Mortgage borrowing caps - leverage, default and welfare João G. Oliveira, Bank of England; Leonor Queiró, Banco de Portugal – **Discussion**

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Overview

Research question

What are the effects of implementing LTV and PTI limits on mortgage borrowing? Strategy

- Admin data to measure precisely distribution of LtV and PtI in new originations
 - \rightarrow Focus on policy change in Portugal implementing 90% LtV and 50% PtI limits (free(?) before)
- Rich quantitative model to predict impact on household debt and default rates and welfare effects
 - → GE open economy, rich housing sector, endog. mortgage rates
 - → Replicate policy in model environment

Overview

Main results

- Empirical:
 - → Policy leads to substantial bunching at the 90% LTV limit
 - \rightarrow PTI limit not binding for most borrowers
- Model predictions for policy effects:
 - \rightarrow Steady-state: zero defaults and mortgage debt stock \downarrow 48% \rightarrow 33% of GDP
 - → Also in event of house price crash
 - \rightarrow PTI implemented alone actually *increases* leverage (due to "pre-emptive borrowing")

This discussion

- Thinking about "pre-emptive borrowing" and the effects of PTI
- Suggestion to make model exercise more focused on explaining the cool data

Described in experiment where:

- LtV cap stays at 120%
- PtI only restricted at 50%

Model results:

- Increases in outstanding debt (48% to 50% GDP)
- Virtually no impact on defaults and interest rates
- Increase in home ownership rate

Bold claim!

4

Described in experiment where:

- LtV cap stays at 120%
- PtI ~only restricted at 50%~ further restricted to 30% (~US level)

Model results:

- Increases in outstanding debt (48% to 50% GDP)
- Virtually no impact on defaults and interest rates Big drop in defaults
- Increase Decrease in home ownership rate

Bold claim! Especially since deeper restrictions lead to some different results

The mechanism

Tightening PTI constraint makes HHs borrow more for precautionary reasons:

- PTI cap only required at origination
- Adverse income shocks may make PtI constraint bind in the future
- Idea: borrowing more today expands consumption possibilities tomorrow

Complex tie-in with housing choice

- Borrow "earlier"
 - \rightarrow \rightarrow buy earlier? Could also mean move up earlier?
- With "lower down payment"
 - → What if already LtV constrained?
 - → (What about buying larger?)

6

In isolation, mechanism obviously makes sense. Additional borrowing constraint. When should we see behavior?

- Benefit of expanding consumption possibilities (in low income states) should outweigh costs:
 - \rightarrow More interest payments
 - \rightarrow More **committed** income to mortgage payments (mandatory repayment)
- Further, these costs should be smaller than the alternative of simply consuming less in present
- Presence of mechanism issue of measuring, quantitatively
 - → Would be good to see numbers, maybe simple example

When should we see behavior?

Also helpful to think of constrained agents *ex ante*:

- Those who are already PtI constrained at 120%
 - \rightarrow Also, isn't there a natural PtI constraint?
- Borrowers who are LtV constrained probably have no interest in borrowing more:



In who should we see behavior?

- Rich model with life cycle, income risk
- Might see "pre-emptive borrowing" in some parts of the distribution:
 - → Age; income; initial wealth/transfer
- Needed to quantify relevance of mechanism

9

Rich granular data

Distribution of PtI and LtV at origination

• As it stands data limited by lack of borrower characteristics, but still very cool

The paper now:

• Predict several effects of policy in a very rich environment, data only to compare/validate calibrtion

What it could be:

- Explain shift in PtI and LtV distribution as a result of policy
 - \rightarrow Establish causality, though probably easy empirically (bunching estimator?)
 - Decomposition of drivers, measure distributional effects
 - Empirically validate "pre-emptive borrowing"

Rich granular data

Focus on income risk:

- Proposed mechanism relies on link between income risk and borrowing constraints
- It does raise interesting questions e.g.:
 - → Potentially, PtI at origination is a bad test because initial income poor predictor of borrowing capacity
- Would require more detail and focus on properties of income process
 - \rightarrow But could drop some other complications
 - \rightarrow E.g. endogenous pricing of mortgage rate and relative price (production)

Smaller comments

- Would be nice to see raw data rather than only kernel density estimates
- In welfare terms households do not "benefit from lower rents" as landlords suffer
 - → Paper says 92% of housing stock is owned by resident hhs
- Drop Section 2 and give more details on constraints pre-policy
- In exercise on Portugal interest rate risk important as almost all loans ARM
- What is lifetime leverage and LTV?

Thank you