SUERF E-Conference 2020

"How to spend it? How to pay it back?
EU and US Perspectives"

Panel: COVID-19 to climate change: policy responses and future challenges

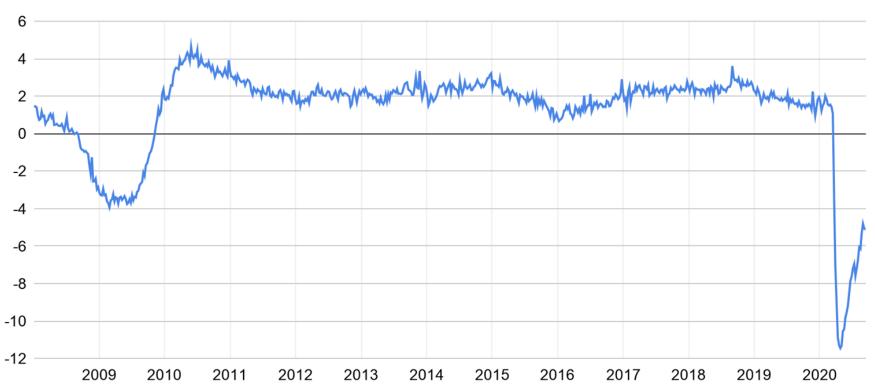
Central Bank Policy Responses

14 October 2020 Patricia C. Mosser



Weekly Economic Index for U.S.

Index of 10 weekly indicators of real economic activity, scaled to have the units of four-quarter percent change of real GDP



Source: Federal Reserve Bank of New York

2007-09 and 2020 Federal Reserve Facilities and Tools

2007-2009 crisis	
Temp. OMOs (repo/reverse repo)*	
Perm. OMOs (Treasury Purchases)*	
Securities lending*	
Discount window*	40/07
TAF	12/07
Central Bank swap lines	12/07
PDCF 13(3)	03/08
TSLF 13(3)	03/08
TOP (TSLF Options) 13(3)	09/08
Agency discount notes	09/08
TAF forwards	10/08
AMLF 13(3)	10/08
CPFF 13(3)	10/08
MMIFF 13(3)	NA
Agency debt purchases	11/08
Agency MBS purchases	01/09
Agency MBS dollar rolls	03/09
TALF 13(3)**	03/09

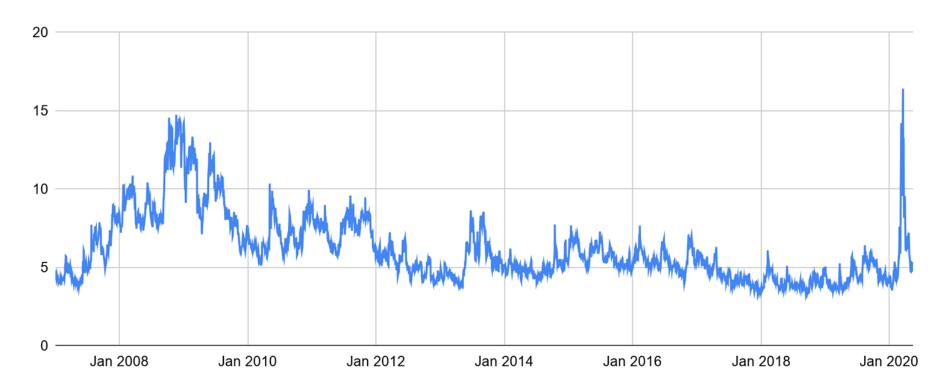
Monetary policy tools
Liquidity facilities
Targeted lending programs

COVID-19	
Temp. OMOs (repo/reverse repo)*	
Perm. OMOs (Treasury Purchases)*	
Securities lending	
Discount window*	
Agency MBS purchases	03/15/20
Agency MBS dollar rolls	03/15/20
CPFF 13(3)**	03/17/20
PDCF 13(3)	03/17/20
MMMLF 13(3)	03/17/20
Extended Central Bank swap lines	03/19/20
TALF (asset backed) 13(3)**	03/23/20
PMCCF (New corp bonds) 13(3)**	03/23/20
SMCCF (Corp bonds) 13(3)**	03/23/20
Agency CMBS purchases	03/23/20
MSNLF (Main street new lending) 13(3)**	03/23/20
FIMA repo	03/31/20
PPP lending facility 13(3)	04/06/20
MSELF (Main street extensions) 13(3)**	04/09/20
Municipal LF (Tax/Rev notes) 13(3)**	04/09/20
MSPriorLF (Main St. priority) 13(3)**	04/30/20
NONLF (Nonprofits, new) 13(3)**	07/06/20
NOELF (Nonprofits, extended) 13(3)**	07/06/20

^{*} Changes in size, rate and maturity of operations

^{**} Equity (for first loss) provided by USTreasury

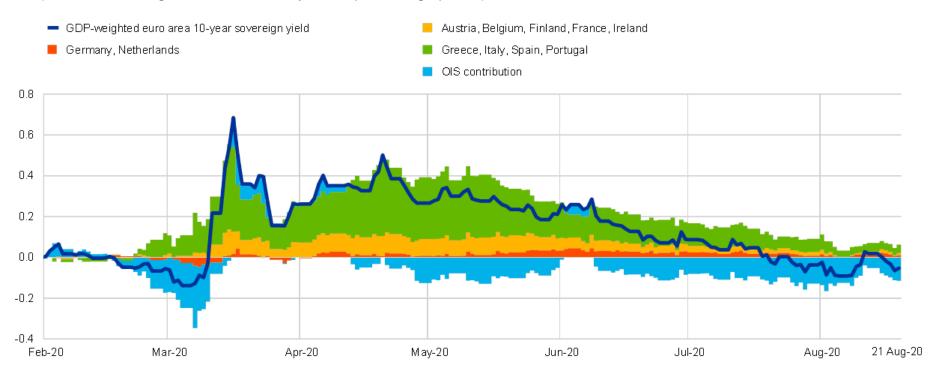
CBOE 10-Year Treasury Note Volatility Futures



Source: Federal Reserve Bank of St. Louis, FRED, CBOE

Euro area sovereign yields

(cumulated changes since 1 February 2020, percentage points)



Source: ECB, "The pandemic emergency: the three challenges for the ECB", Philip Lane, Aug 2020, Jackson Hole.

Corporate Bond Option Adjusted Spreads to Treasuries

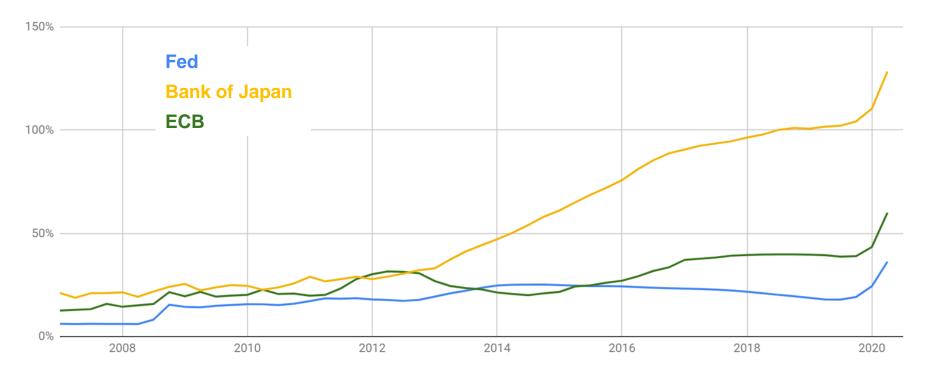
Percent



Source: ICE Bank of America, Federal Reserve Bank of St. Louis FRED

Central Banks' Balance Sheets

Central Bank Balance Sheets as a % of Nominal GDP



Source: FRED, Federal Reserve Bank of St. Louis, ECB, BOJ