

CPIM

CENTER FOR PUBLIC INVESTMENT MANAGEMENT



A PROGRAM BROUGHT TO YOU BY:

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TREASURER OF OHIO

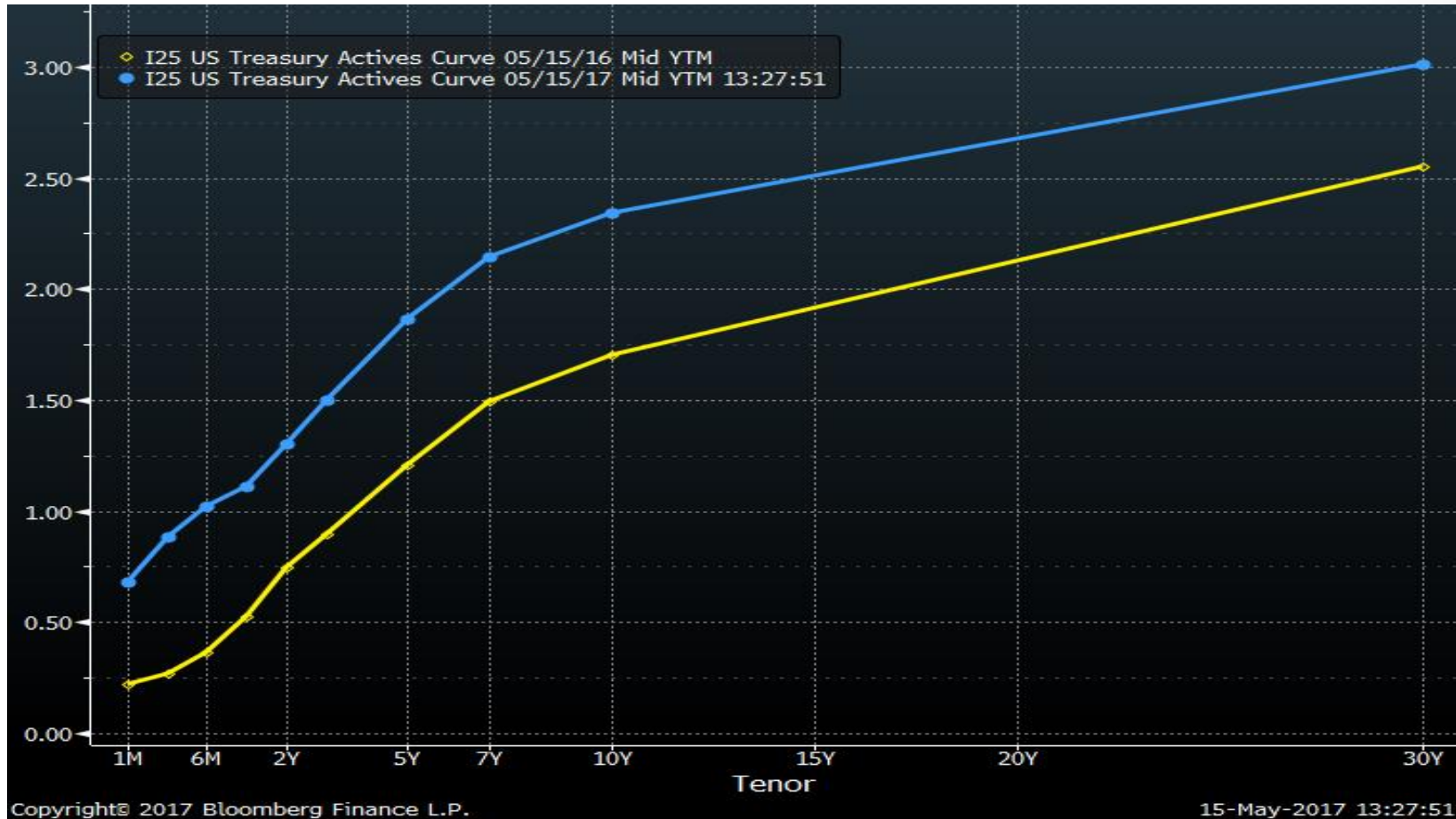
# General Session: Market Update

# Presenters

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# Interest Rate Environment

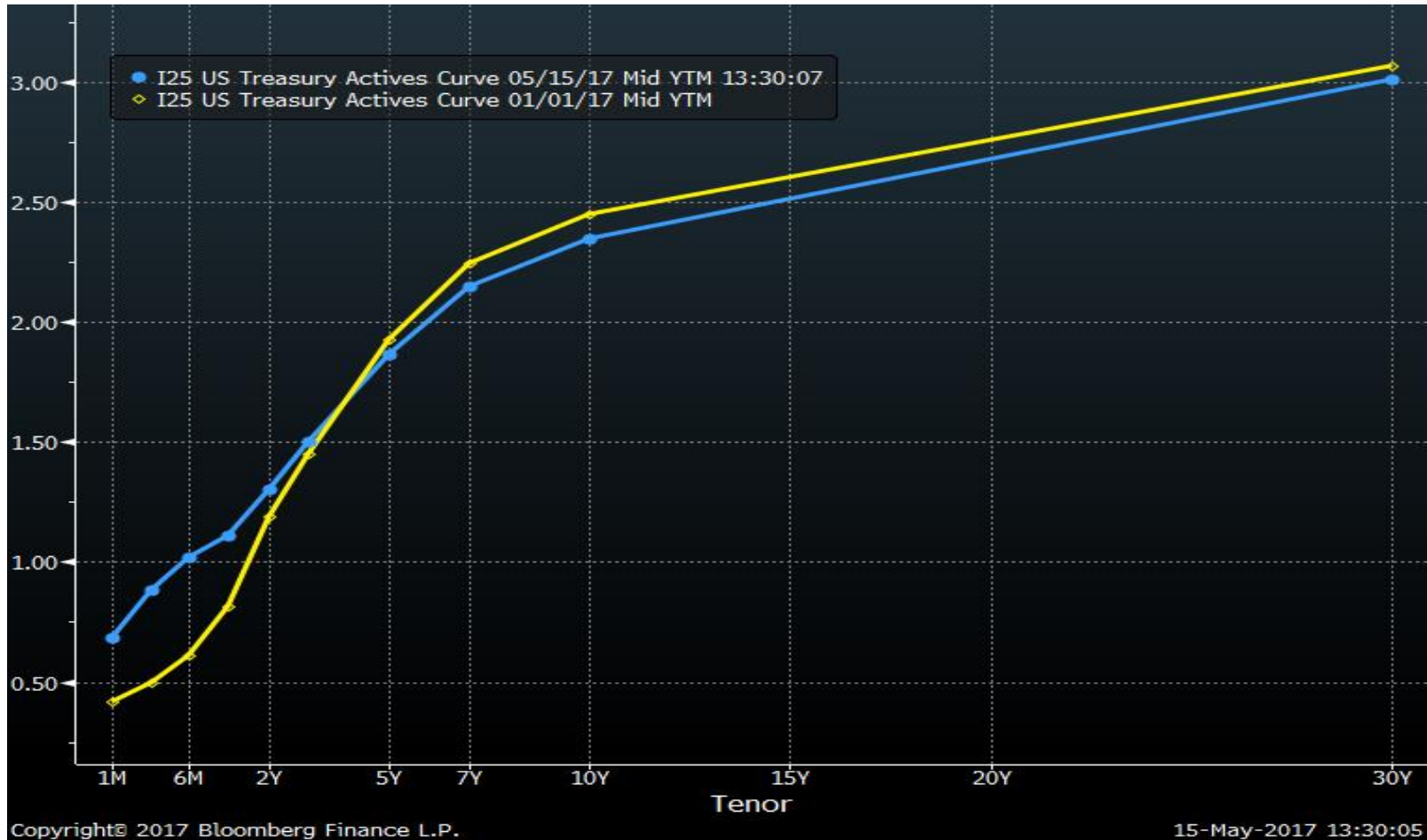
Over the last year, the Yield Curve has shifted upward



Source: Bloomberg as of 05/15/17

# Interest Rate Environment

YTD the Yield Curve has Flattened

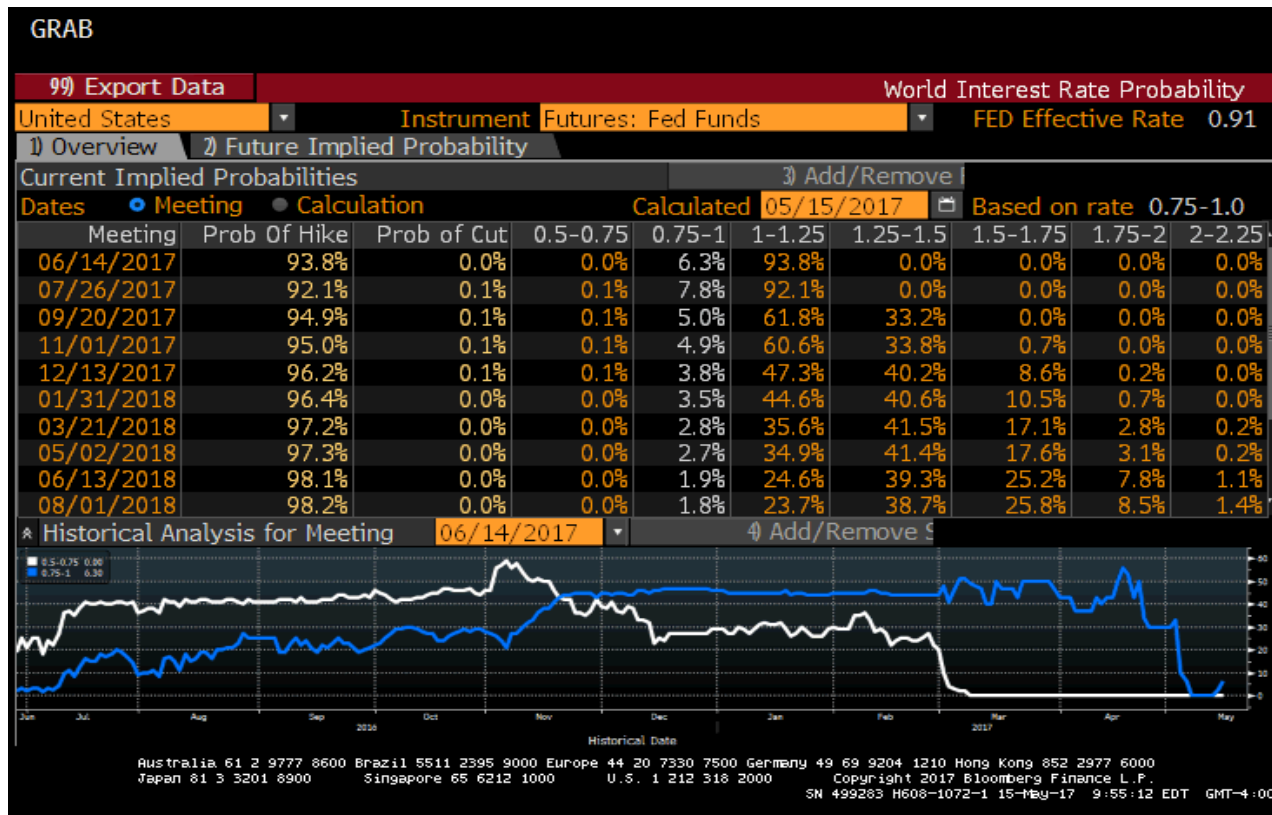


Source: Bloomberg as of 05/15/17

# Fed Funds

## Implied Probability of Rate Hike

- The Fed Funds implied probability of a rate increase in June is 94%
- Fed vs. market expectations on rates are not aligned for 2018 & 2019



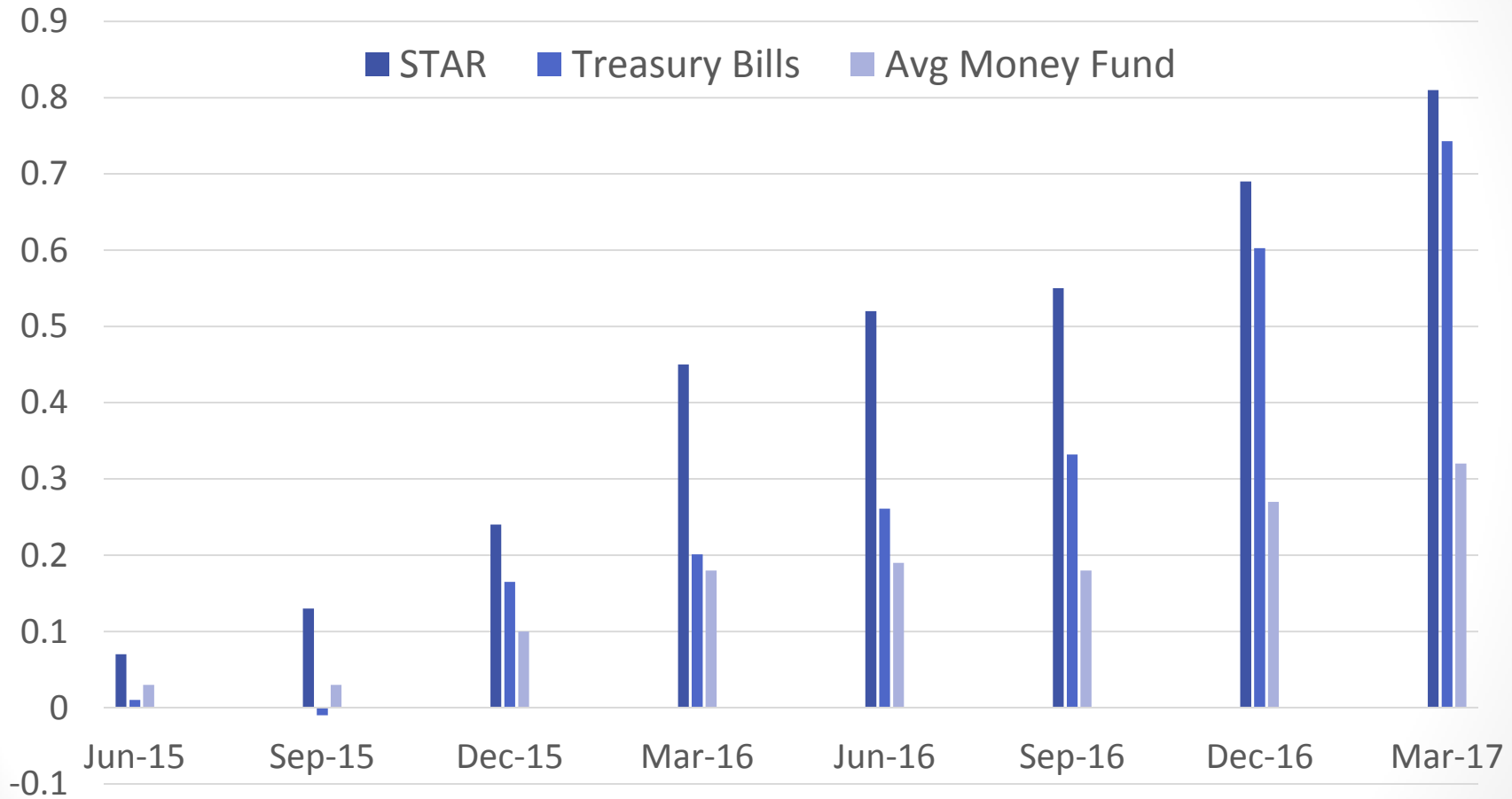
Source: Bloomberg  
 As of 05/15/2017

# What does this mean for STAR?

- Expect yields in STAR Ohio to increase
  - Economists predicting multiple rate hikes in 2017
- Fed tightening may not harm growth
  - Long term rates still extremely low
- New administration & fiscal policy
  - Fiscal policy and the FED

# Yield Comparison

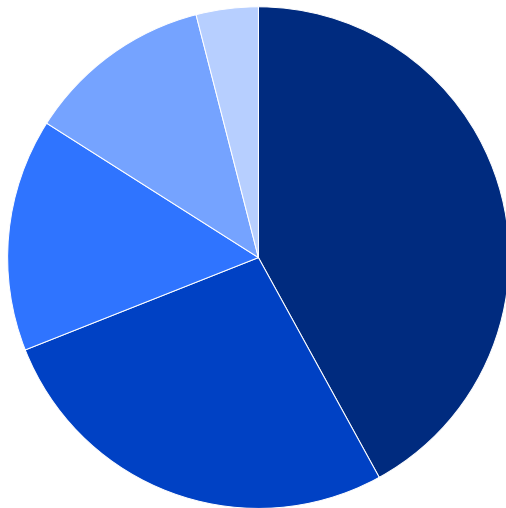
STAR Ohio vs. Treasury vs. Avg Money Fund



# Over \$7 billion in Deposits

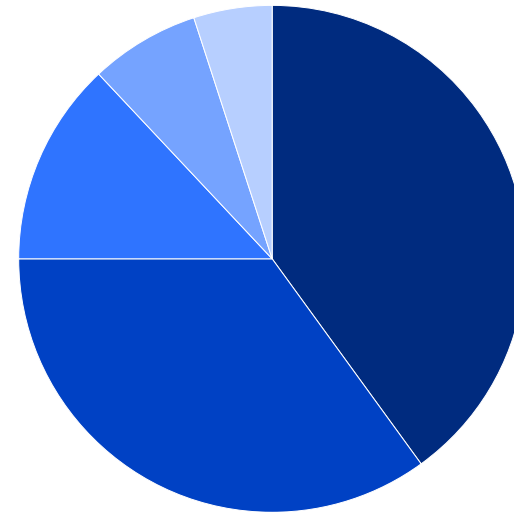
## Composition

3/31/2016



- Cash - 42%
- Commercial Paper - 27%
- Gov't Bond - 15%
- Corporate Bond - 12%
- Repo - 4%

3/31/2017

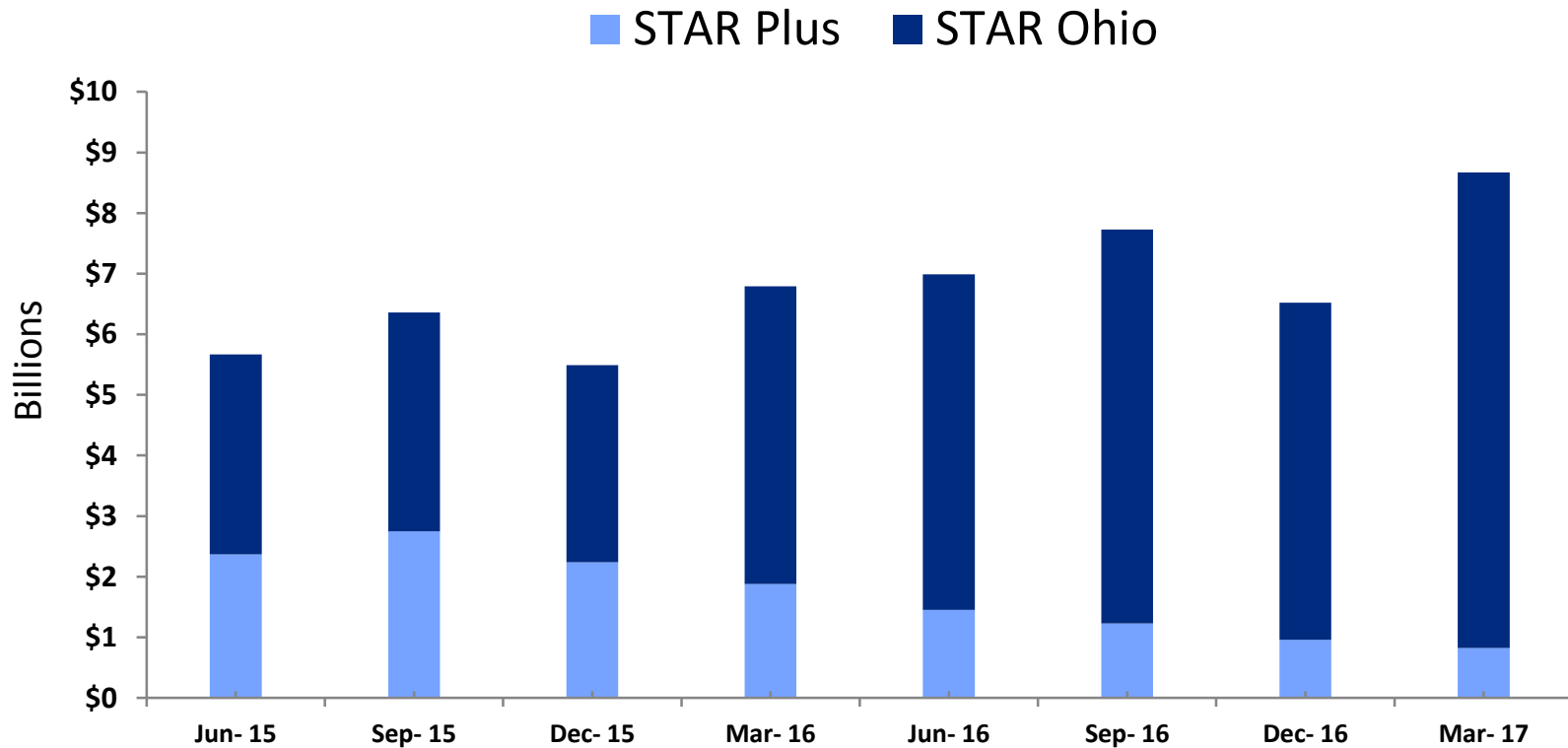


- Commercial Paper - 40%
- Cash - 35%
- Gov't Bond - 13%
- Corporate Bond - 7%
- Repo - 5%



# Program Assets

## Star Ohio vs Star Plus



Data as of 3/31/2017

# STAR Ohio vs. STAR Plus

## STAR Ohio

- Yield is based on portfolio of underlying securities
- Yield of securities is largely based on economic factors and expectations for interest rates, as well as credit risk
- As securities mature, the rate at which they can be reinvested depends on economic conditions at that time
- Current securities include: US Treasuries, US Government Agencies, Commercial Paper, Corporate Bonds, Repurchase Agreements, and Money Market Funds

## STAR Plus

- Yield is based on underlying bucket of bank deposit account
- Yield of bank deposit accounts is based upon each bank's current desire for deposits
- As banks demand for deposits increase, the bank will increase the rate it pays in order to attract deposits
- As banks demand for deposits decreases, the bank will decrease the rate it pays in order to push deposits out of the bank
- Economic outlook has less effect on bank rates

# Federal Reserve Outlook

## Near Term Policy Outlook

- Fed raised rates in March – 3<sup>rd</sup> rate hike in 16 months
- Two more rate hikes likely in 2017

## Longer Term Policy Outlook

- Janet Yellen and Board of Governors service TBD
- Further rate increases with expanding economy
- Fed independence challenged

# Driving Forces Behind Fed Policy

## **U.S. economy is betting on the consumer**

- The labor market is nearing full employment (unemployment < 5.00%)
- Personal earnings and consumption growth holding up
- GDP growing at a moderate pace (2.00% target being achieved)

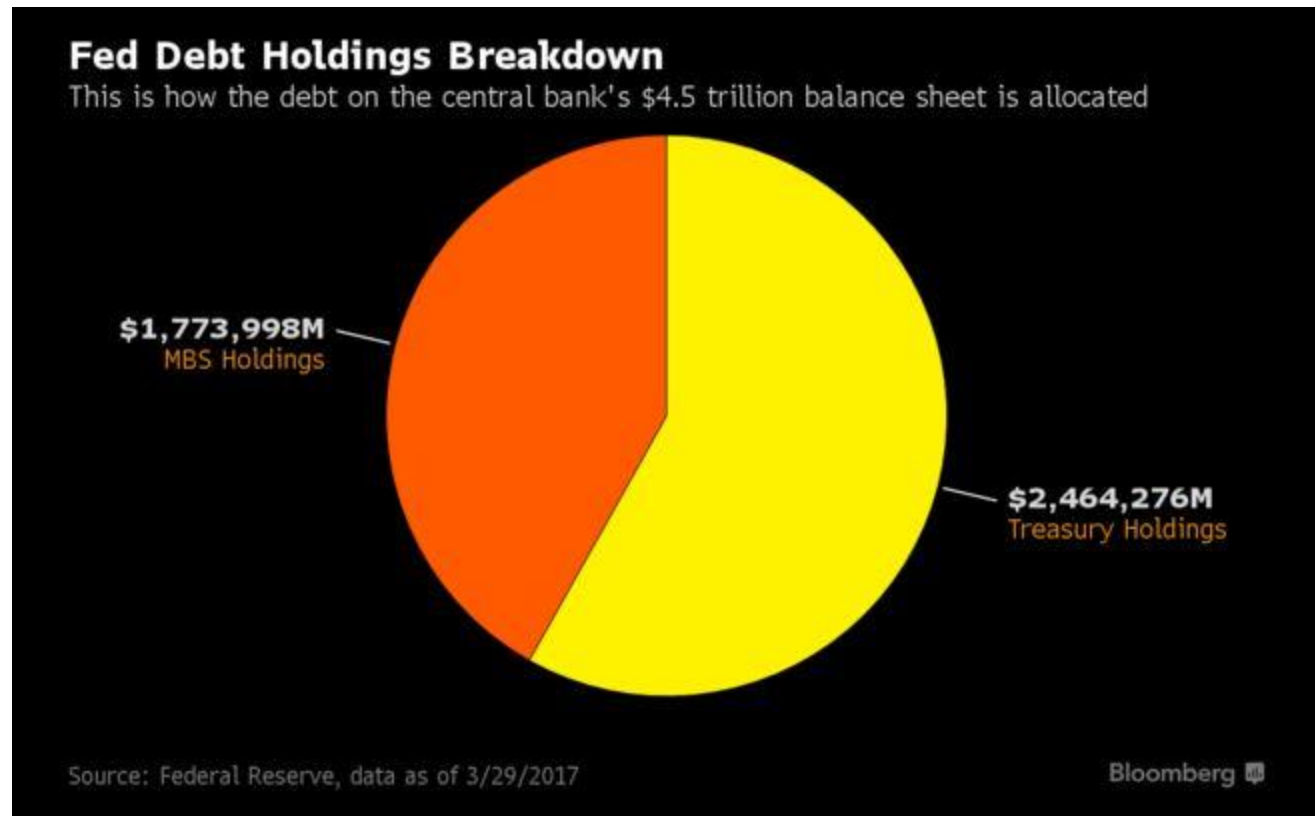
## **Global economy has the attention of the Fed**

- Weakness in China and other emerging markets creating headwinds
- Global volatility remains elevated
- ECB and BOJ continue to maintain accommodative monetary policy

## **Fed guidance has shifted**

- Decision to raise rates will remain data dependent
- Focus on global economy as well as domestic economic targets
- Guidance suggests 3 rate hike in 2017

# Fed Balance Sheet Unwinding



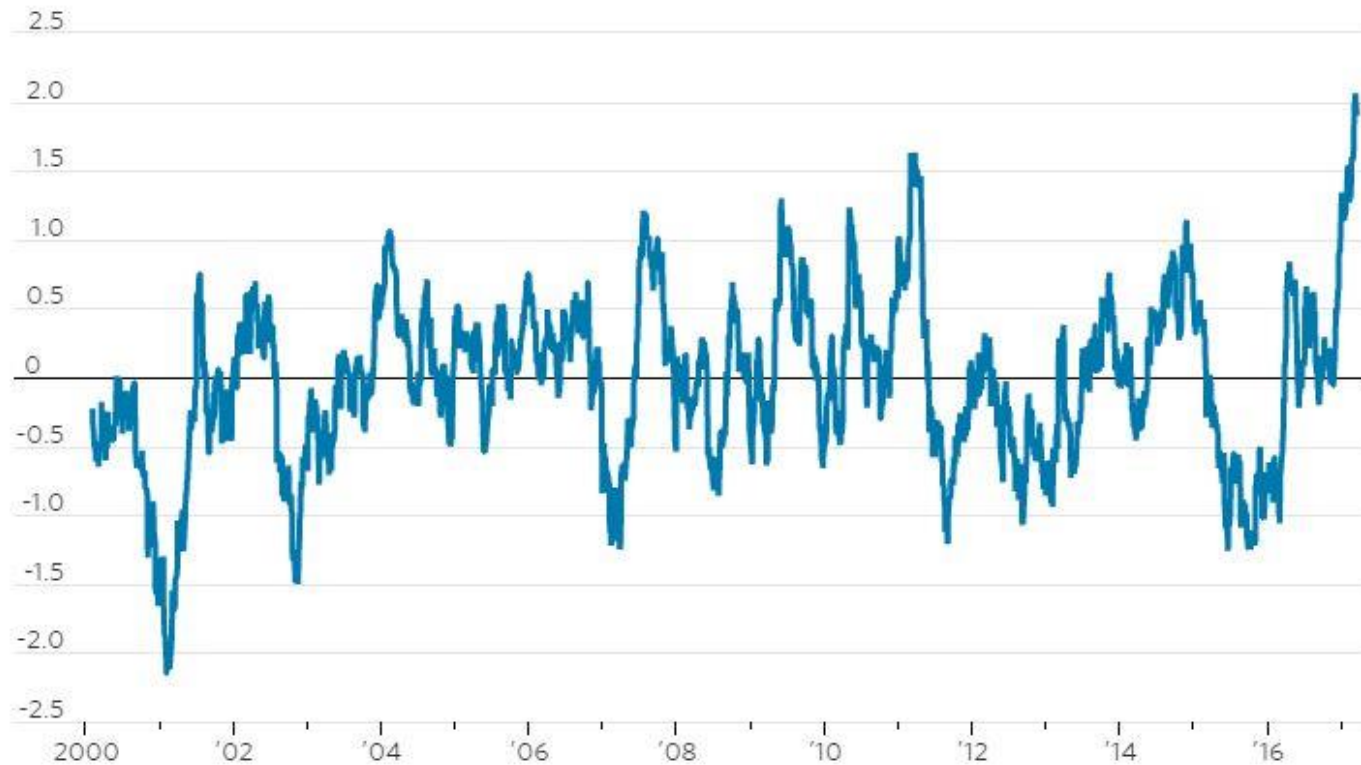
# U.S. Economic Factors

- Employment
  - April unemployment rate at 4.4%
  - Slight decrease from previous month
  - Participation rate remains low, 63%
- Inflation
  - Inflation projected to increase
  - Trumponomics effect moving forward
- Other
  - Student loan debt increasing
  - Subprime automobile loans increasing

# “Soft” vs. “Hard” data

## Survey Says

Spread between “soft” consumer-sentiment metrics and “hard” economic data



Note: Based on components of Bloomberg U.S. Economic Surprise Index

Source: Morgan Stanley Research

THE WALL STREET JOURNAL

# Negative Interest Rate Policy

## Current Global Rates

- 5 central banks are still executing a negative interest rate policy
- NIRP has thus far failed to stimulate economies as expected
- Larger central banks seem to be losing confidence in NIRP and may need to lean more heavily on expansionary monetary policy.

Country	2 year	5 year	10 year
US	1.299	1.863	2.343
Canada	0.687	1.017	1.585
UK	0.118	0.521	1.126
France	-0.436	-0.059	0.879
Germany	-0.688	-0.314	0.417
Sweden	-0.682	-0.097	0.562
Switzerland	-0.938	-0.596	-0.103
Japan	-0.182	-0.126	0.028
Australia	1.638	2.089	2.582

Source: Bloomberg

As of 5/15/2017



# Investing in Rising Rate Environment

## Be Opportunistic

- Interest rate volatility will create moments of opportunity
- Keep cash on hand, but be willing to put it to work

## Be Disciplined

- Following a laddered or barbell strategy will keep portfolio balanced
- Investing regularly will be smartest in the long run

## Be Flexible

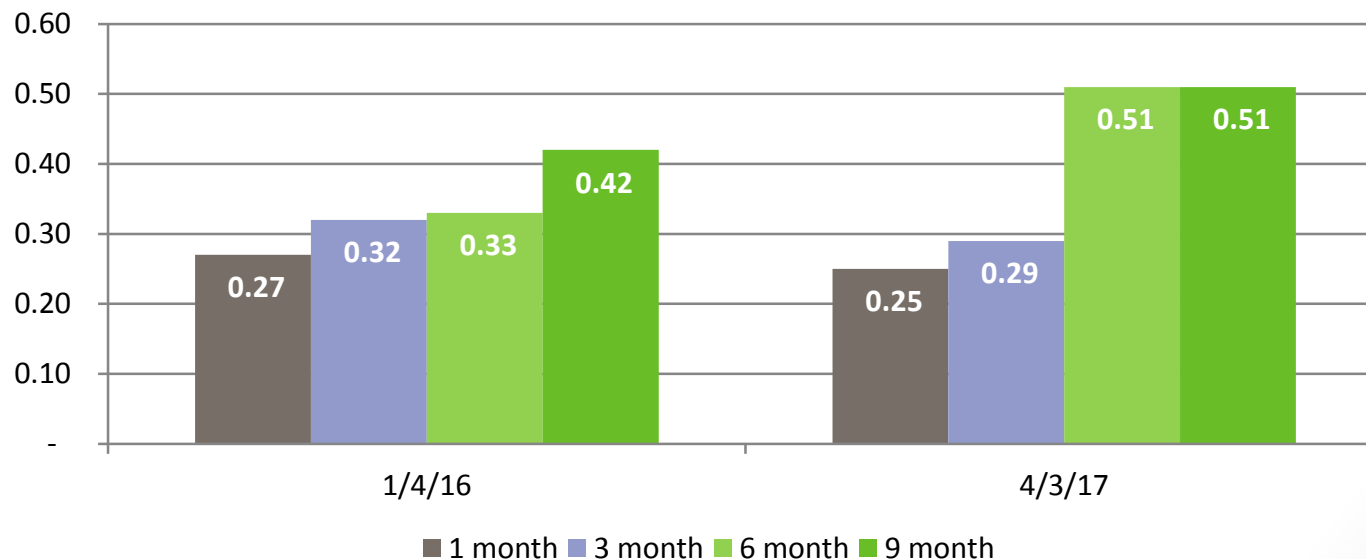
- Keep your paradigm adaptable to a changing environment
- New products and programs will come into favor while others will fade

# Commercial Paper

## Spreads Have Widened

- Money market reform resulted in changes to prime funds
- As a result, over \$900B in assets moved to government funds
- Commercial paper is a large component of prime funds
- Decreased demand resulted in increased commercial paper yields

Commercial Paper (A1/P1) vs. Agency Discount Notes

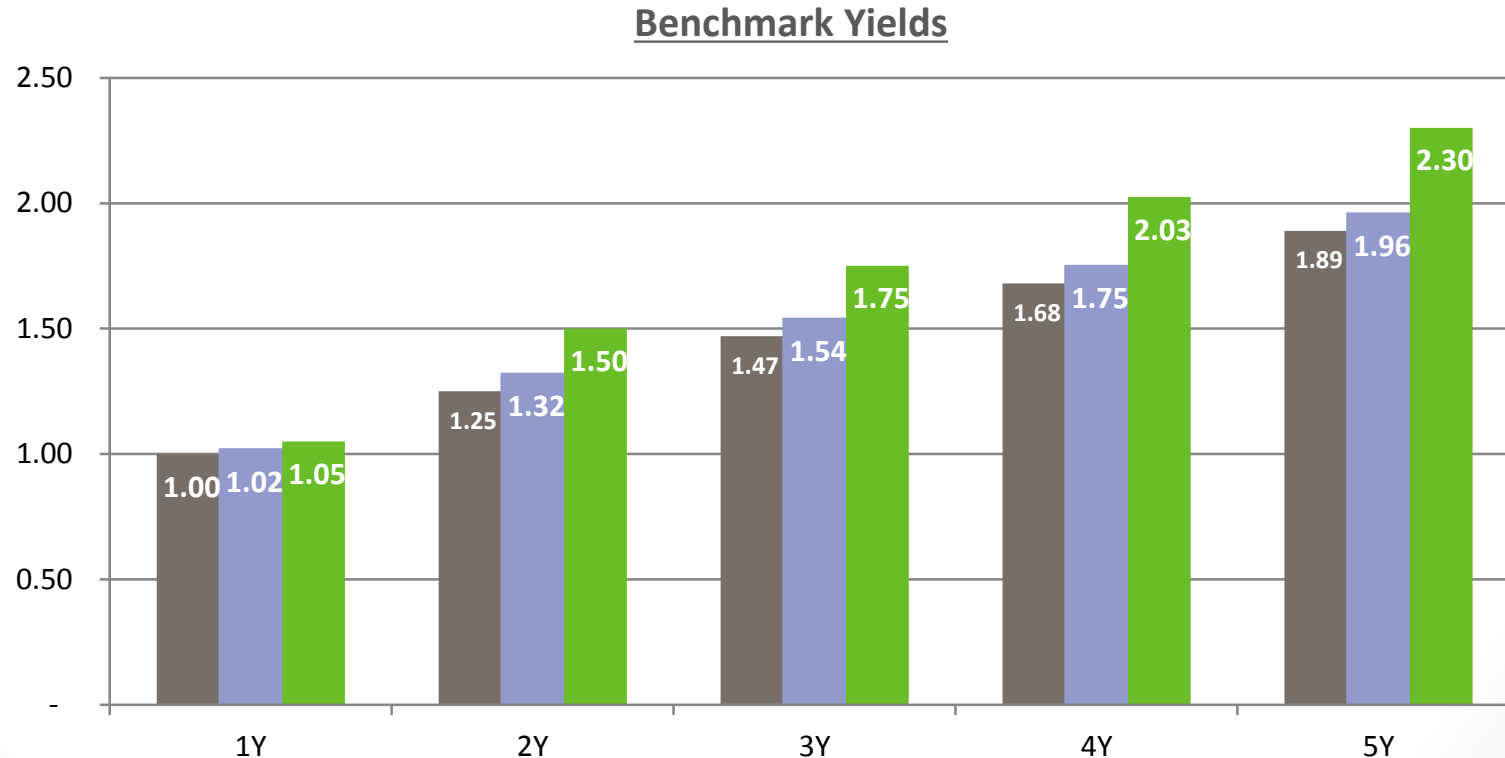


Source: Bloomberg  
As of 04/03/2017

# Certificates of Deposit

## CD Yields are Highest Amongst Other Bullet Options

- As agency spreads have narrowed, CD spreads have maintained
- Negotiable CD rates are 15-30 bps higher than 2–5 year agency bullets



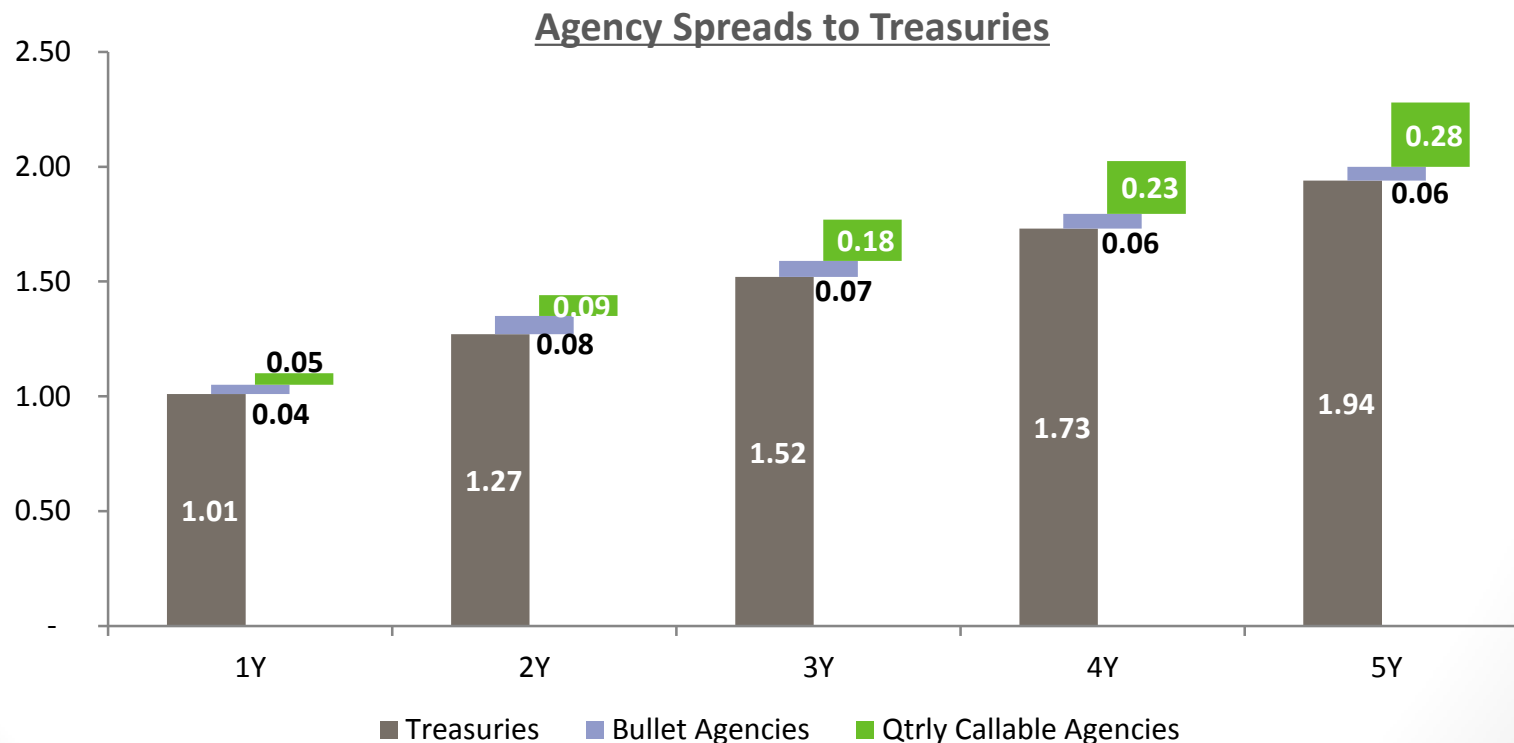
Source: Bloomberg  
As of 04/03/2017

■ Treasuries ■ Agencies ■ CDs

# Callable Agency Bonds

## Provides Yield Enhancement Over Bullets

- Callables can achieve incremental yield compared to noncallable agencies
- Required liquidity is an important factor when deciding to add callable agency bonds to a portfolio.



Source: Bloomberg  
As of 04/03/2017