November 2015

PBOC'S TRILEMMA

RMB Development

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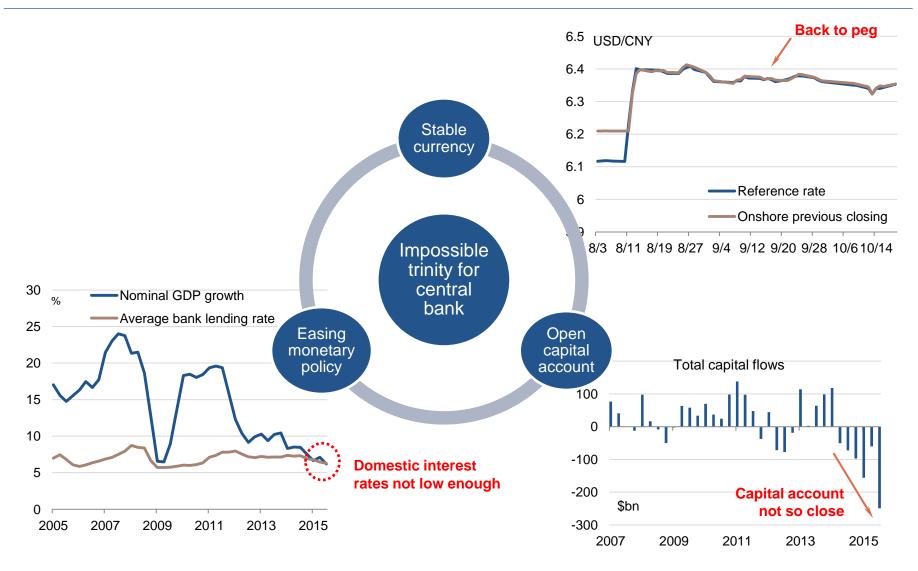
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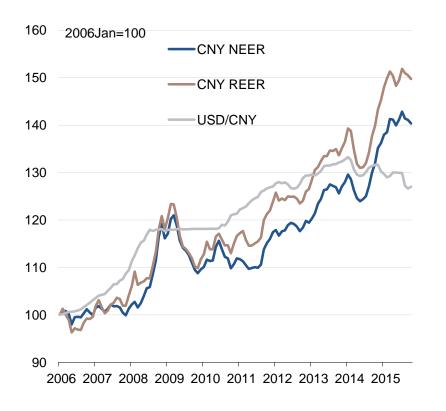


PBOC STUCK IN THE IMPOSSIBLE TRINITY

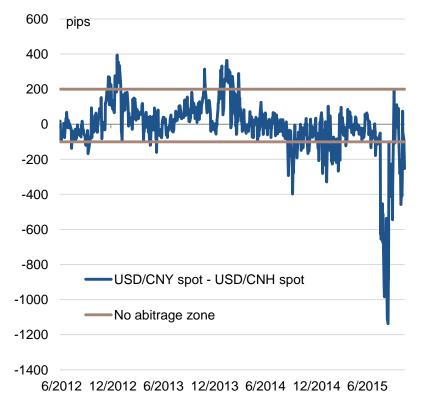




PERSISTENT DEPRECIATION EXPECTATIONS



RMB barely changed in EER terms

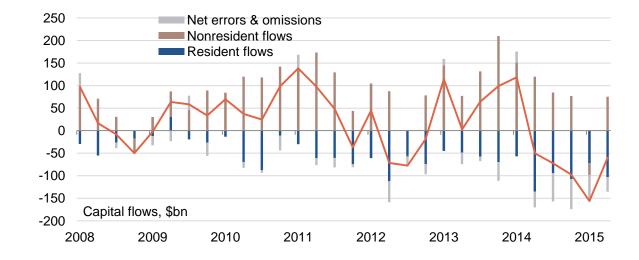


Depreciation pressure still well present



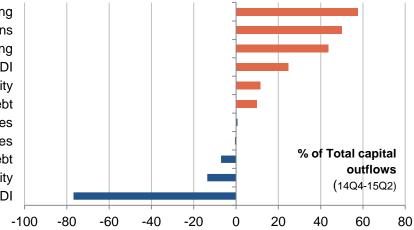
RESIDENT FLOWS DOMINATE THE OUTFLOWS

Capital outflows started to intensify since Q4 2014



 Top three outflow accounts: deleveraging, shadow diversification, formal diversification

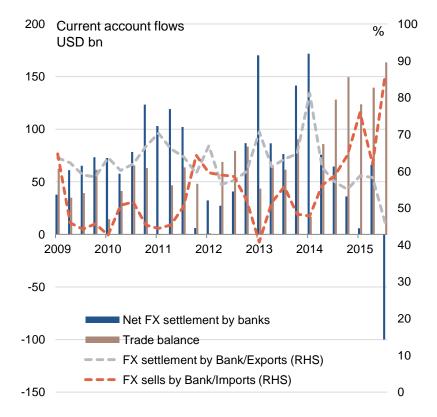
Non-resident: Banking Net errors & omissions Resident: Banking Resident: FDI Resident: Portfolio Equity Resident: Derivatives Non-resident: Derivatives Non-resident: Portfolio Debt Non-resident: Portfolio Equity Non-resident: FDI



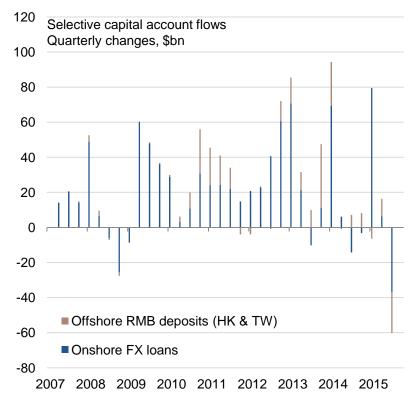
Source: SAFE, CEIC, SG Cross Asset Research/Economics



CAPITAL OUTFLOWS OVERWHELM TRADE SURPLUS



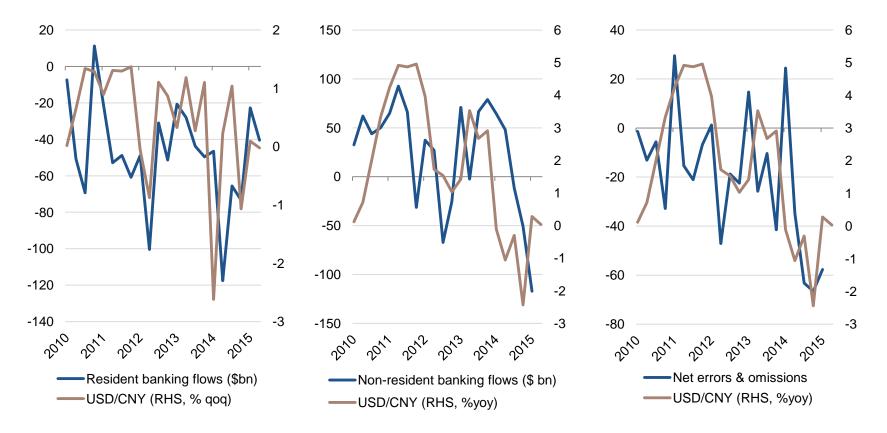
Settlement behavior highly sensitive to the currency movement



Banking flows dominate the capital account



MAJOR OUTFLOWS ALL FROM CHINESE AND SENSITIVE TO FX

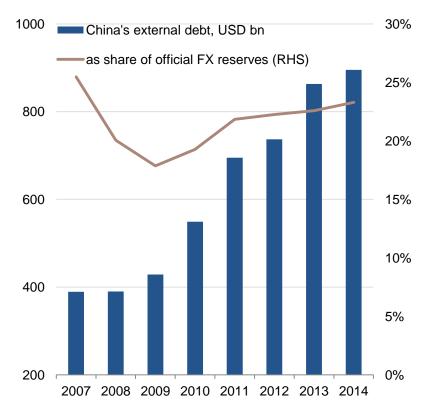


Capital controls introduced after RMB regime change:

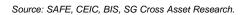
- A limit of RMB100k per year introduced for individual's overseas cash withdraw via UnionPay
- Banks must keep the equivalent of 20% dollar reserves for clients' FX derivative positions
- Closer monitoring of individual FX conversion under the \$50k annual quota

Source: SAFE, CEIC, SG Cross Asset Research/Economics

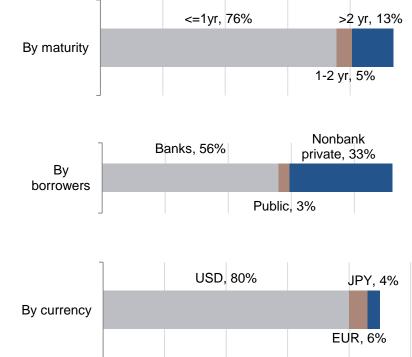
EXTERNAL DEBT OVERALL MANAGEABLE



- Total size of external debt still manageable
 - <10% of GDP</p>
 - 1/4 of official reserves

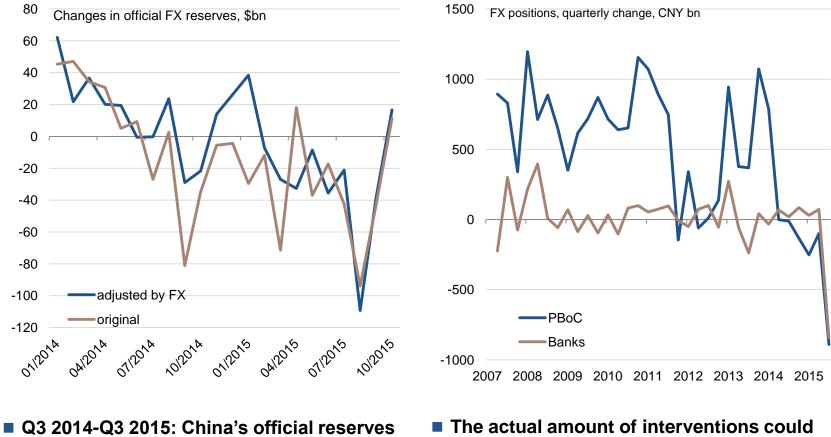




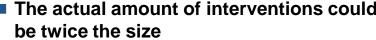


- Short duration => roll-over risk
- Unhedged => FX mismatch
- Developers' debt small in size but may have outsized impact

MORE INTERVENTIONS THAN MEETS THE EYE



declined by \$230bn





LIBERALISATION SEQUENCING ISSUES



Capital account liberalisation sequence

IMF recommendation: Inflows >> outflows Long-term >> short-term Direct>credit >> portfolio

China's practice: Follow the text book, but much slower on outflows liberalisation

Now the problem is ... not ideal timing for increasing currency flexibility

- Currency no longer undervalued
- Structural deceleration
- Interest rate differential to vanish
- Official FX reserves not unlimited



Source: SAFE, CEIC, IMF, SG Cross Asset Research/Economics



PROGRESS OF CAPITAL ACCOUNT LIBERALISATION

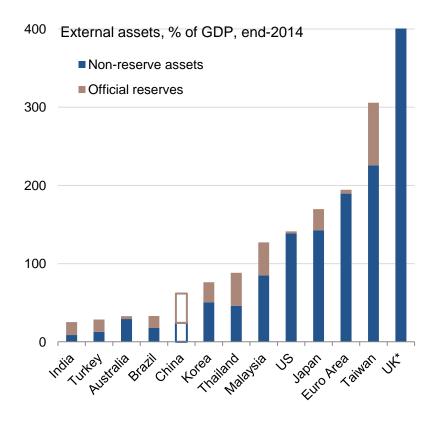
-- Nonresident; -- Resident; -- Two-way

	Current	Capital account			
	account	Direct	Banking	Portfolio	
2000- 2012	Aug 11: RMB settle- ment for trade nation- wide	Oct 11: Eased controls on RMB settle- ment for FDI & ODI		Nov 02: Launched QFII: allow foreign institutional investors (IIs)in exchanges Apr 06: Launched QDII: allow domestic IIs to invest in overseas securities Aug 10: Launched PBoC Channel: allow foreign CBs, RMB clearing /participating banks in interbank bond market, subject to quotas	
2013- 2015			Jan 13: Initiated cross-border loans Feb 14: Launched the pilot on cross- border RMB cash pooling in the Shanghai FTZ, enabling MNCs to centralize RMB treasury management; Jun 14: expanded nationwide Feb 15: Allowed companies in the Shanghai FTZ to freely borrow offshore under a macro-prudential risk management framework Oct 15: Launched Cross-border Interbank Payment System (CIPS)	Mar 13: Allowed QFII investors in interbank bond&FX market Nov 14: Launched SH-HK Stock Connect Jun 15: Allowed offshore RMB clearing/participating banks to source liquidity from interbank bond market Jul 15: Launched Mutual Fund Recognition w. HK Jul 15: Switched to registration-based access for foreign CBs, SWFs and international financial organizations in interbank bond market, including IRS & FRA; <u>Sep 15:</u> in interbank FX market	
Next			To achieve full RMB convertibility in Shanghai FTZ	To set up SZ-HK Stock Connect To expand (R)QFIIs and eventually phase out quota management for nonresident long-term portfolio flows To launch QDII2: allow domestic individual investor to invest overseas securities	

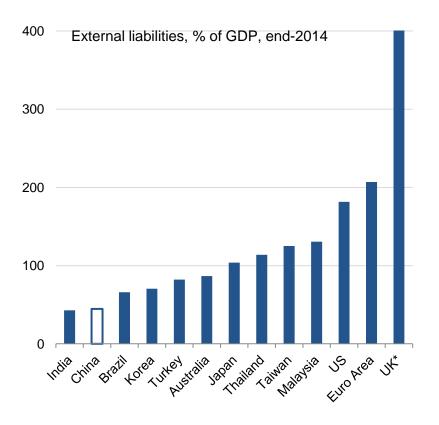
Source: Chinese government, SG Cross Asset Research/Economics



DE FACTO OPENNESS STILL LIMITED



- Non-reserve assets only 25% of GDP
- Future trend: non-official outflows to replace official outflows

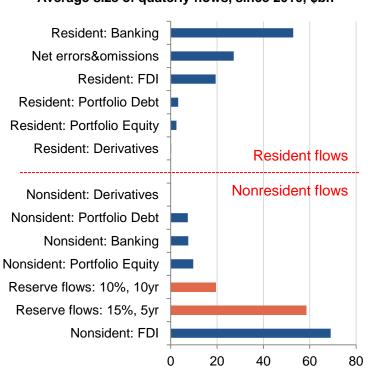


- External liabilities less than 50% of GDP
- Future trend: expansion of long-term portfolio inflows

* UK's external assets and liabilities both around 550% of GDP. Source: SAFE, CEIC, IMF, SG Cross Asset Research/Economics



SDR INCLUSION NO GUARANTEE FOR RESERVE CURRENCY STATUS



Average size of quaterly flows, since 2010, \$bn

Limited inflows in the short-term

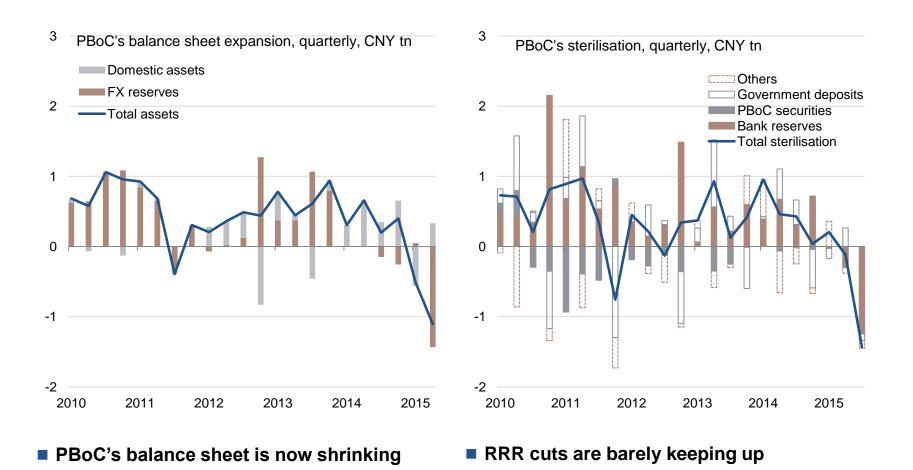
Long-term impact subject to China's liberalisation progress

Implication of further liberalisation

- If no change in official reserves, Current account surplus = Capital account deficit
- If China doesn't run current account deficit, China will be a capital exports and RMB a funding currency on balance
- That is, Resident outflow > Nonresident inflows
- For the currency, the short-term question is how fast Chinese FX diversification will take place.

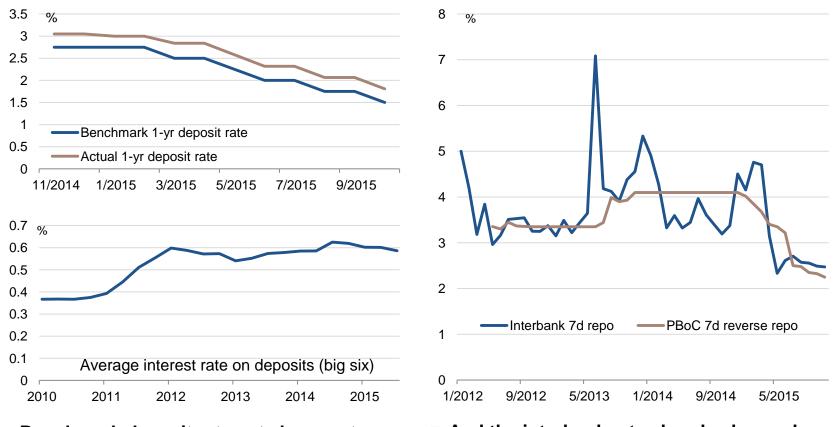
	FDI	Portfolio: Equity	Portfolio: Debt	Credit: Loans			
External Assets, excl. official reserves (% of GDP)							
China	7.2	2.5	1.6	3.6			
G4 average	50.9	37.4	42.9	25.3			
External Liability (% of GDP)							
China	25.9	3.6	1.4	5.5			
G4 average	42.2	41.6	52.8	28.0			

SELF-INFLICTED QUANTITATIVE TIGHTENING





FEWER RATE CUTS CAN MEET THE EYE



- Benchmark deposit rate cuts have not brought down banks' interest rate expenses much
- And the interbank rates barely changed since mid-2015



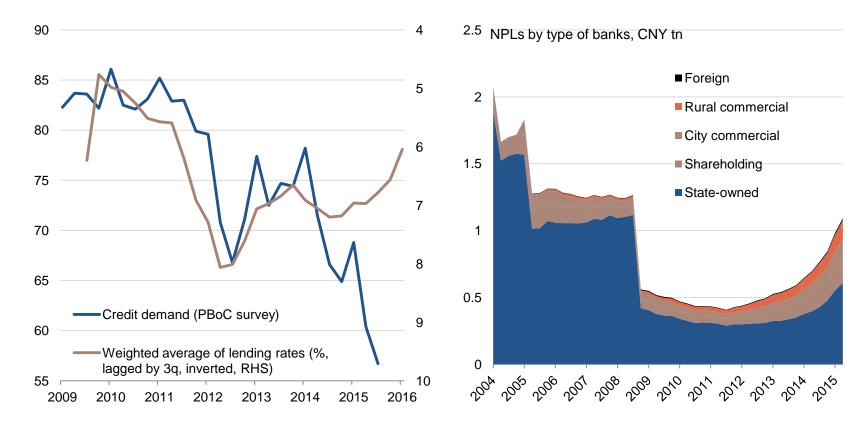
PBOC'S NEW POLICY TOOLBOX

Instruments	Duration	Frequency	Latest implementation
Short-dated			
Regular Open Market Operation (OMO)	most frequent: 7-, 14-day others: 21-, 28-, 91-day	Auction usually held on Tuesdays and Thursdays. PBoC	Latest injection: 7-day reverse repo, late Oct 2015, 2.25%; 14-day reverse repo, 29 Sep 2015, 2.70%
	· · · · · · · · · · · ·	usually gauges demand one day before an auction.	Latest withdrawal: 14-day repo, 25 Nov 2014, 3.2%
Short-term Liquidity Operation (SLO)	O/N to 7-day	Irregular	Latest injection: 6-day reverse repo, 31 Aug 2015, 2.35%
 OMOs with shorter durations to supplement the regular OMOs 			Latest withdrawal: 5-day repo, 27 Feb 2014, 3.40%
Standing Lending Facility (SLF)	O/N and 7d for small- and	Irregular, upon request	Latest injection: Mar15, for those institutions that meet
 short-term liquidity offered by the central bank at the request of financial institutions 	medium- sized financial institutions		certain macro-prudential criterion: o/n 4.5%, 7-day 5.5%; or 100bp higher for those which fall short.
	1m to 3m for policy banks & big commercial banks		
Bank reserves	N/A	N/A	Injection: required reserve ratio cuts on 23 Oct
- depository institutions' required or excess reserves at			Rate on required reserves: 1.62%
the central bank			Rate on excess reserves: 0.72%
Longer-dated			
Medium-term Lending Facility (MLF)	3- and 6-month	Irregular; upon request, can be granted via auctions	Latest injection: 6-month MLF of CNY 105.5bn, Oct
- medium-term liquidity offered to qualified commercial			2015, 3.35%
banks and policy banks at below-market rates			Injection in Q2: 3-month MLF of CNY 384.5bn, Apr 2015, 3.50%
Pledged Supplemental Lending (PSL)	3-year	Irregular	Injection: PSL of CNY 52.1bn to China Development
 long-term liquidity provided for development projects such as shanty town renovation 			Bank, Sep 2015, 2.85%
Relending with credit asset collaterals	Less than two years	Irregular	Amount granted in the two pilot provinces in 2014:
- similar to PSL but allows local banks to use high- quality loans as collateral, thus aimed at smaller banks			PBoC Guangdong branch provided CNY1.68bn in 2014 with one-year interest rate 3.5%
without enough bonds to apply for PSL			PBoC Shandong branch provided CNY0.85bn
Other forms of relending	Less than two years	Irregular	N/A
 targeted at small banks without enough bonds to apply for PSL; some programmes required no collateral 			

Source: PBoC, SG Cross Asset Research/Economics



MONETARY POLICY TRANSMISSION IMPAIRED

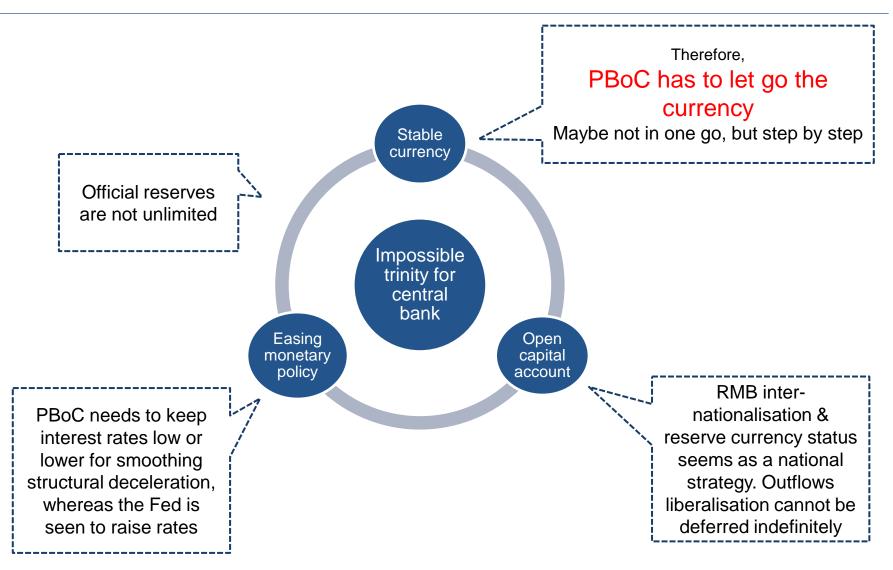


Lack of credit demand, despite lower borrowing cost NPL cycle continues to burden banks

Source: PBoC, CEIC, SG Cross Asset Research / Economics



PBOC WAY OUT OF THE IMPOSSIBLE TRINITY



Source: PBoC, CEIC, SG Cross Asset Research/Economics



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