Monetary Policy, Macroprudential Policy, and Financial Stability: Session Discussion

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May 8, 2013

The views expressed here are my own and do not necessarily reflect the views of the Board of Governors or the staff of the Federal Reserve System.

Session papers

- Risk Channel of Monetary Policy
 Oliver de Groot, Federal Reserve Board
- Intermediary Leverage Cycles and Financial Stability
 Tobias Adrian, Federal Reserve Bank of New York
 Nina Boyarchenko, Federal Reserve Bank of New York
- Imperfect Information, Lending Standards and Capital Requirements
 - Pedro Gete, Georgetown University
 Natalie Tiernan, Georgetown University

Macroprudential policies and systemic risk

- Macroprudential policies:
 - Aim to prevent episodes of financial instability from occurring
 - Foster financial stability by *limiting* the build-up of risks that are conducive to crises erupting – called "systemic risks"
 - Differ from crisis management policies in being preventative
- Limiting the build-up of systemic risks is the principal objective of macroprudential policies
 - Although other policies such as, monetary policy that have broader objectives can also affect systemic risk
- Systemic risks can be:
 - Structural present irrespective of macro conditions
 - Cyclical emerge in buoyant macro conditions

Macroprudential policies and systemic risk, cont'd

- The papers in this session consider both structural and cyclical systemic risks
- De Groot considers how the systematic component of monetary policy influences banks' use of leverage in the steady-state and how this in turn affects the impact of shocks to the economy
- Adrian & Boyarchenko (A&B) and Gete & Tiernan (G&T) consider vulnerabilities that build up under buoyant conditions
 - A&B consider banks' increased use of leverage in good times –
 when the volatility of the return to holding capital is low
 - G&T consider banks' declining lending standards in good times –
 after a long sequence favorable income shocks

Macroprudential policies and systemic risk, cont'd

- All three papers consider important macroprudential policy questions
- Adrian & Boyarchenko show how intermediary distress probability and consumer welfare are affected by different (time-invariant) risk-based capital constraints
- Gete & Tiernan show how banks' capital levels could be varied based on how favorable the underlying state of the economy is perceived to be so as to curb declining lending standards
- De Groot shows how adding macroprudential elements such as leverage and credit spreads – to a monetary policy rule can impact steady-state leverage and the economy's response to shocks

Modeling financial intermediation

- In all three papers banks/FIs issue non-contingent riskless shortterm debt (and in two papers explicitly to households)
 - Banks/FIs issue a security akin to deposits
- However, in all three papers banks/FIs ultimately hold a security –
 issued by nonfinancial firms that represents a state-contingent
 claim to the firms' future returns on capital investment
 - Banks/FIs do not hold loans per se
 - This simplification seems to have become standard
 - A&B also allow households to hold this security (that is, directly-granted financing), though households cannot make new capital
- Does the state-contingent security simplification detract from any of these papers' conclusions?

Modeling financial intermediation, continued

- The simplification may be less of a concern if the liabilities side of banks'/FIs' balance sheet is the main the focus of a paper
 - That said, the simplification may make some comparisons between model and empirical results less persuasive
 - For example, Adrian's & Boyarchenko's comparison of cyclical movements in the share of intermediated credit
- The simplification may be more of a concern if the assets side of banks'/FIs' balance sheet is the main the focus of a paper
 - In Gete & Tiernan the simplification affects the relation between (estimated) aggregate income shocks and bank profits, a bank's choice of standards, and potentially more of the paper's results

Modeling financial intermediation, continued

- The papers take various approaches to introducing bank equity
- In G&T, banks/FIs face a fixed leverage constraint
- In A&B, banks/FIs face a risk-sensitive leverage constraint, where equity is required to cover a fraction of losses on assets
- In De Groot (as in Gertler et al.), banks/FIs hold self-owned (inside)
 equity to offset the fact they can divert a fraction of their assets
 - The model also has household-owned (outside) equity, although this raises the fraction of assets that banks/FIs can divert
- In practice, banks/FIs hold equity even without regulatory riskbased requirements and there are ad hoc elements to Gertler et al.'s modeling of the fraction of assets that banks/FIs can divert
 - Motivating bank equity in an optimizing way is clearly difficult