



# **Takeaways**

The FOMC September economic projections reveal a lower Fed funds rate path together with lower long-run GDP growth expectation. The FOMC Fed funds projected path mean and median remain above dealers' expectations for 2018 - 2019

The Fed funds futures are priced at only one rate increase by the end of 2017. The December rate hike implied probability is at 68%

September's month-end term premium on long-term Treasury yields retreated back to their lows after the soft increase in mid-September due to higher than usual financial market volatility and uncertainty around the Fed's and other Central Banks' announcements

We continue to expect limited increase in long-term yields in the long run due to global risk-off sentiment, low inflation risk, moderate growth expectations, and the condensed duration risk environment



# Unconventional monetary policy

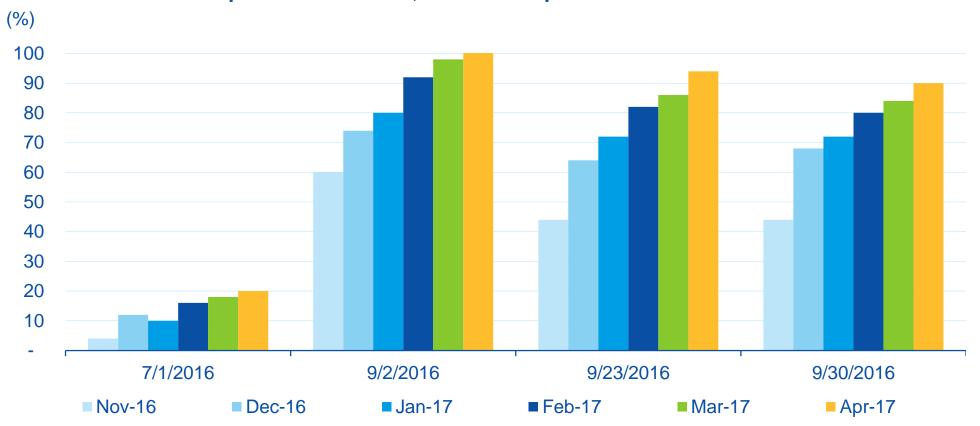
### **Federal Funds Rate and 10-Year Treasury Note**





# December rate hike probability at 68%

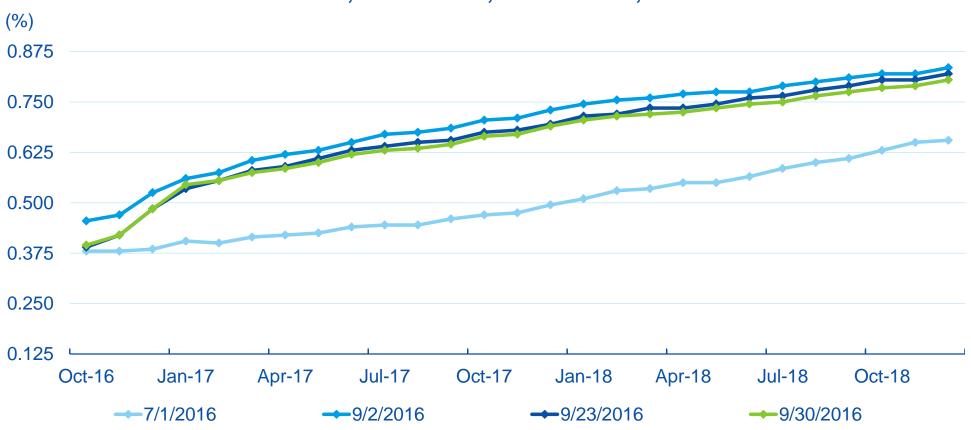
## Fed Funds Futures Implied Probabilities, Second 25bp Hike





## Fed funds futures curve

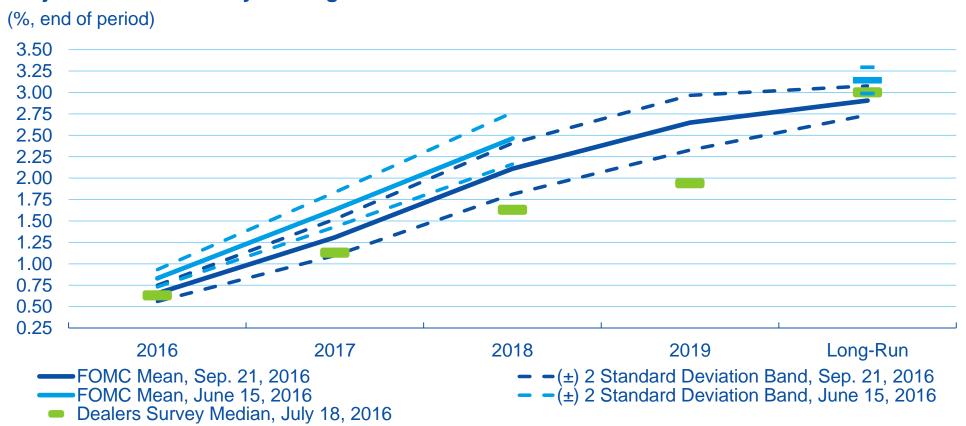
#### Fed Funds Futures - Most Recent, 1 Week Prior, 1 Month Prior, 3 Months Prior





# FOMC revised downwards the policy firming path by 18 basis points in 2016 and 32 basis points in 2017

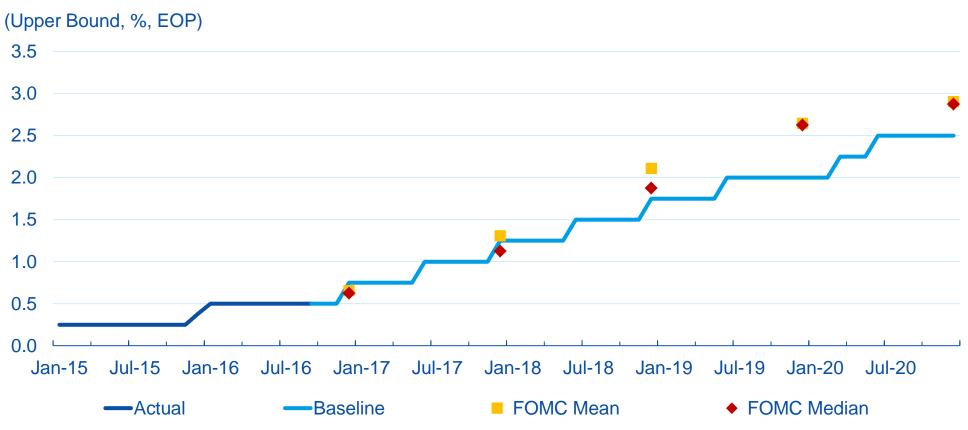
## **Projected Pace of Policy Firming**





# BBVA forecast of the pace of Fed funds firming unchanged

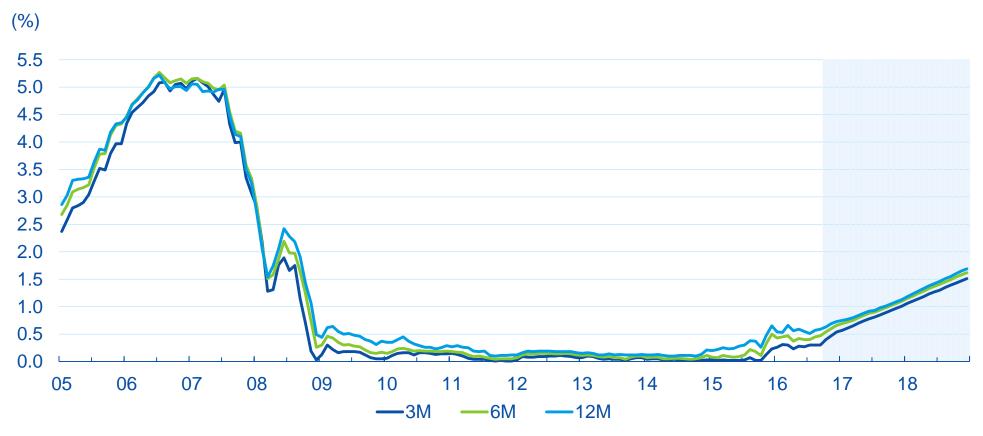
#### **Federal Funds Rate**





# Baseline forecasts of Treasury Bill yield

#### 3-Month to 12-Month Rates





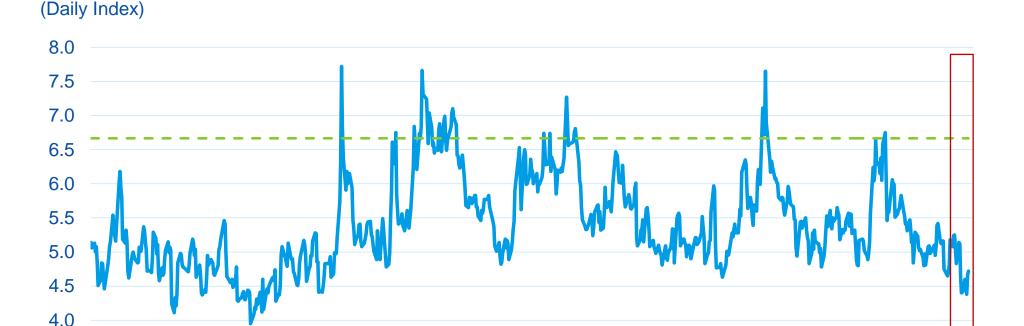
3.5

Jan-14

Apr-14

# Long-term yield volatility is contained at historic low

## 10-Year U.S. Treasury Note Volatility



Index measures a constant 30-day expected volatility of 10-Year Treasury Note futures prices, and is calculated based on transparent pricing from Chicago Board of Trade's actively traded options on the Treasury Note futures.

Apr-15

**Jul-15** 

Oct-15

Jan-16

Mean since 2003

Apr-16

Jul-16

Jul-14

Oct-14

Index

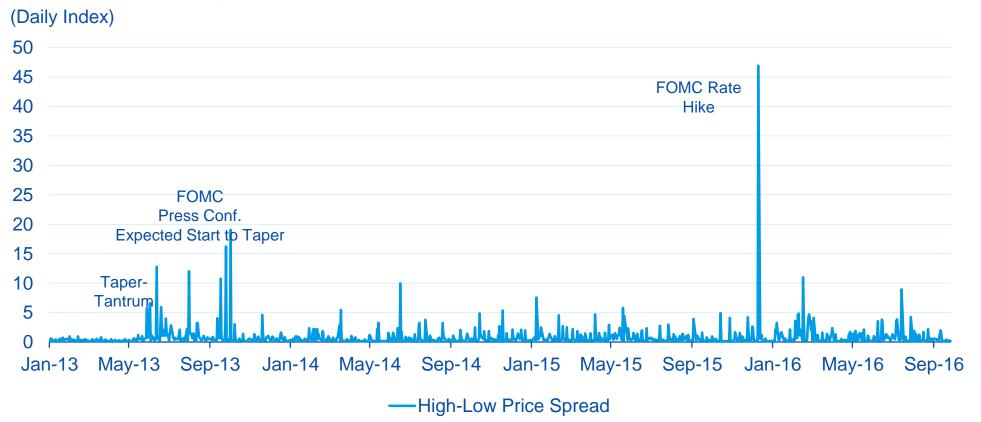
Jan-15

Oct-16



# Long-term yield volatility is contained at historic low

## 10-Year U.S. Treasury Note Volatility





# Downward pressure on term premium unchanged

## 10-Year U.S. Treasury Term Premium & Market Inflation Expectations





# Long-term duration-risk compression retreats into negative territory

## **Duration-Risk Compression**



Calculated as the difference between 5-Year and 3-Year term premium reported by the New York Fed ACM (Adrian, Crump, and Moench) five-factor, no-arbitrage term structure model incorporating pricing factors.



# Mid-term duration-risk compression once again crosses over into negative territory

## **Duration-Risk Compression**



Calculated as the difference between 5-Year and 3-Year term premium reported by the New York Fed ACM (Adrian, Crump, and Moench) five-factor, no-arbitrage term structure model incorporating pricing factors.



# 10-year treasury yield forecasts

### 10-Year U.S. Treasury Yield



<sup>\*</sup> National Association for Business Economics (NABE) Outlook median forecast compiled from a panel of NABE members. Last release date Sep 11, 2016

<sup>\*\*</sup> Survey of Professional Forecasters (SPF) conducted by Federal Reserve Bank of Philadelphia. Last release date August 12, 2016

<sup>\*\*\*</sup> Congressional Budget Office (CBO). Last release date Aug 23, 2016

<sup>\*\*\*\*</sup>The Blue Chip Consensus is the average of about 50 private forecasts. Last release date July 19, 2016



# Yield curve slope forecasts

## **Treasury Yield Curve Slope**

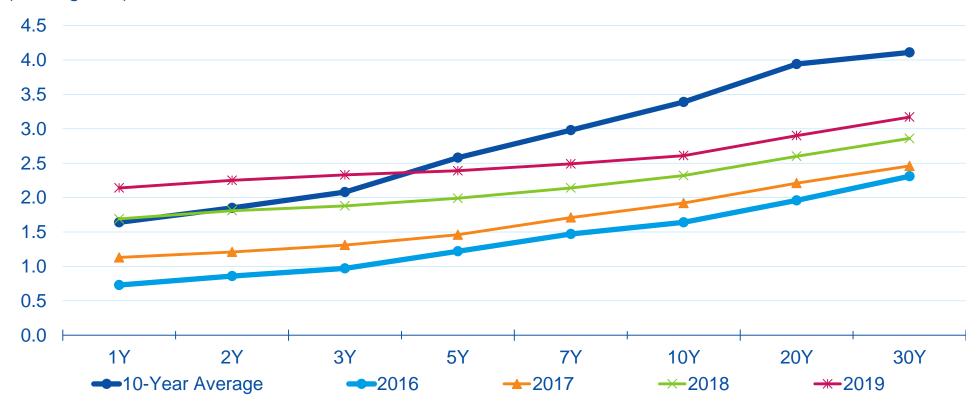




## Yield curve forecasts

## **Treasury Yield Curve Baseline Forecast**

(Average, %)





## Treasury yield curve baseline forecasts

## **U.S. Treasury Yield Curve**



Treasury yield curve is estimated with a three-factor no-arbitrage model linked to macroeconomic factors measuring growth, inflation and monetary policy. Estimates are based on BBVA Research baseline forecast for GDP growth, inflation and Fed funds rate.



# Swap curve baseline forecasts

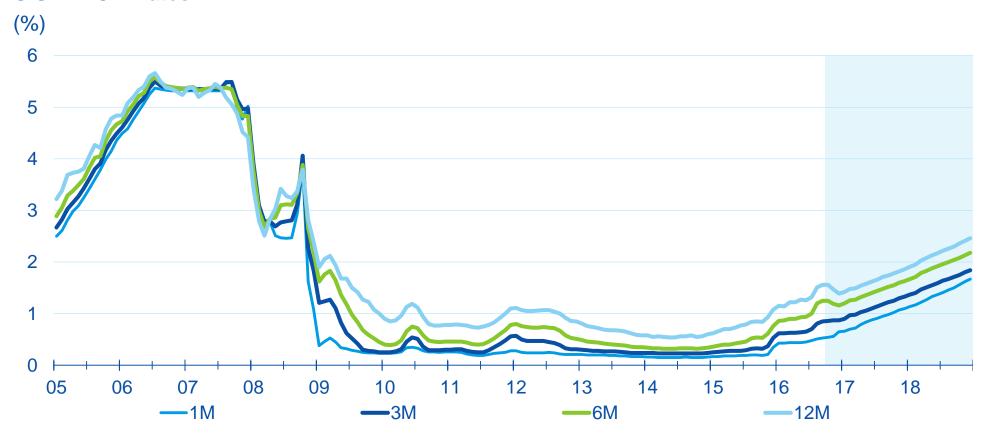
## **U.S. Swap Rates**





## LIBOR curve baseline forecasts

#### **U.S. LIBOR Rates**





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