

Discussion of:
Monetary Transmission through Bank Securities Portfolios
by Daniel Greenwald, John Krainer, and Pascal Paul

Matteo Crosignani
New York Fed

November 9, 2023

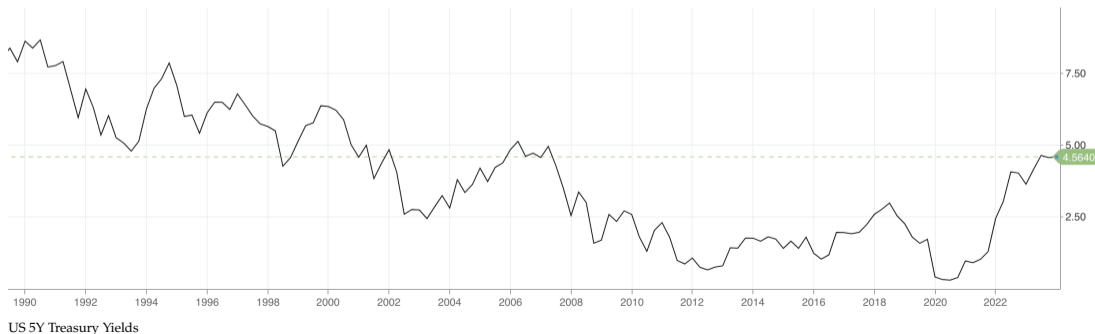
Deutsche Bundesbank – SAFE – CEPR conference on Challenges for Financial Intermediaries
and their Supervisors in the New (or Old?) Monetary Policy Normal

Deutsche Bundesbank

The views expressed in this discussion are solely the responsibility of the author and should not be interpreted as reflecting the views of the New York Fed or of anyone else associated with the Federal Reserve System.

Premise

- Rapid hiking cycle caused a large drop in the price of various securities
- Banks hold around 20% of assets in Treasury and Agency MBS (as of 2021:Q4)
- Sudden “hit on balance sheet” because of loss of *economic* value (risk of runs too)
- Eventually, *but gradually*, higher NIM offsets the drop in the value of securities (DSS '21)



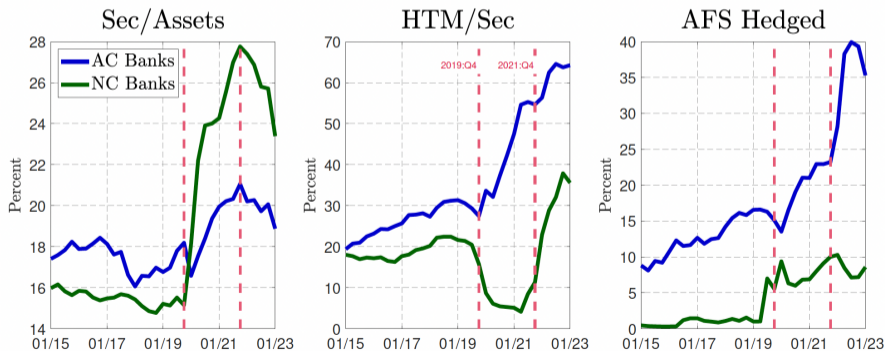
HTM vs. AFS

- Banks can hold securities in their
 - **Trading book:** flows to the income statement (< 1% of assets)
 - Investment portfolio of the **banking book:** no income statement effect, (i) AFS or (ii) HTM
- **HTM holdings**
 - Does not influence the balance sheet at all
 - Around 4% of assets
- **AFS holdings**
 - Marked to market, can be hedged
 - Around 14% of assets
 - Affects book equity through the “accumulated other comprehensive income” (AOCI)
 - **AC banks** must include unrealized gains/losses in their *regulatory* capital. **NC banks** do not.

AC banks more conservative in their securities holdings

- You can't really sell HTM that easily, risk of "tainting" the entire HTM portfolio
- Over the last two years, massive increase in securities and transfers from AFS to HTM

Figure 5.3: Evolution of Securities Portfolio.



AFS holdings and bank credit supply

- **Correlation across banks between drop in AFS securities value and bank credit supply**
- **AC banks drive the results → hit on *regulatory* capital**
 - AFS securities only, not HTM → hit on capital, not just drop in economic value
 - AC banks drive the results → hit on *regulatory* capital
- **AFS securities likely correlated with other bank characteristics**
 - Need to discuss this correlation in the cross-section of 10 AC banks and 19 NC banks
 - Correlation with uninsured depositors (96% of SVB's deposits were uninsured (FT))?
 - Correlation with strength of the deposit franchise (their hedge against hiking cycles)?

Sample banks

- **AC banks drive the results** → **hit on *regulatory capital***
 - If this is the story, NC banks should serve as a placebo
 - But most regressions lump AC and NC banks together, using “AC-banks-time” fixed effects
- **The sample includes 10 AC BHCs and 19 NC BHCs**
 - Only around 1,200 firms across 27 banks with firm-time fixed effects
 - 12,000 firms across 28 banks without firm-time FE
 - Multiple relationships not common in the US and Y14 firm id not consistent across banks
 - Also, difficult to “control” in this sample for other AC bank characteristics

Banks *choose* their AFS holdings

- **Need to understand how banks choose their securities holdings**
 - Their maturity
 - Their hedging
 - Their AFS vs. HTM classification
- Suppose inherently risky AC banks both (i) are weakly capitalized and (ii) hold a lot of unhedged long-term securities in their AFS portfolio
 - A model could give some structure, but the current version has an exogenous b^{LT}
- **Particularly important given the large inflow of deposits during the pandemic**
 - Also worth discussing to what extent this episode is “unique” (pandemic + rapid rise in rates)

“Hit-on-balance-sheet” channel

- **In this episode, the hit on (regulatory) capital is clearly driven by monetary policy**
- **But the mechanism is more general** → it applies to *any* large drop in securities value
- **Reminiscent of GIIPS banks’ credit crunch during the eurozone crisis**
 - Unrealized losses on sovereign bonds triggered a slow run by US MMFs (De Marco, 2019)
 - This paper contributes with better data (e.g., hedging data) and interesting setting with regulatory differences (e.g., AC vs. NC banks)

Last two comments

- **Motivation using SVB**
 - SVB's securities mostly in HTM portfolio, but effects in this paper mostly from AFS holdings
 - The SVB episode triggered a run but this paper does not look at funding stability

- **Agency MBS vs. Treasuries**
 - Agency MBS are 54% of securities vs. 30% of Treasuries
 - Banks hedging focused mostly on Treasury interest rate risk (74% hedges for AC banks)
 - MBS are tough to hedge because of convexity coming from (lack of) prepayments
 - Is the credit contraction driven by Agency MBS?

Overall

- Impressive data work matching securities (and hedging) with corporate lending data
- Overlooked channel of monetary policy
- My suggestion is to discuss the many moving parts:
 - NIM
 - Regulatory capital vs. bank capital
 - Bank portfolio choice (hedging, maturity, AFS vs. HTM)
 - Potential role of bank fragile funding (e.g., deposit beta)