

Discussion of “Investor’s Appetite for Money-Like Assets: The Money Market Fund Industry after the 2014 Regulatory Reform” by Cipriani, La Spada, Mulder

Discussant: Egemen Eren (BIS)

Basel, September 2017

The views expressed here are those of the author only, and not necessarily those of the Bank for International Settlements.

The US MMF reform and this paper

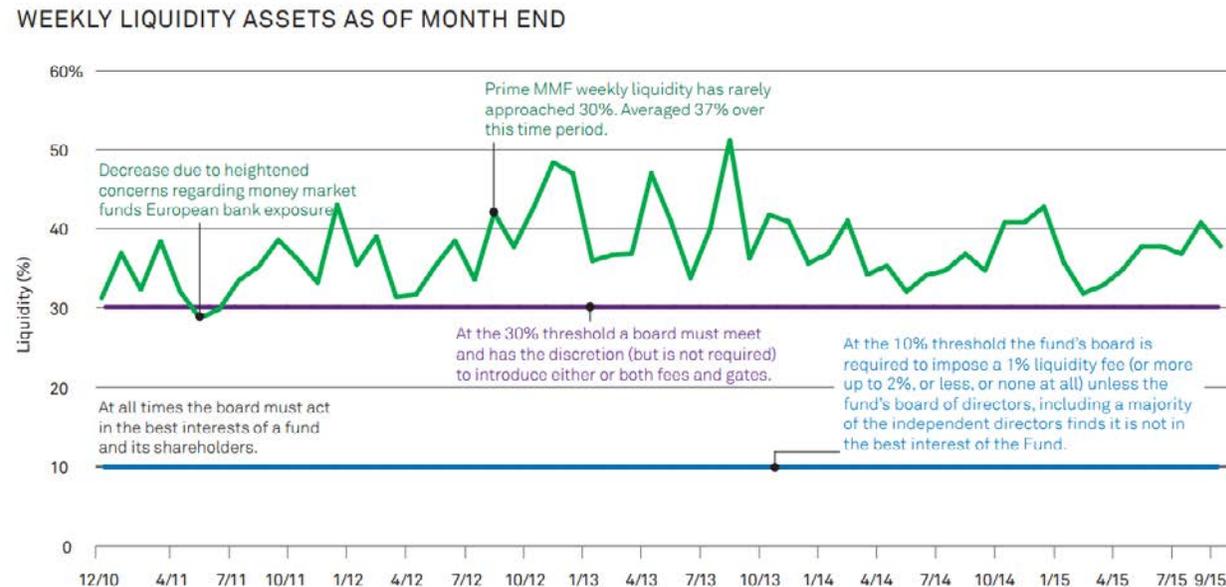
- US MMF reform changed the way wholesale funding works in only a few months.
 - More than \$1 trillion went from prime & muni funds to government funds.
 - Very important implications for bank wholesale funding, especially for foreign banks:
 - Aldasoro, Ehlers, Eren and McCauley (2017); Aldasoro, Ehlers, Eren (2017); Pozsar (2017).
- This paper: How did investors react to the MMF reform?
 - Investor flows from prime and muni funds were mostly to agency funds.
 - Flows occurred within fund families.
 - The outflow from prime was stronger for institutional investors...s.t. stricter regulation than retail investors
 - Credit to private sector reduced, while credit to GSEs (and FHLB in particular) increased.
- Interesting paper. There is room for improvement.

Comment 1: What does money-like mean? Policy implications differ.

- Key message: Investors' appetite for money-like assets explains their reaction to the reform.
- Reform: Redemptions gates and fees, and floating NAV. Changes moneyness of prime.
- Alternative hypothesis: Operational difficulties from marking to market.

1) Redemption gates and fees for all prime & muni funds:

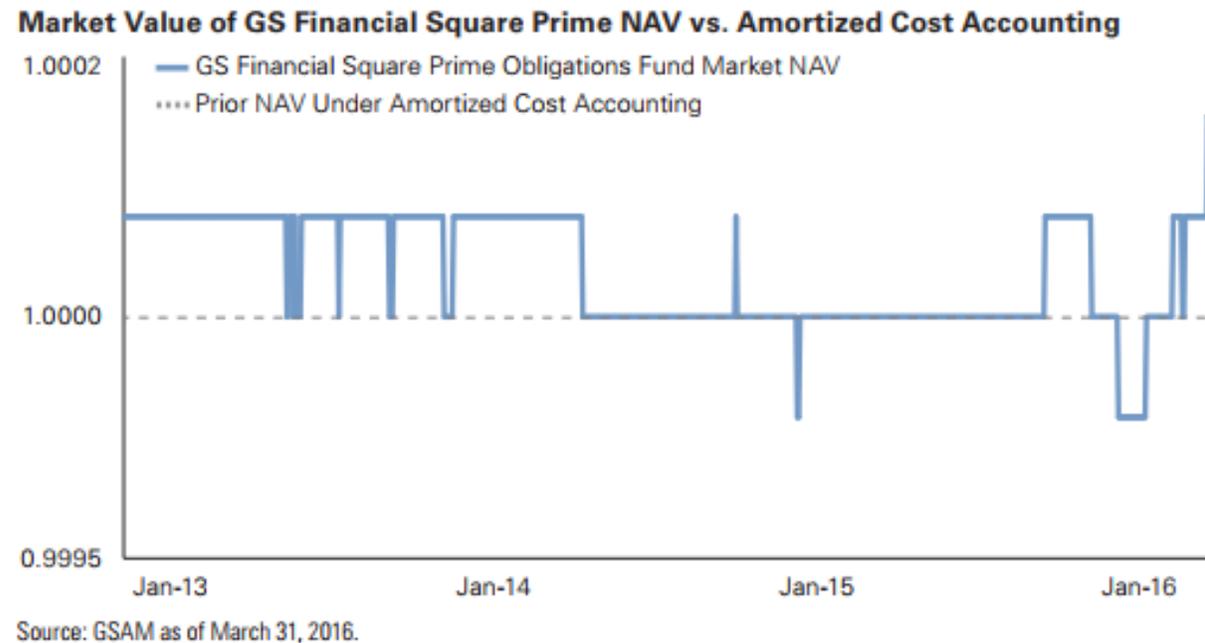
- If weekly liquidity < 30%, board **has the discretion** to introduce fees/gates if it is in the fund's best interest.
- If weekly liquidity < 10%, a board **is required to** introduce fees or gates, but **there are ways to escape it, if it is not in the fund's best interest**. Weekly liquidity well above 10% since 2011.
- From BlackRock:



Comment 1: What does money-like mean?

2) Floating NAV for institutional prime funds & penny to basis point rounding.

- Advantages of stable NAV funds: Amortized cost accounting and penny rounding.
- Is this an issue (economically)? The market value of prime funds is quite stable generally.



Comment 1: What does money-like mean?

- Sure, these things are important at crisis times, so peaceful period may not measure risks.
 - Yield spread between prime & government institutional funds:

Time Period	Average prime institutional yield (%)	Average government institutional yield (%)	Average yield spread (basis points)
Jan 04, 2011-Dec 29, 2015 ¹	0.044	0.013	+3.1
Jan 05, 2016-Dec 27, 2016 ¹	0.273	0.113	16.0
As of Dec 27, 2016 ²	0.530	0.230	30.0

Source: iMoneyNet, Inc.

¹ average of weekly annualized net 7-day simple yield

² 7-day simple yield as of Dec. 27, 2016

- Low volatility of NAVs and a search for yield environment: why not invest in prime funds?
- BoA survey: 30-40 bps enough to return to prime funds. That is much higher than before.

Money-likeness: Operational issues more than preference for safe assets?

- Stable NAV is treated like cash in accounting. Stable NAV: redemptions easy.
- Floating NAV can be recorded as cash in balance sheet, but needs to be marked to market.
- There are operational difficulties, more than any deep preference for money-like assets.
 - Calculation of NAV on an ongoing basis by both investors and funds.
 - Makes redemptions potentially problematic. Cause delays.
 - Industry estimates: Adjusting systems have \$2 billion fixed costs, with \$2 billion annual operational costs.
- Alternative hypothesis :
 - Leave prime because it is too uncertain how to deal with it. Come back once the dust settles.
 - BoA survey: 30-40 bps enough to return to prime funds. In line with operational costs?
- It would be good to see a discussion of what exactly “money-like” means:
 - Different reasons for switching has different policy implications.
 - If operational, then once the dust settles, we are back to normal and MMFs are still runnable.

Comment 2: “supports the hypothesis that flows were due to regulatory changes”

- What is the alternative hypothesis?
 - Changes in macroeconomic conditions? Later say: “[MMF reform was]...in a time of relative calm.”
 - Government funds had better advertising strategies in 2016.
 - This is not a very fruitful. It is obvious that all the changes are due to the reform.
- Instead, use the fact that there are three distinct episodes to develop other hypotheses:
 - 2008: Run on funds – Credit risk across the board.
 - 2011: Only funds with exposure to European banks.
 - 2016: No credit risk issue.
- (How) did flow-performance relationship change in each of these episodes?
- What happened to the funds that investors ran to afterwards?
- Develop further how this time is different from other episodes.

Comment 3: The flow from prime funds into agency funds: Supply or demand?

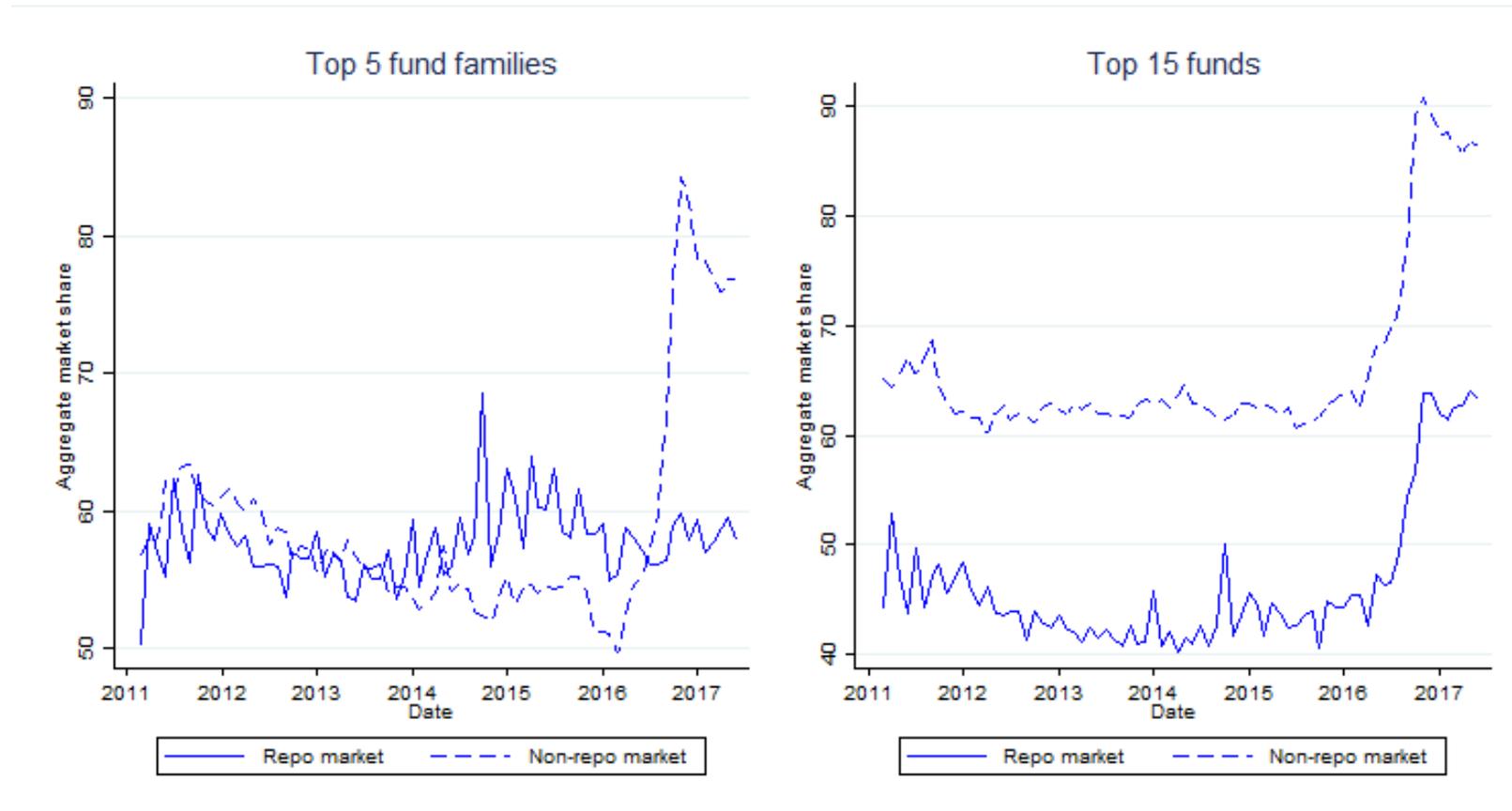
- The story in the paper: Prime investors are more risk tolerant, so they choose agency.
- Equally plausible story:
 - Banks prefer agency repos to Treasury repos.
 - Fund families advertise agency funds to be able to provide more agency repos to banks.
 - Investors switch to agency funds within the same fund family.
- Aldasoro, Ehlers, Eren (2017):
 - Average repo volumes since 2011 (using end-of-month data):

Table 6: Collateral Composition of MMF Lending

Collateral type	Treasuries	Government agency securities	All other collateral types
Avg outstanding MMF repos (USD bn)	189.5	219.7	81.7

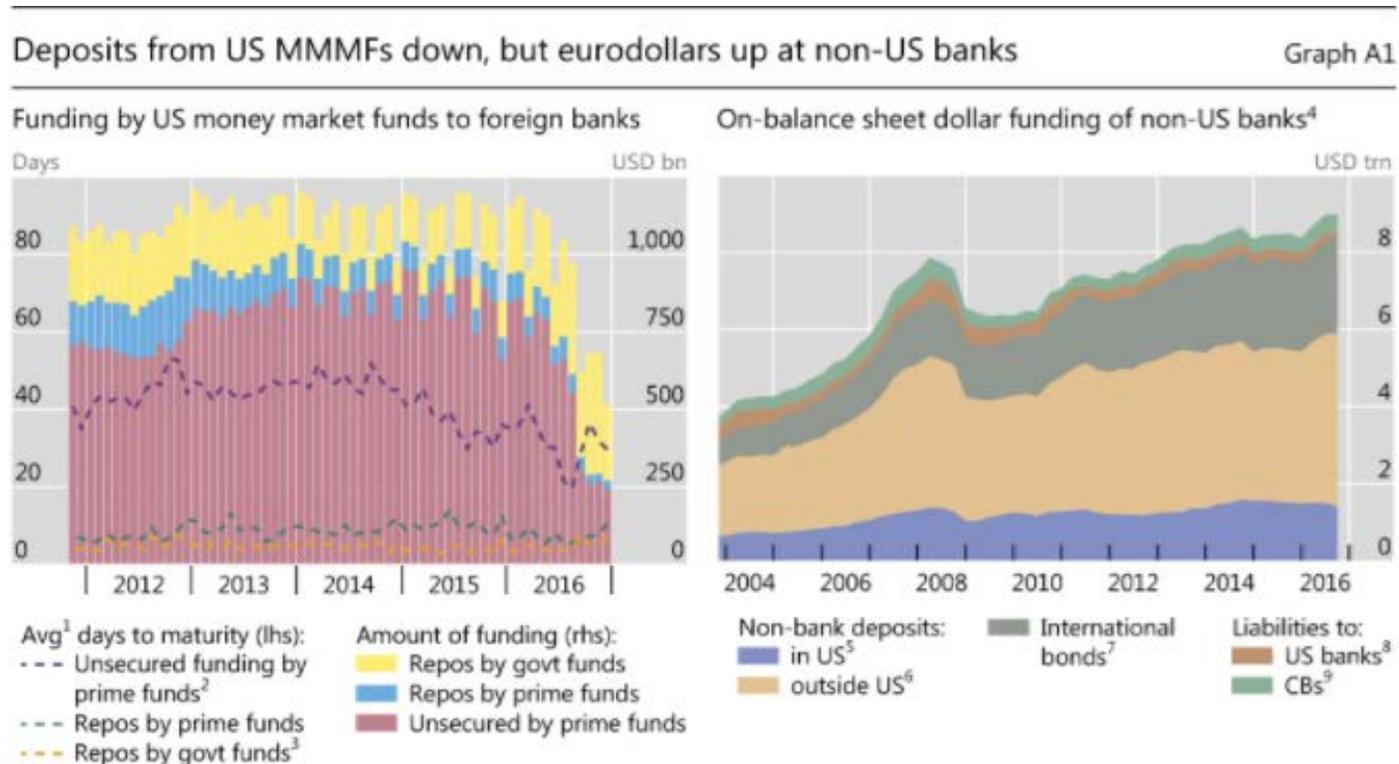
Comment 4: MMF market power; bank side affects investor side.

- Aldasoro, Ehlers, Eren (2017):
 - MMFs are not competitive. Funds exercise market power over banks.
 - Power of fund family matters. Market structure changed after the reform.
 - Pricing power with banks → higher yield → inflows influenced by this?



Comment 5: Has US dollar intermediation changed? NYFed data?

- “Credit to private sector decreased, while credit to GSEs (in particular FHLB) increased.”
- What does this mean for US dollar intermediation? Very important question. NYFed ?
- Pozsar (2017) speculation: FHLB -> US money center banks -> Foreign banks (via FX swap)
- Aldasoro, Ehlers, Eren, McCauley (2017) – increase in Eurodollar deposits:



Conclusion

- Developments in the US MMF sector are very important for regulators to monitor.
- This paper is a good effort to show the initial reaction of investors to the MMF reform.
- The impact of the reform is not over.
 - As yield spreads between prime and government funds change, the landscape will continue to evolve.
- Open questions: Unintended consequences of the reform?
 - Average maturity of bank borrowing has declined (Aldasoro, Ehlers, Eren, McCauley (2017)). Rollover risk?
 - Excess inflow into government funds → Excess demand for Treasuries?
 - Lengthen the intermediation chain? Financial stability?
 - Debt ceiling effect on the supply of Treasuries? How will that affect government funds?
 - Flow into ultra-short bond funds?