

India: Infrastructure Finance in Global Perspective

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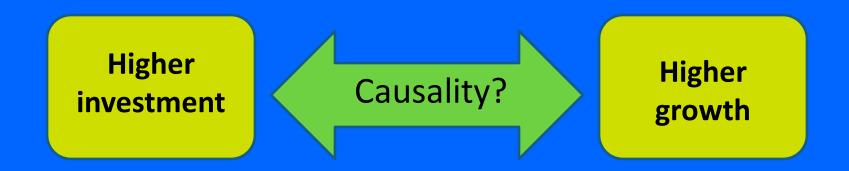
Outline

- Cross-country study: what are the lessons?
- Case studies
- Implications for India

Based on James P. Walsh, Chanho Park & Jiangyan Yu, "Financing Infrastructure in India: Macroeconomic Lessons and Emerging Market Case Studies," IMF Working Paper WP/11/181 (August 2011), http://goo.gl/jdG3D

Cross country results

- Data: for 105 advanced & emerging economies, 1980-2009 (power & roads)
 - Investment booms: what was the impact on macroeconomic variables: growth, fiscal deficit, CAD, financial sector variables?
- Growth is higher during investment booms
 - But what causes what?



Cross country results, continued

> Fiscal variables

 Revenue improves, and spending is often reallocated, during investment booms. Deficits do not deteriorate significantly.

Current Account Deficit (CAD)

- Electricity: no major change to CAD
- Roads: not financed by domestic savings



Cross country results, concluded

- > Financial sector variables
 - Bond markets tend to grow, and/or bank lending expand, during investment booms:
 - But again, what causes what?





Implication: infrastructure investment can be accommodated in a growing financial system; it need not crowd out other sources of finance



Brazil: Private finance with public development bank

Energy

- Elétrobras globally integrated, but private companies reliant on BNDES (public development bank).

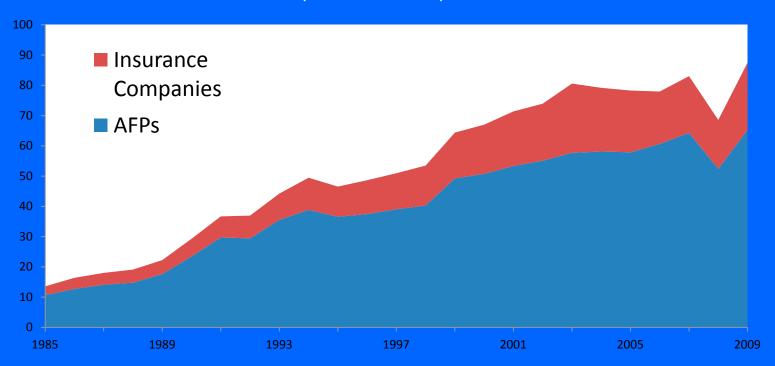
Roads

 Concessions, then PPPs. Bond issuance, MDB finance, even FDI, but BNDES still important.



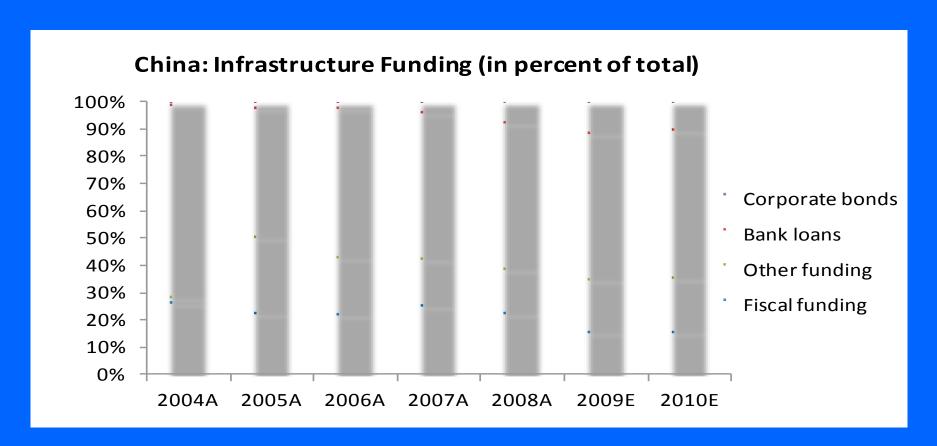
Chile: pension & insurance supported bonds and equity

Chile: Assets of Insurance Companies and AFPs (Percent of GDP)





China: also bank dominated



Growing bond market, but often with government guarantees



Korea: Evolution over time

Highly developed financial sector

Corporate bonds, liquid equity markets

Infrastructure traditionally public-dominated

- PPPs only in 1994; amended in 1999
- Now private finance, including debt funds, around
 20 percent of total

Policy Implications for India

- > Also a bank-led model
 - ➤ But RBI right to worry about asset-liability mismatches and concentration risks
- Need to deepen bond markets
- Government must think carefully about taking on contingent liabilities, given high public debt
- Very important to develop pension scheme, given demographic dividend

Thank you



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www.imf.org/india: on India