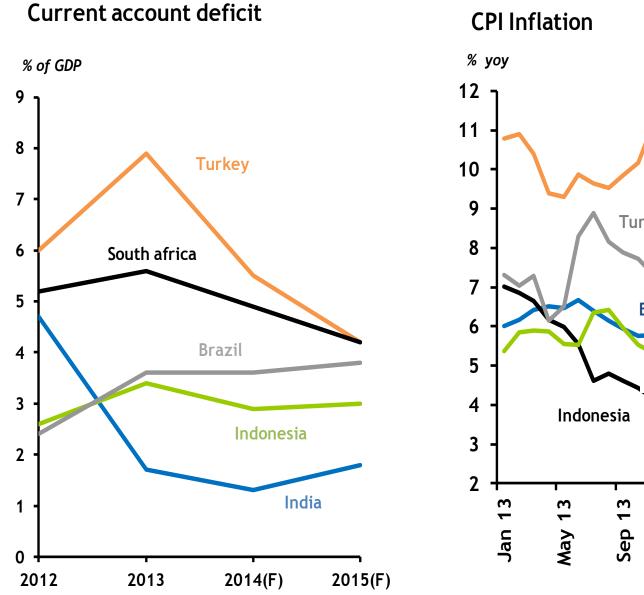
# Macroeconomic constrains to financial sector development

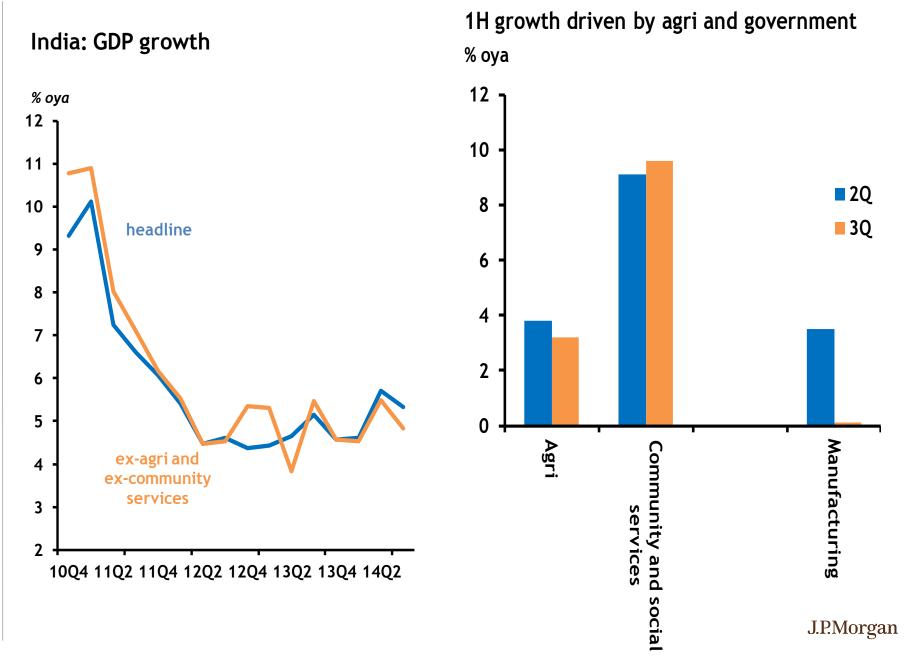
Sajjid Chinoy (91) 22-6157- 3386 sajjid.z.chinoy@jpmorgan.com Presentation3

### Macro-stability at last



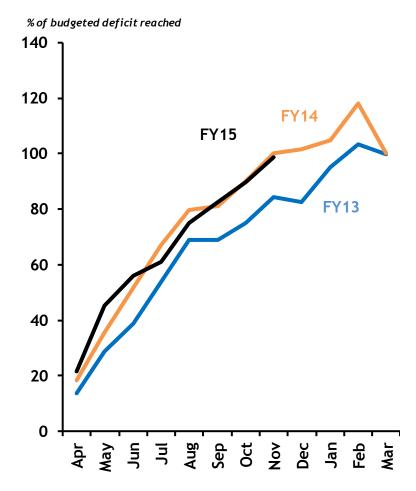
Turkey India Brazil South Africa Jan 14 May 14 Sep 14

### ...but growth remains in a funk

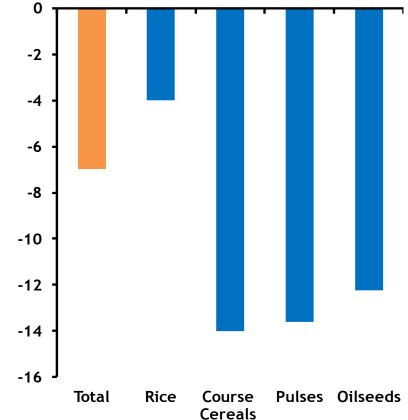


### ...and agri and fiscal drags are on their way

#### Fiscal deficit



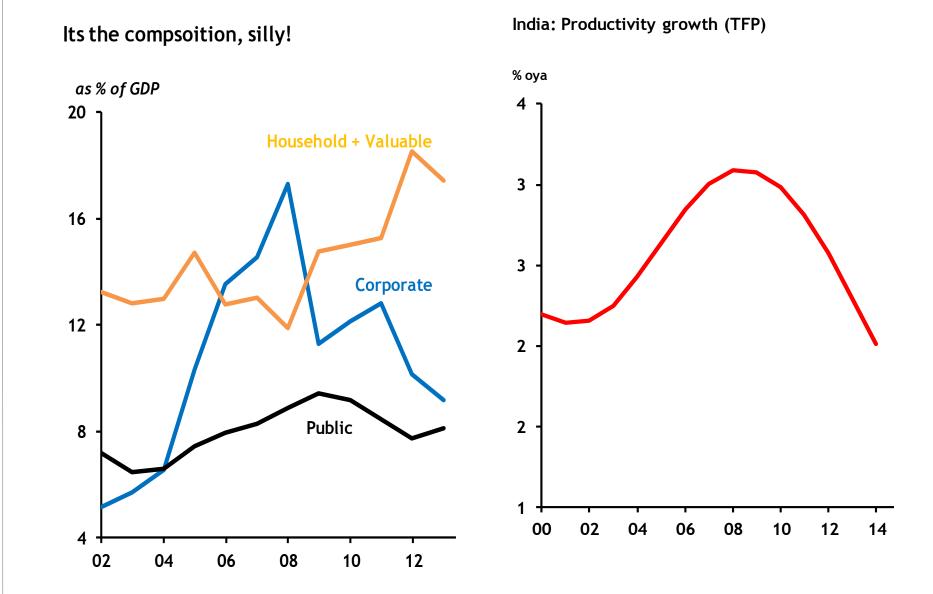
#### Kharif crop: first advance estimates



% y-o-y growth

Source : CSO, CEIC, JPM Calculations

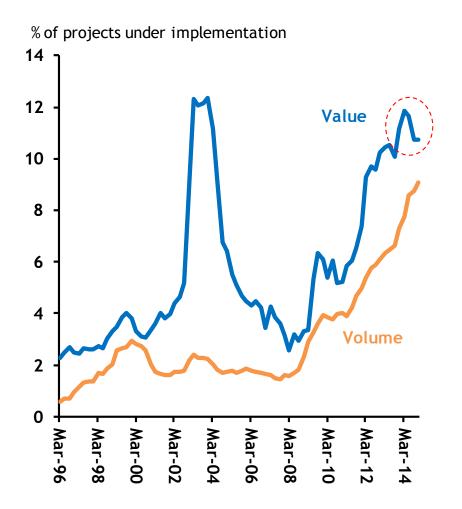
### Private investment remains the key



Source : CSO, CEIC, JPM Calculations

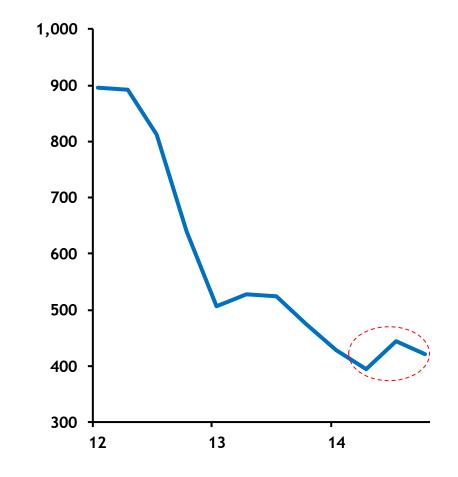
# Implementation bottlenecks are the key; green shoots?

#### **Stalled Projects**



#### Project starts

No of projects announced



## Almost half the slowdown due to implementation bottlenecks and associated loss of confidence

Decomposition of Slowdown from 2010 to 2013		
	ppts	
Actual Growth Slowdown (ex agri, com serv)	695.0	
Slowdown that can be explained	660.0	
percent explained by	(%)	
Slowing Trading Partner Growth	10.0	
Higher Oil Prices (\$)	11.0	
Real Interest Rates	35.0	
Implementation Bottlenecks (proxied by stalled projects)	28.0	
Investor Confidence (proxied by projects starts)	16.0	
Supply Bottlenecks and investor confidence	44.0	

## But are we ready to finance a recovery in capex?

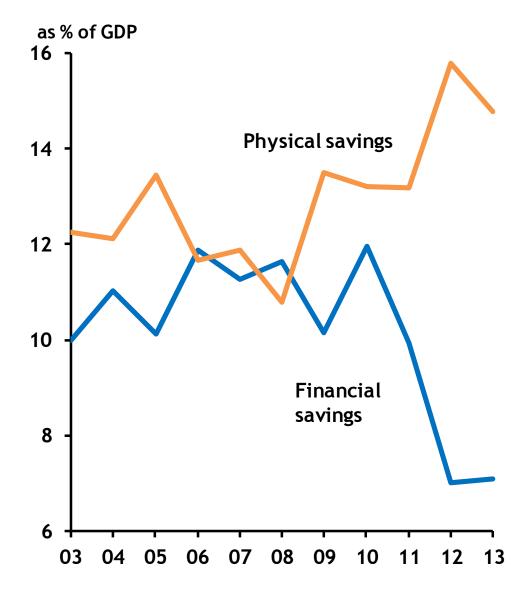
• How good a job is the financial system currently doing of "allocative efficiency"?

- When infrastructure projects are cleared, will they be easily financed?
- Can a capex recovery be financed from domestic savings?
- Is financial stability an issue?
  - Is there a build-up of underlying vulnerabilities?

Are segmented markets, and the absence of a bond-currency-derivative market nexus, responsible?

## Symptom 1: A financial disintermediation post-Lehman

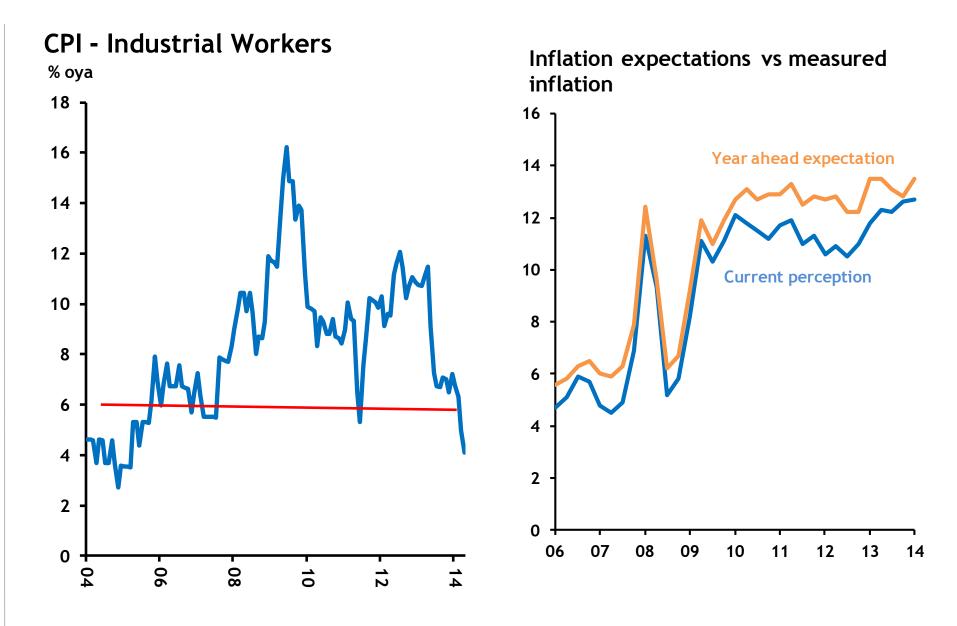
#### Household savings



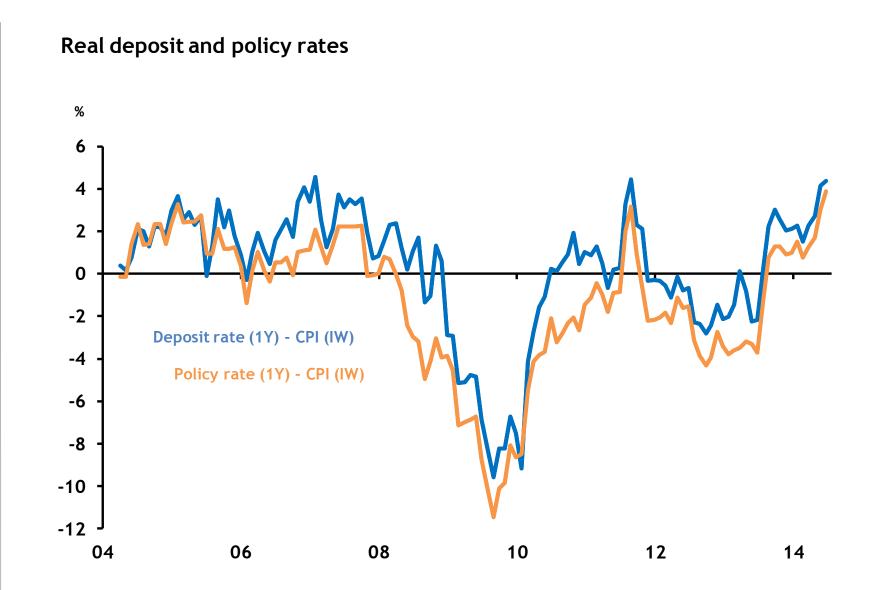
 Both "access"
(financial inclusion) to financial assets and "attractiveness" of assets are drivers

 But the latter is a secular phenomenon and cannot explain sharp drop-off in recent years

# Driver 1: Stubbornly high inflation and inflation expectations...

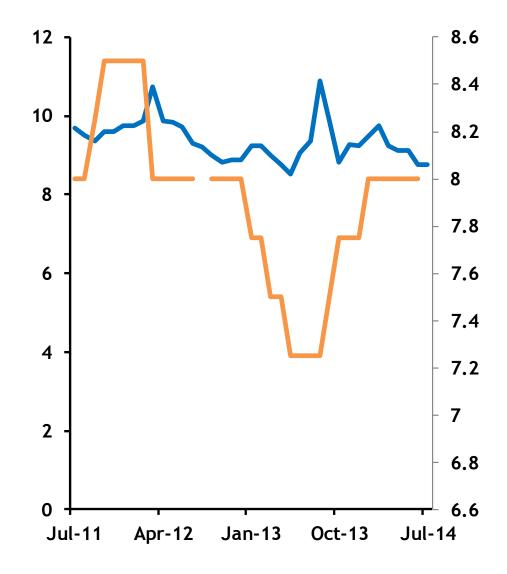


# Resulted in consistently negative real rates of return on financial assets



# And resulted in asymmetric monetary transmission

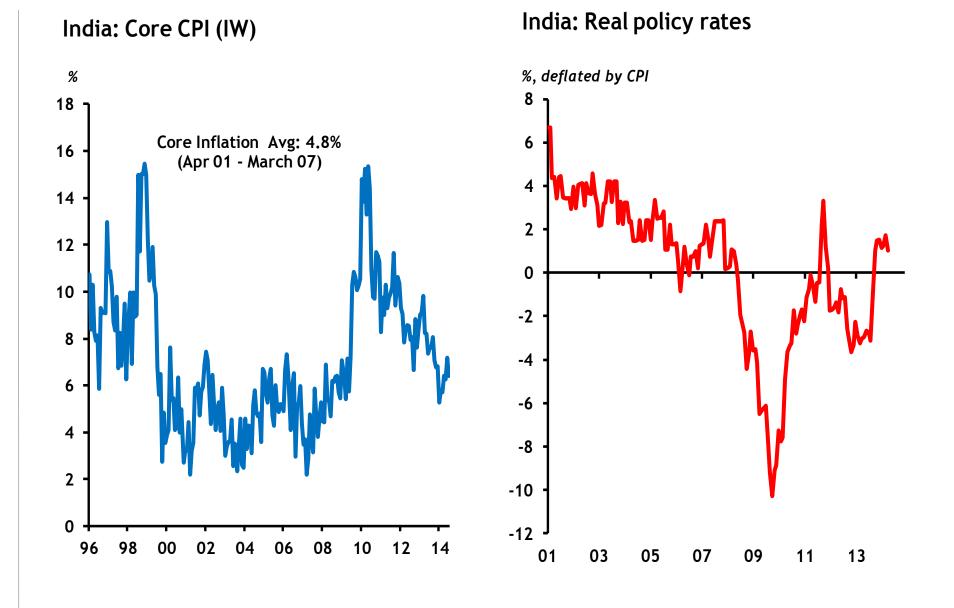
1 Y deposit versus Repo



 Banks were reluctant to cut deposit rates for fear of triggering financial disintermediation

 PSU banks constrained by "deposit" targets

## Implications for monetary policy: speculating on a neutral rate



Source : MOSPI, Bloomberg, CEIC

## Implication: limited space to ease unless inflation remains at current levels

### Uncomfortable monetary arthimetic

% average	FY02-FY07	FY15-FY17
Assumed potential growth (% oya)	7.3	6.5
Realised inflation (% oya)	4.5	6.0
Growth-real rate gap	4.7	4.7
Derived real rate	2.6	1.8
Implied policy rate	7.1	7.75-8.0

 Real rates need to stay positive for financial development

 Else any pick-up in investment will rely disproportionately on foreign, not domestic, savings pressurizing the CAD

The higher the potential growth, the higher the needed real rate

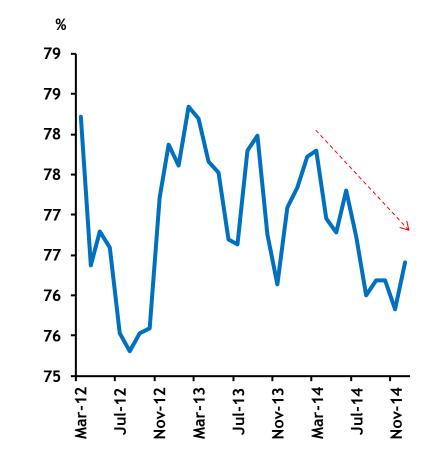
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### Symptom 2: But even as financial savings pick up, great reluctance to lend on the part of banks

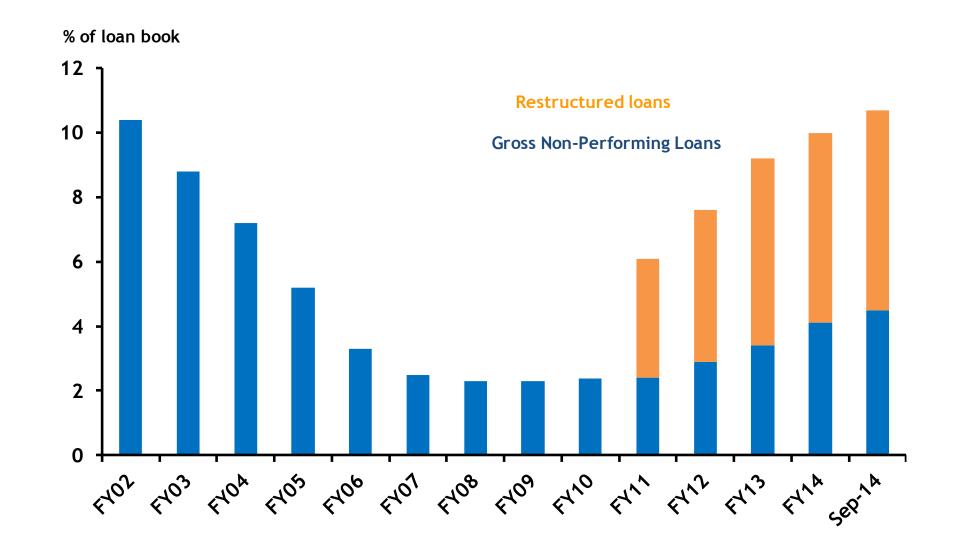
### %oya, 3mma 22 20 18 16 14 12 10 Nov 14 Jul 13 Mar 14 Jul 14 Mar 13 Nov 13 **Nov 12**

Infrastructure credit growth

#### Credit -deposit ratio



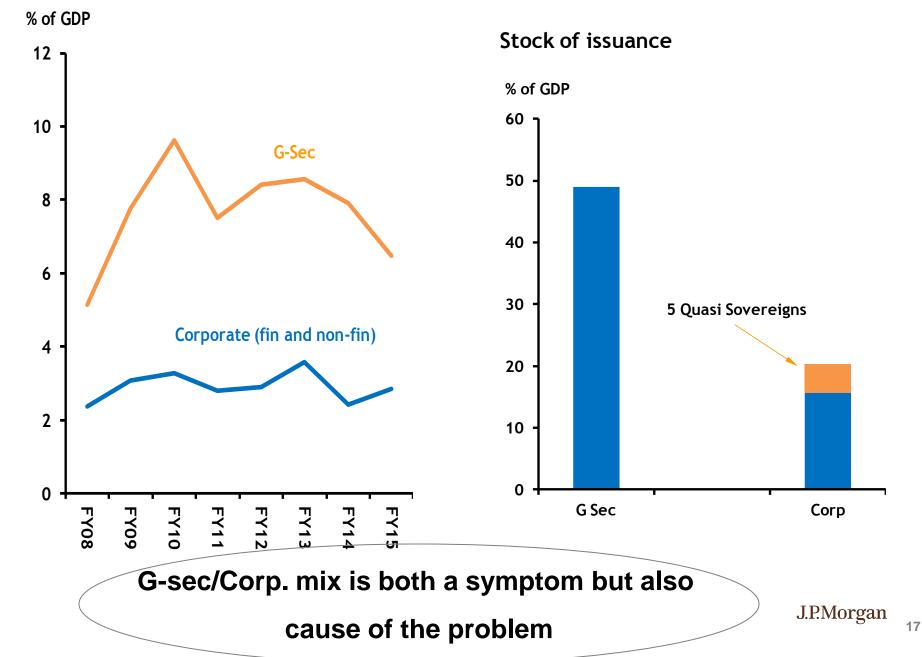
# Balance sheet problem – NPAs driving risk aversion; cyclical or structural ?



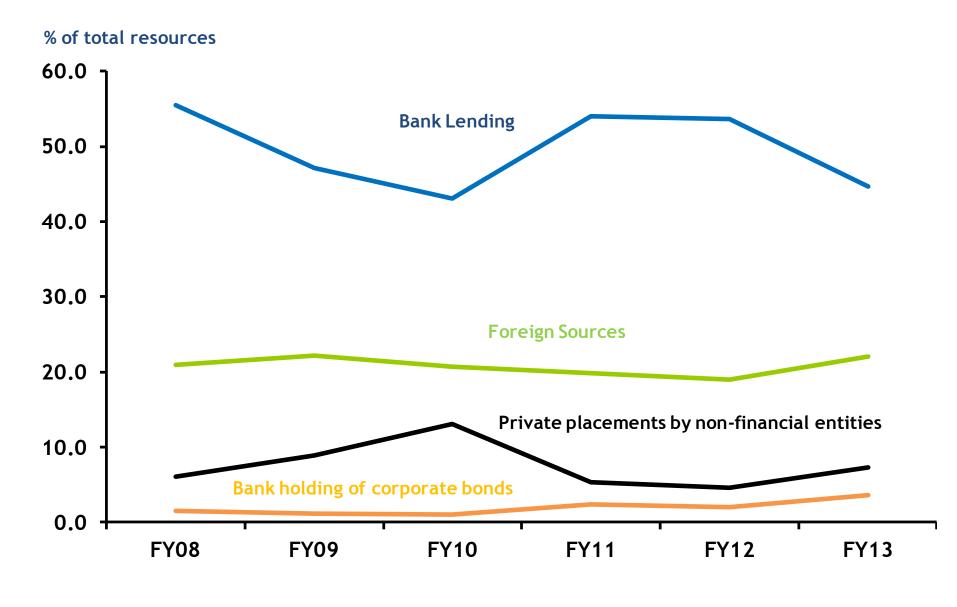
# Bank reforms needed but there's a more fundamental issue at hand

- Microeconomic issues afflicting public sector banks is well known and don't need repetition:
  - Governance reforms within PSBs
  - Did they systematically mis-price risk?
  - How do we improve real/financial restructuring and debt recovery
- More fundamentally: banks ill-suited to make long-term infrastructure investments given the ALM mismatch
- Fiscal constraints: current civilian capex of central govt budget = 1% of GDP
- Cannot escape the need for a vibrant corporate bond J.P.Morgan 1

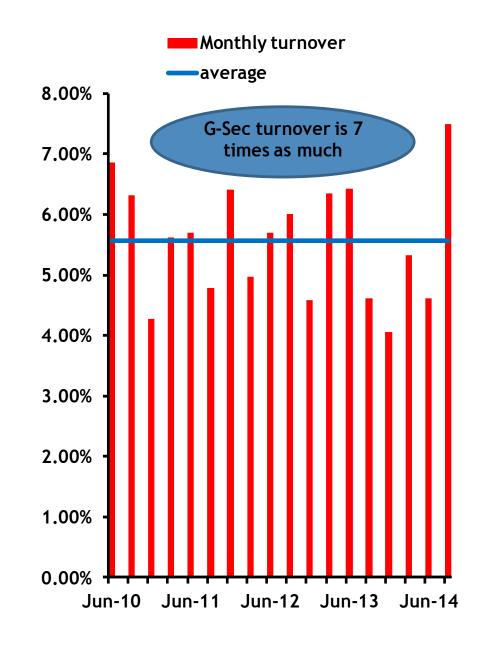
### Driver 2: A shallow corporate bond market



# Corporate bonds constitute a very small fraction of fund-flow to non-financial entities



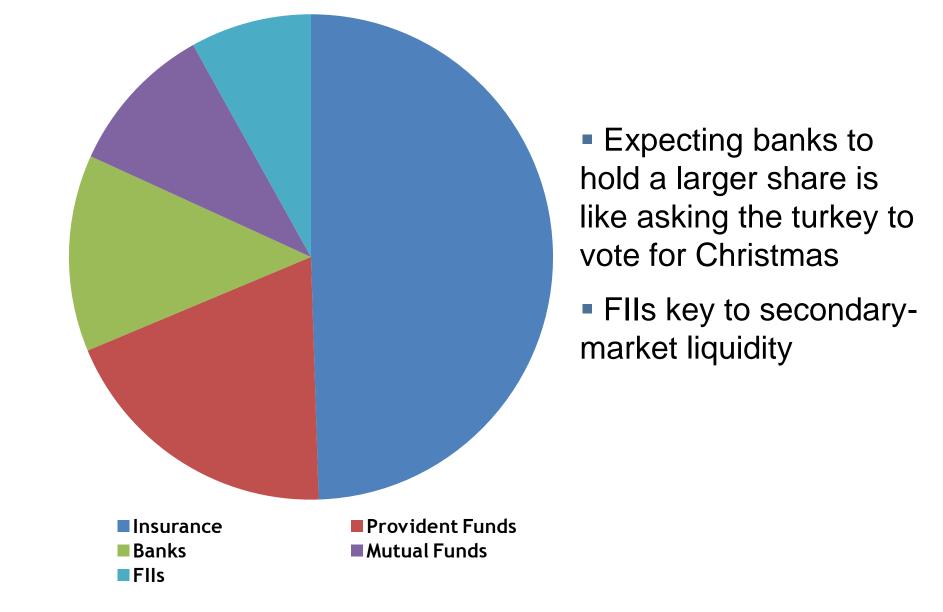
### Low turnover and secondary market liquidity



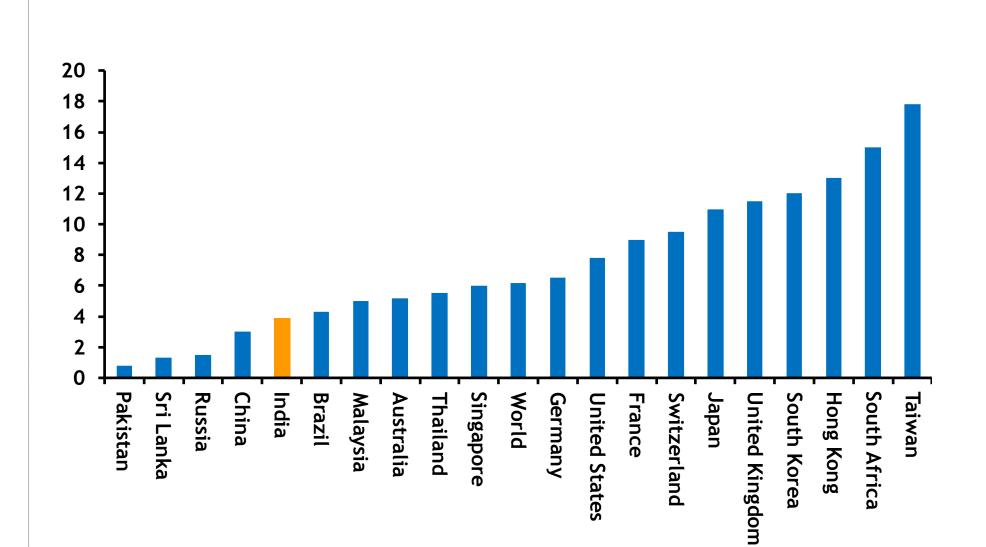
 "On-the-run" bid-ask spreads 2-5 bps for corp; 1 for G-secs; "offthe-run" 10-15 bps for corp bonds; 5 bps for Gsecs

 Lower secondary market liquidity because of prevalence of buyand-hold investors

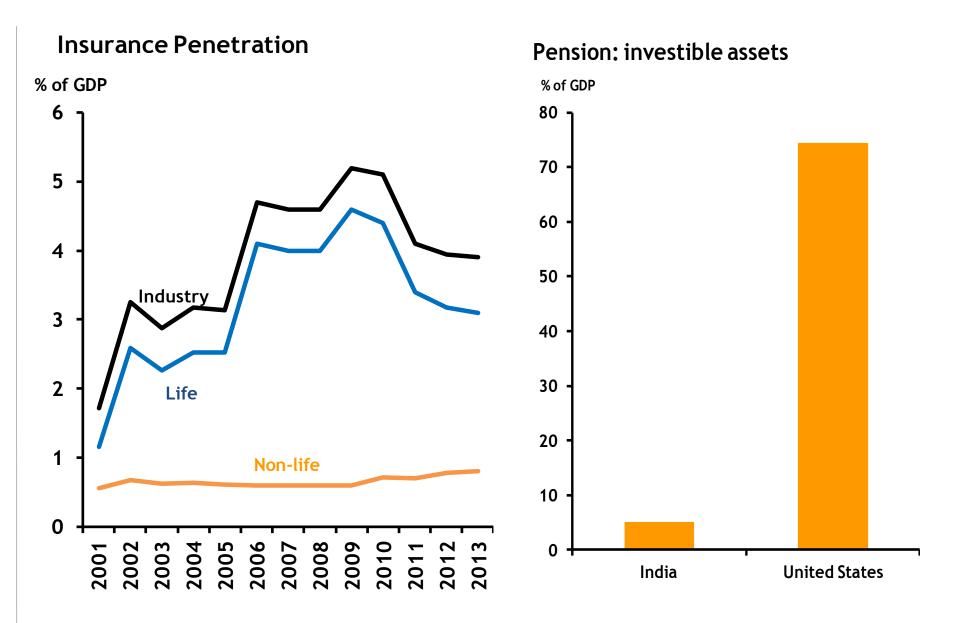
### Need a critical mass of heterogenous owners



### Plethora of microeconomic distortions but long term contractual savings is key for depth

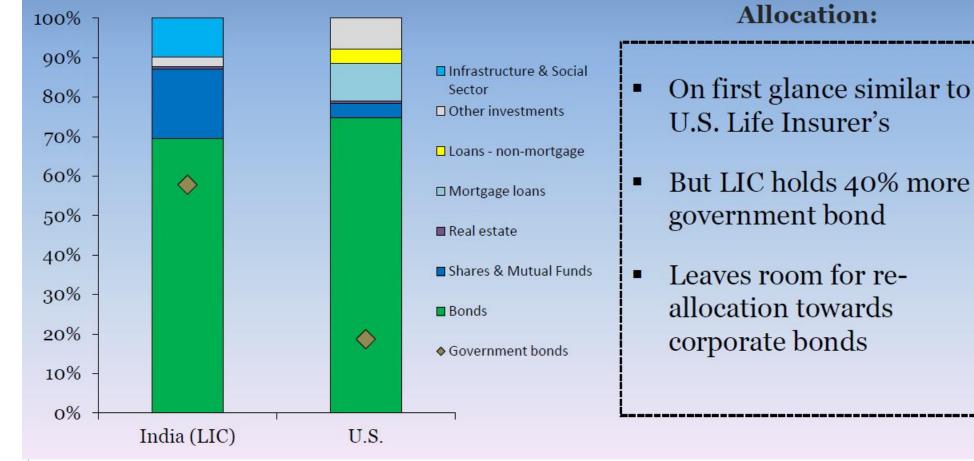


# Need to boost market for long-term contractual savings



### And reduce fiscal crowding out

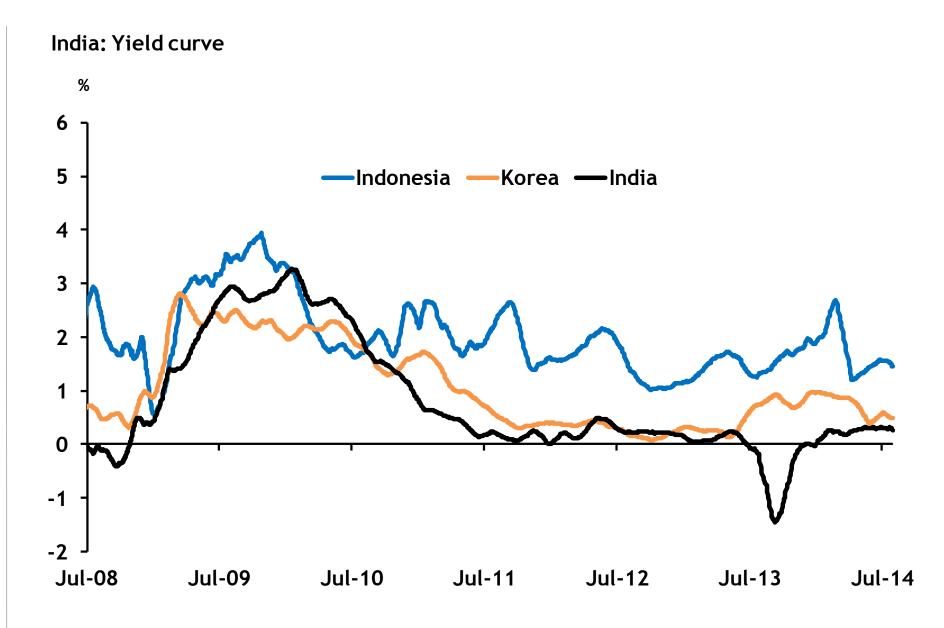
#### Life Insurance Asset Allocation<sup>1/</sup>



Life Insurance Company of

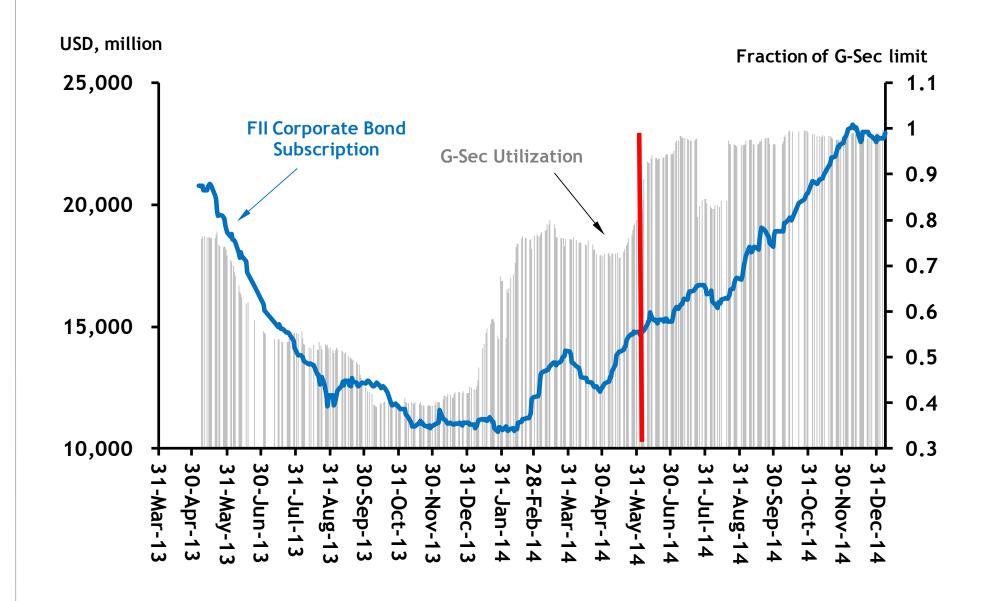
India's (LIC) Asset

# Financial repression: a relatively flat yield curve disincentivizes long-term savings



Source : CSDS Post -poll

### Crowding out: letting the data talk



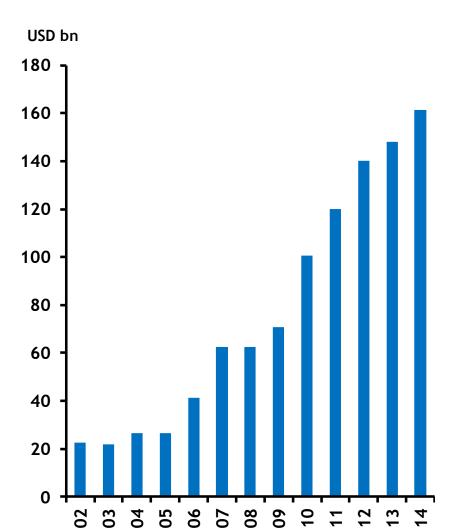
## Corporate bond market: cutting to the chase

- Yes, a variety of micro constraints distortions stamp duty, disclosure requirements, bankcrupty code
- But a necessary condition for market depth and development
  - Increasing market for long-term contractual savings (pension insurance)
  - Reducing fiscal deficits to reduce crowding out
  - Obviating the need for financial repression (SLRs, LIC)
  - Which, in turn, would reduce yield curve distortions and incentivize long-term savings

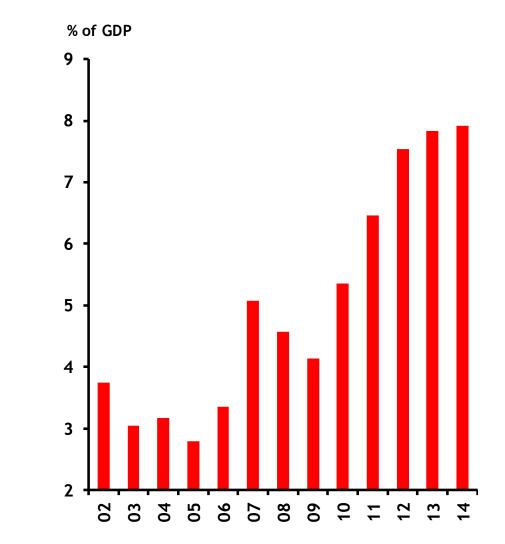
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### Financial stability: ground-hog day again?

#### **ECB** borrowing stock

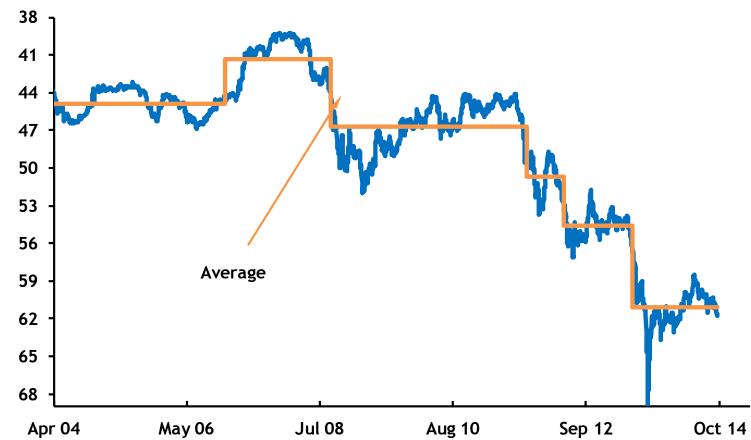


#### **ECB** borrowing stock



### A constant ratcheting down

INR has ratcheted down following every bout of weakness

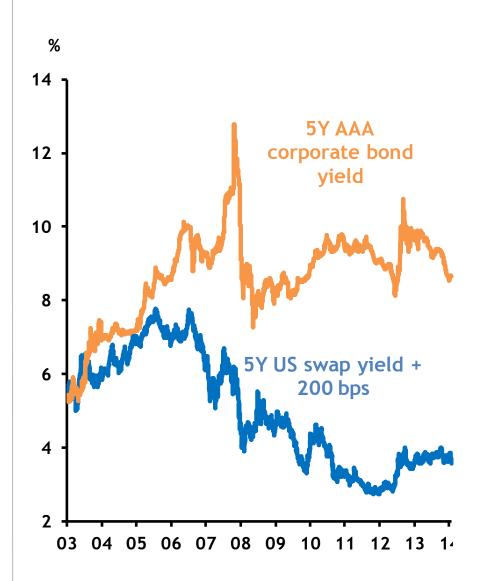


USD/INR, reverse scale

Source : Bloomberg

# Segmented markets, breakdown of BCD nexus, and financial vulnerability concerns





"Margin of temptation"

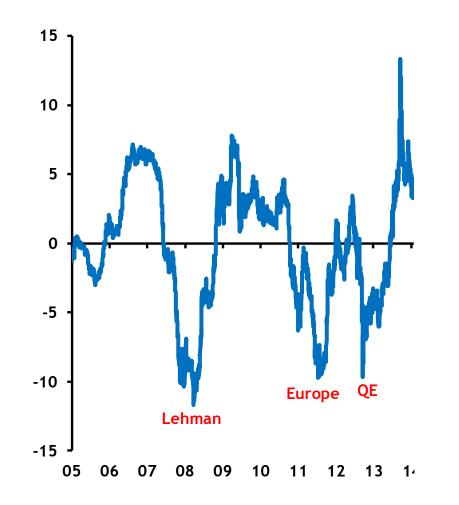
(McKinnon's "super risk premium") not to hedge is large

Especially is you believe forwards always over-estimate spot in "normal times"

Dangerous to
liberalize ECBs for
those without a natural
hedge

### "Forwards over-predict spot in normal times"

#### Forward versus realized spot

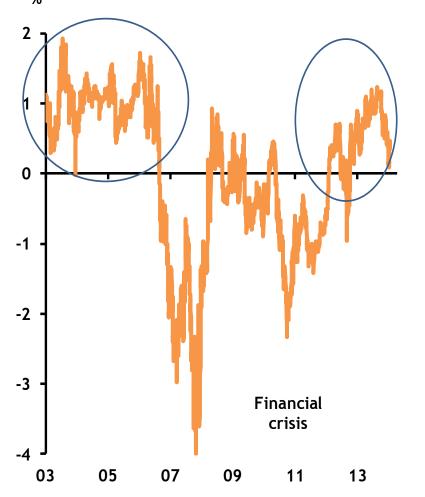


- Should not be surprising
- Uncovered interest parity does not hold; but CIP expected to
- Existence of "currency risk premia"
- Risk neutral agents will stay uncovered

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# Segmented markets, breakdown of BCD nexus, and financial vulnerability concerns

Foriegn borrowed landed cost (post hedging) minus domestic cost of borrowing



- CIP completely breaks down in India
- Reflects segmented markets, lack of integration and incomplete capital account convertibility

 When "landed cost" higher than domestic cost, agents will stay open

### Putting it all together

- Growth remains weak
- Infrastructure and investment remain the key
- But fiscal constraints preclude the government from doing the heavy lifting
- Private investment is the key
- But this would need (over time)
  - Positive and appropriate real rates of return to boost financial savings
  - Greater contractual (pension/insurance) savings
    - Lower fiscal deficits
    - Reduced financial repression
    - A less-distorted yield curve

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