

# EMERGING MARKETS FOREIGN DIRECT INVESTMENT STRATEGIES: NEW PATHWAYS TO GREEN GROWTH INVESTMENT OPPORTUNITIES IN BRAZIL

Berlin, September 15<sup>th</sup> 2014

# **TOPICS**



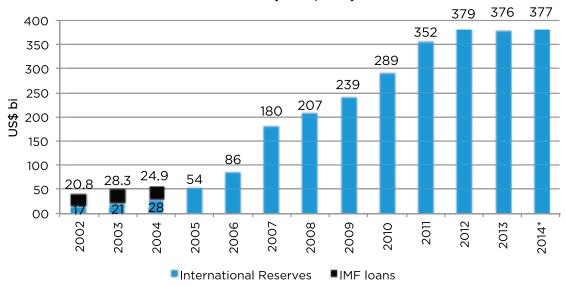
- BRAZIL: OVERVIEW
- OPPORTUNITIES
  - 1. ESTIMATED INVESTMENT
  - 2. OIL & GAS
  - **3. INFRASTRUCTURE**





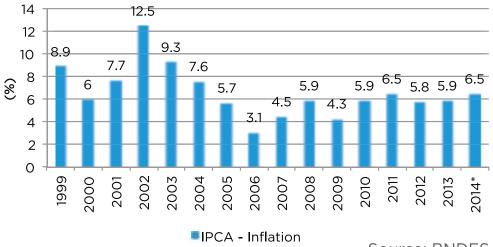
# **MACROECONOMIC**

#### International Reserves (US\$ bi)



Inflation - IPCA (% anual)

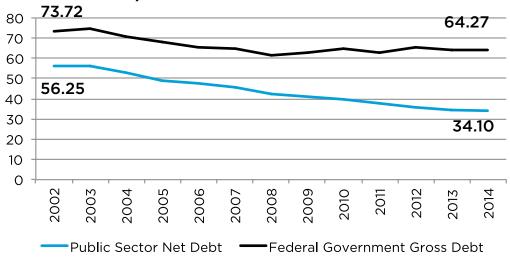
Source: BNDES





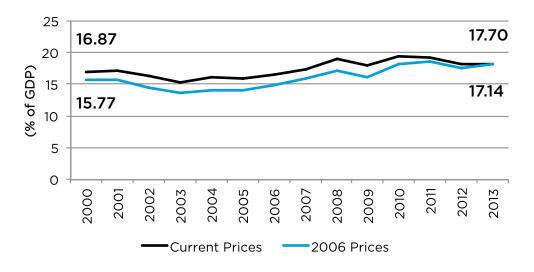
# **MACROECONOMIC**

### Public Debt / GDP



#### **Investment Rate**

Source: BNDES

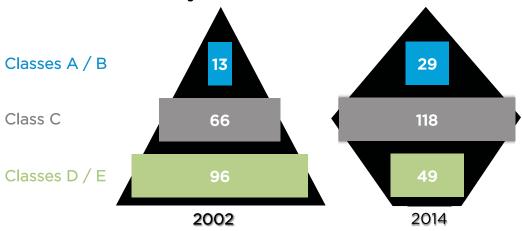




# **SOCIAL**

Source: BNDES

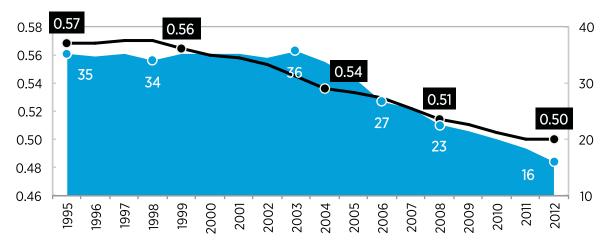
#### **Brazilian Social Pyramid**



Total population: 175 million

Total population: 196 million

#### **Ginni Coefficient**

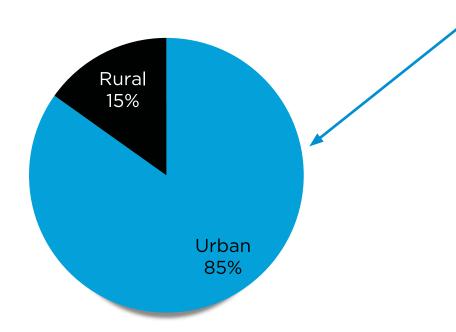


Source: IPEA



# **POPULATION**

# **Brazilian Population (2012)**



RANKING	TERRITORY	URBAN/RURAL	( 1,000,000 PEOPLE)
Brazil		Total	196.87
		Urban	167.01
		Rural	29.86
1º	São Paulo - SP	Total	20.21
2º	Rio de Janeiro - RJ	Total	12.12
3º	Belo Horizonte - MG	Total	5.04
4º	Porto Alegre - RS	Total	4.05
5º	Recife - PE	Total	3.79
6º	Fortaleza - CE	Total	3.78
7º	Salvador - BA	Total	3.71
8º	Curitiba - PR	Total	3.29
9º	Belém - PA	Total	2.18

Source: PNAD - National Survey by Household Samples



# **OPPORTUNITIES**

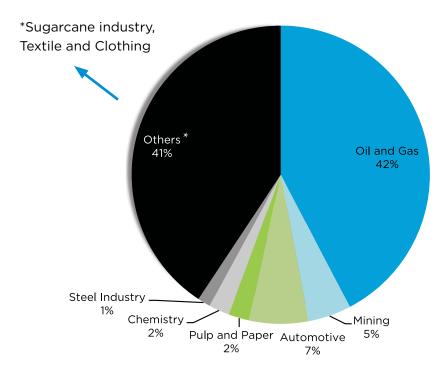


- 1. ESTIMATED INVESTMENTS IN BRAZIL
- 2. OIL & GAS
- 3. INFRASTRUCTURE:
  - ENERGY GENERATION
  - LOGISTICS
    - HIGHWAYS
    - RAILROADS
    - AIRPORTS
    - PORTS



During the period from 2014 to 2017, **investments amounting to US\$ 524.5 billion** are expected in the following sectors: **oil & gas and industrial sector** 

#### Estimated Investment - 2014 - 2017

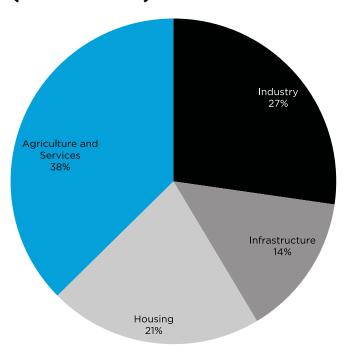


Source: Ministério da Fazenda.

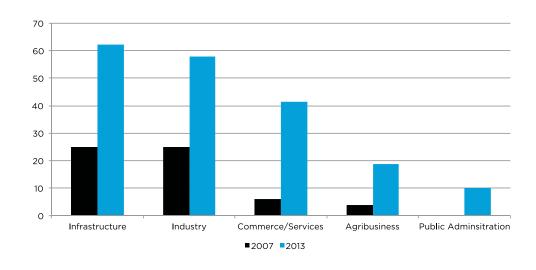
- The Oil and Gas segment concentrates
   42% of the estimated investment in infrastructure
- Mining will be responsible for 5%
- Pulp and Paper segment concentrates
   2% of the total



Estimated Investment (2014 - 2017)



# **Investments from BNDES by Sector**



Source: BNDES

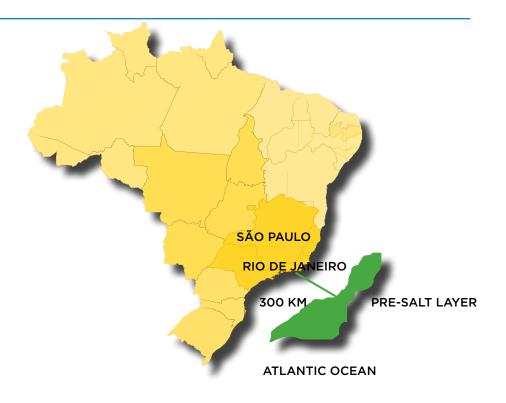
Unit: US\$ billion current

Source: BNDES



## PRE-SALT

- The discovery of new deepwater oilfields (pre-salt) has opened a new frontier for the oil and gas industries
- Development of the pre-salt will bring Brazil to a new position in the oil market by increasing proven reserves and doubling the production capacity by 2020
- Pre-salt development also represents overcoming challenges related to technology, infrastructure and logistics, regulation, taxes and human capital



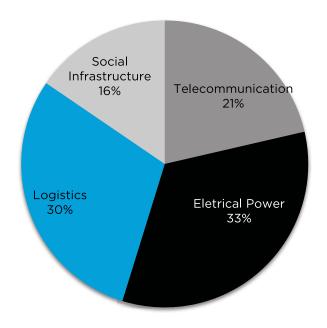
TOTAL INVESTMENT RELATED TO THE OIL AND GAS SECTOR IS ESTIMATED

AT US\$ 400 BILLION OVER THE DECADE.



During the period from 2014 to 2017, **infrastructure investments amounting to US\$ 261.4 billion** are expected, with the following distribution amongst sectors:

# Infrastructure Investment Forecasted for 2014 - 2017



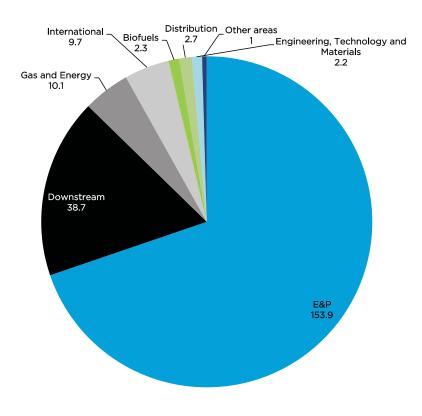
- The main energy-sector projects are hydroelectric plants, followed by nuclear and wind power
- In telecommunications, third-generation mobile service and broadband wireless internet are at the forefront
- Logistics investment is led by the railway segment followed by roadway and port projects

Source: National Bank for Economic and Social Development (BNDES)

# 2. OIL & GAS



#### BMP 2014-2018 (US\$ 220.6 billion)



#### Libra Oil Field

- Massive oil field in the pre-salt area, offshore Brazil
- Estimated reserves: 7.9 18.2 billion barrels (recoverable)



Source: Petrobras Source: Petrobras



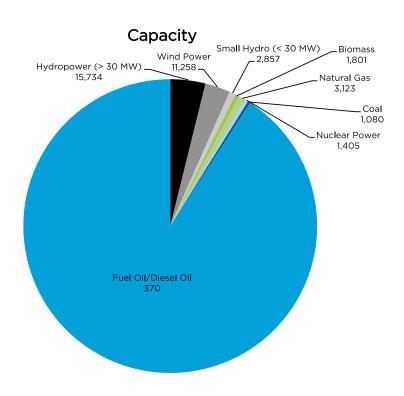
One of the key factors for socioeconomic growth is **INFRASTRUCTURE**:

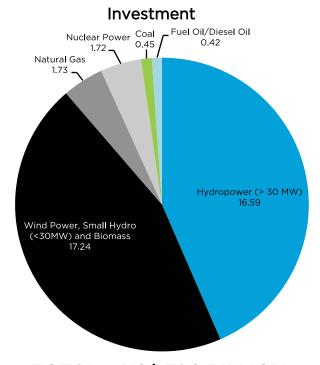
- ENERGY GENERATION
- LOGISTICS:
  - HIGHWAYS
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# **ENERGY GENERATION**

#### **Investment Program in Power Generation (2013-2018)**





**TOTAL = US\$ 31.8 BILLION** 

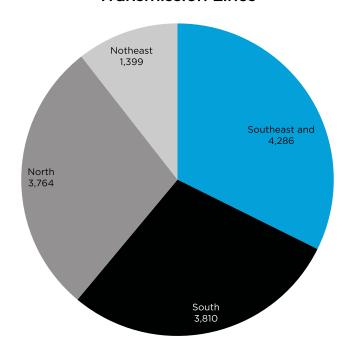
Unit: MW Source: EPE Unit: US\$ billion Source: EPE



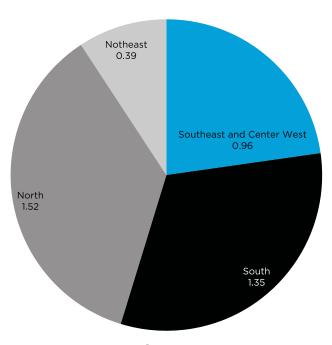
# **ENERGY GENERATION**

#### **Investment Program in Power Transmission (2013-2018)**

#### **Transmission Lines**



#### Investment



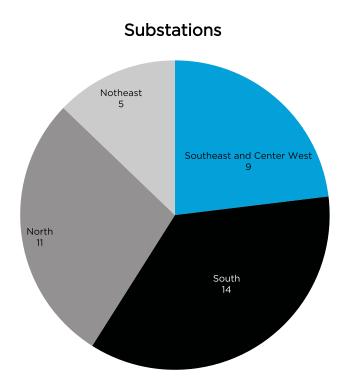
**TOTAL = US\$ 4.2 BILLION** 

Unit: Km Source: EPE Unit: US\$ billion Source: EPE



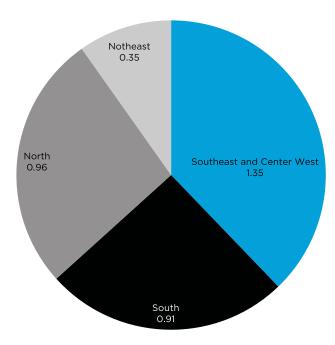
# **ENERGY GENERATION**

## **Investment Program in Power Transmission (2013-2018)**



Unit: Number Source: EPE

Investment



**TOTAL = US\$ 3.7 BILLION** 

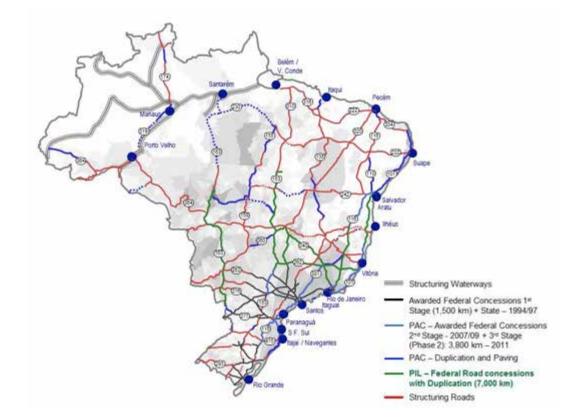
Unit: US\$ billion Source: EPE



# **LOGISTICS**

### **Investment Program in Logistics**

- I. Highways (Aug 15, 2012)
- Concession of 7.0 thousand kilometers of highways
- Estimated investment: US\$ 23.0 billion



Source: EPL



# LOGISTICS

#### **Investment Program in Logistics**

- II. Railroads (Aug 15, 2012)
- Concession of 10.0 thousand km of federal railroads
- Estimated investment: US\$ 45.5 billion for the next 35 years







Railway Açailandia -Vila do Conde Port (Barcarena)

Estimated extension of 457 km

Railway Rio de Janeiro -

Campos - Vitoria

Estimated extension of 551 km

Railway Belo Horizonte -

Salvador

Estimated extension of 1,561 km

Source: EPL



# **LOGISTICS**

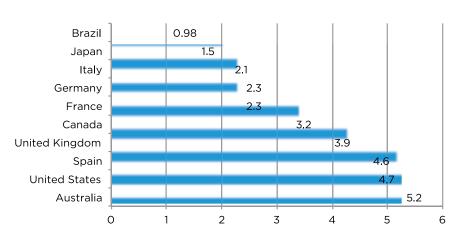
#### III. Airport concessions (2013)

- 2 Airports: Galeão (RJ) and Confins (MG) have been privatized (auction in November 22<sup>th</sup>)
- 270 Regional Airports > Estimated investment: US\$ 3.6 billion

#### **Growth Potential**

# 1.2 1 0.8 0.8 0.6 0.4 0.4 0.2 0 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 Pax per capita

#### Passenger / Population



Source: INFRAERO, IBGE, Estudo do setor aéreo (2009).

#### IV. Port concessions (2013)

Estimated Investment: US\$ 27.3 billion

# **ABOUT FGV**



FGV was founded in December 1944 to help boost the socioeconomic development of Brazil by training administrators for Brazilian private and public enterprise.

Since then, FGV has chosen to broaden its focus to the Economic and Social Sciences, as well as Administration, to become a center of quality and excellence in research and to spread knowledge at the undergraduate, continuing education, executive, specialized, MBA, Master's and Doctorate levers.

The role of FGV in the study, analysis and drafting of Public Policies reinforces it as a reputable Think Tank contributing to Brazil's increasingly important role in the international scene.

