CASA CIVIL



BRAZILIAN INVESTMENT PARTNERHIPS PROGRAM

September, 2019



Scan the QR code to access the projects portfolio







Brazil in the world

9th largest economy: GDP US\$ 1.9 trillion 5th largest land area: 8.358.140km² 5th largest population: 210.1 million people

8th largest consumer market: US\$ 1.2 trillion

Household consumption expenditure equals

63% of GDP

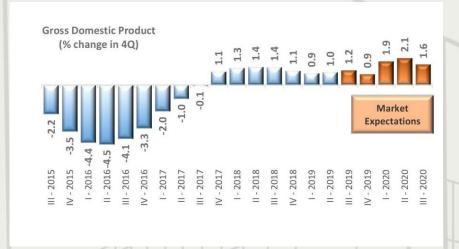
4th largest FDI destination in 2018: US\$ 88.3 billion (40% of Latin America's total FDI inflow) One of the main global producers and exporters of iron ore, soy bean, animal protein, coffee, machinery and aircraft

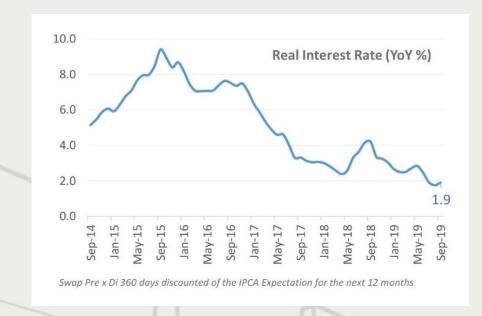




Brazil's Economic Recovery

Ministry of Economy/Brazilian Central Bank data













PPI Council

Presidency of the Republic

Executive Office

PPI Council

Special Secretariat of PPI

- President and Ministers:
 - Executive Office
 - Economy
 - Infrastructure
 - Mines and Energy
 - Secretariat of Government

- Federal Banks:
 - BNDES
 - Caixa Econômica Federal
 - Banco do Brasil
- The PPI Special Secretary serves as the Executive Secretary of the CPPI













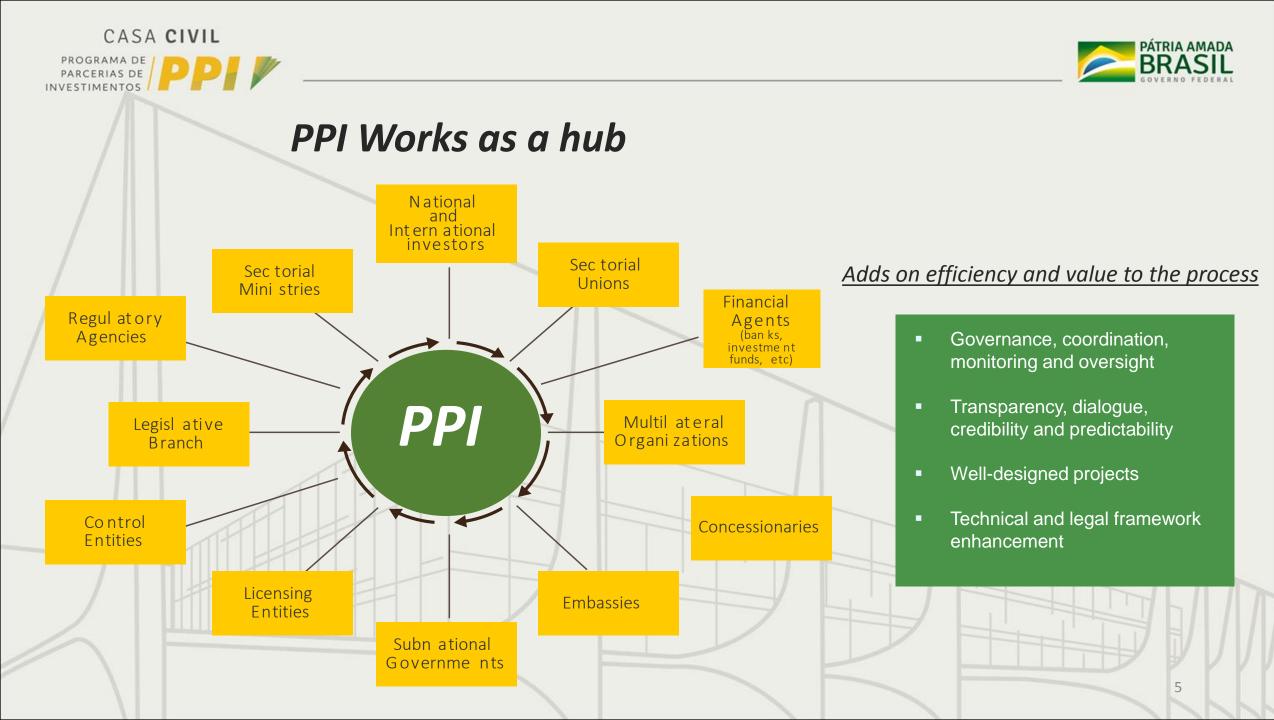
















PPI in figures

Accomplished auctions/bids and projects

Qualified projects

270

Accomplished auctions/bids and projects

152

Investments

R\$ 262.5 billion (USD 64.1 billion)

Concessions /Bonuses

R\$ 52.3 billion (USD 12.8 billion)

40 months of work



PPI in the world

Out of the 152 accomplished projects, 62 had foreign winning companies or in consortium with Brazilian companies.

Brazil China France Spain Italy Norway Qatar Switzerland

Portugal Australia India Germany USA
United Kingdom
Bermudas
Colombia
Canada

- US\$ 64.1 billion (R\$ 262.5 billion) in expected investments in accomplished projects.
- US\$ 47.6 billion (R\$ 194.9 bilhões) 74.25% represent the amount of foreign capital inflow alone.







PPI Portfolio

US\$ 317.5 billion in investments + 10th meeting assets/pricing to be determined in the assessments



5 concession renewals 2 new concessions 4 investments in strategic railways

Airports – 22



Highways – 18



Ports -20



17 Port Terminals

14 leasings

2 investment authorizations

1 Assessment (Santos)

Waterway

1 Licensing



3 Generation

10 Transmission lots

1 Privatization - Eletrobras

5 Licensings

Oil & Gas - 4

Round 6 of PSA

Petrobras' Transfer of

Round 5 of Residual Blocks

Round 16 of Concession



"Sea road" – Cabotage

TRIIP

Policies

PPP daycares

PPP prisions + correctional facilities

Universalizing basic sanitation + solid waste

PPP street lightening

The projects factory



Defense and Security

1 Air Force Communications

1 Police Communications



5 Concessions for Exploiting Mining Rights

Supply – 2

Agreement

Rights



2 Privatizations CEASAMINAS and CEAGESP

Communications - 3



3 Assessments for Privatization(Telebras, ECT and Ceitec)



6 Licensings

3 Privatizations (Casa da Moeda, ABGF, EMGEA)

1 Concession (Lotex)

2 Assessments (Serpro and Dataprev)

Regional Development

2 privatizations (CBTU and Trensurb) PISF - operation

National Parks – 3

3 concessions (Lençóis Maranhenses, Jericoacara and Iguazu Waterfalls)

Policies





In 2019, 28 auctions have been carried out

Investment Expectation

US\$ 2.24 bi

Revenues/Bonuses

US\$ 1.44 bi

Ports



13 auctions + 1 assessment

11 liquid bulk terminals

• 3 in Cabedelo/PB

Auction on March 22

- 5 in Belém/PA
- 1 in Vila do Conde/PA

Auction on April 5

• 1 in Santos/SP

Auction on August 13

1 Celullose Terminal in Paranaguá/PR

Auction on August 13

1 Solid Bulk Terminal

Auction on August 13

1 Assessment – Libra

Auction on August 21

Investments: US\$ 256 million Concession fee: US\$ 199 million

Airports



12 auctions

12 airports auctioned in 3 clusters:

- Northeast:
 - Recife/PE; João Pessoa and Campina Grande/PB;
 Maceió/AL; Aracaju/SE; and Juazeiro do Norte/CE
- Midwest:
 - All in MT: Várzea Grande (Cuiabá), Alta Floresta, Barra do Garças, Rondonópolis and Sinop.
- Southeast:
 - Vitória/ES and Macaé/RJ

Investments: US\$ 860 million Concession fee: US\$ 580 million

Auction on March 15

Contract signed on September 6

Energy





A-4 Power generation

- All in renewable energy
- Photovoltaic energy offered at the lower price in the world

Investments: US\$ 462 million Concession fee: lower energy tariff

Auction on June 28

Railway

1 auction



North-South Railway (FNS)

Investments: US\$ 661.3 million Concession fee: US\$ 661.3 million

Auction on March 28

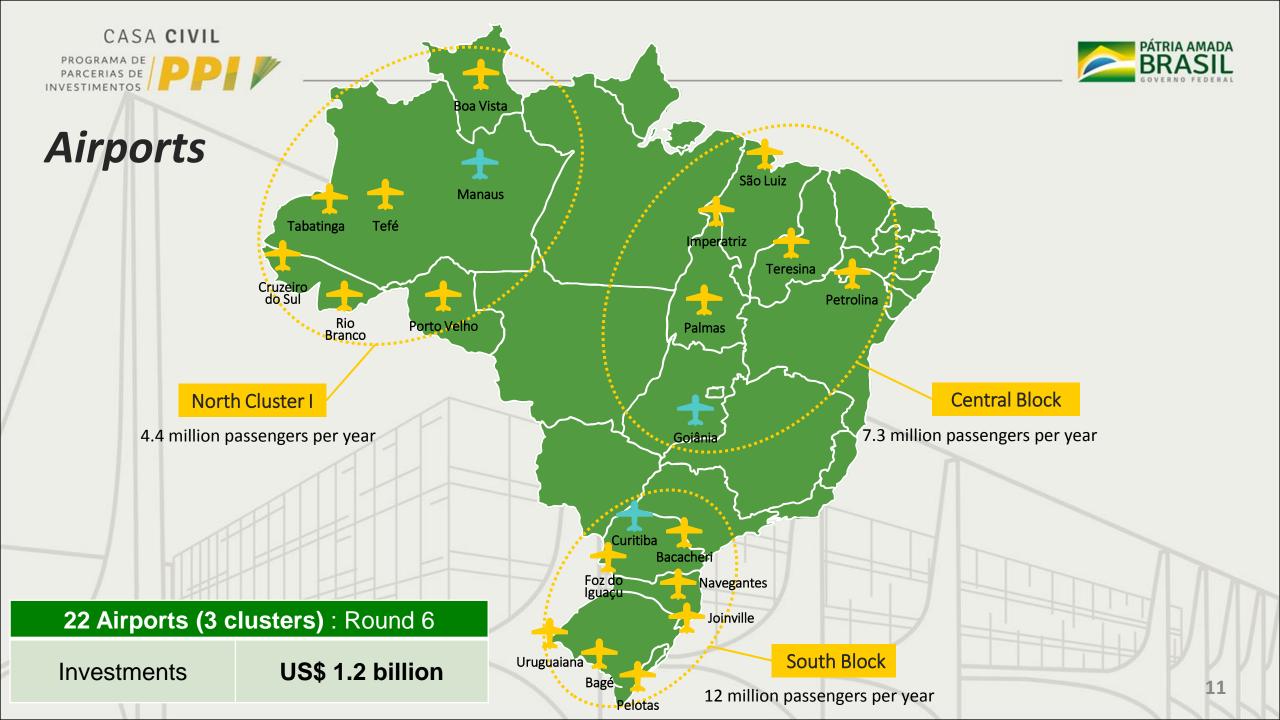
Contract signed on July 31

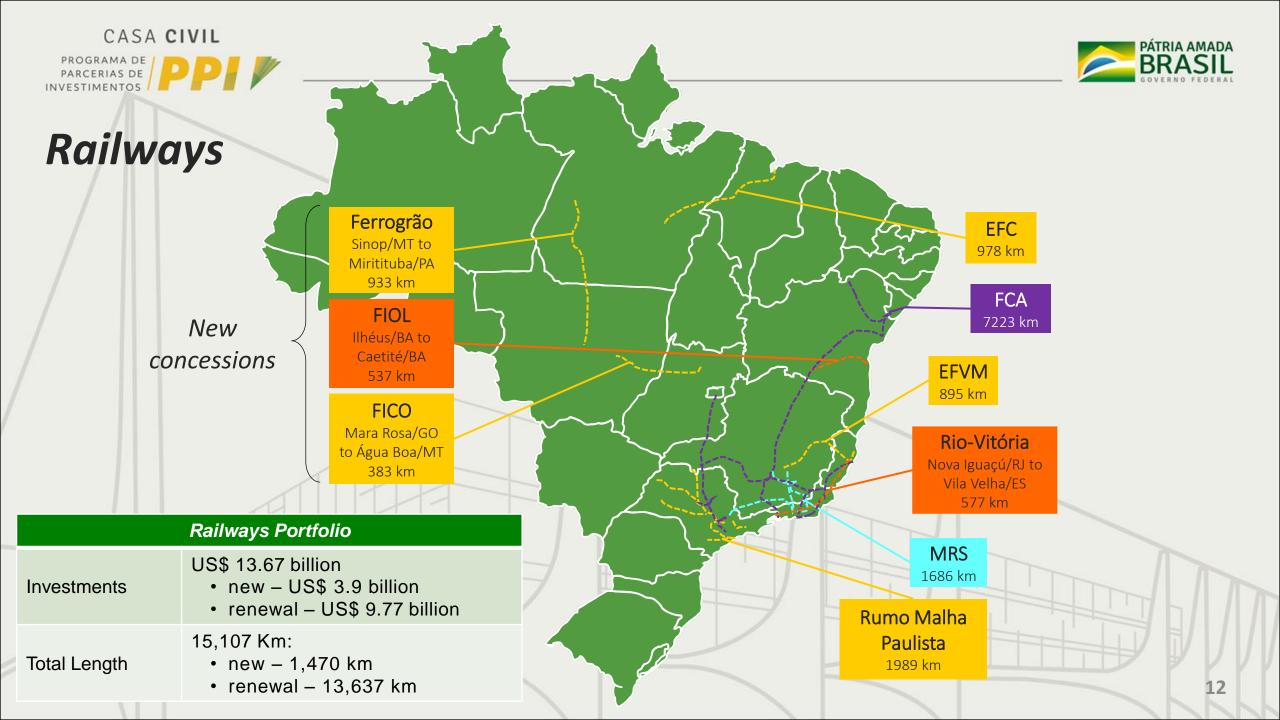
CASA CIVIL

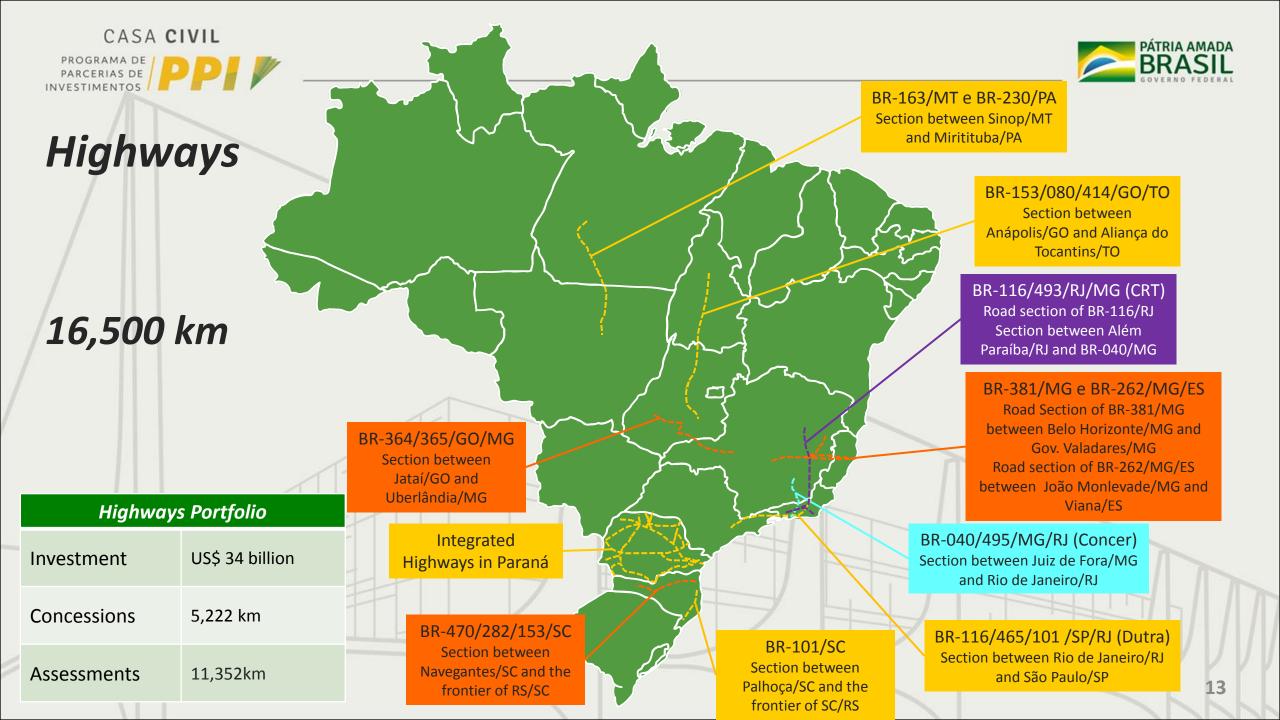
PROGRAMA DE PARCERIAS DE INVESTIMENTOS

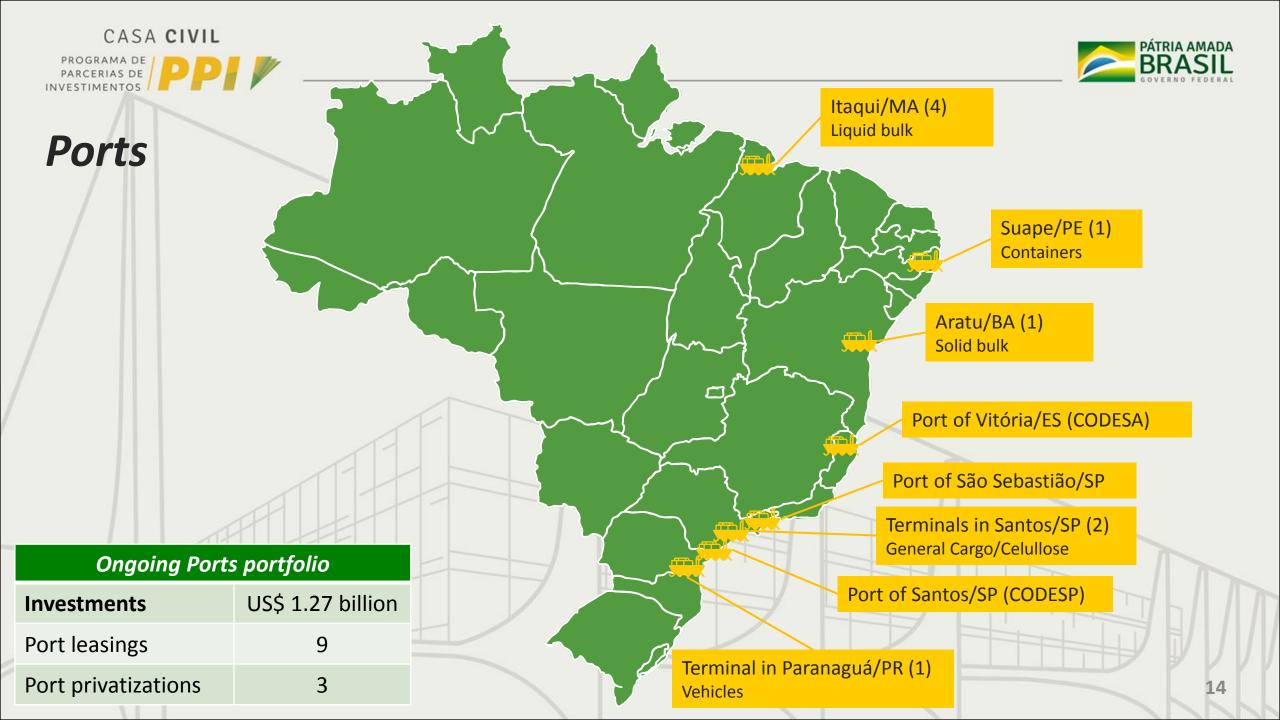
PPI Portfolio

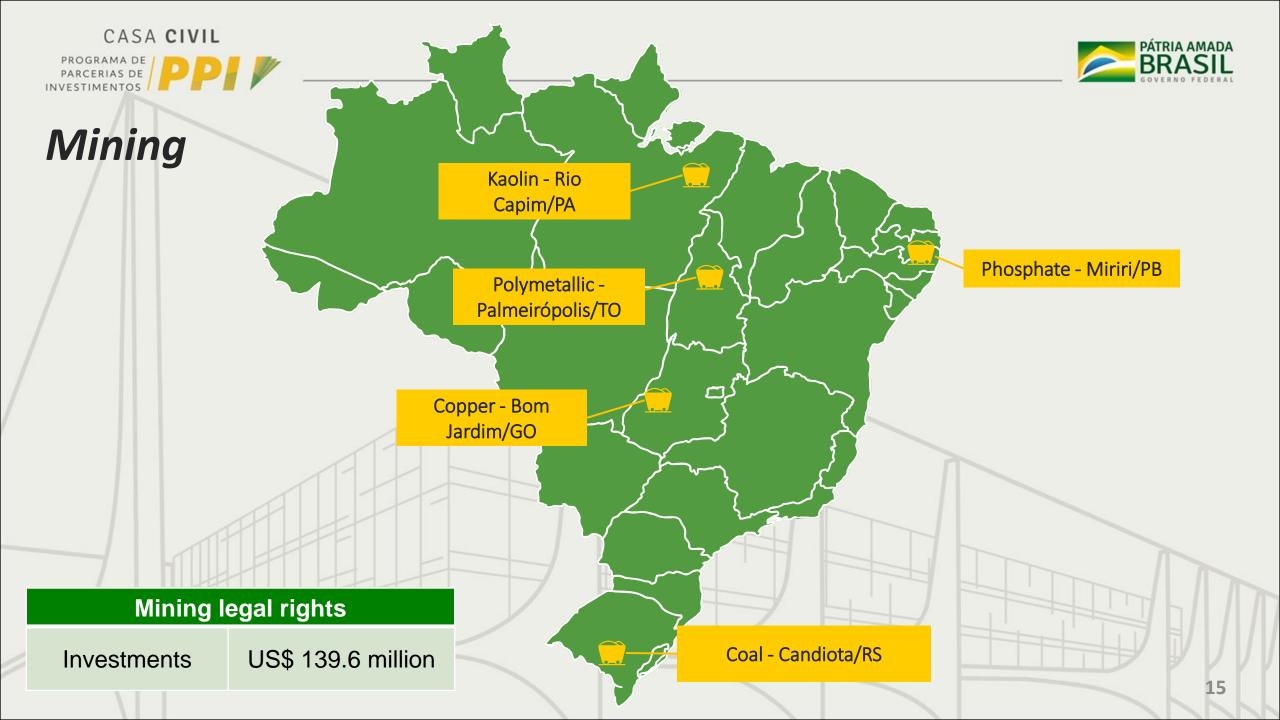


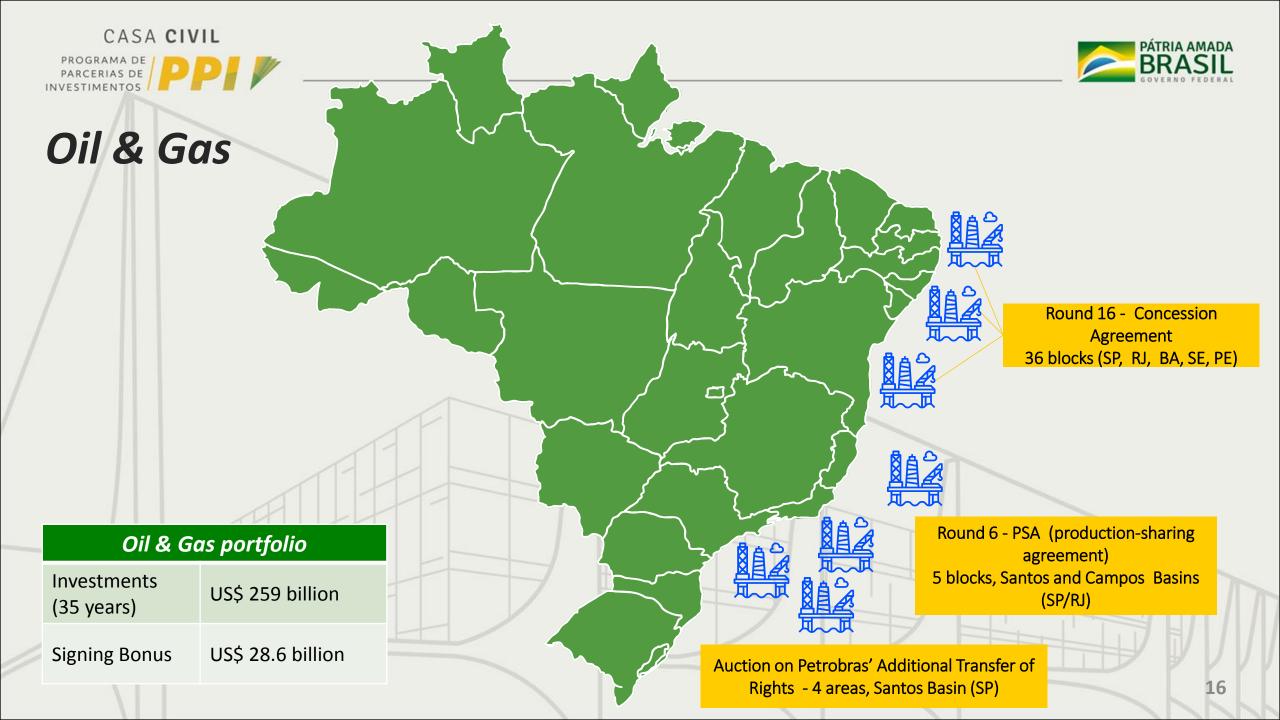


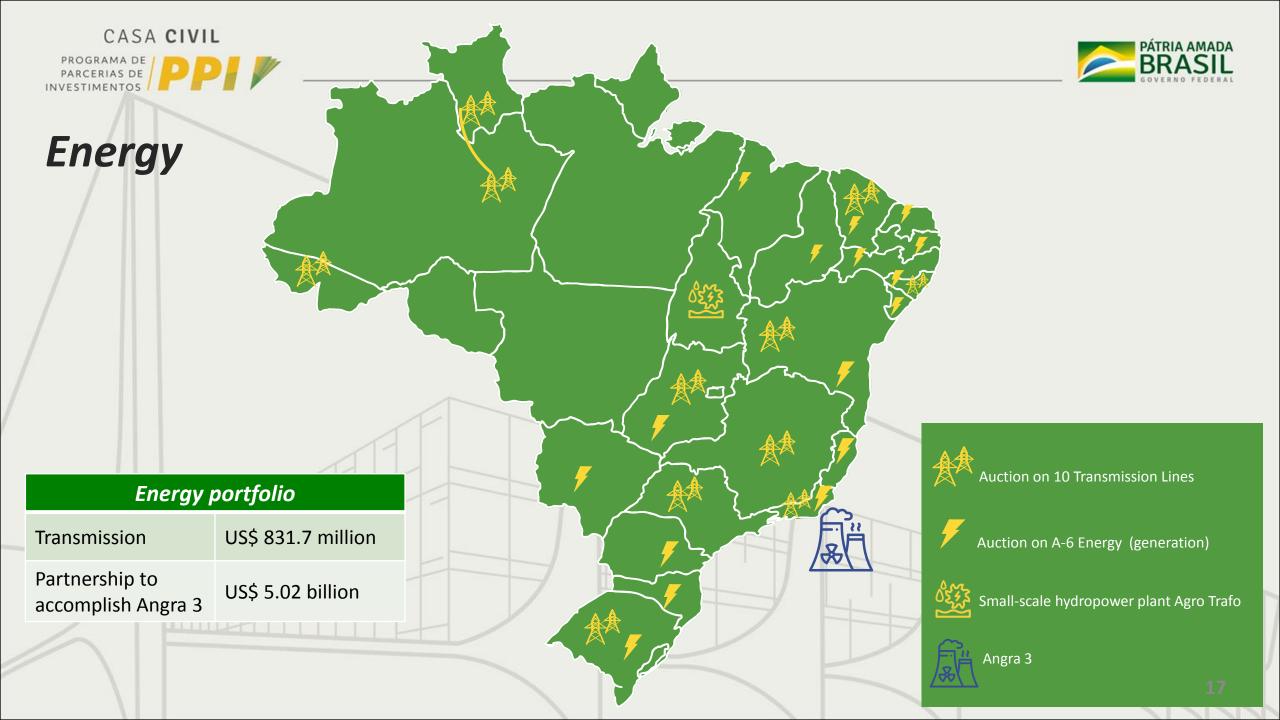


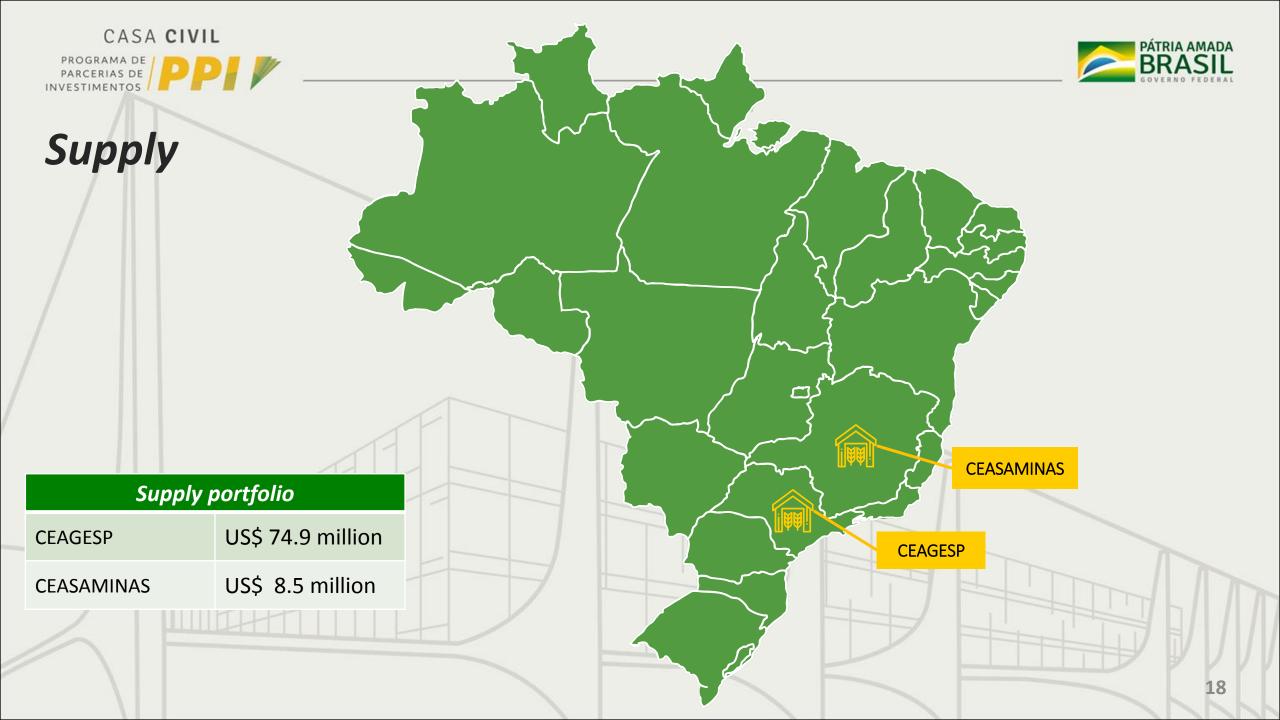
















SoE Privatizations



























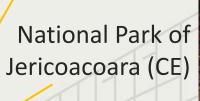
National Parks

National Park of Lençóis Maranhenses (MA)





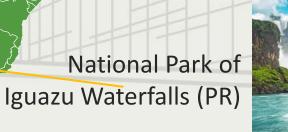






















Policies

- Cabotage (coastline sailing) Policy
- TRIIP Policy for fostering the interstate and international passengers mass land transportation system





Development Policies

- Development policies for subnational levels/ "The Projects Factory"
- Support for structuring projects on universalizing basic sanitation
- Support for structuring projects on energy recovery for solid waste treatment







Support for Subnational levels PPPs

Assessments and Pilot Projects

- Support for structuring projects on early childhood education (public daycares) –
 "Proinfância" Program
- Support for structuring projects on state-level prisons
- Support for structuring projects on correctional facilities
- Support for structuring projects on street lightening for combating criminality
- Support for structuring projects on energy recovery for solid waste treatment
- Support for structuring projects on universalizing basic sanitation

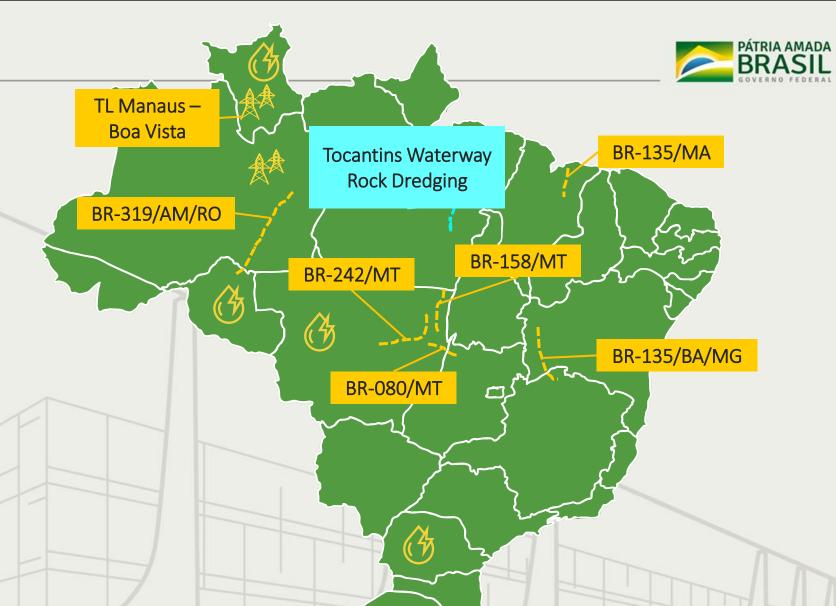








Environmental Licensing





- Castanheira MT
- Telêmaco Borba PR
- Tabajara RO
- Bem Querer RR



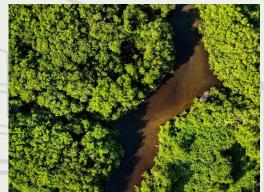


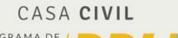
Environmental Licensing

- Brazil is the most biodiverse country on Earth and that implies a major responsibility.
- It counts upon a strong legal framework, which comprises a specific chapter about environmental licensing enshrined in the 1988 Federal Constitution.
- Even before the Constitution, Brazil had already established an Environment National Policy (1981), which is still in force.
- The main purpose of the policy is making social, economic development compatible with preserving environment quality and ecological balance.
- Environmental licensing is a core tool to control and is required for carrying out any activity deploying environmental resources, that, effectively or potentially, bring about environmental degradation



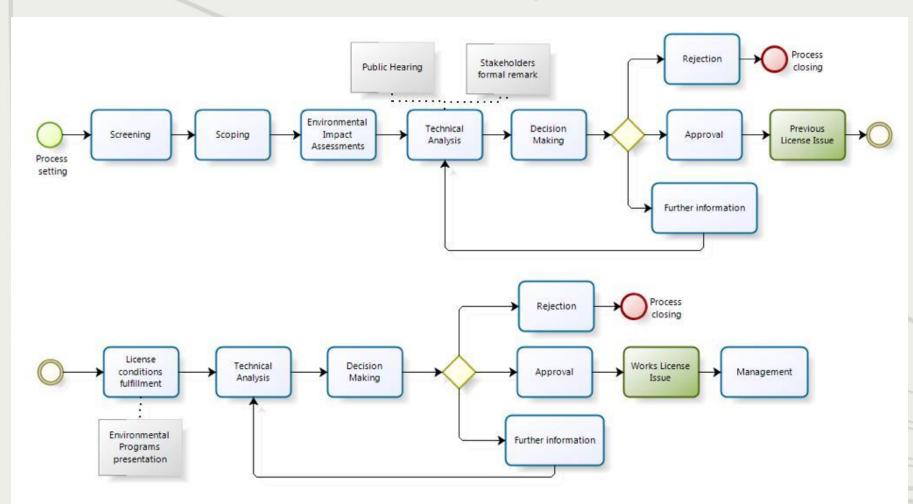








Environmental Licensing Flow



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PROGRAMA DE PARCERIAS DE INVESTIMENTOS

Highlights







Angra 3 Thermonuclear Power Generation

Basic features:

- Site: Angra dos Reis/RJ
- 67.1% of civil works have been accomplished
- Expected investments for accomplishing the works: US\$ 5.02 billion
- Current stage: The Resolution which has qualified Angra 3 in PPI sets forth the establishment of an Interministerial Committee to assess the appropriate model in order to make the plant feasible. The Terms of Reference draft for hiring those assessments is in progress.







ELETROBRAS - Brazilian Power SOE

- A bill will be sent to Congress to set up the guidelines for the privatization.
- Privatization model: Increasing social equity by issuing common shares
- Assigned body to coordinate assessments: BNDES

Some data about the company

- Power generation capacity: 46,856 GW
- Generators (total): 233 units, out of which:
 - Hydropower plants : 47 units
 - Thermoelectric plants: 114 units
 - Wind power plants: 69 units
 - Solar power plant: 1 unit
- Transmission Lines: 70,201 Km
- Current Federal Government shareholding: 51% of common shares (with voting rights)
- Federal Government participation in the total equity (common shares + preference stocks): 40.98%







Highways

Highway	Length	Capex (US\$)	Auction
BR-364/365/GO/MG • Road section from Jataí/GO to Uberlândia/MG	437 km	489 million	Sep 27, 2019
BR-101/SCRoad section from Palhoça /SC to the frontier of SC/RS	220 km	708 million	2020/Q1
BR-153/080/414/GO/TO • Road section from Anápolis/GO to Aliança do Tocantins/TO	850 km	1.85 billion	2020/Q3
 BR-381/MG e BR-262/MG/ES Road section of BR-381/MG from Belo Horizonte/MG to Gov. Valadares/MG Road section of BR-262/MG/ES from João Monlevade/MG to Viana/ES 	672 km	2.2 billion	2020/Q3
BR-163/MT e BR-230/PA • Road section from Sinop/MT to Miritituba/PA	970 km	413 million	2020/Q3
BR-116/465/101 /SP/RJ (Dutra) • Road section from Rio de Janeiro/RJ to São Paulo/SP	635 km	2.7 billion	2020/Q4
BR-040/495/MG/RJ (Concer)Road section from Juiz de Fora/MG to Rio de Janeiro/RJ	211 km	635 million	2020/Q4

New Modelling: lower toll fee (limited discount) + higher concession fee as a tiebreaker







Section between Sinop/MT and Miritituba/PA

- Length: 933 km, plus the sections of Santarenzinho (32 km) and Itapacurá (11 km)
- New railway corridor to export grains through the North region, which aims at improving the outflow of the Midwest agribusiness output by connecting it to the port of Miritituba, in the state of Pará.
- Estimated cargo: 38.3 million tons in 2030 and 46.8 million tons in 2050
- Estimated investment: US\$ 3.1 billion
- IRR: 10.6%



- West-East Integration Railway (FIOL)
 Section between Ilhéus/BA and Caetité/BA
 - Length: 537 km
 - It will allow the iron ore produced in the Caetité/BA
 region and the grain output of the West of Bahia to be
 exported through the South Port, a port complex to be
 built close to the city of Ilhéus/BA. In the future, it is
 also possible to establish a connection between the
 South Port and the North-South Railway (FNS).
 - Estimated cargo: 11.8 million tons in 2023 and 15.8 million tons in 2053
 - Estimated investment: US\$ 805 million, out of which US\$ 390 million are earmarked to accomplish the works
 - IRR: 11.04%





Projects for Privatizing Public Ports

Modeling challenges



- Brazil has been successful in leasing port areas to the private sector, but still hasn't designed a
 privatization modeling for public ports management.
- There are currently three public ports under the assessment stage for structuring the most adequate modeling to attract the private sector.
- Public Administration guidelines may pose obstacles to an efficient management of a port asset, which
 relies on quick decision making to properly respond to regular modernization processes and innovation
 breakthroughs of the sector.
- Besides technical, operational, financial capacity improvement, the private sector plays a major role in these projects as an alternative for reducing the state burden regarding financial commitments and constant mandatory investments.





Port of Santos/SP (CODESP)

Current stage: Planning

Assessments delivery and approval:

2020/Q4

Public Hearing: 2021/Q1

Investments: US\$ 365.5 million



Port of Vitória/ES (CODESA)

Current stage: Assessments

Bidding Notice: 2020/Q4

Auction: 2021/Q1

Investments: US\$ 243.6 million



Port of São Sebastião/SP

Current stage: Planning

Bidding Notice: 2020/Q1

Auction: 2021/Q2

Investments: US\$ 140.1 million







Mining

- 30 mining projects of CPRM (Mineral Resources Research Company) ownership, with mineral deposits already spotted.
 - 5 qualified projects in PPI:
 - Polymetallic Palmeirópolis/TO
 - Phosphate Miriri/PB
 - Copper Bom Jardim/GO
 - Coal Candiota/RS
 - Kaolin Rio Capim/PA
 - The project in Palmeirópolis-TO will be the 1st CPRM area to go on auction. It is a milestone for the sector: it is the first step to entitle the private sector to exploit assets that have been in the CPRM portfolio for the last 30 years.
 - There are still 25 projects in the CPRM portfolio with potential to be qualified in PPI in the future.







Porto Alegre Commuter Trains (Trensurb)

- Porto Alegre
- Canoas
- Esteio
- Sapucaia do Sul
- São Leopoldo



Brazilian Company of Commuter Trains (CBTU)

- Belo Horizonte (MA)
- Recife (MA)
- João Pessoa (MA)
- Maceió (MA)
- Natal (MA)

- Concession structuring by BNDES
- Scope: Assessment for demerging (CBTU), decentralizing companies and providing the concessions for services (CBTU and Trensurb)
- The Terms of Reference draft is in progress to hire assessments





PISF – Project for integrating river São Francisco into the water basins in the north part of the NE region

Basic features:

- The PISF main goal is increasing water security to the inward basins in the north part of the Northeast region, which face a dire situation of water vulnerability
- The North Axe has 96% of accomplishment and the East Axe 98%
- 390 cities and 12 million people will benefit from the PISF
- Investment of US\$ 2.95 billion
- Operational costs are estimated in US\$ 123 million per year

Brief overview:

• The project, which has been structured in 2 main axes of water transfer – North and East axes – and connected branches, aims at solving the dire circumstances of water shortage in the north part of the Northeast region. It will provide water security to many areas in the states of CE, PB, PE and RN, which will take advantage of significant water transfer from the river São Francisco basin.

Interventions: 477 km of canals; 9 pumping stations; 27 reservoirs; 4 tunnels; 13 aqueducts; 9 substations of 230 kV; 270 km of high voltage transmission lines

Qualification model: Assessments for accomplishing the works and eventually operating and managing the concession

Deadline for assessments: December 2019











Project in municipalities

População Beneficiada por Localização e Setor MAZONAS JEONDÓNIA. MATO GROSSO BOLIVIA

Projeto	UF	Setor
IP ARACAJU	SE	IP
IP BELÉM	PA	IP
IP CACHOEIRO DE ITAPEMIRIM	ES	IP
IP CAMAÇARI	ВА	IP
IP CAMPINAS	SP	IP
IP CORUMBA	MS	IP
IP FEIRA DE SANTANA	BA	IP
IP FRANCO DA ROCHA	SP	IP
IP NOVA LIMA	MG	IP
IP SAPUCAIA DO SUL	RS	IP
IP TOLEDO	PR	IP
RSU BAURU	SP	RSU
RSU COMARES	CE	RSU
RSU CONVALE	MG	RSU
RSU TERESINA	PI	RSU
SA CRATO	CE	SA
SA SÃO SIMÃO	GO	SA
SA VOLTA REDONDA	RJ	SA

Supporters:









Projects 18

Entitled population 8 million

Cities 38

Investments US\$ 406 million

Sectors to benefit from the project
- Bidding schedule

Solid Waste Treatment - 2020/Half 1

Basic sanitation - 2021/ Half 2

Public lightening - 2020 / Half 1





The challenge of universalizing basic sanitation

Qualifying assessments for universalizing basic sanitation through PPPs, taking into account an estimate of US\$ 147 to US\$ 171 billion in investments to achieve universal coverage by 2033.

Assignment: Federal District and municipalities





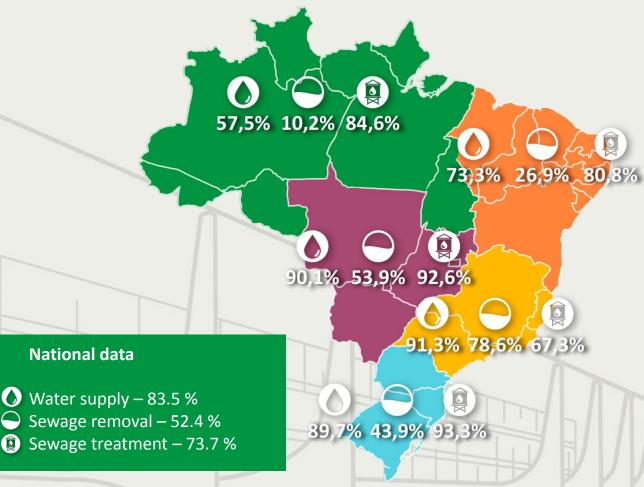


The challenge of universalizing basic sanitation

Goals

- Universalizing the coverage of basic sanitation in Brazil
 - In Brazil, a population similar to Canada's has no access to proper water
 - More than 100 million Brazilians have no access to sewage removal and treatment
- Forging partnerships with the private sector and subnational level bodies
- Structuring bankable projects to provide proper services to Brazilians

Access to basic sanitation



Source: IBGE (2017), with data from National Industry Federation (CNI).





PPI upcoming events (2019)

Highway (auction and notice)



- BR-364/365-MG/GO
- (Section between Jataí/GO and Uberlândia/MG)

Auction on September 18

- BR-101/SC
- (Section between Palhoça / SC and the frontier SC/RS)

Bidding notice on 2019/Q4

Investments: US\$ 1.21 billion Bid criterion: Lower toll fee

Lotex (Auction)

Investments: US\$ 132 million

Auction on October 22

Mining Rights (Auction)



Polymetallic - Palmeirópolis/TO Zinc, Lead, Copper (Cadmium, Silver and Gold)

Investments: R\$ 62.97 million Signature Bonus: US\$ 3.70 million

Auction on October 21

Oil and Gas (Auction)



Petrobras' transfer of rights

• Largest oil and gas auction in the world

Round 6

Auction on November 6

Round 16

Auction on October 10

Investments: US\$ 0,26 trillion Bid criterion: US\$ 29,4 billion

Energy



Generation of New Energy:

The market offered 100,829 MW, in 1,829 projects.;

Auction on October 17

Transmission lines

10 transmission lines

Auction on December 19

Investments: at least US\$ 836 million

(transmission)

Bid criterion : Lower energy tariff

Railways (renewal)



• Rumo Malha Paulista Logistics

Addendum in 2019/Q4

Vitória-Minas and Carajás Railway

Addendum in 2019/Q4

Investments: US\$ 4.91 billion Bid criterion: US\$ 1.41 billion





PPI auctions scheduled for 2020

	2020/ Half 1		2020 / Half 2		
	Highway • BR-101 (SC)	 Mining Rights Copper - Bom Jardim de Goiás (GO) Coal - Candiota (RS) Phosphate - Miriri (PB) 	 Highways BR-153/080/414 (GO/TO) BR-381/262 (MG/ES) BR-163/230 (MT/PA) BR-116/465/101 (RJ/SP) - President Dutra BR-040/495 (MG/RJ) - Concer 	Airports – Round 6 22 airports in 3 clusters North 1 Cluster South Cluster	
	MRS (SP/RJ/MG)FIOL (BA)FCA (SE/ES/SP/	Port Terminals • 4 in the Port of Itaqui/MA • 2 in the Port of Santos/SP • 1 in the Port of Suape/PE	Railway • Ferrogrão – Grain Railroad (MT/PA)	Central Cluster	
			Port Terminals 1 in the Port of Aratu/BA	Energy/Generation • Angra 3 (RJ)	





New projects*

- Round 7 of Airport Concessions
- Round 17 of O&G auctions under the concession agreement
- Round 7 of O&G auctions under the PSA (production-sharing agreement)
- Auction on New Energy (LEN) A-4
- Auction on New Energy (LEN) A-6
- Auction on transmission lines
- Mining rights
- Port terminals
- New privatizations
- Public Health sector







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