

Discussion of:

*Limiting Global Financial Instability with
Limited Purpose Banking*

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Limited Purpose Banking (LPB)

- ▶ Recent events have highlighted the need for financial reform
 - ▶ Many “incremental” approaches have been suggested/debated
 - ▶ LPB is an ambitious proposal that aims to prevent the failure of financial institutions by requiring either:
 - ▶ 100% cash reserves (for a deposit-taking institution), or
 - ▶ 100% capital (all other intermediaries are mutual funds)
 - ▶ Also aims to promote transparency
 - ▶ A Federal Financial Authority (FFA) will vet all lending activity
 - ▶ Assets held by any limited-liability financial institution will be fully disclosed
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- ▶ Would it be better to adopt LPB or an “incremental” proposal?
 - ▶ For example: tighter capital requirements and leverage ratios
 - ▶ A strong case is made in favor of LPB, but
 - ▶ LPB is a big change; involves substantial uncertainty
 - ▶ I would like to see a systematic evaluation of costs and benefits
 - ▶ This is difficult to do (more so than for an incremental proposal)
 - ▶ I think some subtle issues arise; requires careful thinking
 - ▶ My discussion: focus on some of these issues
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- ▶ One way to frame the issue:

$$E[W] = (1-q)W(\text{no crisis}) + qW(\text{crisis})$$

- ▶ Ask how LPB would likely affect each of the 3 terms

1) q

2) $W(\text{crisis})$

3) $W(\text{no crisis})$

- ▶ Would LPB improve welfare in all three dimensions?
 - ▶ That is, is it win-win-win? Or are there tradeoffs?
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$$E[W] = (1-q)W(\text{no crisis}) + qW(\text{crisis})$$

(1) Effect on the likelihood of a crisis (q)

- ▶ Financial crises are a hardy perennial
 - ▶ Difficult to imagine eliminating them altogether
 - ▶ LPB would clearly have some stabilizing effects
 - ▶ Removes some factors that are common contributors
 - ▶ Leverage, maturity transformation in financial intermediaries, failure of (limited-liability) financial intermediaries
 - ▶ However, crises can occur in the absence of these features
 - ▶ Consider the following example ...
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Auction Rate Securities (ARS): An instructive episode

- ▶ Long-term debt whose interest rate was reset regularly via an auction process
 - ▶ Current investors decide how many shares to redeem
 - ▶ New investors place bids for these shares
 - ▶ Role of the auction process: maturity transformation
 - ▶ Issuer is borrowing long term, but
 - ▶ Investors can sell at any auction (like a short-term investment)
 - ▶ Issuer pays a short-term rate
 - ▶ The Auction Rate Securities market was over \$300b in 2007
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- ▶ An auction *fails* if there are fewer bids than investors seeking to redeem shares
 - ▶ Interest rate resets to a prespecified rate until next auction
 - ▶ Sponsoring bank could step in and purchase shares, but was under no obligation to do so
 - ▶ ARS seems to be entirely consistent with LPB
 - ▶ No debt or explicit backstop is issued by a financial firm
 - ▶ Example of the type of arrangement that may arise under LPB
 - ▶ What happened during the crisis?
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- ▶ Some auctions related to CDOs began to fail in August 2007
 - ▶ By February 2008, most auctions were failing
 - ▶ Even for high-quality debt
 - ▶ New issuance of ARS stopped entirely
 - ▶ Outcome resembled a bank run
 - ▶ Investors feared future auctions would fail, “ran” from current ones
 - ▶ Investors lost liquidity (some faced real financial distress)
 - ▶ Some issuers ended up paying high penalty rates (~20%)
 - ▶ New issuance stopped → a credit crunch
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- ▶ Point: Financial panics are possible without banks or debt
 - ▶ The hardy perennial seems likely to appear in some form
 - ▶ LPB would generate a strong incentive for financial innovation
 - ▶ Crises often follow periods of strong financial innovation
 - ▶ Conclusion:
 - ▶ Would LPB decrease the likelihood of a crisis?
Maybe, but ... it is difficult to be sure
 - ▶ Conservative approach: treat q as being equal across regimes;
ask how they compare in the two W terms
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$$E[W] = (1-q)W(\text{no crisis}) + qW(\text{crisis})$$

(2) Effects on $W(\text{crisis})$

- ▶ What would a financial crisis under LPB look like?
 - ▶ Thinking of the ARS example, it could involve:
 - ▶ Falling asset prices, “frozen” markets in which selling is costly
 - ▶ A credit crunch (sharp decline in new issuance, rollover)
 - ▶ But not:
 - ▶ Uncertainty about the solvency of financial intermediaries
 - ▶ Uncertainty about who will bear the losses
 - ▶ Debt overhang for financial intermediaries
 - ▶ Suggests $W(\text{crisis})$ may be lower under LPB
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- ▶ But ... are there other concerns?
 - ▶ Ex: would household/firm bankruptcy increase substantially?
 - ▶ Suddenly holding illiquid assets; have to pay mortgage or other obligations
 - ▶ **Conclusion:**
 - ▶ LBP has some real benefits – seems likely to raise $W(\text{crisis})$
 - ▶ Quantitatively this effect seems likely to be large
 - ▶ But I would like to have a better picture of what a crisis under LPB might look like
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$$E[W] = (1-q) W(\text{no crisis}) + q W(\text{crisis})$$

(3) Effects on W (no crisis)

- ▶ This may actually be the most difficult of the three terms
 - ▶ There are many ways in which LPB *might* lower efficiency in normal times
 - ▶ 100% reserve requirement → fewer funds available for lending
 - ▶ Fully funding credit lines → more expensive credit lines
 - ▶ No debt → market-making more expensive → higher transaction costs
 - ▶ Financial innovation and general equilibrium effects may offset many of these potential costs
 - ▶ But I worry that some efficiencies may nevertheless be lost
 - ▶ An example ...
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Ways to buy a 20-year, fixed premium, life insurance policy

(1) Buy shares in a 20-year life insurance fund

- ▶ Pay the entire premium in advance
- ▶ Wait until the end of the 20-year period for payouts

(2) Buy shares in two short-term (say, 3 month) funds

- ▶ One for life insurance during the 3-month period
 - ▶ Another for changes in *insurability* during the period
 - ▶ Verify both outcomes at the end of the period
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- ▶ Relative to the current situation:
 - ▶ Approach (1) increases the credit burden on households
 - ▶ Approach (2) increases information-gathering costs
 - ▶ Both seem to entail a non-trivial loss of efficiency
 - ▶ This is one example; is it representative in any way?
 - ▶ I wonder what other costs may arise
 - ▶ **Conclusion:**
 - ▶ LBP may lower $W(\text{no crisis})$, but is this effect large or small?
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Conclusion

- ▶ Adding things up:

$$E[W] = (1-q)W(\text{no crisis}) + qW(\text{crisis})$$

- ▶ Preliminary, very rough guess is that LPB would be:
 - ▶ Costly in the no-crisis state
 - ▶ Beneficial in the crisis state
 - ▶ Desirability depends on the sizes of these costs/benefits...
 - ▶ **and** on the value of q , which is difficult to pin down
 - ▶ How can we get quantitative estimates of these effects?
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Summing up

- ▶ LPB is an interesting proposal worthy of serious study
 - ▶ Offers some real benefits ... but brings significant uncertainty
 - ▶ I am skeptical of eliminating financial crises altogether
 - ▶ Therefore, a thorough cost-benefit analysis is needed
 - ▶ I would like to see some issues fleshed out in more detail
 - ▶ What would the financial system look like under LPB?
What innovation would arise? What would a crisis look like?
 - ▶ How large are the efficiency costs in normal times?
 - ▶ Doing so is very difficult, but ...
 - ▶ Otherwise ... I might prefer to focus on taming the devil we know
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