Brazil in context

11th largest economy:
GDP
USD 1.74 trillion

5th largest land area:
8,511,767 km²

6th largest population:
213.9 million people

7th largest FDI destination in 2021
USD 58 billion
Source: UNCTAD

Clean energy system:
85% renewable sources

2nd largest global production of biofuels

Large forest coverage
58% of the national territory

Largest water reserve in the world
12% of world reserves

Greatest biodiversity in the world:
More than 120 thousand species of invertebrates and approximately 8930 vertebrate species

734 mammal species
1982 bird species
732 reptile species
973 amphibian species
1358 marine fish species
The PPI Council is chaired by the Minister of Economy. The Special Secretary is the Executive Secretary of the PPI Council.
**PPI works as a hub for investments**

*Adds on efficiency and value to the process*
- Governance, coordination, monitoring and oversight
- Transparency, dialogue, credibility and predictability
- Well-designed projects
- Technical and legal framework enhancement
Main deliveries 2019/2022

138 auctions/projects

Expected Investments
USD 166 bi

Concession fees
USD 29.5 bi

Premise: Sustainable Development
Transportation projects
Assets auctioned/signed contracts (2019-2022)

<table>
<thead>
<tr>
<th>Transportation modes</th>
<th>Investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port terminals (31)</td>
<td>USD 754 million</td>
</tr>
<tr>
<td>Solids, liquids, general and containerized cargo</td>
<td></td>
</tr>
<tr>
<td>Airports (34)</td>
<td>USD 1.9 billion</td>
</tr>
<tr>
<td>Highways (6)</td>
<td>USD 5.9 billion</td>
</tr>
<tr>
<td>Railways (5)</td>
<td>USD 6.7 billion</td>
</tr>
<tr>
<td>Total (77)</td>
<td>USD 15.34 billion</td>
</tr>
</tbody>
</table>

USD 1 = BRL 5
## Energy, Mining and Oil & Gas projects

Assets auctioned/signed contracts (2019-2022)

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil and gas (9)</td>
<td>USD 124.74 billion</td>
</tr>
<tr>
<td>Transfer of rights</td>
<td>USD 86.89 billion</td>
</tr>
<tr>
<td>6th sharing round</td>
<td>USD 29.34 billion</td>
</tr>
<tr>
<td>16th and 17th concessions round</td>
<td>USD 8.4 billion</td>
</tr>
<tr>
<td>Open Acreage 2 auctions</td>
<td>USD 96.2 million</td>
</tr>
<tr>
<td>Energy - Generation (9)</td>
<td>USD 5.3 billion</td>
</tr>
<tr>
<td>Energy – Transmission (4)</td>
<td>USD 3.16 billion</td>
</tr>
<tr>
<td>Mining</td>
<td>USD 89.2 million</td>
</tr>
<tr>
<td>• CPRM (2)</td>
<td></td>
</tr>
<tr>
<td>• ANM (5)</td>
<td></td>
</tr>
<tr>
<td>Total (29)</td>
<td>USD 133.2 billion</td>
</tr>
</tbody>
</table>

USD 1 = BRL 5

- Phosphate of Miriri (PE/PB)
- Zinc, Copper and Lead in Palmeirópolis (TO)
Other projects
Assets auctioned/signed contracts (2019-2022)

<table>
<thead>
<tr>
<th>Sector</th>
<th>Investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT – 5G (1)</td>
<td>USD 8.42 billion</td>
</tr>
<tr>
<td>Sanitation (9)</td>
<td>USD 8.30 billion</td>
</tr>
<tr>
<td>Public lighting (13)</td>
<td>USD 362 million</td>
</tr>
<tr>
<td>Parks for visitation (3)</td>
<td>USD 85.4 million</td>
</tr>
<tr>
<td>Fishery terminal (4)</td>
<td>USD 120 million</td>
</tr>
<tr>
<td><strong>Total (30)</strong></td>
<td><strong>USD 7.36 billion</strong></td>
</tr>
</tbody>
</table>
Reforms advancing in 2022

- Bill 7063/17 - Concessions and public-private partnerships
- Bill 3178/19 - Oil & Gas sharing agreement
- Bill 2646/2020 - Infrastructure Debentures
- Bill 3887/2020 - Tax reform
- Constitutional Amendment 32/2020 - Administrative Reform
- Bill 414/21 - Modernization of the Electric Sector
- Bill 591/21 - National Post Privatization
- Bill 2159/21 - Environmental License
- Bill 528/2021 – Carbon Market

Reforms carried out since 2019

**2019**
- June: New Regulatory Agencies Framework
- September: Economic freedom law, improving the business environment
- October: New Social Security (largest structural reform in the history of social security in Brazil)

**2020**
- July: New Sanitation Framework: opens the sector for private investments
- December: New Bankruptcy Law

**2021**
- January: Complementary Law 178/2020 establishes triggers for states and municipalities and improvements to the Fiscal Responsibility Law
- February: Autonomy of the Central Bank
- March: Amendment 109 PEC 186-Emergency Aid
- April: New Procurement Law
- July: New Gas Framework
- August: Business Environment Law
- December: New Foreign Exchange Market Law
  - Railways Authorization Law
  - Law to incentive cabotage navigation
Evolution of the investment rate and gross debt in Brazil

Evolution of the GFCF/GDP investment rate in Brazil 2002-2021

Growth of Foreign Direct Investments (FDI's) in Brazil 2020/2021

UNCTAD
ESG Guidelines

**Environmental**
(Renewable energy, management of solid waste/sanitation, reduction of emissions, protection of natural resources)

- Rebalance of the Transportation system (more railways and waterways)
- Concessions for greater protection of natural resources (forests, parks)
- Auctions of energy generation based on renewable sources (hydroelectric, wind, solar photovoltaic and biomass)
- Sanitation concessions and their positive impacts in reducing pollution
- Social and environmental impacts assessment (support to environmental processes)

**Social**
(Public policies, social rights)

- Fostering private investments to expand and improve the provision of public services
- Compliance with the guidelines of Convention 169/1989 of the International Labor Organization (ILO): the right of indigenous and tribal peoples to be informed and previously consulted
- Sanitation concessions and their positive impacts on health and educational indicators

**Governance**
(coordination, control, risk management, transparency)

- Balance in the distribution of risks and responsibilities in concession contracts
- Legal security
- Transparency in project preparation
Current PPI portfolio

**Ports (37)**
- 5 Concession (3 privatizations)
- 28 Port Terminals/Ports
- 1 Concession of waterway
- 1 Concession of an access channel
- 1 Waterway environmental permit
- 1 Tunnel for port access

**Highways (29)**
- 21 projects for concession
- 8 Environmental permits

**Airports (26)**
- 16 Infraero Airports
- 8 regional airports
- 2 airports rebidding

**Railways (8)**
- 3 Contract renewals
- 4 Concessions
- 1 Privatization with concession

**Oil and gas (1)**
- 3rd Cycle of Open Acreage

**Energy (11)**
- 2 Transmission line auctions
- 2 Privatizations (Eletrobras and Nuclep)
- 7 Hydroelectric power plants (env. permit)

**Mineral Rights (10)**
- 6 CPRM’s mineral rights
- 4 bid rounds of ANM available areas

**Regional Development (9)**
- 8 irrigation projects
- 1 water infrastructure Project (PISF)

**National Forests and Parks (28)**
- 19 Concessions of parks and forests for visitation
- 9 Forest concessions for sustainable use

**Tourism (6)**
- 6 Concessions of historical and touristical sites (states of CE, MG, PB, PE, SP and RJ)

**Fishery Terminals (4)**
- 4 Concessions of Public Fishery Terminals

**Supply (2)**
- 1 Privatization (Ceasaminas)
- 1 CONAB (148 warehouses / real state)

**Urban mobility (2)**
- CBTU + Line 2 – Belo Horizonte subway
- Trensurb

**Defense and Security PPPs (1)**
- 1 Vehicle impoundment – Federal Highway Police

**ICT (3)**
- 3 Privatizations (Telebras, Postal Sector and EBC)

**Economy (5)**
- 4 Privatizations (ABGF, EMGEA, Serpro and Dataprev)
- 1 Lottery (Lotex)

**Projects**: 182
Airports concessions

15 Airports (3 blocks): 7th round

<table>
<thead>
<tr>
<th>Block</th>
<th>Investments (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP-MG-MS-PA</td>
<td>1.18 billion</td>
</tr>
<tr>
<td>General-Aviation RJ-SP</td>
<td>1.12 billion</td>
</tr>
<tr>
<td>North II</td>
<td>1.75 billion</td>
</tr>
</tbody>
</table>

2 Airports for Rebidding

<table>
<thead>
<tr>
<th>Airports</th>
<th>Investments (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natal/RN and Campinas/SP</td>
<td>62 million</td>
</tr>
<tr>
<td>Campinas/SP</td>
<td>850 million</td>
</tr>
</tbody>
</table>

8 Regional Airports (AM)

<table>
<thead>
<tr>
<th>Airports</th>
<th>Investments (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>São Gabriel da Cachoeira, Barcelos, Parintins, Maués, Coari, Lábrea, Carauari and Eiruné</td>
<td>76 million</td>
</tr>
</tbody>
</table>
**Ferrogrão**
Sinop/MT a Mirituba/PA 933 km
Inv.: USD 5.04 billion

**FIO2 and FIOL 3**
Caetité/BA – Barreiras/BA; 485 km
Barreiras/BA – Figueirópolis/TO; 505 km
Inv.: USD tbd

**FICO**
Mara Rosa/GO to Água Boa/MT 383 km
Inv.: tbd

**MRS**
1,686 km
Inv.: USD 3.35 billion

**Rumo Malha Sul**
7,223 km
Inv.: USD 2.06 billion

**Malha Oeste**
1,973 km
Inv.: tbd

**FCA**
7,215 km
Inv.: USD 2.76 billion

**Rum Malha Sul**
7,223 km
Inv.: USD 2.06 billion

---

**Railroad portfolio**

<table>
<thead>
<tr>
<th>Investments</th>
<th>USD 19.1 billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>USD 5 billion</td>
</tr>
<tr>
<td>Renewal – USD 8.2 billion</td>
<td></td>
</tr>
<tr>
<td>Privatization – USD 5.88 billion</td>
<td></td>
</tr>
<tr>
<td>Rebidding – to be defined</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Length</th>
<th>21,707 Km:</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>2,306 km</td>
</tr>
<tr>
<td>Renewal – 16,124 km</td>
<td></td>
</tr>
<tr>
<td>Privatization: 1,34 km</td>
<td></td>
</tr>
<tr>
<td>Rebidding – 1,973 km</td>
<td></td>
</tr>
</tbody>
</table>
**Pro-trilhos**

New Railway Authorization Program

Meant to facilitate the operation of rail transport infrastructure by private agents without the need for complex concession bidding procedures

<table>
<thead>
<tr>
<th>Requests</th>
<th>Signed contracts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments</td>
<td>USD 48.16</td>
</tr>
<tr>
<td>Length</td>
<td>20.721 km</td>
</tr>
<tr>
<td>Requests</td>
<td>80</td>
</tr>
<tr>
<td>States</td>
<td>18: ES, MG, MT, MA, SP, MS, PR, SC, PI, PE, DF, GO, BA, PA, TO, RR, RJ, RS</td>
</tr>
</tbody>
</table>
1. BR-158/155MT/PA
   1.135.1 km
   Ribeirão Cascalheira/MT and Marabá/PA

2. BR-135/316/MA
   437.7 km
   Junction BR-135 (to Pedrinhas) – Junction Itaquí/Bacanga;
   Acess to Tirirical Airport – Junction BR-316(B) (Peritoró);
   Junction BR-135(B)/MA-020 (Peritoró) – Junction BR-
   226(B)/343(A) (Division MA/PI) (Teresina/Timon)

3. BR-381/MG and BR-262/MG/ES
   686.6 km
   Section of BR-381/MG between Belo Horizonte/MG and Gov. Valadares/MG
   Section of BR-262/MG/ S between João Monlevade/MG and Viana/ES

4. BR-116/493/RJ/MG (Rio-Valadares) – Auction May 20
   726.9 km
   Section of BR-116/RJ
   Section between Além Paraíba/RJ and BR-040/MG

5. BR-040/495/MG/RJ + BR-040/MG
   (Rio de Janeiro – Ribeirão das Neves)
   473 km
   Section between Rio de Janeiro/RJ and Belo Horizonte/MG

6. Rebuying of BR-101/RJ
   320 km
   Section between Rio de Janeiro and the
   boundary between RJ/ES

7. Rebuying of BR-040/DF/GO/MG
   679.7 km
   Section between Brasilia/DF and Belo
   Horizonte/MG

8. Federal and State highways
   in Santa Catarina
   3,153.4 km

9. Integrated highways of Paraná (filed with TCU)
   3,361.9 km

10. Rebuying BR-163/MS
     1,094 km
     Section between borders
     MT/MS and MS/PR

11. Rebuying BR-60/153/
     262/DF/GO/MG
     1,202 km
     Brasilia/DF – São José do Rio
     Preto/SP – Betim/MG

---

Concession of 6,938 km of
Highways in 4 blocks

**Highways portfolio**

<table>
<thead>
<tr>
<th>Investments</th>
<th>USD 30.9 bi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Length</td>
<td>20,208 km</td>
</tr>
</tbody>
</table>

*TCU*: Brazilian Federal Court of Accounts
### Highways NEXT AUCTIONS (2022)

<table>
<thead>
<tr>
<th>Highway</th>
<th>Length</th>
<th>Capex (USD)</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR-116/493/RJ/MG (Rio-Valadares)</td>
<td>726.9 km</td>
<td>1.84 bi</td>
<td>May, 20th</td>
</tr>
<tr>
<td>Integrated highways of Paraná</td>
<td>3,361.9 km</td>
<td>8.84 bi</td>
<td>Q3/22</td>
</tr>
<tr>
<td>BR-153/158/163/272/277/369/373/376/476/PR and other relevant state highways</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studies for the concession of 6,600 km of Federal Highways</td>
<td>5,710.5 km</td>
<td>8.12 bi</td>
<td>Q4/22</td>
</tr>
<tr>
<td>Center-North lot (2,572.1 km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rio Grande do Sul lot (667.44 km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast lot (2,471 km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BR-040/495/MG-RJ (former Concer) + BR-040/MG</td>
<td>473 km</td>
<td>1.44 bi</td>
<td>Q4/22</td>
</tr>
<tr>
<td>Rio de Janeiro/RJ to Belo Horizonte/MG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BR-060/153/262/DF GO/MG</td>
<td>1,202.1 km</td>
<td>2 bi</td>
<td>Q4/22</td>
</tr>
<tr>
<td>BR-040/DF GO/MG (rebidding – 679.7 km)</td>
<td>679.7 km</td>
<td></td>
<td>Q4/22</td>
</tr>
<tr>
<td>BR-158/155/MT/PA</td>
<td>1,135.1 km</td>
<td></td>
<td>Q4/22</td>
</tr>
<tr>
<td>BR-163/267/MS</td>
<td>1,094 km</td>
<td></td>
<td>Q4/22</td>
</tr>
<tr>
<td>TOTAL</td>
<td>13,283 km</td>
<td>22.16 bi</td>
<td></td>
</tr>
</tbody>
</table>
Integrated highways of Paraná

PROJECT:
• 3,300 km of federal and state highways in Paraná, divided into 6 areas
• Concession term: 30 years

FINANCIAL ASPECTS
• CAPEX: USD 8.84 billion
• OPEX: USD 7.7 billion
• WACC: 8.47%

AUCTION CRITERIA:
Lowest toll rate + increasing additional contribution according to the discount offered

<table>
<thead>
<tr>
<th>Discount</th>
<th>Additional contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 10%</td>
<td>USD 3 million</td>
</tr>
<tr>
<td>From 11% to 17%</td>
<td>USD 12 million</td>
</tr>
<tr>
<td>More than 17%</td>
<td>USD 30 million</td>
</tr>
</tbody>
</table>

STATUS:
• TCU* Assessment ongoing
• Auction should take place in Q2/2022

TCU*: Brazilian Federal Court of Accounts
North-Central Federal Highways

PROJECT:
• 4 lots of federal highways, totaling 2,572,1 kilometers
• Concession term: 30 years

FINANCIAL ASPECTS:
• CAPEX: USD 2,74 billion
• OPEX: USD 2,77 billion
• WACC: 8.47%

AUCTION CRITERIA:
The lowest tariff (limited discount) and highest concession fee will be adopted as a tie-breaker criteria

IMPORTANCE:
The highway sections are important routes for the transport of agricultural production from the Midwestern states, destined for the domestic market and for export.

STATUS:
• Public Consultation concluded on Feb/25/22
• Auction date: Q4/2022

<table>
<thead>
<tr>
<th>Lot</th>
<th>Section</th>
<th>Length (km)</th>
<th>Capex (USD)</th>
<th>Opex (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN 1</td>
<td>BR-060/452 Golânia/GO – Rio Verde/GO – Itumbiara/GO</td>
<td>452.7</td>
<td>624.8 mi</td>
<td>633 mi</td>
</tr>
<tr>
<td>CN 2</td>
<td>BR-364 Rio verde/GO – Rondonópolis/MT</td>
<td>502.8</td>
<td>540 mi</td>
<td>551.4 mi</td>
</tr>
<tr>
<td>CN 3</td>
<td>BR-364 Vilhena/RO – Cuiabá/MT</td>
<td>887.6</td>
<td>762 mi</td>
<td>789.4 mi</td>
</tr>
<tr>
<td>CN 5</td>
<td>BR-364 Porto Velho/RO – Veilhena/RO</td>
<td>729.0</td>
<td>816 mi</td>
<td>798 mi</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2,572.1</td>
<td>2,744 bi</td>
<td>2,772 bi</td>
</tr>
</tbody>
</table>
Ongoing Ports portfolio

<table>
<thead>
<tr>
<th>Investments</th>
<th>USD 6.72 billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port leasings</td>
<td>28</td>
</tr>
<tr>
<td>Privatizations and port concessions</td>
<td>5</td>
</tr>
<tr>
<td>Access channel/hidroway</td>
<td>3</td>
</tr>
</tbody>
</table>

Ports

- **VILA DO CONDE/PA (2)**: Liquid and solid bulk
- **FORTALEZA/CE (3)**: Passengers, liquid and solid bulks
- **PORT OF SANTOS/SP – ASP SANTOS/SP (4)**: Solid and liquid/fuel bulk and containerized cargo
- **SANTOS/SP (4)**: Solid and liquid/fuel bulk and containerized cargo
- **PORT OF SALVADOR/BA – CODEBA SALVADOR/BA (1)**: General cargo
- **ILHÉUS/BA (1)**: Multiple uses
- **PARANAGUÁ/PR (6)**: General cargo, grain and liquid bulk
- **PARANAGUÁ/PR (1)**: Port access channel
- **PORTO DE ITAJAÍ/SC**
- **PORTO ALEGRE/RS (2)**: Solid bulk
- **SÃO FRANCISCO DO SUL/SC (1)**: Grain solid bulk
- **LAGOA MIRIM WATERWAY AND SÃO GONÇALO CHANNEL/RS (1)**: Waterway connecting Brazil and Uruguay
- **ITAGUAÍ/RJ (1)**: Liquid bulk
- **PORT OF ITAJAÍ/SC**
- **PORT OF SÃO SEBASTIÃO/SP**
- **PORT OF SALVADOR/BA – CODEBA SALVADOR/BA (1)**: General cargo
- **ILHÉUS/BA (1)**: Multiple uses
- **PARANAGUÁ/PR (6)**: General cargo, grain and liquid bulk
- **PARANAGUÁ/PR (1)**: Port access channel
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- **PORTO ALEGRE/RS (2)**: Solid bulk
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- **ILHÉUS/BA (1)**: Multiple uses
- **PARANAGUÁ/PR (6)**: General cargo, grain and liquid bulk
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- **PORTO ALEGRE/RS (2)**: Solid bulk
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- **PORT OF SÃO SEBASTIÃO/SP**
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- **PARANAGUÁ/PR (6)**: General cargo, grain and liquid bulk
- **PARANAGUÁ/PR (1)**: Port access channel
- **PORTO DE ITAJAÍ/SC**
- **PORTO ALEGRE/RS (2)**: Solid bulk
- **SÃO FRANCISCO DO SUL/SC (1)**: Grain solid bulk
- **LAGOA MIRIM WATERWAY AND SÃO GONÇALO CHANNEL/RS (1)**: Waterway connecting Brazil and Uruguay
- **ITAGUAÍ/RJ (1)**: Liquid bulk
- **PORT OF ITAJAÍ/SC**
- **PORT OF SÃO SEBASTIÃO/SP**
- **PORT OF SALVADOR/BA – CODEBA SALVADOR/BA (1)**: General cargo
- **ILHÉUS/BA (1)**: Multiple uses
- **PARANAGUÁ/PR (6)**: General cargo, grain and liquid bulk
- **PARANAGUÁ/PR (1)**: Port access channel
- **PORTO DE ITAJAÍ/SC**
- **PORTO ALEGRE/RS (2)**: Solid bulk
- **SÃO FRANCISCO DO SUL/SC (1)**: Grain solid bulk
**Port of Santos/SP (SPA)**
- **Public Consultation:** until March/16
- **Bidding Notice:** 2022/Q4
- **Auction:** 2022/Q4
- **Investments:** USD 3.6 billion (with the immersed tunnel)

**Port of Vitória/ES (CODESA)**
- **Bidding Notice:** JAN/21/2022
- **Auction:** March, 30/2022
- **Investments:** USD 260 million

**Ports of Salvador, Aratu-Candeias and Ilhéus (CODEBA)**
- **Status:** Feasibility assessments
- **Bidding Notice:** 2023/Q4
- **Auction:** 2023/Q4
- **Investments:** under assessment

**Port of Itajaí/SC**
- **Status:** Feasibility studies
- **Bidding Notice:** 2022/Q3
- **Auction:** 2022/Q4
- **Investments:** USD 560 million

**Port of São Sebastião/SP**
- **Status:** Feasibility studies
- **Bidding Notice:** 2022/Q3
- **Auction:** 2022/Q4
- **Investments:** USD 4.6 million

*TCU: Brazilian Federal Court of Accounts*
Irecê basin irrigation perimeter (BA)

FEATURES:
Irecê basin irrigation perimeter is located in the municipalities of Xique-Xique and Itaguaçu da Bahia, 500 km away from capital Salvador.

OBJECT OF THE STUDIES:
Concession of a total area of 51,000 hectares, out of which 31,500 are irrigable, aiming at the implantation of the irrigation infrastructure, the operation and maintenance of this infrastructure and the occupation of the area with agricultural production. Production potential is estimated at 150,000 tons of grains and 200,000 tons of fruit per year, resulting in a gross production value of BRL 900 million / year when the entire area is occupied.

Model: Concession of Real Right of Use
Linning Ministry: Ministry of Regional Development – MDR
Regulator: none
Regulation: defined by contract
Executed investments: USD 240 million (Pumping Station of 10.5 m³/s and 42 km of channels)
Project Capex: USD 308 million
Contract term: 35 years
Auction criterion: highest concession fee
Status: Bidding Notice
Auction: June, 1st/2022
Hydroagricultural Projects and Irrigation Perimeters

The projects aim to expand irrigation services through the development of water infrastructure, such as dams, canals, pumps and water mains. In the case of the hydro-agricultural project, the initiative also aims to provide water supply and energy generation, bringing economic and social development to the poorest regions of the Brazilian semi-arid region.

The partnerships with private agents will make it possible to resume the implementation of these projects, interrupted due to a lack of public investments. The incorporation of new technologies and greater productivity will be a result as well.
National Parks and Forests (19)

1. National Park of Lençóis Maranhenses (MA)
2. National Park of Serra da Capivara (PI)
3. National Park of Ubajara (CE)
4. National Park of Jericoacoara (CE)
5, 6. National Park and Forest of Brasilia (DF)
7. National Park of Serra do Cipó (MG)
8. National Park of Caparaó (MG/ES)
9. National Park of Serra da Canastra (MG)
10. National Park Restinga de Jurubatiba (RJ)
11. National Park of Serra da Bocaina (RJ)
12. National Park of Serra dos Órgãos (RJ)
13. National Park of São Joaquim (SC)
14. National Park of Foz do Iguaçu (PR) – Auction March 22
15. National Park of Serra da Bodoquena (MS)
16. National Park of Chapada dos Guimarães (MT)
17. National Park of Anavilhanas (AM)
18. National Park of Jaú (AM)
19. Forest of Ipanema (SP)
Brazil has the largest tropical forest and the 2nd largest forest area in the world!

The concession projects of National Forests of Iquiri, Humaitá, Balata-Tufari, Jatuarana, Pau-Rosa and Gleba Castanho, all in the state of Amazonas; Três Barras and Chapecó in the states of Santa Catarina; and Irati in the state of Paraná have been qualified by the PPI Council as national priorities.

Payments to the Federal Government by the concessionaires are destined to the states and municipalities where the forests are located, to the National Fund for Forestry Development and to ICMBio - Chico Mendes Institute for Biodiversity Conservation.

Computerized system for managing concession contracts.

Greater preservation of forests, less deforestation, less fires, greater control and a better fight against illegal activities.
Electric power, Oil & Gas and mining

Electric power

2 auctions of transmission lines 2022
(1º Auction/2022: Jun/30)

Oil & Gas

3rd Cycle of Open Acreage: 1068 onshore and offshore blocks
(Auction: Apr/13)

Concession of mining rights

6 CPRM’s Mineral Rights projects

4 ANM’s bidding rounds

<table>
<thead>
<tr>
<th>Investments (USD billions)</th>
<th>Electric power</th>
<th>Oil &amp; Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.16</td>
<td></td>
<td>n/d (permanent offer)</td>
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</table>

<table>
<thead>
<tr>
<th>Investments (USD millions)</th>
<th>Concession of mining rights</th>
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</thead>
<tbody>
<tr>
<td>650</td>
<td>n/d</td>
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## Privatization of Federal Companies

<table>
<thead>
<tr>
<th>Privatizations</th>
<th>Liquidation</th>
<th>Sale of Shares / Capitalization</th>
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</thead>
<tbody>
<tr>
<td><strong>2021</strong></td>
<td><strong>2022</strong></td>
<td><strong>2023</strong></td>
</tr>
<tr>
<td>CEITEC</td>
<td>CBTU-BH</td>
<td>EBC</td>
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<td>emgea</td>
<td>NUCLEP</td>
<td>CODEBA</td>
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<tr>
<td>abgf</td>
<td>Correios</td>
<td>SERPRO</td>
</tr>
<tr>
<td>Eletrobras</td>
<td>Trensurb</td>
<td>DATAPREV</td>
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<tr>
<td></td>
<td></td>
<td>TELEBRAS</td>
</tr>
</tbody>
</table>

The Privatization of Federal Companies involves the sale of shares or capitalization, liquidation, and privatization of various federal companies. The timeline includes privatizations, liquidation, and the sale or capitalization of key companies such as CEITEC, CBTU-BH, NUCLEP, Correios, Trensurb, Eletrobras, EBC, CODEBA, SERPRO, DATAPREV, and TELEBRAS for the years 2021, 2022, and 2023.
Features: holding company comprising Eletrobras CGTEE; Eletrobras Chesf; Eletrobras Eletronorte; Eletrobras Eletronuclear; Eletrobras Furnas; and direct and indirect shareholding in other 136 companies.

Transmission Lines:
76,128.54 Km, being 70,091.89 km with tension > 230 KV

43.54% of total transmission capacity in Brazil

29% of total generation capacity in Brazil

Power generation capacity:
50,648.2 MW

- 125 Power Plants.
- Hydropower: 46,259 MW
- Nuclear Power: 1,990 MW
- Thermal power: 1,695 MW
- Wind: 703.5 MW
- Solar: 0.9 MW
Eletrobras Privatization Schedule

PPI Council Resolution
Basic parameters of the offer
19/OCT

Energy Council Resolution
Price Guidelines for Angra 3
20/OCT

Federal Government Contribution
USD 800 mi in ENBPar
09/NOV

Supply Bank Union
Contracted
11/NOV

PPI Council New Resolution
(ad ref): final details of the Offer
23/DEC

General Assembly
22/FEB

TCU* Decision
Approving the Privatization Conditions
(20-F + Prospect)

Launching of the Offer

Pricing

TCU: Brazilian Federal Court of Accounts
Current PPI pipeline for supporting subnational projects (states and municipalities)

Street Lighting (24)
- FEP (cities): 22
  - Toledo/PR
  - Corumbá/MS
  - Valparaiso de Goiás/GO
  - Crato/CE
  - Colatina/ES
  - Timon/MA
  - Foz do Iguaçu/PR
  - Ribeirão Preto/SP
  - Teixeira de Freitas/BA
  - Ponta Grossa/PR
- BNDES (cities): 2
  - Curitiba/PR
  - Canoas/RS
  - Cachoeiro do Itapemirim/ES
  - Camaçari/BA
  - Barreiras/BA
  - Alagoinhas/BA
  - Araçatuba/SP
  - Itanhaém/SP
  - Ariquemes/RO
  - Nova Iguaçu/RJ
  - Olinda/PE
  - Cities cluster Alto Sertão
  - Fazenda Rio Grande/PR
  - Nova Lima/MG

Wastewater (2)
- FEP (2)
  - Volta Redonda/RJ
- BNDES (1)
  - State of Ceará

Municipal Solid Waste (10)
- FEP (9)
  - Bauru/state of São Paulo
  - Teresina/state of Piauí
  - Cities Cluster Centro-Oeste Mineiro/state of Minas Gerais (34 municipalities)
  - Cities Cluster Comares/state of Ceará (9 municipalities)
  - Cities Cluster Convale/state of Minas Gerais (8 municipalities)
  - Cities Cluster Mogiana/state of São Paulo (20 municipalities)
  - Cities Cluster CI Centro/state of Rio Grande do Sul (32 municipalities)
  - Cities Cluster Oeste Paulista/in the state of São Paulo (6 municipalities)
  - Cities Cluster CEMMIL/ in the state of São Paulo (6 municipalities)
- BNDES (1)
  - Cities of Amapa State

Water Supply and Wastewater Treatment (7)
- BNDES (5)
  - State of Minas Gerais
  - State of Parába
  - State of Sergipe
  - State of Rondônia
  - City of Porto Alegre/RS
- FEP (2)
  - Engenho Maranhão/PE
  - City of S. Gonçalo do Amarante/RN

Health care (3)
- Guarulhos/SP: Municipal Hospital for Children and Adolescents (HMCA)
- Aracaju/SE: PPP for primary health care
- Jaboatão dos Guararapes: PPP for primary health care

Social location (1)
- Recife/PE

Daycare units (3)
- 3 PPPs
  - Teresina/PI (20 units)
  - Recife/PE (40 units)
  - Intermunicipal Cluster/SC

Prisons (2)
- 2 PPPs
  - State of Rio Grande do Sul
  - State of Santa Catarina

Correctional facilities (2)
- 2 PPPs
  - State of Minas Gerais
  - State of Santa Catarina

Projects
- 54
Sanitation projects structured by BNDES

<table>
<thead>
<tr>
<th>Metropolitan Region of Maceió (AL)</th>
<th>Cariacica (ES)</th>
<th>Rio de Janeiro Blockos 1, 2 and 4</th>
<th>Amapá</th>
<th>Alagoas - Blocks B and C</th>
<th>Rio de Janeiro Block 3</th>
<th>Porto Alegre (RS)</th>
<th>Ceará</th>
<th>Paraíba</th>
<th>Sergipe</th>
<th>Rondônia</th>
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</thead>
<tbody>
<tr>
<td>Concession Water and wastewater</td>
<td>Wastewater PPP</td>
<td>Concession Water and wastewater</td>
<td>Concession Water and wastewater</td>
<td>Concession Water and wastewater</td>
<td>Concession Water and wastewater</td>
<td>Concession Water and wastewater</td>
<td>Wastewater PPP</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>Total benefited population</td>
<td>+34 million</td>
<td>Total investment (estimate)</td>
<td>~ USD 14.4 billion</td>
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<tr>
<td>Business model</td>
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<td>Estimded Capex (USD)</td>
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<tr>
<td>Auction date</td>
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<td>Concession fee (USD)</td>
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<td>Status</td>
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<tr>
<td>Estimated Capex (USD)</td>
<td>1.008 K</td>
<td>Auction held (30/SEP/2021)</td>
<td>11.500 K</td>
<td>734K</td>
<td>1.300 K</td>
<td>2.700 K</td>
<td>1.501 K</td>
<td>4.173 K</td>
<td>2.200 K</td>
<td>2.300 K</td>
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<tr>
<td>Auction date</td>
<td>423 K</td>
<td>Auction held (02/SEP/2021)</td>
<td>5,460 mi</td>
<td>620 mi</td>
<td>577 mi</td>
<td>940 mi</td>
<td>435 bi</td>
<td>1,282 mi</td>
<td>800 mi</td>
<td>720 mi</td>
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<tr>
<td>Auction date</td>
<td>514 mi</td>
<td></td>
<td>120 mi</td>
<td>5,460 mi</td>
<td>620 mi</td>
<td>577 mi</td>
<td>940 mi</td>
<td>435 bi</td>
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<tr>
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</table>

More information is available at: https://hubdeprojetos.bndes.gov.br/pt/
Sanitation projects structured by CAIXA - FEP

<table>
<thead>
<tr>
<th>Business model</th>
<th>Benefited population</th>
<th>Capex estimate</th>
<th>Auction date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bauru (SP)</td>
<td>377,000</td>
<td>USD 28 mi</td>
<td>Aug 2022</td>
</tr>
<tr>
<td>Teresina (PI)</td>
<td>865,000</td>
<td>USD 43.4 mi</td>
<td>May 2022</td>
</tr>
<tr>
<td>Consortia Convale (MG)</td>
<td>433,000</td>
<td>USD 26.6 mi</td>
<td><strong>April, 14</strong></td>
</tr>
<tr>
<td>Consortia Comares (CE)</td>
<td>633,000</td>
<td>USD 10 mi</td>
<td>Aug 2022</td>
</tr>
<tr>
<td>Volta Redonda (RJ)</td>
<td>273,000</td>
<td>USD 64 mi</td>
<td>Sept 2022</td>
</tr>
<tr>
<td>São Gonçalo do Amarante (RN)</td>
<td>102,000</td>
<td>USD 24 mi</td>
<td>DEC 2022</td>
</tr>
</tbody>
</table>

For more information: [https://www.ppi.gov.br/Projects-concessoes-e-parcerias](https://www.ppi.gov.br/Projects-concessoes-e-parcerias)
PPI projects to support Municipalities w/ Street lighting PPPs

Projects: 25
Benefited population: 7.7 Mi
CAPEX: 240 Mi
OPEX: 157 Mi

Map Legend:
- Caixa Projects
- BNDES Projects
Next Steps
**Mining rights (9)**

- 6th to 9th rounds of ANM available areas
  - Copper – Bom Jardim de Goiás/GO
  - Limestone – Aveiro/PA
  - Diamonds – Santo Inácio/BA
  - Gypsum – Rio Cupari/PA
  - Kaolinite – Rio Capim/PA

**Electric Power (2)**

- Auctions of power transmission lines: Jun/30 (1)

**Oil and Gas (1)**

- 3rd ANP cycle of the Open Acreage regime: Apr/13

**Regional Development (2)**

- Irrigation Project in Irecê/BA: June, 1st
- Irrigation Project in the Vale do Jequitaí

**Security (1)**

- Federal Highway Police Impoundment Services

**Supply (1)**

- CONAB Warehouses and assets

**Privatizations (10)**

- Eletrobras
- CODESA: Mar/30
- ABGF
- Trensurb
- Correios
- EMGEA
- CBTU/MG + line 2 of BH metro
- Cesasaminas
- Nuclep
- Port of Santos

**Portos (30)**

- 4 Port Terminals in Santos/SP: Mar/30 (STS II)
- 6 Port Terminals in Paranaguá/PR: Mar/30 (PAR32)
- Port of Itajai/SC
- Port of São Sebastião/SP
- 1 Port Terminal in Suape/PE: Mar/30
- 2 Port Terminals in Vila do Conde/PA
- Access channel to the Ports of Paranaguá and Antonina/PR
- 2 Port Terminals in Rio de Janeiro/RJ
- 1 Port Terminal in Salvador/BA
- 1 Port Terminal in Ilhéus/BA
- 1 Port Terminal in Mucuri/CE
- 1 Port Terminal in Itaquí/MA
- 2 Port Terminals in Maceió/AL
- 1 Port Terminal in São Francisco do Sul/SC
- 1 Port Terminal in Rio Grande/RS
- 1 Access tunnel in the Port of Santos/SP
- 1 Port terminal in Itagui/RJ
- 1 Port terminal in Porto Alegre/RS

**Airports (25)**

- 15 Airports in 3 Blocks – 7th Round
  - Block SP-MG-MS-PA (11): Congonhas/SP, Uberlândia/MG, Montes Claros/MG, Uberaba/MG, Campo Grande/MS, Corumbá/MS, Ponta Porã/MS, Santarém/PA, Marabá/PA, Carajás/PA and Altamira/PA
  - North Block II (2): Belém/PA and Macapá/AP
  - General aviation Block RJ-SP (2): Campo de Marte/SP and Jacarepaguá/RJ
- 8 Regional Airports in the state of Amazonas: Parintins, Carauari, Coari, Eirunepé, São Gabriel da Cachoeira, Barcelos, Lábrea and Maués
- 2 Airports (Rebidding)
  - Viracopos/Campinas (SP)
  - São Gonçalo do Amarante (Natal/RN)

**Highways (16):**

- BR-040/495/MG/RJ
- 2153.6 kilometers of federal highways – North-Center lot
- 667.4 km of federal highways – Río Grande do Sul lot
- 2471.6 km of federal highways – Northeast lot
- BR-040/DF/GO/MG– rebidding
- BR-060/153/262/DF/GO/MG
- Integrated highways of PR (6 lots)
- BR-158/155/MT/PA
- BR-163/267/MS
- BR-135/316/MA

**Portos (30)**

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- 1 Port terminal in Porto Alegre/RS

**Railways (4)**

- Ferrogrão
- Contract renewal – FCA railway
- Railway Paraná Oeste S.A. – New Ferroeste
- Contract renewal – MRS railway

**Parks and Forests (17)**

- Forest of Humaitá/AM
- Forest of Castanho/AM
- National Forest of Jatuarana/AM
- National Forest of Pau Rosa/AM
- National Forest of Três Barras/SC
- National Forest of Chapadão do Capibaribe/SC
- National Forest of Irati/PR
- National Forest of Brasilia/DF
- National Park of Iguazu/PR: Mar/22
- National Park of Chapada dos Guimarães/MT
- Lencois Maranhenses/MA
- National Park of Jericoacoara/CE
- National Park of Itaqui/MA
- National Park of Anavilhanas/AM
- National Park of Jaú/AM
- National Park of Serra dos Órgãos/RJ
- National Park of Serra da Bodoquena/MS
- National Park of Jaú/AM
- National Park of Anavilhanas/AM

**Fishery Terminals (4)**

- Santos (SP)
- Natal (RN)
- Cananéia (SP)
- Aracaju (SE)

**Ferry Terminals (4)**

- Santos (SP)
- Cananéia (SP)
- Natal (RN)
- Aracaju (SE)

**Portos (30)**

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**Security (1)**

- Federal Highway Police Impoundment Services

**Supply (1)**

- CONAB Warehouses and assets

**Privatizations (10)**

- Eletrobras
- CODESA: Mar/30
- ABGF
- Trensurb
- Correios
- EMGEA
- CBTU/MG + line 2 of BH metro
- Cesasaminas
- Nuclep
- Port of Santos

**Surfing Terminals (4)**

- Santos (SP)
- Cananéia (SP)
- Natal (RN)
- Aracaju (SE)

USD 70.7 Billion of investments

**Updated on March 17th**
**PPI Projects to Support States and Municipalities (24)**

**Daycare units PPP:** 20 new units in the Municipality of Teresina/PI

2 Prisonal units PPP: Municipality of Blumenau/SC; Municipality of Erechim/RS

1 Correctional facilities PPPs: State of Santa Catarina

2 Wastewater projects: State of Ceará; Municipality of Volta Redonda/RJ

1 Water and wastewater projects: Municipality of Porto Alegre/RS

1 Health: New Municipal Children and Adolescents Hospital of Guarulhos/SP

4 MSW projects: Consortia Convale/MG April/14, Consortia Comares/CE, Municipality of Bauru/SP and Municipality of Teresina/PI

12 Street Lighting:
- Corumbá/MS
- Crato/CE
- Valparaíso de Goiás/GO
- Camaçari/BA April/29
- Nova Iguaçu/RJ
- Jaboatão dos Guararapes/PE March/16
- Cachoeiro do Itapemirim/ES April/29
- Barreiras/BA
- Colatina/ES
- Aiquemes/RO
- Toledo/PR April/29
- Curitiba/PR

**Environmental license (7)**

Prior License for the Dredging of Pedral do Lourenço/PA

Installation License fo Highway BR-080/MT

Installation License for the Highway BR-158/MT belt

Prior License of Highway BR-319/AM/RO

Decision on unlocking the BR-135/BA/MG

Prior License for BR-242/MT (Section between Querência and Santiago do Norte)

Installation license of highway BR 135/MG (Manga/MG - Itacarambi/MG)

**Updated on March 17th**

153 assets

USD 70.7 Billion of investments