

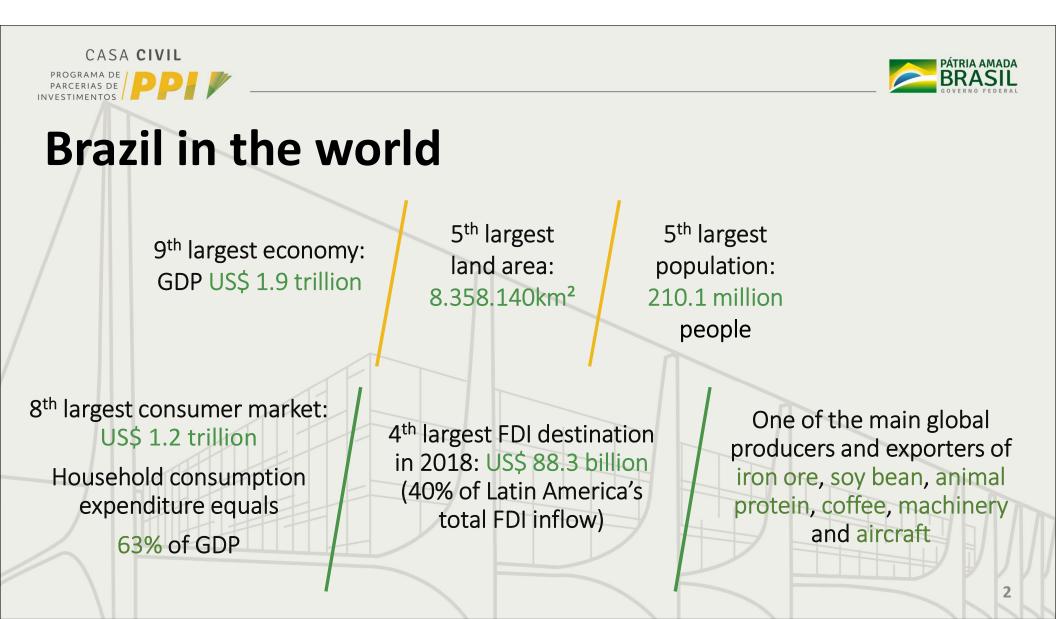
BRAZILIAN INVESTMENT PARTNERHIPS PROGRAM

September, 2019



Scan the QR code to access the projects portfolio

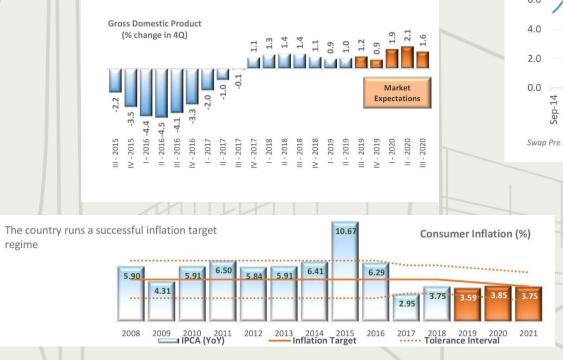


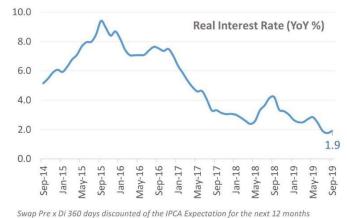


Brazil's Economic

Recovery

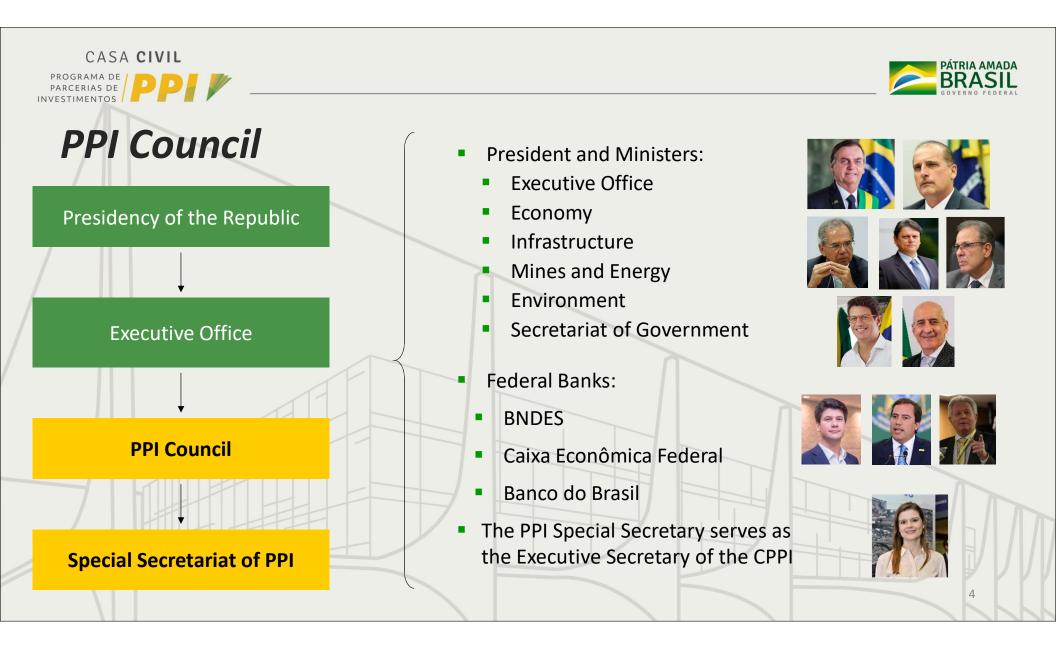
Ministry of Economy/Brazilian Central Bank data

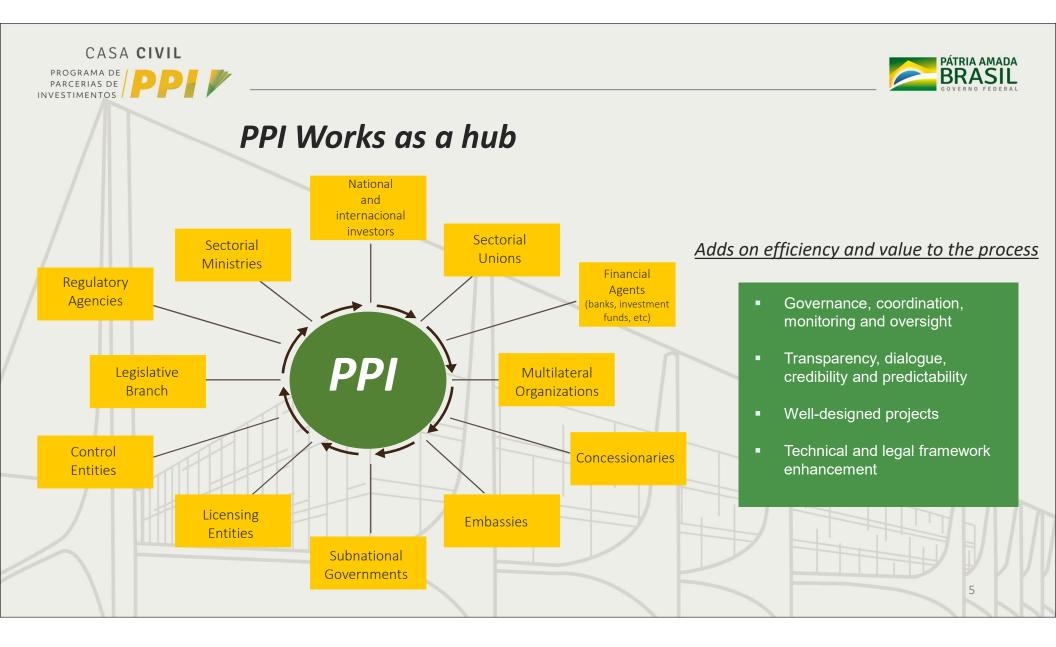


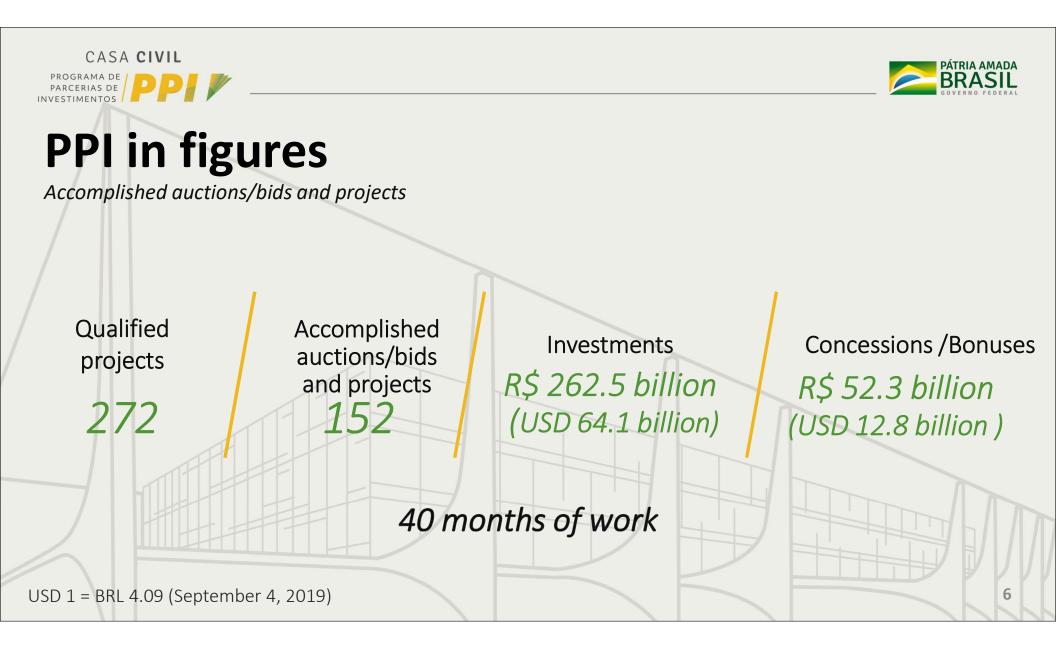














PPI in the world

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	Z

- 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

Railways – 11	Ports – 20 2 Privatizations 17 Port Terminals 14 leasings 2 investment authorizations 1 Assessment (Santos) Waterway 1 Licensing	Energy–21 (F) 3 Generation 12 Transmission lots 1 Privatization - Eletrobras 5 Licensings	Oil & Gas – 4 Petrobras' Transfer of Rights Round 5 of Residual Blocks Round 6 of PSA Round 16 of Concession Agreement	 Policies "Sea road" – Cabotage TRIIP PPP daycares PPP prisions + correctional facilities Universalizing basic sanitation + solid waste PPP street lightening The projects factory
Airports – 22 22 airports in 3 clusters	Defense and Security (PPP's) - 2 1 Air Force Communications 1 Police Communications	Mining – 5 5 Concessions for Exploiting Mining Rights	Supply – 2 2 Privatizations CEASAMINAS and CEAGESP	Communications – 3 3 Assessments for Privatization(Telebras, ECT and Ceitec)
Highways – 18 10 concessions 2 Feasibility assessments (11,350 km) 6 Licensings	Economy – 6 3 Privatizations (Casa da Moeda, ABGF, EMGEA) 1 Concession (Lotex) 2 Assessments (Serpro and Dataprev)	Regional Development – 3 2 privatizations (CBTU and Trensurb) PISF - operation	National Parks – 3 3 concessions (Lençóis Maranhenses, Jericoacara and Iguazu Waterfalls)	120+9 Policies projects

CASA CIVIL PROGRAMA DE PARCERIAS DE POPE

In 2019, 28 auctions have been carried out

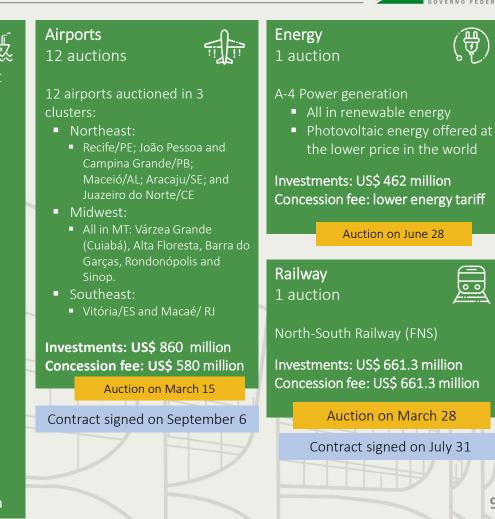
Investment Expectation

US\$ 2.24 bi

Revenues/Bonuses

US\$ 1.44 bi

Ports <u>main</u>	Airport
	12 auct
13 auctions + 1 assessment	12 airpo clusters:
11 liquid bulk terminals3 in Cabedelo/PB1 in Vitória/ES	■ Nort ■ Re
Auction on March 22	Ca M
• 5 in Belém/PA • 1 in Vila do Conde/PA Auction on April 5	Ju. • Mid • All (C
• 1 in Santos/SP	Ga Sir
Auction on August 13	■ Sout
1 Celullose Terminal in Paranaguá/PR	• Vit
Auction on August 13	Investm Concess
1 Solid Bulk Terminal	
Auction on August 13	
1 Assessment – Libra	Contrac
Auction on August 21	
Investments: US\$ 256 million Concession fee: US\$ 199 million	



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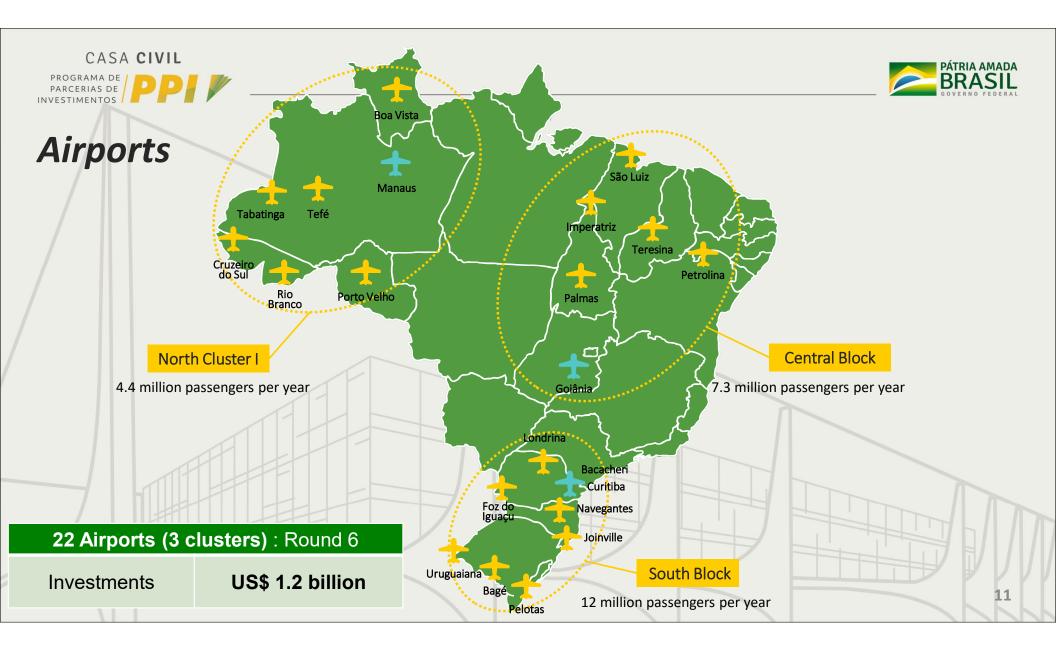
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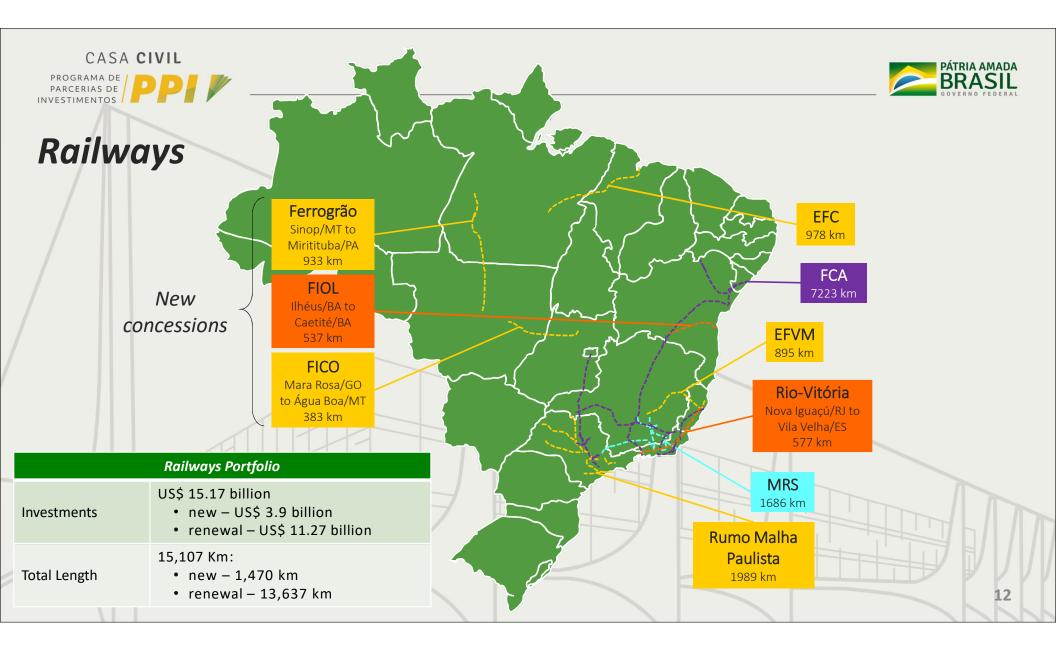
BRASIL

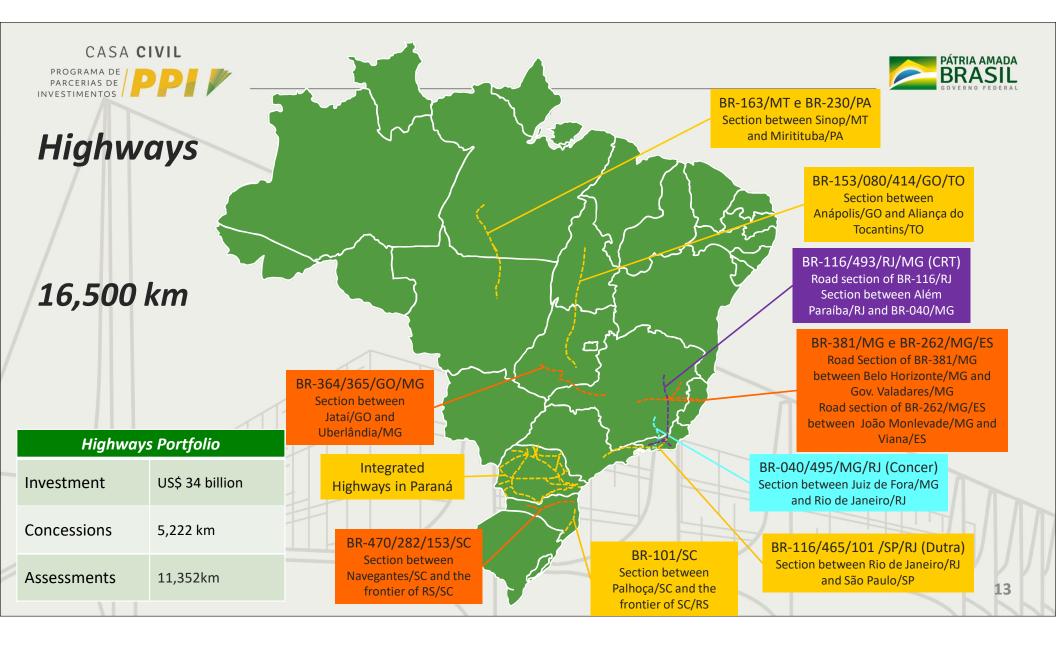
CASA CIVIL PROGRAMA DE PARCERIAS DE PPF //

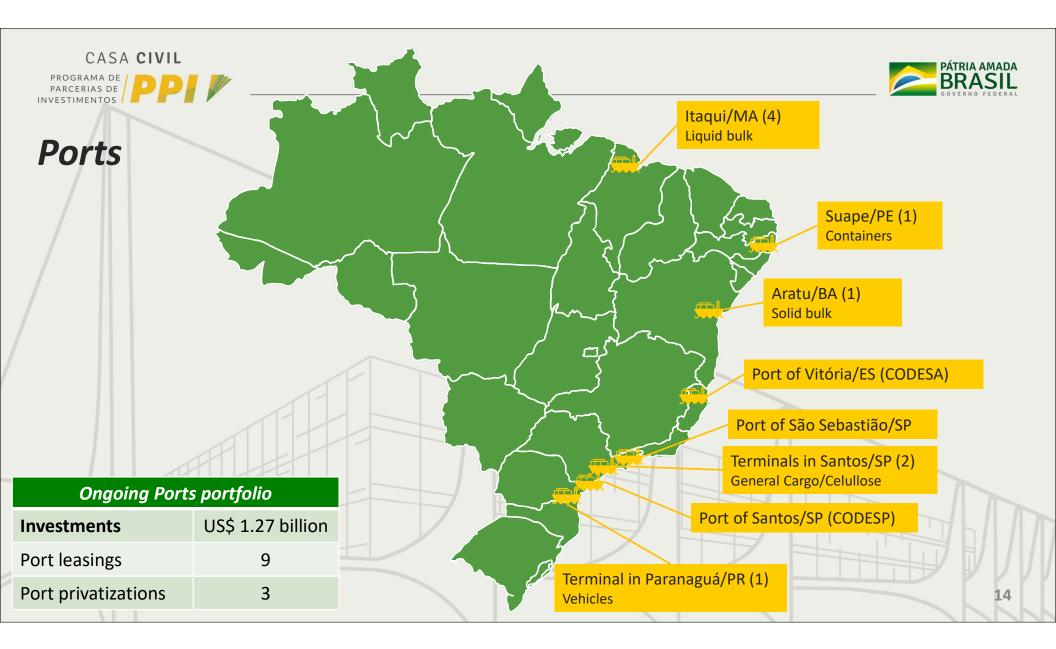
PPI Portfolio

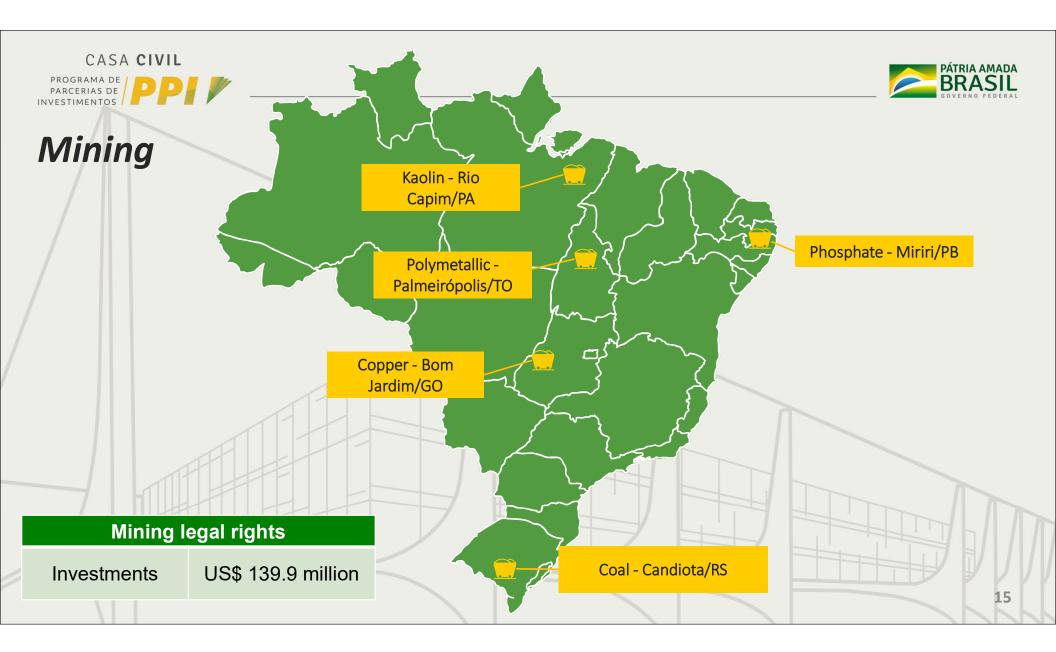


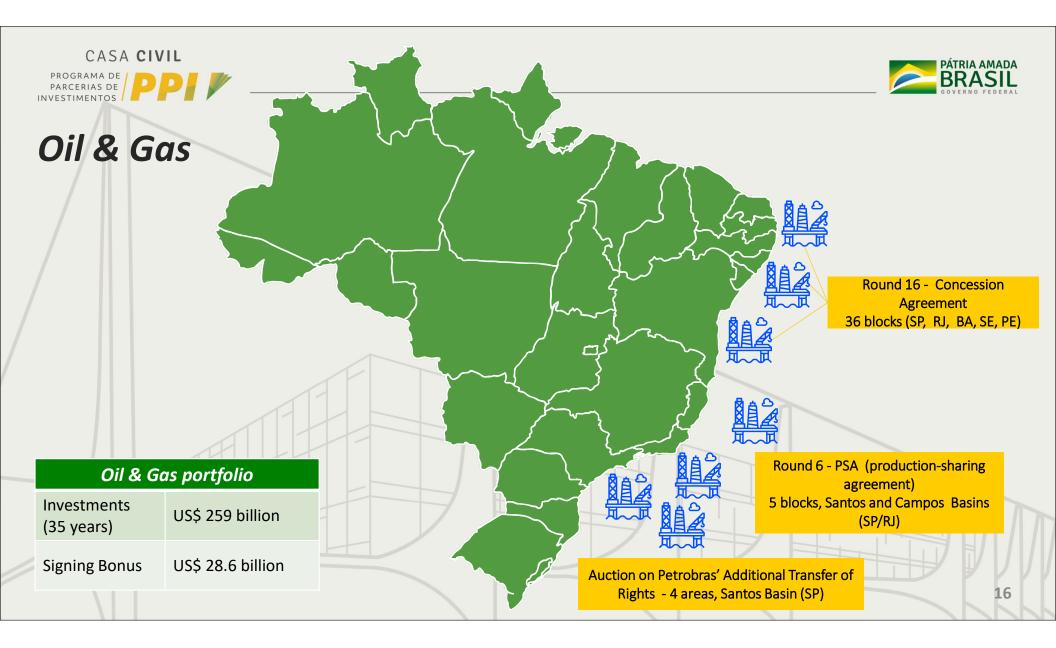




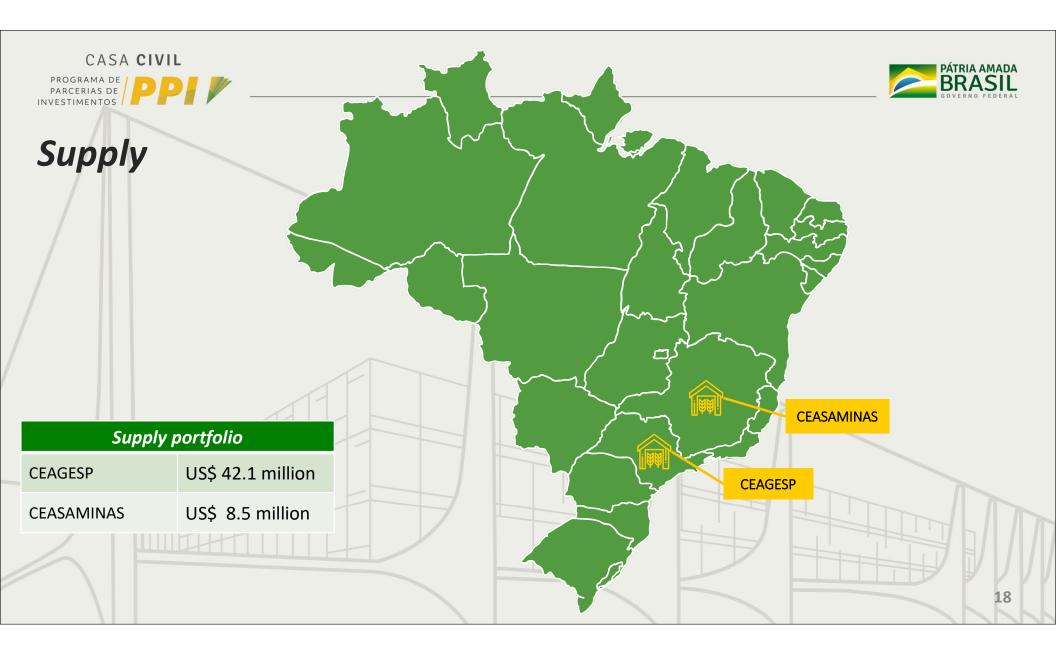






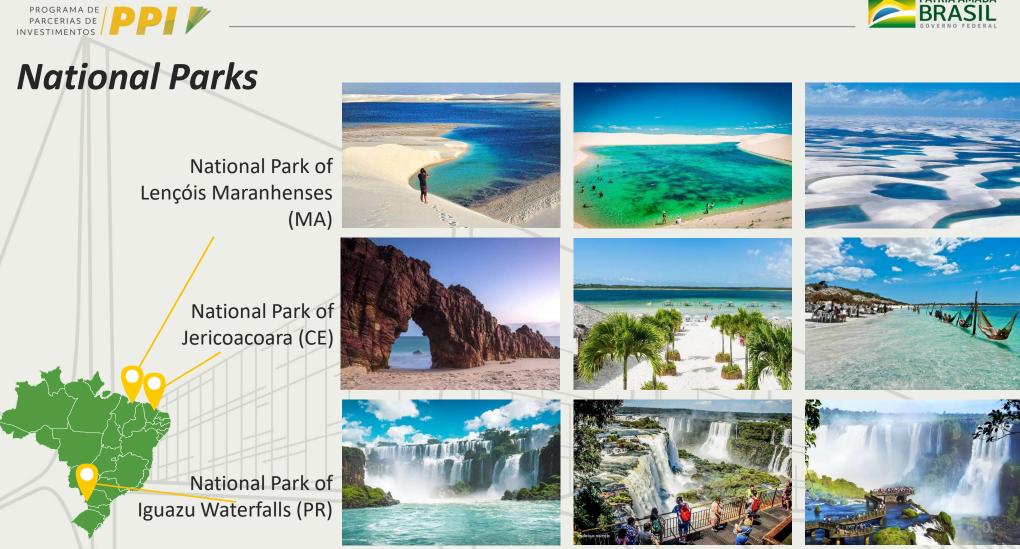












CASA CIVIL



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

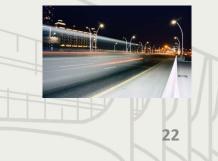
CASA CIVIL

PROGRAMA DE PPP

- 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











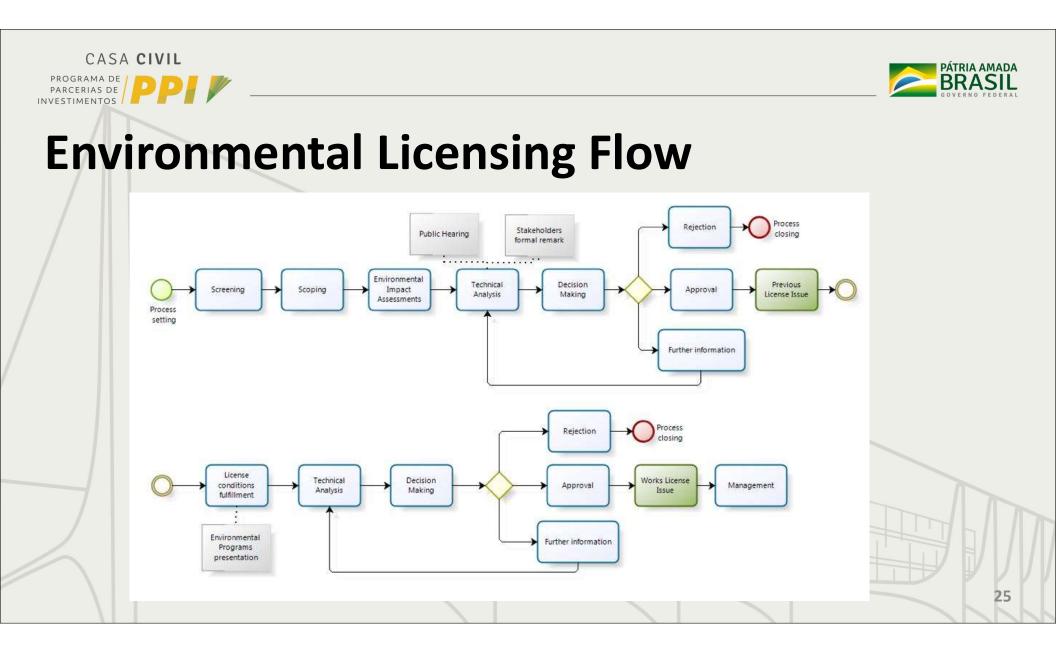
Environmental Licensing

- 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









Highlights





Basic features:

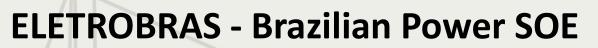
- Site: Angra dos Reis/RJ
- 67.1% of civil works have been accomplished
- Expected investments for accomplishing the works: US\$ 3.91 billion
- Current stage: The Resolution which has qualified Angra 3 in PPI has established an Interministerial Committee through the Decree 9915/2019 to assess the most economically feasible model for the Plant. The Terms of Reference draft for hiring those assessments is in progress.











- 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

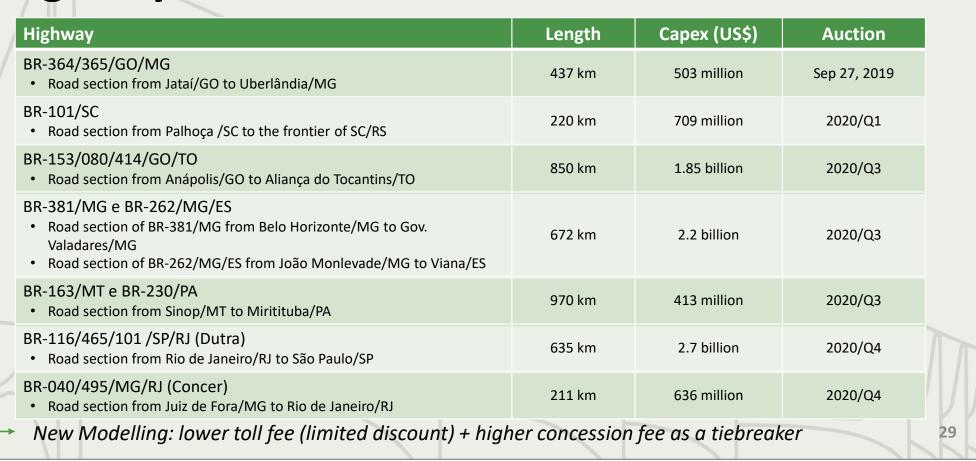
Some data about the company

- 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%



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CASA CIVIL PROGRAMA DE PARCERIAS DE POPUIO POPUIO





 Ferrogrão – Grain Railway – EF-170/MT/PA

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: 11.04%

- 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\$ 366.7 million



Port of Vitória/ES (CODESA) Current stage: Assessments Bidding Notice: 2020/Q4 Auction: 2021/Q1 Investments: US\$ 244.5 million

CASA CIVIL

PROGRAMA DE PARCERIAS DE INVESTIMENTOS



Port of São Sebastião/SP Current stage: Planning Bidding Notice: 2021/Q1 Auction: 2021/Q2 Investments: US\$ 140.6 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



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Brazilian Company of Commuter Trains (CBTU)

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

CBTU

• 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

TRENSUR



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	, I
Ciraha	IP ARACAJU
Same >	IP BELÉM
ANNER ANNER	IP CACHOEI
	IP CAMACA
	IP CAMPINA
MARCEAL PARA MARADI	IP CORUMB
BRASIL	IP FEIRA DE
	IP FRANCO
WING CREATING CREATING	IP NOVA LIN
newha	IP SAPUCALA
NOLIVIA DENA NAMAR COMUL	IP TOLEDO
	RSU BAURU
	RSU COMAR
Antanian Antania	RSU CONVA
	RSU TERESIN
REC CATARDA	SA CRATO
× 6. "9	SA SÃO SIM
	SA VOLTA RE

IP ARACAILI	SE	10
IP BELÉM	PA	dise.
IP CACHOEIRO DE ITAPEMIRIM	35.2	increase.
IP CAMACARI	BA	100
IP CAMPINAS	SP	inter a
IP CORUMBA	MS	1150
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:



PÁTRIA AMADA BRASIL GOVERNO FEDERAL

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CASA CIVIL PROGRAMA DE PARCERIAS DE INVESTIMENTOS

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



CASA CIVIL programa de parcerias de **PPP**



The challenge of universalizing basic sanitation

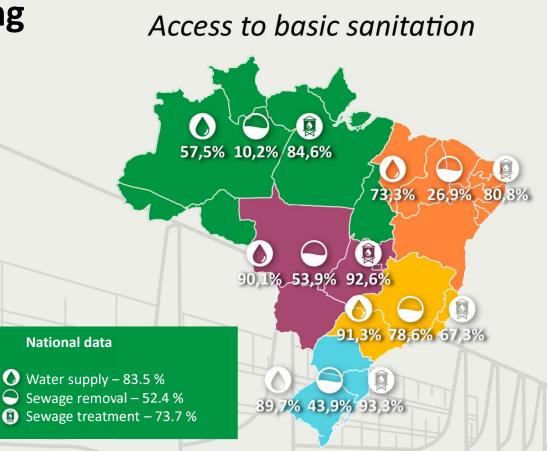
Goals

- 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

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Structuring bankable projects to provide proper services to Brazilians



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

PPI upcoming events (2019)

Highway (auction and notice)

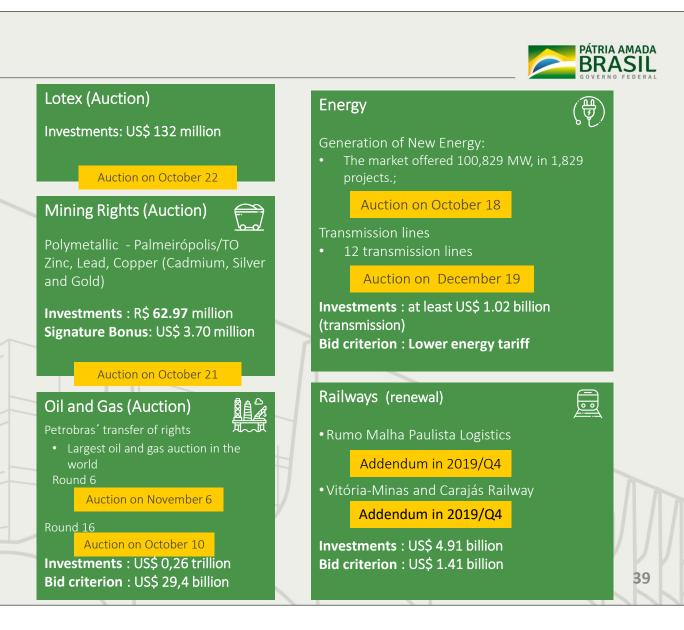
- BR-364/365-MG/GO
- (Section between Jataí/GO and Uberlândia/MG)

Auction on September 27

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

Bidding notice in 2019/Q4

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





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	
	 FIOL (BA) ECA (SE/ES/SP/ 2 in the Port of S 		Railway • Ferrogrão – Grain Railroad (MT/PA)	Central Cluster	
		• 2 in the Port of Santos/SP • 1 in the Port of Suane/PE	Port Terminals 1 in the Port of Aratu/BA 	Energy/Generation • Angra 3 (RJ)	
	Scan the QR Code for further details				

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

