BAHIA

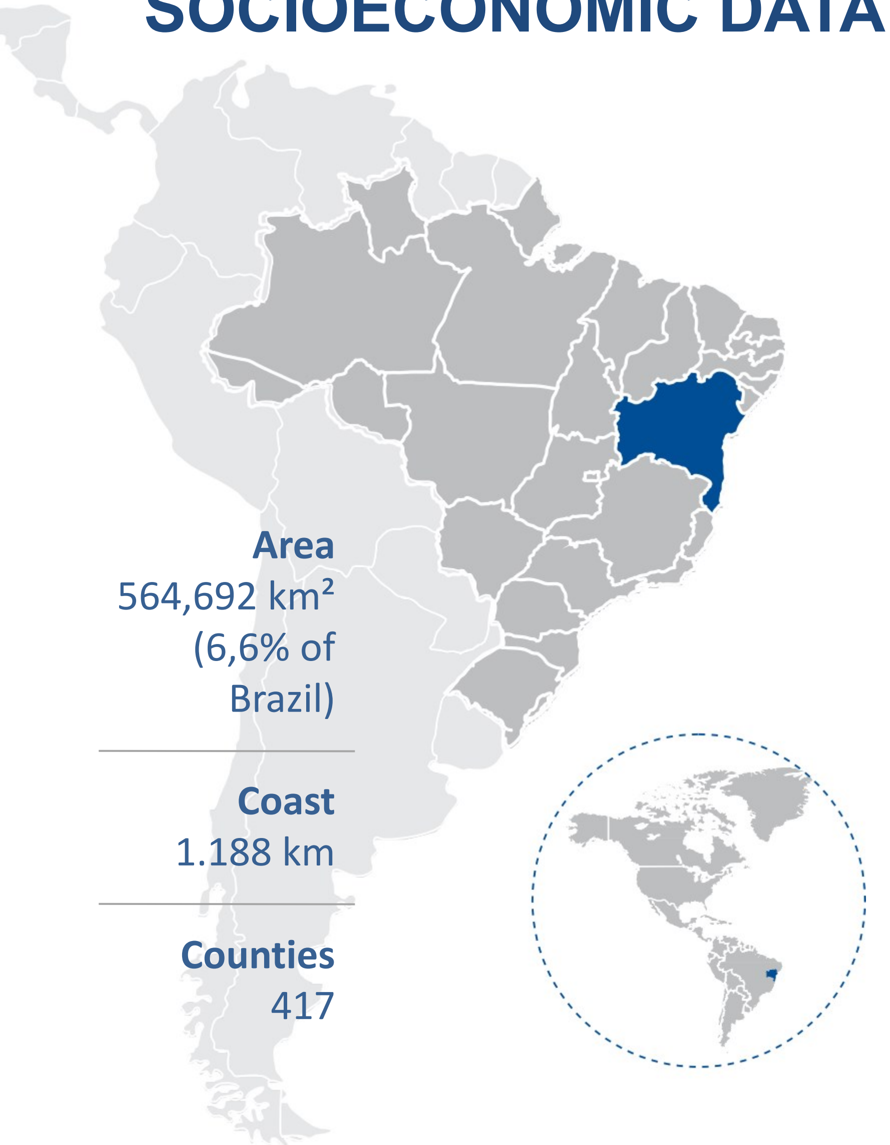
INVESTMENT OPPORTUNITIES

GOVERNO DO ESTADO

BAHIA. AQUI É TRABALHO.

SOCIOECONOMIC DATA

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.



Area
564,692 km²
(6,6% of Brazil)

Coast
1.188 km

Counties
417

Business Flow (2018)

US$ 16,7 bi — Exports + Imports

47,4% — Share of exports in relation to the total of the Northeast Region

3,7% — Share of exports in relation to the total of the Country

Source: SEI (2019)

Job

246 mil — New jobs generated (2010-2019)

Source: SEI (2019)

Degree of Urbanization (2017)

72,8% — Bahia

98,1% — Metropolitan Region of Salvador

Source: SEI (2019)

Population

14,9 mi
IBGE (2018)

1ª from northeast

4ª from the country

GDP (2018)

US$ 73 bi

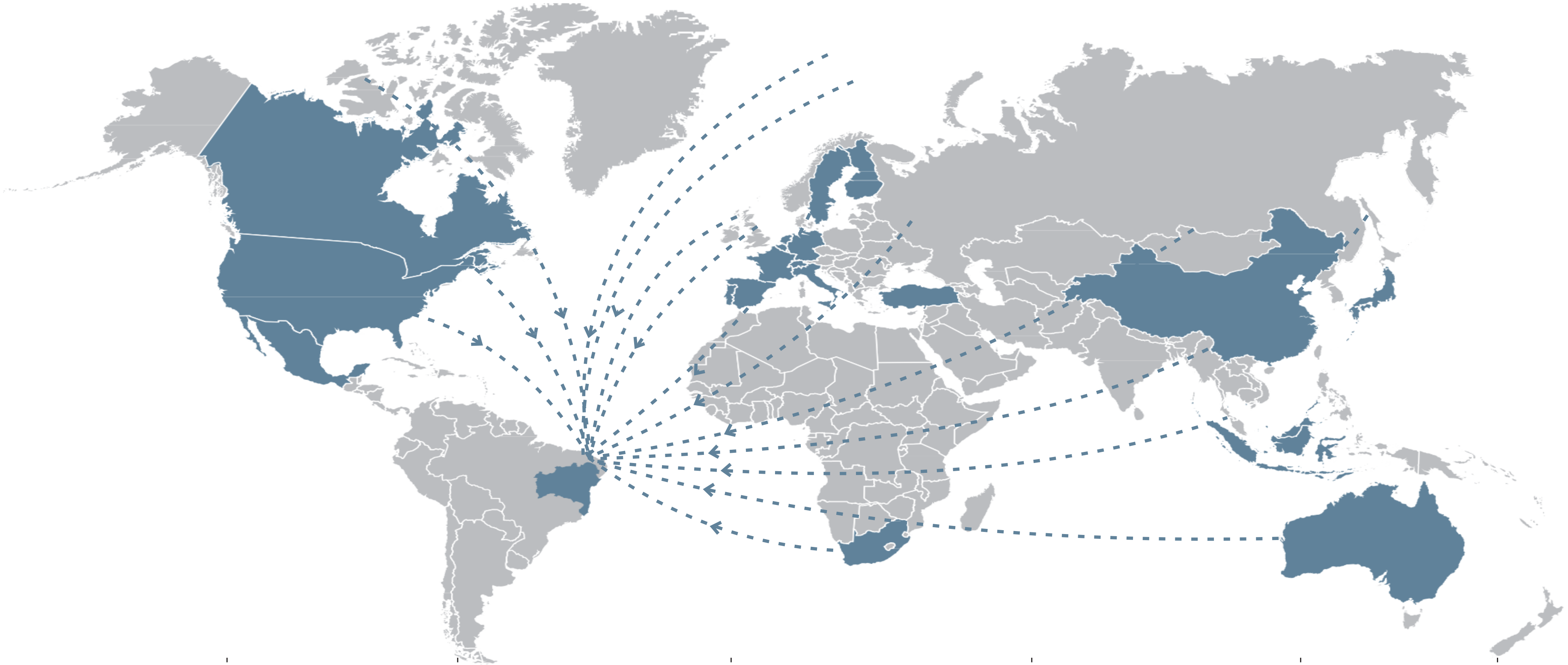
7ª Country Economy

5ª Preferred destination for foreign investments

Average dolar = R$ 3,70
Source: BACEN (2019)

COUNTRIES INVESTING IN BAHIA

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.



USA
Agroindustry, Wind Energy, Chemical, Plastic, Automotive, Cosmetic, Biofuel

Mexico
Chemical, Agroindustry

France
Wind Energy, Chemical, Agroindustry, Civil Construction

Finland
Cellulose

Sweden
Cellulose, Automotive

Netherlands
Agroindustry, Chemical

England
Mineração, Food and Beverage

Germany
Wind Energy, Automotive, Chemical, Petrochemical, Biofuel

Belgium
Chemical, Wind Energy, Metallurgical, Beverage

Spain
Wind Energy, Automotive (tyres), Trade and Services

Switzerland
Agroindustry, Power Generation

Portugal
Textile, Chemical, Civil Construction, Metallurgical, Solar Industry

Australia
Mining

Japan
Automotive, Electrical and Electronic

Indonesia
Cellulose

Thailand
Tobacco

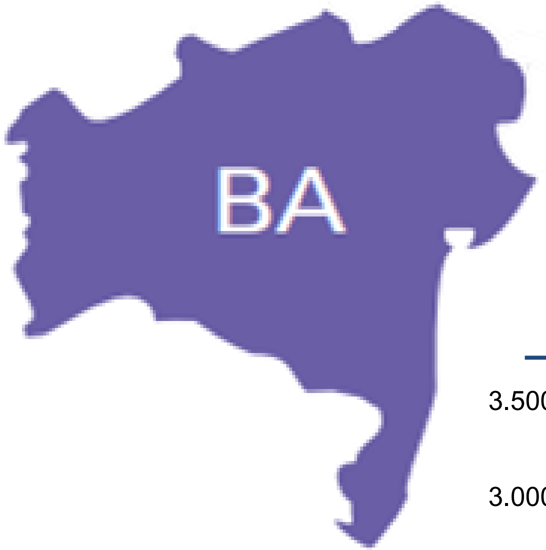
Turkey
Chemical

South Africa
Textile

Italy
Mechanical Metal, Chemical, Wind Energy, Furniture, Leather, Automotive, Footwear, Rubber

China
Agroindustry, Automotive, Mining

Canada
Automotive, Mining



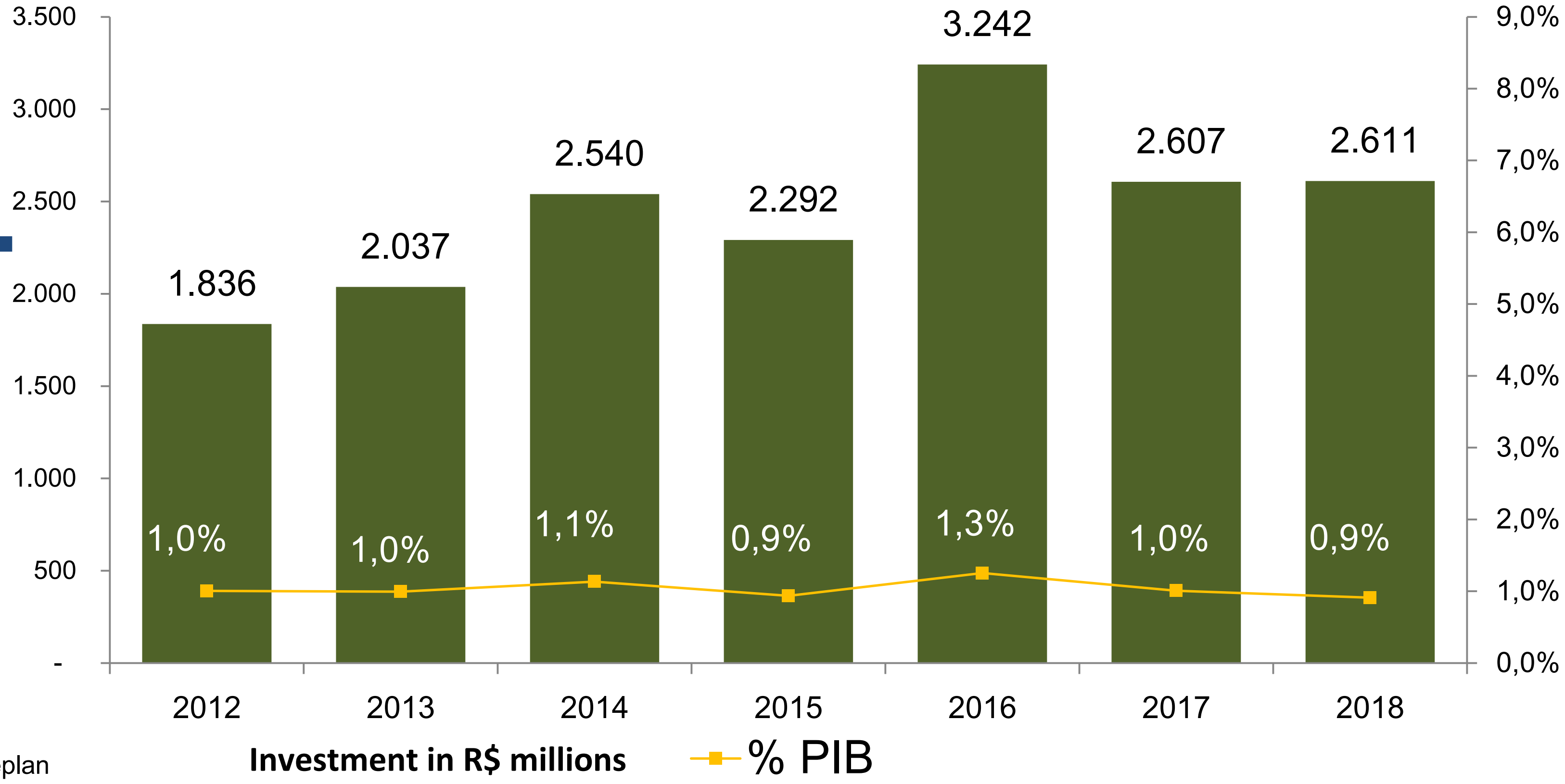
GDP = R$ 288 (U$$ 73) billions

Population = 14,9 million people

GDP per capita = R$ 19.380 thousands

SEI 2018

Investment in absolute values and in percentage of GDP



Fonte: Balanço Anual do Estado e SEI/Seplan

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

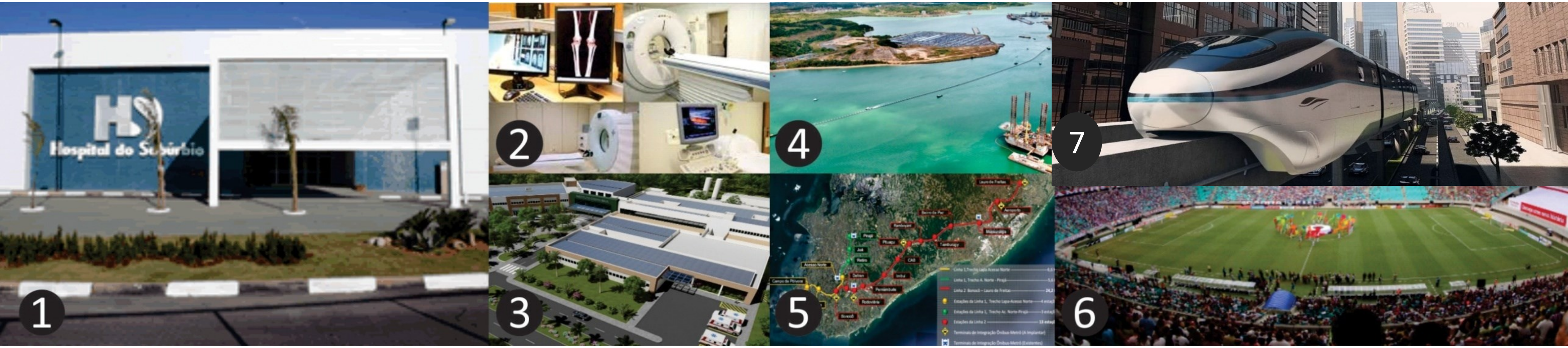
PPP PROJECTS IMPLEMENTED

MORE THAN US $ 165 MILLION PER YEAR AND MORE THAN US $ 1.65 BILLION IN INVESTMENTS

1 – Hospital of the Suburb
2 – Image Diagnosis
7 - VLT

3 – Hospital for Infectious Diseases
4 – Submarine Outfall

5 – Subway of Salvador
6 - Itaipava Arena Fonte Nova

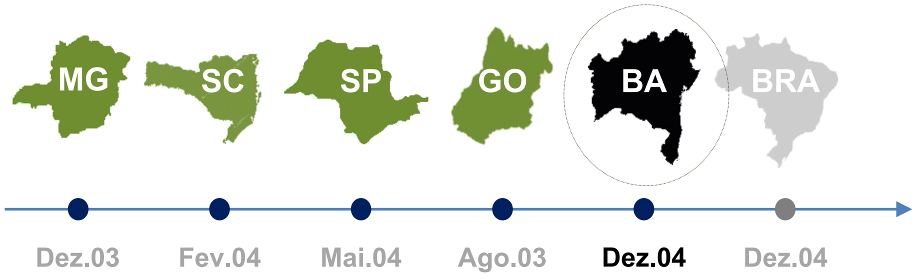


PPP (Public Private Partneship) Program of Bahia State

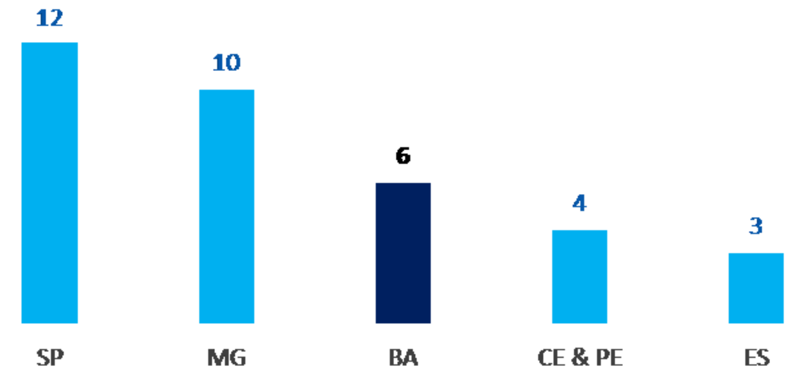
EXECUTIVE SECRETARY

- Created by Act 9.290/2004, and regulated by Decree Nº 9.321/2005, as a unit linked to Sefaz – State Treasury Secretary
- The Executive Secretary is a technical institution that supports the Managing Council, responsible for the interaction, coordination and negotiation between the private and public institutions.

5th State to legislate on PPPs

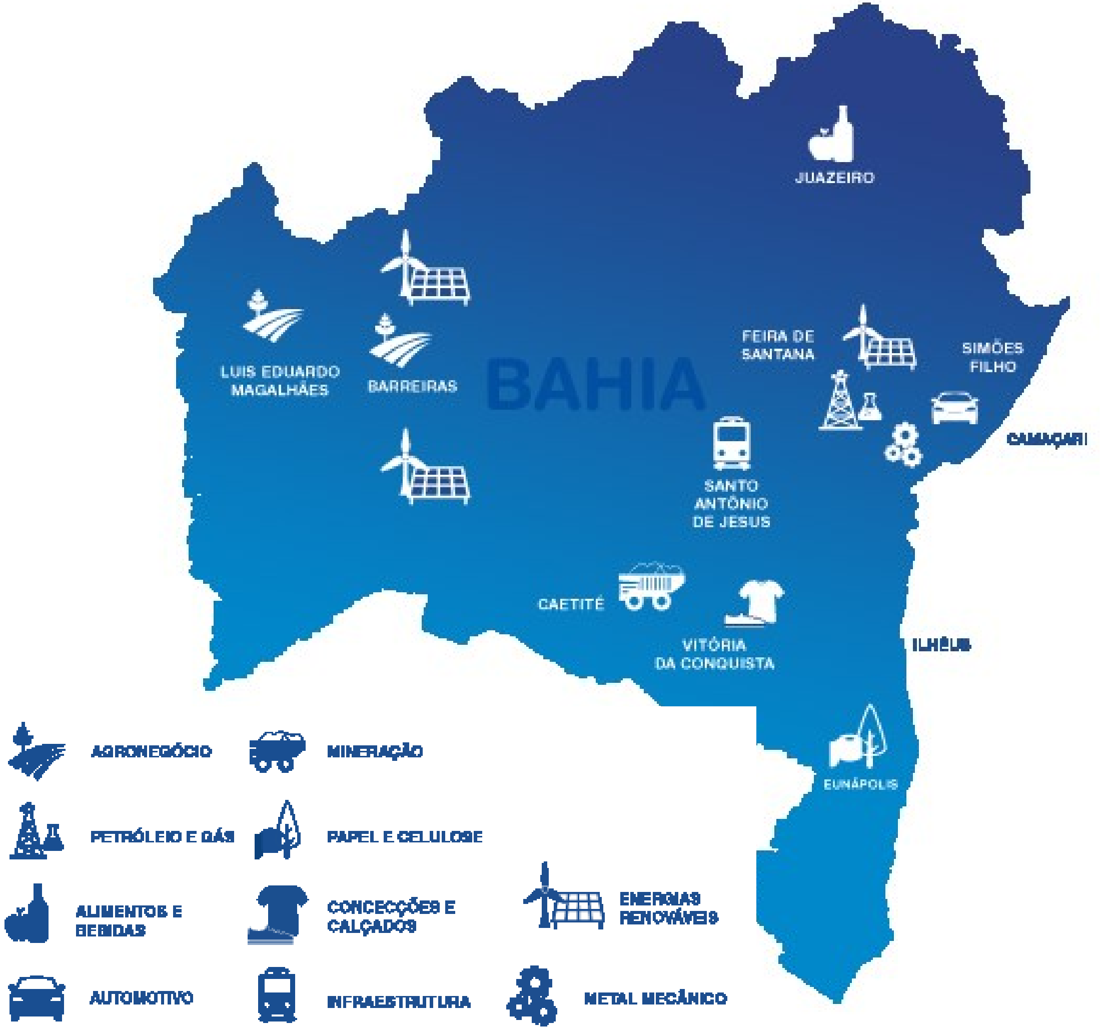


3rd State with greater number of PPPs



Fonte: SEFAZ (2018)

BAHIA | INVESTMENTS



INVESTMENTS 2007 – 2019 (until 4/10/2019)
Executed

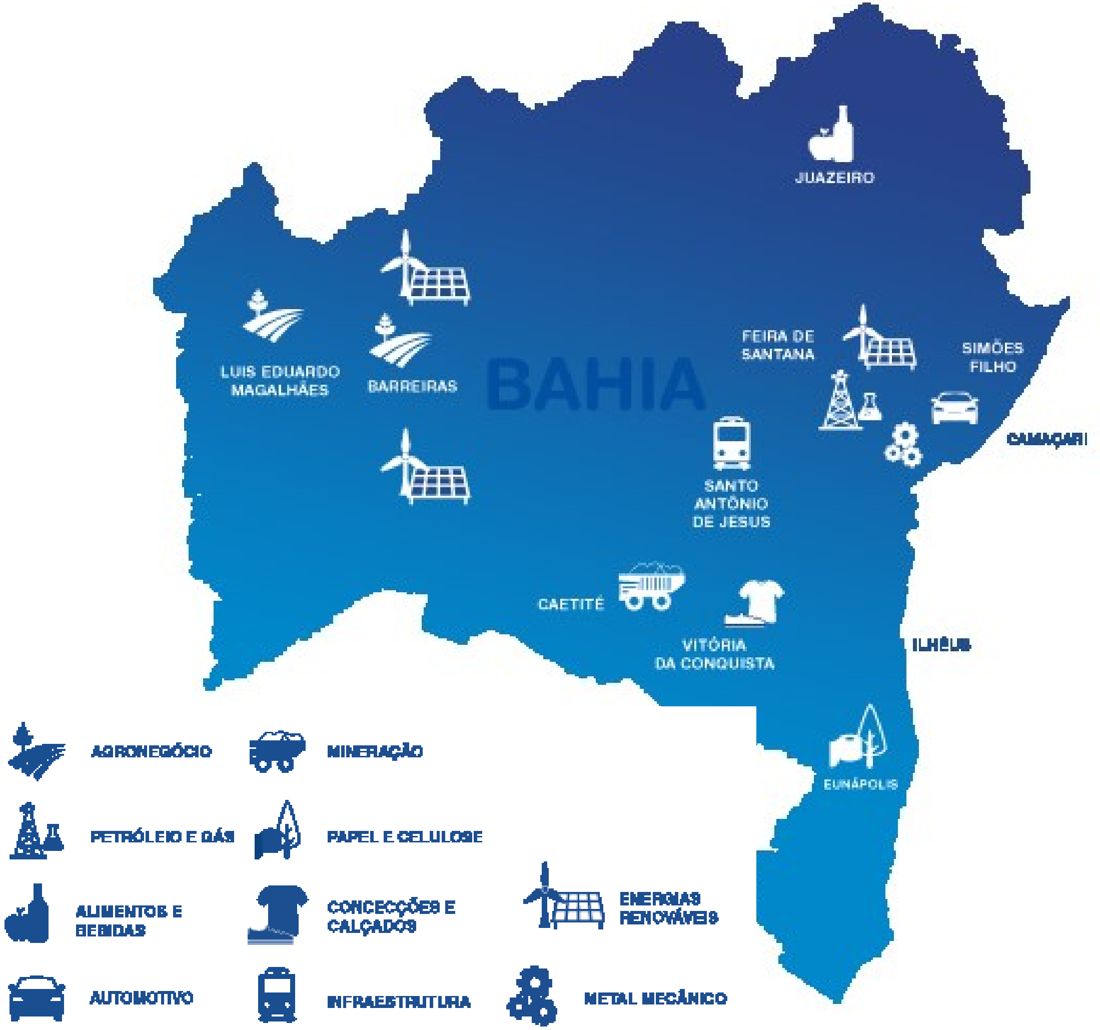
BAHIA
978 Projects
111.203 Jobs
US$ 7.3 bi

GREAT SALVADOR
34% Projects
29% Jobs
34% Investments

INTERIOR
66% Projects
71% Jobs
66% Investments

Average Dolar = R$ 3,70

BAHIA | INVESTMENTS



INVESTMENTS 2020 - 2023
In Deployment

BAHIA
339 Projects
32.469 Jobs
US$ 6.2 billion

GREAT SALVADOR
26% Projects
30% Jobs
15% Investments

INTERIOR
78% Projects
74% Jobs
89% Investments

Average Dolar = R$ 3,70

ECONOMIC SECTORS

AGRIBUSINESS

AUTOMOTIVE

RENEWABLE ENERGY

MINING

PERFUMERY AND COSMETICS

HEALTH

FOOD AND BEVERAGES

FOOTWEAR AND LEATHER

INFRASTRUCTURE

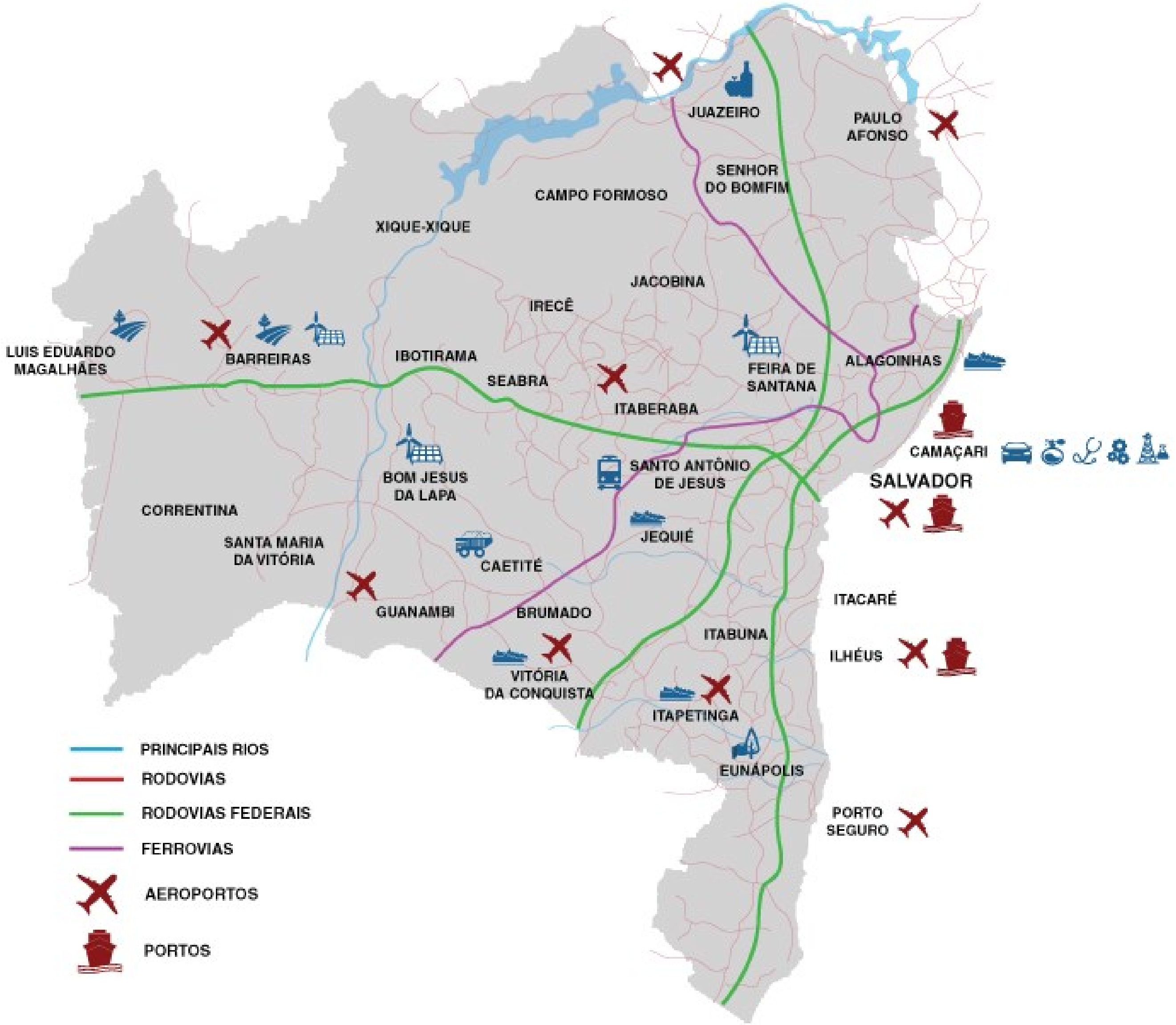
PAPER AND CELLULOSE

PETROLEUM | GAS | CHEMICAL

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

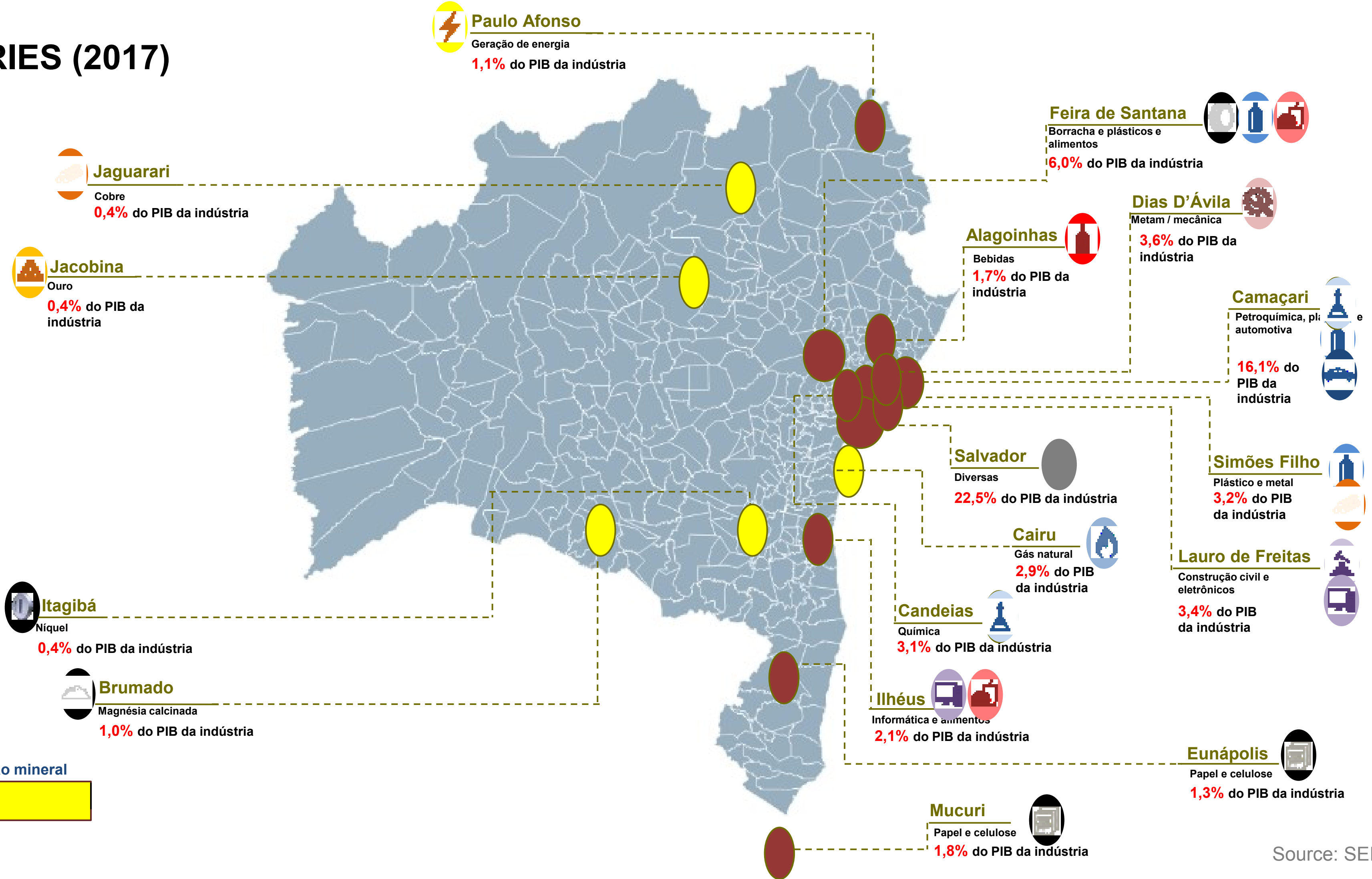
BAHIA MAP

- AGRONEGÓCIO
- AUTOMOTIVO
- MINERAÇÃO
- CALÇADOS E COURO
- PAPEL E CELULOSE
- PERFUMARIA, COSMÉTICOS E HIGIENE PESSOAL
- SAÚDE
- ALIMENTOS E BEBIDAS
- METAL MECÂNICO
- ENERGIAS RENOVÁVEIS
- PETROQUÍMICO, PETRÓLEO E GÁS
- INFRAESTRUTURA



OPPORTUNITIES

MAIN INDUSTRIES (2017)



Legenda:

Transformação	Extração mineral

Fonte: IBGE (2017)

Source: SEI (2018)

OPPORTUNITIES

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

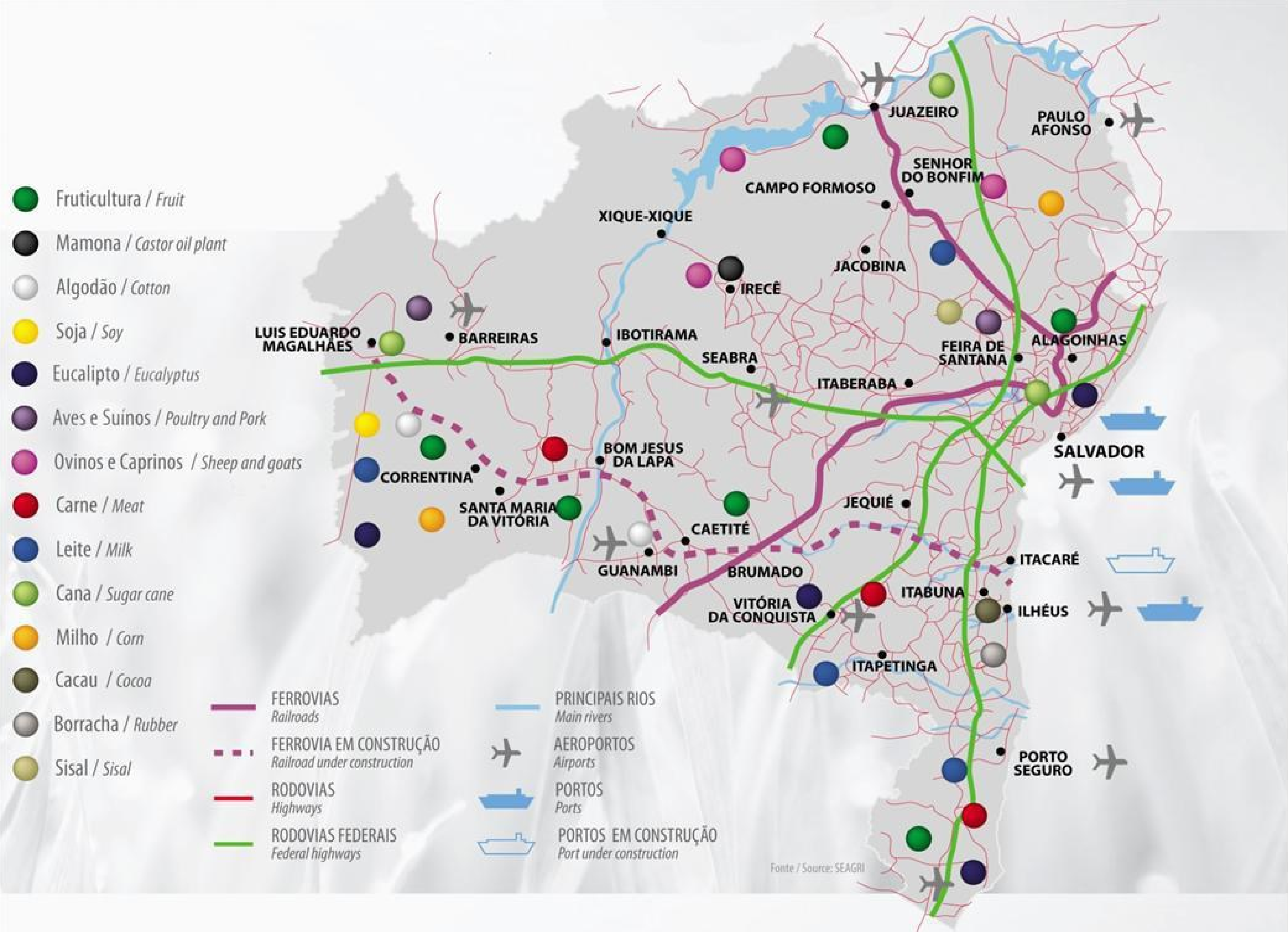
INVESTMENTS EXPECTED UNTIL 2023
Segments that use Natural Gas in their production process

SEGMENT	COMPANIES	INVESTMENT (US $)
PAPER AND CELLULOSE	12	351,630,000
PLASTICS AND RUBBER	31	278,248,788
CHEMICAL AND PETROCHEMICAL	34	206,743,030
FOODS	46	62,878,788
MINING	2	44,433,030
DRINKS	8	28,545,455
PHARMACOLOGICAL AND PHARMACEUTICAL	4	9,242,424
PETROLEUM BYPRODUCTS AND BIOFUEL	3	7,954,545
METALLURGY / STEEL INDUSTRY	3	351,630,000
TOTAL	**143**	**1,454,096,364**

Average dolar = R$ 3.70
Source: BACEN (2019)

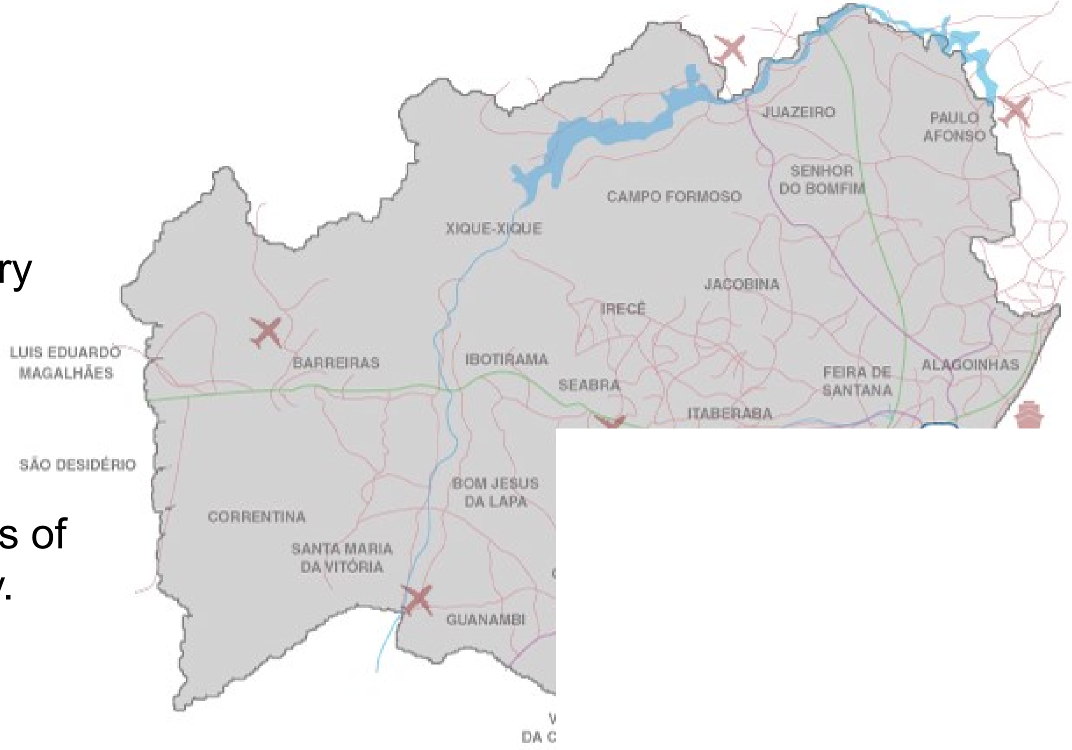
MAP OF AGRIBUSINESS

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.



Fonte: SEAGRI (2014)

AUTOMOTIVE



VEHICLES

- 4th largest producer of vehicles in the country
- 8% market share in the country
- Houses one of Ford's five design centers worldwide
- Innovative production model, with high levels of automation using state-of-the-art technology.
- High standard of efficiency and quality of its operations

PRODUCTION CAPACITY

- 250 thousand vehicles per year
- 210 thousand engines per year

Fonte: FORD , 2018

Fonte: ANFAVEA , 2018

RODOVIAS / Highways
RODOVIAS FEDERAIS / Federal highways
FERROVIAS / Railways
AEROPORTOS/Airports
PORTOS/Ports

GOVERNO DO ESTADO | BAHIA, AQUI É TRABALHO.

MINING

2nd largest producer of bentonite.

• 3rd producer of copper, mineral water, precious stones, silver, with emphasis on the production of gold and ornamental stones.

• Production of more than 30 gemological varieties (emerald, amethyst, rutile, etc.) and unique producer of kimberlite diamonds.

• Only world producer of blue granite (Azul Bahia, Azul Macaúbas and Azul Boquira) and only state to produce the Travertine marble - Bege Bahia.

• Largest reservoir of siliceous sand of high purity in Brazil for the production of glass and optic fiber (reserves estimated at 10 million tons)

• National leader in the production of chromium, uranium, magnesite, talc, salgema and vanadium.

• It houses about 367 mining companies, responsible for about 15 thousand jobs

YAMANAGOLD

LARGO RESOURCES

RioTinto Alcan

BAHIA MINERA

RODOVIAS / Highways
RODOVIAS FEDERAIS / Federal highways
FERROVIAS / Railways
AEROPORTOS/Airports
PORTOS/Ports

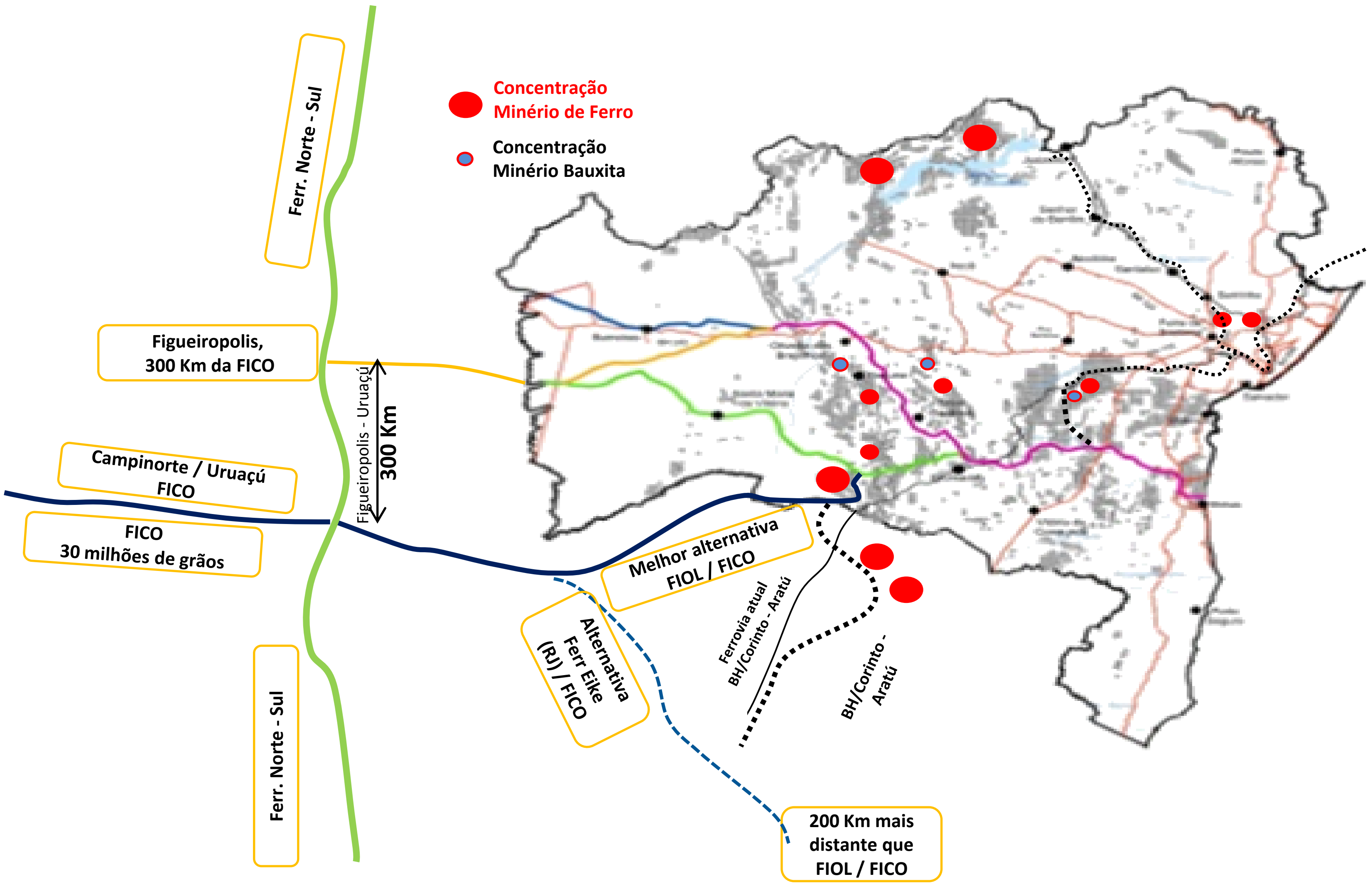
MINING

PERS
PROJ

- Ferro
- Area silicosa de alta puresa
- Bauxita
- Gipsita
- Cimento
- Cromo e minerais
- Grafita
- Areias
- Barita

Source: SDE (2017)

Mining Provinces



PAPER AND CELLULOSE

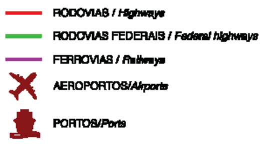
OVERVIEW OF THE SECTOR

National reference in pulp and paper production

- 4th largest eucalyptus producer in Brazil
- Highest world production potential
  Favorable soil and climate conditions

OPPORTUNITIES IN THE SECTOR

- Attractive opportunity for manufacturers to install paper mills and personal hygiene products.
- Opportunities for factories of machines and equipment.
- Consolidation of the production chain.
- Opportunities for forest poles

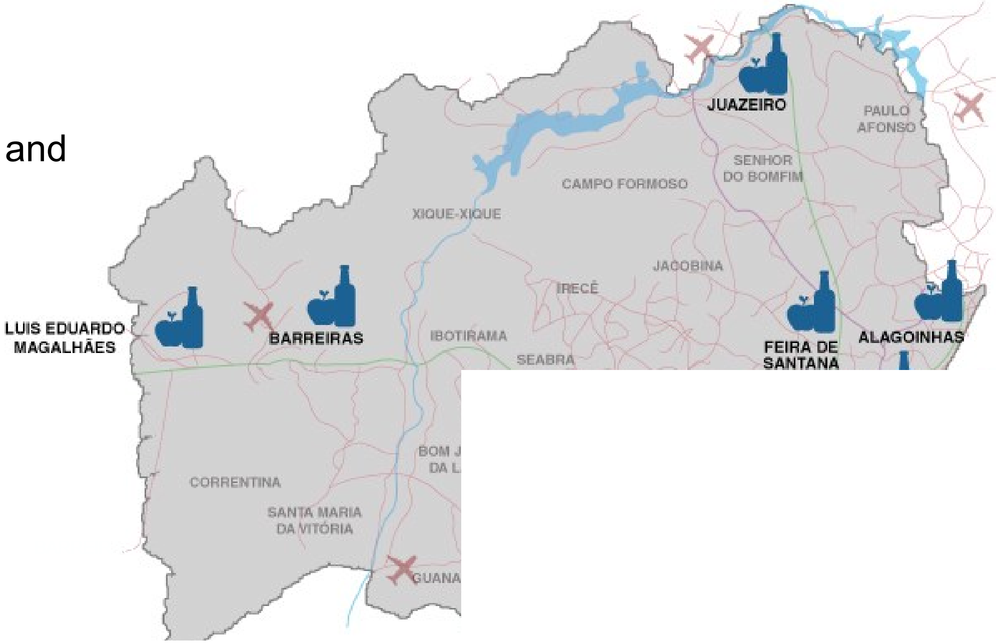


FOOD AND BEVERAGES

OVERVIEW OF THE SECTOR

Production growth (July / 2018) of 5.5% in the food sector and 14% in the beverage sector.

- Highlight in the production of gourmet chocolate.
- Production of quality coffee and 3rd largest domestic producer.
- 2nd Largest milk production in the Northeast.
- Excellent water quality, considered one of the best in the world. • Highlight in the production of wines with high productivity and quality of the grapes.
- Manufacture of quality Cachaça



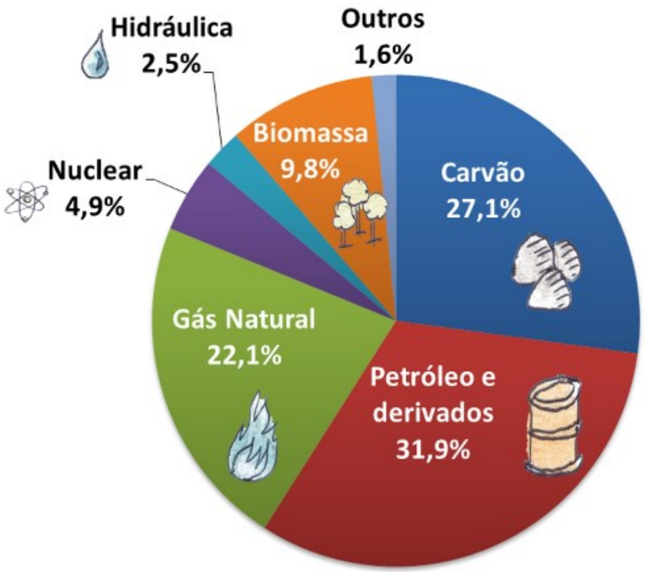
INVESTMENT OPPORTUNITIES

Market expansion potential for wines, sparkling wir artisanal beers and cachaças.

- Installation of industries of packages for water;
- Production of organic and dietetic foods, specialty coffees and gourmet chocolates.

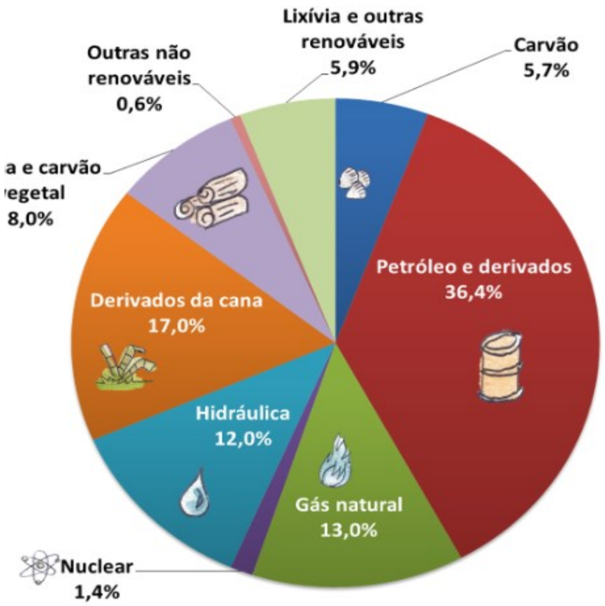
Power Matrix

World



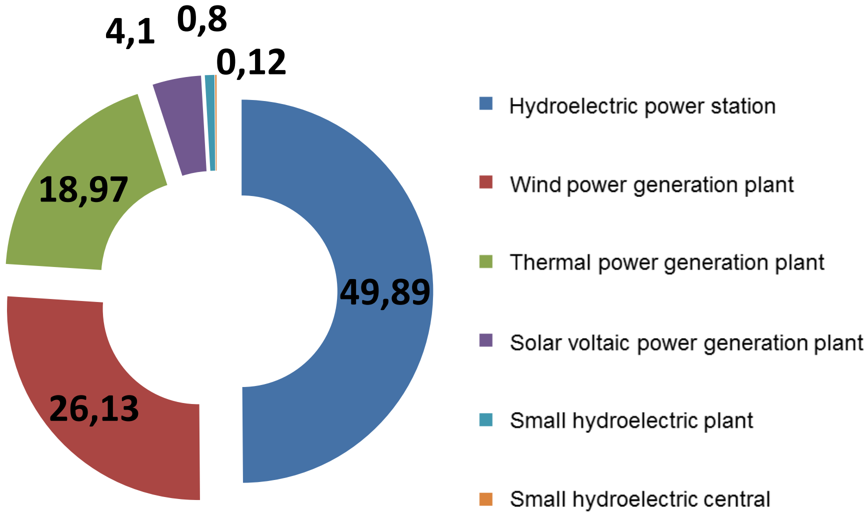
Matriz Energética Mundial 2016 (IEA, 2018)

Brazil



Matriz Energética Brasileira 2017 (BEN,2018)

Bahia



- The Northeastern region has the greatest eolic and photovoltaic solar potentials of Brazil and also presents a big potential for using biomass;
- Big eolic and photovotaic solar potentials in needy regions, give way to important social and environmental projects

OPPORTUNITIES

THERMAL TREND

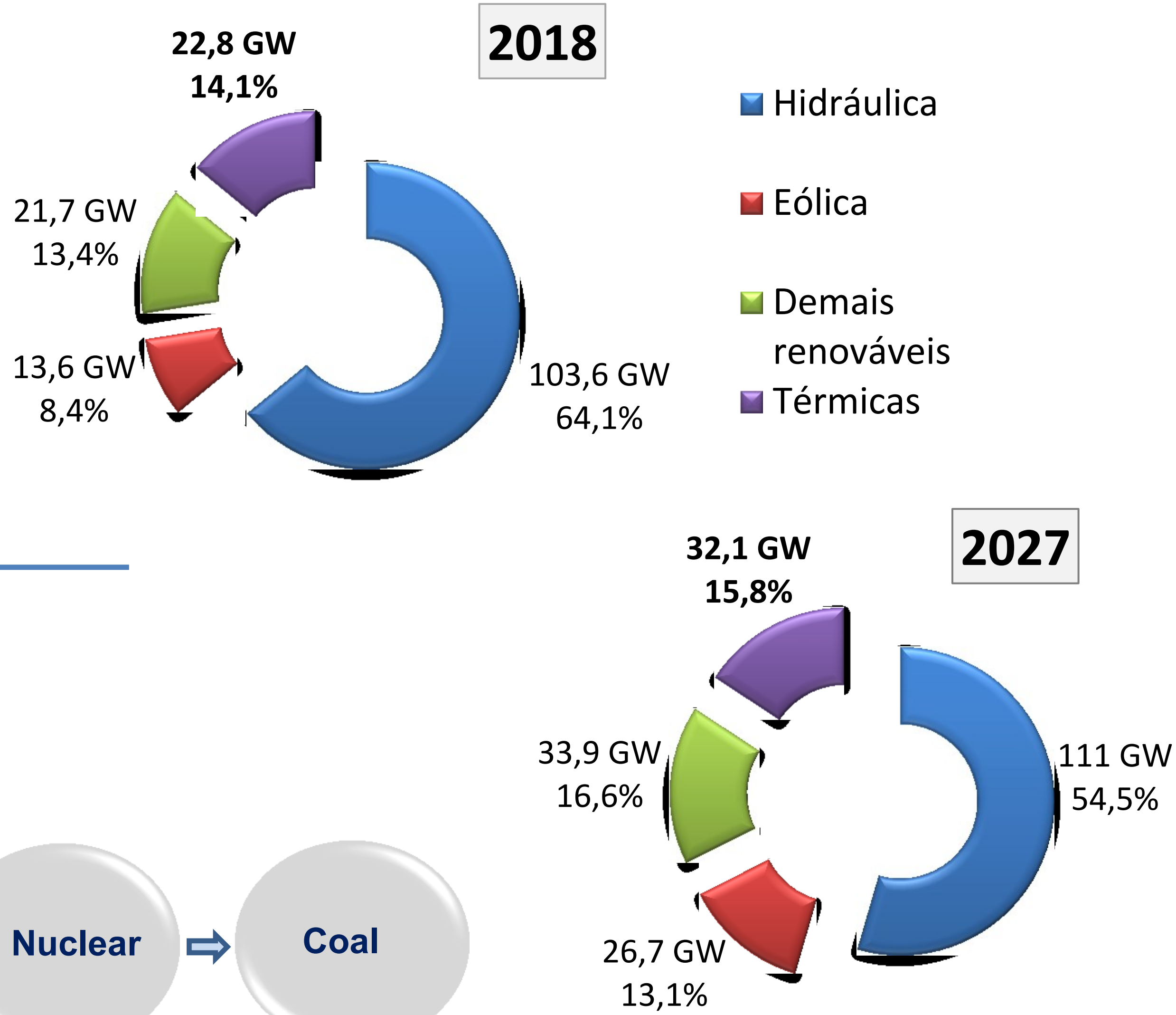
THERMAL TREND LOWER

HYDROELECTRIC EXPANSION WILL MEAN:

- Greater expansion of renewables;
- Increased thermoelectric expansion
- The need for additional power and security of supply

BASIC GENERATION

Natural Gas ⇨ **Nuclear** ⇨ **Coal**

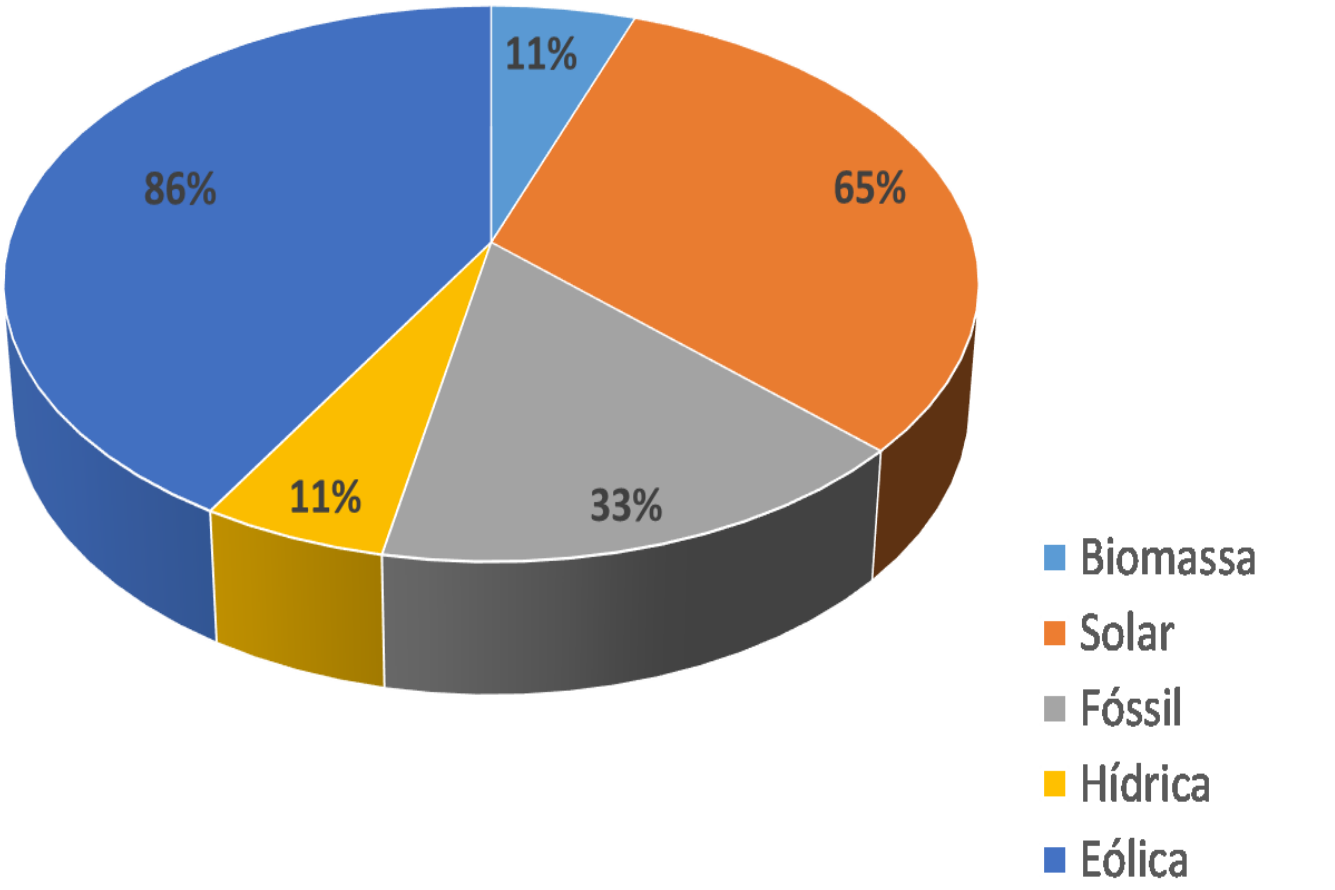


Fonte: EPE (2018)

Northeastern Region Share of the Domestic Installed Capacity (ANEEL, 2019)

- The Northeastern region is an important contributor to the diversification of the Brazilian Power Matrix and one of the cleanest of the world;

- Brazilian northeast has the potential to be one of the biggest world producers of clean power



RENEWABLE ENERGIES

OVERVIEW

WIND ENERGY

GENERATION POTENTIAL

- 100M - 70,000 MW
- 150M - 195,000 MW
- 1.5x the Brazilian electrical matrix
- Best Winds: constant, unidirectional and without gusts.
- Wind farms with capacity factor of more than 50%

PHOTOVOLTAIC SOLAR ENERGY

GENERATION POTENTIAL

Broad areas in semi-arid regions for plant installation

- Annual radiation: 1,800kWh / m²
- Centralized generation: 218GW
- Annual radiation: 2,000kWh / m²
- Centralized generation: 185GW
- Annual upper radiation: 2,200kWh / m²
- Centralized generation: 100GW

DISTRIBUTED GENERATION

- 1% of the state's total electricity consumption in the year 2016 Estimated annual production of 262 GWh

RAW MATERIAL AVAILABILITY

- Production of extra-clear glass (silica mine of high purity)
- Wafer production (quartz with low boron content)

BEN 2019 | Repartição da oferta interna de energia - OIE

RENOVÁVEIS ▶ 45,3%

Biomassa da Cana
17,4%

Hidráulica[1]
12,6%

Lenha e Carvão Vegetal
8,4%

Lixívia e outras renováveis
6,9%

NÃO RENOVÁVEIS ▶ 54,7%

Petróleo e derivados
34,4%

Gás Natural
12,5%

Carvão Mineral
5,8%

Urânio
1,4%

outras não renováveis
0,6%

[1] *Inclui importação de eletricidade oriunda de fonte hidráulica*

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

WIND / SOLAR ENERGY

WIND ENERGY

PROVIDERS

- NACELE and HUB | GE-Alstom, Gamesa, Nordex-Acci
- TOWERS | Torrebras, Wobben, Northeast Wind Towers

REGULATED MARKET

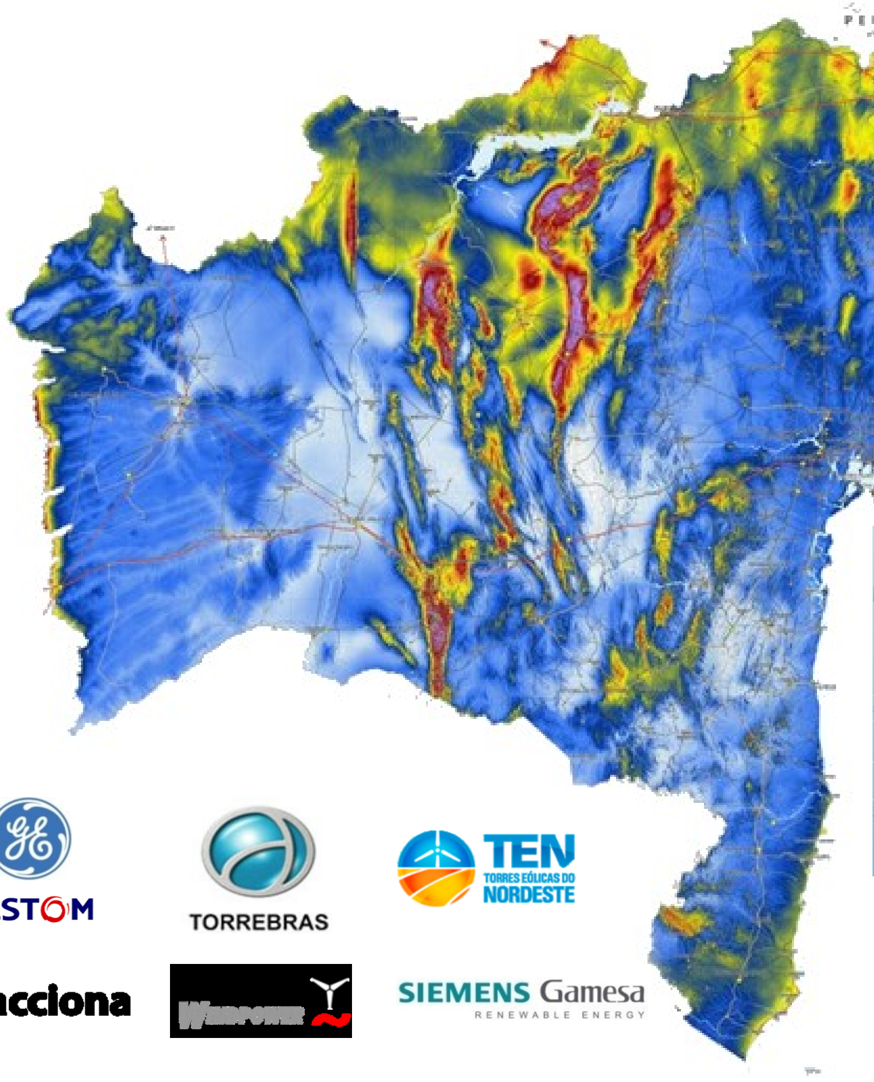
- 191 projects | 4,578 MW
- 127 projects in operation | 3,332 MW
- 37 projects under construction | 618 MW
- 27 projects with uninitiated construction | 628 MW

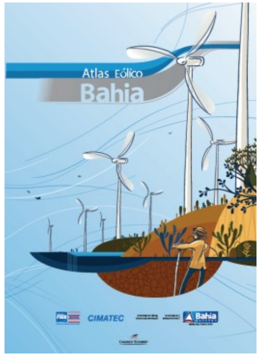
FREE MARKET

- 52 projects | 940 MW
- 15 projects in operation | 303 MW
- 15 projects under construction | 237 MW
- 22 projects with uninitiated construction | 400 MW

FREE + REGULATED MARKET

- 243 projects | 5,518 MW
- 142 projects in operation | 3,635 MW
- 52 projects under construction | 855 MW
- 49 projects with uninitiated construction | 1.028 MW





Source: ANEEL (2019)

RENEWABLE ENERGY

WIND AND SOLAR ENERGY PHOTOVOLTAIC

Areas of intersection in the central region of Bahia Ex .: Caetité, Guanambi, Xique-Xique and Sento Sé

HYBRID PARKS

HYBRID GENERATION POTENTIAL

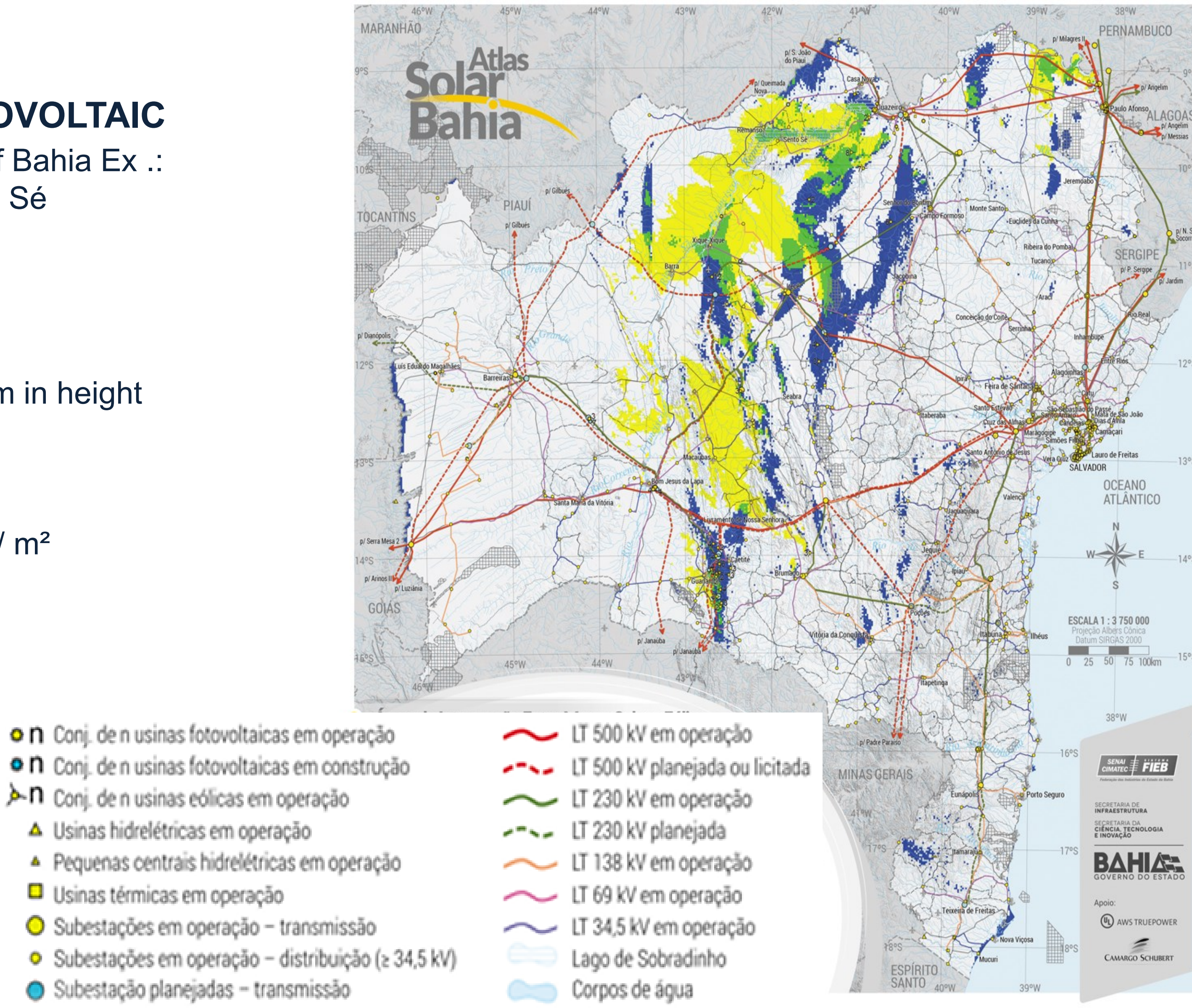
Wind - Winds greater than 7.0 m / s at 100m in height

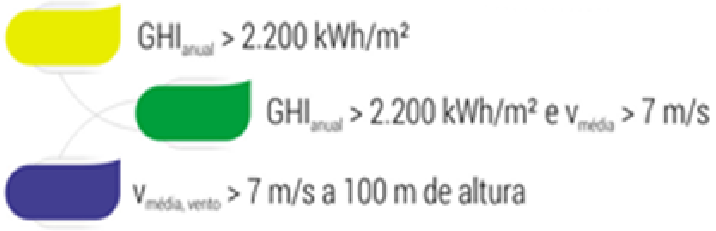
Estimated Capacity 70 GW

Solar - Annual Irradiation Level 2,200 kWh / m²

Estimated Capacity 100 GW

Estimated Total Capacity of 170 GW





SOLAR ENERGY

PANORAMA OF PROJECTS

- 31 projects | 759.3 MW
- 26 projects in operation | 634.7 MW
- 1 project under construction | 30 MW
- 4 projects with uninitiated construction | 94.6 MW

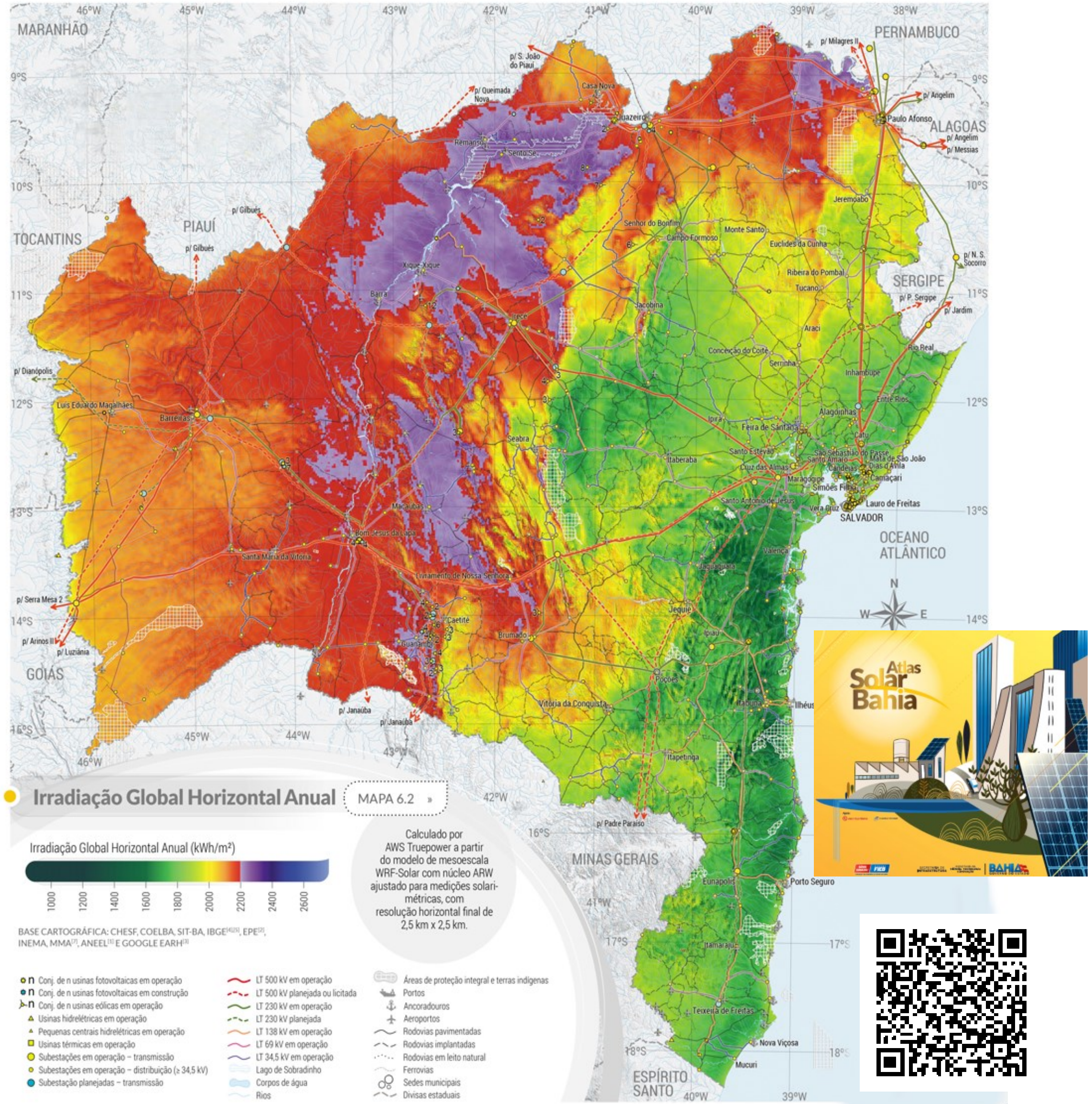
PHOTOVOLTAIC RESIDENTIAL TECHNICAL POTENTI

Potencial Fotovoltaico Residencial (MW médios)	2.360
Potencial Fotovoltaico Residencial (GWh/ano)	20.674
Consumo Residencial Anual 2013 (Gwh)	6.144
Potencial Fotovoltaico/ Consumo Residencial	337%

GENERATING PARKS

- Bom Jesus da Lapa
- Tabocas do Brejo Velho
- Juazeiro

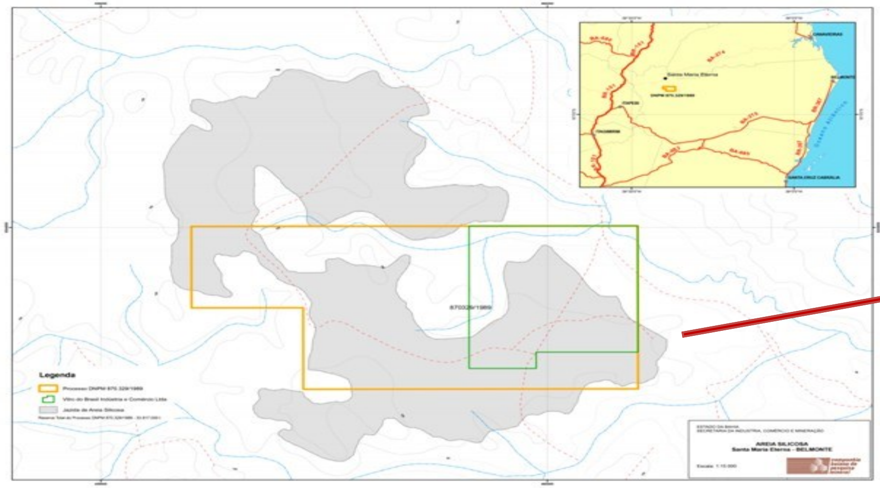
Source: ANEEL (2019)

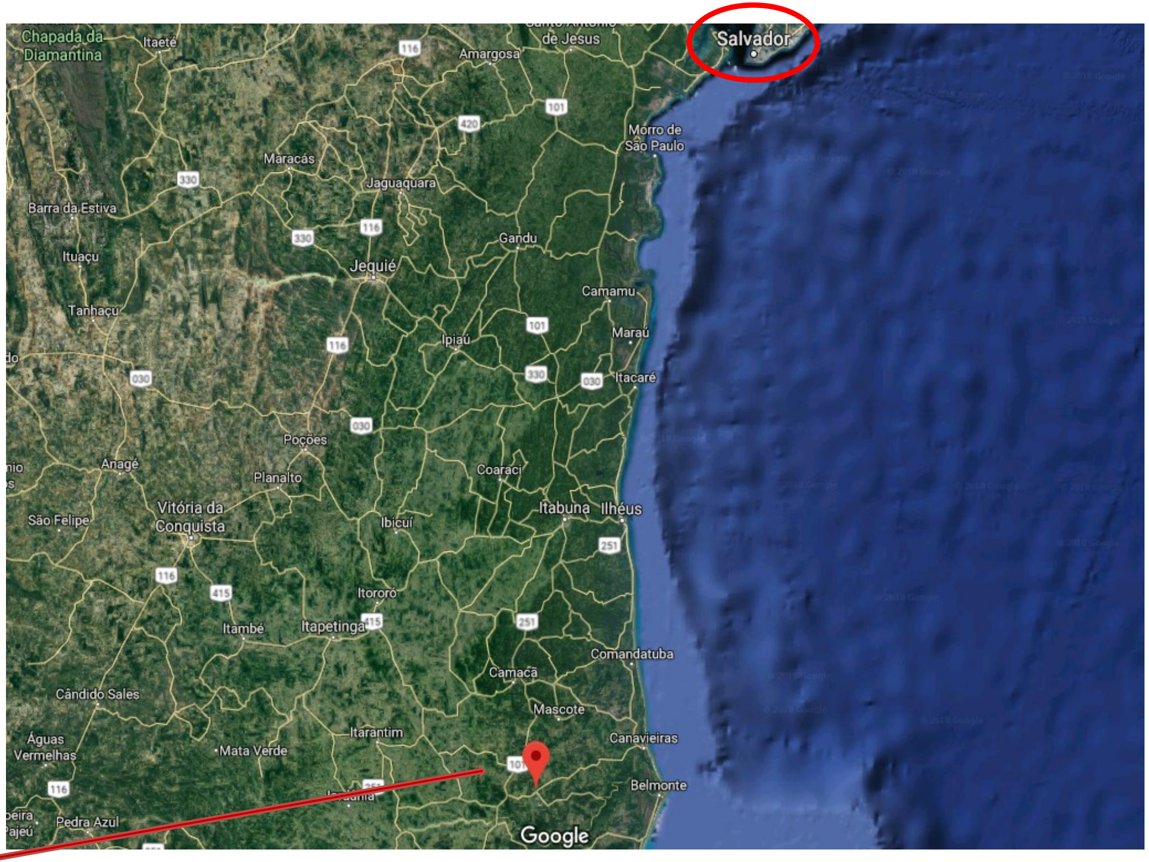


SOLAR ENERGY

SILICA ORE OF SANTA MARIA ETERNA (MUNICIPALITY OF BELMONTE)

- Inorganic average chemical composition of SiO_2 equal to 99.74% with low content of contaminants and metals.
- Part of the Mining Rights leased by Companhia Baiana de Mineração (CBPM) to Vitro do Brasil SA and Portsmouth (Mineração Jundu).
- Extra clear glass patterns.

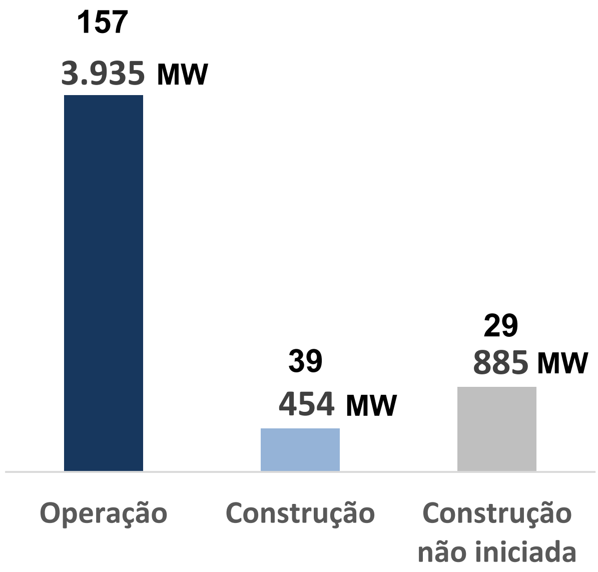


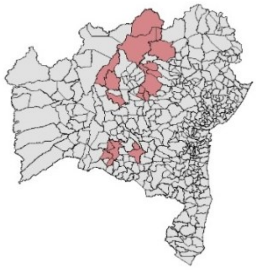


DISTANCES:
- Salvador - 594 km
- Camaçari - 578 km
- Port of Aratu - 569 km

Overview of Centralized Projects

Eolic



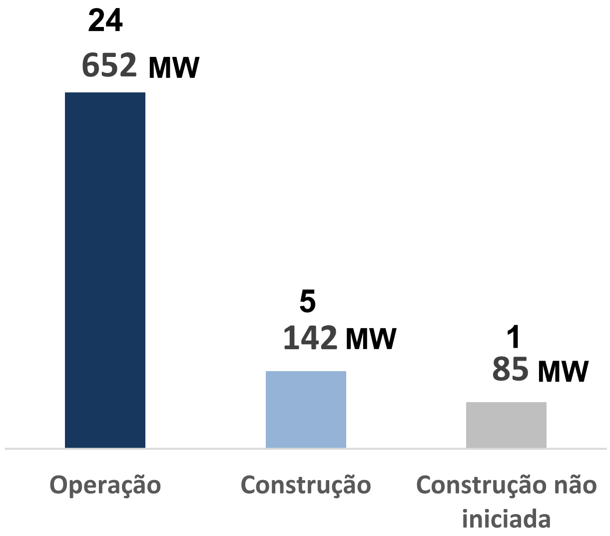


R$ 15,5 bilhões já investidos

R$ 5,7 bilhões a serem investidos

19 municípios beneficiados com projetos em operação

Solar



R$ 3,2 bilhões já investidos

R$ 737 milhões a serem investidos

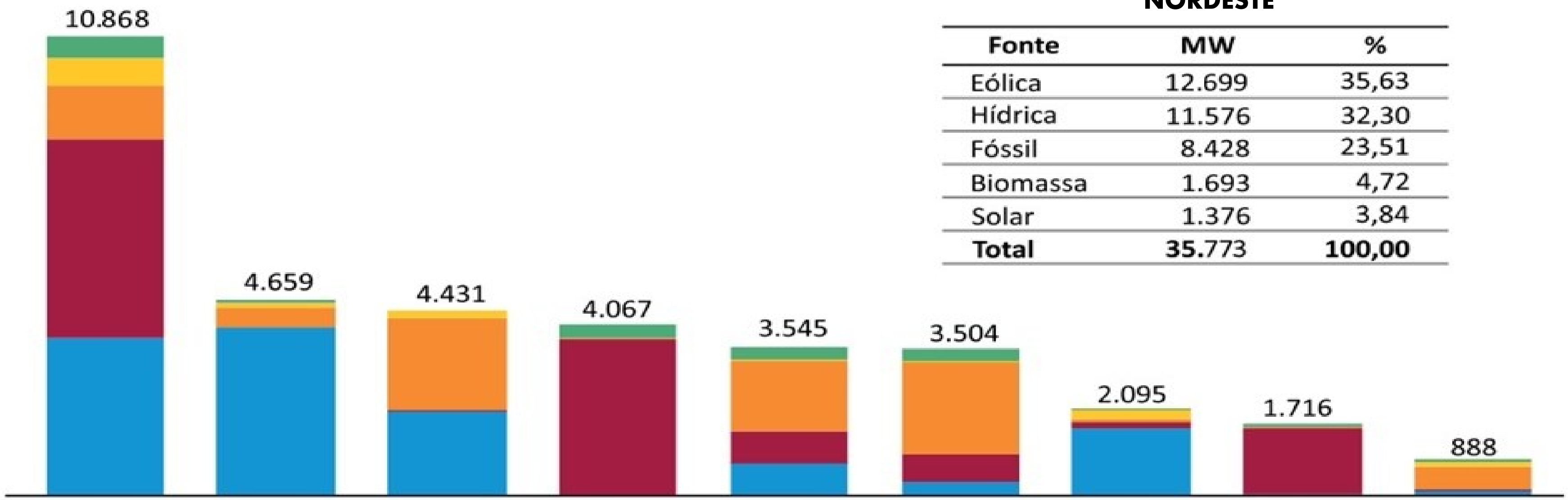
5 municípios beneficiados com projetos em operação

Fonte: ANEEL, SDE. (agosto 2019)

Northeastern States : installed capacity * of power generation by source (MW) 2019

NORDESTE

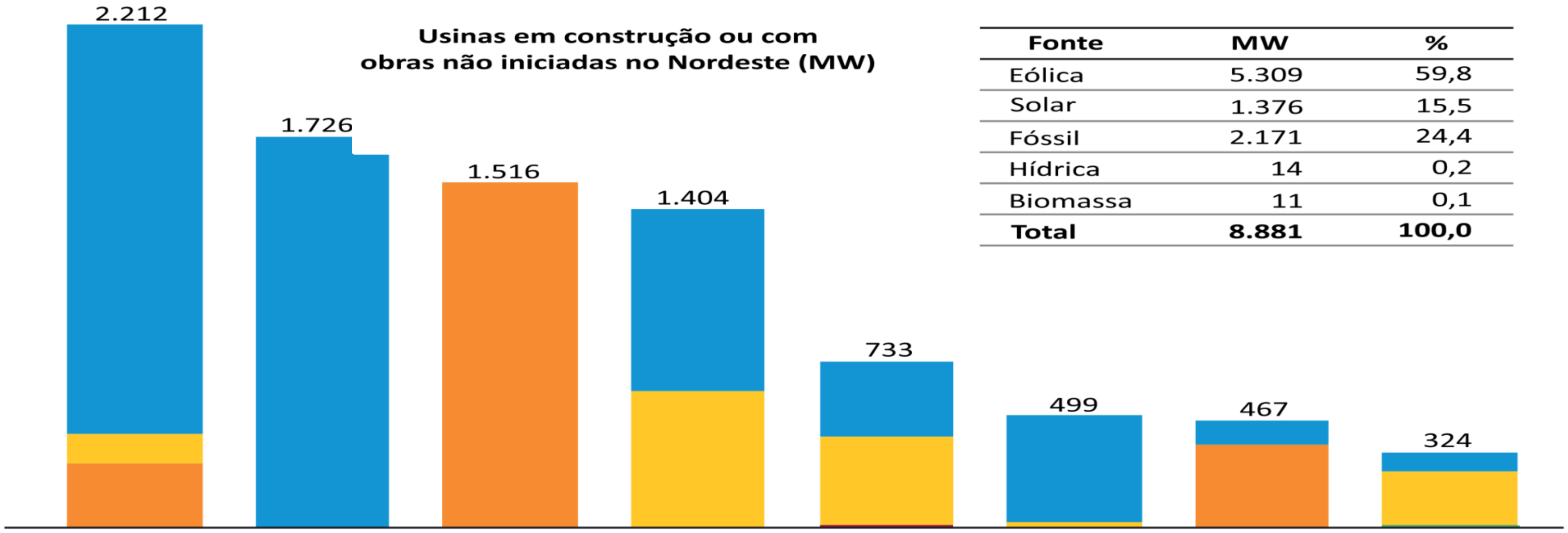
Fonte	MW	%
Eólica	12.699	35,63
Hídrica	11.576	32,30
Fóssil	8.428	23,51
Biomassa	1.693	4,72
Solar	1.376	3,84
Total	**35.773**	**100,00**



ESTADOS	BA	RN	CE	AL	PE	MA	PI	SE	PB
Biomassa	520	57	-	325	316	297	18	60	101
Solar	655	117	216	-	10	0	270	-	108
Fóssil	1.275	465	2.159	17	1.670	2.216	69	40	517
Hídrica	4.718	-	1	3.725	765	662	119	1.581	5
Eólica	3.700	4.020	2.055	-	784	329	1.619	35	157
Total	10.868	4.659	4.431	4.067	3.545	3.504	2.095	1.716	888

Fonte: ANEEL (2019a).
Elaboração: BNB/ETENE/Célula de Estudos e Pesquisas Setoriais.
Notas: * corresponde à potência fiscalizada das usinas pela ANEEL. Na geração solar, não está inclusa a geração distribuída, apenas a centralizada.

Plants under construction or under project, by source and by Northeastern states 2019

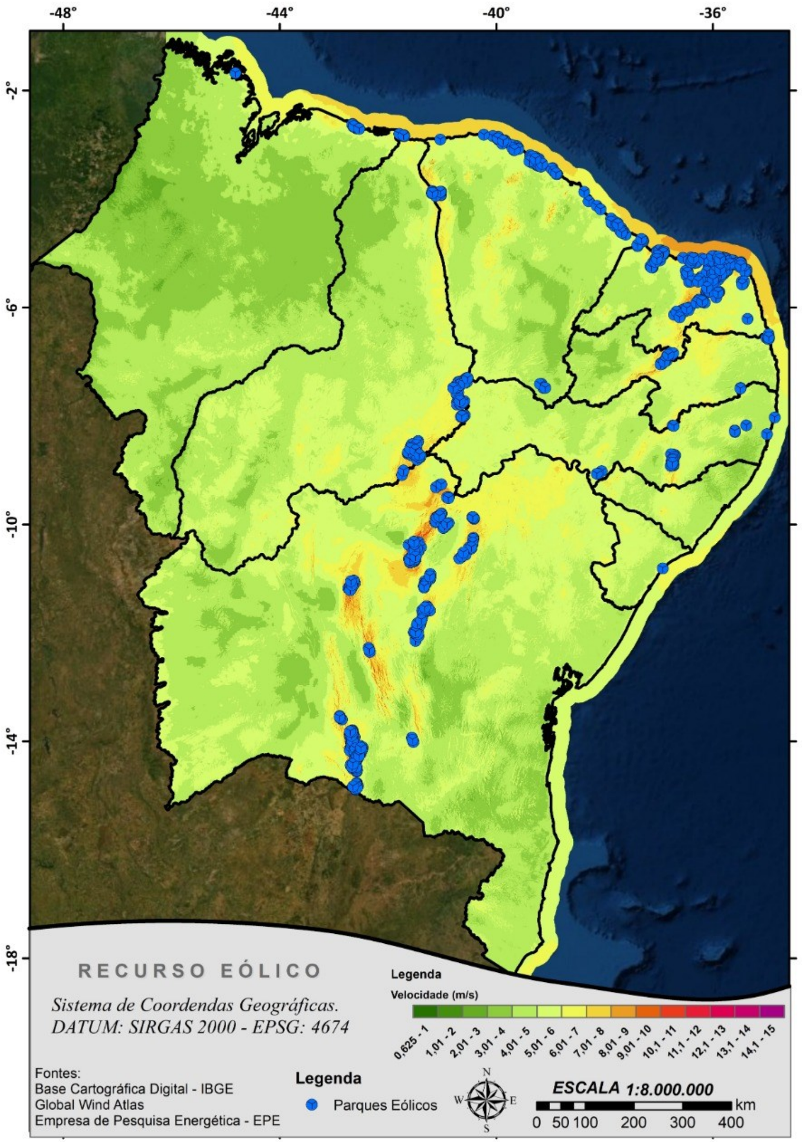


Fonte	MW	%
Eólica	5.309	59,8
Solar	1.376	15,5
Fóssil	2.171	24,4
Hídrica	14	0,2
Biomassa	11	0,1
Total	**8.881**	**100,0**

ESTADOS	BA	RN	SE	PI	CE	PB	MA	PE
Eólica	1.801	1.721	-	801	334	472	98	82
Solar	125	-	-	603	390	27	-	231
Fóssil	286	-	1.516	-	-	-	369	-
Biomassa	-	-	-	-	-	-	-	11
Hídrica	-	5	-	-	9	-	-	-
Total	2.212	1.726	1.516	1.404	733	499	467	324

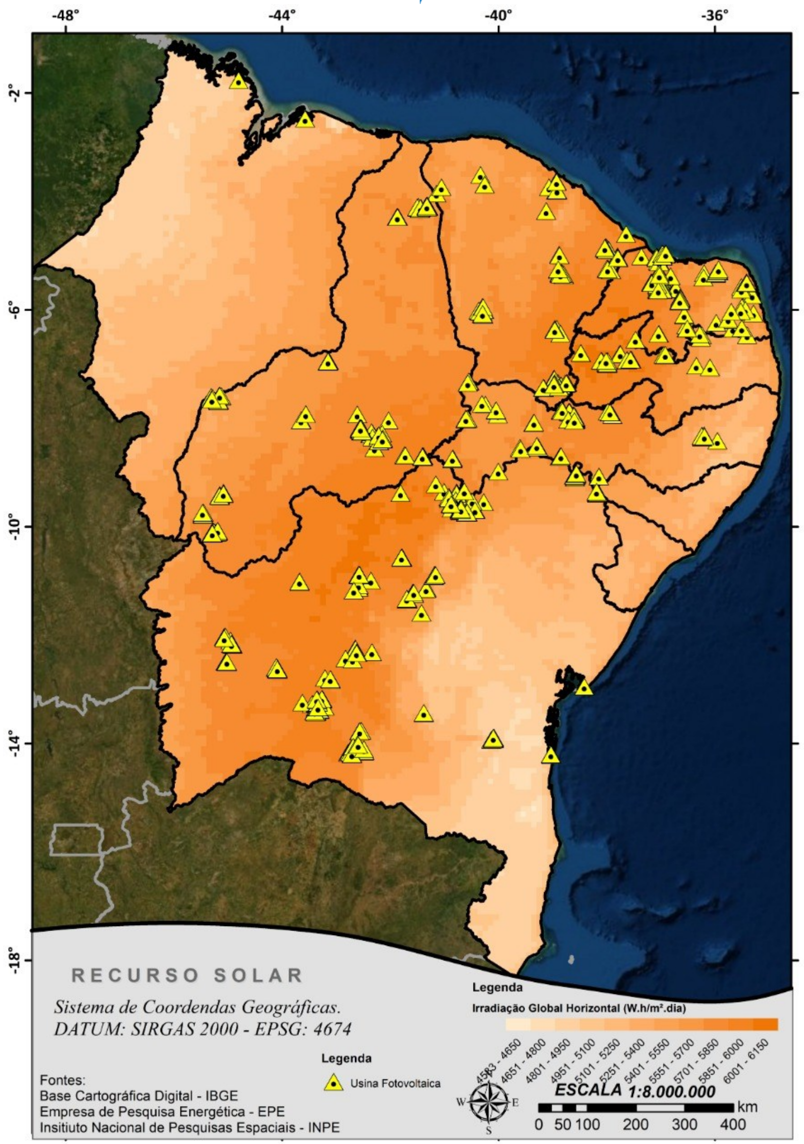
Fonte: ANEEL (2019a). Elaboração: BNB/ETENE/Célula de Estudos e Pesquisas Setoriais.
Nota: parcela hídrica refere-se a PCH.

EOLIC PARKS



SOLAR PARKS

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

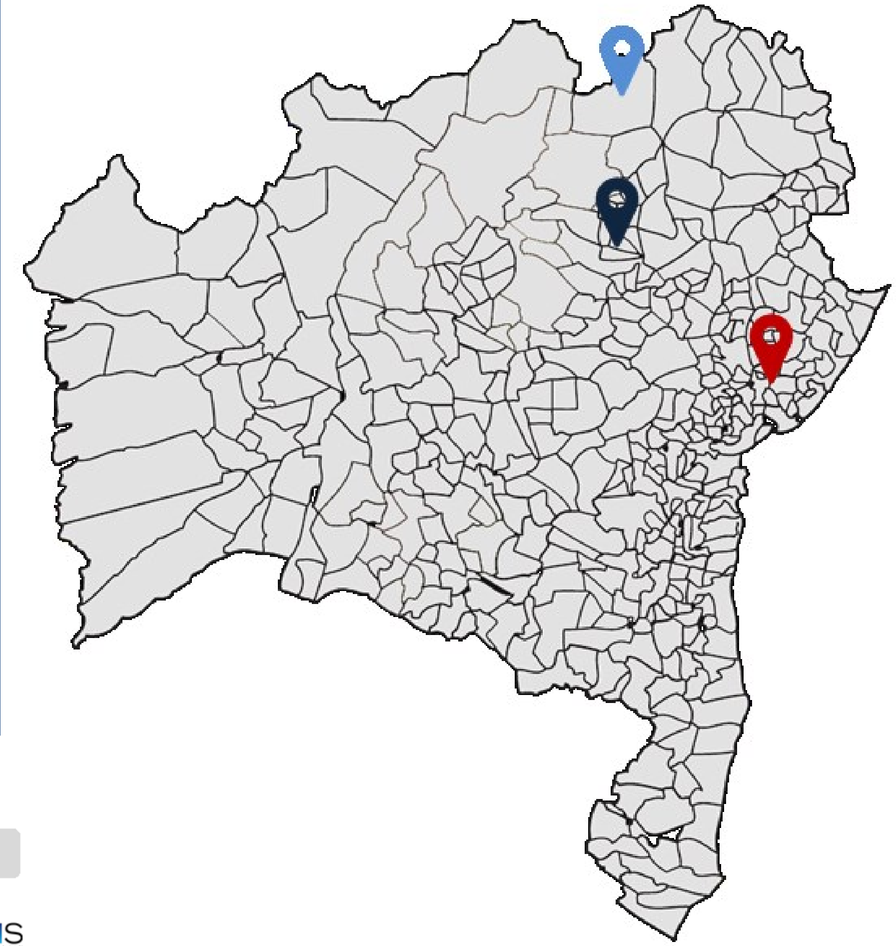


GOVERNO DO ESTADO BAHIA. AQUI É TRABALHO.

Eolic Devices' Manufacturing Industry

Empresa	Produto	Investimento (R$)	Emprego
GE/Alstom	Aerogerador	128 Mi	144
Siemens/ Gamesa	Aerogerador	400 Mi	192
Nordex/ Acciona	Aerogerador	45 Mi	55
Torrebras	Torre Aço	70 Mi	360
Wobben	Torre Concreto	25 Mi	200
Torres Eólicas do Nordeste	Torre Aço	86 Mi	461
Tecsis*	Pás	120 Mi	877

*Em hibernação



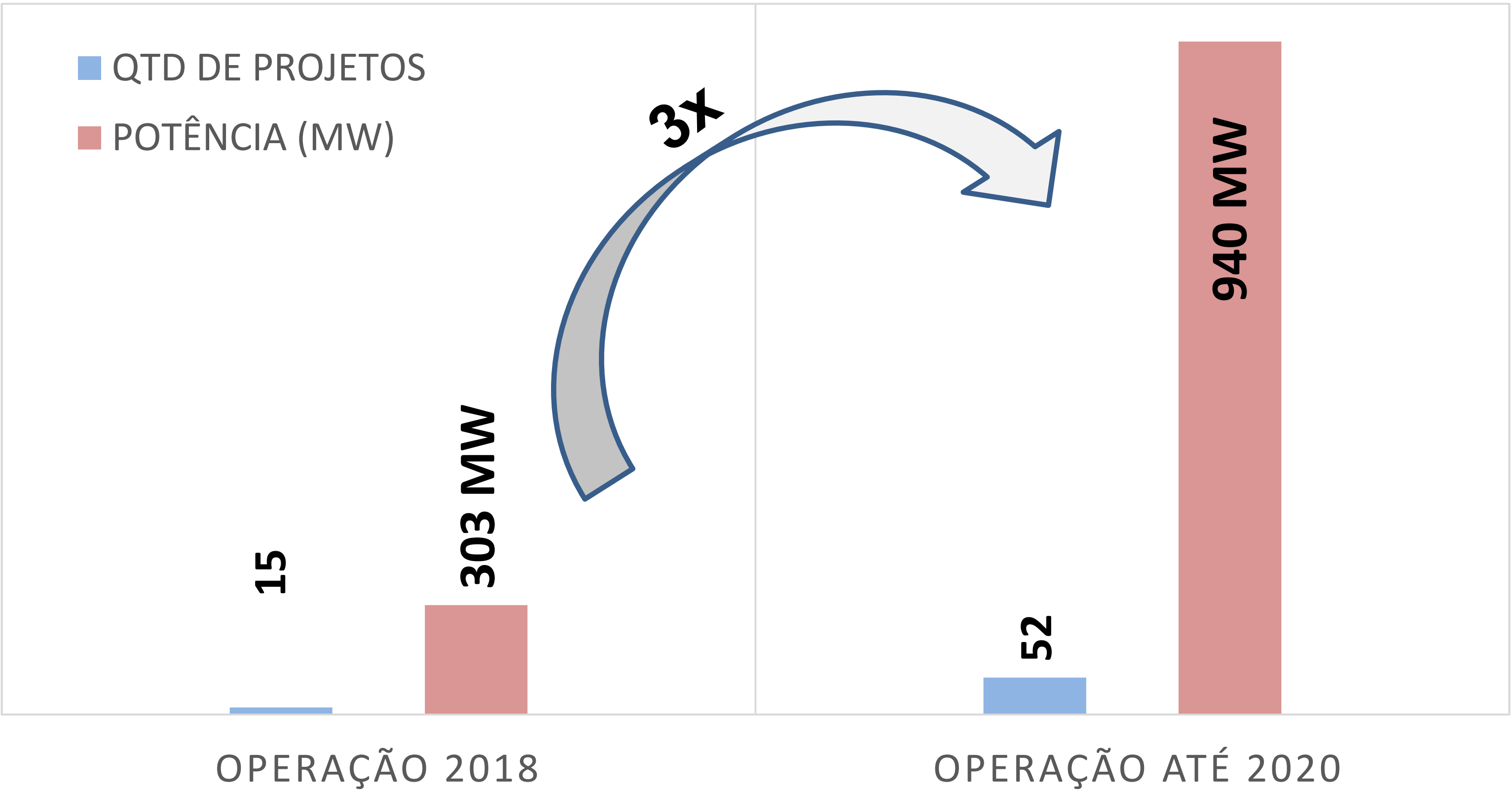
- Juazeiro: Wobben Windpower
- Jacobina: TEN Torres Eólicas do Nordeste
- Simões Filho: Nordex, acciona
- Camaçari: GE Alstom, Tecsis, Siemens Gamesa, Torrebras

Fonte: SDE. (agosto 2019)

WIND ENERGY

FREE MARKET WIND

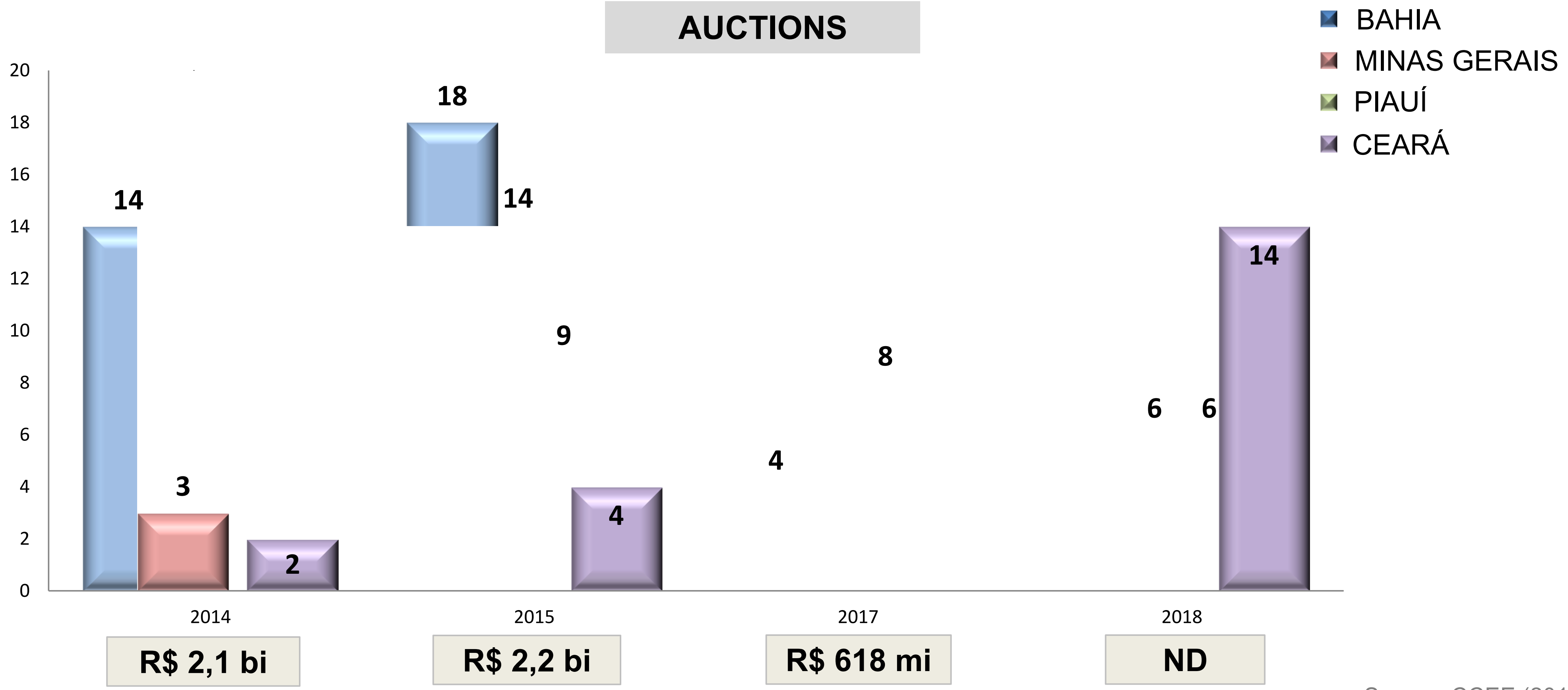
ENERGY GROWTH



Source: ANEEL(2018)

SOLAR ENERGY

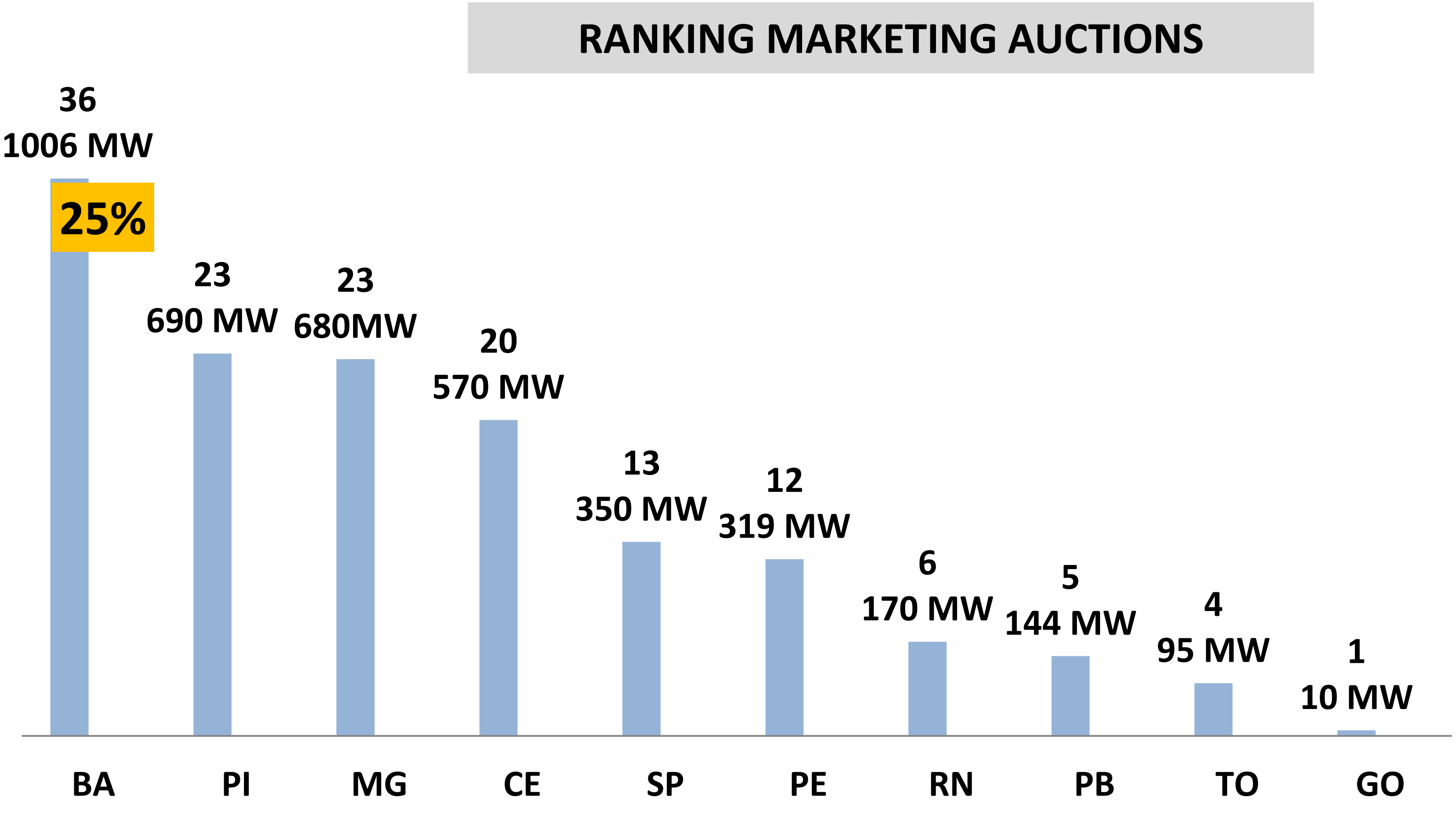
REGULATED MARKET
Comparison between States



Source: CCEE (2018

SOLAR ENERGY

REGULATED MARKET
Comparison between States



Source: CCEE (2018)

SOLAR ENERGY

MAIN MUNICIPALITIES QUARTZ PRODUCERS | BAHIA

• Reserve Measure: 189,551,065 t

QUARTZ OF CASTRO ALVES | CBPM / LAGOA RAW MATERIALS

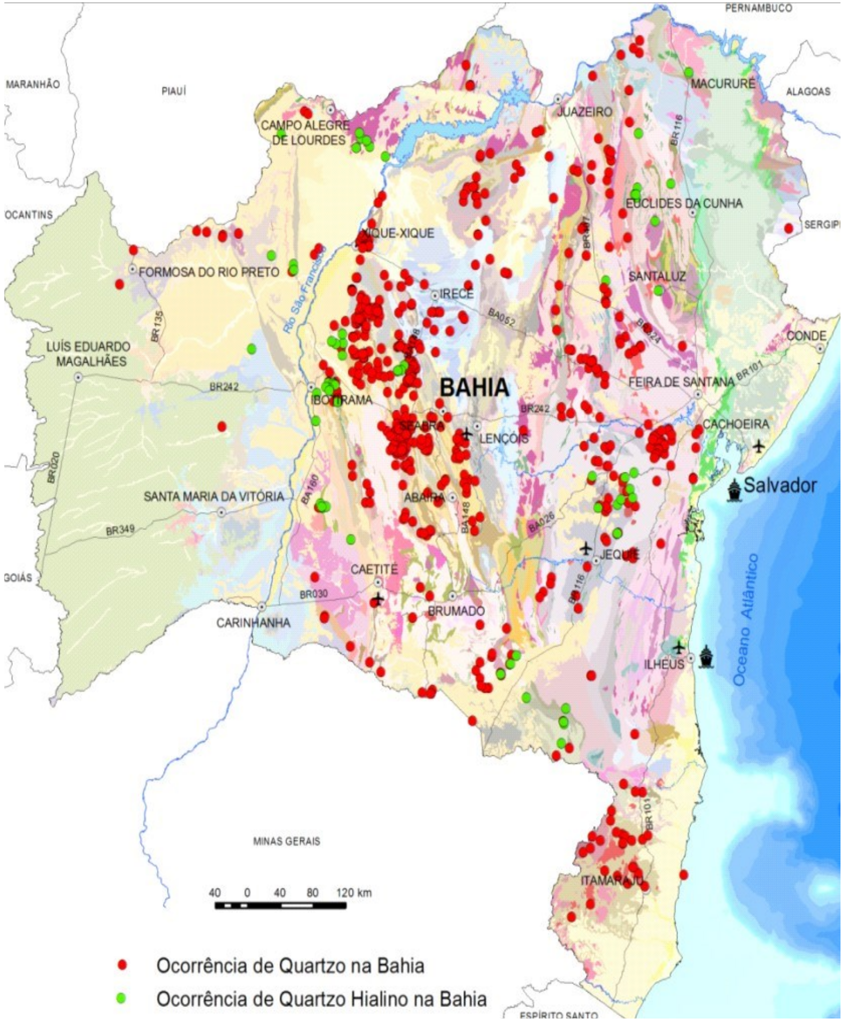
• Quartz: 99% SiO2 (with contaminants)
• Reserve Measure: 230,084 t
• Total Reserve: 15,608,089 t

QUARTZ OF BROTAS OF MACAÚBAS

• Low impurities: Boron and Phosphorus

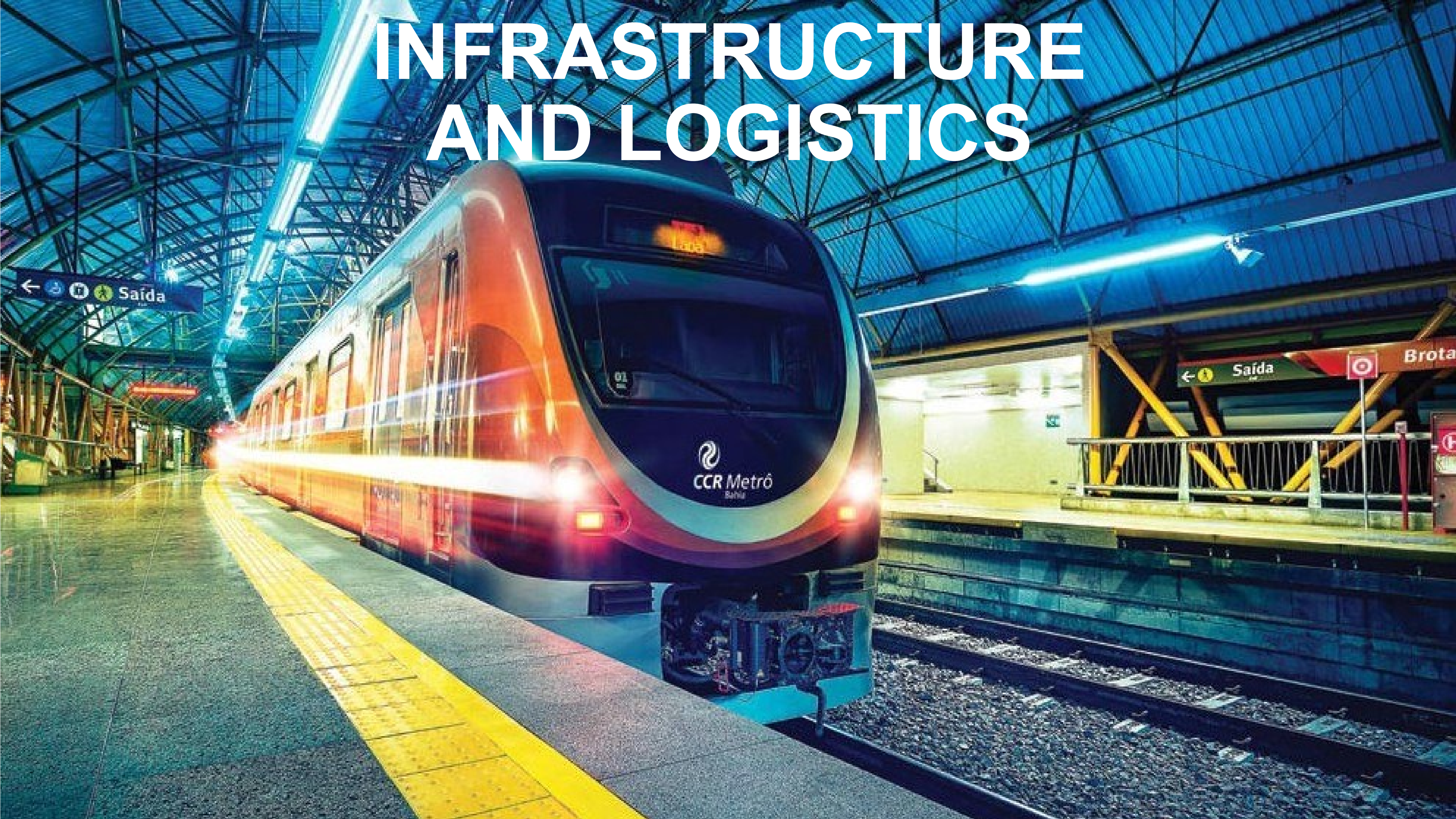
QUARTZ OF TANHAÇU

• Minas Stones project: mining and processing of quartz
• Quartz: 97% to 99% SiO2 (low impurities)
• Production: 480,000 t / year
• Mine life: 60 years
• Operation began in: July / 2017



Sorce: Anuário Mineral Brasileiro – DNPM (2010)

INFRASTRUCTURE AND LOGISTICS



SALVADOR METRO

Investment: **R$ 5,8 billions**, with resources of Bahia State and of Federal Government.

Construction and operation (**PPP**) by CCR Metrô Bahia, concession terms - 30 years.

Start up: June 11th 2014.

Two lines: **42 km** long, **23 stations and 10 bus integration terminals** .

Third biggest subway system in Brazil, after São Paulo and Rio de Janeiro

Daily average of passengers transported: **380.000**

Projected Extensions :

Airport - Lauro de Freitas **4 km**
Pirajá - Águas Claras **5 km -** construction: public works e operação:CCR
Lapa Station - Barra **3 km** (underground line) – under project

Alternatives to the implementation of the line Lapa - Barra:

Amendment to the PPP contract to building and operation by CCR.
Amendment to the PPP concession contract, only for operation.
It is economically unfeasible to have a PPP just for the construction and operation of this line.
Yet condering investments in infrastructure, signaling, control and in trains.

LIGHT VEHICLES ON RAILS - LVR ROUTES:

PROJECTS

- Implementation of Transportation System which will link Comercio to Station Sao Luiz.
- Interconnection with Santa Luzia Station, allowing integration with the Metro.

Investment Planned

- US $ 460 million

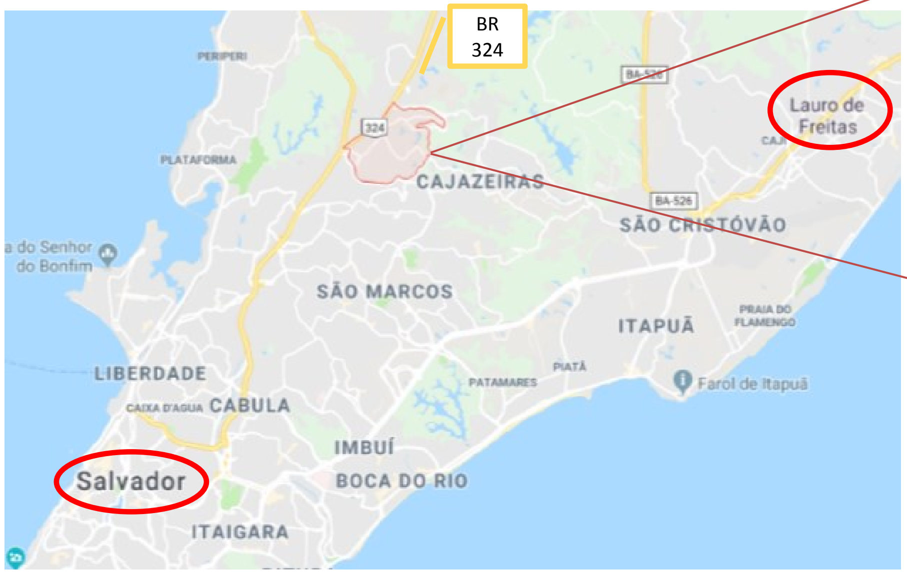
URBAN MOBILITY

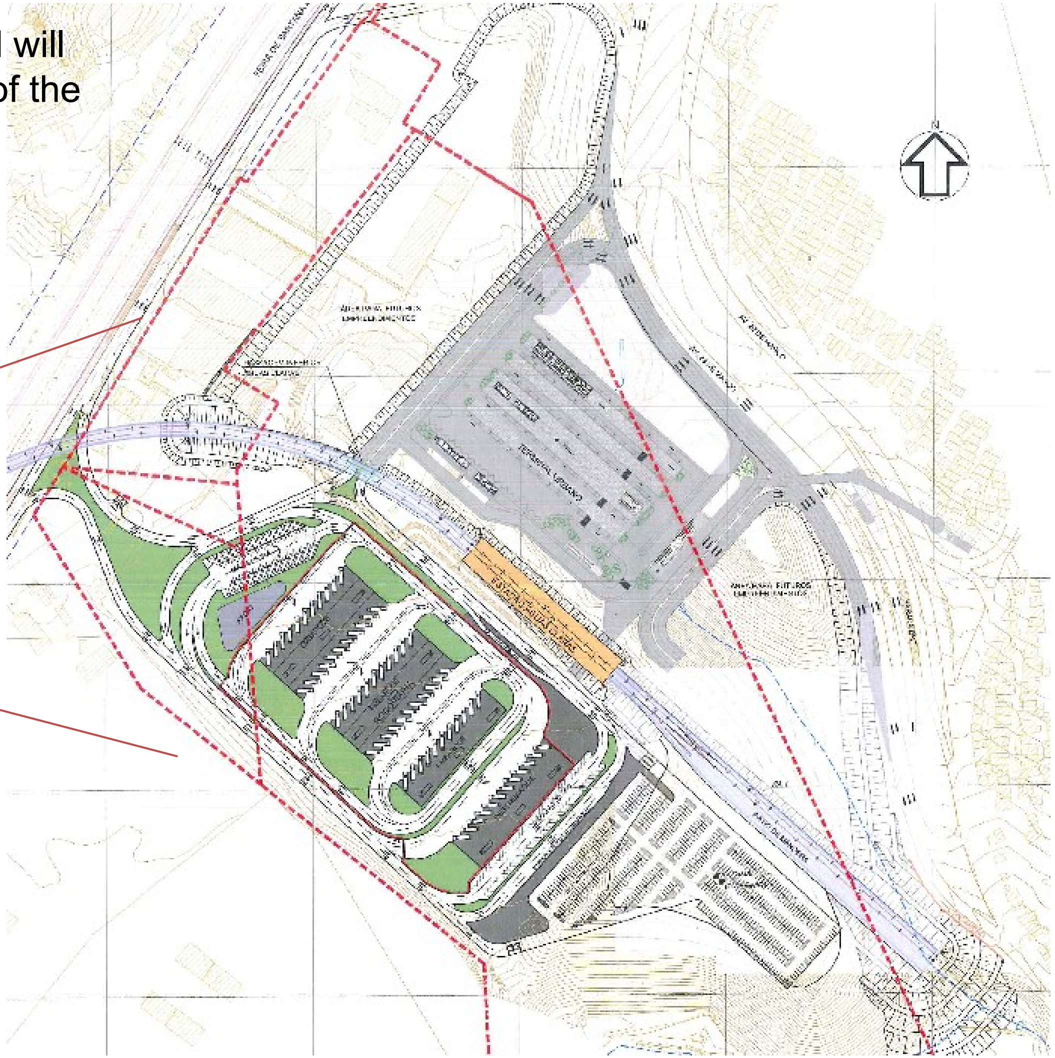
NEW ROAD TERMINAL

It will be built in the BR-324 (Águas Claras neighborhood) and will connect with Section 3 of the subway, an extension of Line 1 of the modal.

- Total Area: 263,000m²
- Average users benefited: 39,000 / day
- Planned Investment: R $ 120 million

Direct Access to the new BRT corridor and the Subway.





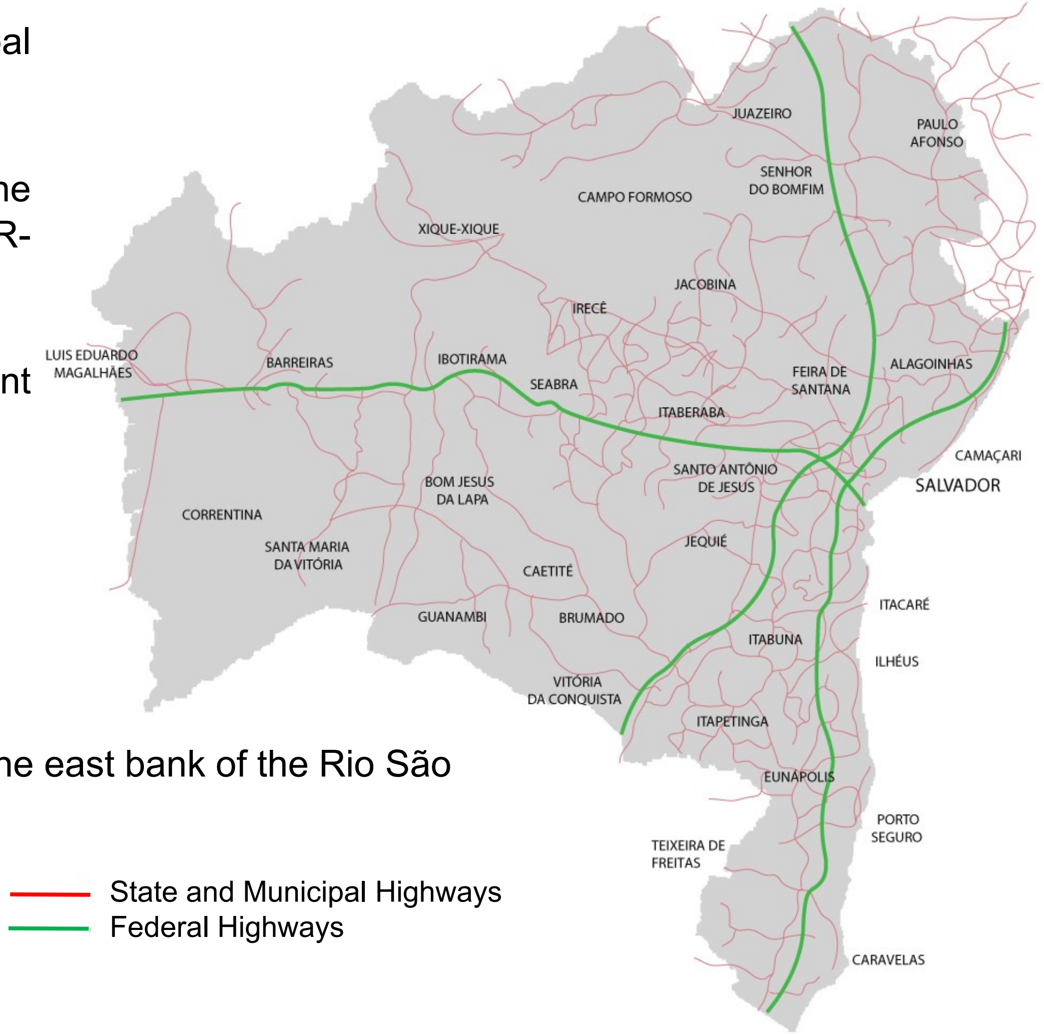
INFRASTRUCTURE | HIGHWAY

- Extension of 124,545 km including federal, state and municipal highways.

- Structured on four main axes, allowing full integration of the state with all regions of Brazil and with Mercosur: BR-116, BR-101, BR-324, BR-407 and BR-242.

- Bahia has other federal and state roads, in permanent modernization and expansion processes.

- The BA-052 System is composed of four state roads (BA-052, BA-148, BA-534, BA-160 and BA-432), totaling approximately 686.7 km in length..



FLUVIAL CONNECTION

BA-160 currently connects the municipality of Xique-Xique to the east bank of the Rio São Francisco, in the municipality of Barra, by means of rafts.

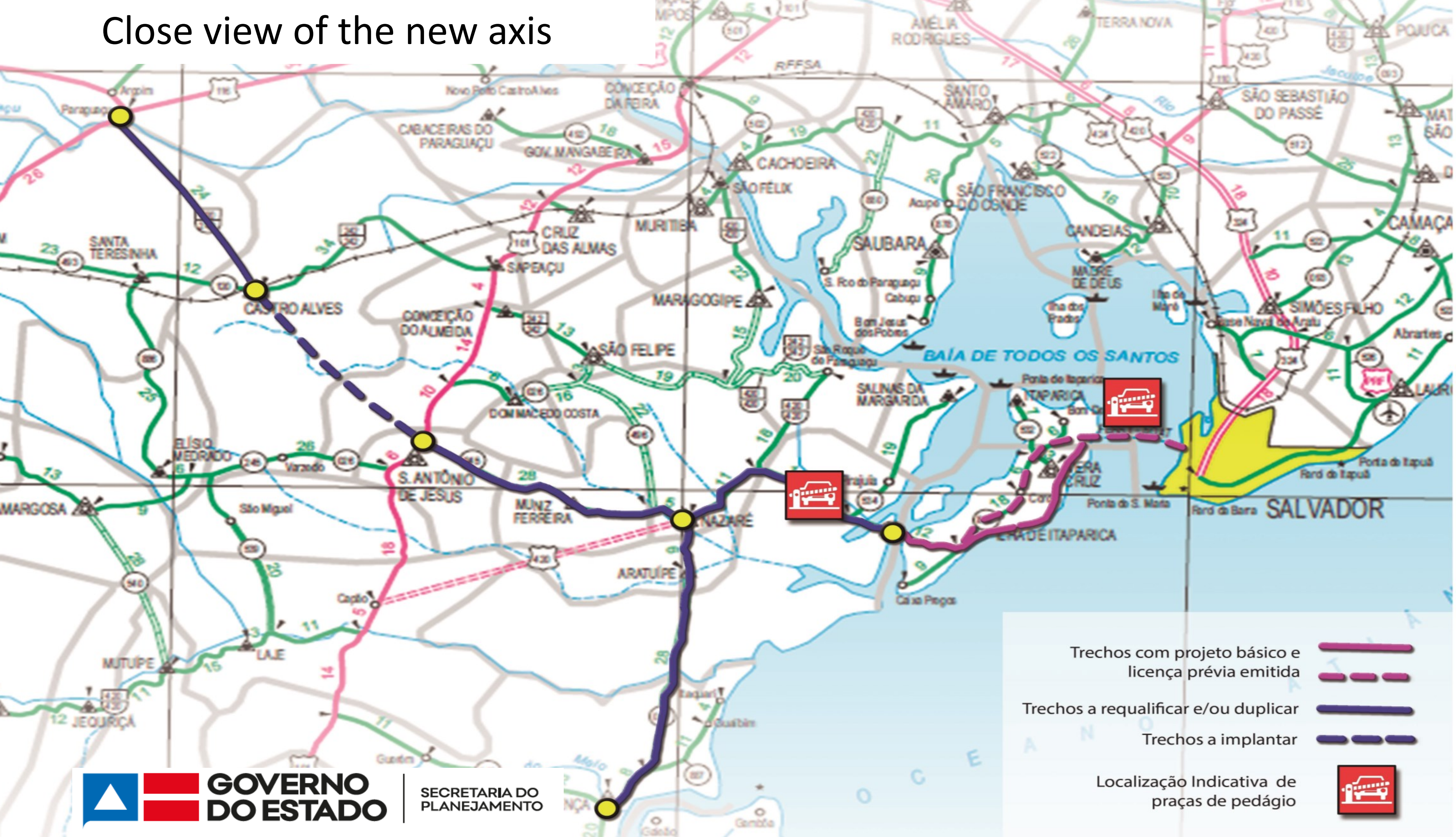
SALVADOR - ITAPARICA BRIDGE

IN BIDDING

SALVADOR - ITAPARICA ISLAND BRIDGE
Regional Development Plan

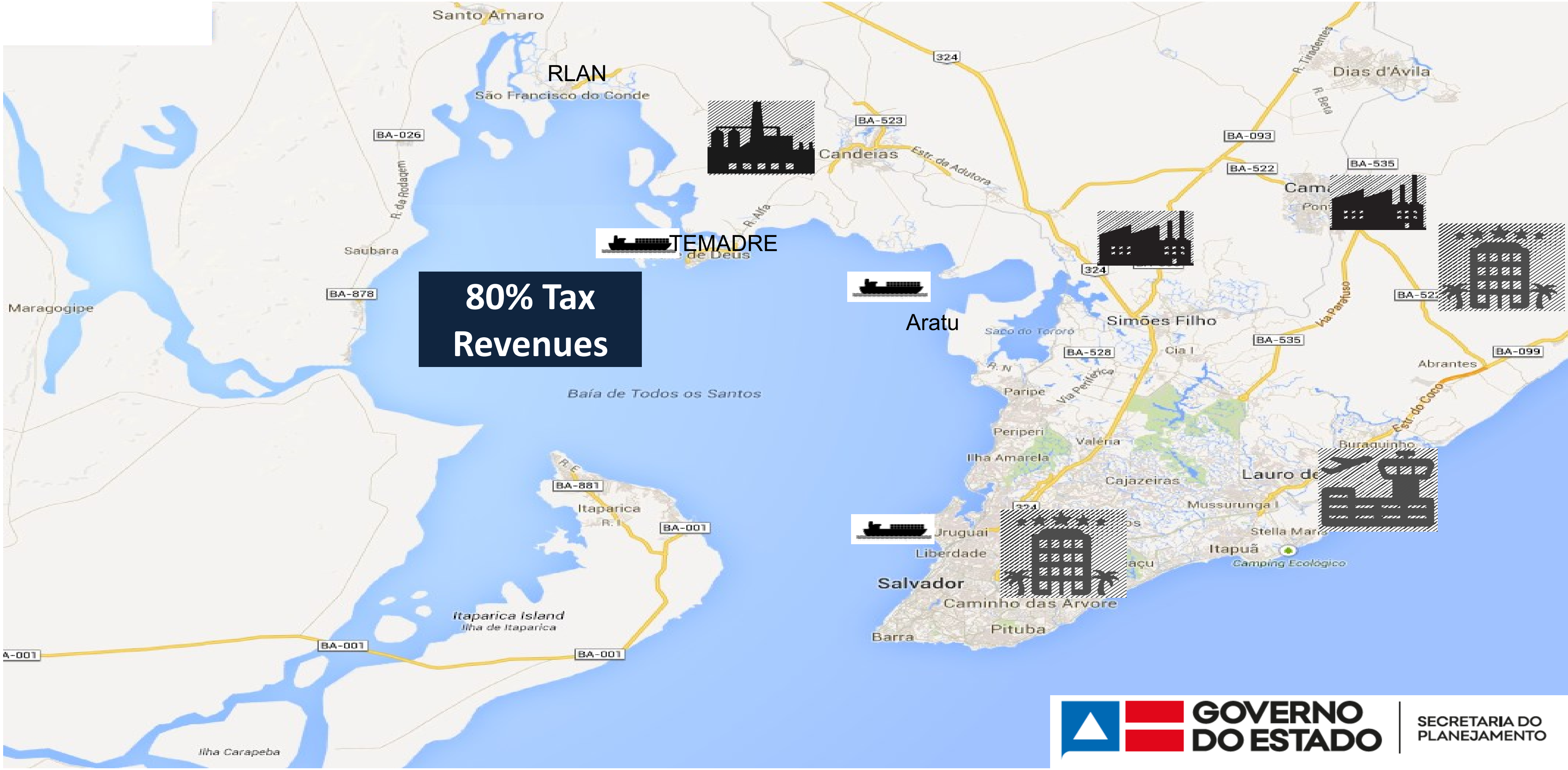
GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

Close view of the new axis



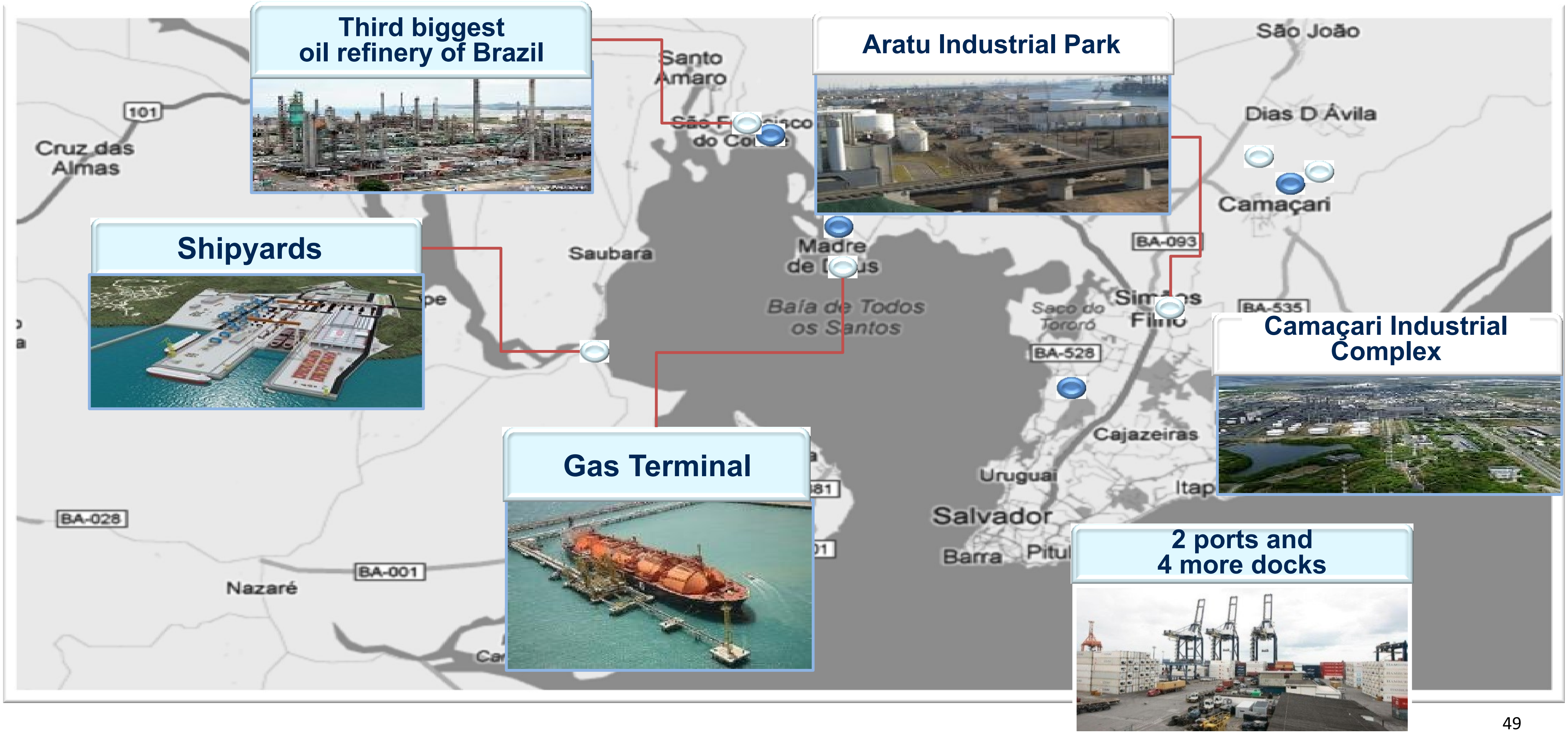
GOVERNO DO ESTADO
SECRETARIA DO PLANEJAMENTO

Bay area urban and economic concentration



GOVERNO DO ESTADO
SECRETARIA DO PLANEJAMENTO

Greater Economic Density within the North/Northeastern Region



SALVADOR - ITAPARICA ISLAND BRIDGE

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

Economy of more than 100 km in displacements . Examples:

Salvador - Santo Antônio de Jesus - 100km

Salvador - Valença - 144km

Salvador - Ilhéus - 142km

SSA - Belmonte, com implantação de Canavieiras - Belmonte - 283 km

SALVADOR - ITAPARICA BRIDGE

Western Road System: stretches between Salvador and Itaparica

Source: Coord. Sistema Viário – SEPLAN (2019)

SALVADOR - ITAPARICA BRIDGE

Western Road System: stretches between Salvador and Itaparica

Source: Coord. Sistema Viário – SEPLAN (2019)

SALVADOR - ITAPARICA BRIDGE

EXTENSION:

- The Bridge of about 12.3 km in length has a cable-stayed bridge of 1,000 m in length and stretches of approach spans of 7.2 km from the side of Salvador and 4.1 km from the side of the Island of Itaparica;

- The Salvador Highway System is about 4.2 km long, including a set of 2.1 km viaducts and 2 tunnels with extensions of about 160 and 220 m.

- The Itaparica Road System is about 47.5 km long and comprises the arrival area from the Salvador Bridge - Itaparica Island to the Funil Bridge, through the requalification and duplication of the current BA-001 highway and a new projected highway, called Variant.

TRACKS OF THE BRIDGE:

- Streches of Approach spans on the Itaparica side;
- Cable-stayed stretch;
- Sections of Approach spans on the Salvador side.

INFRASTRUCTURE | PORTS

1 **PORT OF MALHADO – ILHÉUS Capacity:**
1 million t / year Main grain exporter from Bahia.

2 **PORT OF SALVADOR Capacity:**
5 million t / year Containers, general cargo, wheat, pulp, reception of maritime cruises.

3 **PORT OF ARATU Capacity:**
6 million t / year 4 terminals. Liquid, gaseous and solid products. It simultaneously operates ores and petrochemicals.

Source: Codeba (2017)

PORTS

TWO TERMINALS PROJECT IN THE SOUTH PORT FOR MINING AND AGRICULTURAL

- Location: District of Aritaguá, north coast of Ilhéus.
- Total investment: US $ 757.57 million
- Total land area: 1,860 hectares.
- Maritime area: 3.5 km *offshore* bridge and 01 cradle of iron ore and agricultural granaries.

- Vegetation Suppression Authorization (ASV).

- Expected timeline:

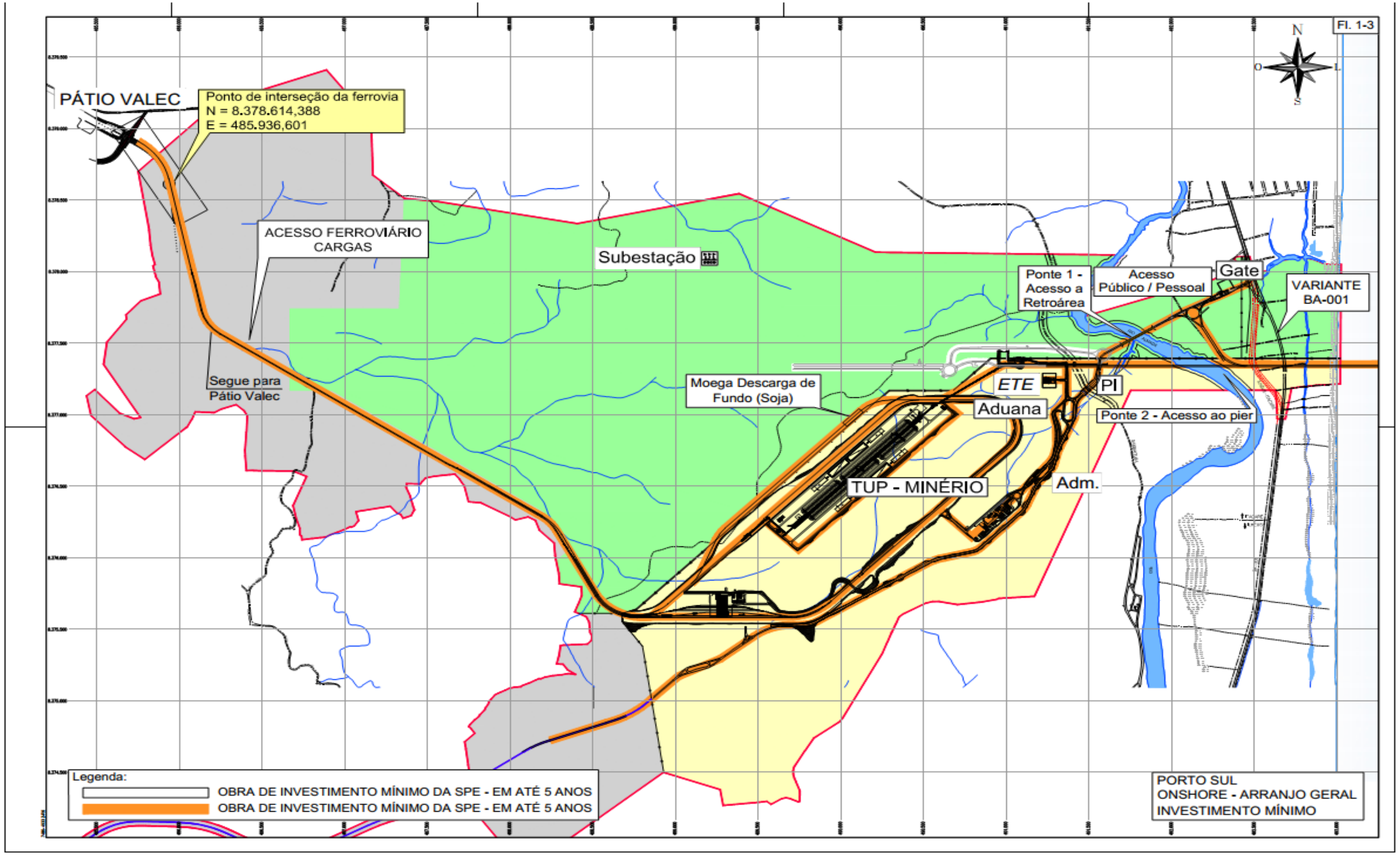
2019	Initial activities of the project (access roads by BA 001 and BA 262, construction of the bridge over Rio Almada, etc.)
2020 - 2023	Construction
2023	Operation

Average dolar = R$ 3,30

PORTS

ONSHORE INSTALLATIONS

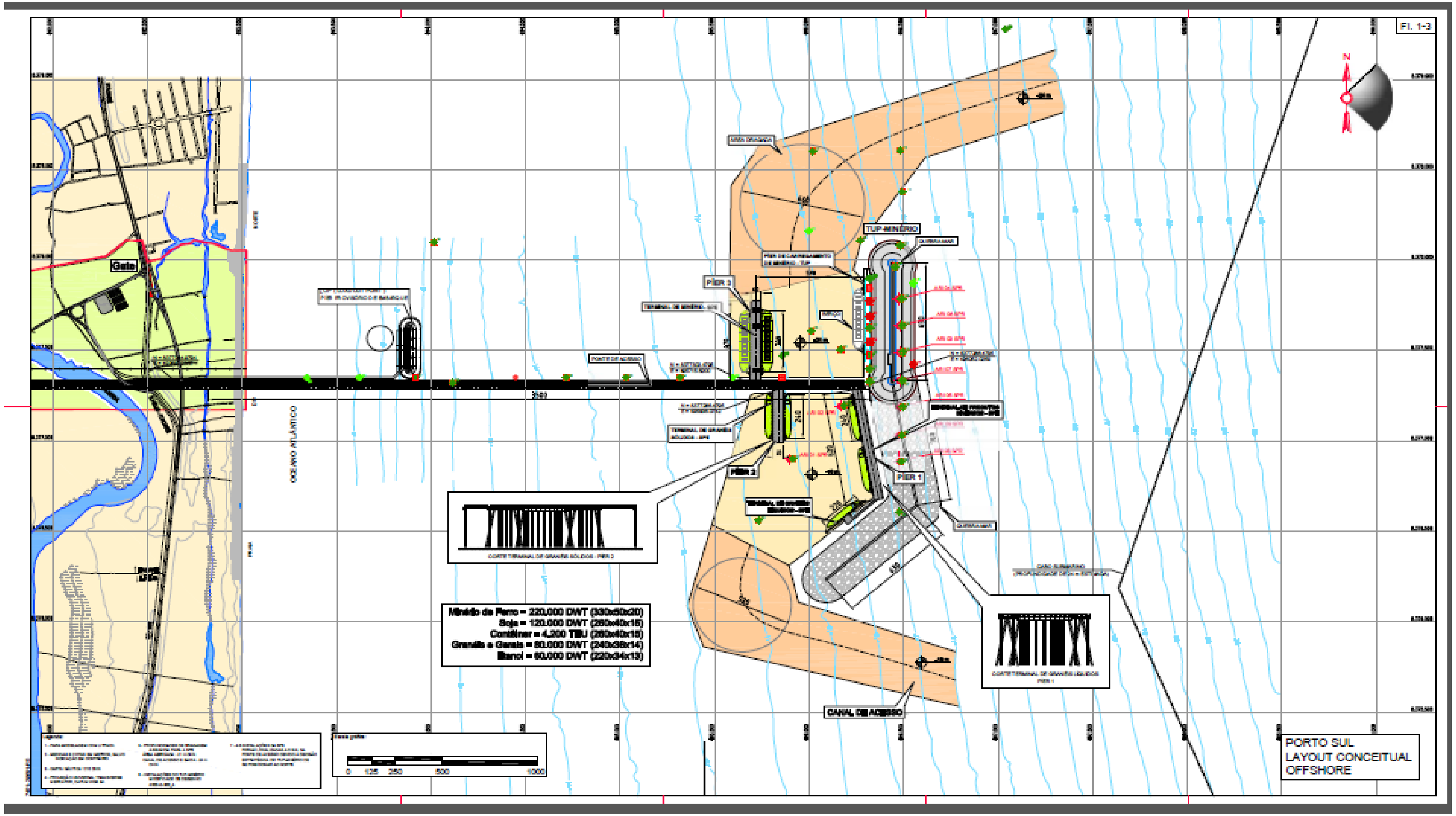
Final design (yellow area) / expansion area (green and gray)



PORTS

OFFSHORE INSTALLATIONS

Final project



NEW PORT OF ARATU

PROJECT FOR IMPLEMENTATION OF PRIVATE USE TERMINALS - COTEGIPE CHANNEL

- Consolidated area for the implementation of productive units
- Specific Purpose Society (SPE) modality)

- Purpose: implementation of logistic projects with storage area and retro-area.
- Area for general cargo, containers, vehicles, liquid and solid granules (minerals)

NAVAL INDUSTRY

ENSEADA | TERMINAL OF PRIVATE USE MARAGOGIPE

Enseada is Bahia's largest private investment in recent years, and it has consolidated all the knowledge and expertise of its shareholders in the shipbuilding and offshore segment. The shipyard was designed by Kawasaki Heavy Industries aiming to have productivity and quality to compete in the international market, and is located where the waters of Bahia de Todos os Santos and Rio Paraguaçu meet.

NAVAL INDUSTRY

GOVERNO DO ESTADO BAHIA, AQUI É TRABALHO.

STRATEGIC LOCATION

48 km .... Salvador

38 km .... Base Naval de Aratu

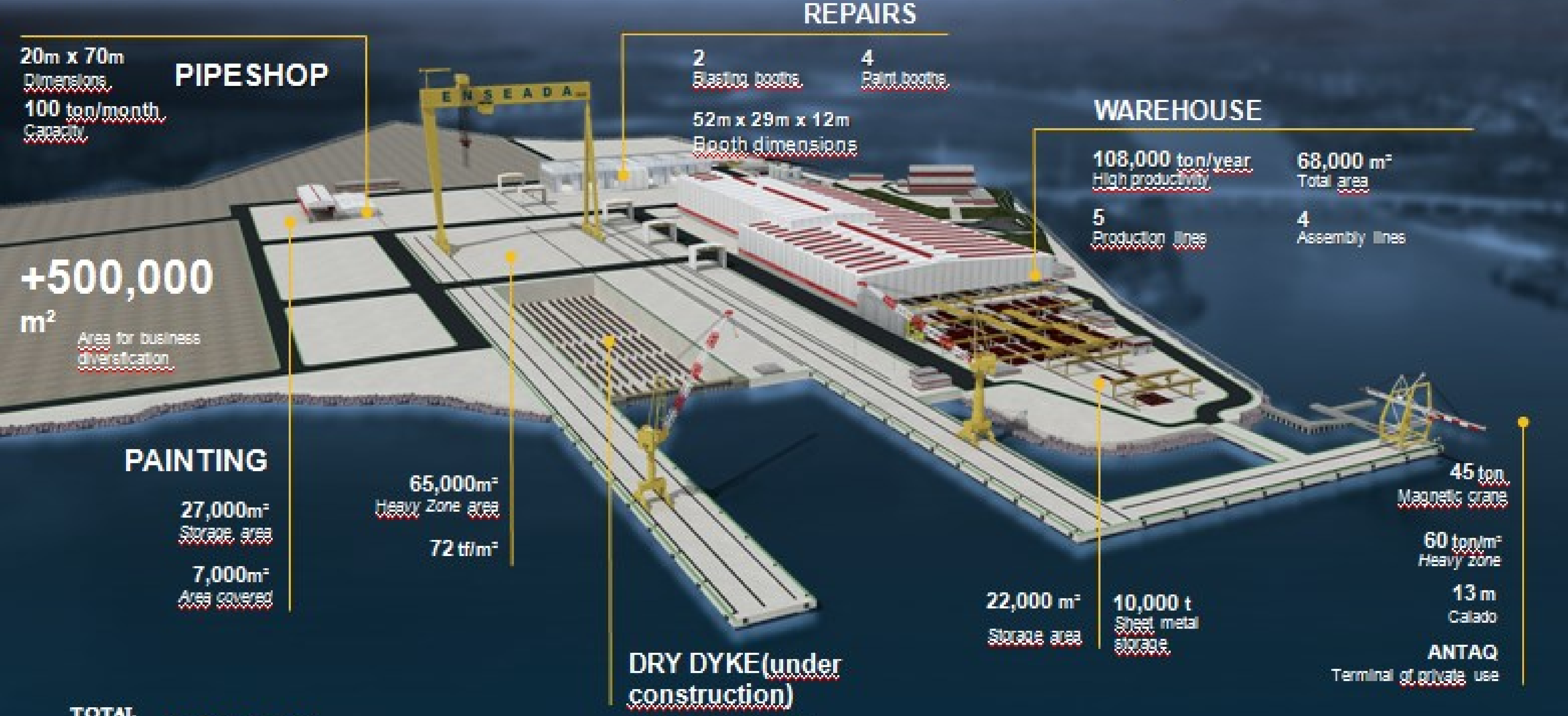
SHELTERED WATERS

DEEP WATERS

NO ATTRACTION COMPETITION

NAVAL INDUSTRY

ENSEADA | OUR SHIPYARD



TOTAL AREA **1,600,000 m²**

Equivalent to two hundred and tem soccer pitches.

GOVERNO DO ESTADO | BAHIA, AQUI É TRABALHO.

ENSEADA | OTHER OPPORTUNITIES

Enseada is more than a shipyard, it is an industrial-logistical hub that will work by sharing the shipyard's infrastructure with other businesses being deployed. Among the main businesses are:

LIQUID TERMINAL

Terminal with capacity to store more than 100 thousand m³ of derivatives with privileged road access. Possibility of blending in loco.

SPOOLBA SE

40,000m² shore-based facility to manufacture continuous pipe laying for offshore oil and gas production up to 1,000m length.

SOLID TERMINAL

Recebimento, armazenagem e distribuição de cargas a granel com área exclusiva dedicada.

GENERAL CARGO

Carregamento, descarregamento e armazenagem de cargas gerais de grandes dimensões, como módulos industriais e equipamentos de energia eólica.

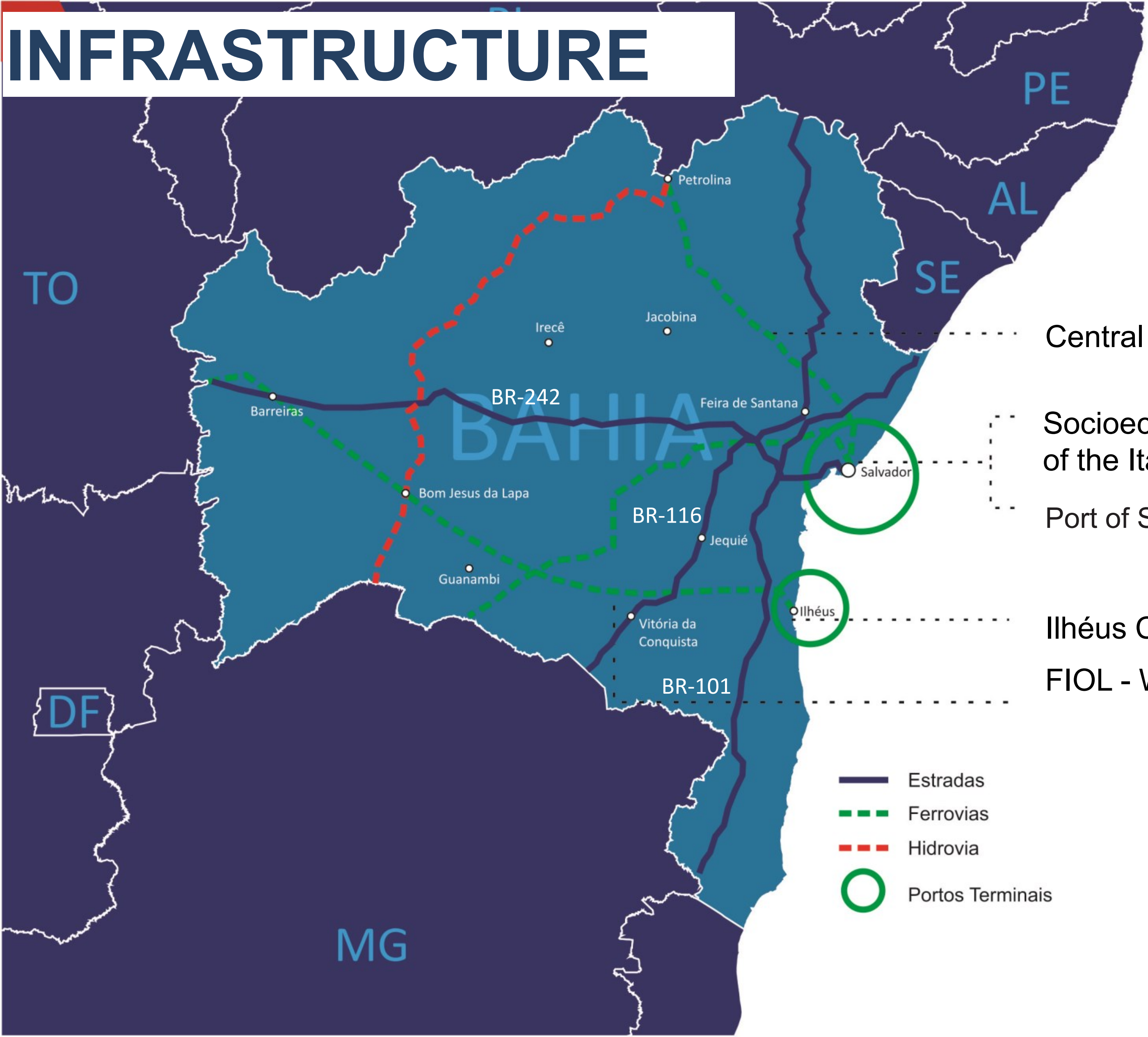
TERMINAL OF PRIVATE USE

+500.000 m² available

4 BERTHS FOR LOADING AND UNLOADING

INFRASTRUCTURE

GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.



Central Atlantic Railway (FCA)

Socioeconomic development of the influence area of the Itaparica bridge - Salvador

Port of Salvador

Ilhéus Complex - South Port

FIOL - West-East Integration Railway

INFRASTRUCTURE | RAILROAD

CENTRO-ATLÂNTICA RAILROAD - FCA

Main axis of railway connection between Bahia and the Northeast, Southeast and Center-West regions and with access to the main ports located in the States of Bahia, São Paulo and Rio de Janeiro.

It also connects with other railroads such as MRS, Transnordestina and Ferroban, making it possible to connect with the largest consumer centers in Brazil and Mercosur.

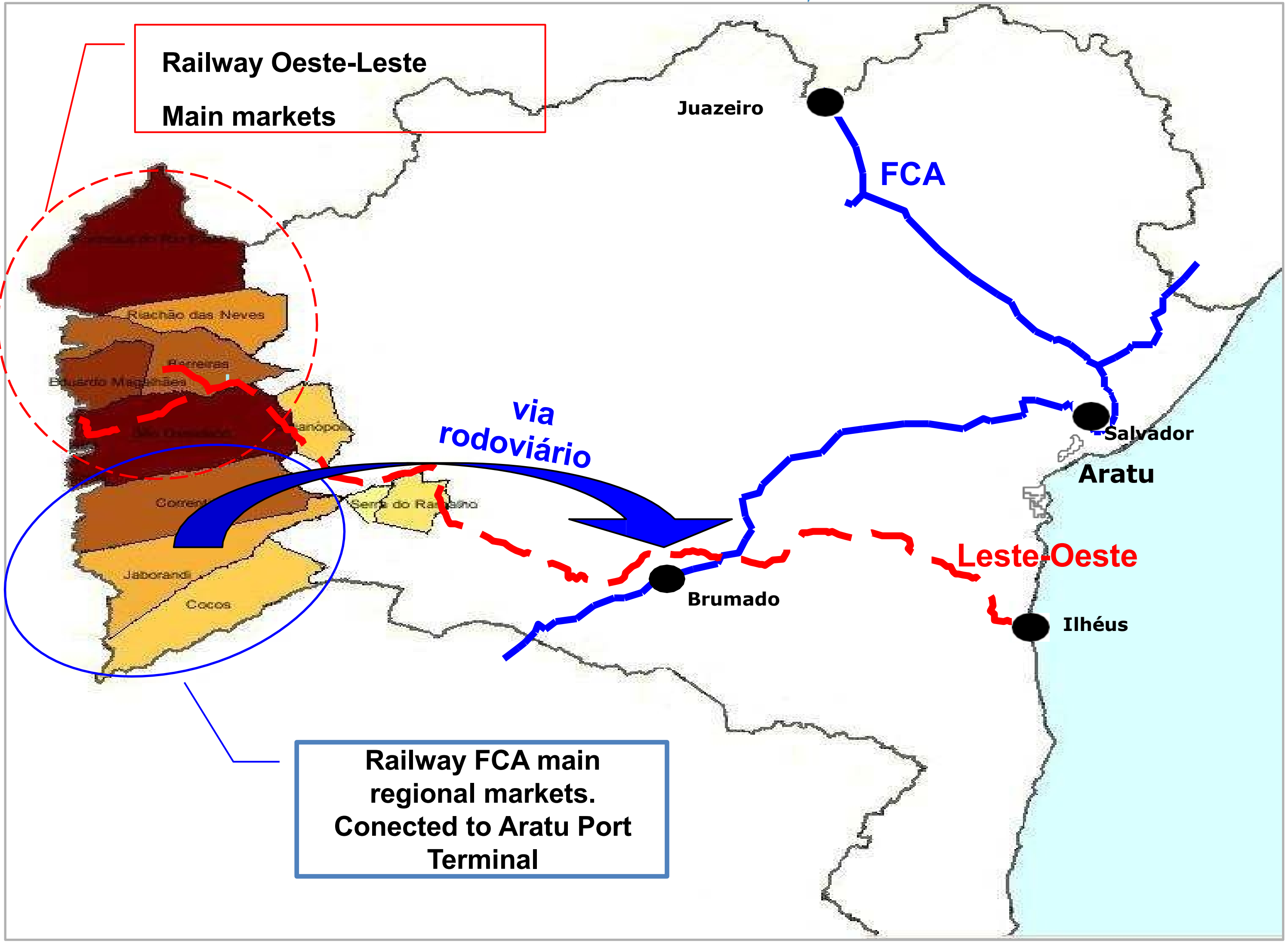
GOVERNO DO ESTADO BAHIA. AQUI É TRABALHO.

Oeste – Leste Railway

Multimoldal Transports Corridor

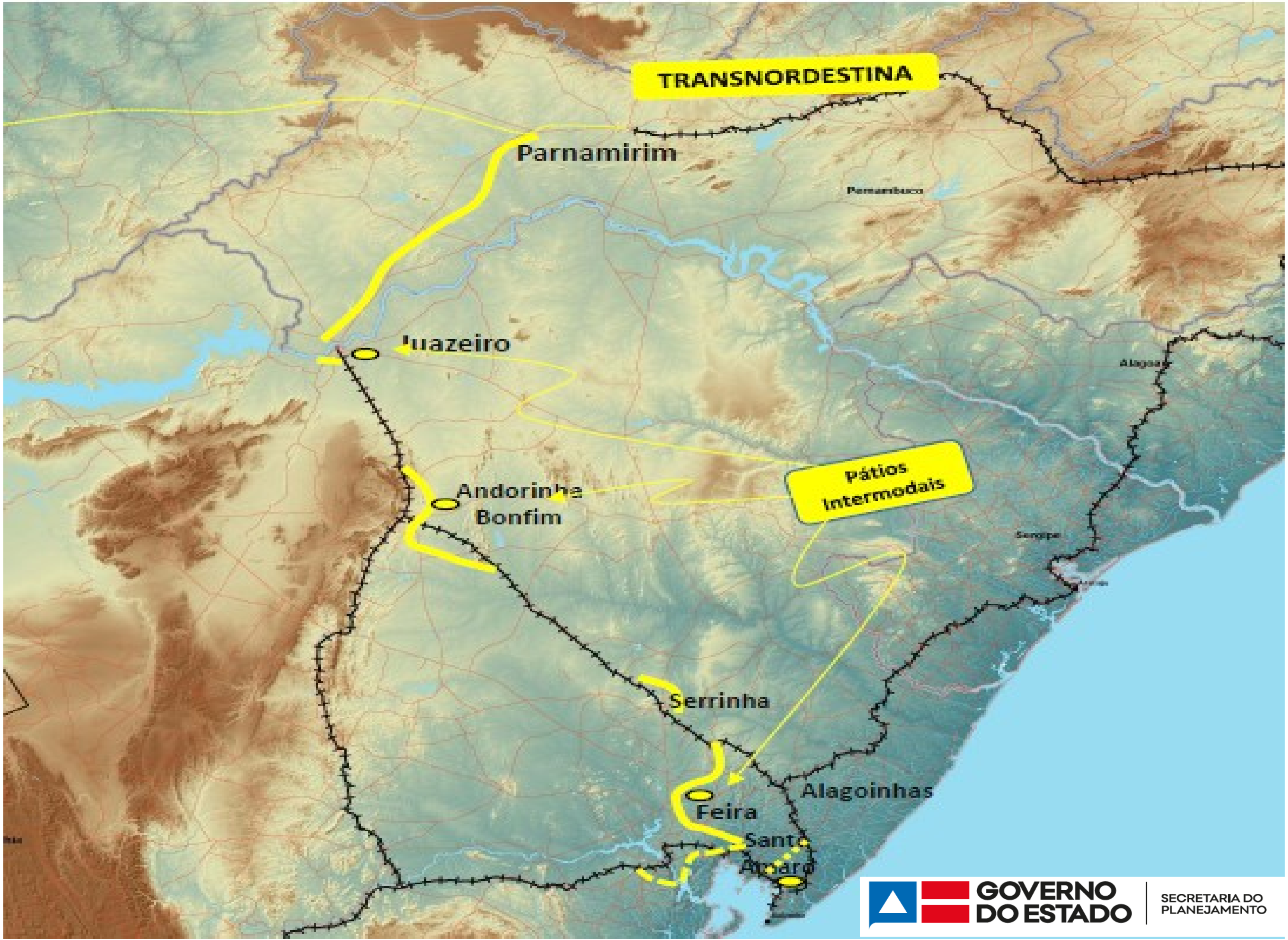
Legenda				
Variável = Área plantada (Hectares)				
Lavoura temporária = Soja (em grão)				
Ano = 2008				
Nível Territorial = Município (Unidade da Federação = Bahia)				
Cor	De	Até	Freqüência	%
	400	400	1	0,2
	1.618	1.618	1	0,2
	7.000	12.500	2	0,5
	35.000	35.000	1	0,2
	70.000	70.000	1	0,2
	100.000	135.000	2	0,5
	136.500	136.500	1	0,2
	152.000	255.000	2	0,5
//////	Ausência de dados, (-) ou valor desidentificado		406	97,4

Fonte: IBGE - Produção Agrícola Municipal



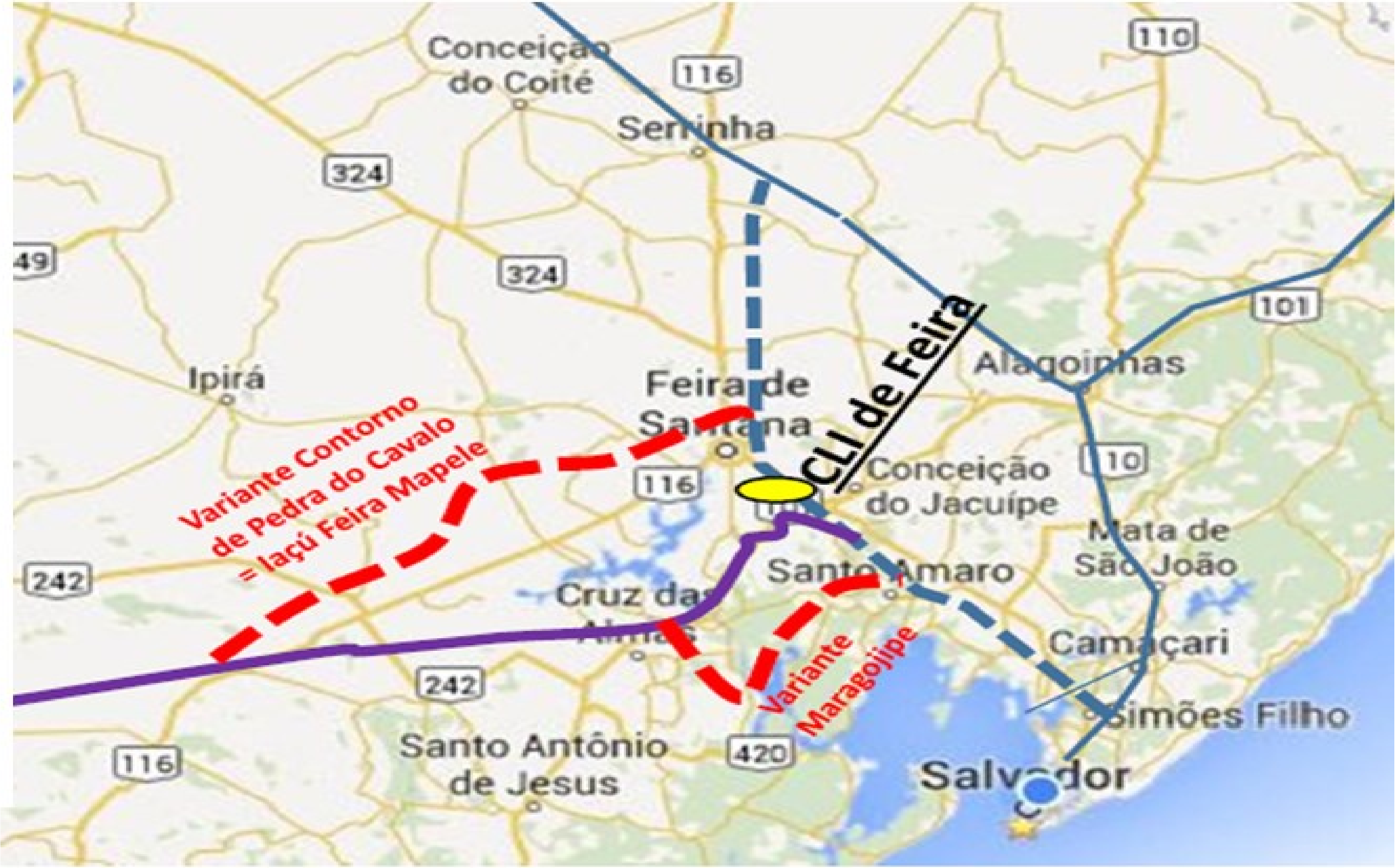
Fonte: SECEX

Railway System



GOVERNO DO ESTADO
SECRETARIA DO PLANEJAMENTO

New rail projects in Feira de Santana area
Railways projects optionsto Paraguaçu Valley



FERROVIA CENTRO ATLÂNTICA - FCA

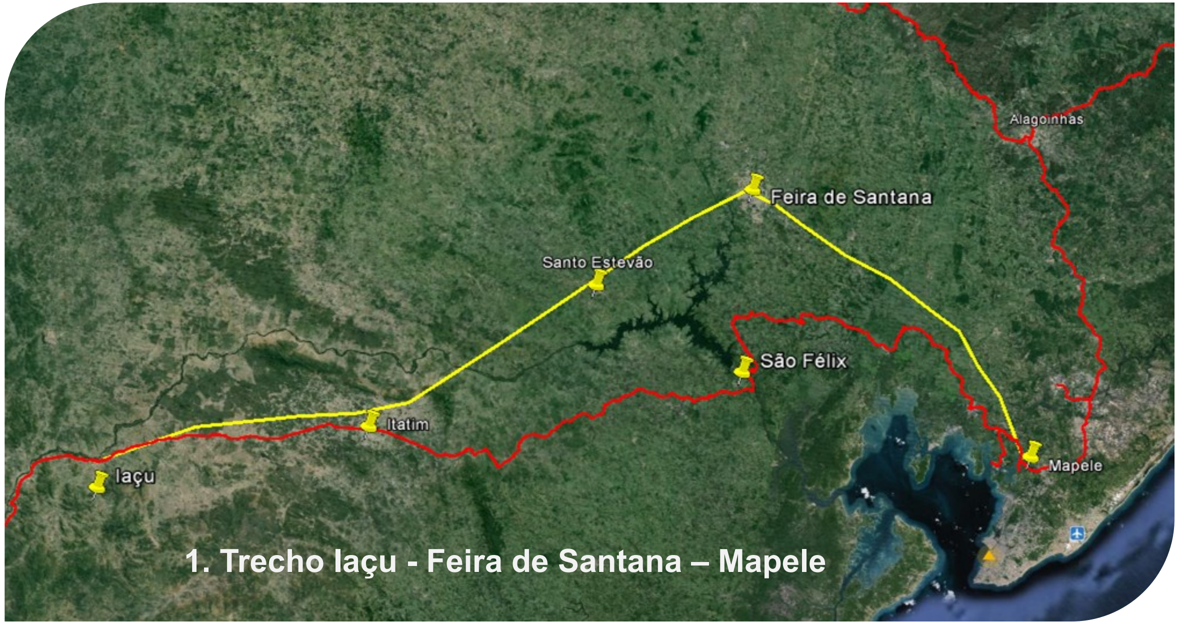
Implantação do ramal Porto de Aratu / Feira de Santana / Iaçu (235 km): eliminar o gargalo entre Cachoeira / São Felix e viabilizar o escoamento de minérios.

Capacidade assegurar o escoamento de 11 milhões de toneladas/ano.

Investimentos aprox. de **US$ 484,5 milhões**.

Trechos na Bahia:

- Salvador (BA) / Propriá (SE) | 537 km
- Alagoinhas (BA) / Juazeiro (BA) | 450 km
- Simões Filho (BA) / Divisa entre BA e MG | 854 km



1. Trecho Iaçu - Feira de Santana – Mapele

CENTRO ATLÂNTICA RAILWAY - FCA

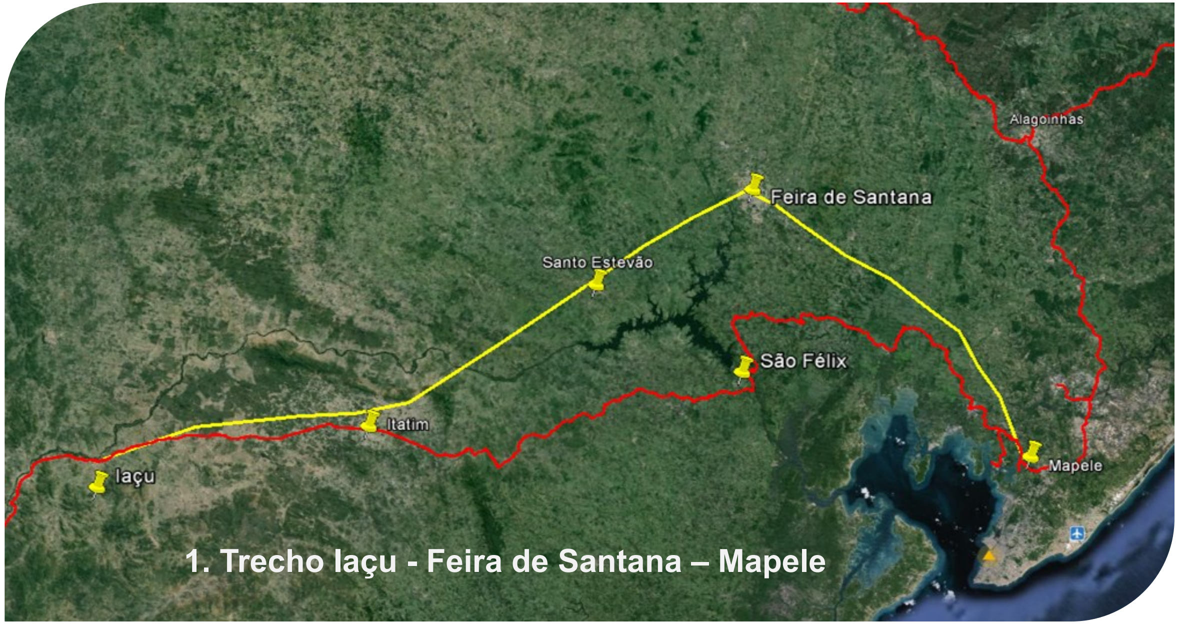
Implantation of the Aratu / Feira de Santana / Iaçu branch (235 km): eliminate the bottleneck between Cachoeira / São Felix and make it possible to transport ores production.

Capacity to ensure the flow of 11 million tons / year.

Investments approx. of **US $ 484.5 million**.

Strech in Bahia :

- Salvador (BA) / Propriá (SE) | 537 km
- Alagoinhas (BA) / Juazeiro (BA) | 450 km
- Simões Filho (BA) / border city between BA and MG | 854 km.



RAILWAYS

FIOL / BIOCEAN RAILWAYS

RAILWAYS

FIOL - Concession

- Studies of EVTE (Economic Viability), investments made: R $ 2.5 million

- Public hearings held in Ilheus and Brasilia in 2018;

- Estimated concession: 2019 - 1st stretch: Ilhéus / Ba to Caetité / Ba

Source: Casa Civil – Gov / BA

RAILWAYS

FICO / FIOL

Railroad under construction with estimated 1,641 km, part of the connection between the Atlantic oceans in Brazil and the Pacific in Peru.

- EVTE studies were carried out - from the municipality of Água Boa (MT) to Ilhéus (BA)

Campinorte (GO) / Vilhena(RO)

Source: Casa Civil – Gov / BA

INFRASTRUCTURE | AIRPORTS

SALVADOR INTERNATIONAL AIRPORT
3rd largest airport infrastructure in Brazil

8th largest in number of passenger in the Country

Ability to serve 11 million passengers per annum

ILHÉUS AIRPORT
Capacity to serve 700,000 passengers per year

AIRPORT OF PORTO SEGURO
Serves 1.8 million passengers per year

- SALVADOR / LISBOA
- SALVADOR / MADIRD
- SALVADOR / BUENOS AIRES
- PORTO SEGURO / BUENOS AIRES
- SALVADOR / BOGOTÁ
- SALVADOR / CÓRDOBA
- PORTO SEGURO / CÓRDOBA
- SALVADOR / MIAMI
- SALVADOR / ILHA DO SAL (início em junho/2018)
- SALVADOR / CIDADE DO PANAMÁ (início em julho/2018)

Source: Bahiatursa (Jun 2018)

INFRASTRUCTURE | AIRPORTS

Concession Jorge Amado Airport - ILHÉUS

Approx. 700 thousand passengers / year (Third largest in numbers of passengers in the state of Bahia with capacity to operate large aircraft, such as Boeing 737 800, A318, EMB195);
About 10 thousand aircraft operations per year.

- Estimated investment: US $ 13 million

Airport - PORTO SEGURO

Project for expansion of the passenger terminal, recovery of the runway and landing, parking of aircraft, parking of vehicles, new KF, reform of the section against fire, expansion night beacon.

- Estimated investment: US $ 6 million
- 1,800 passengers per year

SENAI | CIMATEC

GOVERNO DO ESTADO
BAHIA. AQUI É TRABALHO.

REFERENCE INSTITUTION IN EDUCATION, RESEARCH, DEVELOPMENT AND INNOVATION RETURNED TO THE INDUSTRY, CONSIDERED. THE BEST UNIVERSITY CENTER FOR HIGHER EDUCATION IN NORTH / NORTHEAST ENGINEERING AND ONE OF THE COUNTRY 'S MAIN INSTITUTIONS OF SCIENCE AND TECHNOLOGY (ICTs)

AREAS OF EXPERTISE

- Software and supercomputing, biotechnology and health, advanced manufacturing, mobility and infrastructure, energy and sustainability, new products, materials and metrology, other skills.
- RD & I, operating research projects of high national and international impact.

CIMATEC INDUSTRIAL

- Large technological and industrial complex in an area of 4 million m
- Advanced laboratories, large-scale pilot plants, safety areas for testing and risk operations, multi-purpose test track for technological innovation projects for the automotive sector.

CIMATEC YEMOJA SUPERCOMPUTER

Faster Latin America 3D and 4D seismic data processing of pre-salt industrial dimensions.

FLATFISH

- Subsea self-propelled vehicle
- Used for high resolution 3D visual inspection.

SANITATION

Metropolitan Region of Salvador – RMS

A RMS, also known as Greater Salvador and by the acronym RMS, was instituted by Federal Complementary Law No. 14, dated 06/08/1973. With 3,899,533 inhabitants according to the Brazilian Institute of Geography and Statistics (IBGE) estimate for 2018, becomes the second largest urban agglomeration in the Brazilian Northeast and the seventh in Brazil, concentrating approximately 43.94% of the state GDP. It comprises the municipalities of Camaçari, Candeias, Dias d'Avila, Itaparica, Lauro de Freitas, Madre de Deus, Mata de São João, Pojuca, Salvador, São Francisco do Conde, São Sebastião do Passé, Simões Filho and Vera Cruz.

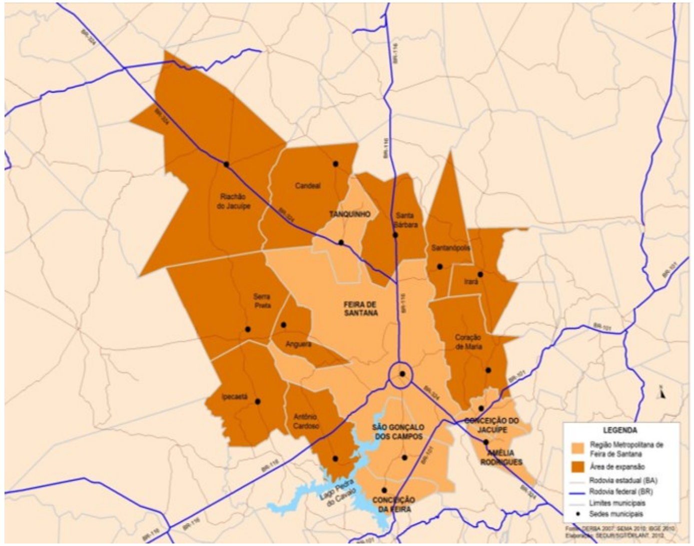
Características geográficas	
Área	4 375,123 km²[1]
População	3 899 533 hab. *EstimativaIBGE/2018*
Densidade	891,3 hab./km²
IDH	0,743 – Elevado *PNUD/2010*
PIB	R$ 107 670 081 mil *IBGE/2015*
PIB per capita	R$ 27 235,56 *IBGE/2015*

SANITATION

Metropolitan Region of Salvador - RMS

Created by the complementary state law nº. 35 of 06/07/2011, the metropolitan region of Feira de Santana would encompasses 15 municipalities, but in principle only six cities would be included: Amélia Rodrigues, Conceição da Feira, Conceição do Jacuípe, Feira de Santana, São Gonçalo dos Campos and Tanquinho, and the others will be incorporated during the second phase of the project. There will be included Anguera, Antônio Cardoso, Candela, Heart of Mary, Ipecaetá, Irará, Riachão do Jacuípe, Santa Bárbara, Sertanópolis and Serra Preta.

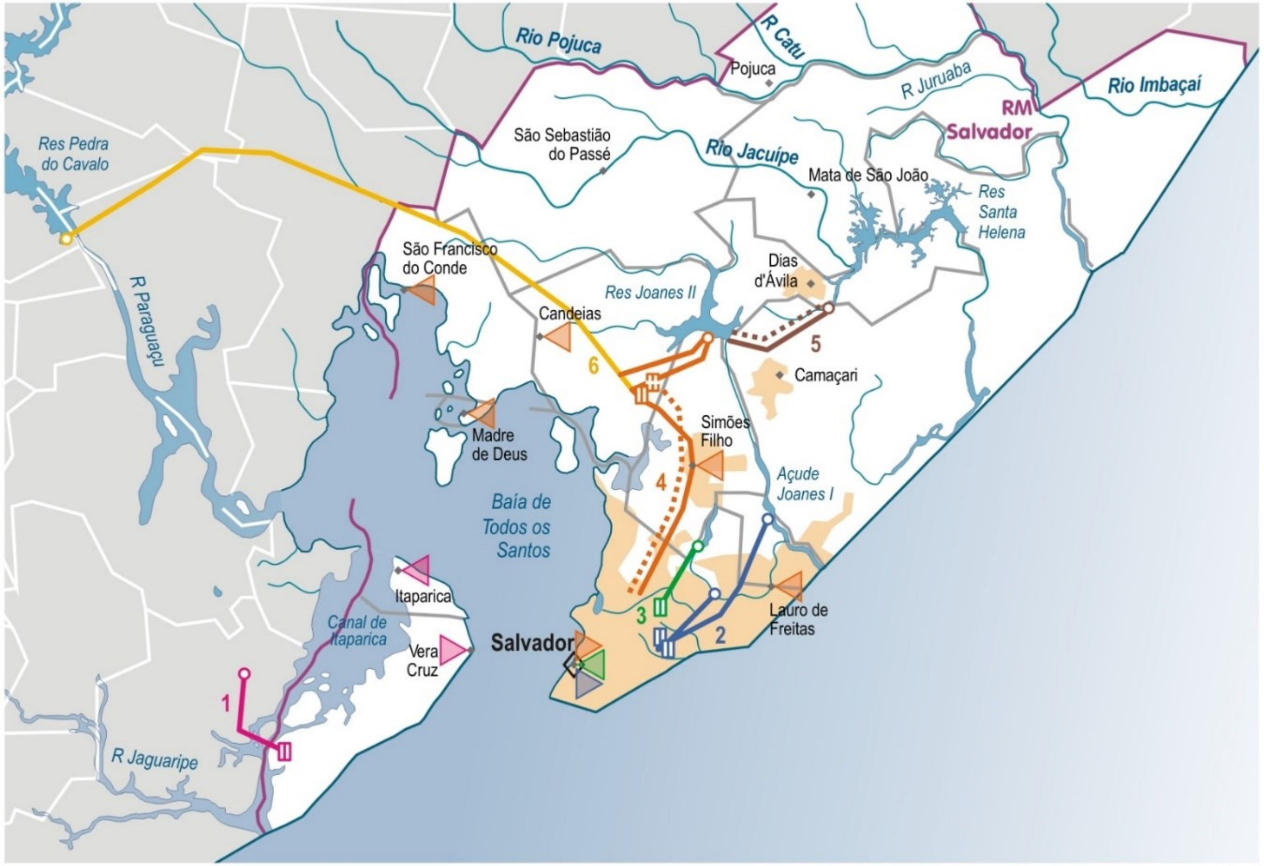
Características geográficas	
Área	2 265,426 km²[1]
População	786 086 hab. *EstimativasIBGE/2014*
Densidade	346,99 hab./km²
IDH	0,687 – Médio
PIB	R$ 14.305.998 bilhões *IBGE/2014*[2]
PIB per capita	R$ 18,199 024



GOVERNO DO ESTADO
BAHIA, AQUI É TRABALHO.

SANITATION

WATER SUPPLY SYSTEM
RMS



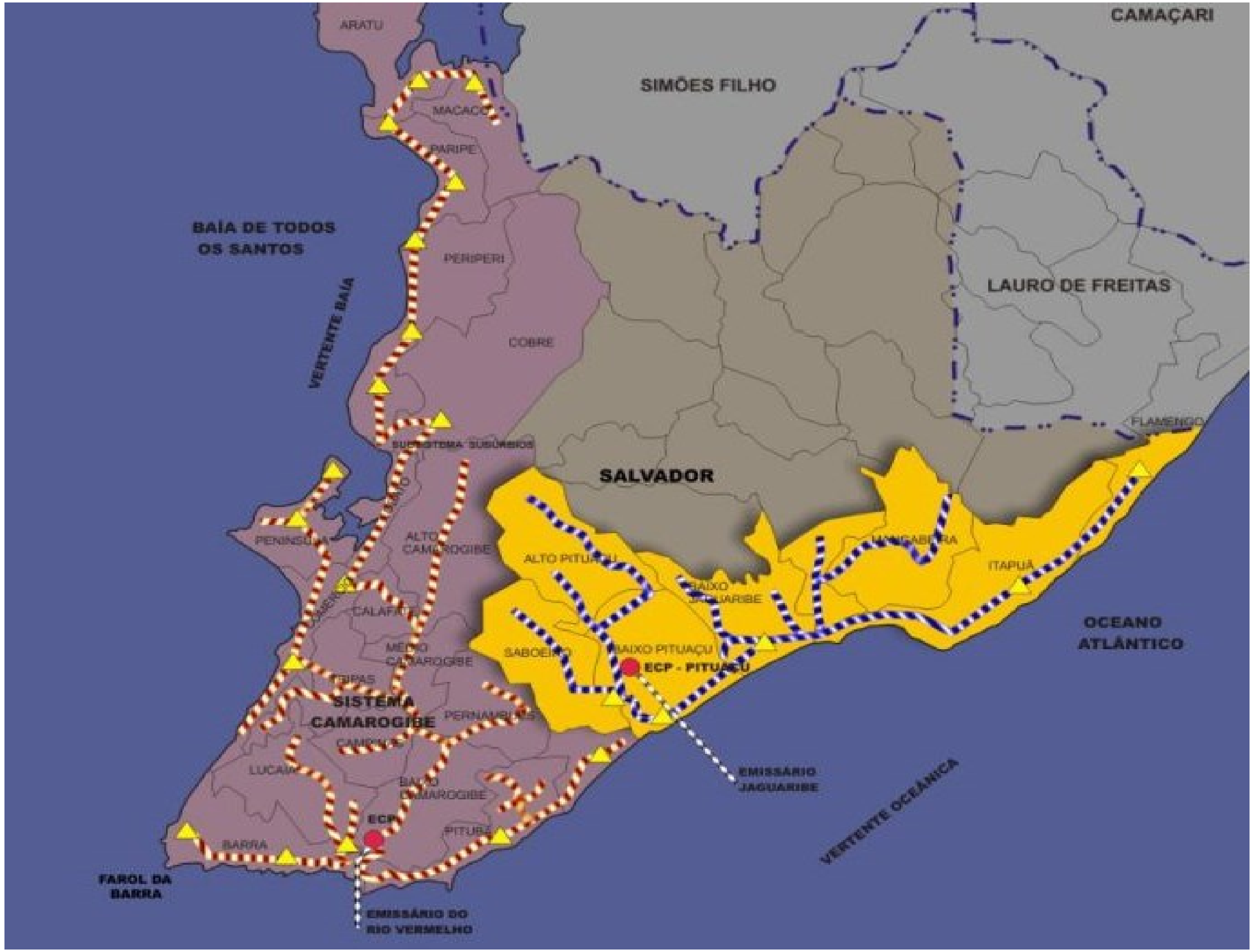
1 SIN Itaparica-Vera Cruz
2 SIS Ipitanga I-Joanes I (Parque Bolandeira)
3 SIS Ipitanga II (ETA Suburbana)
4 SIN Salvador-Lauro de Freitas-ETA Principal
5 Sistema Adutor Santa Helena-Joanes II
6 Sistema Adutor Pedra do Cavalo

Área urbanizada
Limite de Região Metropolitana
Sistema existente / captação
Sistema planejado / captação
ETA existente
ETA planejada
Sede urbana atendida por sistema

0 10 20 30 40km N

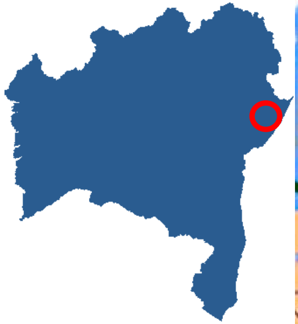
SANITATION

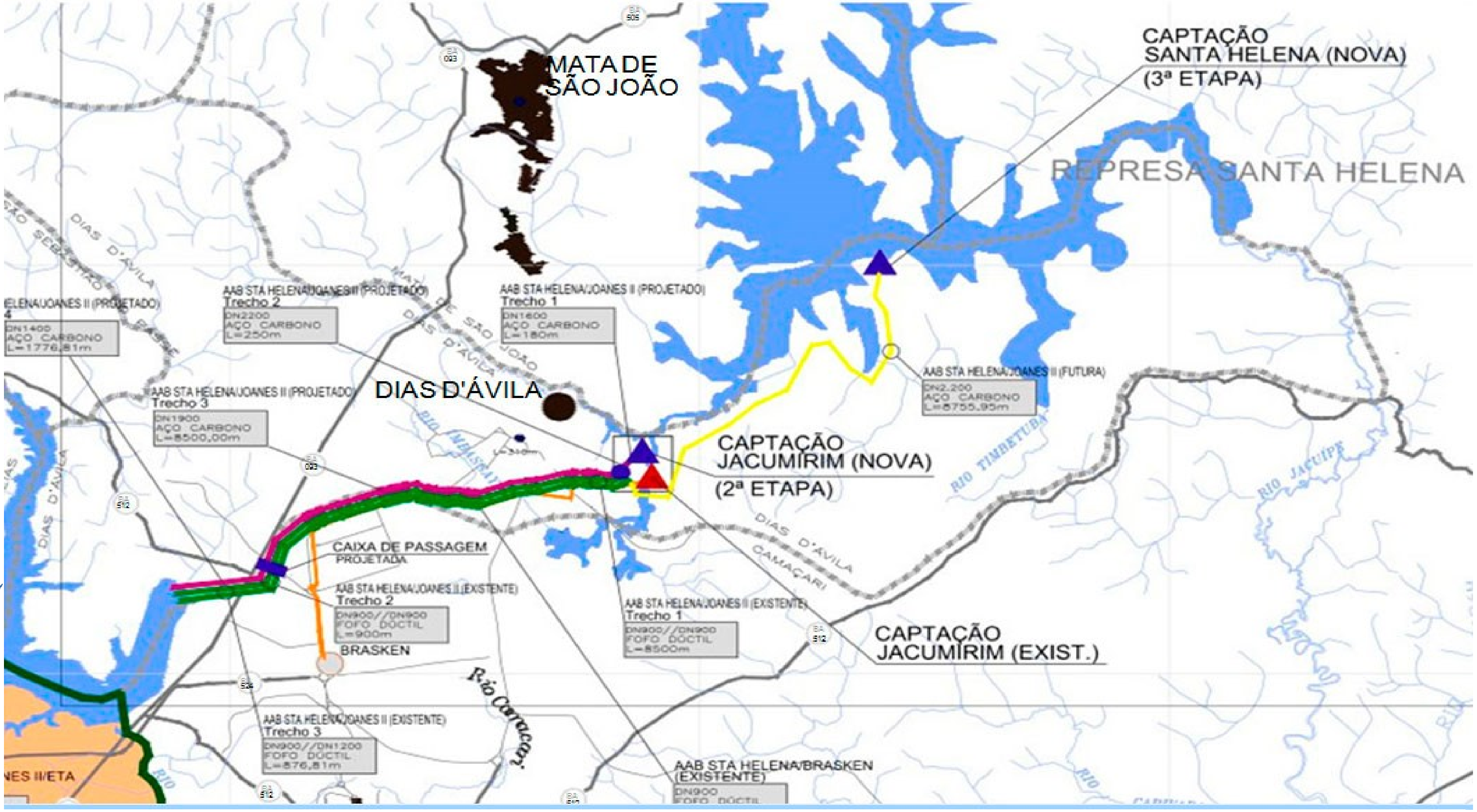
SANITARY SEWAGE SYSTEM
Metropolitan Region of Salvador



WATER SUPPLY EXPANSION

TRANSPOSITION of SANTA HELENA DAM to JOANES II TRANSPOSITION – SALVADOR





WATER SUPPLY INFRASTRUCTURE

ENLARGEMENT OF THE TRANSPOSITION SANTA HELENA - JOANES II

- The Integrated System of Water Supply - SIAA Salvador: Salvador, Lauro de Freitas, Simões Filho, Candeias, Madre de Deus and São Francisco do Conde and it includes the use of the reservoirs from Pedra do Cavalo, Joanes II and Joanes I dams;

- The investment for works of capture and elevation and raw water supply is estimated at US $ 94,000,000 (ninety-four million dollars) and will benefit a population of 3,419,917 inhabitants (beginning of plan - year 2015) and 4,400 .793 (end of plan - year 2040);

- Locations and industries: Salvador, Lauro de Freitas, Simões Filho, Candeias, São Francisco do Conde and Madre de Deus, SIAA of Amélia Rodrigues and Santo Amaro; and Braskem Industrial Parks, Camaçari Logistics Center, Petrobrás and CIA Norte.

TRANSPORTATION POJUCA - SANTA HELENA

STEP 1

- Implementation of level dam for water capture;
- Raw water elevation (4 sets);
- Raw water adductor(10.8 Km);
- Flow rate: 2 m3 / s
- Estimated investment: US $ 48.5 million

STEP 2

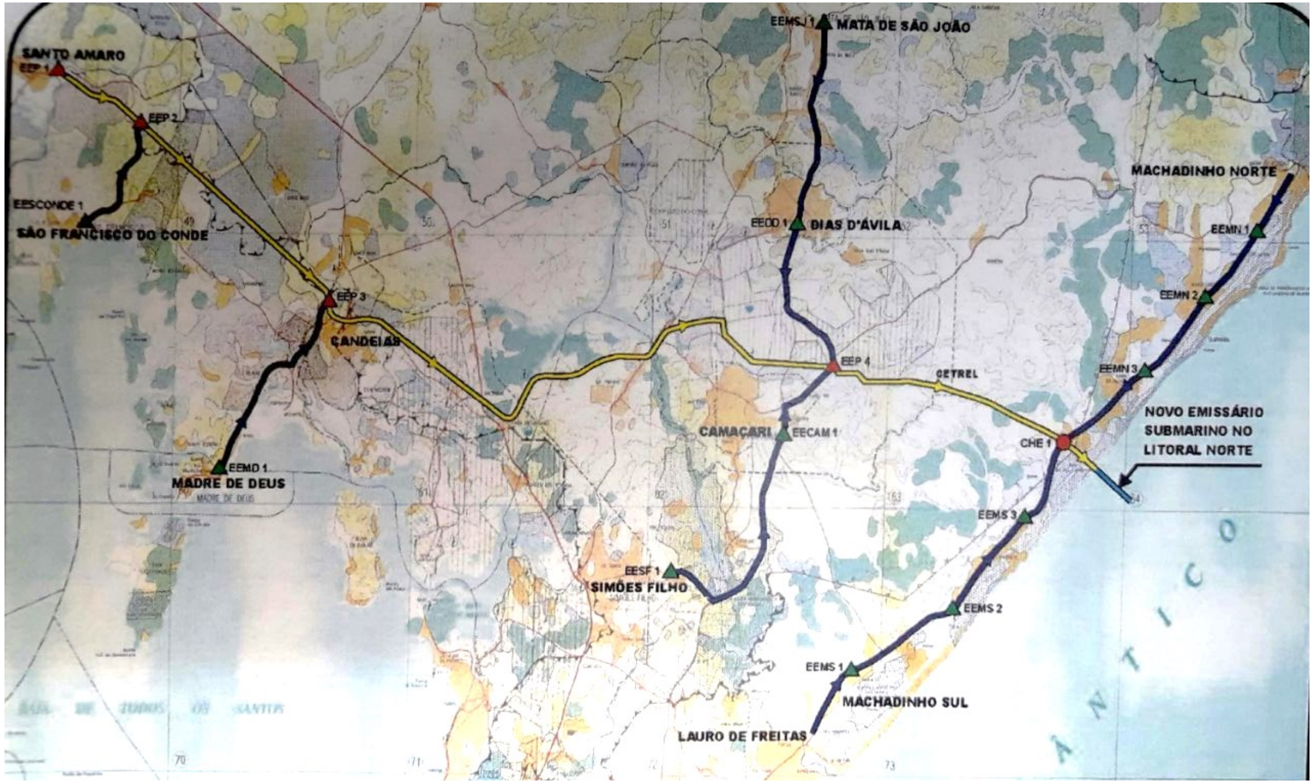
- Construction of a storage dam by using the level dam;
- Adductor of raw water parallel to the adductor from Step 1;
- New Water Treatment Plant
- Flow rate: 9.5 m3 / s
- Estimated investment: US $ 157.6 million

NORTH COAST SUBMARINE OUTFALL (AREMBEPE)

SES REGION NORTH OF SALVADOR

Municipalities served: Dias D'Ávila, Camaçari, Simões Filho and 35% of Lauro de Freitas

- Use of existing structure (Cetrel pier), for construction of submarine emissary;
- Operation of the system only with Stations, dispensing with Treatment Stations (lower complexity));
- Estimated investment: US $ 112 million



GOVERNO DO ESTADO
BAHIA. AQUI É TRABALHO.

RUI COSTA
Governador