

Discussion of:
Bank Competition and Targeted Monetary Policy
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Global Credit Flows

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ECB TLTROs

- What are the TLTROs?

- Long-term collateralized loans to banks
- Every bank can borrow provided it pledges collateral
- TLTRO loans are cheap (haircut+rate) for Italian banks
- Banks are incentivized to lend to firms (**Targeted** LTRO)

- Targeted Monetary Policy

- Standard ECB OMO through MROs and LTROs
- Conditions (rate, borrowing limit) linked to bank lending to nonfinancial private sector
- ! March 2019: *“A new series of quarterly TLTROs will be launched [...] to preserve favourable bank lending conditions and the smooth transmission of monetary policy”*.

- Results:

- Banks reduce loan rates by approx 20 bps (diff-in-diff)
- Banks' ↑ market power: delayed and muted effect
- What about credit volume?

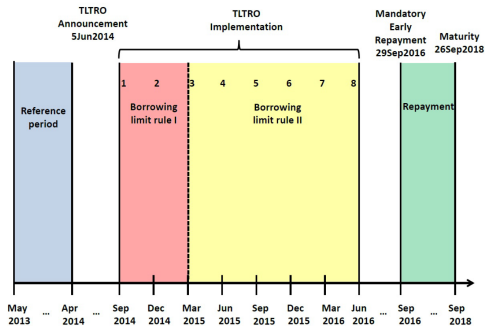
Identification Challenges

1) Demand vs. supply

- Within borrower estimation á la Khwaja and Mian (2008)
(does not capture bank-specific demand)

2) Selection into treatment

- Banks *choose* how much to borrow from the ECB
- IV: exploit TLTRO allocation rule $q_b^1 + q_b^2 \leq 0.07 \times EL_b^{Apr14}$



First Stage

- Valid instrument ☺

- > 90% of banks actively participating to the operations borrowed $> 0.95 \times Rule_b$ in the first two TLTROs
- $Rule_b$ definitely “more exogenous” than TLTRO and point estimates change significantly once we use the IV approach

- Exclusion Restriction

$$Y(TLTRO, X) \stackrel{?}{=} Y(TLTRO, X, Rule_b)$$

- ? “The differences in potential treatment across banks are therefore predetermined and **orthogonal** to unobservables that may affect supply in the period after TLTROs”
- Show the estimates of X in the first stage

First Stage

	Binary treatment	Continuous treatment
	(1)	(2)
Rule \times Post	2.15*** (0.287)	0.080*** (0.012)
Firm-time f.e.	Yes	Yes
Bank f.e.	Yes	Yes
Bank-time controls	Yes	Yes
Kleibergen-Paap F-statistic	41.81	56.36
Kleibergen-Paap LM-statistic	17.44	20.52
Observations	354,060	354,060
Adjusted R^2	0.82	0.82

Uptake of TLTRO Liquidity

- Gross Vs. net uptake

- Part of TLTRO used to rollover previous ECB borrowing
- ⇒ Gross Uptake > Net Uptake
- Authors use *net* borrowing. Which friction is relevant?
- What if TLTRO is normalized by bank assets?

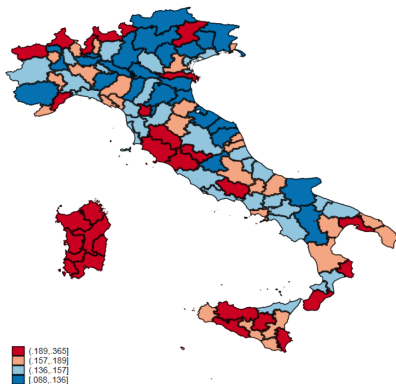
$$TLTRO_{bt} = \phi Rule_b \times Post_t + \gamma_{ft} + \gamma_b + \theta X_{bt} + \epsilon_{bfmt},$$

$$Y_{bfmt} = \sum_{\tau} \alpha_{\tau} \mathbb{I}_{\tau=t} \times TLTRO_{b\tau} + \gamma_{ft} + \gamma_b + \theta X_{bt} + \epsilon_{bfmt},$$

- Clarify timing

- $Rule_b$ or $Rule_{bt}$?
- One TLTRO per quarter ⇒ repeated treatments
- ⇒ What is the “diff” estimated?

Competition in Bank Credit Sector



- ✓ Robust using two sources of exogenous variation coming from the historical development of banking markets
- ⇒ Would emphasize this part more (now on page 29...)

Conclusion

- Timely paper: TLTROs are the “new normal”
- Improved identification (IV for selection into treatment)
- My comments:
 - ▶ More careful claims, especially for the exclusion restriction
 - ▶ Clarify empirical specification (timing, $TLTRO_{b\tau}$)
 - ▶ More emphasis on the role of competition