR-376	11,2 km	Maringá, PR	Maringá, PR		

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Urban road adjustment	0852	Adjustment of Airport-Bus/Railway Thoroughfare in Curitiba	14,8 km	Curitiba, PR	Curitiba, PR	
		0853	Adjustment of Airport-Bus/Railway Thoroughfare in São José dos Pinhais	4,5 km	São José dos Pinhais, PR	São José dos Pinhais, PR	
		1156	Adjustment of urban roads in Maringá	16,6 km	Maringá, PR	Maringá, PR	
	Road construction	0558	Construction of BR-153 from Ipiranga to Imbituva	50,5 km	Ipiranga, PR	Imbituva, PR	
		0922	Construction of BR-101 from Guaraqueçaba to Guaratuba	155,0 km	Guaraqueçaba, PR	Guaratuba, PR	
		0926	Construction of BR-272 from Figueira to Mauá da Serra	80,0 km	Figueira, PR	Mauá da Serra, PR	
		0927	Construction of BR-272 from Cruzmaltina to Campo Mourão	92,9 km	Cruzmaltina, PR	Campo Mourão, PR	
		0928	Construction of BR-272 from Goioerê to Iporã	73,0 km	Goioerê, PR	Iporã, PR	
		2278	Construction of BR-487 from Icaraíma to Campo Mourão	157,0 km	Icaraíma, PR	Campo Mourão, PR	
		2810	Implementation of 3rd Ring Road in Curitiba	61,3 km	Curitiba, PR	Curitiba, PR	
		Urban road construction	3942	Paving of access road to dry port in Foz do Iguaçu	0,6 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
			0064	Duplication of BR-116 from Mandirituba to Rio Negro	68,1 km	Mandirituba, PR	Rio Negro, PR
	Road duplication	0065	Duplication of BR-153 from Paula Freitas to General Carneiro	94,0 km	Paula Freitas, PR	General Carneiro, PR	
		0067	Duplication of BR-163 from Barracão to Guaíra	317,5 km	Barracão, PR	Guaíra, PR	
		0069	Duplication of BR-277 from Balsa Nova to Matelândia	500,6 km	Balsa Nova, PR	Matelândia, PR	
0122		Duplication of BR-153 from Imbituva to Paulo Frontin	117,7 km	Imbituva, PR	Paulo Frontin, PR		
2287		Duplication of PR-092 from Jaguariaíva to Santo Antônio da Platina	127,5 km	Jaguariaíva, PR	Santo Antônio da Platina, PR		

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road duplication	2344	Duplication of BR-272 from Campo Mourão to Goioerê	72,1 km	Campo Mourão, PR	Goioerê, PR
		2345	Duplication of PRT-280 / BR-280 in União da Vitória	6,6 km	União da Vitória, PR	União da Vitória, PR
		2655	Duplication of BR-476 from Adrianópolis to Curitiba	114,5 km	Adrianópolis, PR	Curitiba, PR
		3749	Duplication of BR-153 from Jacarezinho to Ipiranga	242,0 km	Jacarezinho, PR	Ipiranga, PR
		3882	Duplication of PRT-466 / BR-466 from Pitanga to Guarapuava	85,4 km	Pitanga, PR	Guarapuava, PR
	Implementation of express lane or BRT or RTM	0854	Implementation of preferential bus lane on Avenida Cândido de Abreu in Curitiba	0,9 km	Curitiba, PR	Curitiba, PR
		0855	Expansion of BRT Green Line in Curitiba	13,0 km	Curitiba, PR	Curitiba, PR
		0857	Expansion of Marechal Floriano BRT in São José dos Pinhais	3,4 km	São José dos Pinhais, PR	São José dos Pinhais, PR
		1143	Implementation of preferential bus lanes in Foz do Iguaçu	17,0 km	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1144	Implementation of BHLS in Londrina	27,0 km	Londrina, PR	Londrina, PR
		2808	Implementation of Inter II BRT in Curitiba	38,0 km	Curitiba, PR	Curitiba, PR
		Paving of road	2277	Paving of BR-158 from Campo Mourão to Palmital	106,1 km	Campo Mourão, PR
	0259		Restoration of pavement on PR-468 and PR-180 from Umuarama to Goioerê	58,8 km	Umuarama, PR	Goioerê, PR
	Restoration of pavement on road	2480	Restoration of pavement on PR-453 from Borrazópolis to Cruzmaltina	11,3 km	Borrazópolis, PR	Cruzmaltina, PR
		2481	Restoration of pavement PRT-487 / BR-487 and PR-460 from Iretama to Pitanga	52,5 km	Iretama, PR	Pitanga, PR

Table 112 - List of projects - Paraná

continuation

Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Restoration of pavement on road	3865	Restoration of pavement on PR-323 in Maringá	11,9 km	Maringá, PR	Maringá, PR
		3910	Restoration of pavement on PR-182/BR-376 from Diamante do Norte to Nova Londrina	33,3 km	Diamante do Norte, PR	Nova Londrina, PR
		3931	Restoration of pavement on PR-410 from Morretes to Antonina	10,6 km	Morretes, PR	Antonina, PR
		3935	Restoration of pavement on PR-317 from Santo Inácio to Maringá	92,9 km	Santo Inácio, PR	Maringá, PR
		3937	Restoration of pavement on PR-317, PR-488 and PR-495 from Toledo to Medianeira	150,0 km	Toledo, PR	Medianeira, PR
		3938	Restoration of pavement on PR-495 from Santa Helena to Marechal Cândido Rondon	25,5 km	Santa Helena, PR	Marechal Cândido Rondon, PR
Terminal	Terminal adjustment	3180	Adjustment of rail freight terminal in Cascavel	1 un	Cascavel, PR	Cascavel, PR
	Terminal adjustment - Urban	0861	Adjustment of Santa Cândida Terminal in Curitiba	1 un	Curitiba, PR	Curitiba, PR
	Terminal construction	0444	Construction of intermodal cargo terminal in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		0445	Construction of waterway cargo terminal in Guaíra	1 un	Guaíra, PR	Guaíra, PR
		0446	Construction of intermodal cargo terminal in Cambará	1 un	Cambará, PR	Cambará, PR
		0447	Construction of intermodal cargo terminal in União da Vitória	1 un	União da Vitória, PR	União da Vitória, PR
		0448	Construction of cargo terminal in Telêmaco Borba	1 un	Telêmaco Borba, PR	Telêmaco Borba, PR
	1801	Construction of rail freight terminal in Campo Mourão	1 un	Campo Mourão, PR	Campo Mourão, PR	
	1802	Construction of rail freight terminal in Laranjeiras do Sul	1 un	Laranjeiras do Sul, PR	Laranjeiras do Sul, PR	



Table 112 - List of projects - Paraná

continuation

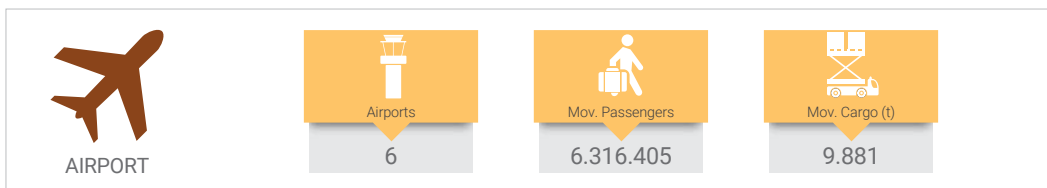
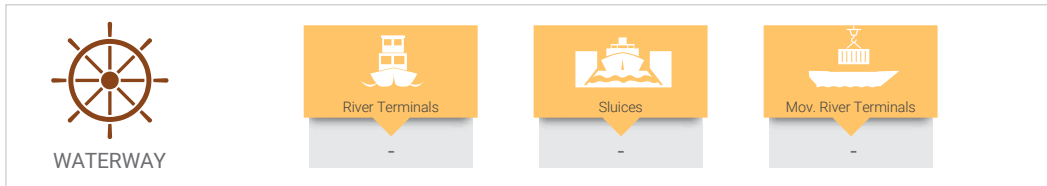
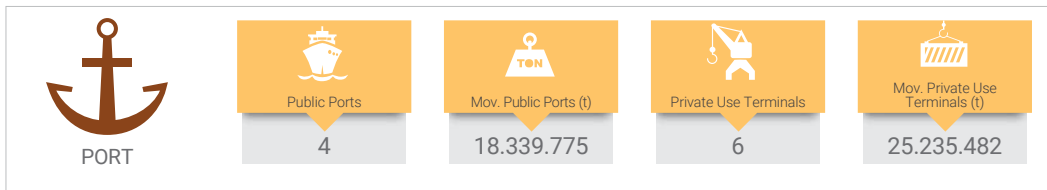
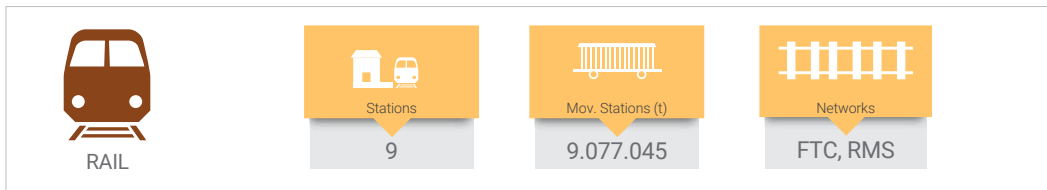
Infrastructure	Category	Project No	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1803	Construction of rail freight terminal in Pato Branco	1 un	Pato Branco, PR	Pato Branco, PR
		1813	Construction of rail freight terminal in Foz do Iguaçu	1 un	Foz do Iguaçu, PR	Foz do Iguaçu, PR
		1814	Construction of waterway cargo terminal in Sertãoópolis	1 un	Sertãoópolis, PR	Sertãoópolis, PR
		1815	Construction of waterway cargo terminal in Doutor Camargo	1 un	Doutor Camargo, PR	Doutor Camargo, PR
		1820	Construction of waterway cargo terminal in Santa Terezinha de Itaipu	1 un	Santa Terezinha de Itaipu, PR	Santa Terezinha de Itaipu, PR
		1837	Construction of waterway cargo terminal in Querência do Norte	1 un	Querência do Norte, PR	Querência do Norte, PR
		2837	Construction of parking lot for cargo vehicles in Curitiba Metropolitan Region	1 un	Curitiba, PR	Curitiba, PR
	3420	Construction of parking lot for cargo vehicles in the Metropolitan Region of Londrina	1 un	Arapongas, PR	Arapongas, PR	
	Terminal construction - Urban	1161	Construction and adjustment of urban passenger bus terminals in Curitiba	5 un	Curitiba, PR	Curitiba, PR

Note: No information found for extension of project 2038. Therefore, the project scale was estimated using the expected investment amount.

Table 113 - Minimum Investment - Paraná

Infraestrutura	Categoria	Dimensão	Investimento Mínimo (R\$)
Airport	Airport adjustment	10 un	1.095.376.142,36
	Airport construction	2 un	1.237.240.902,24
Rail	Railway construction	2.420,5 km	33.119.656.921,63
	Construction of metro or urban train	22,0 km	7.419.864.026,40
	Construction of HSR	104,1 km	6.923.977.000,89
	Railway duplication	107,8 km	1.051.564.687,20
	Elimination of bottlenecks	36 un	216.631.791,59
	Restoration of railway	996,8 km	4.468.645.678,76
Waterway	Channel opening	3,8 km	229.009.151,54
	Waterway adjustment	2.670,0 km	525.947.103,96
		6 un	496.186.495,01
	Cargo riverboat	11 un	15.183.675.258,31
Port	Waterway access to port	37.127.625,0 m³	1.155.481.407,87
	Land access to port	40,3 km	359.177.159,62
	Port area	18 un	2.085.379.433,75
	Port construction	7 un	1.457.933.240,13
Road	Adjustment of express lane or BRT or RTM	126,7 km	4.310.645.981,47
	Road adjustment	1.169,8 km	3.044.334.439,55
	Urban road adjustment	35,9 km	166.486.826,13
	Road construction	669,7 km	3.516.632.362,84
	Urban road construction	0,6 km	19.138.748,93
	Road duplication	1.746,0 km	20.181.275.183,85
	Implementation of express lane or BRT or RTM	99,3 km	1.574.311.776,72
	Paving of road	106,1 km	491.549.436,42
	Restoration of pavement on road	446,8 km	1.471.269.420,79
Terminal	Terminal adjustment	1 un	29.353.592,27
	Terminal adjustment - Urban	1 un	7.743.392,52
	Terminal construction	15 un	800.864.030,43
	Terminal construction - Urban	5 un	210.664.044,18
<b>Total</b>			<b>112.850.015.637,36</b>

### 7.4.2 SANTA CATARINA



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FTC - Tereza Cristina Railway, RMS - Rumo Malha Sul Network.

Table 114 - List of project - Santa Catarina

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Airport	Airport adjustment	1633	Expansion of Diomício Freitas Airport in Forquilha	1 un	Forquilha, SC	Forquilha, SC
		1635	Restoration of Correia Pinto Airport in Lages	1 un	Lages, SC	Lages, SC
		1636	Expansion of Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
		1638	Expansion of Ministro Victor Konder Airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		3030	Expansion of terminal and restoration of road access to Serafin Enoss Bertaso Airport in Chapecó	1 un	Chapecó, SC	Chapecó, SC
		3049	Acquisition of fire engines for Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
		3346	Runway repair at Lauro Carneiro de Loyola Airport in Joinville	1 un	Joinville, SC	Joinville, SC
	3347	Runway repair at Ministro Victor Konder Airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC	
	Airport construction	0298	Construction of new passenger terminal at Hercílio Luz Airport in Florianópolis	1 un	Florianópolis, SC	Florianópolis, SC
		1637	Construction of new airport in Navegantes	1 un	Navegantes, SC	Navegantes, SC
Rail	Railway construction	0015	Construction of São Francisco do Sul Rail Bypass	8,3 km	São Francisco do Sul, SC	São Francisco do Sul, SC
		0016	Construction of Joinville Rail Bypass	18,0 km	Guaramirim, SC	Araquari, SC
		0033	Construction of branch line from Jaraguá do Sul to Guaramirim	31,1 km	Jaraguá do Sul, SC	Guaramirim, SC
		0044	Construction of branch line in Siderópolis	12,0 km	Treviso, SC	Siderópolis, SC
		0045	Construction of South Coastal Railway from Araquari to Imbituba	270,0 km	Araquari, SC	Imbituba, SC
		1372	Construction of Santa Catarina Rail Corridor from Dionísio Cerqueira to Itajaí	638,8 km	Dionísio Cerqueira, SC	Itajaí, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Rail	Railway construction	1391	Construction of the North-South Railway from Caibi to São Lourenço do Oeste	144,4 km	Caibi, SC	São Lourenço do Oeste, SC
		1429	Construction of rail link from Lages to Tubarão	200,0 km	Lages, SC	Tubarão, SC
		1441	Construction of South Coastal Railway from Passo de Torres to Içara	100,6 km	Passo de Torres, SC	Içara, SC
		1470	Construction of South Coastal Railway from Garuva to São Francisco do Sul	27,9 km	Garuva, SC	São Francisco do Sul, SC
		1483	Construction of rail access to Mine 101 in Içara	4,5 km	Içara, SC	Içara, SC
		1484	Construction of rail access to Maracajá Mine	12,0 km	Içara, SC	Maracajá, SC
		1485	Construção do acesso ferroviário às Minas de Lauro Müller	12,0 km	Lauro Muller, SC	Treviso, SC
		1733	Construction of Araquari Rail Bypass	3,9 km	Araquari, SC	Araquari, SC
		3177	Removal of right of way intrusion in Irineópolis	1 un	Irineópolis, SC	Irineópolis, SC
	Elimination of bottlenecks	3178	Removal of right of way intrusions in Corupá	3 un	Corupá, SC	Corupá, SC
		3179	Removal of right of way intrusions in Jaraguá do Sul	7 un	Jaraguá do Sul, SC	Jaraguá do Sul, SC
		3181	Removal of right of way intrusions in Guaramirim	2 un	Guaramirim, SC	Guaramirim, SC
		3182	Removal of right of way intrusions in Joinville	4 un	Joinville, SC	Joinville, SC
		3183	Removal of right of way intrusions in São Francisco do Sul	6 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		3184	Removal of right of way intrusions in Mafra	3 un	Mafra, SC	Mafra, SC
		3185	Removal of right of way intrusion in Lages	1 un	Lages, SC	Lages, SC
		3186	Removal of right of way intrusions in Imbituba	2 un	Imbituba, SC	Imbituba, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Rail	Elimination of bottlenecks	3187	Removal of right of way intrusions in Laguna	5 un	Laguna, SC	Laguna, SC
		3188	Removal of right of way intrusion in Tubarão	1 un	Tubarão, SC	Tubarão, SC
		3189	Removal of right of way intrusion in Jaguaruna	1 un	Jaguaruna, SC	Jaguaruna, SC
		3190	Removal of right of way intrusion in Içara	1 un	Içara, SC	Içara, SC
		3249	Removal of level crossing in Porto União	1 un	Porto União, SC	Porto União, SC
		3250	Removal of level crossing in São Bento do Sul	1 un	São Bento do Sul, SC	São Bento do Sul, SC
		3252	Removal of level crossings in Mafra	3 un	Mafra, SC	Mafra, SC
		3253	Removal of level crossing in Papanduva	1 un	Papanduva, SC	Papanduva, SC
		3254	Removal of level crossing in Santa Cecília	1 un	Santa Cecília, SC	Santa Cecília, SC
		3255	Removal of level crossing in Siderópolis	1 un	Siderópolis, SC	Siderópolis, SC
		3256	Removal of level crossings in Criciúma	4 un	Criciúma, SC	Criciúma, SC
	3257	Removal of level crossings in Içara	3 un	Içara, SC	Içara, SC	
	Restoration of railway	1427	Restoration of rail link from Porto União to São Francisco do Sul	460,0 km	Porto União, SC	São Francisco do Sul, SC
		1428	Restoration of rail link from Imbituba to Urussanga	200,0 km	Imbituba, SC	Urussanga, SC
		1430	Restoration of passenger train railway from Rio do Sul to Itajaí	146,0 km	Rio do Sul, SC	Itajaí, SC
		1477	Restoration of railway Passo Fundo - Porto União railway from Porto União to Alto Bela Vista	362,3 km	Porto União, SC	Alto Bela Vista, SC
	Port	Waterway access to port	0240	Rock removal and dredging of access channel at Port of Laguna	100.000,0 m³	Laguna, SC
2004			Dredging of access channel at Port of Itajaí	4.000.000,0 m³	Itajaí, SC	Itajaí, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State	
Port	Waterway access to port	2110	Rock removal of turning basin at Port of São Francisco do Sul	65.000,0 m <sup>3</sup>	São Francisco do Sul, SC	São Francisco do Sul, SC	
		2856	Dredging and rock removal of turning basin of Port of Itajaí -Stage 1	3.399.911,4 m <sup>3</sup>	Itajaí, SC	Itajaí, SC	
		2857	Dredging and rock removal of turning basin at Port of Itajaí - Stage 2	745.206,3 m <sup>3</sup>	Itajaí, SC	Itajaí, SC	
		2879	Maintenance dredging at Port of Imbituba	500.000,0 m <sup>3</sup>	Imbituba, SC	Imbituba, SC	
	Land access to port	0108	Adjustment of access to Port of Itajaí via SC-412	25,4 km	Itajaí, SC	Gaspar, SC	
		1973	Construction of access ramp to Port of Imbituba	1,0 km	Imbituba, SC	Imbituba, SC	
		1974	Adjustment of north access to Port of Imbituba	4,8 km	Imbituba, SC	Imbituba, SC	
		1981	Restoration of internal roads and access gatehouses at Port of Imbituba	5,5 km	Imbituba, SC	Imbituba, SC	
		2002	Construction of Port Expressway to Port of Itajaí	10,0 km	Itajaí, SC	Itajaí, SC	
		2106	Construction of ring road for access to Port of São Francisco do Sul	1,4 km	São Francisco do Sul, SC	São Francisco do Sul, SC	
		2881	Construction of internal road and new access gatehouse to Port of Imbituba	1,2 km	Imbituba, SC	Imbituba, SC	
		3727	Restoration of road access to Port of Itajaí via BR-101	6,5 km	Itajaí, SC	Itajaí, SC	
		Port area	1972	Construction of berth at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
			1975	Construction of road sorting yard at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
			1976	Expansion of harbor mole at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
			1977	Construction of back-up area of berth 2 at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Port	Port area	1978	Expansion of berth 3 and its back-up area at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		1980	Adjustment of berths at Port of Imbituba	4 un	Imbituba, SC	Imbituba, SC
		2005	Revitalization of port area at Port of Itajaí	1 un	Itajaí, SC	Itajaí, SC
		2006	Adjustment of berths 3 and 4 at Porto of Itajaí	2 un	Itajaí, SC	Itajaí, SC
		2008	Construction of berths at Port of Laguna	2 un	Laguna, SC	Laguna, SC
		2107	Construction of berth 401 at Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC
		2111	Revitalization of port area of Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC
	2858	Implementation of VTMS at Port of Itajaí	1 un	Itajaí, SC	Itajaí, SC	
	Port construction	1979	Construction of terminal at Port of Imbituba	1 un	Imbituba, SC	Imbituba, SC
		2003	Construction of container and vehicle terminals at Port of Itajaí	2 un	Itajaí, SC	Itajaí, SC
2109		Construction of Ocean Barge Terminal at Port of São Francisco do Sul	1 un	São Francisco do Sul, SC	São Francisco do Sul, SC	
Road	Road adjustment	2362	Implementation of signs on BR-282 and BR-283 in Campos Novos	29,6 km	Campos Novos, SC	Campos Novos, SC
		2363	Implementation of additional lane on BR-470 in Campos Novos	5,0 km	Campos Novos, SC	Campos Novos, SC
		2364	Implementation of additional lane on SCT-480 / BR-480 from São Lourenço do Oeste to Xanxerê	37,0 km	São Lourenço do Oeste, SC	Xanxerê, SC
		2519	Implementation of signs on SC-157 from São Lourenço do Oeste to Chapecó	91,1 km	São Lourenço do Oeste, SC	Chapecó, SC
		2593	Implementation of additional lane on BR-282 from Palhoça to Bocaina do Sul	40,0 km	Palhoça, SC	Bocaina do Sul, SC



Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
		2594	Implementation of additional lane on BR-282 from Campos Novos to Irani	13,0 km	Campos Novos, SC	Vargem Bonita, SC
		2670	Implementation of additional lane on BR-280 from Mafra to Porto União	100,0 km	Mafra, SC	Porto União, SC
		2671	Implementation of additional lane on SCT-283 / BR-283 from Concórdia to Chapecó	54,0 km	Concórdia, SC	Chapecó, SC
		2676	Implementation of signs on BR-480 and SC-480 roads in Chapecó	20,0 km	Chapecó, SC	Chapecó, SC
		3731	Increase in number of traffic lanes on BR-101 from Palhoça to Passo de Torres	220,4 km	Palhoça, SC	Passo de Torres, SC
		3735	Construction of tunnel through Morro dos Cavalos on BR-101 in Palhoça	2,2 km	Palhoça, SC	Palhoça, SC
Road	Road adjustment	3743	Implementation of additional lane on BR-280 from Jaraguá do Sul to Mafra	60,0 km	Jaraguá do Sul, SC	Mafra, SC
		3744	Implementation of signs on BR-282 from Lages to Campos Novos	103,5 km	Lages, SC	Campos Novos, SC
		3753	Adjustment of Florianópolis Expressway on BR-282	5,2 km	Florianópolis, SC	São José, SC
		3755	Implementation of additional lane on SCT-283 / BR-283 from Chapecó to Palmitos	61,0 km	Chapecó, SC	Palmitos, SC
		3756	Implementation of additional lane on SC-284/BR-283 and SC-135/BR-283 from Campos Novos to Capinzal	15,0 km	Campos Novos, SC	Capinzal, SC
		3761	Implementation of signs on SC-305 from Anchieta to Guaraciaba	23,8 km	Anchieta, SC	Guaraciaba, SC
		3762	Implementation of signs on SC-305 from São Lourenço do Oeste to Campo Erê	47,0 km	São Lourenço do Oeste, SC	Campo Erê, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Road	Road adjustment	3766	Implementation of signs on SC-453 from Tangará to Luzerna	32,5 km	Tangará, SC	Luzerna, SC
		3768	Implantation of signs on SC-350 from Caçador to Santa Cecília	69,5 km	Caçador, SC	Santa Cecília, SC
	Urban road adjustment	1169	Adjustment of Rua Nove de Março in Joinville	1,0 km	Joinville, SC	Joinville, SC
		1171	Implementation of horizontal and vertical signs on urban roads in Joinville	1,0 km	Joinville, SC	Joinville, SC
		1199	Adjustment of Avenida Santa Catarina in Camboriú	2,5 km	Camboriú, SC	Camboriú, SC
	Road construction	2280	Construction of SCT-477 / BR-477 from Rio Negrinho to Doutor Pedrinho	30,0 km	Rio Negrinho, SC	Doutor Pedrinho, SC
	Urban road construction	1165	Expansion of Rua Max Colin in Joinville	1,7 km	Joinville, SC	Joinville, SC
		1166	Expansion of Rua Almirante Jaceguay in Joinville	6,6 km	Joinville, SC	Joinville, SC
		2154	Construction of new access road to Hercílio Luz Airpo	8,7 km	Florianópolis, SC	Florianópolis, SC
		0087	Duplication of BR-116 from Mafra to Capão Alto	307,9 km	Mafra, SC	Capão Alto, SC
	Road duplication	0088	Duplication of BR-470 from Indaial to Campos Novos	228,9 km	Indaial, SC	Campos Novos, SC
		0090	Duplication of BR-153 from Água Doce to Concórdia	119,3 km	Água Doce, SC	Concórdia, SC
		2289	Duplication of BR-280 from São Francisco do Sul to Jaraguá do Sul	73,9 km	São Francisco do Sul, SC	Jaraguá do Sul, SC
		2291	Duplication of BR-282 from Maravilha to São Miguel do Oeste	41,2 km	Maravilha, SC	São Miguel do Oeste, SC
		2292	Duplication of BR-282 from Bocaina do Sul to Lages	56,4 km	Bocaina do Sul, SC	Lages, SC
		2360	Duplication of BR-163 from São Miguel do Oeste to Dionísio Cerqueira	62,0 km	São Miguel do Oeste, SC	Dionísio Cerqueira, SC

Table 114 - List of project - Santa Catarina

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Road	Road duplication	2361	Duplication of BR-282 from Irani to Cunha Porã	159,8 km	Irani, SC	Cunha Porã, SC
		2571	Duplication of BR-158 road from Maravilha to Palmitos	39,8 km	Maravilha, SC	Palmitos, SC
		2572	Duplication of SCT-486 / BR-486 from Itajaí to Brusque	30,2 km	Itajaí, SC	Brusque, SC
		2575	Duplication of BR-470 from Navegantes to Indaial	73,2 km	Navegantes, SC	Indaial, SC
		3746	Duplication of BR-282 in Campos Novos	13,2 km	Campos Novos, SC	Campos Novos, SC
	Duplication of urban road	1178	Duplication of Rua Deputado Antônio Edu Vieira in Florianópolis	1,3 km	Florianópolis, SC	Florianópolis, SC
	Implementation of express lane or BRT or RTM	1172	Implementation of Central Ring Road Corridor in Florianópolis	17,0 km	Florianópolis, SC	Florianópolis, SC
		1180	Implementation of Southern Structural Corridor in Blumenau	4,9 km	Blumenau, SC	Blumenau, SC
		2831	Implementation of Northern Structural Corridor in Blumenau	9,0 km	Blumenau, SC	Blumenau, SC
		3623	Implementation of preferential bus lanes in Joinville	55,0 km	Joinville, SC	Joinville, SC
		3640	Implementation of preferential bus lanes in Florianópolis	19,7 km	Florianópolis, SC	Florianópolis, SC
	Paving of road	2281	Pavimentação da rodovia BR-285 em Timbé do Sul	20,4 km	Timbé do Sul, SC	Timbé do Sul, SC
	Restoration of pavement on road	2518	Restoration of pavement on SC-350 from Água Doce to Caçador	62,4 km	Água Doce, SC	Caçador, SC
		2669	Restoration of pavement on BR-158 road in Palmitos	11,8 km	Palmitos, SC	Palmitos, SC
		2672	Restoration of pavement on SCT-477 / BR-477 from Canoinhas to Papanduva	34,3 km	Canoinhas, SC	Papanduva, SC
		3757	Restoration of pavement on SCT-285 / BR-285 from Araranguá to Timbé do Sul	35,4 km	Araranguá, SC	Timbé do Sul, SC

Table 114 - List of project - Santa Catarina

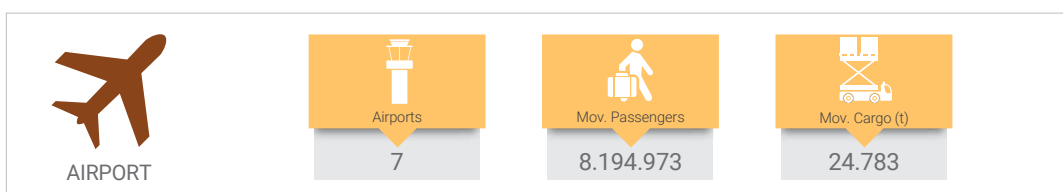
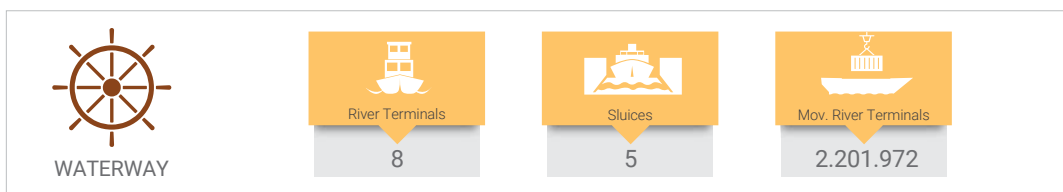
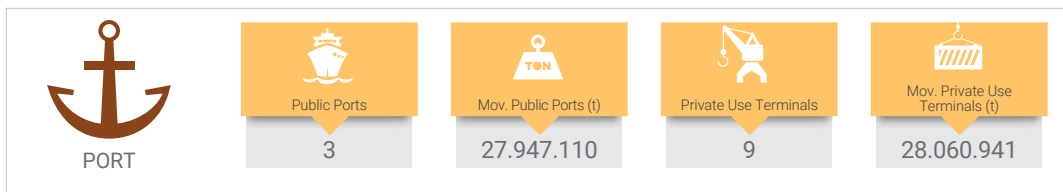
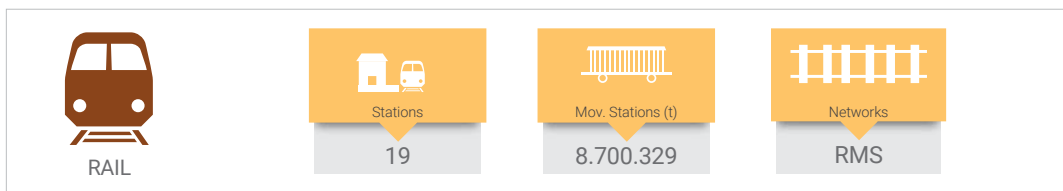
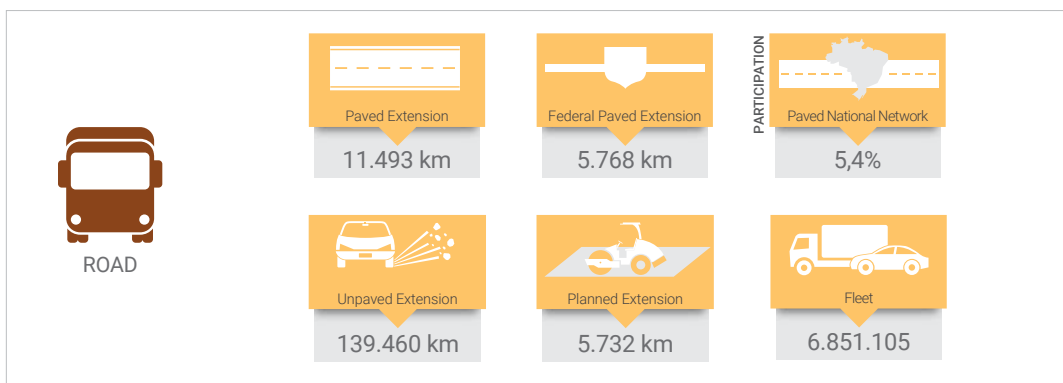
continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/State
Road	Restoration of pavement on road	3764	Restoration of the pavement on SC-161 from Campo Erê to Anchieta	15,5 km	Campo Erê, SC	Anchieta, SC
Terminal	Terminal construction	0504	Construction of cargo terminals in Chapecó	1 un	Chapecó, SC	Chapecó, SC
		0505	Construction of rail freight terminal in Dionísio Cerqueira	1 un	Dionísio Cerqueira, SC	Dionísio Cerqueira, SC
		1804	Construction of rail freight terminal in Coronel Freitas	1 un	Coronel Freitas, SC	Coronel Freitas, SC
		1806	Construction of rail freight terminal in Lages	1 un	Lages, SC	Lages, SC
		1808	Construction of intermodal cargo terminal in Navegantes	1 un	Navegantes, SC	Navegantes, SC
		1809	Construction of logistics platform in Itajaí	1 un	Itajaí, SC	Itajaí, SC
		1810	Construction of rail freight terminal in São José	1 un	São José, SC	São José, SC
		1816	Construction of Santa Catarina Intermodal Complex in Araquari	1 un	Araquari, SC	Araquari, SC
		2841	Construction of parking lot for cargo vehicles in Florianópolis Metropolitan Region	1 un	Florianópolis, SC	Florianópolis, SC
		3419	Construction of parking lot for cargo vehicles in North/Northeast Santa Catarina Metropolitan Region	1 un	Joinville, SC	Joinville, SC

Tabela 115 - Investimento Mínimo - Santa Catarina

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	8 un	295.035.516,88
	Airport construction	2 un	1.580.735.139,06
Rail	Railway construction	1.483,5 km	17.062.812.714,16
	Elimination of bottlenecks	52 un	136.537.900,25
	Restoration of railway	1.168,3 km	5.623.547.936,32
Port	Waterway access to port	8.810.117,7 m³	492.180.426,14
	Land access to port	55,8 km	634.755.169,06
	Port area	17 un	1.407.158.035,46
	Port construction	4 un	4.479.829.099,48
Road	Road adjustment	1.029,8 km	3.989.316.453,66
	Urban road adjustment	4,5 km	15.030.509,39
	Road construction	30,0 km	190.500.089,99
	Urban road construction	17,0 km	309.246.972,05
	Road duplication	1.205,8 km	14.264.282.734,93
	Duplication of urban road	1,3 km	17.433.475,97
	Implementation of express lane or BRT or RTM	105,6 km	718.505.918,89
	Paving of road	20,4 km	95.783.837,31
	Restoration of pavement on road	159,4 km	524.888.866,77
Terminal	Terminal construction	10 un	2.506.041.702,36
<b>Total</b>			<b>54.343.622.498,13</b>

### 7.4.3 RIO GRANDE DO SUL



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: RMS - Rumo Malha Sul Network.

Table 116 - List of projects - Rio Grande do Sul

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Airport	Airport adjustment	0031	Expansion of Hugo Cantergiani Regional Airport in Caxias do Sul	1 un	Caxias do Sul, RS	Caxias do Sul, RS
		0615	Expansion of cargo terminal at Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		0616	Expansion of runway at Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		0963	Expansion of terminal of Salgado Filho International Airport in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		1533	Expansion of Lauro Kurtz Airport in Passo Fundo	1 un	Passo Fundo, RS	Passo Fundo, RS
		1534	Expansion of Rio Grande Regional Airport	1 un	Rio Grande, RS	Rio Grande, RS
		1644	Expansion of passenger terminal and runway system at Comandante Gustavo Kraemer Airport in Bagé	1 un	Bagé, RS	Bagé, RS
		1645	Expansion of João Simões Lopes Neto Airport in Pelotas	1 un	Pelotas, RS	Pelotas, RS
		1648	Expansion of passenger terminal and runway system at Rubem Berta Airport in Uruguaiiana	1 un	Uruguaiiana, RS	Uruguaiiana, RS
		3340	Expansion of passenger terminal at Santo Ângelo Airport	1 un	Santo Ângelo, RS	Santo Ângelo, RS
		3341	Expansion of Santa Maria Airport	1 un	Santa Maria, RS	Santa Maria, RS
		3342	Expansion of Erechim Airport	1 un	Erechim, RS	Erechim, RS
		3343	Expansion of Santa Cruz do Sul Airport	1 un	Santa Cruz do Sul, RS	Santa Cruz do Sul, RS
		Airport construction	1509	Airport construction in Caxias do Sul (Vila Oliva Airport)	1 un	Caxias do Sul, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Rail	Acquisition and improvement of rolling stock	3887	Acquisition of rolling stock for metro in Porto Alegre	15 un	Porto Alegre, RS	Novo Hamburgo, RS	
		1392	Construction of North-South Railway from Rio Grande to Vicente Dutra	832,9 km	Rio Grande, RS	Vicente Dutra, RS	
		1420	Construction of rail link from São Borja to São Luiz Gonzaga	130,0 km	São Borja, RS	São Luiz Gonzaga, RS	
		1421	Construction of rail link from Serafina Corrêa to Protásio Alves	66,0 km	Serafina Corrêa, RS	Protásio Alves, RS	
		1422	Construction of rail link from Triunfo to Pelotas	280,0 km	Triunfo, RS	Pelotas, RS	
		1423	Construction of Candiota branch rail line	18,0 km	Candiota, RS	Hulha Negra, RS	
	Railway construction	1440	Construction of South Coastal railway from Porto Alegre to Torres	209,4 km	Porto Alegre, RS	Torres, RS	
		1471	Construction of branch line from Estrela to Rio Pardo	80,0 km	Estrela, RS	Rio Pardo, RS	
		1473	Construction of Santa Maria Rail Bypass	6,0 km	Santa Maria, RS	Santa Maria, RS	
		1475	Construction of Pelotas Rail Bypass	7,2 km	Pelotas, RS	Rio Grande, RS	
		1481	Construction of rail link from Colinas to Caxias do Sul	92,2 km	Colinas, RS	Caxias do Sul, RS	
		1726	Construction of Uruguaiana Rail Bypass	5,9 km	Uruguaiana, RS	Uruguaiana, RS	
		1727	Construction of Rio Grande Rail Bypass	21,0 km	Rio Grande, RS	Rio Grande, RS	
		Construction of metro or urban train	0884	Construction of metro line from Centro to Zona Sul in Porto Alegre	11,0 km	Porto Alegre, RS	Porto Alegre, RS
			0885	Construction of metro line in Porto Alegre	14,9 km	Porto Alegre, RS	Porto Alegre, RS
		Construction of monorail or LRT or atmospheric railway	1080	Construction of atmospheric railway lines in Canoas	18,0 km	Canoas, RS	Canoas, RS



Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Rail	Elimination of bottlenecks	1706	Removal of right of way intrusions in Canoas	2 un	Canoas, RS	Canoas, RS	
		1738	Removal of level crossing in Capão do Leão	1 un	Capão do Leão, RS	Capão do Leão, RS	
		1739	Removal of level crossing in Santa Maria	1 un	Santa Maria, RS	Santa Maria, RS	
		3191	Removal of right of way intrusions in Uruguaiiana	15 un	Uruguaiiana, RS	Uruguaiiana, RS	
		3192	Removal of right of way intrusions in Alegrete	6 un	Alegrete, RS	Alegrete, RS	
		3193	Removal of right of way intrusion in Cacequi	1 un	Cacequi, RS	Cacequi, RS	
		3194	Removal of right of way intrusions in Pedro Osório	2 un	Pedro Osório, RS	Pedro Osório, RS	
		3195	Removal of right of way intrusions in Capão do Leão	2 un	Capão do Leão, RS	Capão do Leão, RS	
		3196	Removal of right of way intrusions in Pelotas	3 un	Pelotas, RS	Pelotas, RS	
		3197	Removal of right of way intrusions in Dilermando de Aguiar	2 un	Dilermando de Aguiar, RS	Dilermando de Aguiar, RS	
		3198	Removal of right of way intrusions in Santa Maria	9 un	Santa Maria, RS	Santa Maria, RS	
		3199	Removal of right of way intrusion in Rio Pardo	1 un	Rio Pardo, RS	Rio Pardo, RS	
		3200	Removal of right of way intrusion in Triunfo	1 un	Triunfo, RS	Triunfo, RS	
		Restoration of railway	1413	Restoration of rail link from Cacequi to Rio Grande	896,0 km	Cacequi, RS	Rio Grande, RS
			1416	Restoration of rail link from Cruz Alta to Itaara	150,0 km	Cruz Alta, RS	Itaara, RS
	1417		Restoration of rail link from Porto Alegre to Uruguaiiana	800,0 km	Porto Alegre, RS	Uruguaiiana, RS	
	1418		Restoration of rail link from Roca Sales to Triunfo	136,0 km	Roca Sales, RS	Triunfo, RS	
	1424		Restoration of passenger train railway from Bento Gonçalves to Caxias do Sul	65,0 km	Bento Gonçalves, RS	Caxias do Sul, RS	

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Rail	Restoration of railway	1472	Restoration of rail link from Passo Fundo to Roca Sales	157,0 km	Passo Fundo, RS	Roca Sales, RS
		1476	Restoration of Passo Fundo - Porto União railway from Marcelino Ramos to Passo Fundo	172,4 km	Marcelino Ramos, RS	Passo Fundo, RS
Waterway	Waterway adjustment	0218	Dredging, signaling and beacon installation at Jacuí River waterway from Cachoeira do Sul to Porto Alegre	330,0 km	Cachoeira do Sul, RS	Porto Alegre, RS
		0220	Adjustment of Santa Vitória do Palmar Mirim Lagoon Waterway to Rio Grande	202,0 km	Santa Vitória do Palmar, RS	Rio Grande, RS
		0232	Adjustment of São Gonçalo Channel from Rio Grande to Pelotas	70,0 km	Rio Grande, RS	Pelotas, RS
		0440	Dredging, signaling and beacon installation at Taquari River waterway from Estrela to Triunfo	86,0 km	Estrela, RS	Triunfo, RS
		1349	Dredging of Uruguai River waterway from São Borja to Barra do Quaraí	240,0 km	São Borja, RS	Barra do Quaraí, RS
		2937	Dredging, signaling and beacon installation at Caí River waterway from São Sebastião do Caí to Triunfo	75,0 km	São Sebastião do Caí, RS	Triunfo, RS
		2939	Dredging, signaling and beacon installation at São Leopoldo a Canoas Sinos River Waterway	44,0 km	São Leopoldo, RS	Canoas, RS
		2941	Dredging, signaling and beacon installation at Gravataí River waterway from Cachoeirinha to Porto Alegre	15,0 km	Cachoeirinha, RS	Porto Alegre, RS
		2942	Dredging, signaling and beacon installation at waterways of Lago Guaíba, Lagoa dos Patos and Lagoa do Casamento from Porto Alegre to Rio Grande	525,0 km	Porto Alegre, RS	Rio Grande, RS
		2948	Dredging, signaling and beacon installation at Jaguarão River waterway in Jaguarão	40,0 km	Jaguarão, RS	Jaguarão, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Waterway	Waterway adjustment	2951	Dredging of Ibicuí River waterway from Cacequi to Uruguaiana	291,0 km	Cacequi, RS	Uruguaiana, RS
	Cargo riverboat	0206	Modernization of Amarópolis sluice on Jacuí River waterway	1 un	General Câmara, RS	Butiá, RS
		0207	Modernization of Fandango sluice on Jacuí River waterway	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS
		0507	Modernization of Anel de Dom Marco sluice on Jacuí River waterway	1 un	Rio Pardo, RS	Rio Pardo, RS
		2935	Modernization of Bom Retiro do Sul sluice on Taquari River waterway	1 un	Bom Retiro do Sul, RS	Cruzeiro do Sul, RS
		2949	Construction of dam and sluice on Taquari River waterway	1 un	Venâncio Aires, RS	Taquari, RS
		3077	Duplication of Amarópolis sluice on Jacuí River waterway	1 un	General Câmara, RS	Butiá, RS
		3078	Duplication of Anel de Dom Marco sluice on Jacuí River waterway	1 un	Rio Pardo, RS	Pantano Grande, RS
		3080	Duplication of Bom Retiro do Sul sluice on Taquari River waterway	1 un	Bom Retiro do Sul, RS	Cruzeiro do Sul, RS
Port	Waterway access to port	2070	Dredging of access channel at Port of Rio Grande	18.000.000,0 m <sup>3</sup>	Rio Grande, RS	Rio Grande, RS
	Land access to port	2046	Paving of access road to Port of Porto Alegre	2,8 km	Porto Alegre, RS	Porto Alegre, RS
		2068	Construction of dry land connection between Rio Grande and São José do Norte	6,0 km	Rio Grande, RS	São José do Norte, RS
		2044	Implementation of port facilities at Navegantes Pier in Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
	Port area	2045	Expansion of Marcílio Dias Pier at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2048	Adjustment of Mauá, Navegantes and Marcílio Dias piers at Port of Porto Alegre	3 un	Porto Alegre, RS	Porto Alegre, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Port	Port area	2049	Adjustment of surface of Navegantes Pier at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2064	Construction of new pier at Super Port of Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2066	Construction of multipurpose pier at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2067	Construction of berthing dolphin at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2072	Adjustment of berth at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2073	Adjustment of East Mole at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2123	Expansion of port area of Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2124	Construction of container terminal at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2388	Adjustment of Port of Pelotas	1 un	Pelotas, RS	Pelotas, RS
		2873	Construction of new berths in São José do Norte at Port of Rio Grande	1 un	São José do Norte, RS	São José do Norte, RS
	2877	Implementation of VTMS at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS	
	Port construction	2047	Construction of container terminal at Port of Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		2069	Construction of 2069 forest product terminal at Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
		2876	Construction of port terminal at Terrapleno Leste Island in Port of Rio Grande	1 un	Rio Grande, RS	Rio Grande, RS
Road	Adjustment of express lane or BRT or RTM	0882	Implementation of Corridor Operations Monitoring System in Porto Alegre	1 un	Porto Alegre, RS	Porto Alegre, RS
		3594	Adjustment of preferential bus lanes in Caxias do Sul	2,6 km	Caxias do Sul, RS	Caxias do Sul, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	0086	Implementation of signs on BR-472 from São Borja to Uruguaiana	176,8 km	São Borja, RS	Uruguaiana, RS
		0802	Implementation of additional lane on BR-377 in Cruz Alta and Ibirubá	10,0 km	Cruz Alta, RS	Cruz Alta, RS
		0805	Implementation of additional lane on RST-287 / BR-287 from Montenegro to Triunfo	19,0 km	Montenegro, RS	Triunfo, RS
		2353	Implementation of additional lane on RS-153 / BR-153 from Barros Cassal to Vera Cruz	23,0 km	Barros Cassal, RS	Vera Cruz, RS
		2354	Implementation of additional lane on BR-158 from Jaboticaba to Cruz Alta	86,0 km	Jaboticaba, RS	Cruz Alta, RS
		2355	Implementation of additional lane on BR-287 from São Vicente do Sul to Santiago	40,0 km	São Vicente do Sul, RS	Santiago, RS
		2356	Implementation of additional lane on BR-386 from Jaboticaba to Sarandi	51,0 km	Jaboticaba, RS	Sarandi, RS
		2357	Implementation of additional lane on BR-392 from Santo Ângelo to Porto Xavier	20,0 km	Santo Ângelo, RS	Porto Xavier, RS
		2358	Implementation of additional lane on BR-468 from Palmeira das Missões to São Martinho	30,0 km	Palmeira das Missões, RS	São Martinho, RS
		2569	Adjustment of crossing on BR-158 and BR-287 in Santa Maria	14,5 km	Santa Maria, RS	Santa Maria, RS
		2667	Implementation of signs on RST-392/BR-392 road from Entre-Ijuís to Santo Ângelo	21,0 km	Entre-Ijuís, RS	Santo Ângelo, RS
		2668	Implementation of additional lane on BR-470 from Nova Prata to Garibaldi	11,0 km	Nova Prata, RS	Garibaldi, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
		2833	Construction of 2nd bridge on BR-116 over Guaíba River in Porto Alegre	12,3 km	Porto Alegre, RS	Porto Alegre, RS
		3779	Implementation of signs on BR-101 from Dom Pedro de Alcântara to Terra de Areia	30,3 km	Dom Pedro de Alcântara, RS	Terra de Areia, RS
		3796	Adjustment of BR-116 from Novo Hamburgo to Porto Alegre	32,7 km	Novo Hamburgo, RS	Porto Alegre, RS
		3808	Construction of bridge on BR-116 over Jaguarão River in Jaguarão	13,0 km	Jaguarão, RS	Jaguarão, RS
		3814	Implementation of additional lane on RST-153/BR-153 from Passo Fundo to Tio Hugo	28,0 km	Passo Fundo, RS	Tio Hugo, RS
		3817	Implementation of signs on BR-153 from Novo Cabrais to Cachoeira do Sul	61,5 km	Novo Cabrais, RS	Cachoeira do Sul, RS
Road	Road adjustment	3818	Implementation of additional lane on BR-153 from Caçapava do Sul to Hulha Negra	139,0 km	Caçapava do Sul, RS	Hulha Negra, RS
		3820	Implementation of signs on BR-158 road from Iraí to Frederico Westphalen	40,5 km	Iraí, RS	Frederico Westphalen, RS
		3828	Implementation of signs on BR-158 from Santa Maria to Rosário do Sul	115,5 km	Santa Maria, RS	Rosário do Sul, RS
		3830	Implantation of signs on BR-285 road from Entre-Ijuís to São Borja	188,5 km	Entre-Ijuís, RS	São Borja, RS
		3831	Implementation of additional lane on BR-285 from Vacaria a Passo Fundo	168,0 km	Vacaria, RS	Passo Fundo, RS
		3833	Implementation of additional lane on BR-285 from Santa Bárbara do Sul to Panambi	24,0 km	Santa Bárbara do Sul, RS	Panambi, RS
		3834	Implementation of signs on BR-285 from Carazinho to Santa Bárbara do Sul	51,2 km	Carazinho, RS	Santa Bárbara do Sul, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3835	Implementation of signs on BR-285 of São José dos Ausentes to Vacaria	105,0 km	São José dos Ausentes, RS	Vacaria, RS
		3839	Implementation of signs on BR-287 from Santiago to São Borja	132,7 km	Santiago, RS	São Borja, RS
		3840	Implementation of signs on BR-287 from Santa Maria to São Vicente do Sul	78,8 km	Santa Maria, RS	São Vicente do Sul, RS
		3845	Implementation of signs on BR-153 and BR-290 from Cachoeira do Sul to São Sepé	72,7 km	Cachoeira do Sul, RS	São Sepé, RS
		3846	Implementation of additional lane on BR-290 from São Sepé to São Gabriel	79,0 km	São Sepé, RS	São Gabriel, RS
		3847	Implementation of signs on BR-290 from São Gabriel to Rosário do Sul	49,7 km	São Gabriel, RS	Rosário do Sul, RS
		3854	Implementation of signs on BR-290 from Alegrete to Uruguaiana	79,3 km	Alegrete, RS	Uruguaiana, RS
		3856	Implementation of signs on BR-293 from Sant'Ana do Livramento to Quaraí	108,5 km	Sant'Ana do Livramento, RS	Quaraí, RS
		3857	Implementation of additional lane on BR-293 from Capão do Leão to Hulha Negra	124,0 km	Capão do Leão, RS	Hulha Negra, RS
		3871	Implementation of signs on RST-453 / BR-453 from Farroupilha to Caxias do Sul	17,8 km	Farroupilha, RS	Caxias do Sul, RS
		3878	Implementation of signs on BR-468 from São Martinho to Três Passos	38,5 km	São Martinho, RS	Três Passos, RS
		3879	Implementation of additional lane on BR-468 from Três Passos to Tiradentes do Sul	36,0 km	Três Passos, RS	Tiradentes do Sul, RS
		3880	Implementation of additional lane on BR-470 from Barracão to Lagoa Vermelha	60,0 km	Barracão, RS	Lagoa Vermelha, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road adjustment	3889	Implementation of additional lane on RST-472 / BR-472 from Frederico Westphalen to Três Passos	62,0 km	Frederico Westphalen, RS	Três Passos, RS
		3890	Implementation of signs on RS-344 / BR-472, BR-472 and RST-472 / BR-472 from Santa Rosa to Porto Xavier	79,0 km	Santa Rosa, RS	Porto Xavier, RS
		3894	Construction of bridge on BR-472 over Ibicuí River from Itaqui to Uruguaiana	6,2 km	Itaqui, RS	Uruguaiana, RS
		3898	Construction of bridge on BR-392 over Uruguai River in Porto Xavier	0,9 km	Porto Xavier, RS	Porto Xavier, RS
		3899	Implementation of additional lane on RST-480/BR-480 from Nonoai to Erechim	59,0 km	Nonoai, RS	Erechim, RS
		3904	Implementation of signs on RS-030 and RS-786 from Osório to Tramandaí	20,0 km	Osório, RS	Tramandaí, RS
		3905	Implementation of signs on RS-040 from Porto Alegre to Viamão	11,8 km	Porto Alegre, RS	Viamão, RS
		3908	Implementation of signs on RS-223 from Tio Hugo to Cruz Alta	78,6 km	Tio Hugo, RS	Cruz Alta, RS
		3912	Implementation of signs on RS-734 in Rio Grande	21,7 km	Rio Grande, RS	Rio Grande, RS
	3964	Construction of bridge on BR-470 over Jacuí River from Triunfo to São Jerônimo	0,9 km	Triunfo, RS	São Jerônimo, RS	
	Urban road adjustment	0879	Revitalization of north access to dry port in Porto Alegre	1,7 km	Porto Alegre, RS	Porto Alegre, RS
		1072	Construction of flyover between Avenidas Plínio Brasil Milano and Carlos Gomes in Porto Alegre	0,4 km	Porto Alegre, RS	Porto Alegre, RS
		1073	Construction of flyover between Avenidas Anita Garibaldi and Carlos Gomes in Porto Alegre	0,2 km	Porto Alegre, RS	Porto Alegre, RS



Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Urban road adjustment	1074	Construction of overpass between Avenidas Christopher Columbus and III Perimetral in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS
		1075	Construction of flyover between Avenidas Ceará and Farrapos in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS
		1078	Construction of Bus Station Complex in Porto Alegre	0,3 km	Porto Alegre, RS	Porto Alegre, RS
		1095	Adjustment of Avenida Ernesto Neugebauer in Porto Alegre	2,7 km	Porto Alegre, RS	Porto Alegre, RS
	Road construction	2282	Construction of BR-392 from Tupanciretã to Entre-Ijuís	135,6 km	Tupanciretã, RS	Entre-Ijuís, RS
		2457	Construction of RS-010 from Porto Alegre to Sapiranga	42,0 km	Porto Alegre, RS	Sapiranga, RS
		3810	Construction of BR-448 from Estância Velha to Esteio	32,0 km	Estância Velha, RS	Esteio, RS
	Urban road construction	1071	Expansion of Avenida Severo Dullius in Porto Alegre	2,4 km	Porto Alegre, RS	Porto Alegre, RS
		1082	Paving of urban roads in Pelotas	16,1 km	Pelotas, RS	Pelotas, RS
	Urban road construction	2811	Construction of Avenidas Metropolitana East and Metropolitana West in Porto Alegre Metropolitan Region	52,0 km	Canoas, RS	Novo Hamburgo, RS
	Road duplication	0078	Duplication of BR-116 from Vacaria to Estância Velha	224,6 km	Vacaria, RS	Estância Velha, RS
		0081	Duplication of BR-153 from Marcelino Ramos to Erechim	53,3 km	Marcelino Ramos, RS	Erechim, RS
		0084	Duplication of BR-153 and BR-285 from Passo Fundo to Carazinho	41,1 km	Passo Fundo, RS	Carazinho, RS
		0085	Duplication of BR-285 from Panambi to Entre-Ijuís	82,9 km	Panambi, RS	Entre-Ijuís, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Road duplication	0118	Duplication of BR-392 from Pelotas to Santa Maria	277,8 km	Pelotas, RS	Santa Maria, RS
		0197	Duplication of BR-386 from Estrela to Tabaí	34,8 km	Estrela, RS	Tabaí, RS
		0600	Duplication of BR-392 from Rio Grande to Pelotas	60,6 km	Rio Grande, RS	Pelotas, RS
		2293	Duplication of BR-158 from Cruz Alta to Santa Maria	124,2 km	Cruz Alta, RS	Santa Maria, RS
		2294	Duplication of BR-290 from Eldorado do Sul to Cachoeira do Sul	155,6 km	Eldorado do Sul, RS	Cachoeira do Sul, RS
		2295	Duplication of RS-030 from Gravataí to Santo Antônio da Patrulha	51,5 km	Gravataí, RS	Santo Antônio da Patrulha, RS
		2359	Duplication of RST-471 / BR-471 from Pantano Grande to Canguçu	135,7 km	Pantano Grande, RS	Canguçu, RS
		2367	Duplication of BR-386 from Carazinho to Lajeado	165,9 km	Carazinho, RS	Lajeado, RS
		2570	Duplication of RST-453/ BR-453 and RS-486 from Caxias do Sul to Terra de Areia	148,2 km	Caxias do Sul, RS	Terra de Areia, RS
		3797	Duplication of BR-116 from Guaíba to Pelotas	211,2 km	Guaíba, RS	Pelotas, RS
		3807	Duplication of Pelotas Bypass on BR-116 and BR-392	23,7 km	Pelotas, RS	Pelotas, RS
		3812	Duplication of BR-386 from Sarandi to Carazinho	44,7 km	Sarandi, RS	Carazinho, RS
		3821	Duplication of BR-158 from Frederico Westphalen to Jaboticaba	32,2 km	Frederico Westphalen, RS	Jaboticaba, RS
		3874	Duplication of RST-453 / BR-453 in Caxias do Sul	10,9 km	Caxias do Sul, RS	Caxias do Sul, RS
		Duplication of urban road	0870	Duplication of Avenida Vicente Monteggia in Porto Alegre	3,0 km	Porto Alegre, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Implementation of express lane or BRT or RTM	0873	Implementation of Avenida Tronco Corridor in Porto Alegre	5,3 km	Porto Alegre, RS	Porto Alegre, RS
		0875	Implementation of BRT on Avenida Protásio Alves in Porto Alegre	7,5 km	Porto Alegre, RS	Porto Alegre, RS
		0877	Implementation of preferential bus lanes on Avenidas Padre Cacique and Edvaldo Pereira Paiva in Porto Alegre	5,8 km	Porto Alegre, RS	Porto Alegre, RS
		1070	Implementation of BRT on Avenida Bento Gonçalves in Porto Alegre	6,5 km	Porto Alegre, RS	Porto Alegre, RS
		1076	Implementation of BRT on Avenida João Pessoa in Porto Alegre	3,2 km	Porto Alegre, RS	Porto Alegre, RS
		1077	Implementation of preferential bus lane at Rua Voluntários da Pátria in Porto Alegre	3,5 km	Porto Alegre, RS	Porto Alegre, RS
		1081	Implementation and restoration of preferential bus lanes in Pelotas	10,0 km	Pelotas, RS	Pelotas, RS
		1083	Implementation of BRT in Santa Maria	43,2 km	Santa Maria, RS	Santa Maria, RS
		1490	Implementation of preferential bus lanes on Avenida Edgar Pires de Castro in Porto Alegre	4,5 km	Porto Alegre, RS	Porto Alegre, RS
		2812	Implementation of preferential lanes and preferential bus lanes in the Metropolitan Region of Porto Alegre	57,3 km	Novo Hamburgo, RS	Viamão, RS
	Paving of road	0189	Paving of RST-481 / BR-481 from Sobradinho to Cerro Branco	43,5 km	Sobradinho, RS	Cerro Branco, RS
		3837	Paving of BR-285 in São José dos Ausentes	10,6 km	São José dos Ausentes, RS	São José dos Ausentes, RS
		Restoration of pavement on road	2484	Restoration of pavement on RS-241 from São Francisco de Assis to São Vicente do Sul	49,3 km	São Francisco de Assis, RS
	2514		Restoration of pavement on RS-324 from Passo Fundo to Casca	69,8 km	Passo Fundo, RS	Casca, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	2515	Restoration of pavement on RS-342 from Ijuí to Cruz Alta	45,0 km	Ijuí, RS	Cruz Alta, RS
		2662	Restoration of pavement on RST-101 / BR-101 from Osório to São José do Norte	274,1 km	Osório, RS	São José do Norte, RS
		2664	Restoration of pavement on BR-293 from Hulha Negra to Bagé	17,3 km	Hulha Negra, RS	Bagé, RS
		2665	Restoration of pavement on RST-377 / BR-377 from Jóia to Alegrete	233,2 km	Jóia, RS	Alegrete, RS
		2666	Restoration of pavement on BR-386 from Tabaí to Canoas	61,5 km	Tabaí, RS	Canoas, RS
		2673	Restoration of pavement on BR-471 from Rio Grande to Chuí	193,3 km	Rio Grande, RS	Chuí, RS
		2681	Restoration of pavement on BR-471 from Santa Cruz do Sul to Pantano Grande	69,6 km	Santa Cruz do Sul, RS	Pantano Grande, RS
		3778	Restoration of pavement on BR-101 in São José do Norte	36,7 km	São José do Norte, RS	São José do Norte, RS
		3815	Restoration of pavement on RS-332 / BR-153 from Soledade to Barros Cassal	41,0 km	Soledade, RS	Barros Cassal, RS
		3819	Restoration of pavement on BR-153 from Hulha Negra to Aceguá	68,5 km	Hulha Negra, RS	Aceguá, RS
		3841	Restoration of pavement on RST-287 / BR-287 from Agudo to Santa Maria	46,8 km	Agudo, RS	Santa Maria, RS
		3860	Restoration of pavement on RST-377 / BR-377 from Uruguaiana to Quaraí	47,8 km	Uruguaiana, RS	Quaraí, RS
		3876	Restoration of pavement on RST-453 / BR-453 from Garibaldi to Farroupilha	20,4 km	Garibaldi, RS	Farroupilha, RS
		3888	Restoration of pavement on BR-470 from Triunfo to São Jerônimo	42,9 km	Triunfo, RS	São Jerônimo, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Restoration of pavement on road	3892	Restoration of pavement on BR-472 from Uruguaiana to Barra do Quaraí	73,3 km	Uruguaiana, RS	Barra do Quaraí, RS
		3901	Restoration of pavement on RST-481 / BR-481 from Cruz Alta to Sobradinho	114,8 km	Cruz Alta, RS	Sobradinho, RS
		3902	Restoration of pavement on RS-020 from Taquara to Três Coroas	18,1 km	Taquara, RS	Três Coroas, RS
		3903	Restoration of pavement on RS-030/BR-101 and RS-030 from Osório to Santo Antônio da Patrulha	31,4 km	Osório, RS	Santo Antônio da Patrulha, RS
		3906	Restoration of pavement on RS-128 from Fazenda Vilanova to Teutônia	16,0 km	Fazenda Vilanova, RS	Teutônia, RS
		3909	Restoration of pavement on BR-470 and RS-446 from Garibaldi to São Vendelino	19,2 km	Garibaldi, RS	São Vendelino, RS
		3911	Restoration of pavement on RS-640 from São Vicente do Sul to Rosário do Sul	62,7 km	São Vicente do Sul, RS	Rosário do Sul, RS
		3913	Restoration of pavement on RS-786 from Tramandaí to Cidreira	17,5 km	Tramandaí, RS	Cidreira, RS
Terminal	Terminal adjustment	0490	Expansion of Uruguaiana rail freight terminal	1 un	Uruguaiana, RS	Uruguaiana, RS
		1895	Expansion and adjustment of Cachoeira do Sul waterway cargo terminal	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS
		2389	Adjustment of Estrela intermodal cargo terminal Estrela	1 un	Estrela, RS	Estrela, RS
		2391	Adjustment of Cachoeira do Sul waterway cargo terminal	1 un	Cachoeira do Sul, RS	Cachoeira do Sul, RS
		3066	Adjustment of Pelotas railway terminal	1 un	Pelotas, RS	Pelotas, RS

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	0483	Construction of waterway cargo terminal in Jaguarão	1 un	Jaguarão, RS	Jaguarão, RS
		0486	Construction of waterway cargo terminal in Santa Vitória de Palmar	1 un	Santa Vitória do Palmar, RS	Santa Vitória do Palmar, RS
		1805	Terminal construction ferroviário de cargas em Passo Fundo	1 un	Passo Fundo, RS	Passo Fundo, RS
		1807	Terminal construction ferroviário de cargas em Bagé	1 un	Bagé, RS	Bagé, RS
		1811	Construction of waterway cargo terminal in São Borja	1 un	São Borja, RS	São Borja, RS
		1812	Construction of waterway cargo terminal in Uruguaiana	1 un	Uruguaiana, RS	Uruguaiana, RS
		1846	Construction of waterway cargo terminal in São Sebastião de Caí	1 un	São Sebastião do Caí, RS	São Sebastião do Caí, RS
		1847	Construction of waterway cargo terminal in Montenegro	1 un	Montenegro, RS	Montenegro, RS
		1848	Construction of waterway cargo terminal in Arambaré	1 un	Arambaré, RS	Arambaré, RS
		1849	Construction of waterway cargo terminal in Dona Francisca	1 un	Dona Francisca, RS	Dona Francisca, RS
		1850	Construction of waterway cargo terminal in Restinga Seca	1 un	Restinga Seca, RS	Restinga Seca, RS
		1885	Construction of waterway cargo terminal in Guaíba	1 un	Guaíba, RS	Guaíba, RS
		1886	Construction of waterway cargo terminal in Mostardas	1 un	Mostardas, RS	Mostardas, RS
		1887	Construction of waterway cargo terminal in Palmares de Sul	1 un	Palmares do Sul, RS	Palmares do Sul, RS
1888	Construction of waterway cargo terminal in Rio Pardo	1 un	Rio Pardo, RS	Rio Pardo, RS		

Table 116 - List of projects - Rio Grande do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Terminal	Terminal construction	1889	Construction of waterway cargo terminal in São Jerônimo	1 un	São Jerônimo, RS	São Jerônimo, RS
		1890	Construction of waterway cargo terminal in São Lourenço de Sul	1 un	São Lourenço do Sul, RS	São Lourenço do Sul, RS
		1891	Construction of waterway cargo terminal in Tapes	1 un	Tapes, RS	Tapes, RS
		1893	Construction of waterway cargo terminal in Tavares	1 un	Tavares, RS	Tavares, RS
		2836	Construction of parking lot for cargo vehicles in Porto Alegre Metropolitan Region	1 un	Porto Alegre, RS	Porto Alegre, RS
		3084	Construction of waterway passenger terminal in Arambaré	1 un	Arambaré, RS	Arambaré, RS
		3106	Construction of Arroito Terminal in Santa Vitória de Palmar	1 un	Santa Vitória do Palmar, RS	Santa Vitória do Palmar, RS
		3109	Construction of Barra Falsa Terminal in São José de Norte	1 un	São José do Norte, RS	São José do Norte, RS

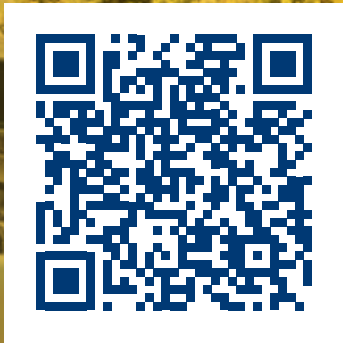
Table 117 - Minimum Investment - Rio Grande do Sul

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	13 un	3.864.822.339,10
	Airport construction	1 un	201.917.856,17
Rail	Acquisition and improvement of rolling stock	15 un	61.281.093,07
	Railway construction	1.748,6 km	26.267.883.058,02
	Construction of metro or urban train	25,9 km	12.494.003.885,13
	Construction of monorail or LRT or atmospheric railway	18,0 km	971.504.136,35
	Elimination of bottlenecks	46 un	19.483.432,84
	Restoration of railway	2.376,4 km	12.935.253.941,09
Waterway	Waterway adjustment	1.918,0 km	861.306.226,79
	Cargo riverboat	8 un	873.215.113,88
Port	Waterway access to port	18.000.000,0 m³	571.553.647,61
	Land access to port	8,8 km	569.334.784,39
	Port area	16 un	2.565.254.532,21
	Port construction	3 un	14.352.501.321,91
Road	Adjustment of express lane or BRT or RTM	2,6 km	38.584.285,37
		1 un	27.135.948,91
	Road adjustment	2.728,9 km	5.567.871.208,70
	Urban road adjustment	5,9 km	212.230.639,22
	Road construction	209,6 km	1.330.960.628,71
	Urban road construction	70,5 km	1.736.211.809,28
Road	Road duplication	1.878,9 km	19.484.948.117,35
	Duplication of urban road	3,0 km	211.924.420,09
	Implementation of express lane or BRT or RTM	146,8 km	1.942.954.215,85
	Paving of road	54,1 km	317.531.659,67
	Restoration of pavement on road	1.670,2 km	5.499.807.937,83
Terminal	Terminal adjustment	5 un	97.123.613,49
	Terminal construction	23 un	796.558.842,64
<b>Total</b>			<b>113.873.158.695,67</b>



# CENTRAL-WEST REGION

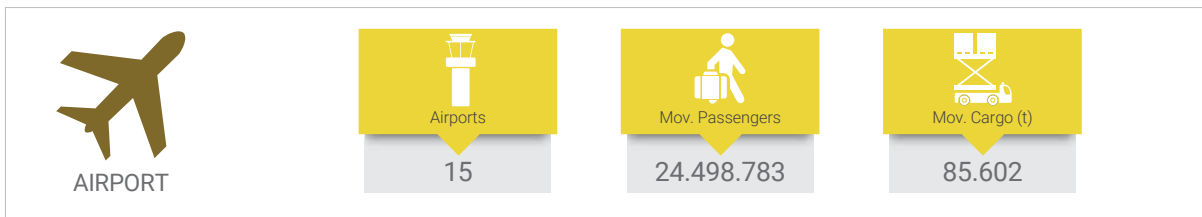
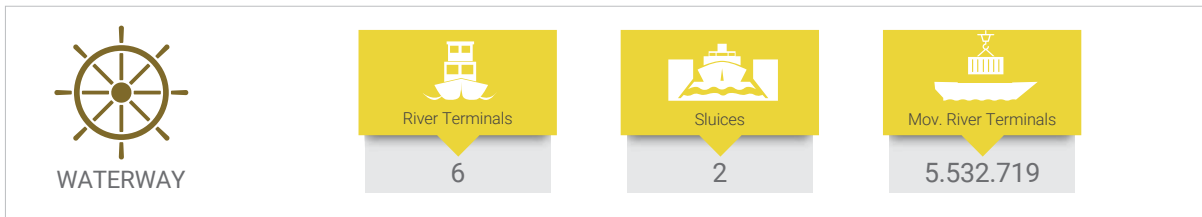
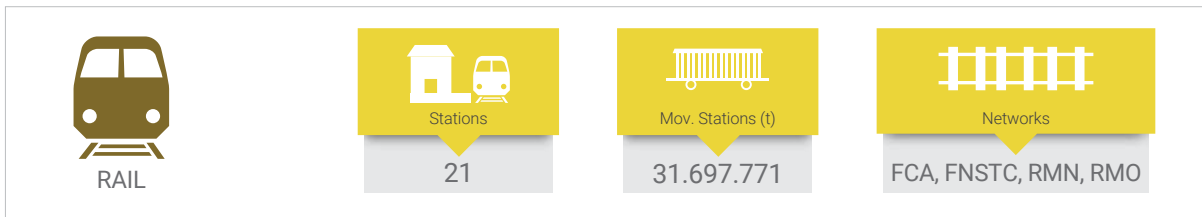
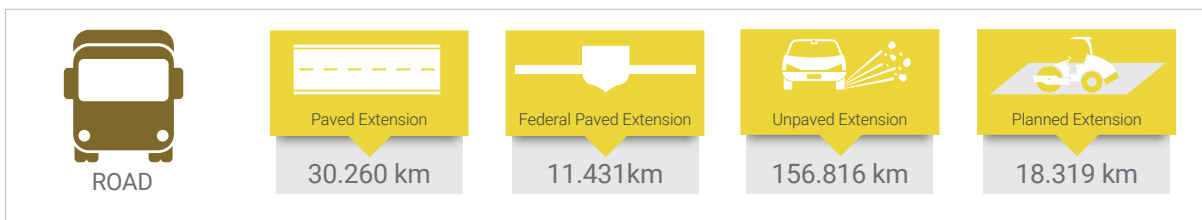
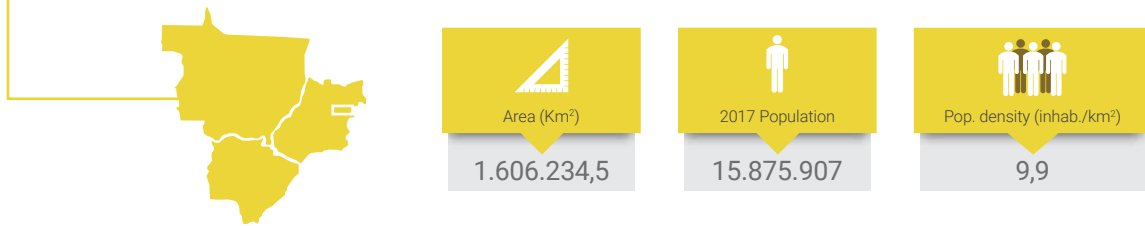
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Access the  
Central-West Region  
content via the  
**QR CODE** above



## 7.5 CENTRAL-WEST REGION



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway, FNSTC - North-South Railway - Central Line; NMR - Rumo Malha Norte Network; RMO - Rumo Malha Oeste Network.

Table 118 - Number of interventions and minimum investment required, by Corridor, for the Central-West Region

Corridor	Airport	Waterway	Rail	Waterway	Port	Road	Terminal	Total	Minimum Investment (R\$)
E1	-	-	-	-	-	-	-	-	-
E2	-	-	-	-	-	-	-	-	-
E3	4	-	10	28	-	35	13	90	88.304.523.813,28
E4	-	-	-	-	-	-	-	-	-
E5	20	-	1	9	-	26	16	72	43.395.340.138,80
E6	3	-	16	6	-	10	7	42	31.160.589.554,91
E7	5	-	2	1	-	42	5	55	56.186.168.228,12
E8	-	-	6	-	-	-	-	6	9.206.979.213,88
E9	-	-	-	-	-	-	-	-	-
U	-	1	9	-	-	16	1	27	31.953.073.080,60
<b>Total</b>	<b>32</b>	<b>1</b>	<b>44</b>	<b>44</b>	<b>-</b>	<b>129</b>	<b>42</b>	<b>292</b>	<b>260.206.674.029,59</b>

Table 119 - Minimum Investment - Central-West Region

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	23 un	950.724.757,89
	Airport construction	9 un	342.870.767,19
Waterway	Implementation of waterway transportation corridor	12,0 km	34.621.108,48
Rail	Railway construction	5.730,5 km	61.909.659.446,94
	Construction of metro or urban train	44,7 km	18.768.972.569,94
	Construction of monorail or LRT or atmospheric railway	79,2 km	6.298.654.215,42
	Elimination of bottlenecks	32 un	72.991.504,20
	Restoration of railway	1.196,4 km	6.529.106.873,98
	Railway restoration - Urban	76,0 km	4.266.221.226,78
Waterway	Channel opening	3,8 km	229.009.151,54
	Waterway adjustment	10.330,0 km	29.475.803.579,11
		9 un	942.713.715,12
	Cargo riverboat	17 un	30.837.161.804,89



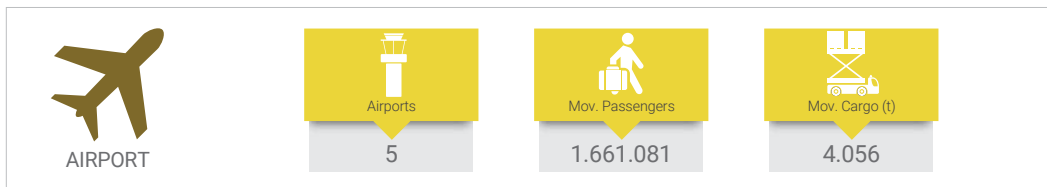
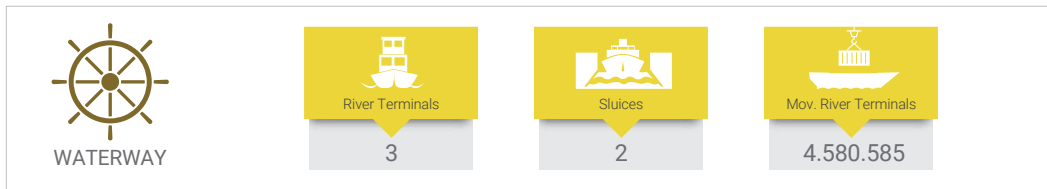
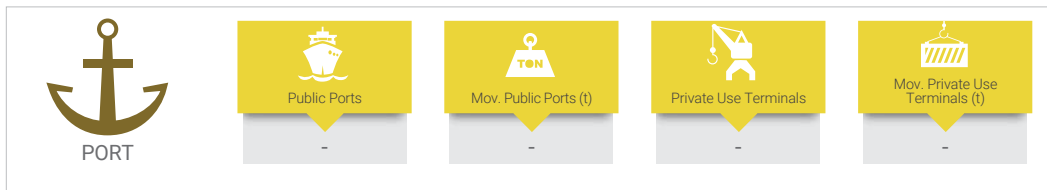
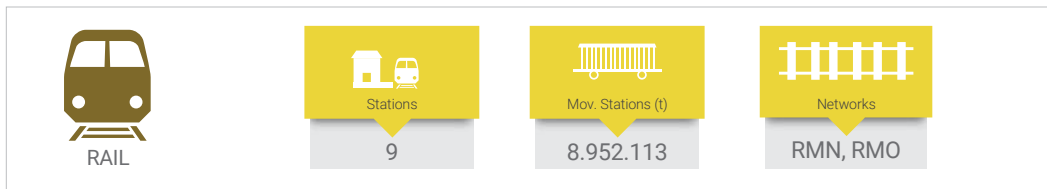
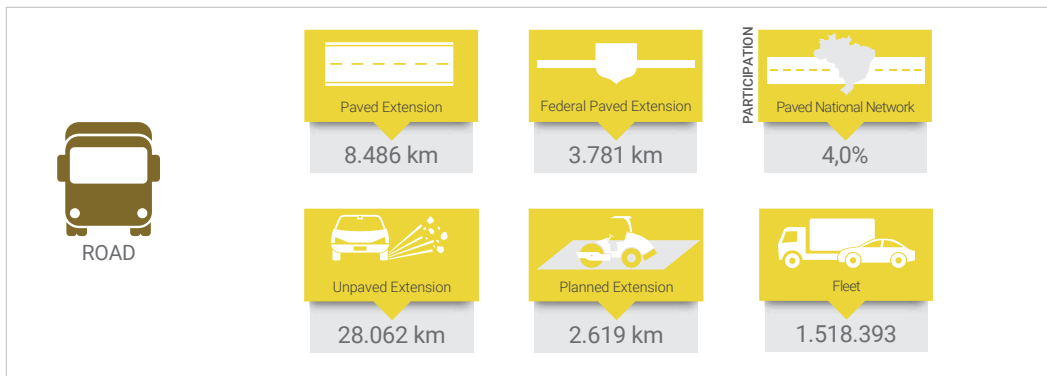
Table 119 - Minimum Investment - Central-West Region

continuation

Infrastructure	Category	Scale	Minimum Investment (R\$)
Road	Adjustment of express lane or BRT or RTM	2 un	94.492.770,71
	Road adjustment	3.496,6 km	2.289.594.354,74
	Urban road adjustment	35,6 km	54.479.621,34
	Road construction	1.787,3 km	8.149.320.219,51
	Road duplication	5.426,5 km	59.242.341.771,64
	Implementation of express lane or BRT or RTM	228,2 km	2.202.045.612,15
	Paving of road	2.994,5 km	15.383.858.943,27
	Restoration of pavement on road	2.583,7 km	8.507.875.565,18
Terminal	Terminal adjustment	3 un	62.300.585,85
	Terminal construction	38 un	3.328.267.907,94
	Terminal construction - Urban	4 un	233.585.955,78
<b>Total</b>			<b>260.206.674.029,59</b>



### 7.5.1 MATO GROSSO DO SUL



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: RMN - Rumo Malha Norte Network; RMO - Rumo Malha Oeste Network.

Table 120 - List of projects - Mato Grosso do Sul

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	0668	Expansion of Campo Grande Airport	1 un	Campo Grande, MS	Campo Grande, MS
		1523	Expansion of runway system and aircraft yard at Dourados Airport	1 un	Dourados, MS	Dourados, MS
		1568	Expansion of Ponta Porã Airport	1 un	Ponta Porã, MS	Ponta Porã, MS
		2943	Implementation of runway, aircraft yard and operations fence at Coxim Airport	1 un	Coxim, MS	Coxim, MS
		2944	Restoration of runway at Bonito Airport	1 un	Bonito, MS	Bonito, MS
		3345	Runway repair at Corumbá Airport	1 un	Corumbá, MS	Corumbá, MS
		3353	Acquisition of fire engines for Corumbá Airport	1 un	Corumbá, MS	Corumbá, MS
	Airport construction	3344	Construction of passenger terminal and expansion of aircraft yard at Dourados Airport	1 un	Dourados, MS	Dourados, MS
Rail	Railway construction	0716	Construction of Paraná-Mato Grosso do Sul rail connection from Mundo Novo to Maracaju	332,5 km	Mundo Novo, MS	Maracaju, MS
		1381	Construction of Pantanal Railway from Maracaju to Brasilândia	444,0 km	Maracaju, MS	Brasilândia, MS
	Elimination of bottlenecks	1750	Removal of level crossing in Aparecida do Taboado	1 un	Aparecida do Taboado, MS	Aparecida do Taboado, MS
		3121	Removal of right of way intrusions in Corumbá	2 un	Corumbá, MS	Corumbá, MS
		3122	Removal of right of way intrusions in Miranda	3 un	Miranda, MS	Miranda, MS
		3123	Removal of right of way intrusions in Aquidauana	6 un	Aquidauana, MS	Aquidauana, MS
		3124	Removal of right of way intrusion in Terenos	1 un	Terenos, MS	Terenos, MS
		3125	Removal of right of way intrusion in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
		3225	Removal of level crossing in Corumbá	1 un	Corumbá, MS	Corumbá, MS

Table 120 - List of projects - Mato Grosso do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Rail	Elimination of bottlenecks	3226	Removal of level crossings in Campo Grande	2 un	Campo Grande, MS	Campo Grande, MS
		3227	Removal of level crossing in Ribas do Rio Pardo	1 un	Ribas do Rio Pardo, MS	Ribas do Rio Pardo, MS
		3228	Removal of level crossing in Água Clara	1 un	Água Clara, MS	Água Clara, MS
	Restoration of railway	1436	Restoration of Santos-Cuiabá railway from Aparecida do Taboado to Costa Rica	412,7 km	Aparecida do Taboado, MS	Costa Rica, MS
		1438	Restoration of railway Corumbá-Santos railway from Corumbá to Três Lagoas	633,0 km	Corumbá, MS	Três Lagoas, MS
Waterway	Channel opening	2988-INT	Dredging of Bugre Channel on the Paraná River Waterway	3,8 km	Mundo Novo, MS	Guaíra, PR
		2918	Signaling of Paraguay River waterway from Corumbá to Porto Murtinho	590,0 km	Corumbá, MS	Porto Murtinho, MS
	Waterway adjustment	2922	Dredging of Paraguay River waterway from Corumbá to Porto Murtinho	590,0 km	Corumbá, MS	Porto Murtinho, MS
		2923	Expansion of spans on Nossa Senhora do Pantanal and Eurico Gaspar Dutra bridges on Paraguay River waterway	2 un	Corumbá, MS	Corumbá, MS
		2970	Dredging of Ivinhema River waterway from Ivinhema to Taquarussu	101,0 km	Ivinhema, MS	Taquarussu, MS
		2973	Dredging of Sucuriú River waterway from Inocência to Três Lagoas	170,0 km	Inocência, MS	Três Lagoas, MS
		2975	Dredging of Amambaí River waterway from Naviraí to Itaquiraí	73,0 km	Naviraí, MS	Itaquiraí, MS
		2976	Expansion of span and protection of pillars of BR-487 bridge on Ivaí River waterway	1 un	Naviraí, MS	Itaquiraí, MS
		1319-INT	Adjustment of Cuiabá waterway from Cuiabá to Corumbá	300,0 km	Cuiabá, MT	Corumbá, MS

Table 120 - List of projects - Mato Grosso do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	1686-INT	Dredging of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS
		2919-INT	Signaling of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS
		1339-INT	Adjustment of Paranaíba River waterway from Itumbiara to Aparecida do Taboado	504,0 km	Itumbiara, GO	Aparecida do Taboado, MS
		2995-INT	Expansion of span and protection of pillars on Francisco de Sá Bridge on Paraná River waterway	1 un	Três Lagoas, MS	Castilho, SP
		3000-INT	Expansion of span and protection of pillars on Hélio Serejo Bridge on Paraná River waterway	1 un	Bataguassu, MS	Presidente Epitácio, SP
		1335-INT	Signaling and beacon installation of waterways on Paranaíba and Paraná rivers from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR
		1321-INT	Rock removal at Pedral do Guaíra on Paraná River waterway	3,0 km	Mundo Novo, MS	Guaíra, PR
		2999-INT	Protection of pillars on Porto Camargo bridge on Paraná River waterway	1 un	Naviraí, MS	Alto Paraíso, PR
		2994-INT	Dredging of Paraná River waterway from Ilha Solteira to Foz do Iguaçu	732,0 km	Ilha Solteira, SP	Foz do Iguaçu, PR
	Cargo riverboat	3044	Construction of Salto da Laranja sluice on Sucuriú River waterway	1 un	Três Lagoas, MS	Selvíria, MS
		0202-INT	Duplication of Jupia sluice in Paraná River waterway	1 un	Três Lagoas, MS	Castilho, SP
		0208-INT	Construction of Ilha Solteira sluice on Paraná River waterway	1 un	Selvíria, MS	Ilha Solteira, SP
		1280-INT	Duplication of Porto Primavera sluice on Paraná River waterway	1 un	Batayporã, MS	Rosana, SP
		3074-INT	Modernization of Jupia sluice on Paraná River waterway	1 un	Três Lagoas, MS	Castilho, SP



Table 120 - List of projects - Mato Grosso do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Adjustment of express lane or BRT or RTM	3877	Implementation of Operations Control Center in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS	
		3891	Modernization of Integrated Management Operations Control Center in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS	
	Road adjustment	2469	Implementation of signs on MS-134 in Nova Andradina	56,7 km	Nova Andradina, MS	Nova Andradina, MS	
		2470	Implementation of signs on MS-306 from Chapadão do Sul to Cassilândia	104,3 km	Chapadão do Sul, MS	Cassilândia, MS	
		2509	Implementation of signs on MS-240 and MS-377 from Paranaíba to Água Clara	208,2 km	Paranaíba, MS	Água Clara, MS	
		2546	Implementation of signs on BR-158 from Aparecida do Taboado to Três Lagoas	128,5 km	Aparecida do Taboado, MS	Três Lagoas, MS	
		2547	Implementation of signs on BR-262 in Campo Grande	10,8 km	Campo Grande, MS	Campo Grande, MS	
		2548	Implementation of signs on BR-463 from Dourados to Ponta Porã	115,1 km	Dourados, MS	Ponta Porã, MS	
		2637	Implementation of signs on BR-376 from Dourados to Nova Andradina	176,6 km	Dourados, MS	Nova Andradina, MS	
		3929	Implementation of signs on BR-262 from Campo Grande to Corumbá	414,4 km	Campo Grande, MS	Corumbá, MS	
		3933	Implementation of signs on MS-480 from Anaurilândia to Batayporã	30,2 km	Anaurilândia, MS	Batayporã, MS	
		3939	Implementation of signs on MST-487 / BR-487 from Itaquiraí to Naviraí	52,5 km	Itaquiraí, MS	Naviraí, MS	
		Road construction	2262	Construction of BR-419 from Rio Verde de Mato Grosso to Anastácio	232,7 km	Rio Verde de Mato Grosso, MS	Anastácio, MS
			2263	Construction of MST-483 / BR-483 in Paranaíba	41,0 km	Paranaíba, MS	Paranaíba, MS
			2264	Construction of MS-040 from Brasilândia to Santa Rita do Pardo	91,0 km	Brasilândia, MS	Santa Rita do Pardo, MS

Table 120 - List of projects - Mato Grosso do Sul

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Road	Road constructions	3920	Construction of Campo Grande Ring Road on BR-060	24,0 km	Campo Grande, MS	Campo Grande, MS	
	Road duplication	2273	Duplication of BR-267 from Bataguassu to Nova Alvorada do Sul	242,9 km	Bataguassu, MS	Nova Alvorada do Sul, MS	
		2333	Duplication of BR-262 from Três Lagoas to Campo Grande	316,9 km	Três Lagoas, MS	Campo Grande, MS	
	Paving of road	3922	Duplication of BR-158 and BR-436 from Cassilândia to Aparecida do Taboado	147,5 km	Cassilândia, MS	Aparecida do Taboado, MS	
		2265	Paving of MS-324 in Água Clara	137,0 km	Água Clara, MS	Água Clara, MS	
	Restoration of pavement on road	2635	Restoration of pavement on BR-158 from Três Lagoas to Brasilândia	81,1 km	Três Lagoas, MS	Brasilândia, MS	
		2636	Restoration of pavement on BR-267 from Rio Brilhante to Guia Lopes da Laguna	179,7 km	Rio Brilhante, MS	Guia Lopes da Laguna, MS	
		2640	Restoration of pavement on MST-483/BR-483 and MST-497/BR-497 in Paranaíba	19,5 km	Paranaíba, MS	Paranaíba, MS	
		2684	Restoration of pavement on BR-060 from Campo Grande to Bela Vista	324,2 km	Campo Grande, MS	Bela Vista, MS	
		2685	Restoration of pavement on BR-060 from Chapadão do Sul to Bandeirantes	230,6 km	Chapadão do Sul, MS	Bandeirantes, MS	
		3930	Restoration of pavement on BR-267 from Jardim to Porto Murtinho	202,5 km	Jardim, MS	Porto Murtinho, MS	
		3932	Restoration of pavement on MS-134 / BR-376 and MS-276 from Nova Andradina to Anaurilândia	36,2 km	Nova Andradina, MS	Anaurilândia, MS	
		3941	Restoration of the pavement on MS-395 from Brasilândia to Bataguassu	68,3 km	Brasilândia, MS	Bataguassu, MS	
		Terminal	Terminal adjustment	0403	Adjustment of Porto Murtinho waterway cargo terminal	1 un	Porto Murtinho, MS
	1819			Adjustment of Ladário intermodal cargo terminal	1 un	Ladário, MS	Ladário, MS

Table 120 - List of projects - Mato Grosso do Sul

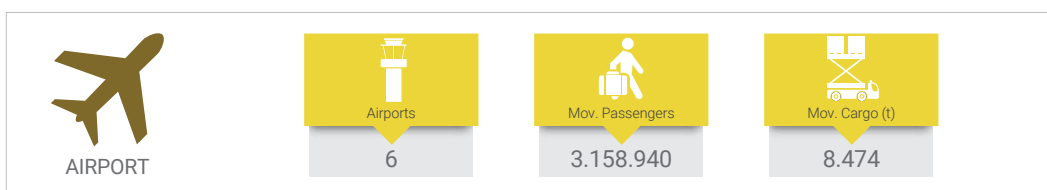
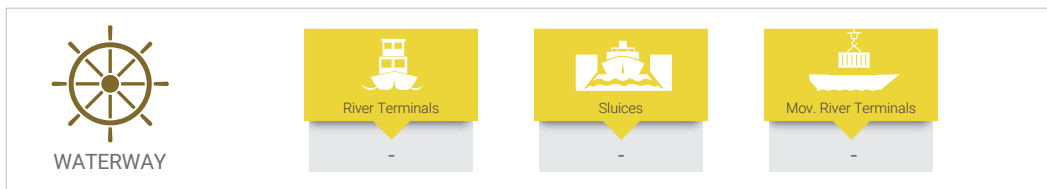
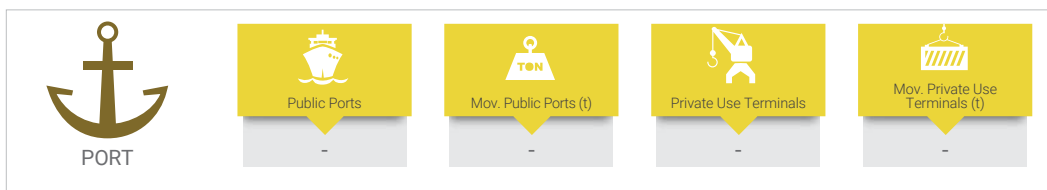
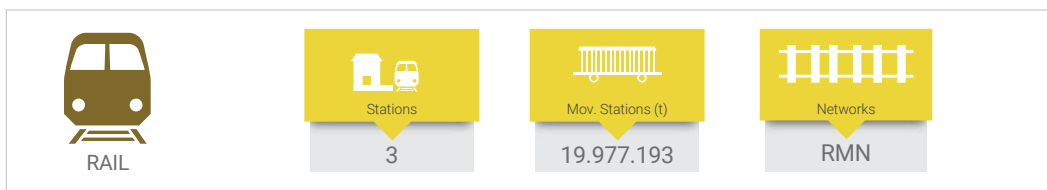
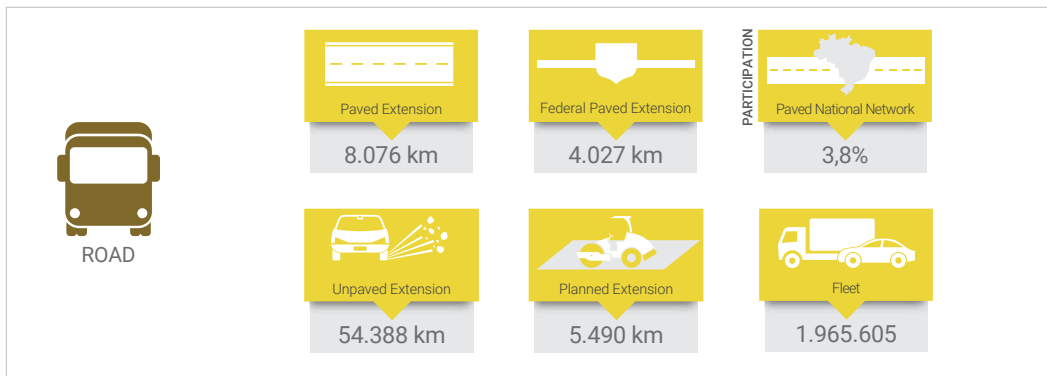
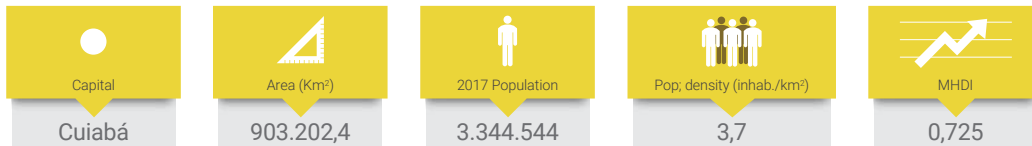
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	0400	Construction of intermodal cargo terminal in Campo Grande	1 un	Campo Grande, MS	Campo Grande, MS
		0406	Construction of intermodal cargo terminal in Três Lagoas	1 un	Três Lagoas, MS	Três Lagoas, MS
		1778	Construction of logistics platform in Dourados	1 un	Dourados, MS	Dourados, MS
		1779	Construction of rail freight terminal in Maracaju	1 un	Maracaju, MS	Maracaju, MS
		1833	Construction of waterway cargo terminal in Batayporã	1 un	Batayporã, MS	Batayporã, MS
		1836	Construction of waterway cargo terminal in Paranaíba	1 un	Paranaíba, MS	Paranaíba, MS
		1861	Construction of rail freight terminal in Água Clara	1 un	Água Clara, MS	Água Clara, MS
		2442	Construction of rail freight terminal in Três Lagoas	1 un	Três Lagoas, MS	Três Lagoas, MS
		2443	Construction of rail freight terminal in Corumbá	1 un	Corumbá, MS	Corumbá, MS
	Terminal construction - Urbano	3737	Construction of urban passenger bus terminals in Campo Grande	4 un	Campo Grande, MS	Campo Grande, MS

Table 121 - Minimum Investment - Mato Grosso do Sul

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	7 un	273.463.774,39
	Airport construction	1 un	95.198.532,70
Ferroviária	Railway construction	776,5 km	7.196.741.182,57
	Elimination of bottlenecks	19 un	36.512.063,14
	Restoration of railway	1.045,7 km	5.706.502.151,76
Waterway	Channel opening	3,8 km	229.009.151,54
	Waterway adjustment	5.382,0 km	2.048.779.274,98
		6 un	656.452.275,69
	Cargo riverboat	5 un	3.458.382.062,75
Road	Adjustment of express lane or BRT or RTM	2 un	94.492.770,71
	Road adjustment	1.297,3 km	34.991.592,28
	Road construction	388,7 km	2.129.139.525,02
	Road duplication	707,3 km	8.175.381.407,53
	Paving of road	137,0 km	499.540.348,32
	Restoration of pavement on road	1.142,1 km	3.760.825.437,55
Terminal	Terminal adjustment	2 un	61.693.103,71
	Terminal construction	9 un	363.704.135,78
	Terminal construction - Urban	4 un	233.585.955,78
<b>Total</b>			<b>35.054.394.746,20</b>

## 7.5.2 MATO GROSSO



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: NMR - Rumo Malha Norte Network.

Table 122 - List of projects - Mato Grosso

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State		
Airport	Airport adjustment	1498	Restoration and expansion of passenger terminal and adjustment of road system at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT		
		1569	Implementation of air navigation groups at Piloto Osvaldo Marques Dias Airport in Alta Floresta	1 un	Alta Floresta, MT	Alta Floresta, MT		
		1570	Expansion of Piloto Osvaldo Marques Dias Airport in Alta Floresta	1 un	Alta Floresta, MT	Alta Floresta, MT		
		1573	Implementation of air navigation groups at Barra do Garças Airport	1 un	Barra do Garças, MT	Barra do Garças, MT		
		1574	Expansion of Barra do Garças Airport	1 un	Barra do Garças, MT	Barra do Garças, MT		
		1579	Improvements at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT		
		1582	Expansion of passenger terminal at Juara Sul Airport in Juara	1 un	Juara, MT	Juara, MT		
		1583	Expansion of runway and aircraft yard system at Juara Sul Airport in Juara	1 un	Juara, MT	Juara, MT		
		1590	Expansion of passenger terminal and runway system at Vila Rica Airport	1 un	Vila Rica, MT	Vila Rica, MT		
		2945	Restoration of aircraft yard at Presidente João Batista Figueiredo Airport in Sinop	1 un	Sinop, MT	Sinop, MT		
		2946	Restoration of runway system at Tangará da Serra Airport	1 un	Tangará da Serra, MT	Tangará da Serra, MT		
		2947	Restoration of passenger terminal at Cáceres Airport	1 un	Cáceres, MT	Cáceres, MT		
		3355	Expansion of Rondonópolis Airport	1 un	Rondonópolis, MT	Rondonópolis, MT		
		3386	Runway repair at Marechal Rondon (Cuiabá) Airport in Várzea Grande	1 un	Várzea Grande, MT	Várzea Grande, MT		
		Airport	Airport construction	1572	Construction of airport in Aripuanã	1 un	Aripuanã, MT	Aripuanã, MT
				1576	Construction of Canarana Airport	1 un	Canarana, MT	Canarana, MT

Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport construction	1578	Airport construction em Colíder	1 un	Colíder, MT	Colíder, MT
		1581	Construção do Aeroporto de Jaciara	1 un	Jaciara, MT	Jaciara, MT
		1585	Construction of passenger terminal at Orlando Villas Boas Regional Airport in Matupá	1 un	Matupá, MT	Matupá, MT
		1587	Construction of Paranatinga Airport	1 un	Paranatinga, MT	Paranatinga, MT
		1589	Construction of Poconé Airport	1 un	Poconé, MT	Poconé, MT
Waterway	Implementation of waterway transportation corridor	3330	Implementation of urban passenger waterway corridor from Cuiabá to Várzea Grande	12,0 km	Cuiabá, MT	Várzea Grande, MT
Rail	Railway construction	1380	Construction of rail link from Rondonópolis to Cuiabá	220,0 km	Rondonópolis, MT	Cuiabá, MT
		1383	Construction of railway Central-West Integration Railway from Cocalinho to Comodoro	1.576,1 km	Cocalinho, MT	Comodoro, MT
		1458	Construction of railway Cuiabá-Santarém Railway from Cuiabá to Guarantã do Norte	822,2 km	Cuiabá, MT	Guarantã do Norte, MT
		1463	Construção da ligação Rail Palmeirante - Ribeirão Cascalheira de Vila Rica a Ribeirão Cascalheira	392,0 km	Vila Rica, MT	Ribeirão Cascalheira, MT
	Construction of monorail or LRT or atmospheric railway	1492	Construction of rail link Palmeirante-Ribeirão Cascalheira rail link from Vila Rica to Ribeirão Cascalheira	22,2 km	Várzea Grande, MT	Cuiabá, MT
	Elimination of bottlenecks	1752	Removal of level crossing in Alto Taquari	1 un	Alto Taquari, MT	Alto Taquari, MT
	Restoration of railway	1437	Restoration of Santos-Cuiabá Railway from Alto Taquari to Alto Araguaia	150,7 km	Alto Taquari, MT	Alto Araguaia, MT
Waterway	Waterway adjustment	1319-INT	Adjustment of Cuiabá waterway from Cuiabá to Corumbá	300,0 km	Cuiabá, MT	Corumbá, MS
		1686-INT	Dredging of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS

Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Waterway adjustment	2919-INT	Signaling of Paraguay River waterway from Cáceres to Corumbá	680,0 km	Cáceres, MT	Corumbá, MS
		2903-INT	Adjustment of Juruena River waterway from Juruena to Apuí	443,0 km	Juruena, MT	Apuí, AM
		1320-INT	Adjustment of Teles Pires and Tapajós rivers waterways from Apiacás to Itaituba	680,0 km	Apiacás, MT	Itaituba, PA
		1342-INT	Adjustment of Araguaia River waterway from Barra do Garças to São João do Araguaia	1.655,0 km	Barra do Garças, MT	São João do Araguaia, PA
		2902-INT	Adjustment of Teles Pires waterway from Itaúba to Apiacás	583,0 km	Itaúba, MT	Apiacás, MT
		2874-INT	Dredging and rock removal at Guaporé and Mamoré river waterways from Vila Bela da Santíssima Trindade to Guajará-Mirim	1.412,0 km	Vila Bela da Santíssima Trindade, MT	Guajará-Mirim, RO
	Cargo riverboat	1264	Construction of Colíder sluice on Teles Pires River waterway	1 un	Itaúba, MT	Nova Canaã do Norte, MT
		1266	Construction of Sinop sluice on Teles Pires River waterway	1 un	Itaúba, MT	Cláudia, MT
		1313	Construction of sluice at Cachoeira de Meia Carga on Juruena River waterway	1 un	Cotriguaçu, MT	Nova Bandeirantes, MT
		1263-INT	Construction of sluice Cachoeira Rasteira sluice on Teles Pires River waterway	1 un	Apiacás, MT	Jacareacanga, PA
		1265-INT	Construction of São Manoel sluice on Teles Pires River waterway	1 un	Paranaíta, MT	Jacareacanga, PA
		1267-INT	Construction of Teles Pires sluice on Teles Pires River waterway	1 un	Paran	Jacareacanga, PA
		Road	Road adjustment	2471	Implementation of signs on MT-235 from Campo Novo do Parecis to Sapezal	103,7 km
2550	Implementation of signs on BR-158 from Vila Rica to Canabrava do Norte			196,0 km	Vila Rica, MT	Canabrava do Norte, MT



Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3919	Implementation of additional lane on BR-158 from Bom Jesus do Araguaia to Ribeirão Cascalheira	59,0 km	Bom Jesus do Araguaia, MT	Ribeirão Cascalheira, MT
		3923	Implementation of signs on MT-208 from Carlinda to Alta Floresta	47,1 km	Carlinda, MT	Alta Floresta, MT
	Road construction	0175	Construction of BR-242 from Ribeirão Cascalheira to Nova Ubiratã	439,0 km	Ribeirão Cascalheira, MT	Nova Ubiratã, MT
		0939	Construction of BR-080 from Cocalinho to Ribeirão Cascalheira	170,0 km	Cocalinho, MT	Ribeirão Cascalheira, MT
		2261	Construction of BR-251 from Cocalinho to Nova Xavantina	140,0 km	Cocalinho, MT	Nova Xavantina, MT
		3895	Construction of Cuiabá Bypass on BR-163	30,0 km	Cuiabá, MT	Várzea Grande, MT
		3897	Construction of Barra do Garças Bypass on BR-070	13,2 km	Barra do Garças, MT	Pontal do Araguaia, MT
		0611	Duplication of BR-070 from Barra do Garças to Santo Antônio do Leverger	422,4 km	Barra do Garças, MT	Santo Antônio do Leverger, MT
	Road duplication	0715	Duplication of BR-163 from Rondonópolis to Diamantino	365,8 km	Rondonópolis, MT	Diamantino, MT
		2272	Duplication of BR-364 from Alto Araguaia to Rondonópolis	200,0 km	Alto Araguaia, MT	Rondonópolis, MT
		2549	Duplication of MT-060 / BR-070 from Várzea Grande to Nossa Senhora do Livramento	11,3 km	Várzea Grande, MT	Nossa Senhora do Livramento, MT
		2552	Duplication of BR-364 from Diamantino to Comodoro	660,2 km	Diamantino, MT	Comodoro, MT
		2642	Duplication of BR-174 from Cáceres to Comodoro	519,9 km	Cáceres, MT	Comodoro, MT
	Implementation of express lane or BRT or RTM	1494	Implementation of BRT on Avenida Dante Oliveira in Cuiabá	13,1 km	Cuiabá, MT	Cuiabá, MT
		3811	Implementation of BRS in Cuiabá	23,4 km	Cuiabá, MT	Cuiabá, MT

Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Paving of road	0176	Paving of BR-242 from São Felix do Araguaia to Alto Boa Vista	89,0 km	São Félix do Araguaia, MT	Alto Boa Vista, MT
		0659	Paving of MT-206 from Paranaíta to Colniza	662,5 km	Paranaíta, MT	Colniza, MT
		0660	Paving of MT-343 from Cáceres to Porto Estrela	94,9 km	Cáceres, MT	Porto Estrela, MT
		0662	Paving of MT-247 from Lambari d'Oeste to Barra do Bugres	92,4 km	Lambari d'Oeste, MT	Barra do Bugres, MT
		0663	Paving of BR-158 from Canabrava do Norte to Bom Jesus do Araguaia	122,9 km	Canabrava do Norte, MT	Bom Jesus do Araguaia, MT
		0673	Paving of BR-174 from Juína to Colniza	587,7 km	Juína, MT	Colniza, MT
		2266	Paving of MT-100 from Araguaiana to Cocalinho	257,7 km	Araguaiana, MT	Cocalinho, MT
		2267	Paving of MT-326 in Cocalinho	61,6 km	Cocalinho, MT	Cocalinho, MT
		2268	Paving of MT-322 from Bom Jesus do Araguaia to Peixoto de Azevedo	396,0 km	Bom Jesus do Araguaia, MT	Peixoto de Azevedo, MT
	2269	Paving of MT-388, MT-246 and MT-247 from Campos de Júlio to Jauru	190,3 km	Campos de Júlio, MT	Jauru, MT	
	Restoration of pavement on road	2551	Restoration of pavement on BR-163 from Sinop to Guarantã do Norte	269,8 km	Sinop, MT	Guarantã do Norte, MT
		2641	Restoration of pavement on BR-158 from Ribeirão Cascalheira to Barra do Garças	391,8 km	Ribeirão Cascalheira, MT	Barra do Garças, MT
		3924	Restoration of pavement on MT-240 and MT-343 from Diamantino to Barra do Bugres	118,7 km	Diamantino, MT	Barra do Bugres, MT
	Restoration of pavement on road	3926	Restoration of pavement on MT- 246, MT-343 and MT-358 from Jangada to Campo Novo do Parecis	229,2 km	Jangada, MT	Campo Novo do Parecis, MT
		3927	Restoration of pavement on MT-320 from Nova Santa Helena to Carlinda	153,8 km	Nova Santa Helena, MT	Carlinda, MT
		3928	Restoration of pavement on MT- 483 in Rondonópolis	10,0 km	Rondonópolis, MT	Rondonópolis, MT

Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	0410	Construction of waterway cargo terminal in Barra do Garças	1 un	Barra do Garças, MT	Barra do Garças, MT
		0411	Construction of waterway cargo terminal in Nova Xavantina	1 un	Nova Xavantina, MT	Nova Xavantina, MT
		0413	Construction of waterway cargo terminal in Cuiabá	1 un	Cuiabá, MT	Cuiabá, MT
		1766	Construction of rail freight terminal in Lucas do Rio Verde	1 un	Lucas do Rio Verde, MT	Lucas do Rio Verde, MT
		1767	Construction of waterway cargo terminal in Juara	1 un	Juara, MT	Juara, MT
		1768	Construction of waterway cargo terminal in Juruena	1 un	Juruena, MT	Juruena, MT
		1777	Construction of logistics platform in Cuiabá	1 un	Cuiabá, MT	Cuiabá, MT
		1780	Construction of waterway cargo terminal in Cáceres	1 un	Cáceres, MT	Cáceres, MT
		1781	Construction of rail freight terminal in Sinop	1 un	Sinop, MT	Sinop, MT
		1795	Construction of waterway cargo terminal in Cachoeira Rasteira in Apiacás	1 un	Apiacás, MT	Apiacás, MT
		1796	Construction of waterway cargo terminal in Porto dos Gaúchos	1 un	Porto dos Gaúchos, MT	Porto dos Gaúchos, MT
		1797	Construction of waterway cargo terminal in Nova Nazaré	1 un	Nova Nazaré, MT	Nova Nazaré, MT
		1798	Construction of rail freight terminal in Ribeirão Cascalheira	1 un	Ribeirão Cascalheira, MT	Ribeirão Cascalheira, MT
		1829	Construction of waterway cargo terminal in Ipiranga do Norte	1 un	Ipiranga do Norte, MT	Ipiranga do Norte, MT
		1830	Construction of waterway cargo terminal in Paranaíta	1 un	Paranaíta, MT	Paranaíta, MT
		1832	Construction of waterway cargo terminal in Rosário Oeste	1 un	Rosário Oeste, MT	Rosário Oeste, MT
1845	Construction of waterway cargo terminal in Itaúba	1 un	Itaúba, MT	Itaúba, MT		

Table 122 - List of projects - Mato Grosso

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal construction	1879	Construction of waterway cargo terminal in Colíder	1 un	Colíder, MT	Colíder, MT
		2842	Construction of parking lot for cargo vehicles in Cuiabá River Valley Metropolitan Region	1 un	Cuiabá, MT	Cuiabá, MT

Table 123 - Minimum Investment - Mato Grosso

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	14 un	334.014.938,33
	Airport construction	7 un	187.751.085,19
Waterway	Implementation of waterway transportation corridor	12,0 km	34.621.108,48
Rail	Railway construction	3.010,3 km	28.762.991.717,22
	Construção de monotrilho ou VLT ou aeromóvel	22,2 km	1.229.616.604,73
	Elimination of bottlenecks	1 un	4.471.948,07
	Restoration of railway	150,7 km	822.604.722,22
Waterway	Waterway adjustment	6.433,0 km	27.506.062.550,27
	Cargo riverboat	6 un	7.674.970.646,37
Road	Road adjustment	405,8 km	214.709.862,31
	Road construction	792,2 km	2.474.747.020,45
	Road duplication	2.179,6 km	21.712.798.590,38
Road	Implementation of express lane or BRT or RTM	36,5 km	236.193.706,37
	Paving of road	2.555,0 km	14.057.798.952,95
	Restoration of pavement on road	1.173,3 km	3.863.564.036,32
Terminal	Terminal construction	19 un	1.575.291.123,67
<b>Total</b>			<b>110.692.208.613,33</b>

7.5.3 GOIÁS



Capital	Area (Km <sup>2</sup> )	2017 Population	Pop; density (inhab./km <sup>2</sup> )	MHDi
Goiânia	340.106,5	6.778.772	19,9	0,735

2015 State GDP (R\$ billions)	PARTICIPATION Agricultural GDP	PARTICIPATION Industry GDP	PARTICIPATION Services GDP	PARTICIPATION State/National GDP
173,6	10,4%	24,5%	65,1%	2,9%

	Paved Extension	Federal Paved Extension	PARTICIPATION Paved National Network
	12.786 km	3.416 km	6,0%
	Unpaved Extension	Planned Extension	Fleet
	73.867 km	9.988 km	3.773.112

	Stations	Mov. Stations (t)	Networks
	8	1.893.830	FCA, FNSTC

	Public Ports	Mov. Public Ports (t)	Private Use Terminals	Mov. Private Use Terminals (t)
	-	-	-	-

	River Terminals	Sluices	Mov. River Terminals
	3	-	952.134

	Airports	Mov. Passengers	Mov. Cargo (t)
	3	3.129.881	8.291

Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway, FNSTC - North-South Railway - Central Line.

Table 124 - List of projects - Goiás

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Airport	Airport adjustment	1563	Expansion of Santa Geneveva Airport in Goiânia	1 un	Goiânia, GO	Goiânia, GO
		3025	Restoration of passenger terminal and expansion of airport runway system at Nelson Rodrigues Guimarães Airport in Caldas Novas	1 un	Caldas Novas, GO	Caldas Novas, GO
	Airport construction	3024	Construction of new Jataí Airport	1 un	Jataí, GO	Jataí, GO
Rail	Railway construction	1357	Construction of North-South Railway from Ouro Verde de Goiás to São Simão	509,4 km	Ouro Verde de Goiás, GO	São Simão, GO
		1382	Construction of Central-West Integration Railway from Campinorte to Aruanã	265,9 km	Campinorte, GO	Aruanã, GO
		1443	Construction and remodeling of Goiânia-Rio de Janeiro railway from Goiânia to Santo Antônio do Descoberto	130,4 km	Goiânia, GO	Santo Antônio do Descoberto, GO
		1445	Construction and remodeling of Goiânia-Rio de Janeiro railway in Cristalina	30,2 km	Cristalina, GO	Cristalina, GO
		1450	Construction of Uruaçu-Campos railway from Uruaçu to Planaltina	267,2 km	Uruaçu, GO	Planaltina, GO
		1452	Construction of Uruaçu-Campos railway in Cristalina	32,1 km	Cristalina, GO	Cristalina, GO
		1479	Construction of Uberlândia-Alto Araguaia rail link from Cachoeira Dourada to Santa Rita do Araguaia	521,7 km	Cachoeira Dourada, GO	Santa Rita do Araguaia, GO
		1718	Construction of Pires do Rio Rail Bypass	15,5 km	Pires do Rio, GO	Pires do Rio, GO
	Construction of monorail or LRT or atmospheric railway	1234	Construction of LRT line in Goiânia	13,6 km	Goiânia, GO	Goiânia, GO
	Elimination of bottlenecks	1691	Removal of right of way intrusion in Pires do Rio	6 un	Pires do Rio, GO	Pires do Rio, GO
3219		Removal of level crossing in Leopoldo de Bulhões	1 un	Leopoldo de Bulhões, GO	Leopoldo de Bulhões, GO	

Table 124 - List of projects - Goiás

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State	
Rail	Elimination of bottlenecks	3221	Removal of level crossings in Silvânia	2 un	Silvânia, GO	Silvânia, GO	
		3222	Removal of level crossings in Vianópolis	2 un	Vianópolis, GO	Vianópolis, GO	
		3223	Removal of level crossing in Cumari	1 un	Cumari, GO	Cumari, GO	
	Railway restoration - Urban	3798	Restoration of passenger train railway from Valparaíso de Goiás to Luziânia	35,7 km	Valparaíso de Goiás, GO	Luziânia, GO	
Waterway	Waterway adjustment	3047	Dredging Rio dos Bois waterway from Porteirão to Gouvelândia	175,0 km	Porteirão, GO	Gouvelândia, GO	
		1342-INT	Adjustment of Araguaia River waterway from Barra do Garças to São João do Araguaia	1.655,0 km	Barra do Garças, MT	São João do Araguaia, PA	
		2984-INT	Expansion of span and protection of pillars of BR-365 bridge on Parnaíba River waterway	1 un	São Simão, GO	Santa Vitória, MG	
		3045-INT	Expansion of span and protection of pillars of BR-452 bridge on Parnaíba River waterway	1 un	Itumbiara, GO	Araporã, MG	
		3046-INT	Expansion of span and protection of pillars of GO-139 bridge on Parnaíba River waterway	1 un	Corumbaíba, GO	Araguari, MG	
		1339-INT	Adjustment of Parnaíba River waterway from Itumbiara to Aparecida do Taboado	504,0 km	Itumbiara, GO	Aparecida do Taboado, MS	
		1335-INT	Signaling and beacon installation of waterways on Parnaíba and Paraná rivers from São Simão to Foz do Iguaçu	959,0 km	São Simão, GO	Foz do Iguaçu, PR	
	Cargo riverboat		1292	Construction of Cana Brava sluice on Tocantins River waterway	1 un	Cavalcante, GO	Minaçu, GO
			1293	Construction of Serra da Mesa sluice on Tocantins River waterway	1 un	Colinas do Sul, GO	Minaçu, GO
			1281-INT	Construction of sluice Cachoeira Dourada sluice on Parnaíba River waterway	1 un	Cachoeira Dourada, GO	Cachoeira Dourada, MG

Table 124 - List of projects - Goiás

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Waterway	Cargo riverboat	1282-INT	Construction of Emborcação sluice on Paranaíba River waterway	1 un	Catalão, GO	Araguari, MG
		1283-INT	Construction of Itumbiara sluice on Paranaíba River waterway	1 un	Itumbiara, GO	Araporã, MG
		1284-INT	Construction of São Simão sluice on Paranaíba River waterway	1 un	São Simão, GO	Santa Vitória, MG
Road	Road adjustment	2323	Implementation of additional lane on GO-020/BR-352 and GO-330/BR-352 from Goiânia to Catalão	169,5 km	Goiânia, GO	Catalão, GO
		2501	Implementation of signs on GO-118 from Teresina de Goiás to Campos Belos	124,1 km	Teresina de Goiás, GO	Campos Belos, GO
		2537	Implementation of additional lane on GO-213/BR-490 from Ipameri to Morrinhos	80,1 km	Ipameri, GO	Morrinhos, GO
		2614	Implementation of signs on BR-060 from Rio Verde to Jataí	106,7 km	Rio Verde, GO	Jataí, GO
		3832	Implementation of signs on BR-060 from Goiânia to Aparecida de Goiânia	16,8 km	Goiânia, GO	Aparecida de Goiânia, GO
		3848	Implementation of additional lane on BR-080 from Padre Bernardo to Barro Alto	86,0 km	Padre Bernardo, GO	Barro Alto, GO
		3849	Implementation of signs on BR-080 from Barro Alto to Uruaçu	55,5 km	Barro Alto, GO	Uruaçu, GO
		3852	Implementation of signs on GO-080 from Jaraguá to Barro Alto	98,9 km	Jaraguá, GO	Barro Alto, GO
		3853	Implementation of signs on GO-080 from Goiânia to São Francisco de Goiás	91,3 km	Goiânia, GO	São Francisco de Goiás, GO
		3855	Implementation of additional lane on GO-210/BR-352 from Catalão to Davinópolis	30,0 km	Catalão, GO	Davinópolis, GO
3858	Implementation of additional lane on BR-414 from Niquelândia to Vila Propício	97,0 km	Niquelândia, GO	Vila Propício, GO		



Table 124 - List of projects - Goiás

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road adjustment	3859	Implementation of signs on BR-414 from Vila Propício to Cocalzinho de Goiás	43,7 km	Vila Propício, GO	Cocalzinho de Goiás, GO
		3861	Implementation of additional lane on BR-414 from Cocalzinho de Goiás to Anápolis	84,0 km	Cocalzinho de Goiás, GO	Anápolis, GO
		3866	Implementation of signs on GO-060 from São Luís de Montes Belos to Piranhas	185,7 km	São Luís de Montes Belos, GO	Piranhas, GO
		3869	Implementation of signs on GO-174 from Rio Verde to Iporá	163,5 km	Rio Verde, GO	Iporá, GO
		3872	Implementation of signs on GO-225 from Corumbá de Goiás to Pirenópolis	19,3 km	Corumbá de Goiás, GO	Pirenópolis, GO
		3873	Implementation of signs on GO-237 from Niquelândia to Uruaçu	85,7 km	Niquelândia, GO	Uruaçu, GO
		3836-INT	Construction of 2nd bridge on BR-153 from Itumbiara to Araporã	0,3 km	Itumbiara, GO	Araporã, MG
	Adequação de via urbana	1236	Adjustment of North-South and East-West Corridors in Aparecida de Goiânia	35,6 km	Aparecida de Goiânia, GO	Aparecida de Goiânia, GO
	Road construction	0954	Construction of BR-354 from Cristalina to Catalão	133,1 km	Cristalina, GO	Catalão, GO
		2255	Construction of BR-457 from Ipameri to Vianópolis	119,9 km	Ipameri, GO	Vianópolis, GO
		2257	Construction of BR-070 from Cocalzinho de Goiás to São Francisco de Goiás	61,7 km	Cocalzinho de Goiás, GO	São Francisco de Goiás, GO
		2258	Construction of BR-251 from Padre Bernardo the Vila Propício	90,9 km	Padre Bernardo, GO	Vila Propício, GO
		2259	Construction of Ring Road in Goiânia	63,9 km	Aparecida de Goiânia, GO	Goiânia, GO
		2274	Construction of 3rd Ring Road in Goiânia Metropolitan Region	107,0 km	Aragoiânia, GO	Silvânia, GO

Table 124 - List of projects - Goiás

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Road construction	3813	Construction of Jataí Bypass on BR-060	23,6 km	Jataí, GO	Jataí, GO
		3842	Construction of Aragarças Bypass on BR-070	6,3 km	Aragarças, GO	Aragarças, GO
	0583	Duplication of BR-070 and GOT-070 / BR-070 from Jaraguá to Aragarças	340,5 km	São Francisco de Goiás, GO	Aragarças, GO	
	0635	Duplication of BR-070 from Águas Lindas de Goiás to Cocalzinho de Goiás	54,1 km	Águas Lindas de Goiás, GO	Cocalzinho de Goiás, GO	
	0654	Duplication of BR-020 from Formosa to Guarani de Goiás	246,4 km	Formosa, GO	Guarani de Goiás, GO	
	2270	Duplication of BR-153 from Porangatu to Anápolis	424,0 km	Porangatu, GO	Anápolis, GO	
	2271	Duplication of BR-060 and BR-364 from Jataí to Santa Rita do Araguaia	182,9 km	Jataí, GO	Santa Rita do Araguaia, GO	
	2613	Duplication of GO-118 / BR-010 from Planaltina to Teresina de Goiás	228,6 km	Planaltina, GO	Teresina de Goiás, GO	
	2615	Duplication of BR-158 and GO-184 / BR-158 from Aragarças to Aporé	406,2 km	Aragarças, GO	Aporé, GO	
	2617	Duplication of GO-341 / BR-359 in Mineiros	112,8 km	Mineiros, GO	Mineiros, GO	
	3823	Duplication of BR-364 from São Simão to Cachoeira Alta	89,0 km	São Simão, GO	Cachoeira Alta, GO	
	3850	Duplication of BR-154 and GO-206 / BR-154 from Itumbiara to Cachoeira Dourada	39,1 km	Itumbiara, GO	Cachoeira Dourada, GO	
	3851	Duplication of BR-251 in Cristalina	34,0 km	Cristalina, GO	Cristalina, GO	
	3862	Duplication of BR-452 from Rio Verde to Itumbiara	175,2 km	Rio Verde, GO	Itumbiara, GO	
	3864	Duplication of GO-206/ BR-483 and GO-164/ BR-483 from Cachoeira Dourada to Paranaiguara	161,2 km	Cachoeira Dourada, GO	Paranaiguara, GO	

Table 124 - List of projects - Goiás

continuation

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Road	Implementation of express lane or BRT or RTM	1235	Implementation of North-South BRT in Goiânia	22,0 km	Goiânia, GO	Goiânia, GO
		3695	Implementation of North-South BRT in Aparecida de Goiânia	5,0 km	Aparecida de Goiânia, GO	Aparecida de Goiânia, GO
		3701	Implementation of bus lanes in Anápolis	47,0 km	Anápolis, GO	Anápolis, GO
		3711	Implementation of Preferential Lane T-7 in Goiânia	10,4 km	Goiânia, GO	Goiânia, GO
		3718	Implementation of Preferential Lane T-9 in Goiânia	10,6 km	Goiânia, GO	Goiânia, GO
		3720	Implementation of Preferential Lane T-63 in Goiânia	5,7 km	Goiânia, GO	Goiânia, GO
		3721	Implementation of Preferential Lane 85 in Goiânia	7,2 km	Goiânia, GO	Goiânia, GO
		3724	Implementation of Preferential Lane 24 in Goiânia	3,4 km	Goiânia, GO	Goiânia, GO
		3725	Implementation of Independência Corridor in Goiânia	6,7 km	Goiânia, GO	Goiânia, GO
	Paving of road	0821	Paving of GO-468 / BR-030 in Formosa	19,3 km	Formosa, GO	Formosa, GO
		0938	Paving of BR-080 from Uruaçu to São Miguel do Araguaia	218,4 km	Uruaçu, GO	São Miguel do Araguaia, GO
		2260	Paving of GO-164/BR-483 from Caçu to Itajá	64,8 km	Caçu, GO	Itajá, GO
	Restoration of pavement on road	3867	Restoration of pavement on GO-164 from Goiás to São Luís de Montes Belos	79,7 km	Goiás, GO	São Luís de Montes Belos, GO
		3868	Restoration of pavement on GO-174 in Rio Verde	11,0 km	Rio Verde, GO	Rio Verde, GO
		3870	Restoration of pavement on GO-178 and GO-206 from Itajá to Cachoeira Alta	85,5 km	Itajá, GO	Cachoeira Alta, GO
		3875	Restoration of pavement on GO-302 from Aporé to Itajá	48,8 km	Aporé, GO	Itajá, GO

Table 124 - List of projects - Goiás

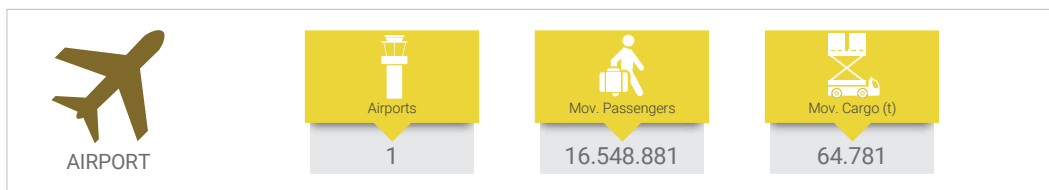
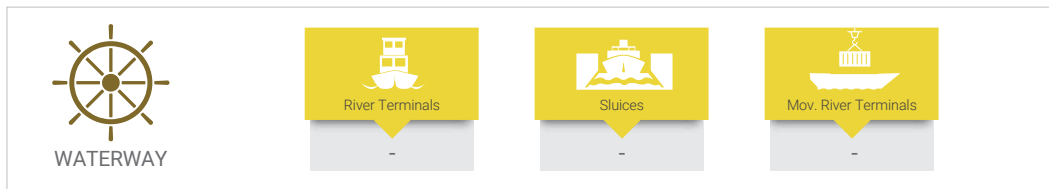
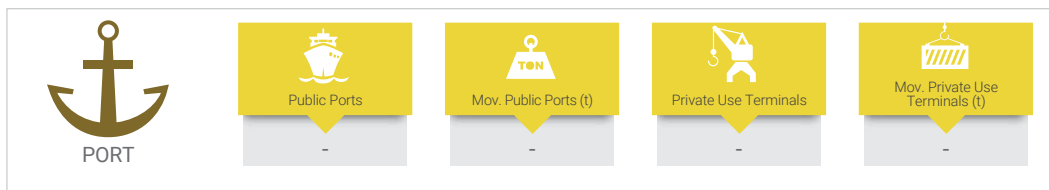
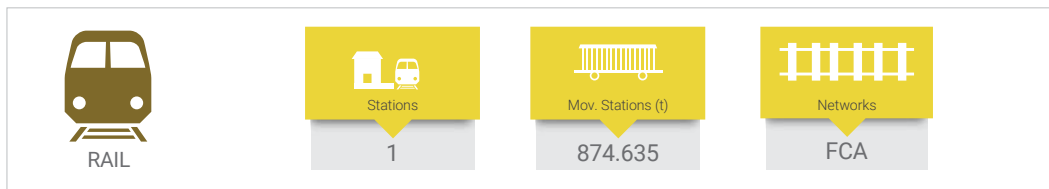
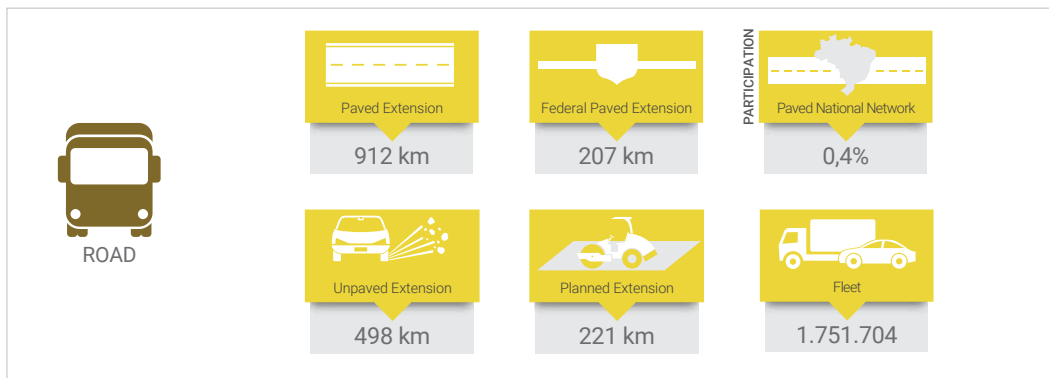
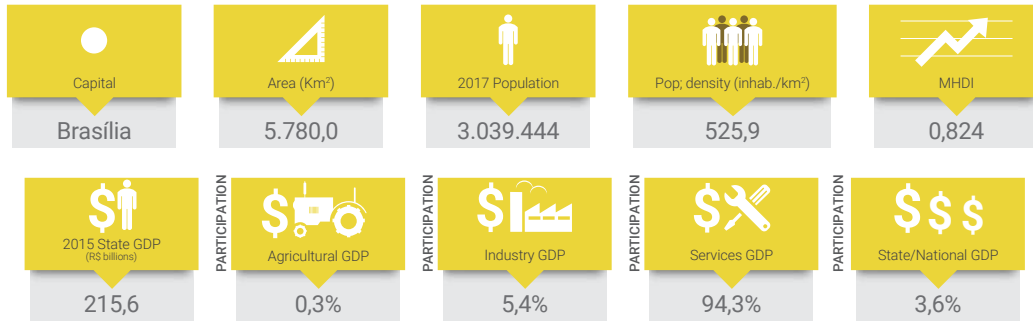
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/ State	Final Municipality/ State
Terminal	Terminal adjustment	0365	Adjustment of Aruanã mixed-use waterway terminal	1 un	Aruanã, GO	Aruanã, GO
	Terminal construction	0366	Construction of waterway cargo terminal in Itumbiara	1 un	Itumbiara, GO	Itumbiara, GO
		0368	Construction of cargo terminal in Jataí	1 un	Jataí, GO	Jataí, GO
		0369	Construction of cargo terminal in Morrinhos	1 un	Morrinhos, GO	Morrinhos, GO
		0370	Construction of cargo terminal in Rialma	1 un	Rialma, GO	Rialma, GO
		1773	Construction of rail freight terminal in Campinorte	1 un	Campinorte, GO	Campinorte, GO
		1775	Construction of logistics platform in Anápolis	1 un	Anápolis, GO	Anápolis, GO
		1776	Construction of intermodal cargo terminal in São Simão	1 un	São Simão, GO	São Simão, GO
		1842	Construction of waterway cargo terminal in Cumari	1 un	Cumari, GO	Cumari, GO
	2847	Construction of parking lot for cargo vehicles in Goiânia Metropolitan Region	1 un	Goiânia, GO	Goiânia, GO	

Table 125 - Minimum Investment - Goiás

Infrastructure	Category	Scale	Minimum Investment (R\$)
Airport	Airport adjustment	2 un	343.246.045,17
	Airport construction	1 un	59.921.149,30
Rail	Railway construction	1.772,4 km	23.727.805.167,28
	Construction of monorail or LRT or atmospheric railway	13,6 km	2.282.193.811,96
	Elimination of bottlenecks	12 un	32.007.492,99
	Railway restoration - Urban	35,7 km	2.004.001.286,79
Waterway	Waterway adjustment	3.293,0 km	22.625.552.317,76
		3 un	286.261.439,43
	Cargo riverboat	6 un	19.703.809.095,77
Road	Road adjustment	1.538,1 km	1.983.962.496,61
	Urban road adjustment	35,6 km	54.479.621,34
	Road construction	606,4 km	3.545.433.674,04
	Road duplication	2.494,0 km	28.827.090.669,27
	Implementation of express lane or BRT or RTM	118,0 km	736.949.119,92
	Paving of road	302,5 km	826.519.642,00
	Restoration of pavement on road	225,0 km	740.903.356,49
Terminal	Terminal adjustment	1 un	607.482,14
	Terminal construction	9 un	1.364.272.648,49
<b>Total</b>			<b>109.145.016.516,75</b>

### 7.5.4 DISTRITO FEDERAL



Note 1: Movement data consider loading and unloading (for cargo) and boarding and disembarking (for passengers) in 2017. The Data on the number of rail stations, private terminals and airports include only those with cargo movements in 2017. The number of river terminals corresponds to the sum of organized public ports classified as river ports (regardless of whether they had movement in 2017) and private use terminals that reported only inland waterway navigation in 2017.

Note 2: FCA - Centro-Atlântica Railway.

Table 126 - List of projects - Federal District

Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State	
Rail	Railway construction	1444	Construction and remodeling of Goiânia-Rio de Janeiro railway in Brasília	100,4 km	Brasília, DF	Brasília, DF	
		1451	Construction of Uruaçu-Campos railway in Brasília	70,9 km	Brasília, DF	Brasília, DF	
	Construction of metro or urban train	3809	Expansion of metro lines in Brasília	6,8 km	Brasília, DF	Brasília, DF	
		3972	Construction of Asa Norte-Planaltina metro section in Brasília	37,9 km	Brasília, DF	Brasília, DF	
	Construction of monorail or LRT or atmospheric railway	0836	Construction of Line 1 of LRT in Brasília	6,4 km	Brasília, DF	Brasília, DF	
		3967	Construction of Line 2 of LRT in Brasília	22,0 km	Brasília, DF	Brasília, DF	
		3969	Construction of Line 3 of LRT in Brasília	15,0 km	Brasília, DF	Brasília, DF	
	Railway restoration - Urban	1224	Restoration of passenger train railway in Brasília	40,3 km	Brasília, DF	Brasília, DF	
	Road	Road adjustment	2533	Implementation of signs on BR-010 and DF-345 / BR-010 in Brasília	44,4 km	Brasília, DF	Brasília, DF
			2534	Implementation of signs on BR-020 in Brasília	24,7 km	Brasília, DF	Brasília, DF
3799			Implementation of signs on BR-080 in Brasília	40,5 km	Brasília, DF	Brasília, DF	
3801			Implementation of signs on DF-001 / BR-251 in Brasília	51,7 km	Brasília, DF	Brasília, DF	
3802			Implementation of signs on DF-003 / BR-450 in Brasília	37,1 km	Brasília, DF	Brasília, DF	
3803			Implementation of signs on DF-130 in Brasília	42,8 km	Brasília, DF	Brasília, DF	
3806			Implementation of additional lane on DF-250/BR-479 in Brasília	14,2 km	Brasília, DF	Brasília, DF	
Road duplication			3800	Duplication of BR-251 in Brasília	45,6 km	Brasília, DF	Brasília, DF

Table 126 - List of projects - Federal District

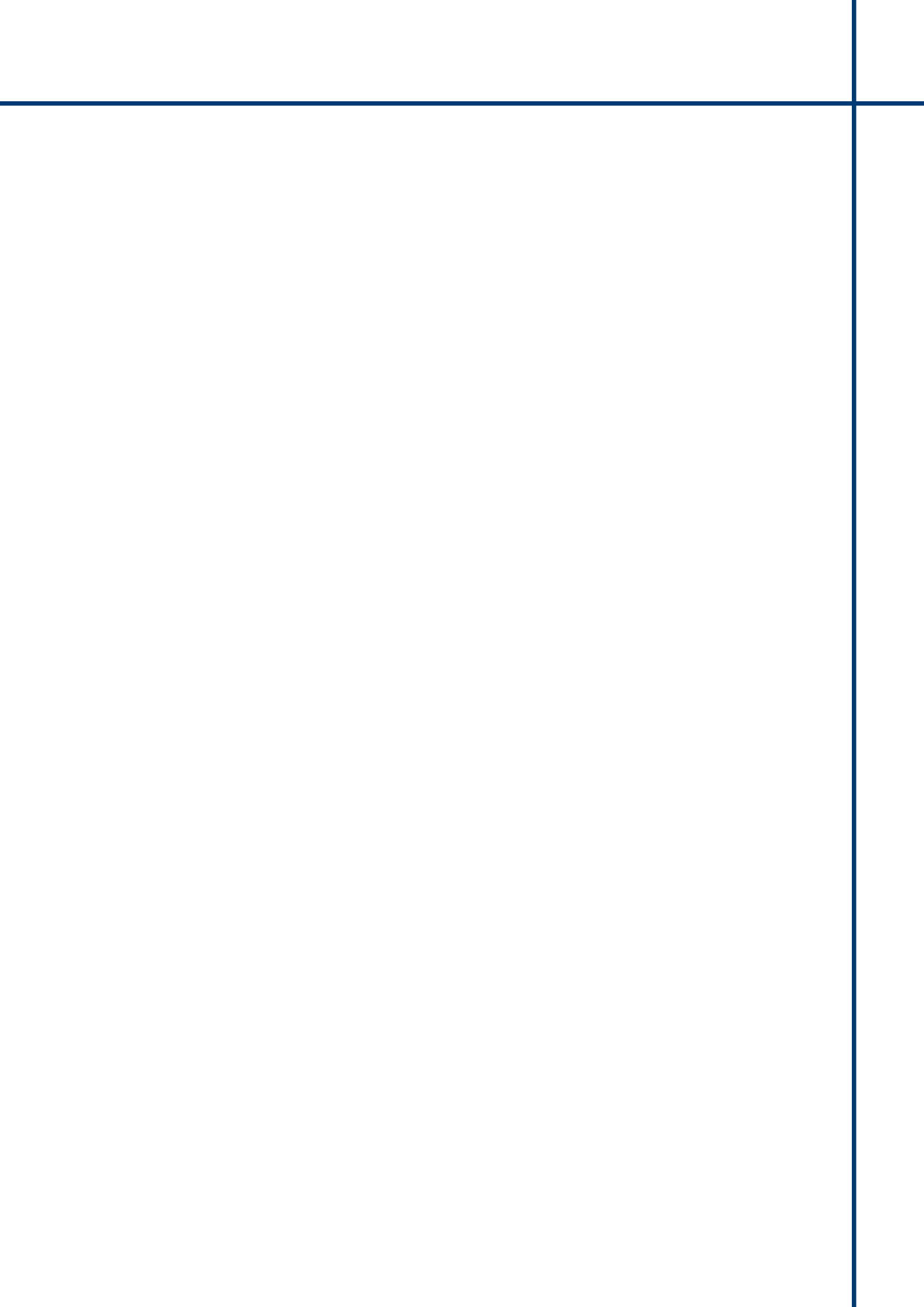
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Infrastructure	Category	Project No.	Title	Scale	Initial Municipality/State	Final Municipality/State
Road	Implementation of express lane or BRT or RTM	1225	Implementation of South Highway Corridor BRT in Brasília	35,0 km	Brasília, DF	Brasília, DF
		1226	Implementation of West Highway Corridor BRT in Brasília	38,7 km	Brasília, DF	Brasília, DF
	Restoration of pavement on road	3804	Restoration of pavement on DF-250 / BR-479 in Brasília	30,8 km	Brasília, DF	Brasília, DF
		3805	Restoration of pavement on DF-095 in Brasília	12,5 km	Brasília, DF	Brasília, DF
Terminal	Terminal construction	3409	Construction of parking lot for cargo vehicles in the Integrated Development Region of the Federal District and Surrounding Areas	1 un	Brasília, DF	Brasília, DF

Table 127 - Minimum Investment - Federal District

Infrastructure	Category	Scale	Minimum Investment (R\$)
Rail	Railway construction	171,3 km	2.222.121.379,87
	Construction of metro or urban train	44,7 km	18.768.972.569,94
	Construction of monorail or LRT or atmospheric railway	43,4 km	2.786.843.798,73
	Railway restoration - Urban	40,3 km	2.262.219.939,99
Road	Road adjustment	255,4 km	55.930.403,54
	Road duplication	45,6 km	527.071.104,46
	Implementation of express lane or BRT or RTM	73,7 km	1.228.902.785,86
	Restoration of pavement on road	43,3 km	142.582.734,82
Terminal	Terminal construction	1 un	25.000.000,00
<b>Total</b>			<b>28.019.644.717,21</b>









# CLOSING REMARKS

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Transportation infrastructure is one of the pillars of a country's competitiveness in a global economy. An efficient and integrated transportation system enables people and goods to move faster, more predictably and at lower costs. In terms of competitiveness of this infrastructure, however, Brazil is at a relative disadvantage compared to other countries, even when compared to other BRICS countries<sup>72</sup>.

Despite Brazil's average competitiveness rating<sup>73</sup>, there is a significant prospect for economic growth of the country, which would thereby imply the growth of transportation activity. However, as demonstrated in this report, much of the national transportation infrastructure is obsolete, inadequate or has yet to be built – a scenario that can be observed in all modes of transport and administrative areas. This landscape of saturation and lack of proper maintenance of existing transportation infrastructures represents a barrier to the country's economic growth. As such, investment in these infrastructures is fundamental in order to maximize prospects for economic growth.

Historically, transportation infrastructure investments in Brazil have been very low, representing less than 0.5% of the Gross Domestic Product (GDP)<sup>74</sup> between 2001 and 2017. Moreover, it can be seen that public investments in this sector, despite having increased in 2007, contracted again in 2012. For this reason, it is essential that the government seek efficient ways to use already scarce public resources to maximize benefits for the transportation sector and, therefore, for society as a whole. In addition, the government should promote actions aimed at resuming and boosting private sector participation in providing this infrastructure.

In light of this, based on the current and future transportation needs in the country and considering the particularities of physical, economic and social integration of each region, 2,663 projects were considered essential for the development of Brazil's transportation infrastructure, including airport, waterway<sup>75</sup>, rail, road and terminal infrastructure. This set of projects represents a minimum investment of \$1.66 trillion BRL and outlines what would be the ideal transportation system for the country.

Within the scope of the National Integration Projects, which aim to interconnect the regions of Brazil and neighboring countries through the integration of the main production and consumption zones, 2,343 projects were listed. In decreasing order of the number of proposed projects, the report covered road, rail, terminal, port, airport and waterway infrastructure. In addition, the total investment for these projects amounts to nearly \$1.37 trillion BRL. In this

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72 Group of countries with common economic characteristics composed of Brazil, Russia, India, China and South Africa.

73 According to the World Economic Forum's Global Competitiveness Report 2017-2018, Brazil is ranked 65th in Transportation Infrastructure out of 137 countries evaluated. China ranks 21st, India 25th, South Africa 35th and Russia 37th.

74 CNT, March 2018.

75 Within the scope of the National Integration Projects, waterway infrastructures were separated into waterways, which specifically includes projects related to inland waterway navigation, and port, which includes all infrastructure employed in long distance and cabotage navigation. On the other hand, for Urban Projects the waterway infrastructure was considered as a whole, and could include both inland waterway and maritime projects.

context, of particular note is railway infrastructure, which despite not being the infrastructure with the largest number of projects, demands the largest investment for implementation.

In the context of **Urban Projects**, which are those including interventions aimed at improving transportation in urban contexts, a total of 320 interventions were proposed, covering all of the country's the states. These projects total \$297.01 billion BRL in investments and include road, rail, terminal and waterway infrastructures.

With the consolidation of this edition of the CNT Transportation and Logistics Plan, the institution would like to reiterate its role of contributing to the development of an efficient and integrated transportation system, and thereby to the country's progress. This document, assembled as a set of recommendations for transportation infrastructure, is a reference for transportation operators, public and private managers and other entities dedicated to transportation planning in Brazil.







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# APPENDICES

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## APPENDIX A – METHODS AND PROCEDURES FOR VALUATION OF PROJECTS OF THE 2018 CNT TRANSPORTATION AND LOGISTICS PLAN

Although the transportation infrastructure deficit in the country is perceived by most of the population and the number of projects is high, a true awareness of the effort required to solve the transportation barriers in Brazil is only possible through measurement of the cost of implementing the necessary interventions.

In this sense, in addition to identifying the projects and their characteristics, CNT also calculated the minimum investment required to carry out the interventions that are part of the CNT Transportation and Logistics Plan 2018. For this valuation, three project groups were defined, namely:

- Projects identified by CNT that already had studies that measured their implementation costs (Group A);
- Projects identified by CNT that did not have studies that measured their implementation costs, but that had similar projects in the CNT project portfolio which can be used as a parameter to estimate the costs of those without specific value (Group B); and
- Projects identified by CNT that did not have studies that measured their implementation costs and also did not have similar projects in the CNT project portfolio which could be used as a cost parameter (Group C).

For Group A, only the general calculation rules that will be presented later were applied. For Group B, the following procedures were performed<sup>1</sup>:

1. Grouping of all Plan projects into subcategories<sup>2</sup> combined for better composition of *cluster* interventions (combinations were made of the subcategories defined for this Plan, such as: waterway dredging and/or rock removal; waterway signaling and/or beacon installation);
2. Definition of the unit value of interventions (division of the estimated total value by the expected size of the infrastructure);
3. Temporary deletion of all projects without identified values from the database for the calculation of the average cost by subcategory combination;

<sup>1</sup> All steps presented here were performed after the monetary correction of all values.

<sup>2</sup> Subcategories are segmentation of the categories presented in this CNT Transportation and Logistics Plan (defined in Chapter 4) in order to improve the grouping of projects with the same type of intervention to measure the estimated value..

4. Dispersion analysis of the cost data of subcategory combinations using position measurements for the identification of outliers;
5. Calculation of the average unit cost by combination of subcategories without the presence of outliers;
6. The average unit cost per subcategory combination calculated without the presence of outliers was adopted as a parameter for projects without identified values, but with similar ones in this Plan's intervention portfolio; and
7. Based on the estimated average cost and project size, the minimum amount for investments in the project was calculated.

For Group C, the following procedures were adopted:

1. Identification of projects with no estimated cost and no counterpart;
2. Analysis of the actions involved in the proposed intervention;
3. Development of a complementary information bank so that it was possible to measure its cost, albeit parametrically. This bank consisted of:
  - Transport infrastructure intervention contracts signed by the federal government for road, rail and waterway modes of transportation;
  - Details of the execution of the expenses of the General Budget of the Union (OGU) combined with the OGU Share Register to identify the contracted amounts and the characteristics of the works;
  - Rio de Janeiro Metropolitan Transportation Master Plan 2015; and
  - DNIT Average Management Costs (May, 2017).
4. Identification of the unit value to be used as a parameter based on the detailed description of the projects and contracts and the actions identified in the complementary information banks;
5. Calculation of the value of Group C projects.

In addition to the rules presented for project valuation, others were applied to measure the minimum investment required to carry out the proposed interventions of this Plan. They were necessary to adjust the estimate of labor cost to non-constructive factors and also to consider the status of interventions that have already been initiated.

## MONETARY CORRECTION

This was the first step for the valuation of the projects of this Plan. The measure was necessary because the dates of proposals and development of the technical studies raised by CNT were diverse and, in order to be comparable, they need be on the same monetary basis. In this sense, the values were adjusted to current value (June, 2018), using the National Index of Construction Costs (INCC) as an inflation corrector. The monetary correction was applied to all projects that had previously estimated values and to all costs that made up the complementary information bank.

## PHYSICAL EXECUTION OR STOPPAGE RULE

The lack of adequate planning for the physical and financial execution of investments in the country means that there are several fundamental interventions for the adjustment of transportation infrastructure that, despite having been started, have not been completed, and therefore remain as part of this Plan. For these, a valuation rule was used to reflect the investments already made (Table A):

Table A - Physical execution rule for valuation of projects of the CNT Transportation and Logistics Plan 2018

Situation	Procedure Adopted
Physical execution of the work < or = 10%	The estimated total value was considered as the minimum investment.
Physical execution > than 10%	The remaining percentage of physical execution (100% - physical execution) + 10% was considered <sup>1</sup> .
No information available on the stage of physical execution of the work	The estimated total value was considered as the minimum investment.

<sup>1</sup> This 10% is required for adjustments to physical and financial implementation flows.

Even more serious than the slow pace of physical execution of interventions is a situation in which there is a stoppage of activity. For these cases, a separate rule was applied to cover the depreciation of the asset during the stoppage period (Table B).

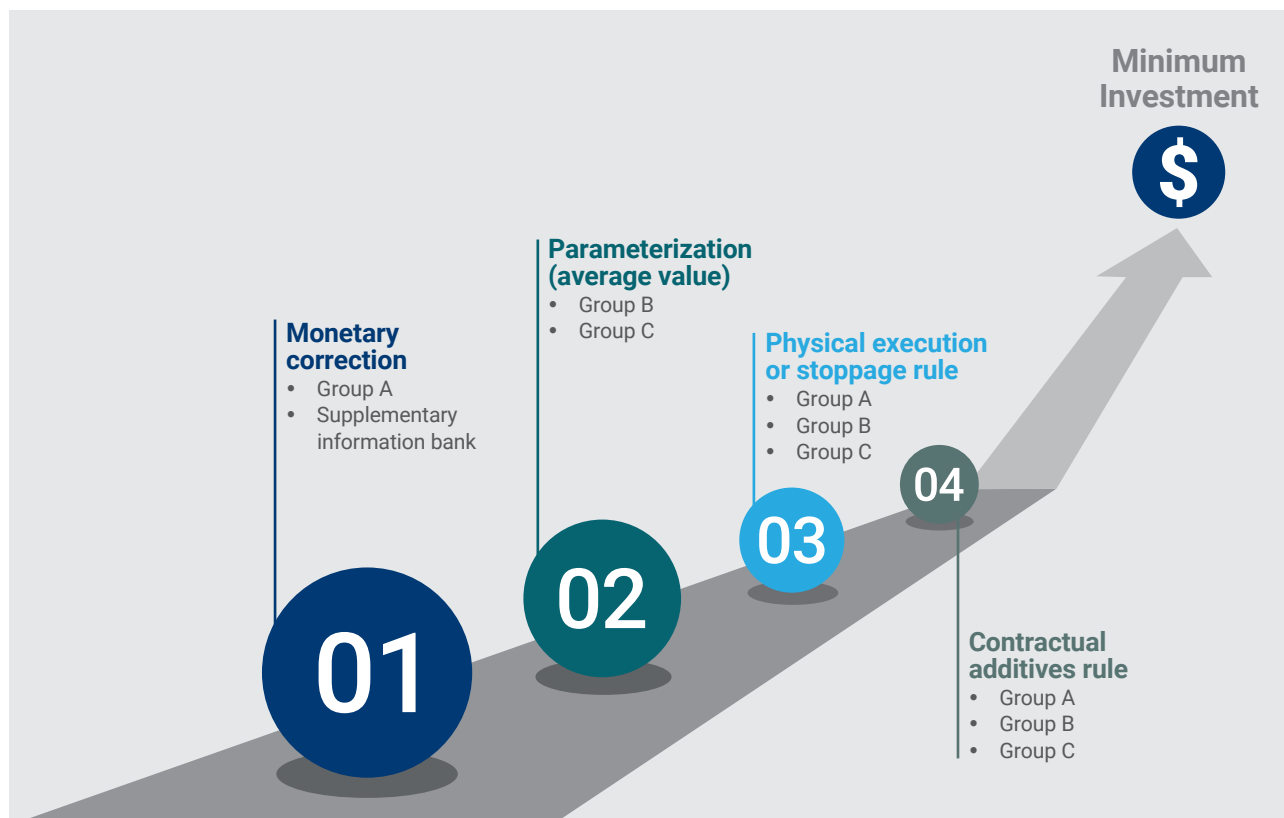
Table B - Work stoppage rule for valuation of projects of the CNT Transportation and Logistics Plan 2018

Situation	Procedure Adopted
If stopped, E percentage of physical execution < or = 40%	The full estimated value was considered.
If stopped, E percentage of physical execution > 40%	The remaining percentage of physical execution was considered. (100% - physical execution) + 20% <sup>1</sup> .

<sup>1</sup>10% is required for adjustments to physical and financial implementation flows and the other 10% to correct the depreciation affecting assets already in implementation.

Once all the procedures described in this Appendix (see the order of application of the rules in Figure A), were complete, the minimum investment estimated to carry out the interventions outlined in this Plan was obtained. It is worth noting that this amount is an estimate and may not accurately reflect the estimated contribution in executive projects. Note also that this is a cost projection at the time of this material’s publication. The postponement of the implementation of interventions will generate changes in value regarding both the monetary update and related to possible changes in construction techniques and economic and political scenarios.

Figure A - Procedures adopted for valuation of projects of the CNT Transportation and Logistics Plan 2018



## APPENDIX B - MINIMUM INVESTMENT BY CATEGORY

Category	Minimum Investment (R\$)
Channel Opening	6.556.569.543,33
Waterway access to port	5.364.969.248,72
Inland access to port	18.395.522.699,45
Airport adjustment	12.724.661.246,18
Adjustment of express lane or BRT or RTM	4.695.331.239,32
Station adjustment	3.045.983.666,31
Waterway adjustment	48.550.763.984,63
Road adjustment	40.093.002.697,67
Terminal adjustment - Urban	753.524.622,46
Terminal adjustment - Urban	7.743.392,52
Urban road adjustment	7.806.441.128,90
Acquisition and improvement of rolling stock	1.884.000.784,44
Port area	23.686.011.463,66
Airport construction	17.590.218.490,10
Station construction	4.769.668.750,00
Railway construction	307.905.386.271,15
Construction of metro or urban train	158.953.422.178,96
Construction of metro or urban train	43.334.642.570,60
Port construction	85.892.771.032,96
Road construction	59.452.008.872,24
HSR construction	166.029.271.168,16
Terminal construction	24.929.227.868,30
Terminal construction - Urban	1.892.203.927,79
Urban road construction	15.850.906.498,41
Cargo riverboat	92.459.107.655,51
Railway duplication	2.124.589.878,22
Road duplication	297.539.455.555,65
Urban road duplication	372.645.317,59
Elimination of bottlenecks	2.211.014.353,97
Implementation of waterway transportation corridor	4.512.775.292,71
Implementation of express lane or BRT or RTM	41.719.761.768,56

## APPENDIX B – MINIMUM INVESTMENT BY CATEGORY

continuation

Category	Minimum Investment (R\$)
Road paving	46.067.059.948,05
Railway restoration	53.701.100.203,31
Railway restoration - Urban	8.169.259.277,28
Restoration of pavement	52.967.164.558,55
<b>Total</b>	<b>1.662.008.187.155,66</b>

## APPENDIX C - MINIMUM INVESTMENT BY INFRASTRUCTURE

Category	Minimum Investment (R\$)
Airport	30.314.879.736,28
Waterway	4.512.775.292,71
Rail	744.312.686.686,09
Inland Waterway	147.566.441.183,47
Port	133.339.274.444,79
Road	566.563.777.584,94
Terminal	35.398.352.227,38
<b>Total</b>	<b>1.662.008.187.155,66</b>

## APPENDIX D – MINIMUM INVESTMENT BY CORRIDOR – NATIONAL INTEGRATION PROJECTS

Corridor	Minimum Investment (R\$)
E1	262.315.459.834,34
E2	270.381.679.605,05
E3	313.141.283.587,62
E4	18.319.227.289,00
E5	64.674.757.794,24
E6	86.696.458.700,53
E7	118.966.736.916,39
E8	108.508.150.748,76
E9	121.989.646.886,34
<b>Total</b>	<b>1.364.993.401.362,27</b>



## APPENDIX E – MINIMUM INVESTMENT BY METROPOLITAN AREA<sup>1</sup> – URBAN PROJECTS

Metropolitan Area	Minimum Investment (R\$)
MR São Paulo	82.228.939.071,93
MR Rio de Janeiro	26.109.496.721,07
MR Belo Horizonte	65.112.757.669,43
IDR of Federal District and Surrounding Areas	27.050.940.381,31
MR Porto Alegre	17.225.202.900,96
MR Fortaleza	11.364.743.493,29
MR Salvador	13.668.541.882,19
MR Recife	11.209.538.114,50
MR Curitiba	13.270.743.732,55
MR Manaus	3.416.766.135,45
MR Goiânia	3.031.360.586,00
MR Belém	877.443.077,75
MR Greater Vitória	1.496.506.783,90
MR Greater São Luís	316.083.347,91
MR Natal	1.510.224.163,97
MR Maceió	1.522.174.288,77
MR João Pessoa	622.900.320,68
IDR Greater Teresina	959.202.409,70
MR Florianópolis	591.085.852,80
MR Cuiabá River Valley	1.500.431.419,58
Other	13.929.703.439,66
<b>Total</b>	<b>297.014.785.793,39</b>

<sup>1</sup> The term “metropolitan groupings” is used in this report to refer to the set of MRs, IDRs, and/or Conurbations. In the table, the 20 main MRs and IDRs are highlighted, according to the criteria of population and state capital. The projects located in the other metropolitan groupings and urban centers are presented as a single value in the item “Other”.



# CNT TRANSPORTATION and LOGISTICS PLAN 2018



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