

### Banks' Balance-Sheet Costs, Monetary Policy, and the ON RRP by Afonso, Cipriani, La Spada

Discussion

Workshop on Non-Bank Financial Institutions New York Fed



Simone Manganelli (ECB, DG-Research)

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## Recent history of the operational framework

- Before 2008: Reserves not remunerated, OMO, small balance sheet
- 2008: Interest on reserve balances (IORB), to fix side effects of QE for banks
  - Serves as a floor for the Effective Federal Funds Rate
- 2013: Overnight Reverse Repo (ON RRP), to fix side effects of QE for non-banks
  - Act as the IORB for non-banks with no access to the Fed balance sheet

## Fed balance sheet

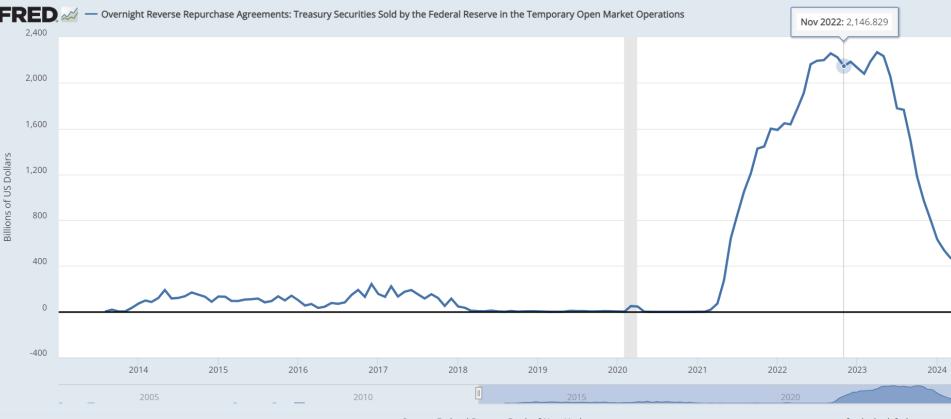


Shaded areas indicate U.S. recessions.

Source: Board of Governors of the Federal Reserve System (US)

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## Overall take-up of the ON RRP



Shaded areas indicate U.S. recessions.

Source: Federal Reserve Bank of New York

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# Summary of the paper

Around 90% of the take-up in the ON RRP was by Money Market Funds (MMF).

Three main drivers:

- a. Banks' balance-sheet constraints
- b. Scarce supply of Treasury bills
- c. Tightening monetary policy

It would help to provide some self-contained institutional background on the operational framework.

## 1. The perfect out-of-sample exercise

- Results are based on sample ending in 2022.
- Since then, there has been a reversal in the take-up of ON RRP.
- What happens to the regression coefficients when estimated on 2023-2024 sample?
  - Impact of regulation is a temporary factor, but what about T-bill and monetary policy?

### Banks' balance-sheet constraint

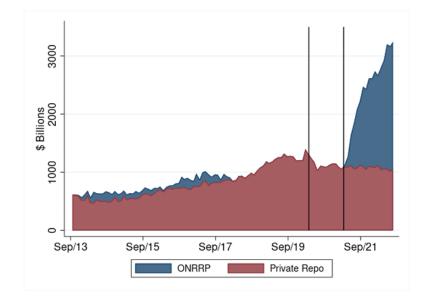


Figure 5: Tri-Party Repo Volume: Private Repos and ON RRP Take-up. The vertical lines represent the dates when the SLR relief becomes effective for BHCs, on April 14, 2020, and when the SLR relief period expires, on March 31, 2021.

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# 2. What about prices?

- Take-up in ON RRP is a quantity that is jointly determined with prices.
- Which prices are relevant?
  - Spread between ON RRP and private repo rates (Hempel et al. 2023)
  - Spread between ON RRP and T-bill rates (Stein and Wallen 2023)
- Puzzle explanations:
  - Market segmentation: ON RRP is not available to all investors
  - Relationship lending: trade below ON RRP to preserve active relationship with dealers.
  - Technical restrictions: ON RRP is only open between 12:45 and 13:15.
  - Inelastic substitution: As more elastic investors leave the market, remaining inelastic investors require greater price changes (Breckenfelder and De Falco, 2023).
- It would be nice to see a dynamic model where prices and quantities are jointly determined, as in the VAR model of Garcia-de-Andoain et al. 2016.

## 3. Are these symptoms of a large balance sheet?

Larger central bank balance sheets and associated facilities reduce **short-run risks** of unexpected liquidity shocks.

#### But they do generate **long-run risks**:

- By interfering with market functioning and distorting prices.
- By changing the incentives of economic agents.
- These side effects are harder to contain for central banks and would require effective prudential supervision and fiscal rules.

#### **Balance** between short-run and long-run risk assessment:

- Long-run effects deserve closer scrutiny because they structurally change the interaction between the central bank and other economic agents.
- They can eventually become a major source of market distortion.