

Discussion of “Should banks be worried about dividend restrictions?”

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Banking and Financial Stability Workshop - Santiago 2024

Research question and main results

- After GFC: new counter-cyclical capital requirements
 - ▶ goal is for banks to build up a capital buffer in good times...
 - ▶ and use it to absorb losses in bad times

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A: Without commitment, optimal capital regulation looks like **single and fully releasable buffer**

Model - key features

- Households:
 - ▶ supply labor inelastically, buy stocks and one-period bonds of banks
- Banks:
 - ▶ fund themselves with retained earnings (equity) and debt
 - ▶ extend loans to firms
 - ▶ frictions:
 - * exogenous fraction of them exit each period $\Rightarrow \uparrow$ required return on equity
 - * no-default constraint: requires some $\theta \times \text{lending} \leq$ discounted dividends
- Firms:
 - ▶ borrow from banks, produce final good, pay wages, repay loans, consume, exit
- Regulator:
 - ▶ seeks to achieve constrained efficiency...
 - ▶ under a **time-consistency restriction** (\neq Schroth 2021)

Results

- Limited commitment cuts short length of time regulator can limit dividends
- Despite credibility concerns, regulator is able to avoid severe crises...
- but intermediate credit crunches are substantially more frequent
 - ▶ compared to decentralized equilibrium and full commitment case
- Main **policy take-away**: time-varying buffers are best
 - ▶ constant buffer \Rightarrow dividend restrictions \Rightarrow undermine credibility
 - ▶ actually optimal to allow banks to pay dividends even during crisis

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- My **discussion** focuses on:
 - ① nature of firms in the model and the welfare measure
 - ② policy instruments and banks' endogenous response
 - ③ clarity of theoretical mechanisms
 - ④ some minor points

Comment 1: firms and the measure of welfare

- Measure of **welfare** in the paper: **households' discounted utility**
- In the paper, firms are like another type of (myopic) “household”
 - ▶ maximize one-period linear utility, **eat their profits** and exit
- Firms are not owned by households (only banks are)

Q: Why don't firms' profits count for welfare?

Q: Why not have households own shares of firms?

- ▶ even if not tradable, to keep it simple
- ▶ or add up household utility and firm profits with some Pareto weights

Comment 1: firms and the measure of welfare (cont.)

Why could this change in the welfare measure potentially matter?

- Firms receive loans from banks (k), who collect resources from households
- They face a profit non-negativity restriction for each productivity shock
 - ▶ so they probably get strictly positive profits sometimes
- Hence, they are “draining” resources from households that disappear with them and don’t enter the welfare measure
- W_{CE} impacts time-consistency constraint of regulator, critical in the paper

Comment 2: the nature of regulation

- Regulator in the model lacks commitment, but in a sense is still very powerful
 - ▶ “central planner”, chooses a path for all choice variables of relevance
 - ▶ although it must comply with an additional time-consistency constraint
- Instead, regulator could have a couple of **policy instruments** at hand (capital requirements, dividend restrictions)
- ...but banks could respond, maximizing their own profits in a decentralized equilibrium
- Studying **implementation** would strengthen the analysis

Comment 3: connecting equations and intuitions

- Paper could dig deeper into mechanisms **using the model**
- Could improve connection between **explanations** of mechanisms and **equations**

A few examples:

- ① **Pecuniary externality** (tightening of market-based leverage constraints)
 - ▶ where in the model can we see this operating?
- ② **FOC of regulator's problem** is left in terms of partial derivatives of W , W_{CE}
 - ▶ effects discussed under that FOC are hidden
 - ▶ this is the only theoretical result presented, and could be further explored (sharpen theoretical insights particular to the no-commitment setting)

Comment 4: calibration and robustness

Q: Are results sensitive to the calibration, in general?

- ▶ Results in the paper are mostly numerical
- ▶ Renders calibration and numerical computation very important
- ▶ Yet, not much robustness

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Some specific concerns:

- 1 No capital accumulation; depreciation modeled in reduced form:

$$\text{Production function: } zk^\alpha n^{1-\alpha} + (1-\delta)k$$

Q: Calibration sets δ to match replacement **investment**. Good mapping?

- 2 Part of analysis focuses on a particular realization of shocks

Q: How general are the conclusions regarding dividend payments in crises?

- 3 i.i.d. productivity shocks buy tractability, but persistence might be important

Other minor points

- **Title:** perhaps not the most informative title for the paper?
 - ▶ Paper is really about optimal, time-consistent capital regulations
 - ▶ Concerns mostly what policymakers should be worried about, not banks
- **Exposition:** more accurate description of what is done at the introduction
 - ▶ model's key features, numerical results, etc
- **Data description:** very little detail given

Conclusion

- Credibility of regulatory bodies is an issue in many contexts
- Very pertinent question, great potential to shed further light on macroprudential regulation

Main comments:

- Paper could take better advantage of formal model to derive intuitions
- Would benefit from adjusting (or better defending) measure of welfare
- Studying implementation would broaden scope of paper and make it even more policy relevant

Looking forward to future iterations!