

MONEY MARKETS AND BANK LENDING: EVIDENCE FROM THE TIERING ADOPTION

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INSTITUTIONAL CONTEXT

- Not that long ago, central banks sought to ease monetary policy.
- 2014: ECB introduced negative interest rates (NIR).
- Delicate balance:
 - NIR increase banks' incentive to lend.
 - NIR hurt banks' profitability and capitalization.

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- 2019: two-tier system for remunerating excess liquidity holdings.
 - Exempt (from NIR) 6x required reserve, which is 1% of customers' deposit.
 - Deposit constitutes 60% of funding ([EBF \(2022\)](#)) \Rightarrow exempt 4% of asset.
 - Comparison: share of equity in total assets.
 - Deutsche bank: 3.4% (2021).
 - Santander: 6.1% (2021).

FINDINGS OF THIS PAPER

The two-tier remuneration system

- Increased valuation of banks with more excess liquidity than the exemption amount (high liquidity).
- Increased interbank trading that redistributed liquidity.
- **Increased lending by banks with unused exemptions (low liquidity).**
 - **Q: Why? What changed?**

PROPOSED CHANNEL: REDUCED FRAGMENTATION

- Mechanism: reduced fragmentation in money markets (i.e., more interbank trading relationships) allowed banks to “insure liquidity risks and thus reduce their precautionary behavior and spur lending”.
- Motivation: all else equal, banks have an easier time to borrow from existing relationships. See [Brauning and Fecht \(2017\)](#), [Cocco et al. \(2009\)](#).
- Evidence:
 - Low-liquidity (LL) banks established new relationships with, and borrowed from high-liquidity (HL) banks.
 - LL banks increased lending to customers (at lower rates and longer maturities).
 - LL banks reduced holdings of governmental bonds.
- This mechanism could be more tightly established.

COMMENTS ON THE CURRENT MECHANISM

- Documented: LL banks increased lending to customers.
 - If more lending relationships spur lending, why didn't HL banks also increase lending?
- Documented: LL banks reduced holdings of government bonds.
 - Paper's interpretation: government bonds are used as collateral for secured borrowing, reducing these bonds suggests "a decrease in precautionary behavior".
 - Alternative explanation: government bonds had negative yields. LL banks had the capacity to convert government bonds into higher yielding exempt reserve.
- What would be more convincing:
 - Cross-sectional test of lending on number of new relationships.

ALTERNATIVE CHANNEL: CHEAPER LIQUIDITY

- Mechanism: HL banks always have an incentive to offload excess liquidity, thus providing a cheap and consistent funding base for LL banks.
- Motivating evidence: new loans made by LL banks have lower rate and longer maturity.
- Another potential test to tease apart “reduced fragmentation” vs. “cheaper funding”: changes in the share of new credit lines offered.
 - Credit lines are profitable but can drain liquidity, especially in bad times.
 - If increased lending is spurred by better (perceived) insurance protection arisen from less fragmented money markets, then share of credit lines could go up.

WHY THE DISTINCTION?

- Different mechanism leads to different response to future policies and shocks.
- Further monetary policy loosening:
 - Fragmentation-mechanism: **unclear**.
 - New links need not to form, generating little additional insurance.
 - Funding-mechanism: **good**.
 - The amount of cheap funding is tied to deposit base, which is likely to grow.
- Sudden negative shock:
 - Fragmentation-mechanism: **good**.
 - Insurance absorbs shock.
 - Funding-mechanism: **unclear**.
 - Funding may disappear.

CONCLUSION

- An enjoyable paper that clearly and convincingly documents the effects of two-tier remuneration system.
 - Two-tier system led to increased bank valuation, increased inter-bank trading, and increased lending by LL banks.
- More analyses on the mechanism that led to the increased LL bank lending can provide critical insights to policymakers.

- Brauning, F. and Fecht, F. (2017). Relationship lending in the interbank market and the price of liquidity. Review of Finance, 21(1):33–75.
- Cocco, J. F., Gomes, F., and Martins, N. C. (2009). Lending relationships in the interbank market. Journal of Financial Intermediation, 18(1):24–48.
- EBF (2022). Banking in europe: Ebf facts & figures 2022.