Discussion of Welfare Analysis of Implementable Macroprudential Policy Rules: Heterogeneity and Trade-offs by C. Mendicino, K. Nikolov, J. Suarez & D. Supera

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P. Reichlin Discussion of Welfare Analysis of Implementable Macroprude

- Provide a computable GE model with banking
- ..to test welfare implications of Macro-Prudential Policies (MAPRU)
- essentially: examine effects of changing capital requirements and making them sensitive to cycles

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A very challenging task:

- A lot of heterogeneous agents (savers, borrowers, entrepr., bankers)
- A lot of market failures (limited liability, dep. insurance, CSV, collateral requirements)
- Idiosyncratic and aggregate shocks

Scope for Micro-Prud. Policy (MIPRU):

Make financial system safer - There are incentives to take excessive risks and to shift losses to tax payers (Moral Hazard) \Rightarrow Capital Requirements

Why do we need MAPRU?

If all banks comply with MIPRU through asset shrinkage \Rightarrow systemic effects (credit crunch, fire sales, systemic effects) -Pecuniary externalities arising from general equilibrium with distortions

Then, MAP plays a role if optimal MAP \neq optimal MIP

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How does this paper address MAPRU?

It does because it is a general equilibrium model: takes into account effect of MIPRU on total credit, **but**

- Limited policy tools (only cap. ratios)
- Model generates limited endogenous effects on asset prices
- Most of the effects arise from big default costs (30% of assets)

Still very interesting exercise and sufficiently complex

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Key conjectures in current debate on cap. ratios

- Banks' current capital ratios are too low, too much risk is shifted to taxpayers (MH from deposit ins., too big to fail banks, non-internalized costs of fire sales,..)
- Higher capitalization reduces these costs, make depositors safer and less nervous (reduces prob. of bank runs)
- BUT: higher cap. ratios reduce lending. Or not?
- Not clear. Reducing risk adds value and make banks' equity more attractive!

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Arguments supporting view that higher cap. ratios generate less lending

- THIS PAPER: Equity is in limited supply (inside equity)
- NOT IN THIS PAPER: Deposits offer liquidity services -Higher cap. ratios reduce supply of liquidity, although deposits liquidity depends on banks being safe

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- Deposit insurance paid for by taxpayers
- Depositors are not totally immune from banks failures: they suffer a bit from banks default
- Housing is used as collateral
- Debt contracts are based on CSV (shocks on borrowers' revenue are private info.)

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Key Assumptions in this model (2)

- Households (savers and borrowers) are risk-averse but they are fully insured against diversifiable risks
- They have access to bonds only (no equity)
- Supply of equity is provided by risk-neutral OLG of "entrepreneurs" and "bankers"
- These OLG agents produce equity capital and "donate" dividends to households

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- Limited Liability + Deposit Insurance ⇒ banks and firms' leverage too high ⇒ too much default
- Higher cap. ratios ⇒ less default, less taxes, higher lending spreads (good for lenders)
- Since equity is scarse, higher cap. ratios and higher lending spreads ⇒ less welfare for borrowers eventually

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- Raising cap. ratios is almost always good because there is a lot of moral hazard
- But "bankers" have a point when they complain about regulation: too high cap. ratios may reduce investment
- Counter-cyclical cap. ratios not very beneficial (business fluctuations have small welfare costs (as in Lucas ('03)?)

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- Admati-Hellwig would say: there is no reason why a higher cap. ratio should reduce lending as lending depends on total banks liabilities
- But they assume that equity and other assets are substitutable (outside equity)
- In this model savers cannot use part of their wealth to buy banks' equity

I think that this should be better justified: limited participation, transaction costs, benefits from control,..?

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- Deposit insurance plays big role but not well justified (no bank runs, diversification across banks is possible)
- Households are risk averse but receive dividends from risk-neutral OLG "agents" - With risk-averse OLG bankers, return on equity would depend on cap. ratios
- Not clear that CSV justifies optimality of standard debt contracts since aggregate shocks are observable - Equity contracts may be better

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Why not testing effects of other policies?

- Let the government make transfers, buy assets
- Let banks pay for deposit insurance
- Tax dividends

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