## Incentives and challenges for Foreign Direct Investment in Infrastructure and Strategic Sectors in Brazil

**Wilson Center** 







João Carlos Ferraz

Ministério do Desenvolvimento, Indústria e Comércio Exterior





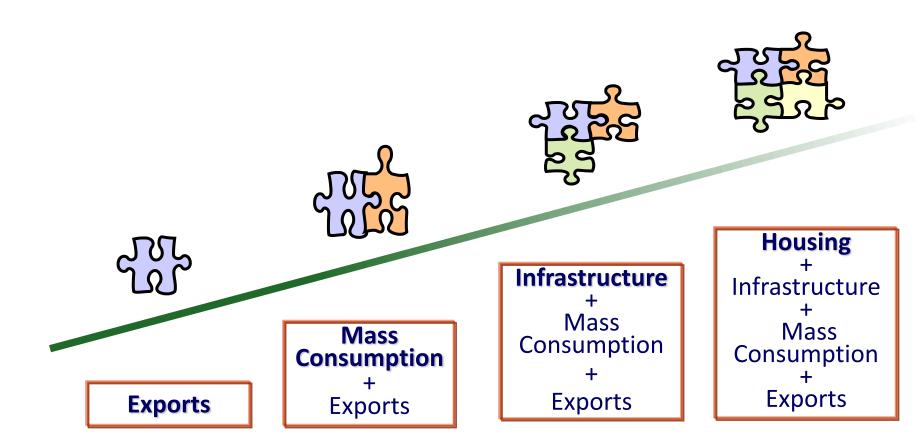


- Sources of dynamism and competences
- Innovation: what is coming up?
- Infrastructure: what has been delivered?
- Investments: what is coming up?
- Financing infrastructure
- Concluding remarks



### Sources of dynamism and competences

# A demand led perspective: sources of dynamism are diversifying...



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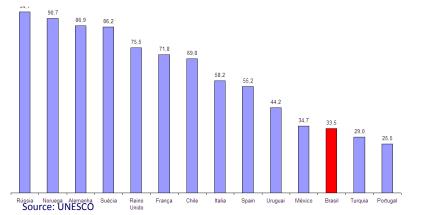
Starting around 2000 2005 2007 2009
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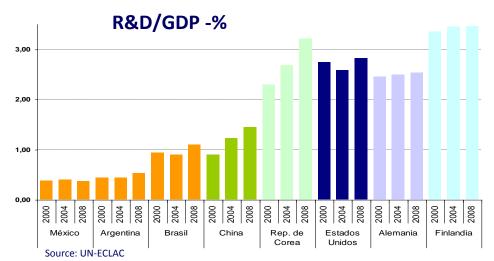
## ... but efficiency is poor and competences a structural weakness

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#### % Workers with at least completed high schooling







### Innovation: what is coming up?

- Mobilization of resources from all relevant federal institution
  - Compromise to sign up contracts until December 31st, 2014

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- Support for innovation plans of corporations; not projects
- Two lines of support: for non specified innovation plans and for Strategic Areas
- **>** Within Strategic Areas, Innovation Priorities
  - Strategic Areas defined in function of potential demand or national interest
  - Intensive consultation to define Innovation Priorities
- For each Strategic Area, Open Call for Innovation Plans to be submitted by stand alone or consortium of firms and research Institutes
- Main Financing Agencies: BNDES and FINEP operate jointly up to contracting an operation

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### **Resources to Strategic Areas**

All launched except Environment

Energy	US\$ 2.8
Oil and Gas	US\$ 2.0
Health	US\$ 1.8
Defense and Airspa	ce <sup>US\$ 1.4</sup>
ІСТ	US\$ 1.0
Agrobusiness	US\$ 1.5
Environment To be launched by July	US\$ 1.0
Sub Total	US\$ 11.5

### **Resources to Generic Efforts**

R&D	US\$ 0.5
SME	US\$ 0.9
Tech Labs	US\$ 1.1
Sub Total	US\$ 2.5

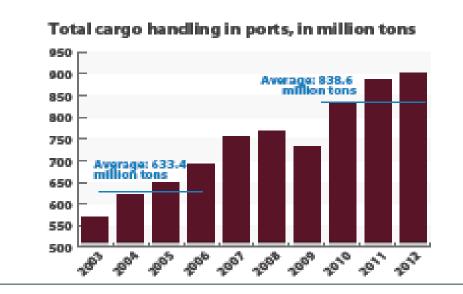
### **Total US\$ 14 billion**

Loans US\$ 10.0 Grants US\$ 2.8 VC US\$ 1.2



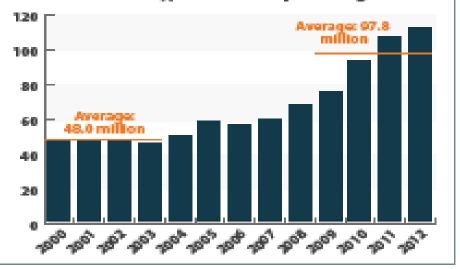
### Infrastructure: what has been delivered

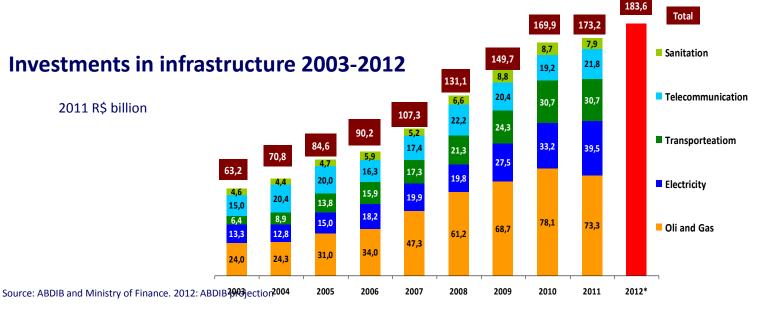
### Demand for infrastructure is rising & investments expanding – not at adequate speed, though



#### Airline industry, in million passengers

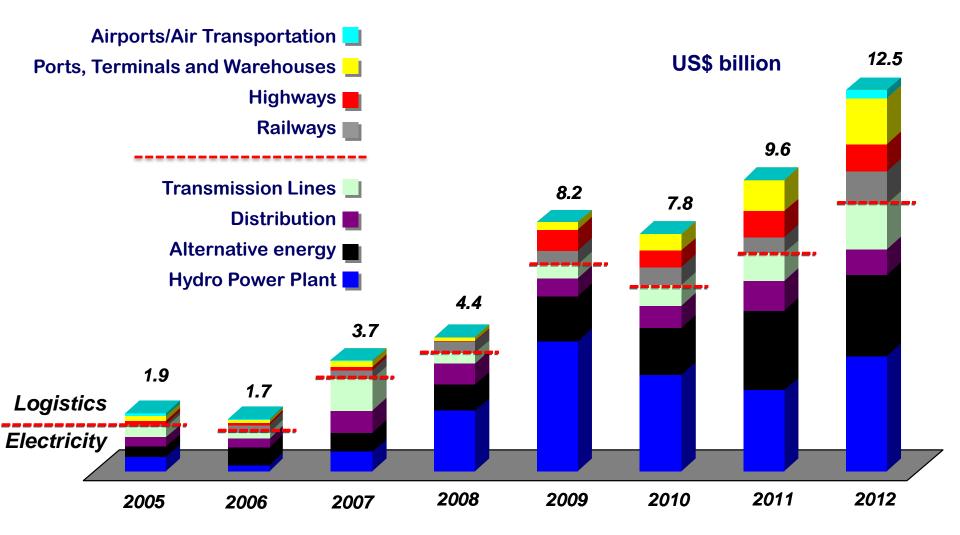
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#### **BNDES'** Disbursements in Electricity and Logistics

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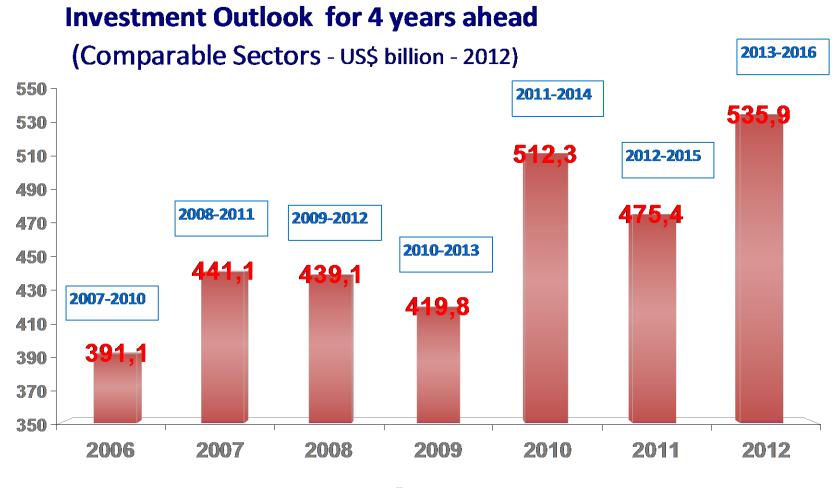






### Investment: what is coming up





Base year

# Investments to reach US\$ 1.9 trillion in the coming 4 years

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Sectors	2008-2011	2013-2016	Accumulated Variation	Growth Rate
	In 2012 US\$ billion		(in %)	Linear Average (in % per year)
Industry	434.4	529.7	21.9	4.0
Infrastructure	184.3	250.8	36.2	6.4
Services	81.5	111.5	36.7	6.5
Housing	305.6	394.9	29.2	5.2
Others Sectors	507.7	664.6	30.9	5.5
Total	1,513.5	1,951.5	29.0	5.2

(\*) Note: The BNDES research on the investment outlook for 2013-2016 covers 66% of the total industrial investments. and 100% of investments in infrastructure. totalizing about 58% of the investments in the economy (excluding residential construction). Agriculture and Services investments are based on queries to Sectoral entities and/or econometric forecast.

### Logistics + 123% in the coming 4 years



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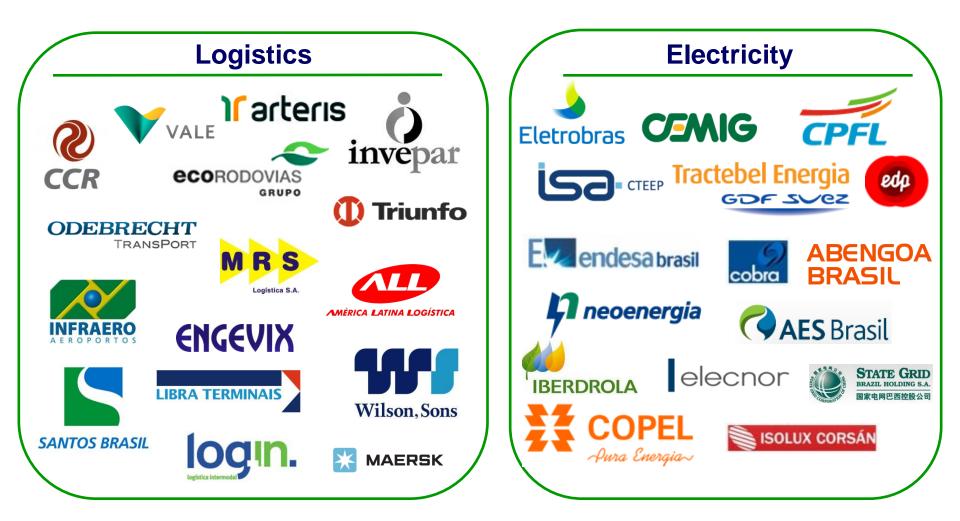
			(US\$ Billion)
Sectors	2008-2011	2013-2016	
			Δ(%)
Infrastructure	184.3	251.0	36.2
Electricity	82.2	85.1	3.6
Telecommunications	43.5	52.2	20.1
Sanitation	17.4	21.7	24.9
Highways	20.5	35.2	71.8
Railways	14.0	39.4	182.6
Harbors	5.0	12.5	150.1
Airports	1.7	4.7	170.9
Logistics	41.2	91.9	123.0

Source: BNDES



## **Financing Infrastructure**

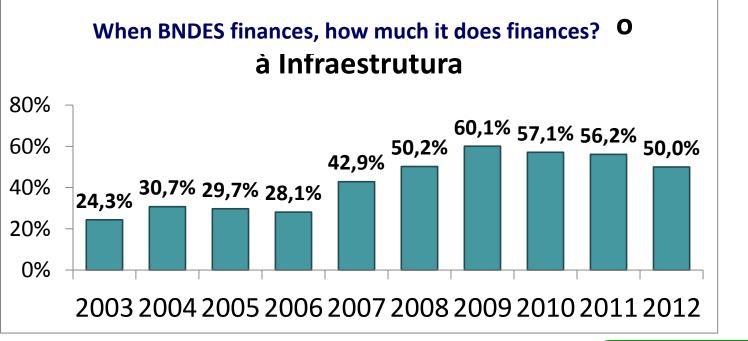
# Brazil has a good base of private –locally and foreign owned- and State owned operators



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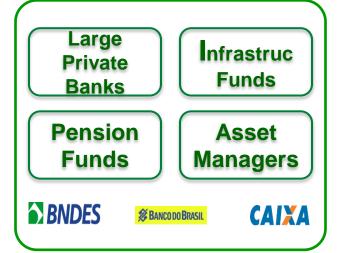
# The "market" for infrastructure financing: the recent past





Source: BNDES

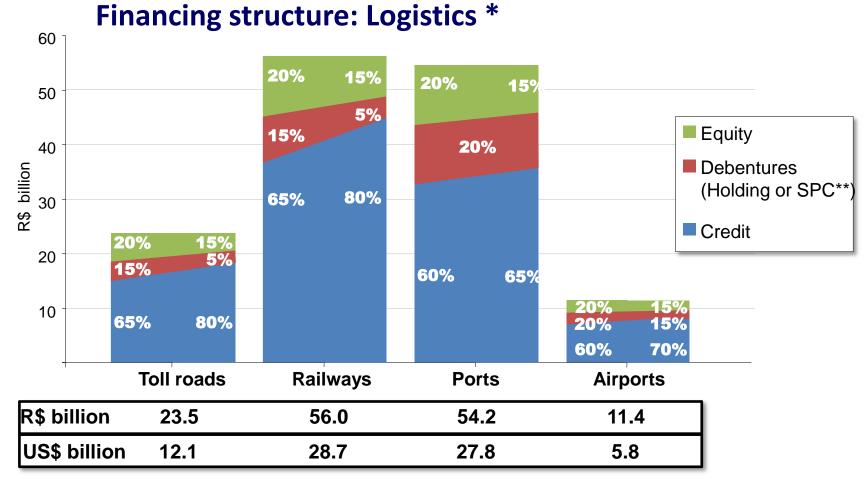
# How much are these players willing to play a more relevant role?



# The "market" for infrastructure financing: the near future







\* Figures according to BNDES forecast

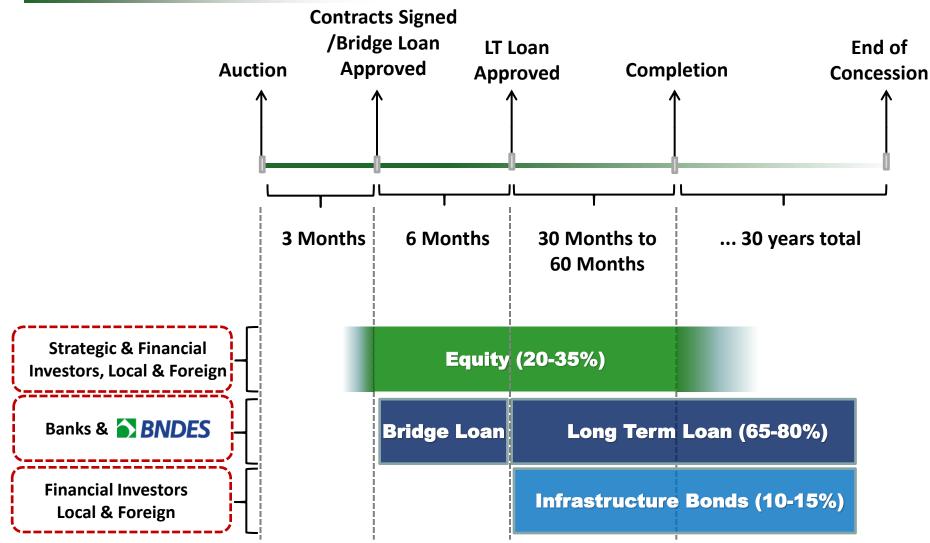
\*\* SPC leverage ≤ 80%

Values in US\$ billion

Source: BNDES



#### Timeline



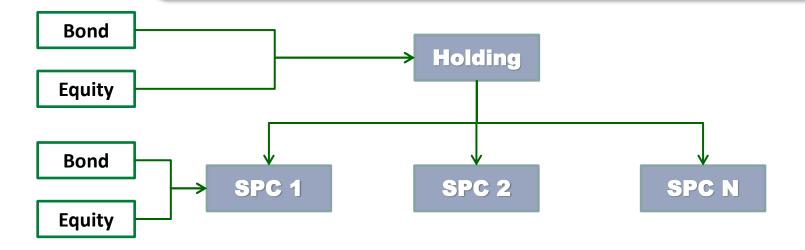
Source: BNDES

### **Infrastructure Financing: Holdings and SPCs**

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Brazilian Infrastructure Bonds and infrastructure investment funds – benefits for non-resident investors: (i) zero Income Tax rate (ii) zero IOF (Financial Operation Tax)



Government Banks/Funds may co-invest with strategic and financial investors, either directly in the SPCs or through the holding company's equity, taking minority equity stake

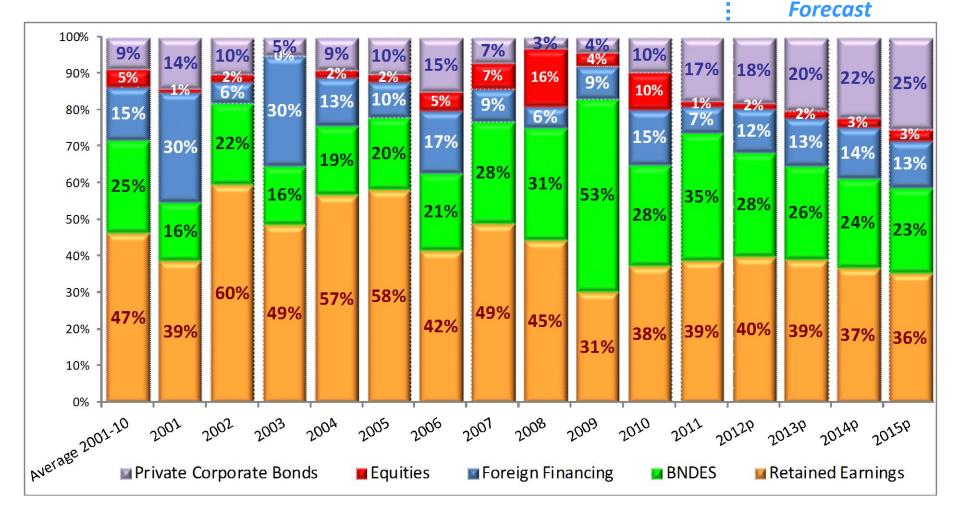


### **Concluding remarks**

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#### Financing sources for Investments in Industry and Infrastructure (2012-2015)



- To understand contemporaneous Brazil is necessary to bring in Albert Hirschman: unbalanced growth is a source of tension but, more importantly, of dynamism;
- Our Control of the second s
- The upcoming frontier is investment: in tangibles, especially infrastructure, and intangibles, especially innovation.
- Opportunities for strategic and financial investors are very real. And... their contribution? To amplify local competition and sources of financing.

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