

# Conference on Money Markets 2022 Discussion of "Liquid Assets and Financial Fragility" by Toni Ahnert and Marco Macchiavelli

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#### **Motivation**

- Liquid assets are crucial for:
  - Investment behaviour (hedge/diversification)
  - Pricing instrument/benchmarking
  - Regulation and supervision
  - Monetary policy
  - Financial markets and stability

- Provision of safe assets to the financial system is a core central-bank function during normal times ...
- > ... and especially during financial crises as it may help providing an impetus for sustainable recovery

#### **Motivation (cont'd)**

- Liquidity provision through various facilities (LOLR facility, IOER, OMOs, etc.)
- So, why is this topic then on the agenda today?
- i. Provision of liquid assets typically via depository institutions
- ii. Increased participation of **non-bank entities** in financial markets (e.g., FSB 2021)
- iii. Frictions may arise due to heterogeneous <u>bargaining power</u> <u>and access</u> to central bank facilities (e.g., Bech and Klee, 2011; Abbassi and Bräuning 2021, among others)

#### This paper

- Ample liquidity provided through various facilities (LOLR facility, IOER, OMOs, etc.)
- > So, why is this even an issue then?
- i. Provision of liquid assets typically via depository institutions
- ii. Increased participation of **non-bank entities** in financial markets (e.g., FSB 2021)
- iii. Frictions may arise due to heterogeneous <u>bargaining power</u> and access to central bank facilities (e.g., Bech and Klee, 2011; Abbassi and Bräuning 2021, among others)

#### This paper (cont'd)

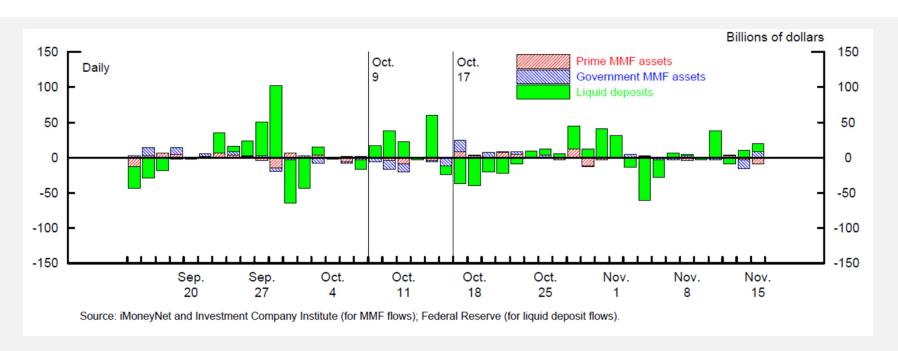
 Studies this in the context of the FED's Overnight Reserve Repurchase (ON RRP, which grants money market funds access to an altered version of the IOER facility)

#### > Idea of the ON RRP:

MMFs lend out funds overnight to the FED, receive Treasury securities as collateral (Tri-party repo) and the ON RRP rate (similar concept as the IOER for depository institutions)

- Focuses on primary MMFs with and without access to the ON RRP facility
- Exogeneous event (2013 debt-ceiling standoff in the US)

#### This paper (cont'd)



- In the five business days ending on October 16, 2013, net redemptions from prime and government MMFs totaled \$15 billion and \$40 billion, respectively, and CP outstanding declined \$20 billion (Frost et al, 2015)
- Specific question of the paper: does access to ON RRP help to reduce outflows during the 2013 debt-ceiling standoff in the US

#### Null hypothesis and main result of the paper

 MMFs with more cash-like assets (i.e., low/zero average cost of liquidation) are better equipped to internalize short-term fluctuations, e.g., withdrawals/redemptions

#### Two results:

- i. <u>Theoretical result:</u> low/zero average cost of liquidation helps to internalize losses/withdrawals but higher marginal cost of liquidation induces fire-sale type dynamics
- ii. <u>Empirical results:</u> differential outflow for affected MMFs depending on access to ON RRP

#### My main comments

- Super interesting and important topic
- [Fits nicely into the recent literature emphasizing benefits of the public provision of safe short-term assets in enhancing financial stability by displacing private money-like assets that are prone to runs, e.g., Stein 2012, among others]
- Carefully executed, polished paper

#### My comments:

- Economic channel, theoretical framework, other/diffferent interpretations
- Identification
- Big-picture lesson/putting into perspective

#### My main comments: economic channel

Diamond and Dybvig (1983) consider the fragility of a financial institution that must choose between a short-term safe asset (like ON RRP), and a long-term technology

- Exogeneous increase in the return of the safe asset (consistent with an increase in ON RRP rate) has both a
  - > Substitution effect (i.e., tendency to increase investment in the safe asset as its relative return makes it more desirable) and
  - Income effect (i.e., tendency to reduce investment as one can earn the same income with lower quantity of the asset)
  - → Either effect could dominate (e.g., Foster et al, 2015)

#### My main comments: theoretical framwork

Generally: I am not sure how helpful the model is for the empirical study

- Theoretical framework depends on availablity of liquid assets
  with zero cost of liquidation → focuses on market liquidity, i.e.,
  the ease with which one can sell the asset (trigger on liability side,
  may affect both assets and liabilities)
- Empirical study uses the availability of liquid assets (i.e. cash) to borrow Treasury securities in the ON RRP → focuses on funding liquidity, i.e., the ease with which one can use an asset for refinancing (trigger on asset side, swap on the asset side)
- ➤ I think, there is already enough literature to motivate for the dynamic at play (Brunnermeier, 2009; Hanson et al. ,2015; among others)

#### My main comments: big picture lesson

- Can you say something on aggregate effects?
  - Commercial papers: can borrowers from control MMFs compensate the reduction across other entities/intermediaries?
  - What happens to aggregate level of short-term funding?
  - Are outflows at control MMFs associated with inflows elsewhere?
- Paper seems to put emphasis on private money-like assets → is more lending always better?
- "Graceful Exit" → temporary facility, potential (asymmetric) effect of "phasing out" (Acharya and Rajan, 2021; Acharya et al., 2022)?

#### My main comments: big picture lesson (cont'd)

- Can an elastically supplied risk-free asset (like the ON RRP) amplify run dynamics/ alter fligh-to-quality dynamics?
- 2008 (also 2011 and 2013) flight-to-quality episodes may alter destinations of safe-haven flows
- Cash that, in absence of ON RRPs, might have moved quickly to liquid deposits at banks could go to ON RRPs through government MMFs
  - → prime MMFs could experience larger outflows
  - → Availability of short-term funding like repos and CPs could decline more quickly
  - → Financial stability implications (Foster et al, 2015)
- Maybe more balanced discussion of these dynamics (also in light of potential QT/restrictive monetary policy episodes ahead)?

### In conlusion

- Super important and interesting topic and paper
- Already polished
- > My comments:
  - Link between theoretical framework and empirical study
  - Maybe some additional robustness tests
  - Big picture lessons
  - More balanced discussion of the identified effect from a systemwide perspective (and its implications for financial stability)

# **THANK YOU!**

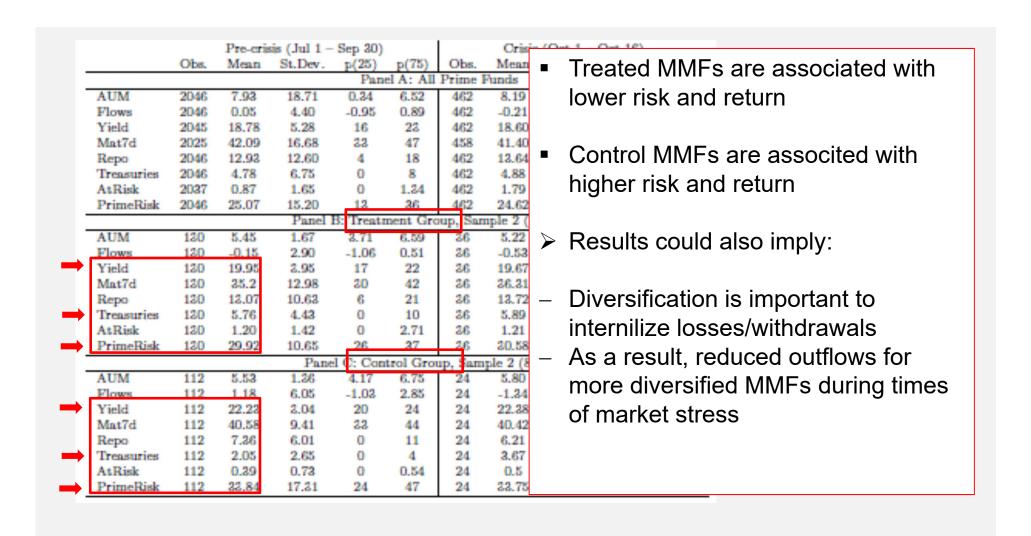
# **Additional Comments**

#### My main comments: theoretical framwork (cont'd)

Specifically: Can you say something about sorting/matching (investors – MMFs)?

- Investors' decision is determined by:
  - Risk
  - Return
  - Costs
- ➤ All else equal, treated MMFs/MMFs with low/zero average cost of liquidation (i.e., low risk-return) → may attract risk-averse investors
- ➤ All else equal, control MMFs/MMFs with higher marginal cost of liquidation (i.e., higher risk/return) → may attract risk-taking investors
- How does that affect the model outcome?

#### My main comments: other/different interpretations



# My main comments: other/different interpretations (cont'd)

- Lack of access to ON RRP (for control MMFs) could imply heterogenous bargaining power (Bech and Klee, 2011; Abbassi and Bräuning, 2021) in money markets
- May suggest that eligibility/access to ON RRP affects money market rates → suggests increased footprint by the FED on money markets

#### My main comments: identification

- Why don't you use **net outflows** (or control for inflows)?
- Why dont't you use the **share of elgibile collateral** (which is exogeneous to the MMFs and pre-determined) **as an IV** for their ON RRP take-ups?
- Is there also a within-treated MMF heterogeneity depending on the share of affected T-Bills?
- Effect on treated T-bills should be higher when restricting on T-bills not maturing during the 2013 debt-ceiling standoff (simply because maturity distance to maturity/face value is greater)
- I would suggest not to use 2011 as a period for robustness analyses (US MMFs experienced outflows due to their European government investments)
- In Table 2 and 3, I would assume that an F-test with the null hypothesis, that beta3+beta4=0, cannot be rejected, suggesting that there is no significant effect for the treated MMFs (relates to my earlier point that for treated MMFs, there is an asset swap)