

China—Back to the Future Once More?

China's Economic Outlook Between Aspiration and Reality, and Why it Matters for Investors Around the Globe

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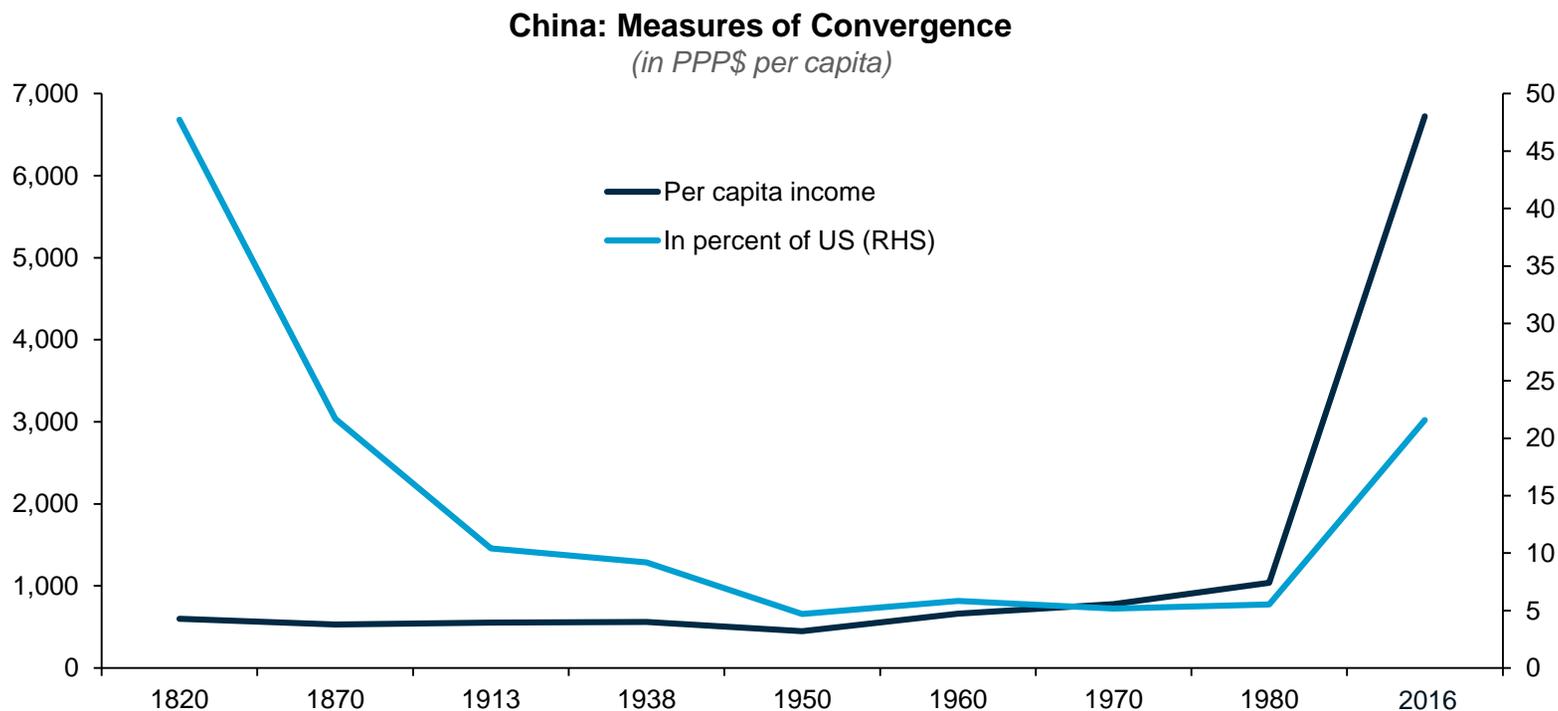
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Still A Lot Of Room Remains For China To “Just” Catch Up

- Market reforms have begun to reverse two centuries of under-performance. This is different from the normal EM “convergence” story
- While the speed of convergence arguably needs to slow, there is still a large gap to close
- If nothing else, the post-Mao China has shown itself apt to adjust when needed
- Rule of law, quality of institutions, trial-and-error (democratic) decision making will become increasingly important and require reforms and changes



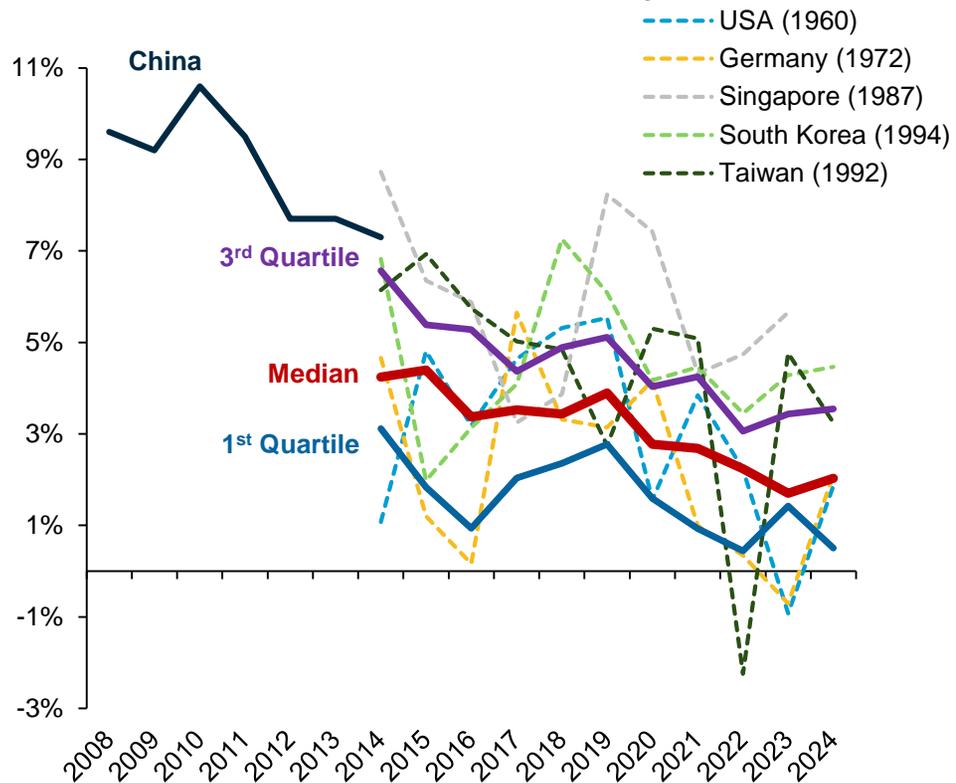


The Unpleasant Reality: High Growth Targets Vs. Low Reform Appetite

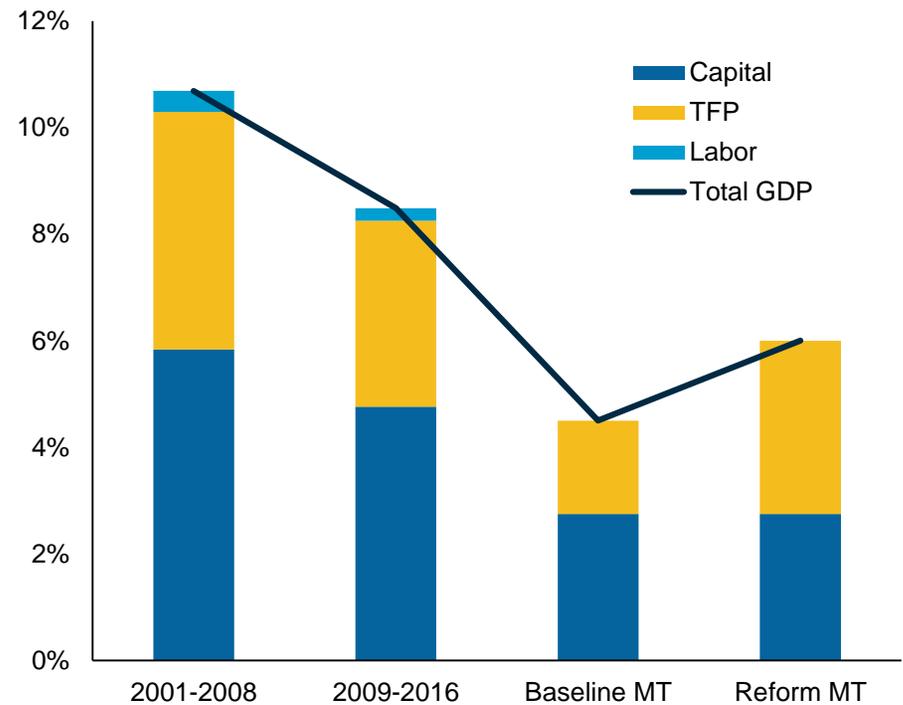
Declining Potential Growth And Need For Reform

- Supply constraints and global economic history imply lower potential growth, likely in 3-5 percent range:
 - Working-age urban population is aging quickly while pool of rural surplus labor is largely drained
 - Inherent limit to credit-fueled overinvestment
 - More limited scope for (total factor) productivity growth, following major advances in adopting blue-print, off-the-shelf technology. Further productivity growth depends on structural reform (SOEs, local government finances, factor pricing, competition)
 - In the absence of reform, credit-financed investment becomes the growth driver

China: Projected Growth Paths Based on Global Economic History



Growth Outlook: Accounting Baseline and Reform Scenarios



Source of charts: Haver Analytics, IMF, and PGIM Fixed Income as of December 2018. There is no guarantee that the forecast shown will be achieved. Please see Notice for important disclosures regarding the information contained herein.



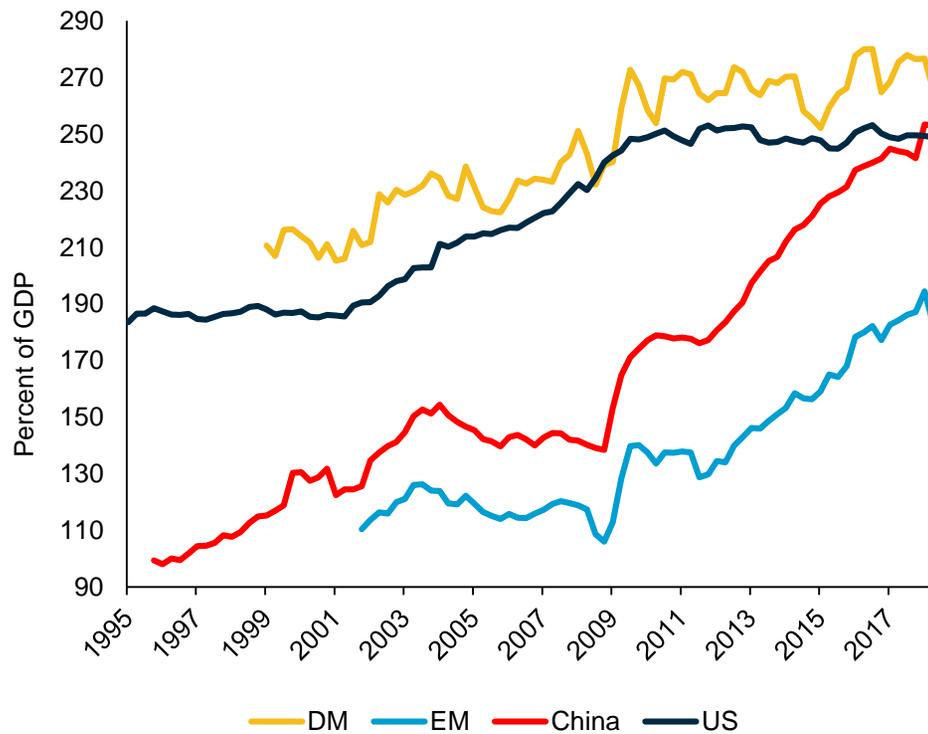
The Worrying Result—A Debt-Dependent Growth Model

Vast Increase In Debt

- Stimulus measures triggered a surge in debt
- Despite being still an EM, China's debt is now approaching DM levels
- Interest cost now running at 15 percent of GDP p.a. and will be harder to meet with lower nominal GDP growth

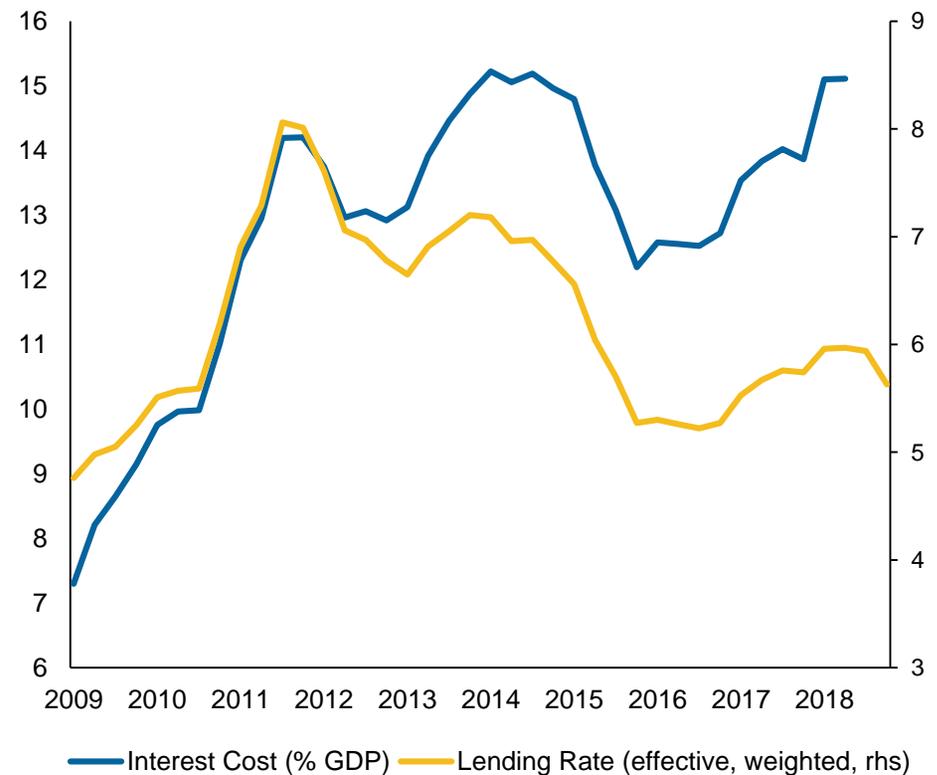
China: Credit to Nonfinancial Sectors from all sectors

As of December 2018



Interest Rate and Interest Cost

As of December 2018



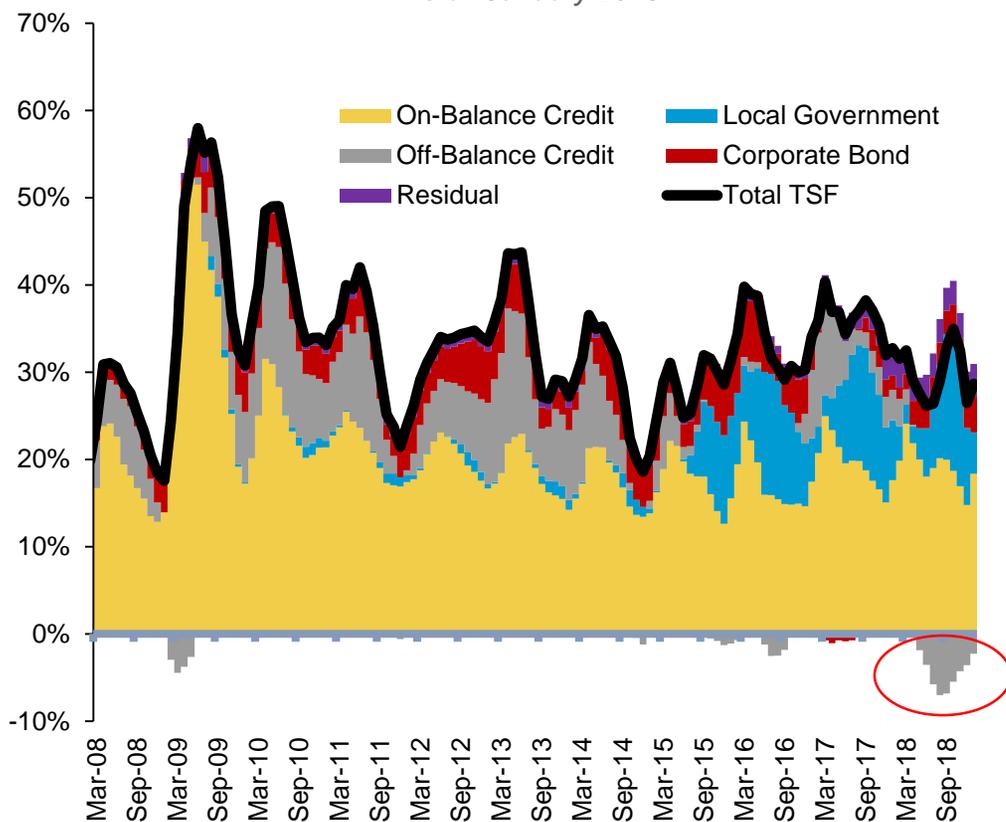
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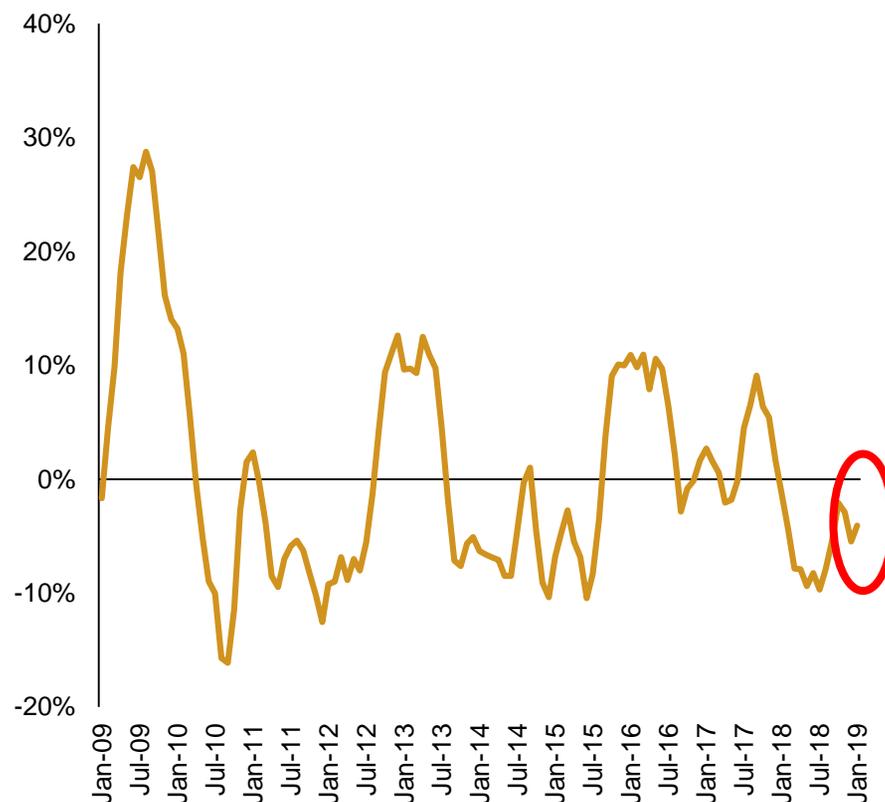
Not So Much Deleveraging, But Trimming Shadow Banking

- Rollback of previous financial liberalization and targeting shadow-banking and off-balance sheet lending
- Targeted housing loans (“shantytown re-development”) and guaranteed bond issuance for local government supported key sectors
- Higher SOE profits (after capacity cuts) reduced loan demand
- However, credit impulse turned negative

**Increase in Economy-Wide Credit
(In Percent of GDP)**
As of January 2019



Credit Impulse (in percent of GDP, y/y)
As of January 2019



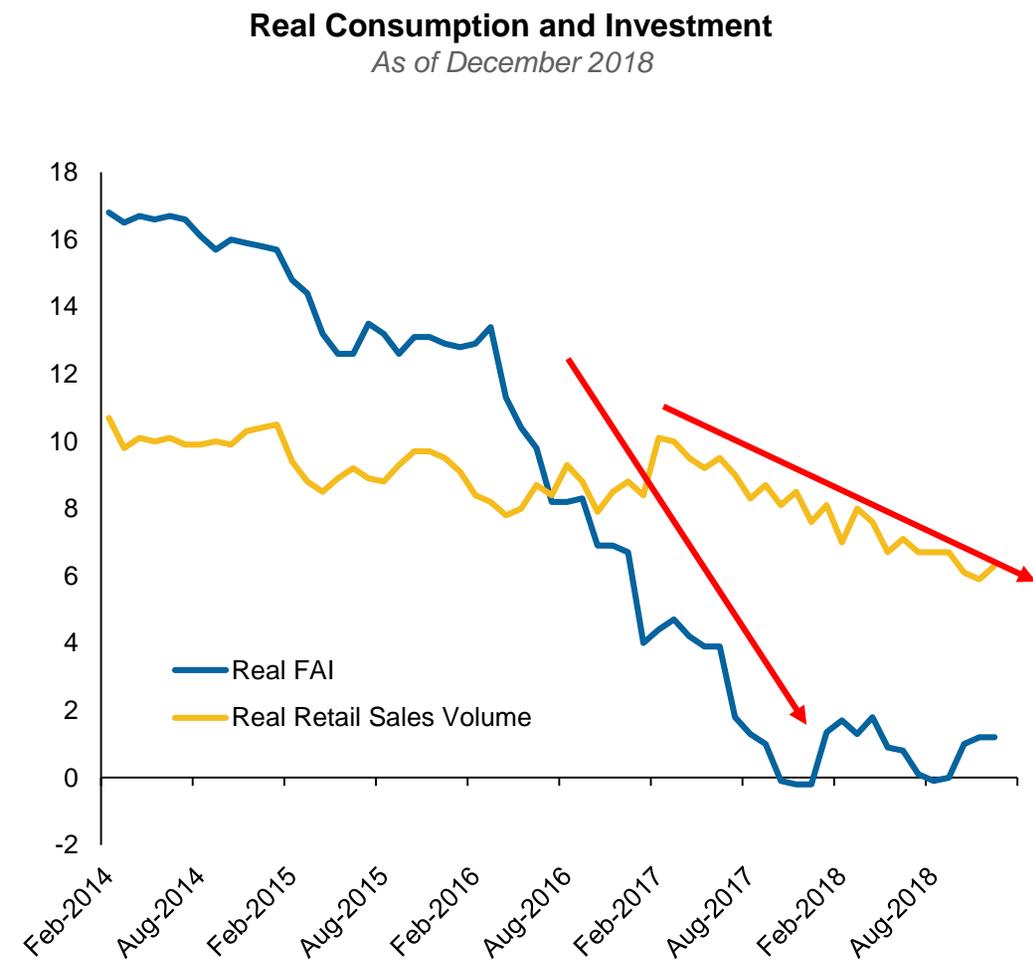
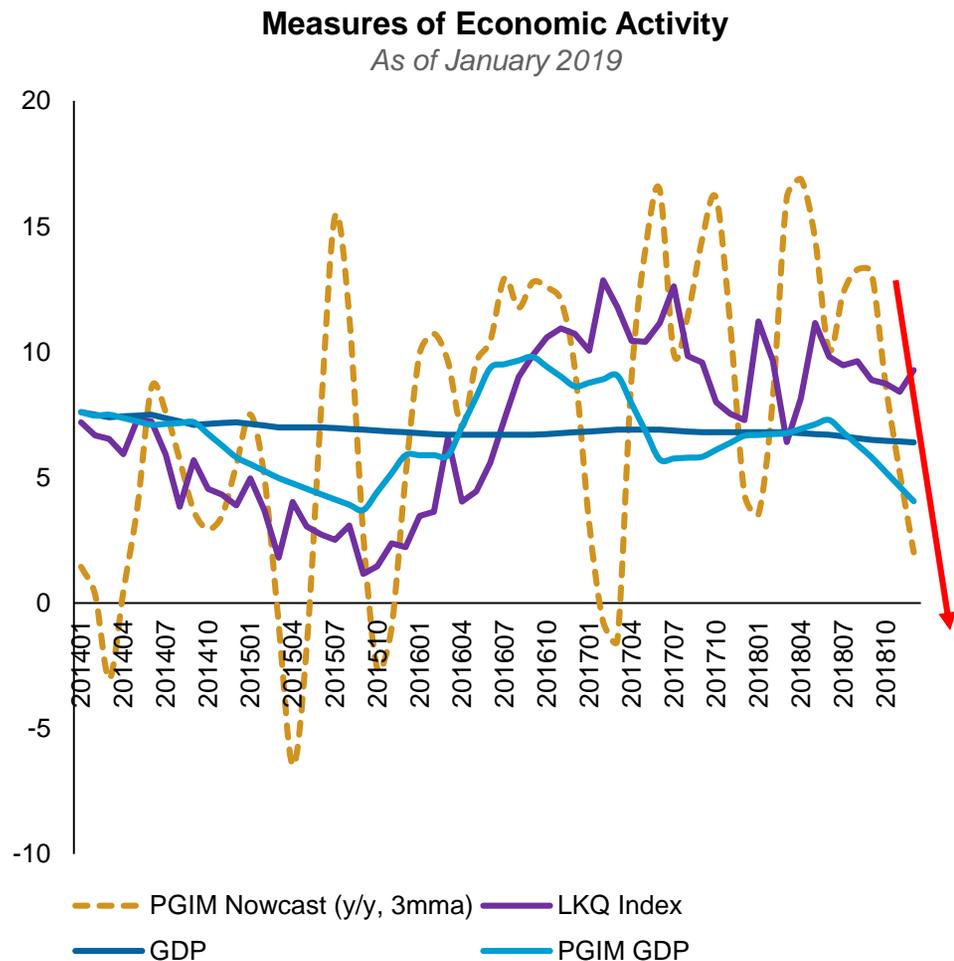
Source of charts: Haver Analytics, IMF, and PGIM Fixed Income. Please see Notice for important disclosures regarding the information contained herein.



Extent of Slowdown Has Now Become Evident

A Sharp Downturn End-2018

- Official and tracking data have significantly weakened
- Temporary support from higher profits, exports (including frontloading of tariffs) and housing support is waning



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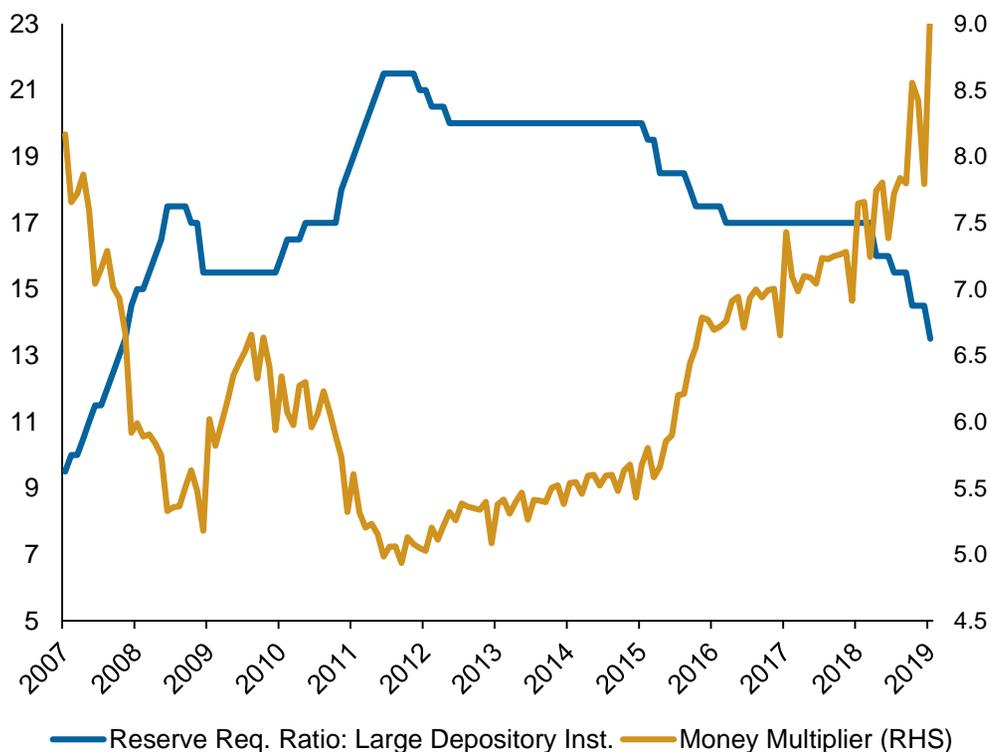


Increasing Stimulus Already In The Pipeline

- Debt-intensive investment has recently slowed, especially in real estate and infrastructure
- Production cuts have not translated into capacity cuts in the key SOE sector, and producer prices are again on their way down, implying profit squeezes ahead
- Monetary and fiscal policy have already been eased, and we expect further fiscal loosening

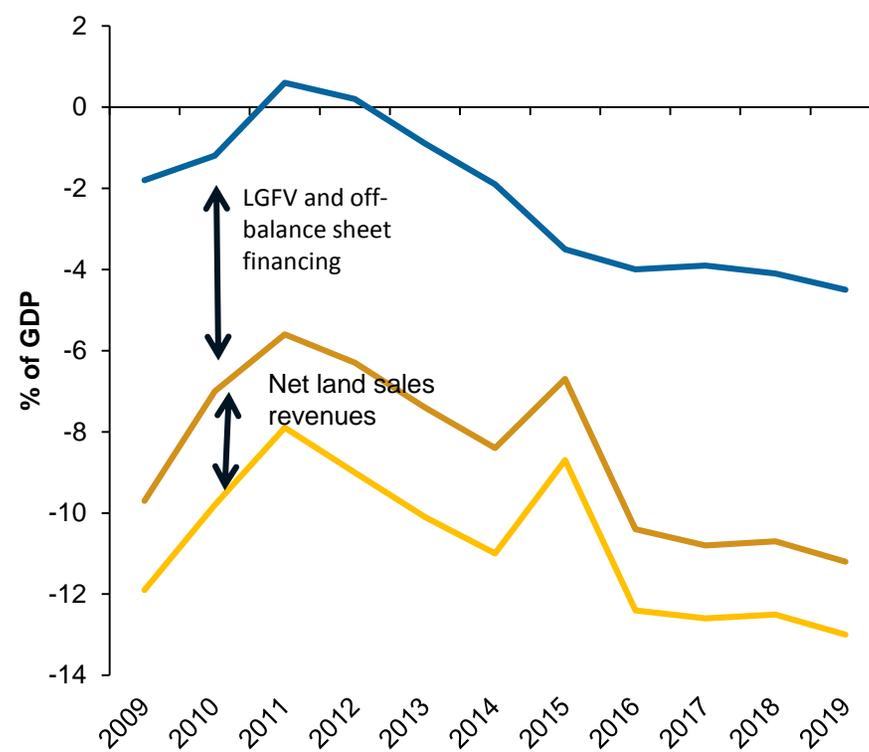
Indicators of Monetary Policy

As of January 2019



General Government Balance

As of October 2018



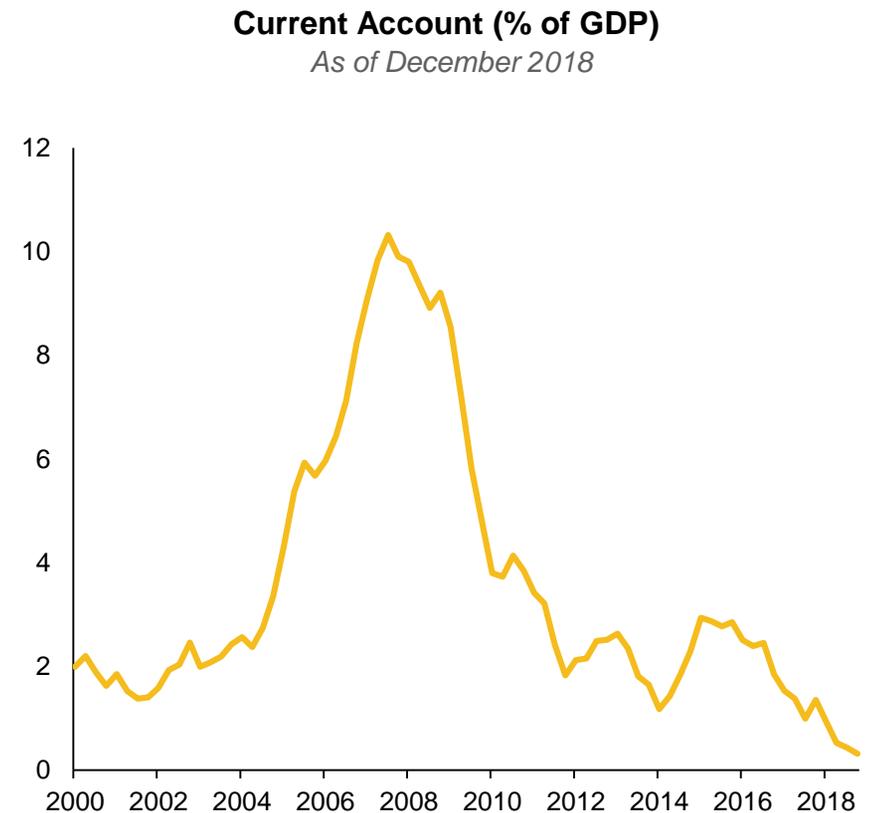
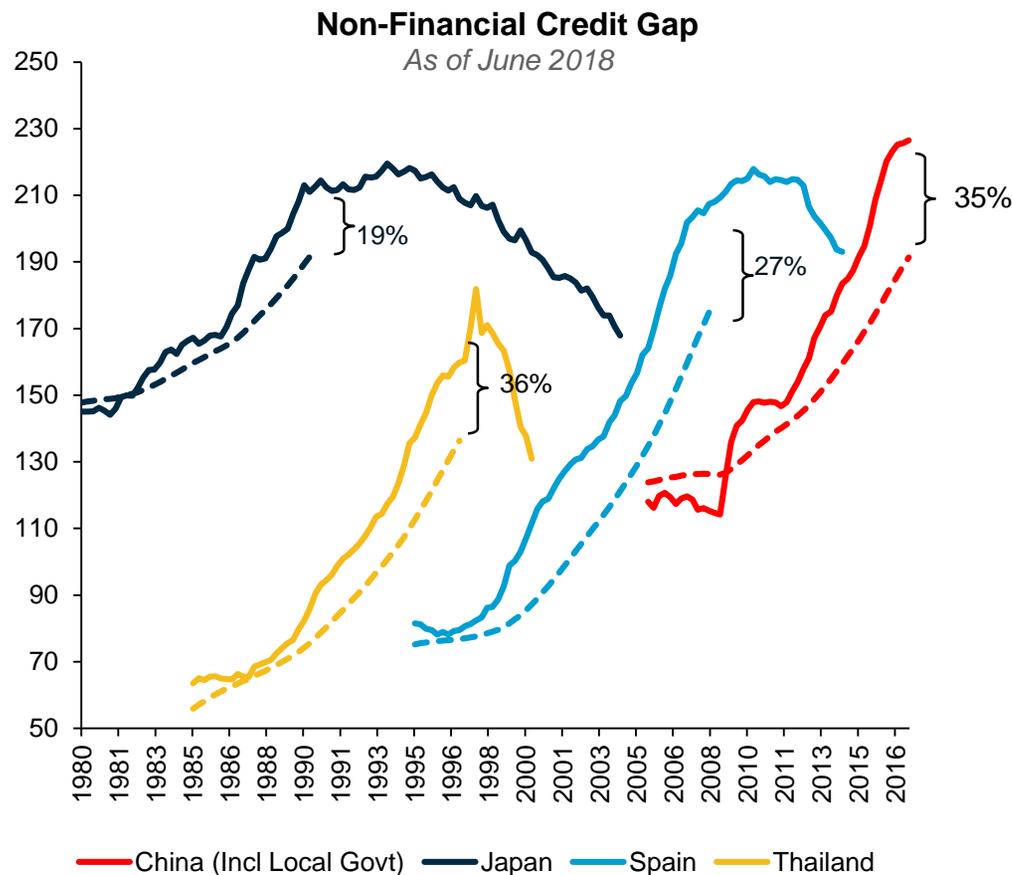
Values for 2019 are IMF forecasts.



But There Are New Risks Ahead

Stimulus Is Facing New Risks And Constraints

- Debt levels are now much higher
- With sharply weaker current account performance, greater reliance on foreign savings raises new vulnerabilities, it is no longer just capital outflows to worry about
- Falling working-age population, rising household debt and large real-estate holdings have weakened households balance sheets

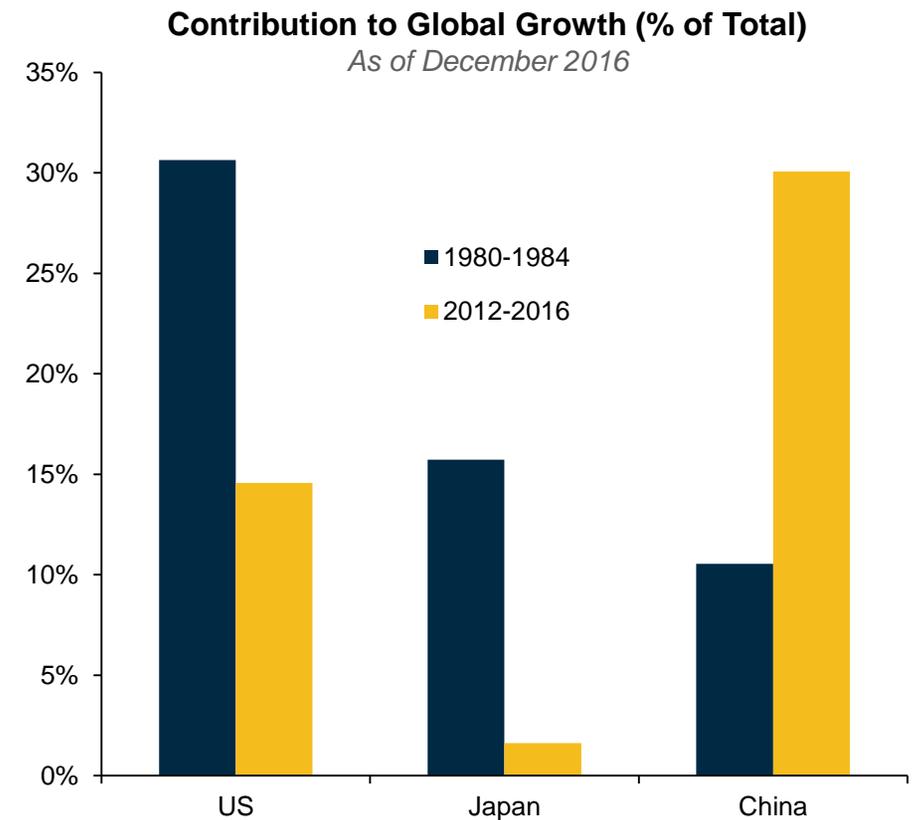
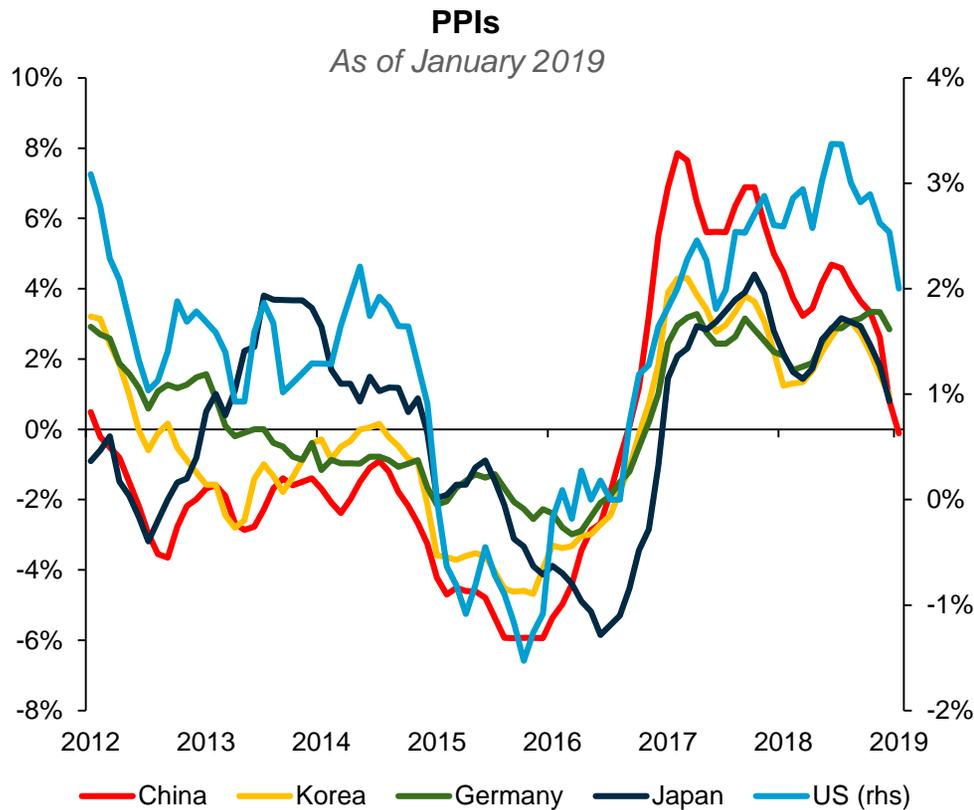




And There Are Global Repercussions

What Happens If China Spills Over

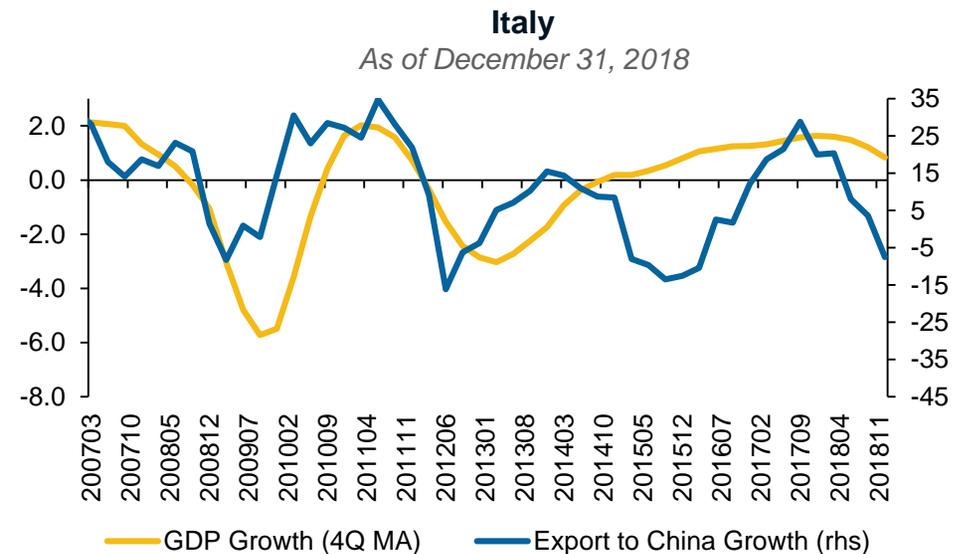
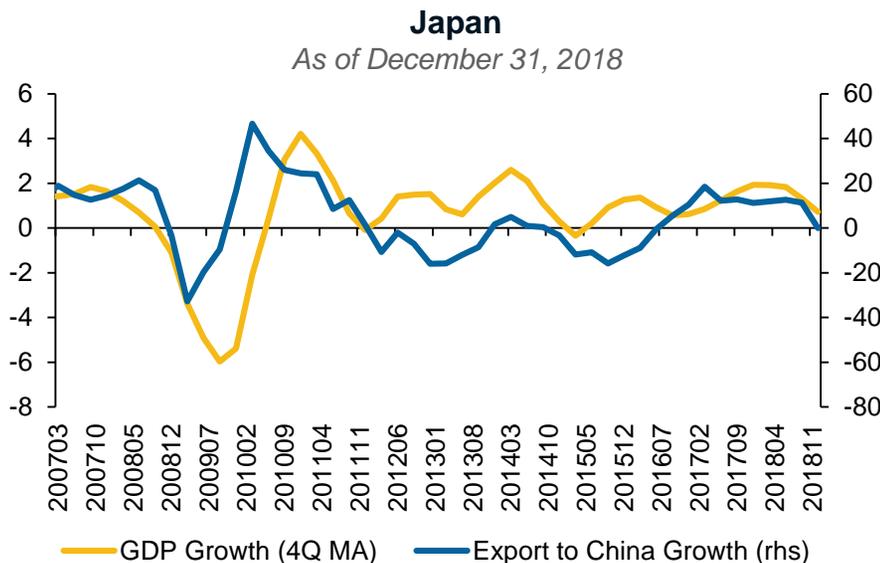
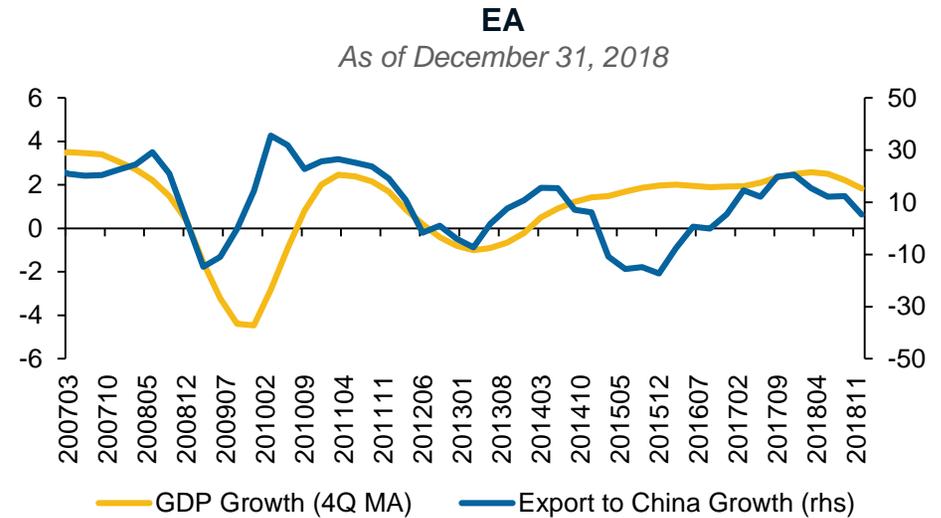
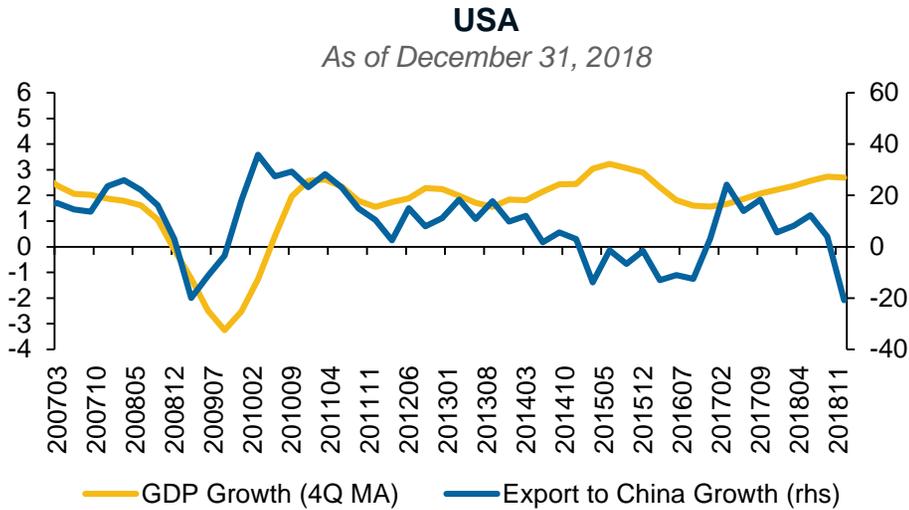
- China has recently led global (dis)inflation trends
- China's contribution to global growth mimics the importance of the U.S. in the 1980s



Source of charts: PGIM Fixed Income and Haver Analytics as of August 2017. The economic and market forecasts presented herein have been generated by PGIM Fixed Income for informational purposes as of the date of this presentation. They are based on proprietary models and there can be no assurance that the forecasts will be achieved. Please see Notice for important disclosures regarding the information contained herein.



“Global Synchronized Growth” Stalled With China

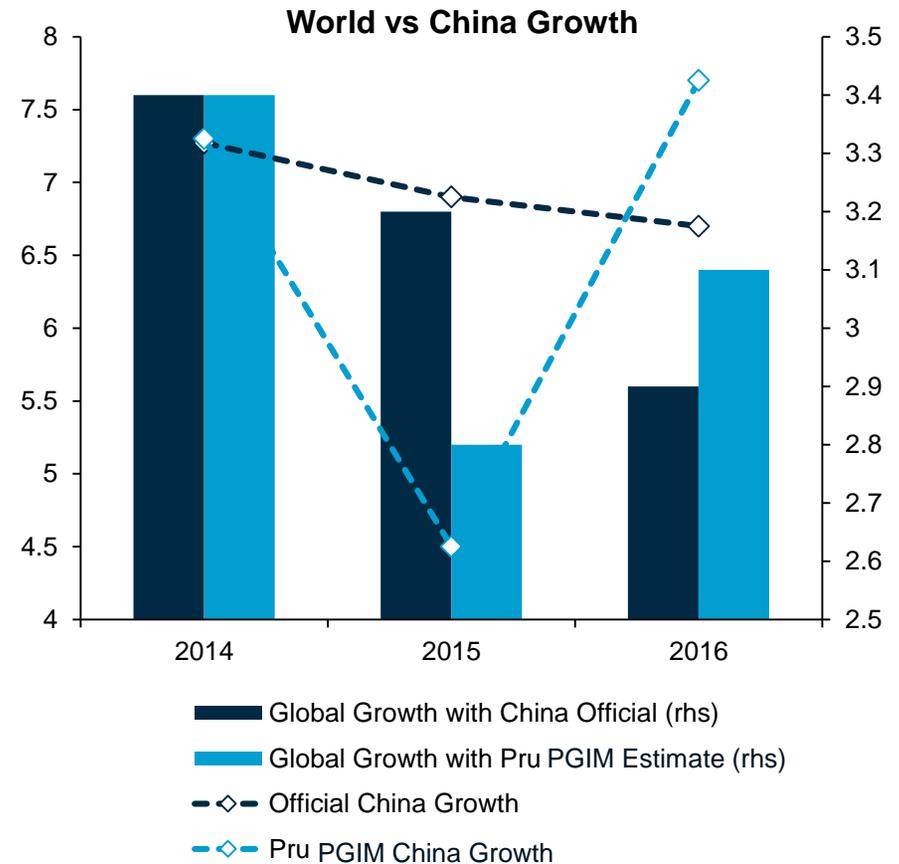
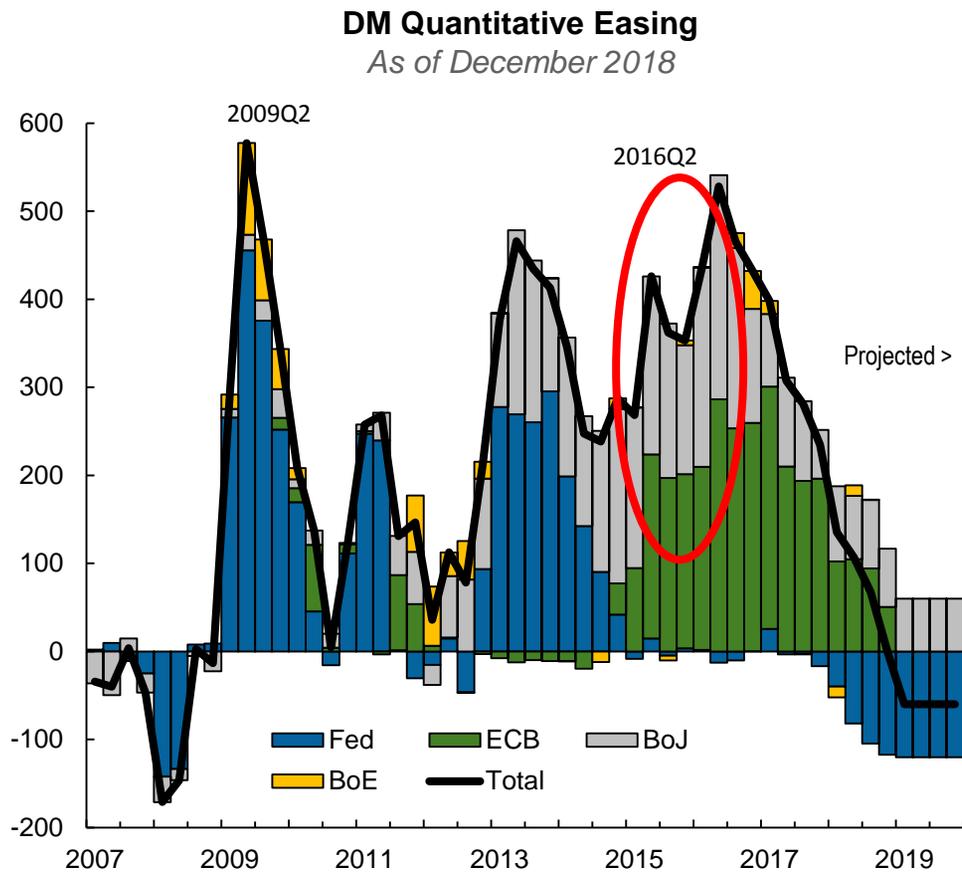


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Global Monetary Policy Spillovers As Well

- Chinese producer price inflation reflected 2016 production (not capacity) cuts, weaker RMB and aggressive policy stimulus
- Under plausible adjustments to official growth numbers, China has also led a world rebound in 2016



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Tariffs Are Costly

- Trade escalation could imply more sizeable negative growth effects in China and the U.S. than official estimates suggest
- With underlying U.S. growth buoyant, the impact on China is likely to be more noticeable, and would likely result in further policy adjustment, likely including FX
- Global fallout likely as China and the U.S. are the largest economies and have dominated global growth.

Estimates of Chinese Growth Decline from Trade War ¹

(In Percentage Points)

Sell-side analysis		
Low estimate	0.0	no indirect effects, no spillover
High estimate	2.0	Indirect effects included + spillover
Median	0.9	no indirect effects
Mean	1.1	Indirect effects included
PGIM	1.3	Value added based + indirect effects, no spillovers
Purported "Official" estimate	0.5	Value-added based
Memo item		
PGIM estimate of US GDP drag	0.7	Based on global model

¹ Assumes imposition of 25% tariff on all Chinese imports with retaliation by China along pre-announced lines. No global auto tariffs.

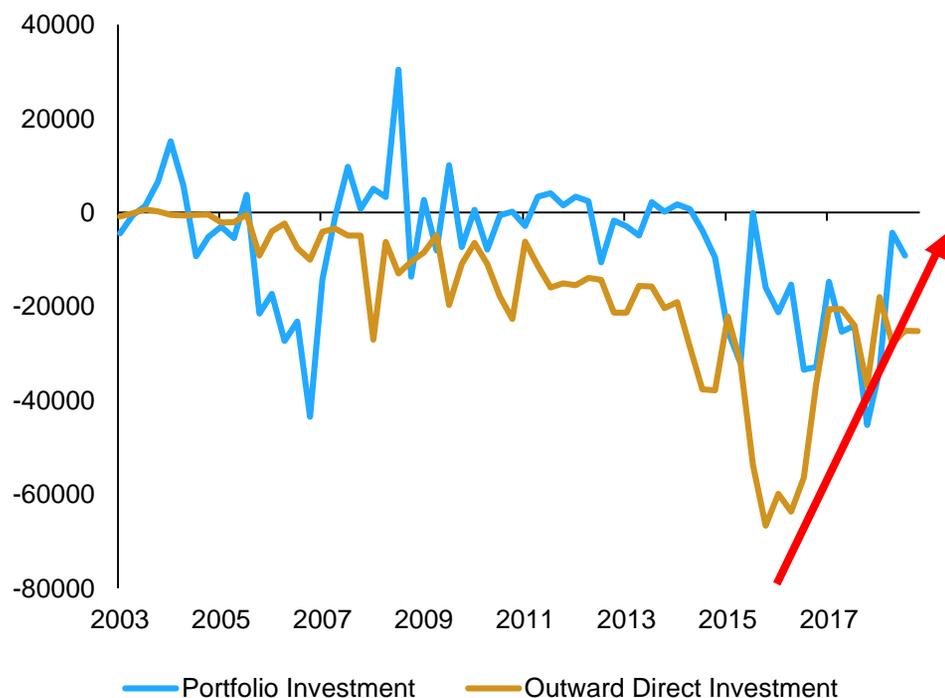


“RMB Internationalization” Or A Normal EM Story?

- We expect push and pull factors to trigger more portfolio flows to China:
 - Pull: Falling current account surplus, capital account pressures and renewed debt-driven domestic stimulus, will require capital imports
 - Push: Index inclusion should trigger passive reallocation
- Capital account controls can make this an attractive total-return proposition

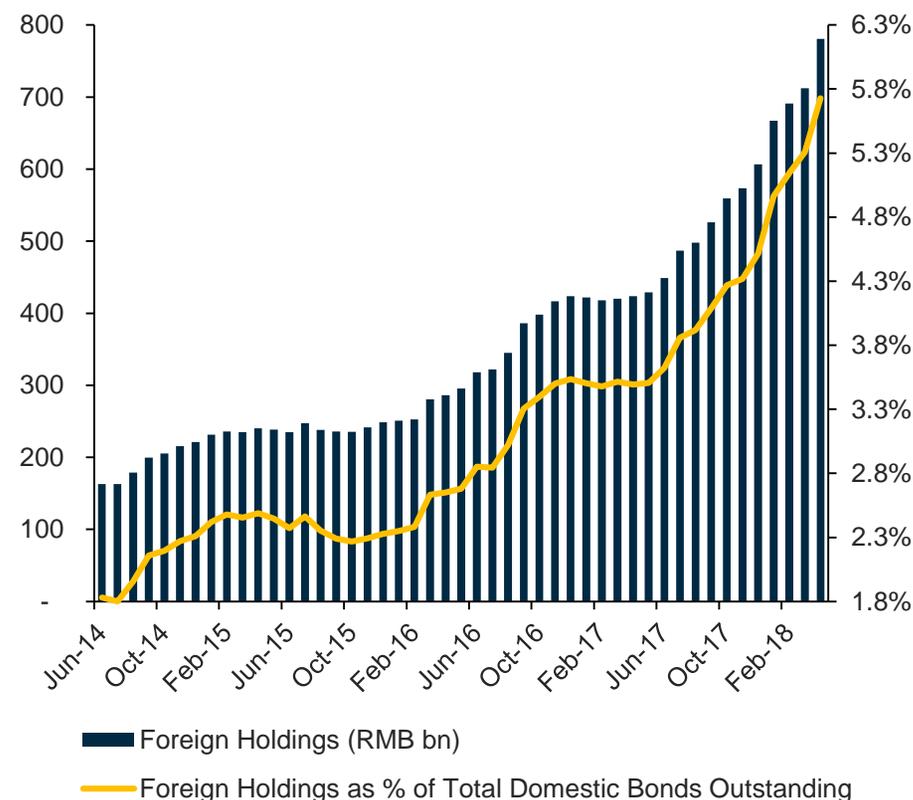
Portfolio and Outward Direct Investment (Mil.US\$)

As of December 2018



China Central Government Bonds Held By Overseas Entities

As of September 30, 2018



Source of charts: PGIM Fixed Income and Haver Analytics.



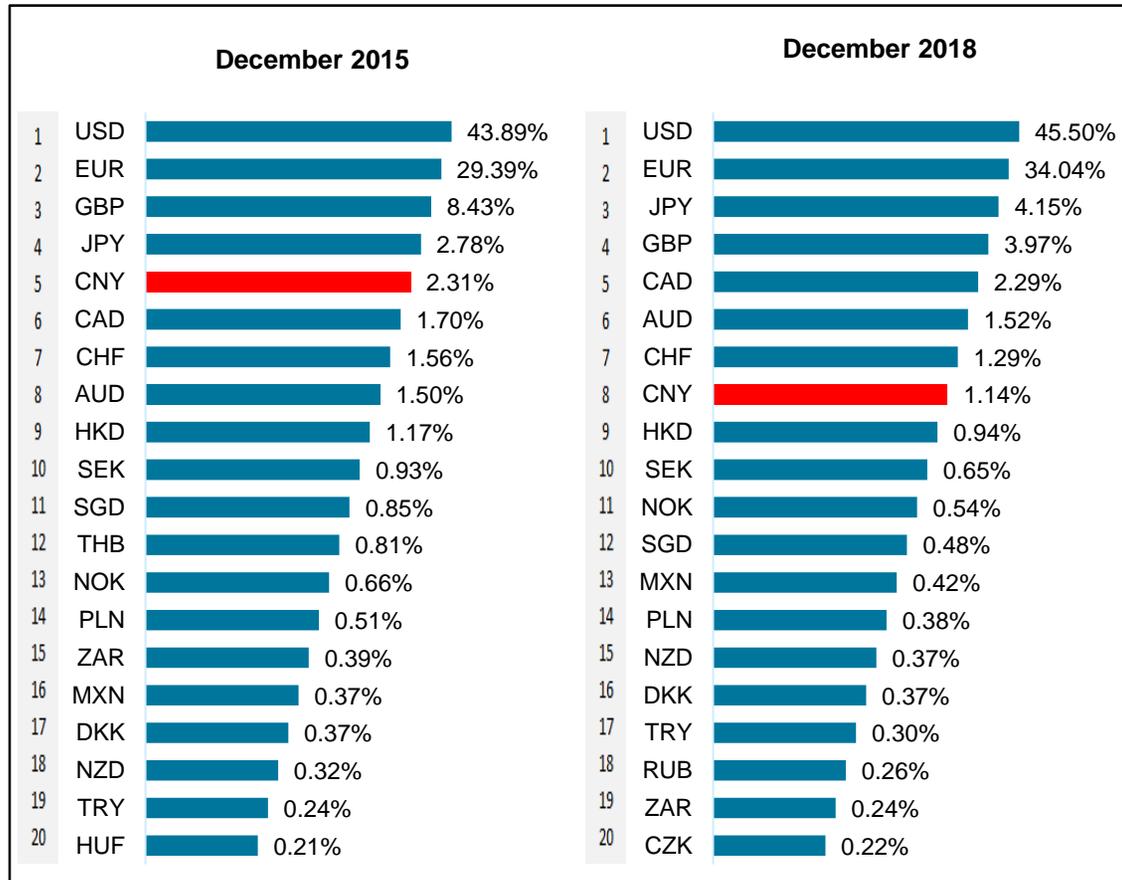
China's Global Financial Footprint Still Very Constrained

A Changing Narrative For China's Bond Market

- High Hopes for the international role of the RMB have not played out, and in contrast to earlier hopes, the RMB is still a considerable way from being a true reserve currency.
- China's already very large banking system and continued reliance on debt will further push bond market growth such that it will soon become the world's second largest.

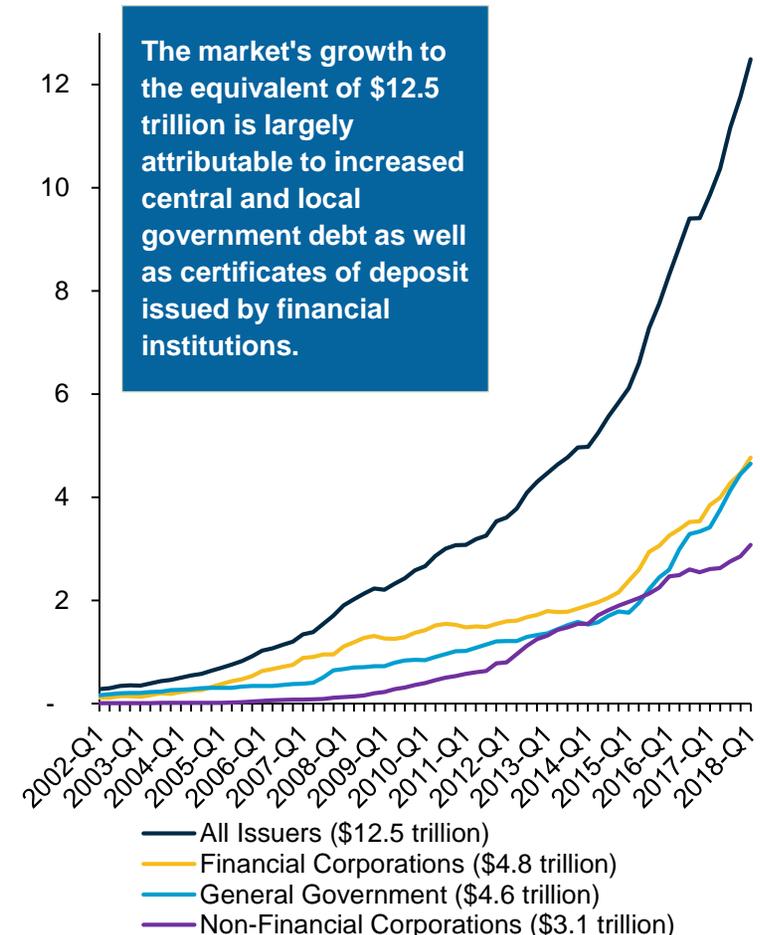
RMB's Share as an International Payments Currency

As of February 2019



Growth in China's Onshore Bond Market

As of September 30, 2018 (\$ in Trillions)



Source of charts: PGIM Fixed Income and SWIFT.

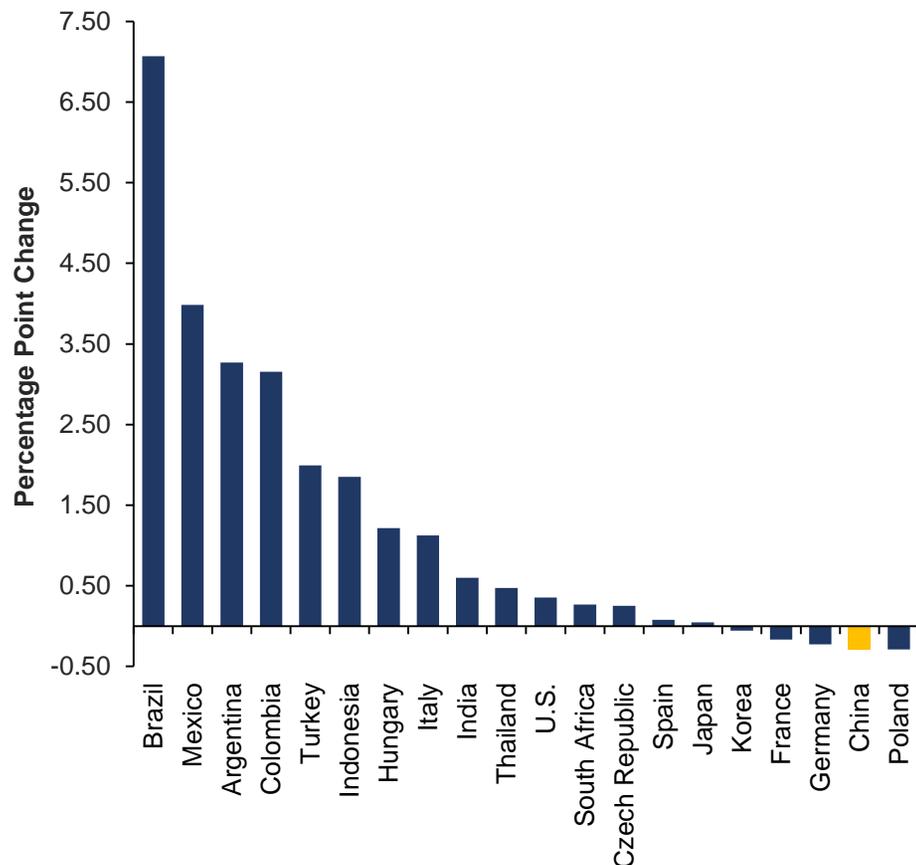


China—Effects To Be Felt In Other Markets As Well

- Index rebalancing effects can be nonlinear
- To the extent DM central banks react to China shocks, China is important beyond EM investors

China Government Debt Has Been An Outperformer Throughout Much Of 2018

Yield differential as of September 30, 2018 and January 31, 2018



Potential Composition In The JPM GBI-EM Global Diversified¹ After Inclusion

As of December 2018

Country	Current Weights %	New Weights %	Difference % (Rounded)
China	-	10.0	10.0
Brazil	10.0	10.0	0.0
Mexico	10.0	9.9	-0.1
Indonesia	9.2	9.6	0.4
Poland	8.9	9.4	0.5
South Africa	8.6	8.8	0.2
Thailand	7.8	6.5	-1.3
Colombia	7.8	6.1	-1.7
Russia	7.6	6.1	-1.5
Turkey	6.1	4.8	-1.3
Malaysia	5.4	4.3	-1.2
Hungary	4.6	3.6	-1.0
Czech Republic	4.3	3.4	-0.9
Peru	2.8	2.2	-0.6
Chile	2.6	2.0	-0.6
Romania	2.6	2.0	-0.6
Argentina	1.0	0.8	-0.2
Philippines Global	0.3	0.2	-0.1
Uruguay Global	0.2	0.2	-0.1
Dominican Republic Global	0.1	0.1	0.0

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Up-levering Once More

Policy Outlook

- Significant monetary and fiscal policy easing and renewed increases in debt to push up growth in line with target
- Expect comprehensive relaxation of real estate policy
- After a lag, a significant turnaround of Chinese economic activity and attendant support of global growth in the coming months
- Key policy objective will be to maintain low interest rates in order to mitigate debt service burden, which could well require a weaker currency and underscores the importance of currency hedges for long positions
- China will try to avoid a trade escalation with the U.S. but not give in on key structural concerns (e.g., state-directed technology upgrading, “China 2025”)

Key Markers and Risk to Keep in Mind

- Expect authorities to downplay the importance of further deleveraging
- Heightened risk of policy mistakes from capital account opening or trying to stem property cooling
- Hard landing risks are steadily increasing along the baseline path, and a transition to a positive reform scenario will become increasingly difficult
- Key markers for investors that would suggest a more positive reform picture:
 - 1) state enterprise reform (including closure of excess capacity)
 - 2) fiscal transfers to local governments
 - 3) permitting layoffs to cut capacity and defaults to redress widespread moral hazard
 - 4) downplaying of growth target
- Potential political pushback against President Xi’s omnipotent position

Be Prepared For Large Global Spillovers From China

- DM monetary policy
- Trade disputes
- Global growth (de)synchronization
- ...

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