## Brazil needs transformational investments: is BNDES ready?

(initial thoughts for a forthcoming paper)

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## Structure of the presentation

- Part I Transformational investments and the role of national development banks
- Part II Brazil: infrastructure investments, the growth challenges, and productivity and competitiveness gaps
- Part III BNDES as an agent of structural transformation: strengths and challenges (the case of sustainable infrastructure)

## Part I - transformational investments and NDBs

NDBs should be seen as mission-oriented institutions that can promote transformational investments and help overcoming development bottlenecks and other social challenges

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# We will build on the findings of a recent Brooking/GEGI study

- to what extent are NDBs playing a significant role in domestic development finance?
- to what extent they are involved in infrastructure?
- to what extent are they committed to sustainability?

### We looked at NDBs 6 cases

Table 1 Diversity in the size and infrastructure contribution of prominent NDBs

	<u> </u>						
Country	NDB	Total Assets USD billions	Total Loans USD billions	GDP 2014 USD billions	Total Assets % of GDP	Total Loans % of GDP	Infrastructure financing priority
China	China Development Bank	1664	1281	10357	16.07 %	12.37 %	Limited; 9% of loans
Brazil	BNDES	373	80	2347	15.89 %	3.40%	Yes; 36.7% of loans
India	IFCI Limited	6	3	2051	0.27%	0.17%	Yes
	Industrial Credit and Investment Corporation of India (ICICI)	106	31	2051	5.15%	1.49%	No
	Industrial Development Bank of India (IDBI)	58	20	2051	2.84%	0.96%	No
	Infrastructure Development Finance Company (IDFC)	14	8	2051	0.69%	0.38%	Yes; >85% of loans
	India Infrastructure Finance Company Limited (IIFCL)	6	4	2051	0.31%	0.22%	Yes; 100% of loans
	Total 5 (for India)	190	66	2051	9.27%	3.21%	
South	Industrial Development Corporation (IDC)	10	2	350	2.86%	0.51%	Yes; 34% of new loans
Africa	Development Bank of Southern Africa (DBSA)	6	5	350	1.66%	1.40%	Yes; >90% of loans
Korea	Korea Development Bank	263	136	1410	18.67 %	9.66%	No
Germany	KfW	650	585	3874	16.77 %	15.10 %	Limited; through KfW-IPEX Bank
Algeria	Algeria Fonds National d'Investissement	9	7	214	4.43%	3.22%	Yes; >90% of loans
Angola	Angola Banco de Poupannca e Credito	2	1	129	1.78%	0.73%	No
Nigeria	Bank of Industry	3	3	574	0.59%	0.52%	Limited to Telecommunication sector

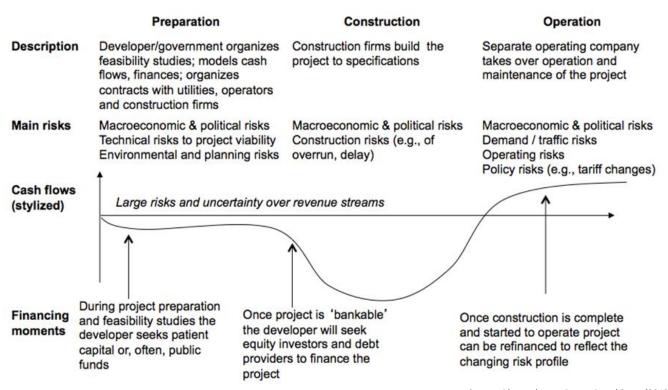
Source: Authors' computation using respective NDB Annual Reports

## Focus on sustainable infrastructure as a transformational investment

- Infrastructure investments have one of the highest income and job multipliers among all the potential investments
- 2. Sustainable infrastructure investments are **technology-intensive**, creating a frog-leaping effect on several parts of industries
- 3. Help overcome **known development bottlenecks** in
  energy provision, transportation and
  urban mobility, increase productivity
  and competitiveness
- Are considered to be a key element to accomplish the 17 sustainable development goals



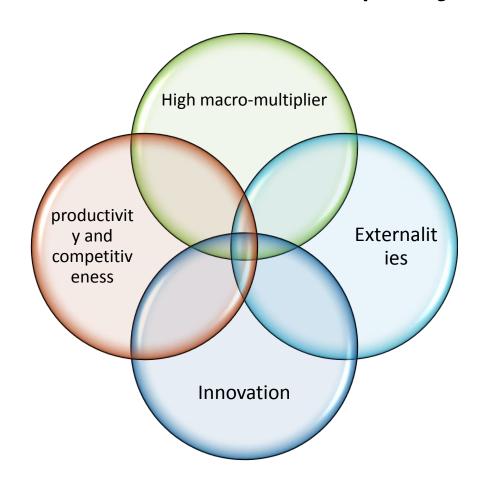
## These investment carry significant riskmanagement challenges in life cycle



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# But the analysis can be applied to other transformational projects



# Conclusions that can be extrapolate to our analysis of BNDES (1); NDBs

- 1. Ate mission-oriented institutions; therefore their strategies and policies should be integrated into a national development strategy, articulating with focal ministries and agencies
- 2. Should have significant comparative advantages in:
  - Project origination and development
  - Better understanding potential social and environmental risks
  - Understanding technological and financing constraints
  - Promoting projects that that greater local social and development impacts

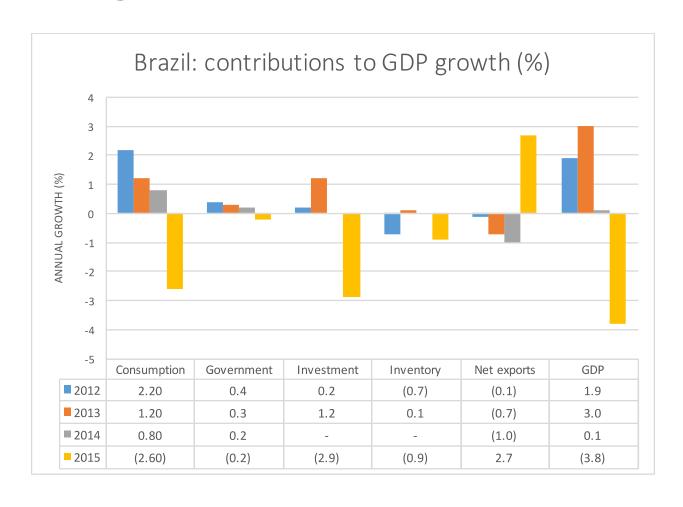
# Conclusions that can be extrapolate to our analysis of BNDES (2); NDBs

- 4. Normally deal with transformational investments (e.g. infrastructure) but some recurring market failures (e.g. SMEs)
- 5. Mandates should evolve according to changes in societal needs; need to mainstream <u>exit and market enhancing strategies</u>
- 3. NDBs can facilitate innovative financial engineering, coordinating with private financial institutions and promoting the development of new instruments

# Part II — Brazil: why infrastructure?

Infrastructure is only one type of transformational investment. Brazil needs other ones (e.g. education and public services).

# Brazil has significant short-term challenges



## But the crisis has long-term roots

#### • E.g.:

- Downward trend of industrial investments that generates a lagging factor productivity
- Very sophisticated, but short-termist private financial institutions; shallow capital markets; and public financial sector
- Significant infrastructure and logistics gaps, contributing to near-to-the-ground factor productivity and low competitiveness

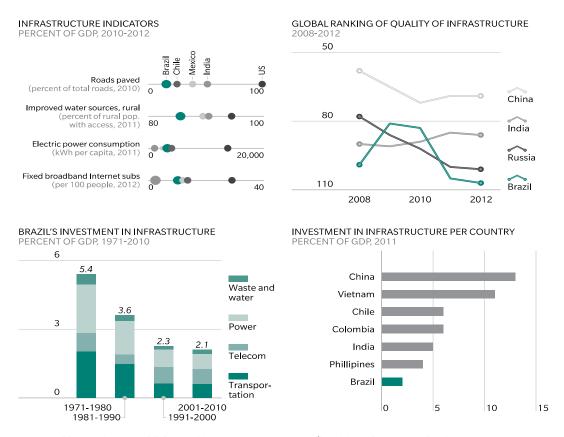
# The decline of public investments in infrastructure led to enormous gaps

3,5 2,5 0,5 Private sector Public sector- Federal Government Public sector- States enterprises and authorities

Figure 3-5: Trends in public and private infrastructure investments in Brazil.

Giambiagi and Castelar Pinheiro (2012), Frischtak (2011) and Inter.B (2014)

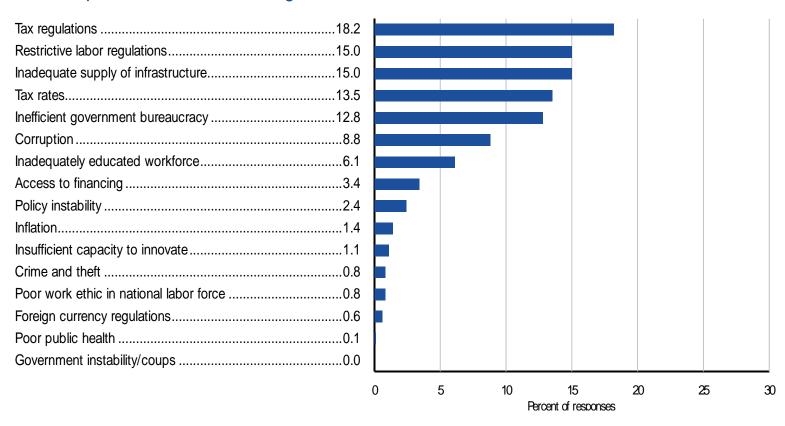
# Infrastructure: significant bottleneck for sustained growth



Source World Economic Forum, Global Competitiveness Report 2013-2014; Brazilian Ministry of Finance; Credit Suisse

## And for productivity and business

#### The most problematic factors for doing business



## And competitiveness

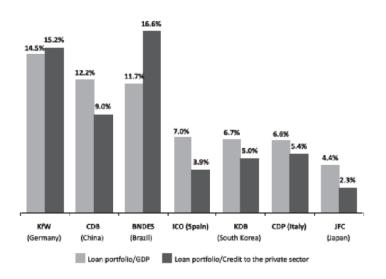
#### Gobal Competitiveness Index

	Rank (out of 144)	Score (1–7)
GCI 2014–2015	•	
GCI 2013–2014 (out of 148)		
GCI 2012–2013 (out of 144)		
GCI 2011–2012 (out of 142)		
Basic requirements (34.2%)	83	4.4
Institutions	94.	3.5
Infrastructure		
Macroeconomic environment	85.	4.5
Health and primary education		
Efficiency enhancers (50.0%)	42	4.5
Higher education and training		
Goods market efficiency		
Labor market efficiency		
Financial market development		
Technological readiness		
Market size	9.	5.7
Innovation and sophistication factors (15.8%	)56	3.8
Business sophistication	•	
Innovation		

# Part III – BNDES and structural transformation: strengths and challenges

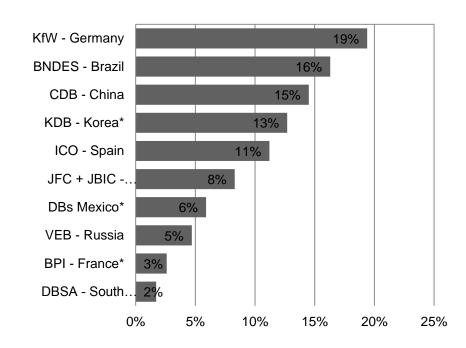
# One of the largest and most efficient NDBs

Figure 4. DFI Loan Portfolio and Representativeness - 2013 (%)

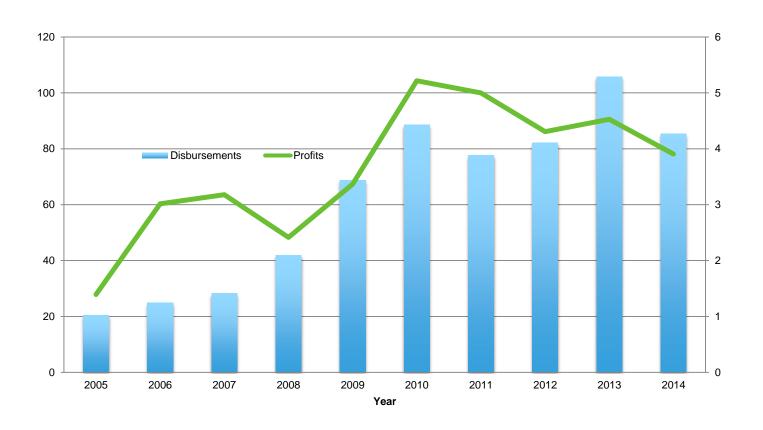


Source: Além and Madeira (2015).

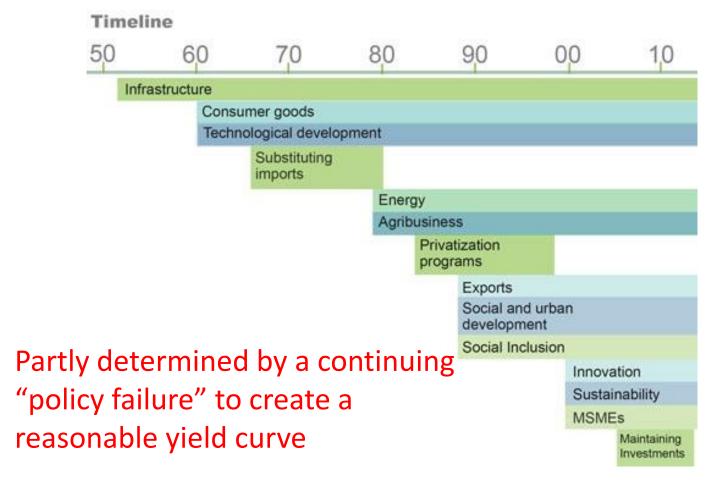
Graph 2.1 - Relative size of some of the largest NDPs (assets/GDP in 2012)



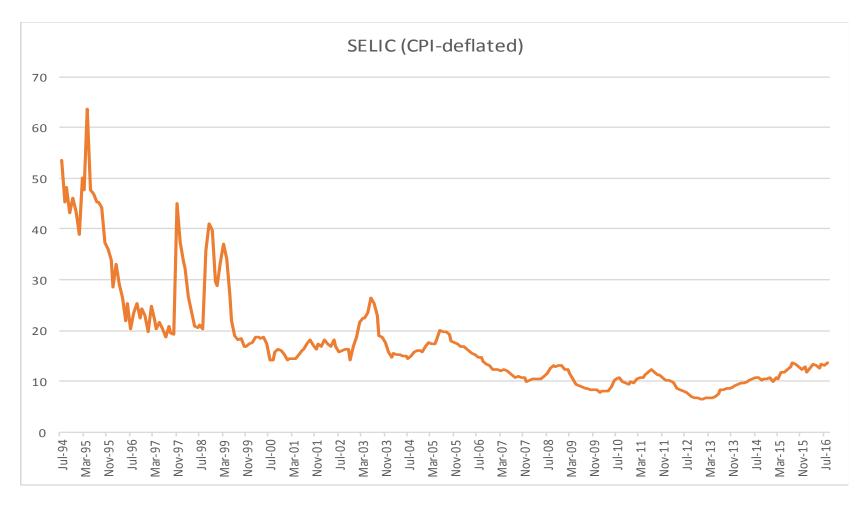
# BNDES expansion in the recent past has been extraordinary



## BNDES: overlapping mandates

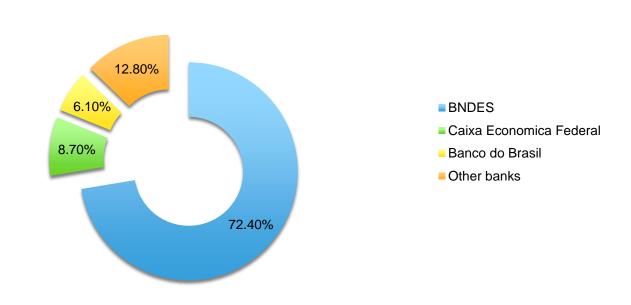


## Policy failure: example 1

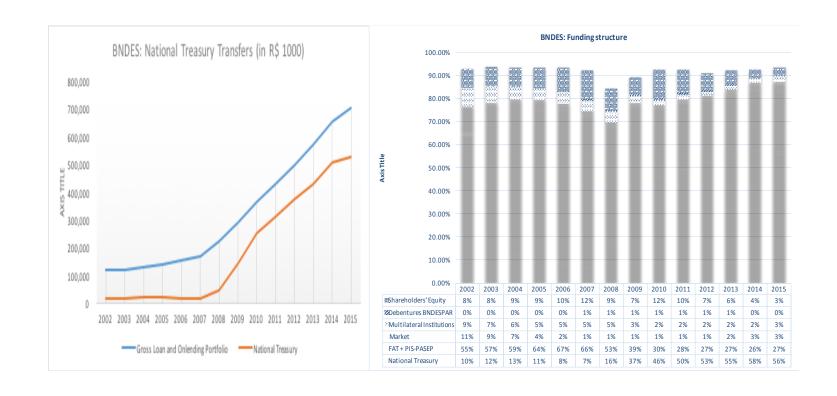


## Policy failure 2: no private longterm credit

Graph 3-2: BNDES: participation in loans to the private sector with maturity higher than 3 years



# Policy failure (3): funding became increasingly dependent on semi-fiscal sources



# Policy failure (4): attempts to crowd-in private resources moving, but slowly

- Infrastructure debentures in Brazil were created in 2011 as a way to improve funding sources for projects in an environment of widening fiscal constraints. The bonds are exempt from income taxes for retail investors.
- Infrastructure bonds have performed relatively well. Local issuers have already sold more than 15 billion reais (\$3.8 billion) of the instruments in the local market. This amount, while significant, is minor when compared to total country-wide investment needs.

<u>Some</u> challenges of BNDES in supporting transformational investments to be addressed in the paper (1)

#### 1. Engagement in national and subnational development strategies, but

- National and subnational governments still to define it
- Private sector divided, and incapable of putting together
- Public opinion still divided

#### • 2. Involvement in project origination and development, but

- Internal capabilities challenges
- Coordination with national and international productive investors

<u>Some</u> challenges of BNDES in supporting transformational investments to be addressed in the paper (2)

#### 3. Funding structure and selectivity, but

- Dependency on semi-fiscal resources create "political economy" challenges
- Domestic interest rate structure still inhospitable
- Intl funding too risky given currency risk

#### 4. Leveraging and "crowding-in" capacities, moving but

- Private long-term sources scarce
- Institutional investors still concentrated in short-term bonds and now some in trouble
- Regulation in Brazil extremely biased towards a risk-averse investing behavior