

Integrating Monetary Policy & Financial Stability:

A New Framework

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Emerging MP Framework



Link (1): PS and FS are mutually beneficial and re-enforcing

Link (2): FC and BC are related

Link (3): Interaction between MP and MaP



How to systematically integrate Financial Stability

into the Monetary Policy framework?



1) New Indicator



How to measure FS: Aggregated level



- FC is a summary measure of financial imbalances*
- The determinants of FC are primarily cycles of credit** and asset prices

* FC (composite) is calculated by averaging 4 sub-indices: credit gap, credit-to-GDP gap, land price index gap, and house price index gap, by using CF-filter, see Drehmann et al. (2012) "Characterising the financial cycle: don't lose sight of the medium term!".

** The credit aggregate is the total credit (loan and debt securities) to private non-financial sector.



Some stylized facts on FC & BC



- Duration and amplitude of FC (red) are much higher than those of BC (blue)*
- Peaks could be used as a predictor of financial crisis
- Economic recessions are more severe during the financial crisis period



Quantification:

Probability and Magnitude of Crisis*

Forward-looking crisis probability in Thailand (1-3 years ahead)



 Crisis probability can be derived by mean of cross-country panel logistic regression



- The magnitude of FC inversely impacts the magnitude of future GDP growth
- * Data comprises 9 countries, both emerging and advanced economies, over the period of 1993-2017



How to measure FS: Disaggregated level

[work in progress]



- Ensure all pockets of risks on the radar
- Shed some light on which sectors are at risk and which type of vulnerabilities are building (that will facilitate an appropriate policy mix)



2) New Model



A Simple MP Trade-off



- In 'complementary' zone (green), policy that addresses PS would also benefit FS
- In 'opposite' direction (red), we need to analyze a trade-off between PS and FS

*Projected path (2018 Q1 -2019 Q) for FC is consistent with 4-6% credit growth and historical house price growth.



Model Development: Model platform



- Important features
 - 1. Bridge FS risks with economic and inflation projection
 - 2. Assess different policy tools



Framework for Trade-off Analysis





3) New Policy Tool



Incorporating Macroprudential Policy





3. is well-suited to address structural risks

- "Too big to fail" financial institutions
- Interconnectedness within the financial system





Coordination of Policy Tools: complementary*

Evaluate cost and benefit of of each policy in

dealing with periods of housing boom**

Benefits in lowering mortgage growth





Costs to economic growth

How have policy trade-offs changed?



* Calculated from the DSGE model

** Benefits and costs calculated from cumulative over 4 quarters compared to the benchmark case (Taylor rule)



Decision-making Process

STEP 1 FS risks assessment

- Source of financial imbalances ?
- Development of financial imbalance going forward ?
- Potential consequence on the economy ?



- Effectiveness of Policy Tools
- Costs and benefits analysis:
 [-] Decelerating economic growth in the short run
 [+] Stability in financial sector, leading to sustainable growth



- Balancing 3 objectives:
 (i) Price stability
 (ii) Economic growth
 (iii) Financial stability
- Deployment of policy package



Summary

- 1. FS is an integral part of the new MP framework
- 2. Developments of analytical tools are necessary for an effective integration
- 3. Coordination between MP and MaP is at the heart of the decision-makings



Thank You