Discussion of:

Deposit Insurance, Bank Regulation, and Narrow Banking

by S. Williamson

Todd Keister Rutgers University

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A common narrative

- It is important for bank deposits to be safe ...
 - for a variety of reasons
- ... and therefore we need deposit insurance
- However, insurance distorts banks' incentives (\rightarrow too much risk) ...
- ... so we need to closely regulate and supervise banks
 - which is difficult to do well, and is quite costly
- Perhaps it would be better to have *narrow banks*
 - that hold only safe, liquid assets (ex: reserves at the central bank)
- This paper: evaluate this narrative from a new angle
 - shows: features of deposit insurance are important for the answer

A framework

- Starting point: a monetary general equilibrium model where:
 - bank deposits are used as a medium of exchange
 - frictions \Rightarrow deposits must be backed by assets
 - transactions cannot be financed by "pure" bank credit
- Such models are favorably inclined toward narrow banking
- If the supply of safe assets is "naturally large" ...
 - think: large stock of govt debt for fiscal purposes
- ... then having banks hold only safe assets is efficient
 - no need for deposit insurance (or costly bank capital)
 - no benefit here to tying deposit-taking and lending together

- Assume instead: the supply of safe assets is limited
 - > and much smaller than the demand for deposits as a medium of exchange
- ⇒ Requiring all banks to be narrow restricts deposit creation
 - which limits transactions, real activity; lowers welfare
- Note: different from the usual case against narrow banking
 - usual case: if banks can only hold safe assets \rightarrow too little credit, investment
 - here: investment can be financed efficiently in other ways (private credit)
 - if banks are narrow \rightarrow there will be *too few deposits*
 - we need banks to lend as *side effect* of creating deposits
- To make this point in a sharp way: bank lending has a negative NPV
 ⇒ without the demand for deposits, these loans would not be made

Q: In this environment where creating deposits is difficult ...

- ... what is the optimal composition of assets in the banking system?
- what combination of safe vs. (less-desirable) risky assets?
- how should those assets be allocated across banks?
- how do features of the deposit insurance system affect the answer?

A benchmark

- With no incentive problems \rightarrow answer would be straightforward
 - all safe assets should be held by banks
 - best alternative use is only as a store of value
 - create additional deposits backed by risky assets until the marginal cost ...
 - equals the marginal benefit of deposits in supporting economic activity

Results:

- we want the banking system to hold a mix of safe and risky assets
 - ▶ so ... requiring banks to be narrow is bad
- insuring deposits is important \rightarrow supports more real activity
- how the assets are distributed across banks does not matter
 - allowing banks to specialize in either direction is completely neutral

Moral hazard?

- Back to the common narrative: DI distorts banks' incentives
- Paper adds: hidden effort (e) for risky assets
 - in bad aggregate state: assets are worthless with prob. $\alpha(e)$
- Banker uses deposits plus own funds (capital) to invest
 - ▶ high effort is optimal \Leftrightarrow bank capital is large enough
- Deposit insurance premium cannot be conditioned on effort ...
- ... but it can be conditioned on the bank's choice of capital
 - which (in equilibrium) reveals what the effort level will be
- ⇒ Deposit insurance does not distort incentives
 - results are unchanged from the benchmark case

- There is also an incentive problem for safe assets
- Instead of buying govt bonds, bank can create "fake" bonds
 - cost ψ to create; will be worthless for sure
 - **b** banker can use deposits to pay cost ψ , keep the difference
 - represents ... outright lies? Subprime CDO² ?
 - most difficult element of the model for me to interpret
- Solution is again for the banker to hold capital
 - ▶ will buy real bonds ⇔ bank capital is large enough
- Key issue: is this cost ψ the same for broad and narrow banks?
 - or does it differ by bank type? In which direction?

- If ψ is the same for narrow and broad banks:
 - distribution of assets across banks is again irrelevant
- If friction is smaller in narrow banks:
 - ▶ all safe assets will migrate to narrow banks (and welfare ↑)
- If friction is larger in narrow banks:
 - narrow banks are not viable in equilibrium ...
 - ... unless broad banks face binding leverage constraint (\rightarrow inefficient)
- These results are interesting, intuitive
 - key takeaways depend on which case we focus on
- Q: What are the most relevant case(s)?

Comments

- 1. Narrow or shadow banks?
- 2. Regulation and supervision
- 3. A capital requirement?

1. Narrow or shadow banks?

- What are the most relevant case(s)?
- Paper argues that frictions are likely *larger* in narrow banks
 - benefit of narrow banks: we don't need this costly regulation
 - but if they are unregulated, frictions might be large

"[P]roponents of narrow banking ... assume that a portfolio of safe bank asset holdings is essentially costless to monitor. However, stablecoin arrangements ... can be fraught with issues of misrepresentation."

- But ... is Tether a narrow bank? Or a *shadow bank*?
 - > assets include corporate bonds, precious metals, Bitcoin, etc.

https://tether.to/en/transparency/?tab=reports

Could a modified model be used to think about shadow banking?

A model of shadow banks?

- Suppose deposit insurance cannot be priced efficiently
 - so it ends up distorting incentives
- Define "shadow bank" as no deposit insurance
- Q: Should we allow shadow banks to operate?
 - could hold capital to mitigate information frictions (as in the model)
 - what asset portfolio would they hold? (would they look like Tether?)
- Could such a model address:
 - the optimal composition of banking between regulated and shadow banks?
 - the size/boundary of the safety net?

2. Reg/Sup

- Important to distinguish between *regulation* and *supervision*
- I think most proponents envision narrow banks being *regulated*
 - > any institution taking deposits in the U.S. is regulated
- But narrow banks should be much easier to *supervise*
 - simpler rules; much easier to verify compliance (I think)
- The relevant case to me is *smaller* frictions in narrow banks
 - \Rightarrow efficient for all safe assets to be held in narrow banks
 - best way to intermediate safe assets into deposits
- Logic is clear, but ... are we comfortable with this answer?

- Suppose (again) deposit insurance cannot be priced perfectly
- Q: Would moving all safe assets out of broad banks cause problems?
 - their asset portfolio becomes riskier on average
 - deposit insurance needs to play a bigger role
 - even bigger moral hazard?
- Could a model like this address:
 - the optimal division on safe assets between broad and narrow banks?
 - whether allowing narrow banks to operate is somehow undesirable?

3. No capital requirements?

- Paper emphasizes: no role for capital regulation ...
 - "in this environment, government-imposed capital requirements at best have no effect, and at worst reduce welfare."
- But ... the DI premium depends on bank's choice of capital

Two interpretations:

- 1. We don't need capital requirements
 - banks will voluntarily choose to hold the efficient amount of capital
- 2. There <u>is</u> a minimum capital requirement
 - penalty for falling below the requirement is a higher DI premium
- These two interpretations seem ... equivalent?
 - put the second way \rightarrow result seems more conventional

Wrapping up

- Paper presents an interesting framework
- ... that can be used to study a range of issues
- If deposit insurance is priced perfectly:
 - b do not want shadow (uninsured, risky) banks to operate
 - but allowing narrow banks to operate may raise welfare (my take)
- If not ... what happens? Do the answers change?
 - might we want shadow banks to be available as an option?
 - b do narrow banks become more worrisome?
 - are there other interesting questions here?