

Lessons from the Crisis and Post-Crisis Experience

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Any views expressed here are my own and do not represent those of the D. E. Shaw group.

Observations from the Crisis and Post-Crisis Period

1. The Fed needs to have an effective set of standing tools for providing liquidity.

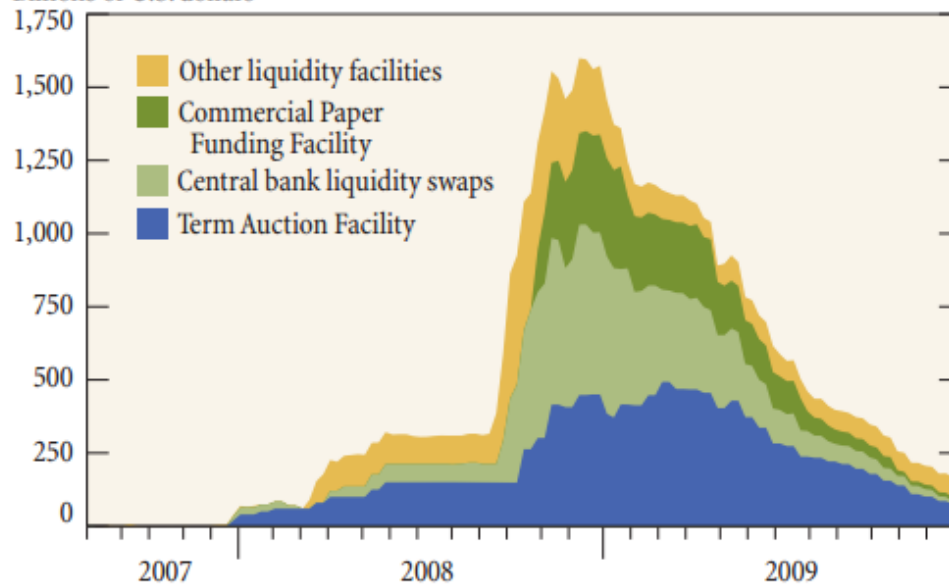
- The Fed showed remarkable innovation during the crisis
- But that success came mostly from introducing new facilities rather than from standing facilities
- And the Fed faced several constraints that might have slowed its response
- Framework should be able to more effectively provide liquidity to the banking sector through standing facilities
- Also important to consider whether facilities should include a wider set of counterparties

Liquidity Provision During the Financial Crisis

Chart 2

Evolution of Federal Reserve Liquidity Facilities

Billions of U.S. dollars



Source: Fleming and Klagge (2011), "Income Effects of Federal Reserve Liquidity Facilities," *Current Issues*, Volume 17-1, Federal Reserve Bank of New York.

Observations from the Crisis and Post-Crisis Period

- 2. The Fed needs to have the capacity to do large-scale asset purchases.**
 - Asset purchase programs can be an effective policy instrument
 - Central banks need to retain the option to do asset purchases because of the lower bound on short-term interest rates
 - Operational capacity to do LSAPs should be maintained
 - Framework should allow a smooth transition to an expanded balance sheet

Fed's Holdings of Treasury Securities

Chart 13
Composition of SOMA Domestic Securities Holdings

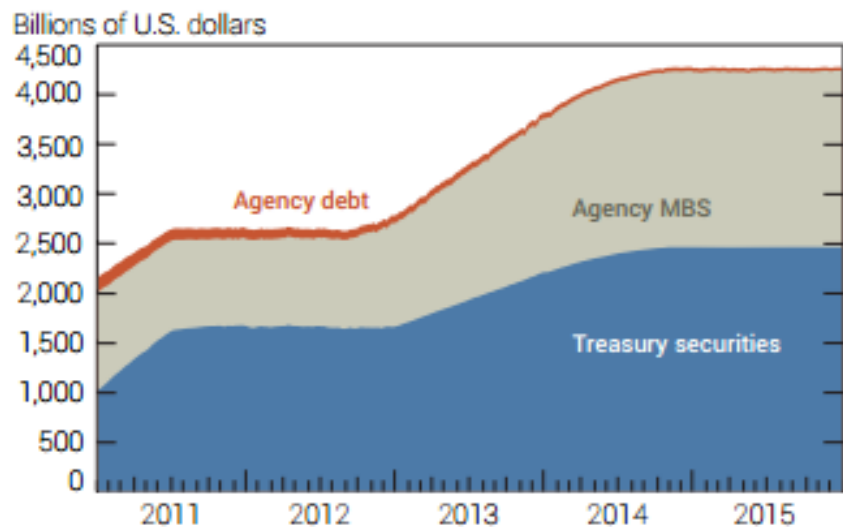
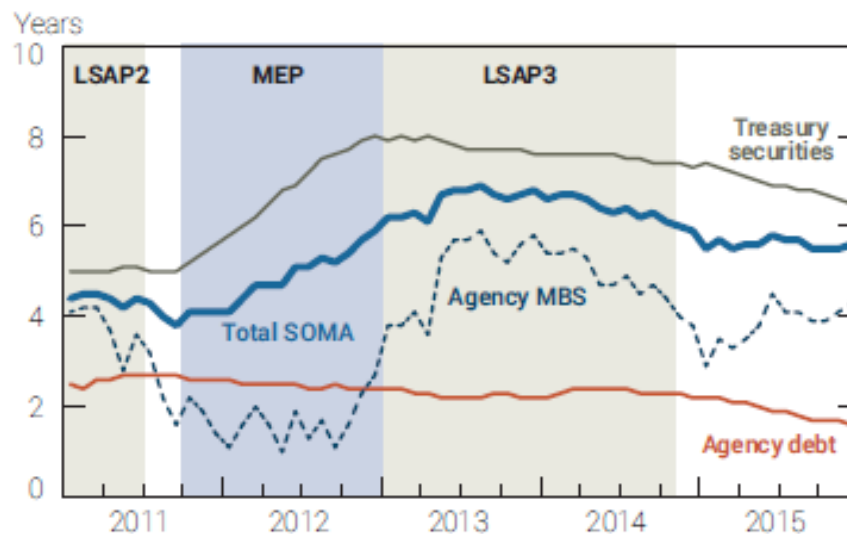


Chart 17
Average Duration of SOMA Domestic Securities Holdings



Source: *Domestic Open Market Operations During 2015*, Federal Reserve Bank of New York.

Observations from the Crisis and Post-Crisis Period

3. The Fed should consider a larger balance sheet in steady state, with the policy rate managed in a floor system.

- Key aspect of framework debate will be whether to operate in floor or corridor system
- Possible to have large steady-state balance sheet and rely on IOER and RRP to control the policy rate
- There are some advantages to maintaining large balance sheet (more liquidity in the financial system)

Observations from the Crisis and Post-Crisis Period

4. The composition of the Fed's steady state portfolio of Treasuries should be optimized.

- Before the crisis, the Fed's balance sheet holdings were governed by Treasury issuance patterns
- Fed should optimize the composition of its Treasury holdings for policy-oriented objectives
- Argument for holding bills: provides flexibility to drain quickly if needed

Anticipated Adjustments to Fed's Treasury Holdings

Chart 25
Projected Receipts of Principal on SOMA Domestic Securities: Baseline

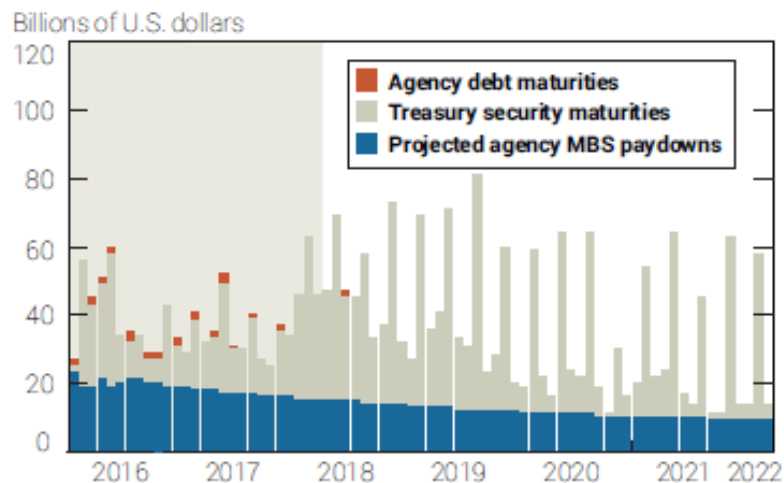
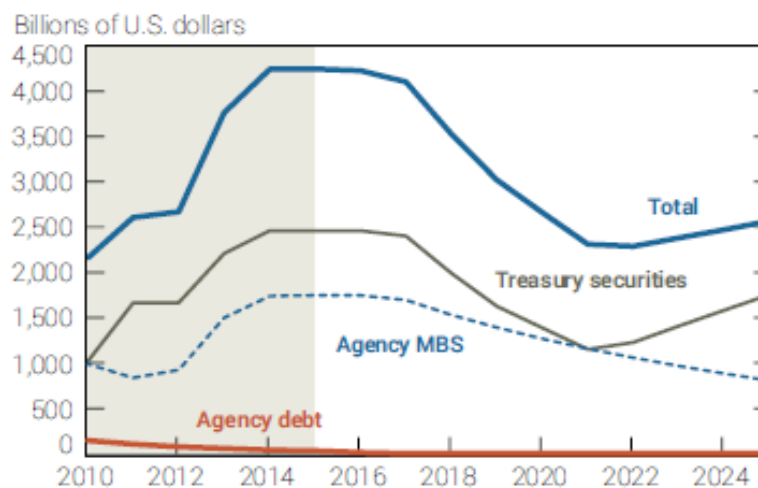


Chart 26
Projected SOMA Domestic Securities Holdings: Baseline by Asset Class



Source: *Domestic Open Market Operations During 2015*, Federal Reserve Bank of New York.

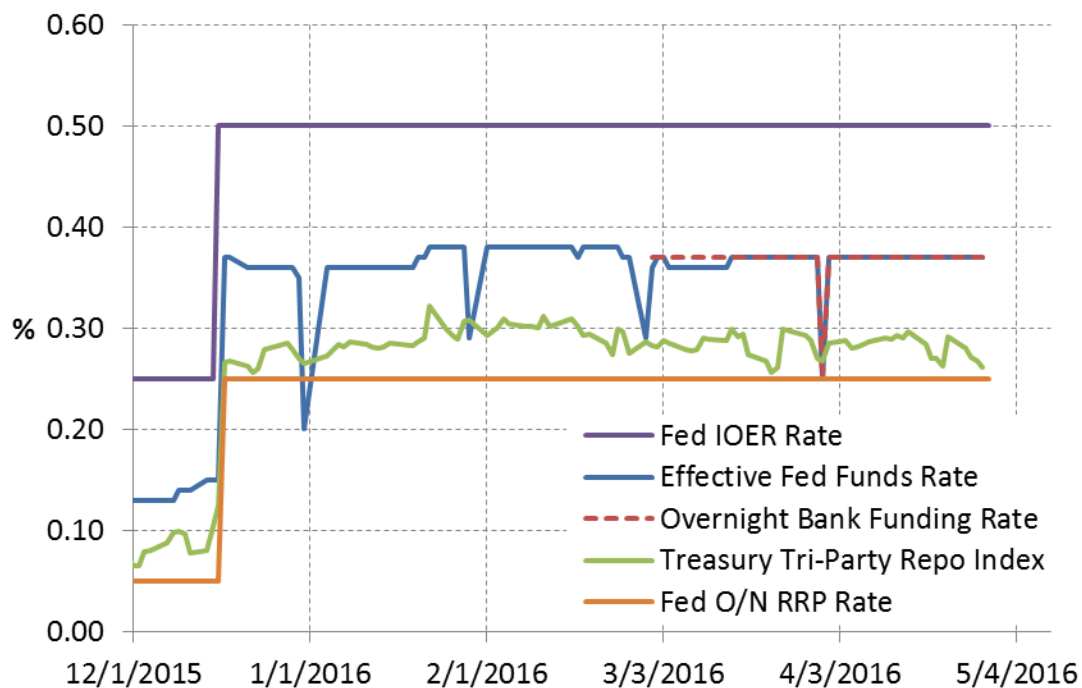
Observations from the Crisis and Post-Crisis Period

5. The Fed can effectively control the policy rate even with a large balance sheet.

- Control of short-term interest rates is most important aspect of framework; Fed needs to have an effective floor
- Fed has demonstrated impressive control of short-term interest rates
- Allows it to make decisions about balance sheet without compromising control of monetary policy
- IOER alone does not provide a hard floor, but the combination of IOER and RRP seems to be working well

Behavior of Short-term Interest Rates Since Lift-off

Short-Term Interest Rates



Source: Bloomberg, BNY Mellon.

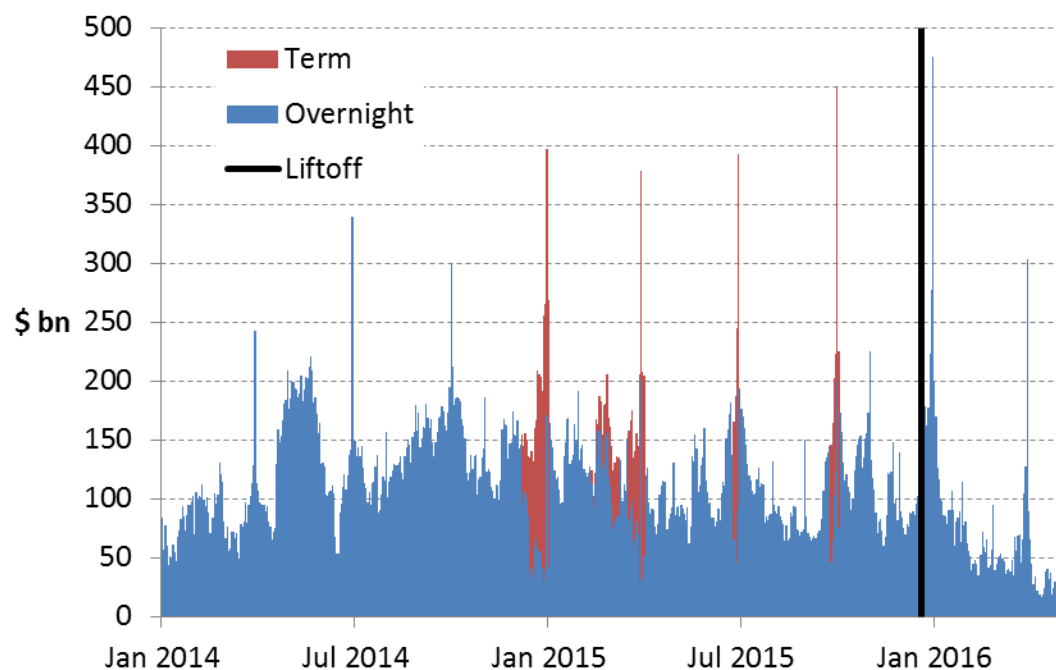
**Median Expectations from
FRBNY Primary Dealer Survey, 12/7/2015**

	Immediately After Liftoff	1 Year After Liftoff
Fed IOER Rate	0.50%	1.25%
Effective Fed Funds Rate	0.34%	1.11%
Treasury Tri-Party O/N Repo Rate	0.30%	1.06%
Fed O/N RRP Rate	0.25%	1.00%

Source: Federal Reserve Bank of New York.

Activity at the Fed's RRP Facility

Fed RRP Outstanding



Source: Federal Reserve Bank of New York.

**Median Expectations from
FRBNY Primary Dealer Survey, 12/7/2015**

	Immediately After Liftoff	1 Year After Liftoff
O/N RRP Demand	\$300 bn	\$350 bn
O/N RRP Cap	\$600 bn	\$450 bn

Source: Federal Reserve Bank of New York.

Observations from the Crisis and Post-Crisis Period

- 6. RRP should be a regular part of the Fed's policy framework.**
- Hard to understand the desire to phase out RRP as quickly as possible
 - Concerns about the Fed's footprint in markets were not fully explained
 - Best framework for ensuring effective control of short rates probably involves combination of RRP and IOER
 - Current configuration of administered rates has some shortcomings

Observations from the Crisis and Post-Crisis Period

7. The Fed should consider an alternative target variable.

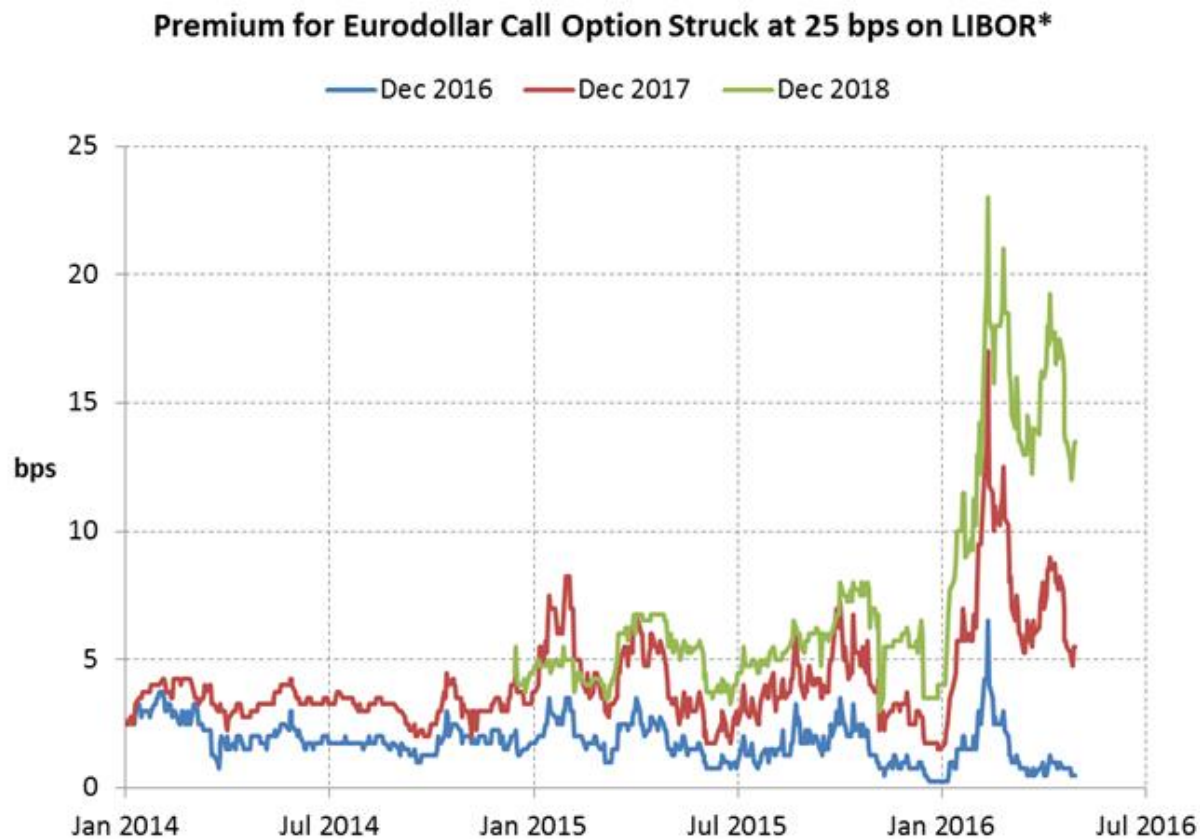
- The federal funds market currently has a limited amount of activity
- If want an unsecured rate, the OBFR likely dominates the federal funds rate
- Fed could also consider a secured rate or its administered rates as the target
- Fed likely has concern about a broader configuration of money market rates beyond its single target variable

Observations from the Crisis and Post-Crisis Period

8. The Fed should clarify if negative rates are part of the policy toolkit.

- Prospect of negative interest rates is already affecting market prices
- Fed could communicate whether negative rates are part of the toolkit and indicate the threshold to which they would be willing to adjust rates
- Knowing the Fed's views on negative rates would help markets more efficiently price policy prospects

Market Pricing of Negative Rate Outcomes



* Based on options on eurodollar futures contracts. Source: Bloomberg.