

The logo for BBVA Research, featuring the text "BBVA" in a bold, white, sans-serif font, followed by "Research" in a smaller, lighter weight sans-serif font. A small teal square is positioned to the right of the word "Research".

BBVA Research

# U.S. Economic Outlook

October 2018

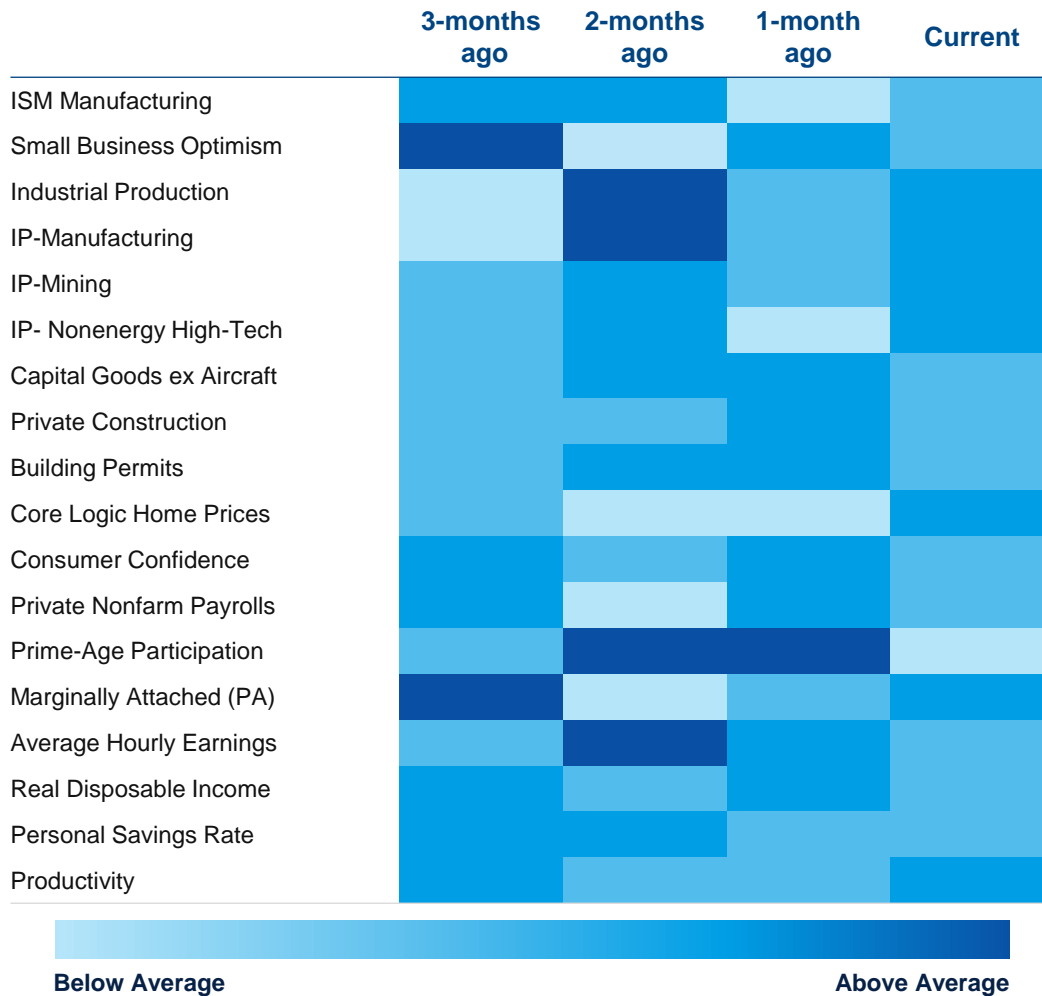
Creating Opportunities

## Economic Outlook

- Economic conditions remain consistent with high growth in 2018 & 2019, upside risks to inflation contained
- FOMC remains poised to raise rates in December. Baseline assumes three additional increases in 2019
- Labor market slack continues to decline, as unemployment rate nears 50 year lows at 3.7%
- Inflation pressures ease in 3Q18, but tariffs and rising nonlabor price pressures will continue to buoy inflation expectations. Our scenario continues to anticipate a slight overshooting of 2% target
- A correction in market expectations exerts upward pressure on 10-year Treasury yields in line with our baseline
- Higher uncertainty about long-run equilibrium oil prices

# Economic activity

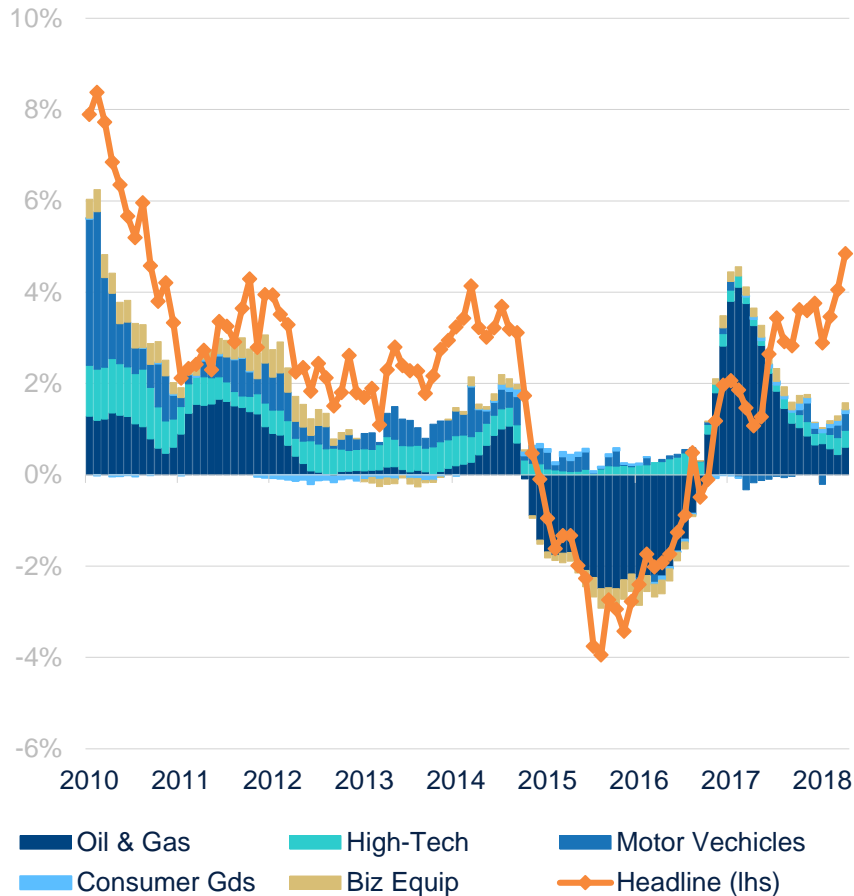
## Real-Time Economic Momentum Heat Map



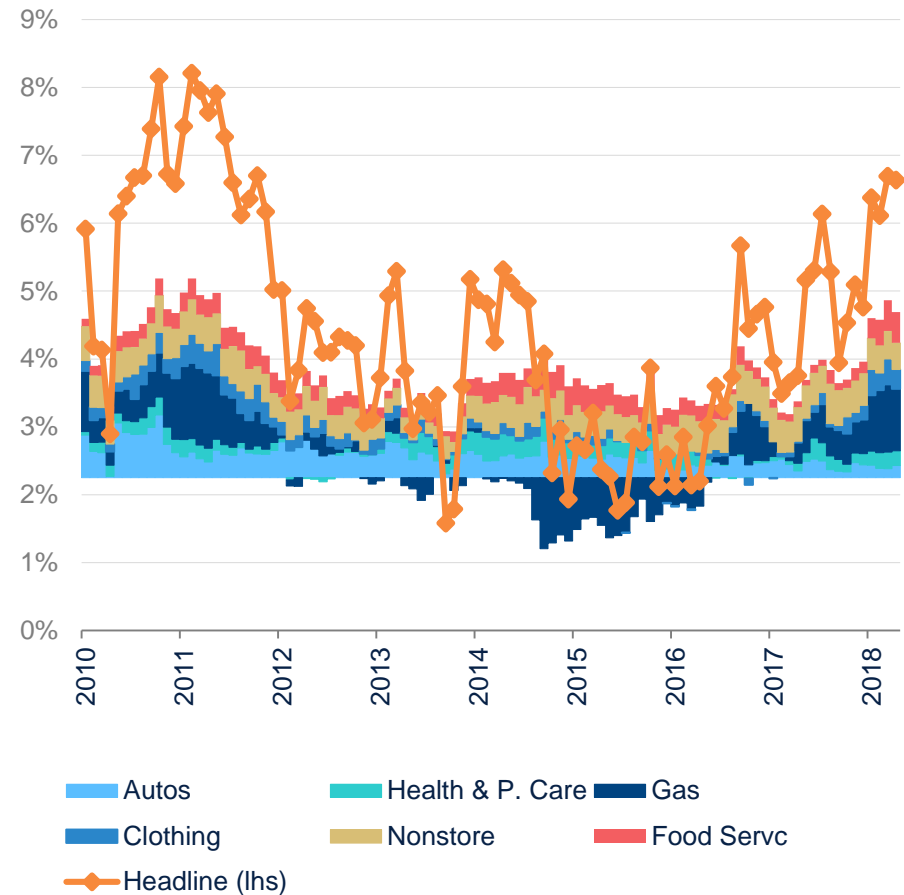
- Momentum slowing, but broader economic trends remain positive
- Mining, manufacturing and utilities all growing positively
- Consumers remain extremely optimistic about current conditions and the future
- Some short-term labor market volatility from major weather events
- Productivity growth highest since 2015

# Economic trends: Pervasive growth in industrial sectors, consumer momentum slowing somewhat

## Industrial Production (Year-over-year %)



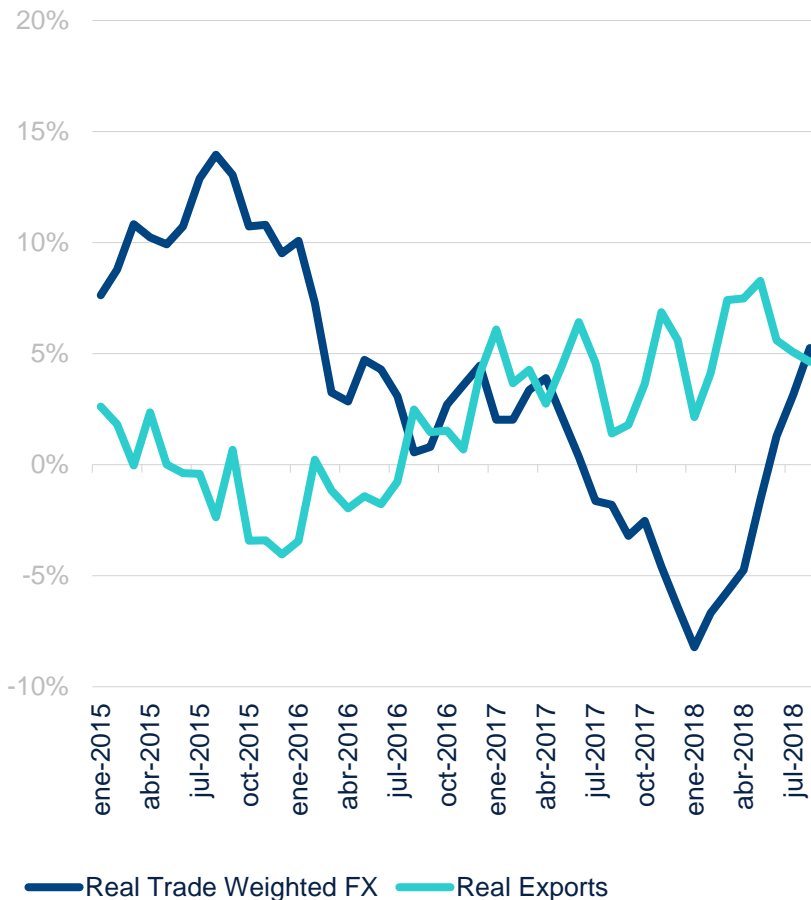
## Retail Sales (Year-over-year %)



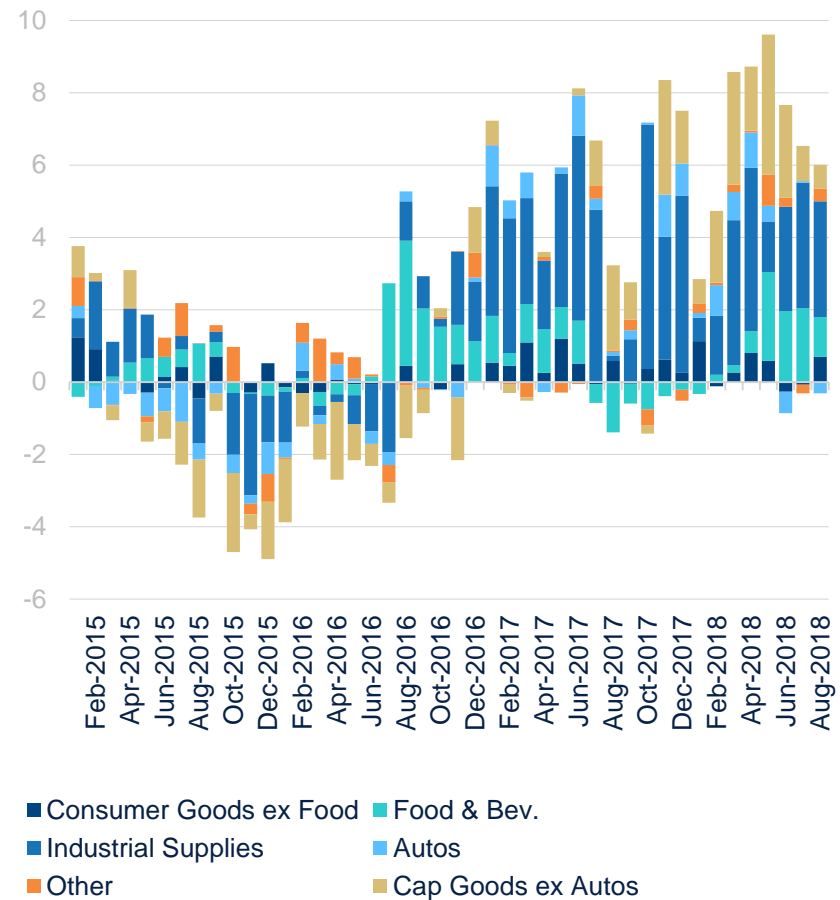
Source: BBVA Research, FRB & BEA

# Economic trends: Exports face persistent headwinds from tariffs and dollar strength

## Real Exchange Rates and Exports (Year-over-year %)



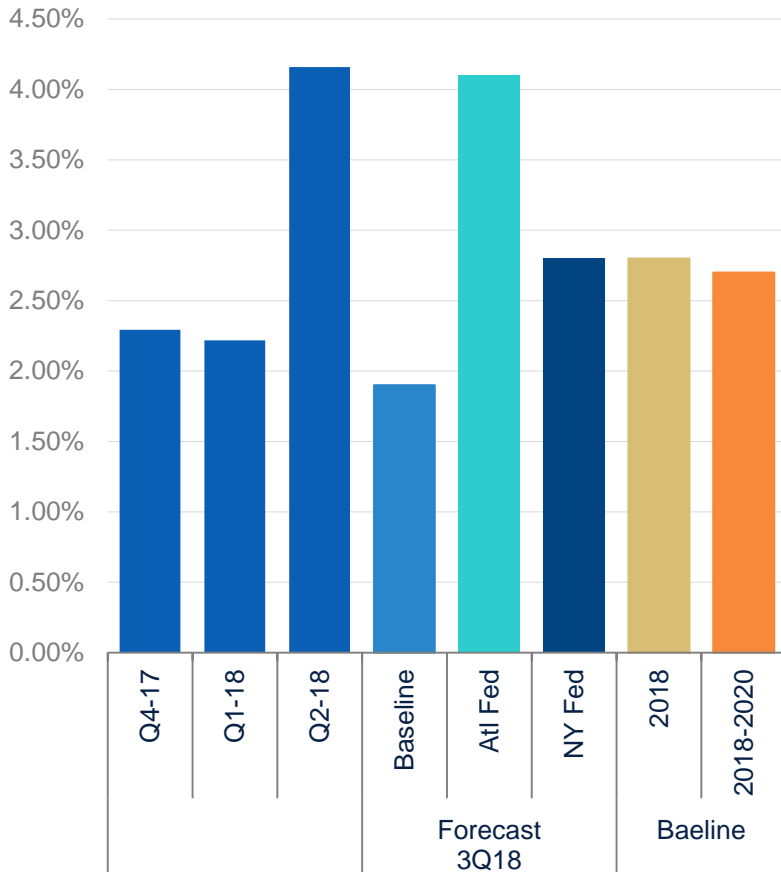
## Real Exports (Contribution to year-over-year %)



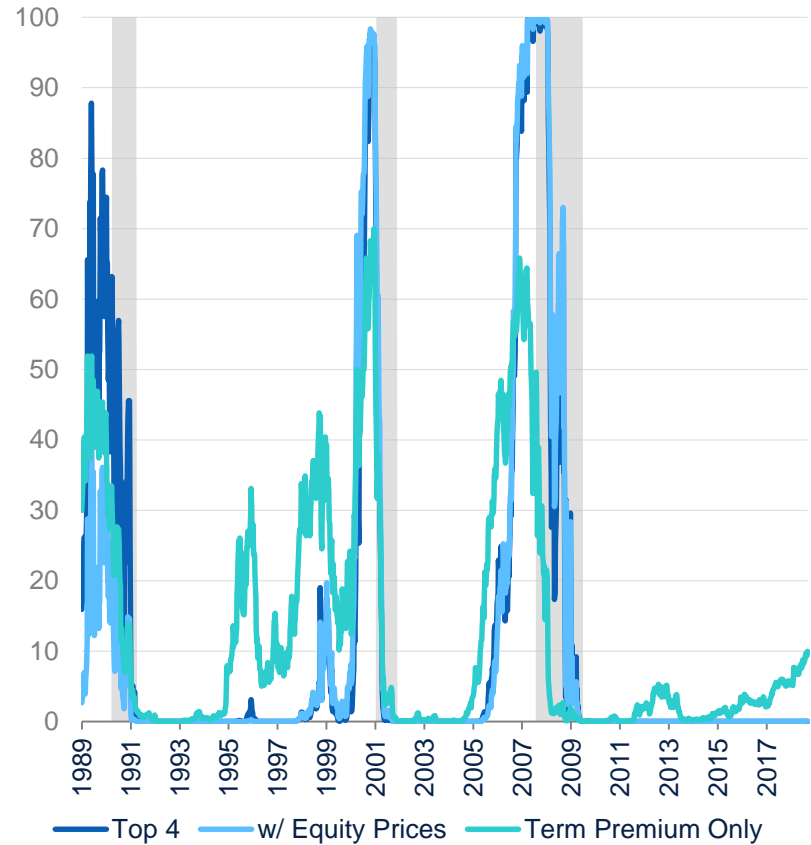
Source: BBVA Research, FRB & Census

# Economic trends: Growth likely to decelerate in 3Q18, but recession probability remains low

**Real GDP**  
(QoQ SAAR, %)



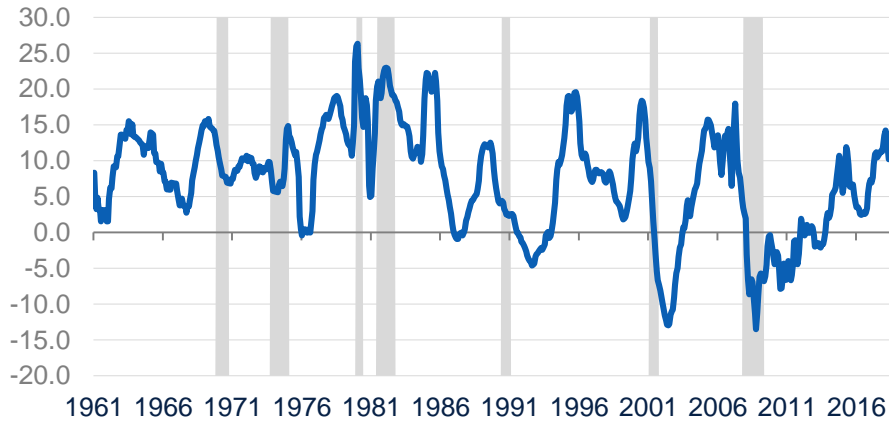
**Probability of Recession in 12 Months**  
(%)



# Consumer credit cycle: Lending standards easing for auto and consumer loans, leverage remains low

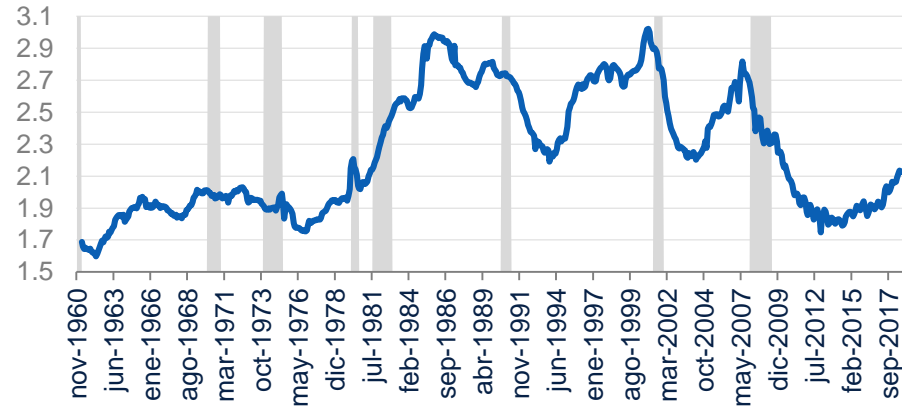
## Personal Interest Expense

Year-over-year %



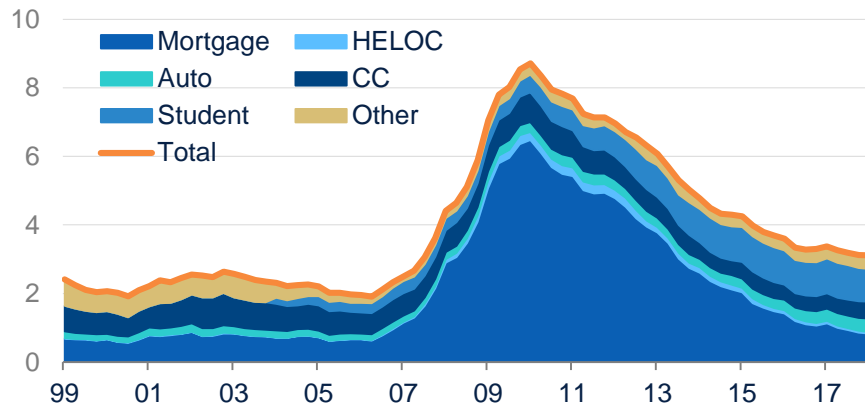
## Personal Interest Expense to Disp. Income

Ratio, %



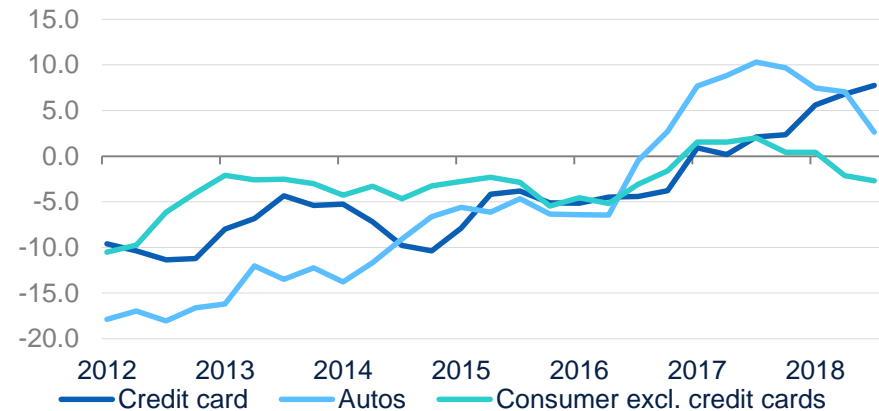
## New 30+ Day Consumer Delinquencies Rates

%



## Senior Loan Officers Lending Standards

+ tightening / - loosening



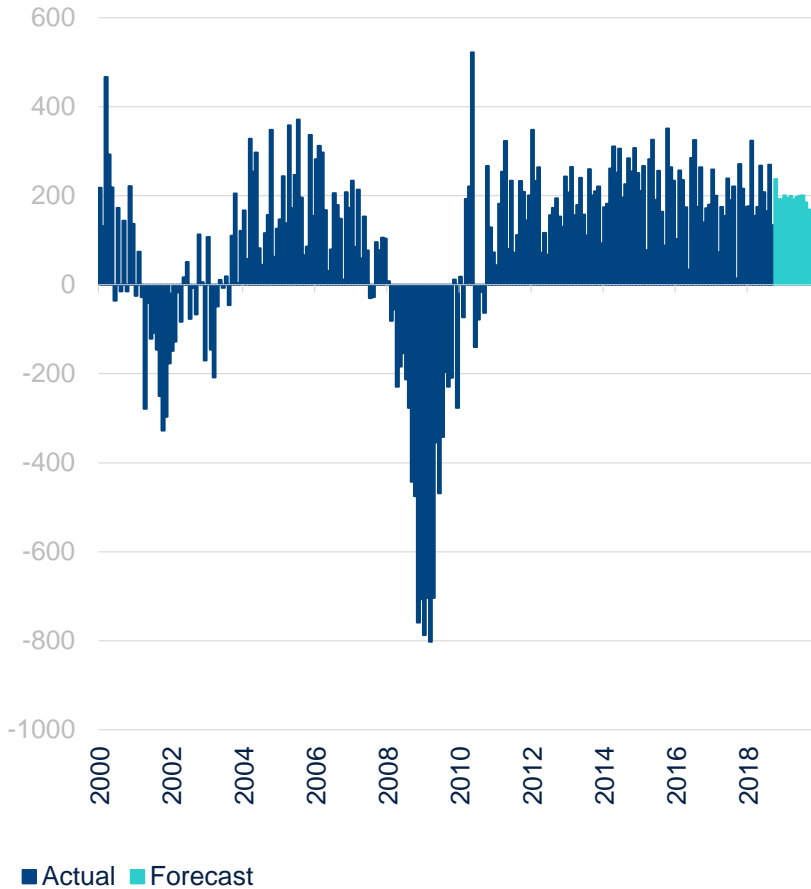
## Labor Market

- In September, nonfarm payrolls increased at a slower than average pace (134K) due to the weather related impacts from Hurricane Florence
- In terms of industry trends, the report showed solid gains in professional and business services (54K), health care (26K), construction (23K), transportation and warehousing (24K) and construction (23K)
- The combined revisions for July and August imply 87,000 more job gains than previously reported
- The unemployment rate edged down to 3.7%, which is the lowest rate since December 1969
- The labor force participation rate remained at 62.7% while the employment-population ratio was little changed at 60.4%
- We expect the UR to trend close to its current rate at 3.7% by the end of the year. Monthly job gains to bounce back in 4Q18, as weather related effects fade

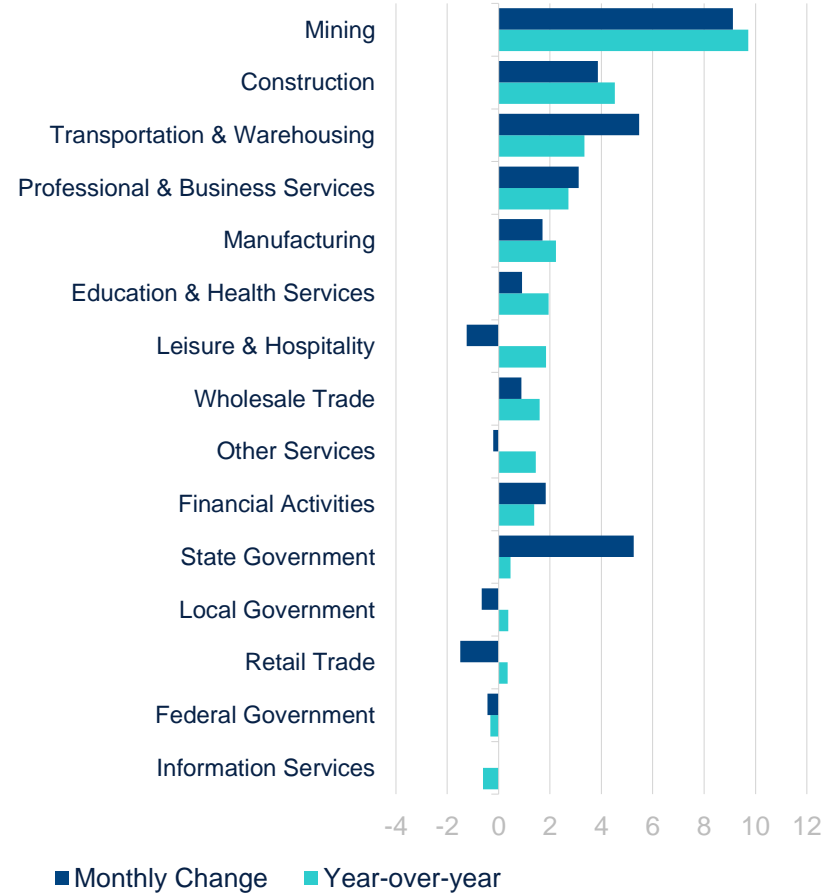


# Labor market: Hurricane impacts skew employment data in September

## Nonfarm Payrolls (Monthly Change, K)

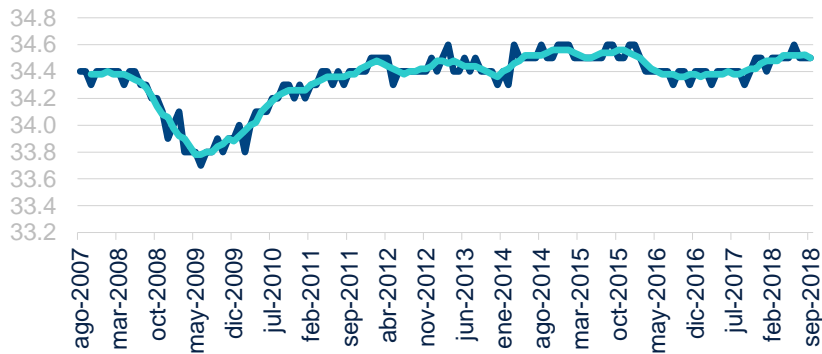


## Industry Employment (Annualized % change)

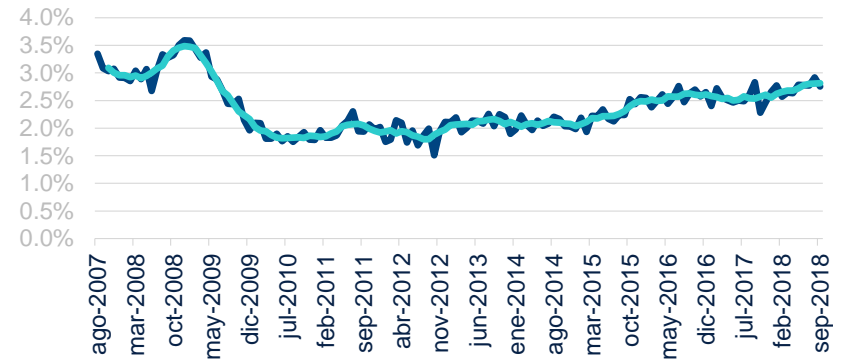


# Labor market: Higher wages drawing in more prime age workers

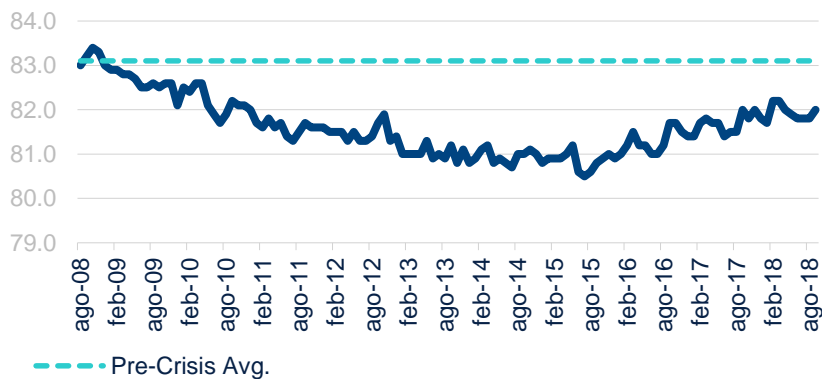
## Average Weekly Hours (number & 5mcoma)



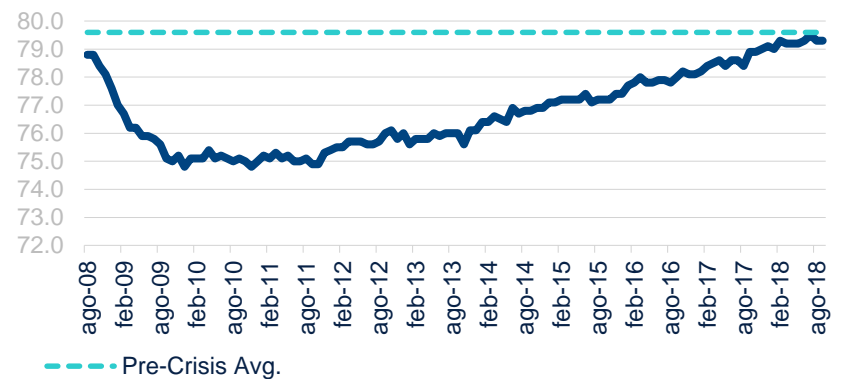
## Average Hourly Earnings (YoY% & 5mcoma)



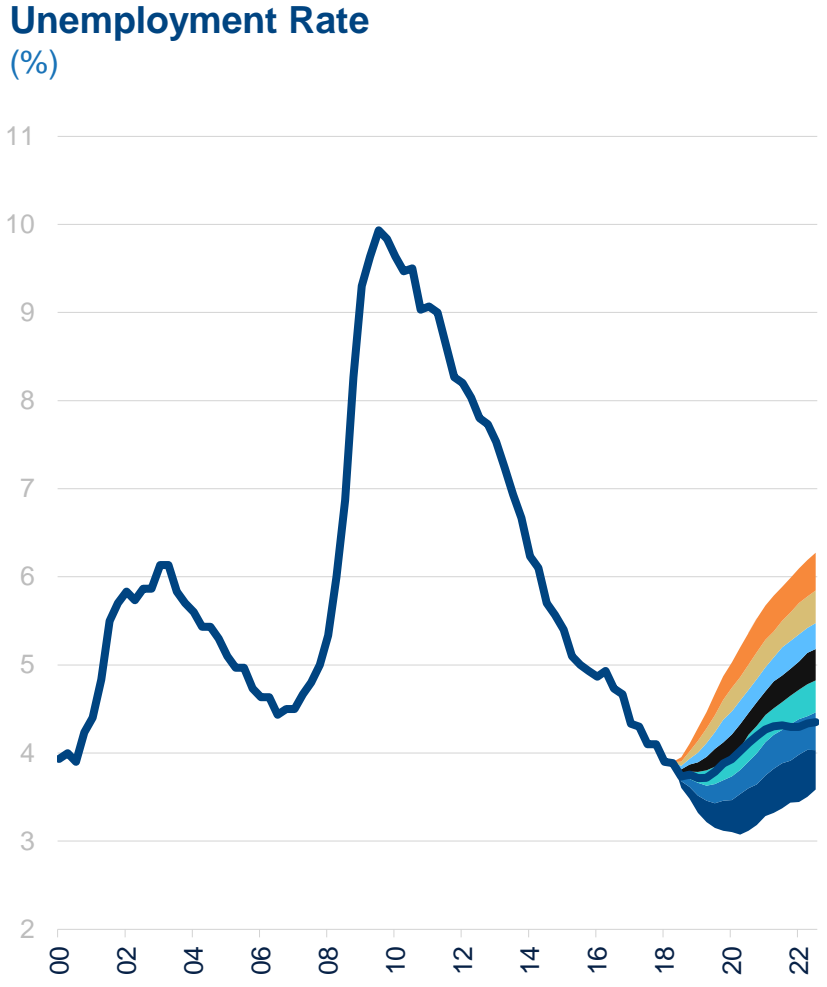
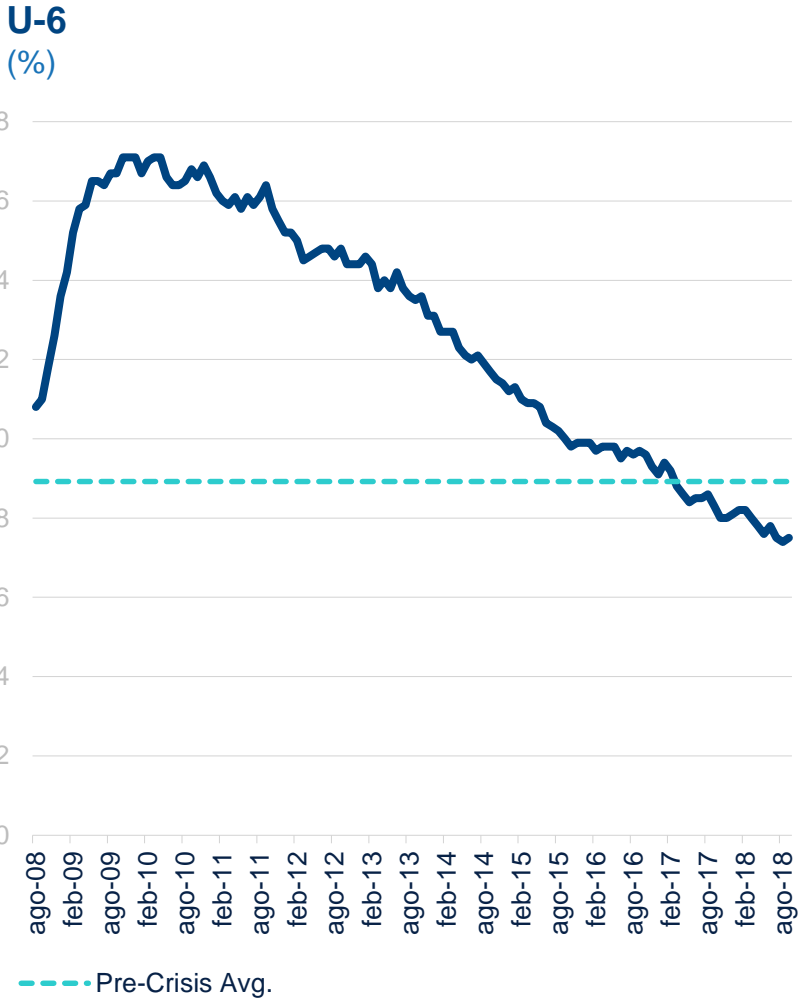
## Prime Age Labor Force Participation (%)



## Prime Age Employment-to-Population (%)



# Labor market: UR at lowest level since December 1969



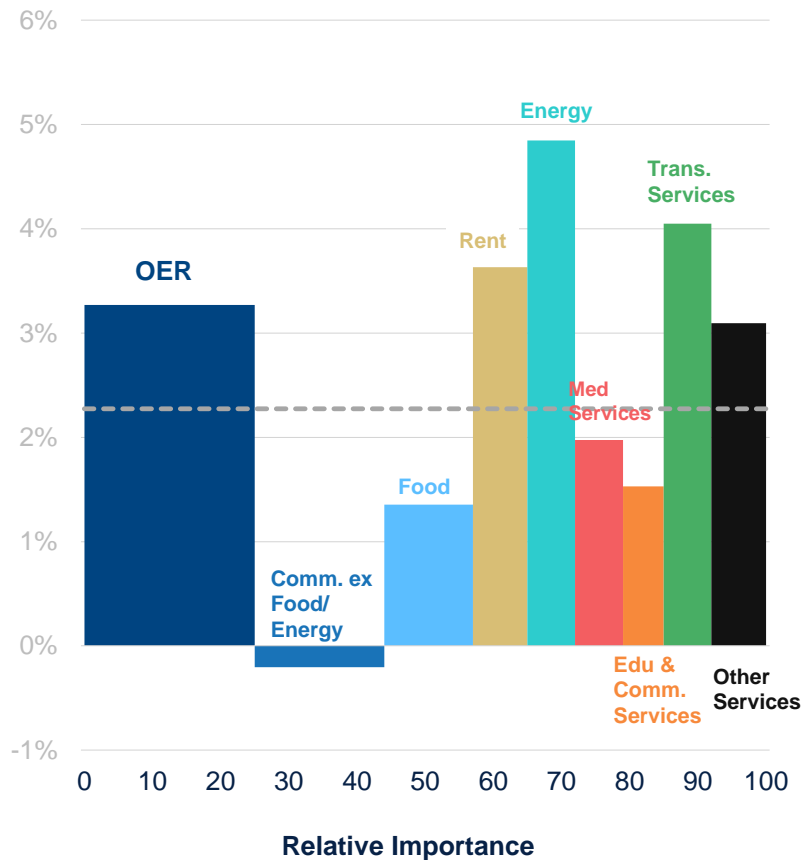
Source: BBVA Research & BLS

# Inflation

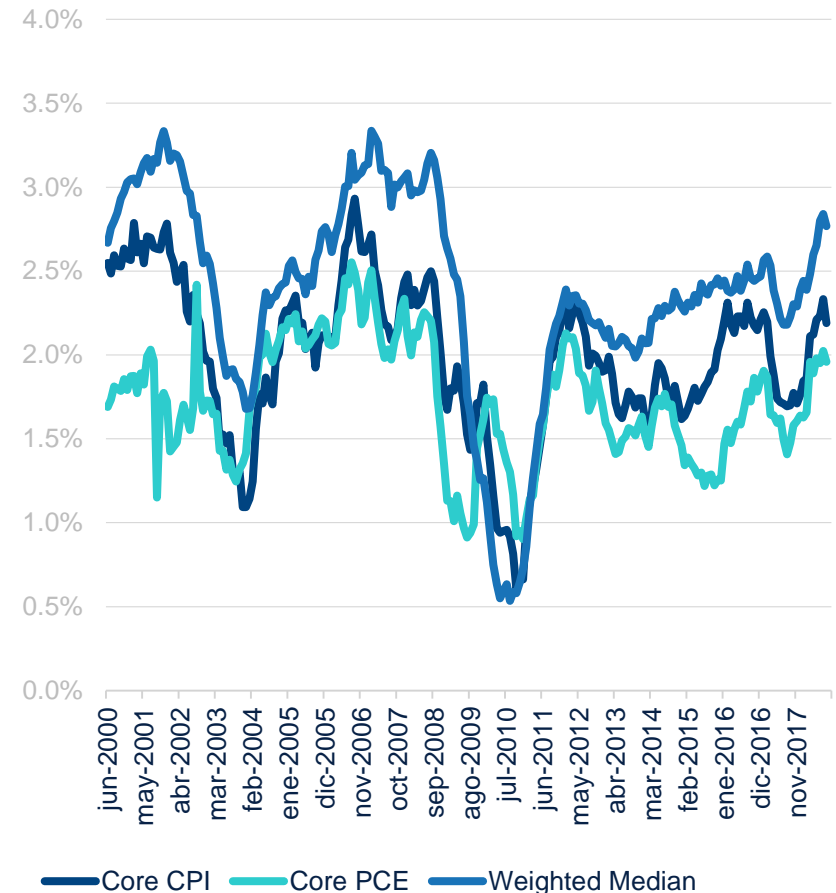
- Headline CPI decelerated to 2.3% while core CPI held steady at 2.2%
- Core PCE growth consistent with the Fed objectives
- In July, probability of entering high-inflation regime was less than 1%
- Inflation expectations trending upwards, but softer inflation data should assuage fears
- Core services remain largest contributor to overall inflation, as food and energy price pressures ease
- With additional tailwinds from an expansionary fiscal policy and tit-for-tat tariffs, core PCE will rise to 2.1% by 2019

# Inflation: Deceleration in consumer prices continue, but core prices buoyed by services

## Consumer Price Inflation (12m change)



## Core Inflation Measures (12m change)

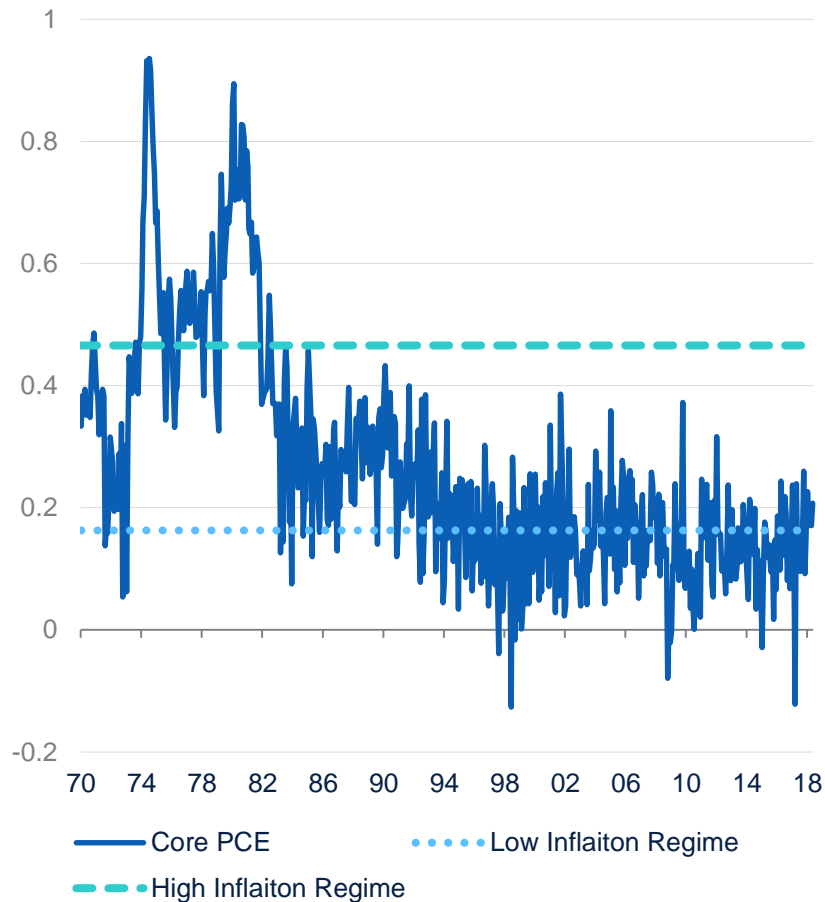


Source: BBVA Research, BLS & BEA

# Inflation: Easing inflation pressures lower probability of regime change

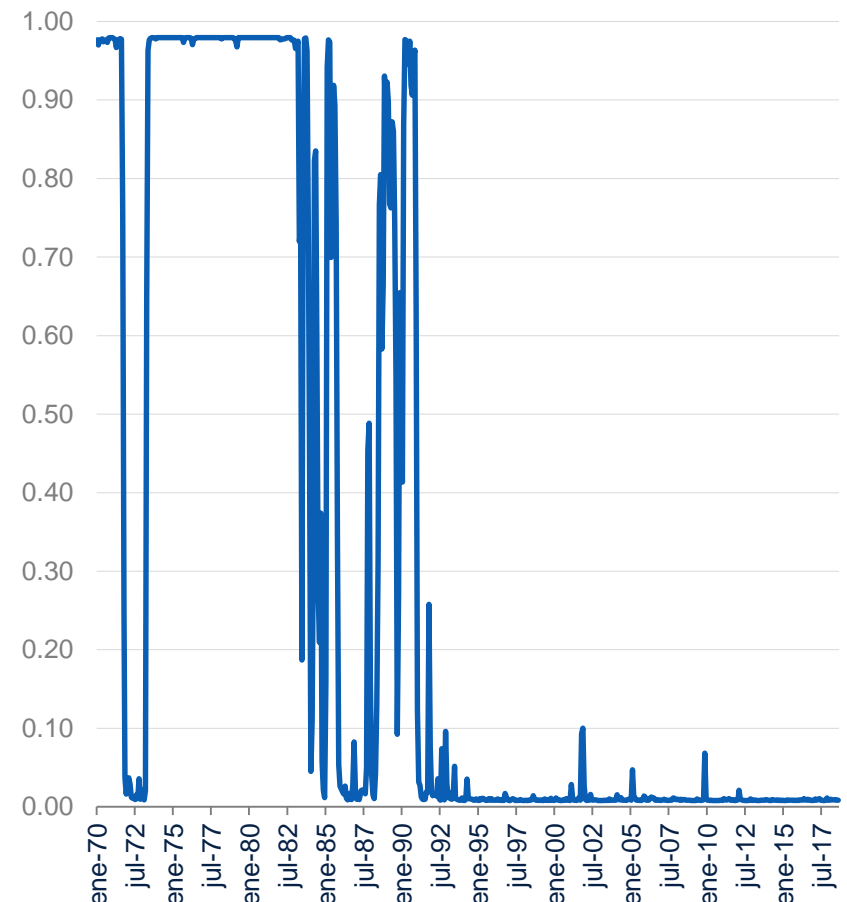
## Core PCE Price Index & Inflation Regimes

Month-over-month %



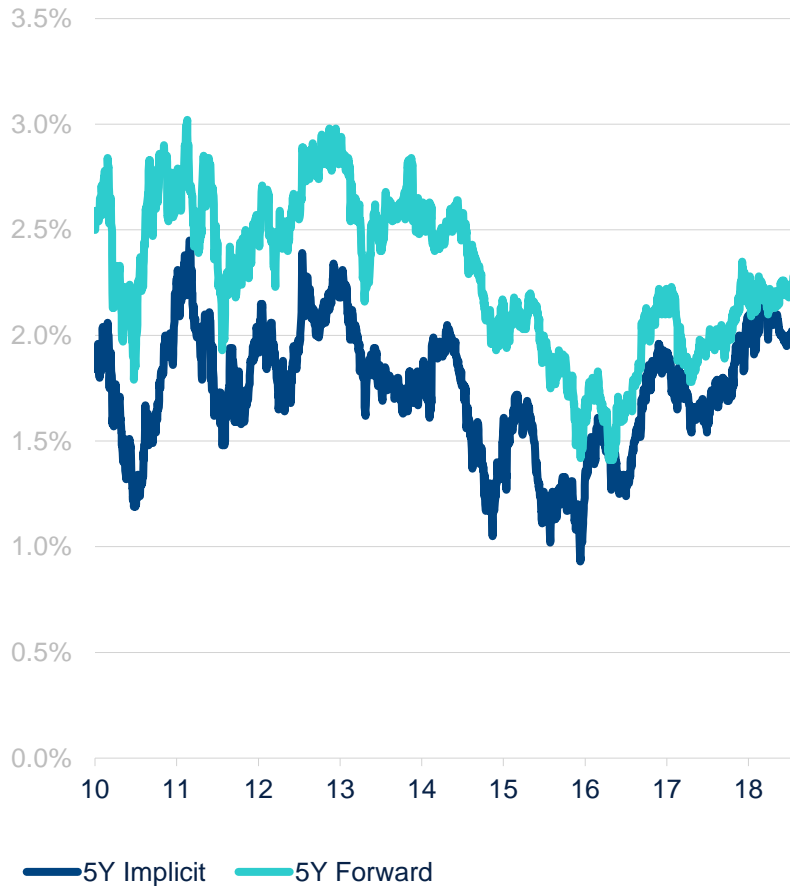
## Inflation Regime Change Probability

%

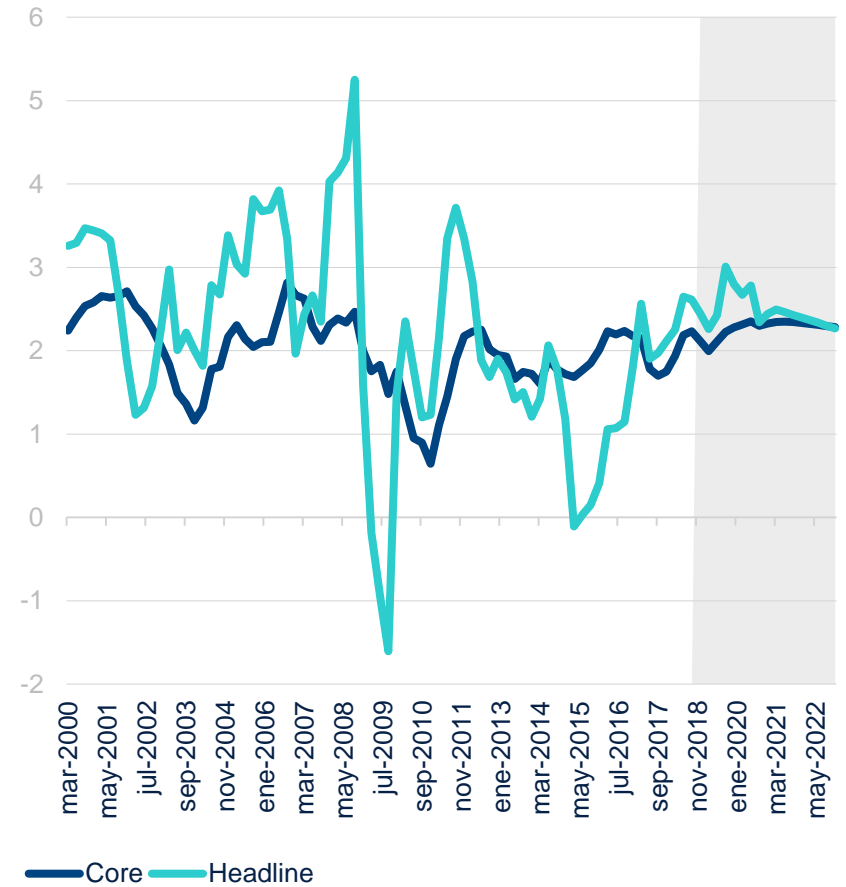


# Inflation: Inflation expectations edging up, but soft readings on actual inflation should contain any pressures

## Inflation Expectations (%)



## Headline & Core CPI (Year-over-year %)



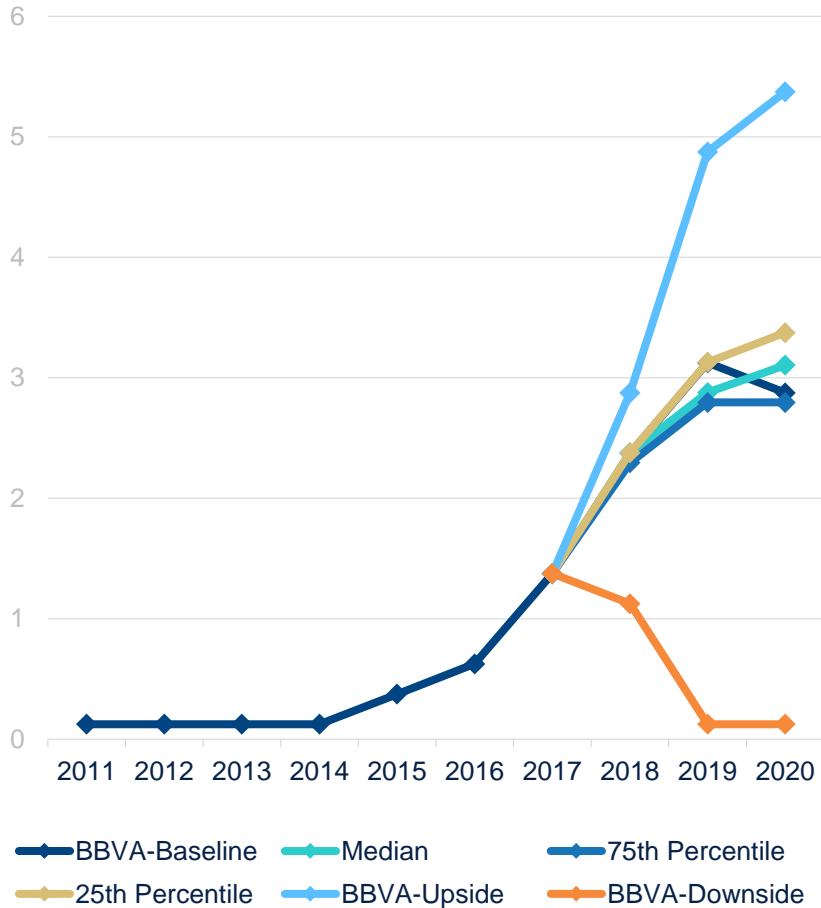
## Monetary Policy: Federal Reserve

- The FOMC raised the target range of the federal funds to 2.0%-2.25% at their September meeting
- The only significant adjustment to the statement, other than the change in the benchmark rate, was the removal of the Fed's explicit level of accommodation, reflecting that the Fed funds rate is approaching neutral levels
- Markets aligning with 3+ rate hikes in 2019 (~50%)
- Post-meeting market reaction was muted, but pressures on long-term rates and a more hawkish outlook have increased equity volatility
- The Fed's recent revisions put their economic outlook for 2018 and 2019 broadly in line with our baseline
- No changes to our outlook: Fed to raise rates one more time in December and three more times in 2019

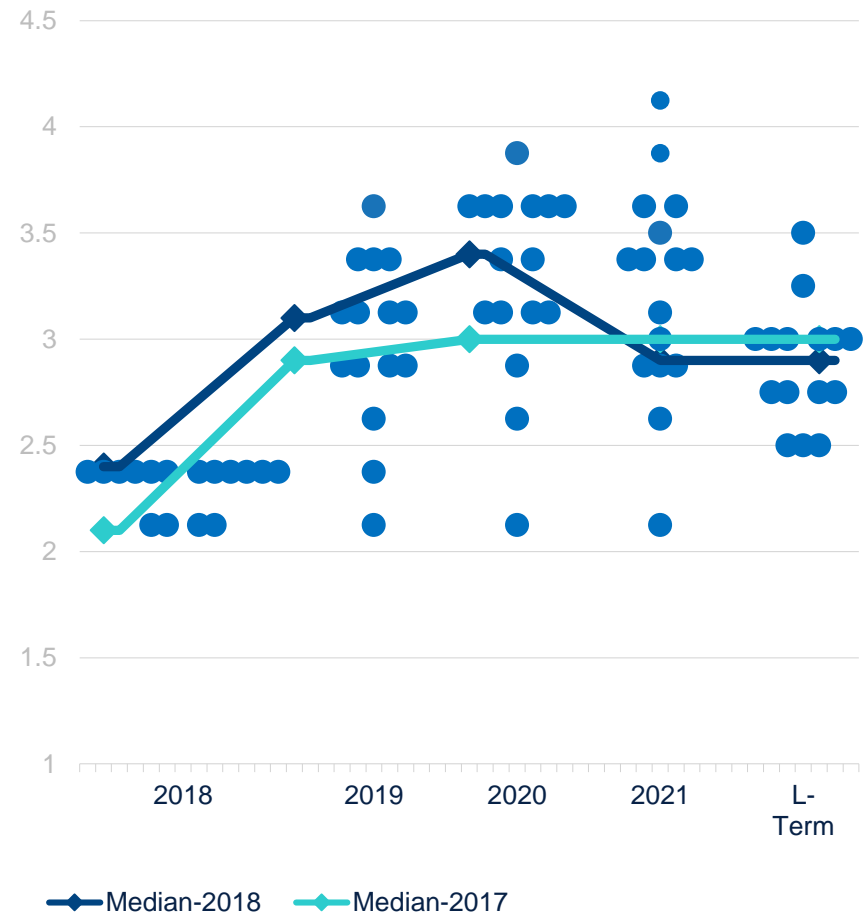


# Fed: No change to outlook, two rate increases this year and 3 rate increases next

## BBVA & Dealers Projections of Fed Funds (%, Effective)



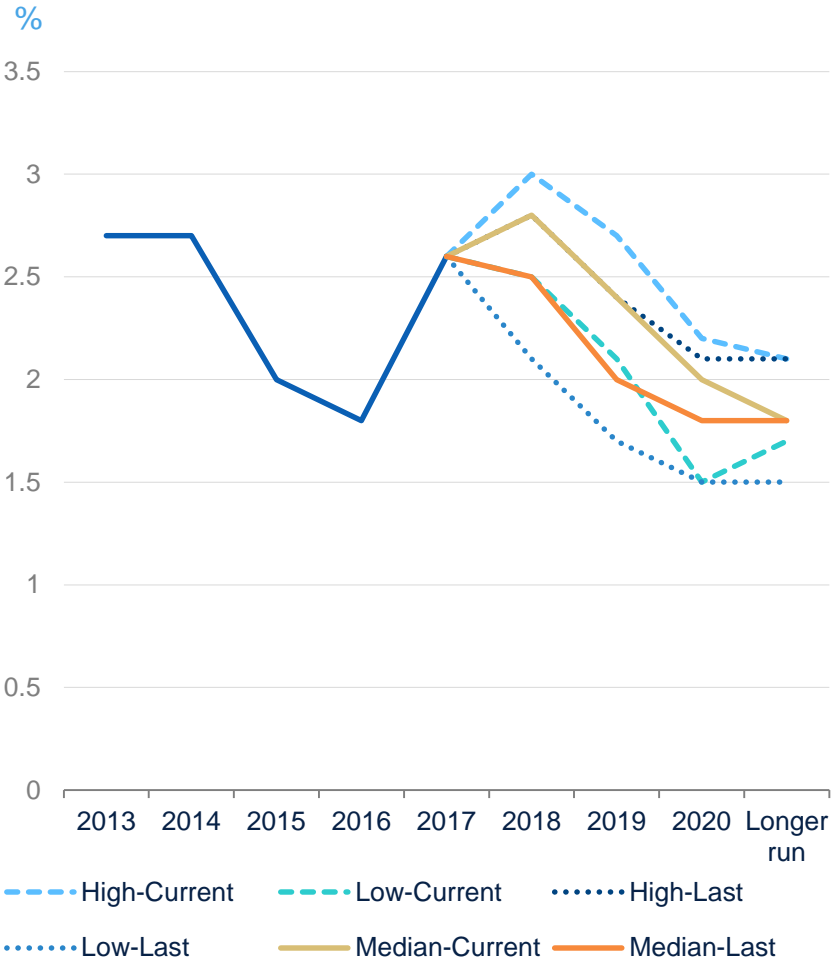
## FOMC Projections of Fed Funds (Year-over-year %, Mid-point)



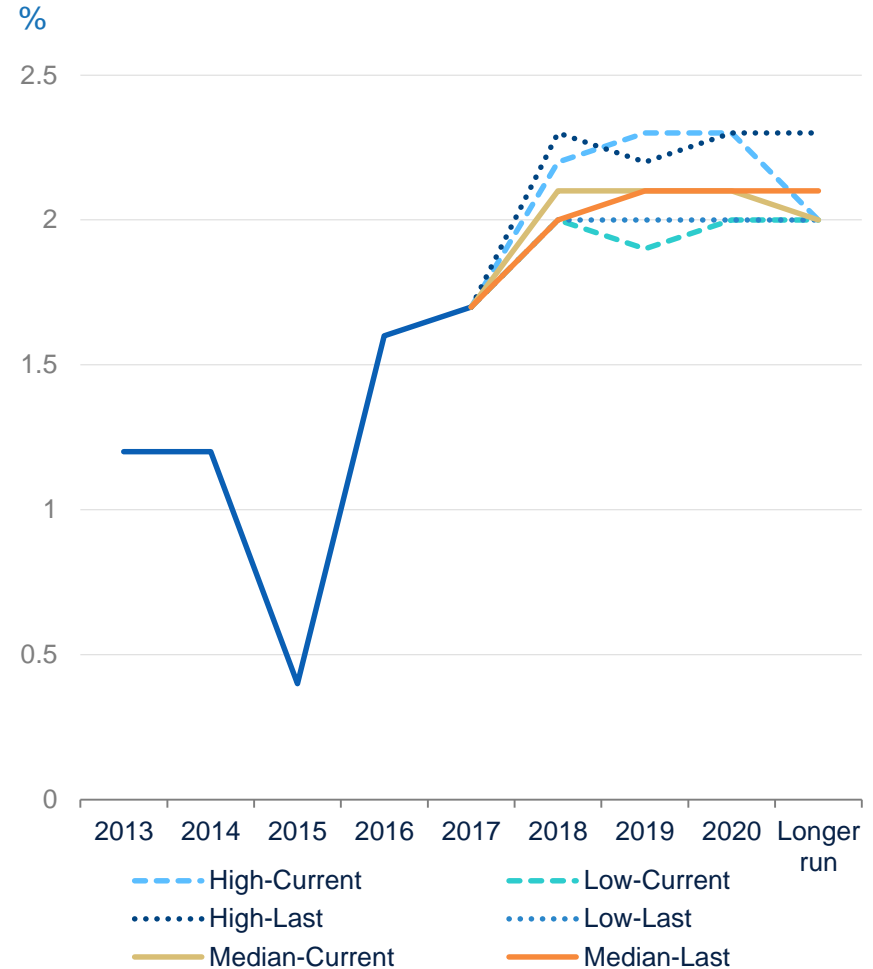
Source: BBVA Research & FRB

# Fed: Economic tailwinds and fiscal stimulus shift SEP outlook to the upside in medium-term

## Summary of Economic Projections- GDP

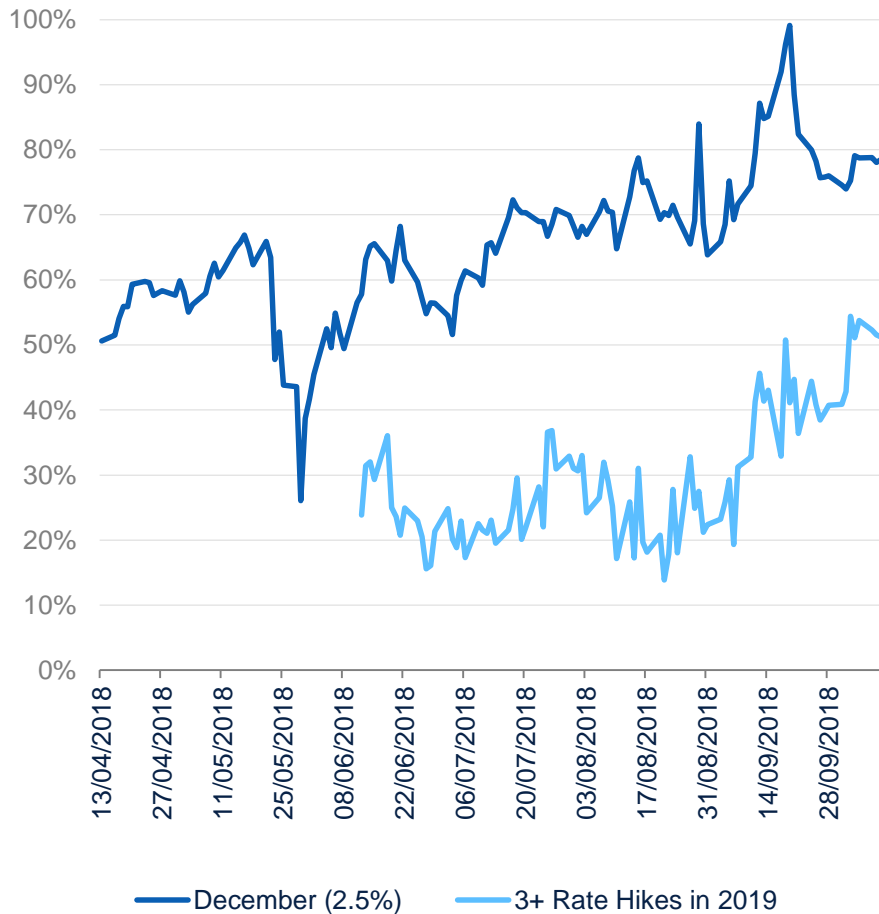


## Summary of Economic Projections- PCE

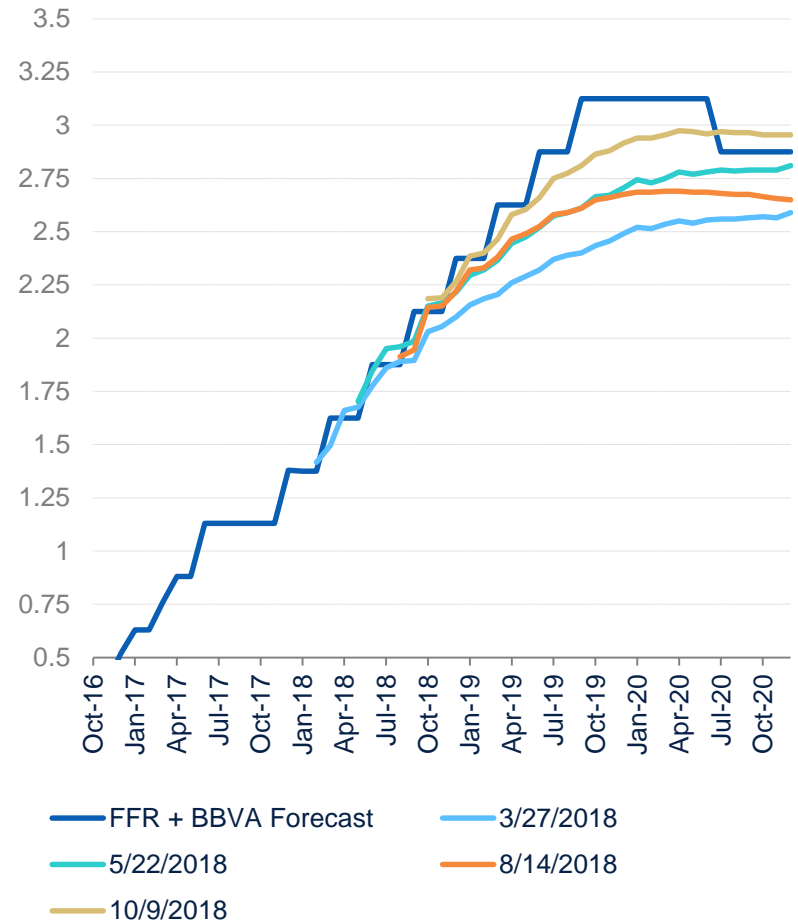


# Monetary policy: Markets expect 3+ rate increases in 2019; probability of additional increase in Dec at 80%

## Fed Funds Implied Probability (%)

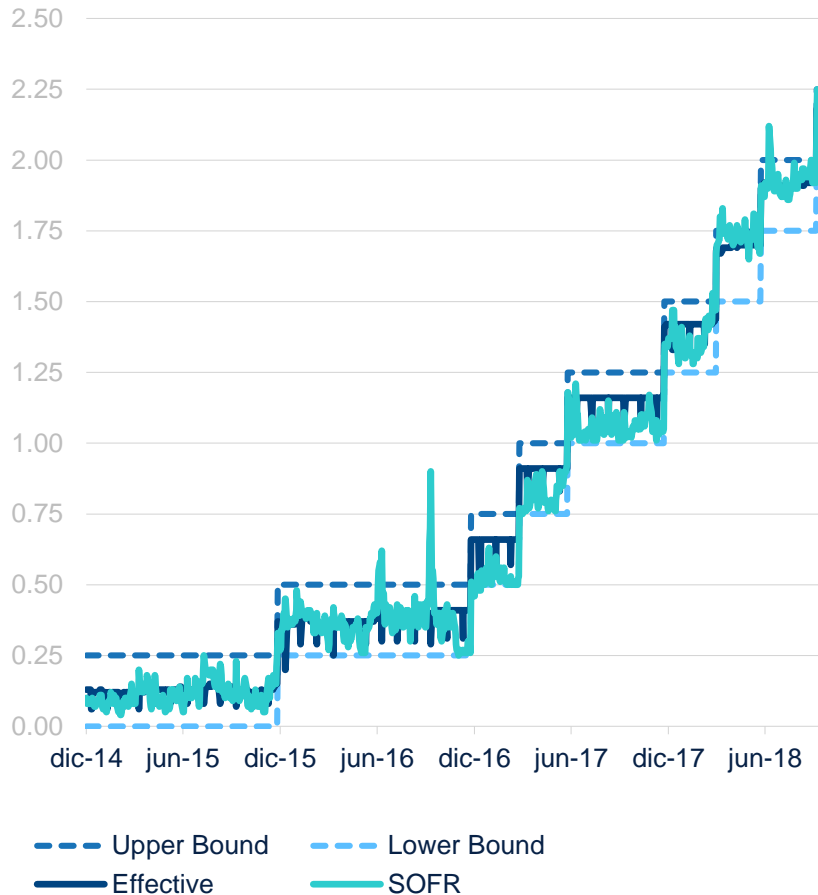


## Fed Funds Futures & BBVA Baseline (%)

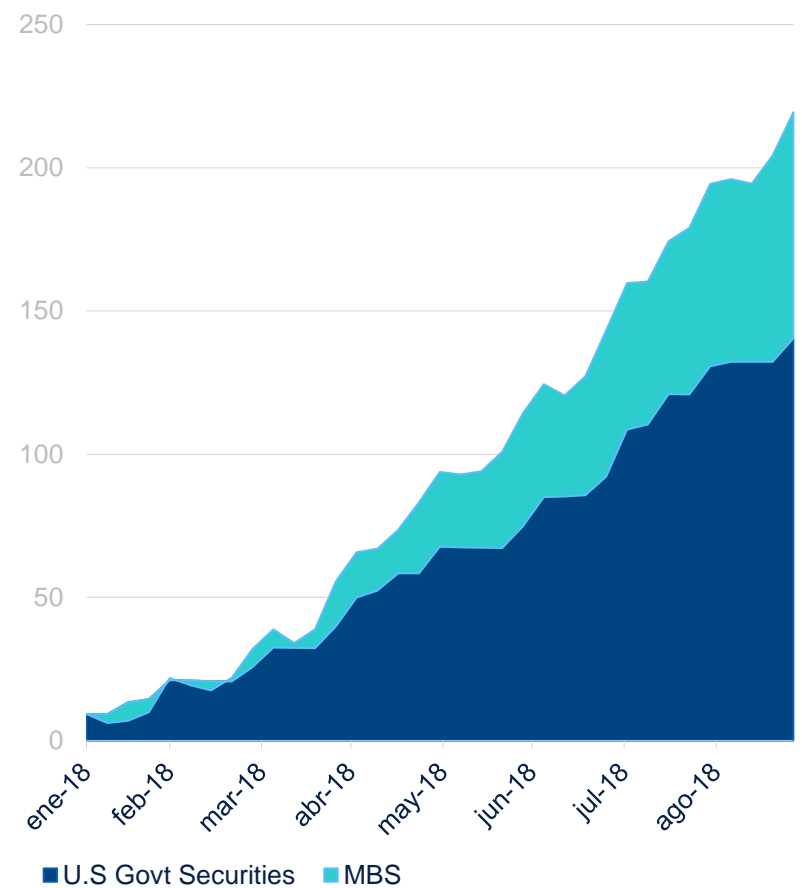


# Monetary Policy: Balance sheet attrition gaining momentum with over \$200B in run-off to date

## Fed Funds & Repo Rates (%)



## Balance Sheet Attrition (US\$bn, Cumulative)

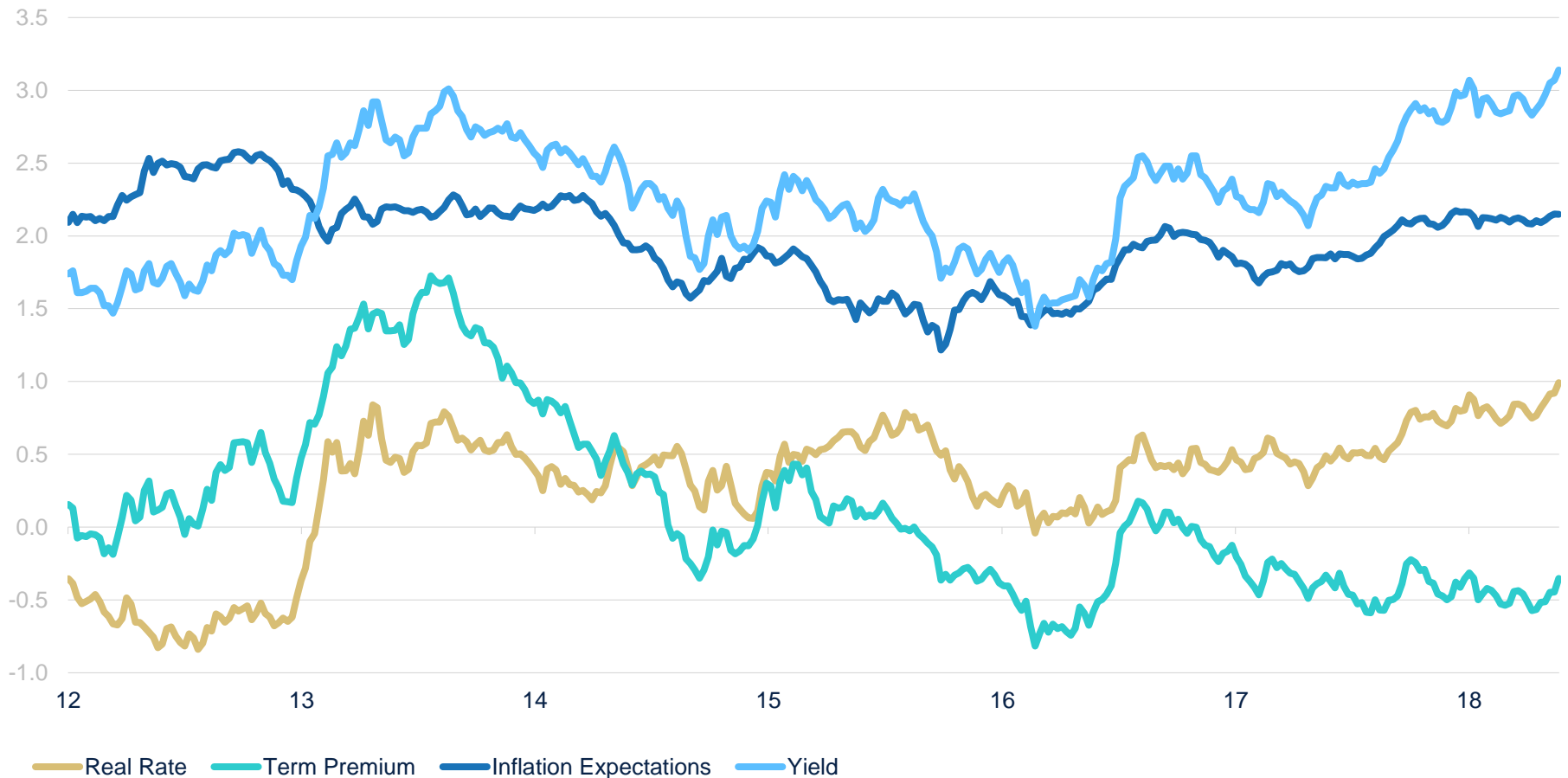


## Interest Rates

- Short end of the yield curve continues to edge upward in response to rising rate environment
- As expected, the 10-yr Treasury trended towards our year-end target of 3.1%, as markets incorporate a more hawkish outlook for the Fed and inflation expectations firm
- Increased political interference and increasing equity volatility could renew pressures on the term-premium
- Baseline assumes 10-year Treasury yield at 3.1% by year-end 2018 and 3.6% by year-end 2019
- Bias tilting slightly to the upside
- Term premium decompression has slowed the yield curve flattening

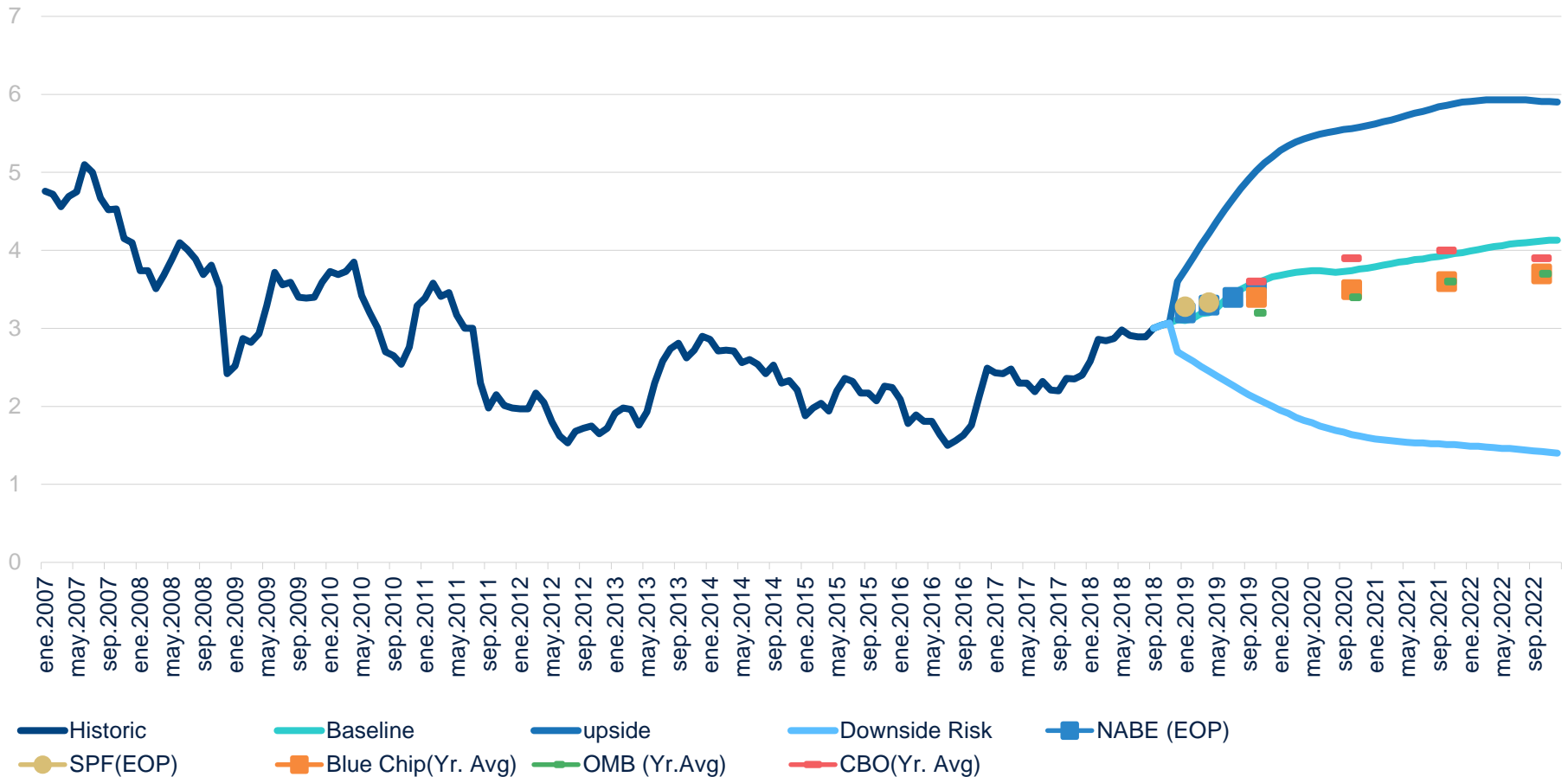
# Interest rates: Term premium decomposition and inflation expectations pushing 10-year Treasury above 3.0%

## 10-Year Treasury Yield Decomposition (%)



# Interest rates: Market uncertainty and volatility should contain any persistent pressures to the upside

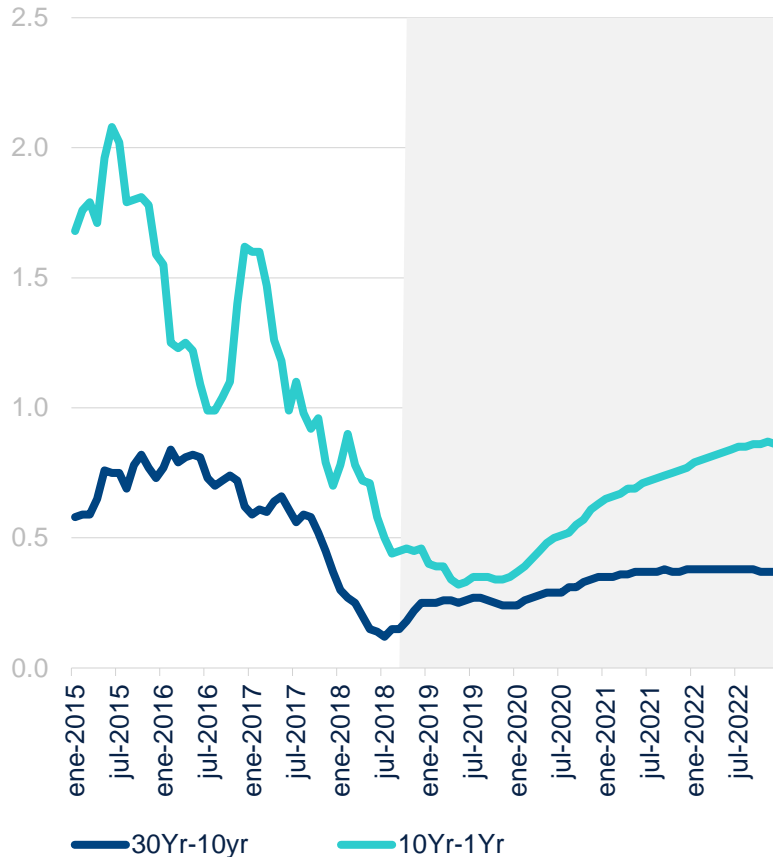
## 10-Year Treasury Yield (%)



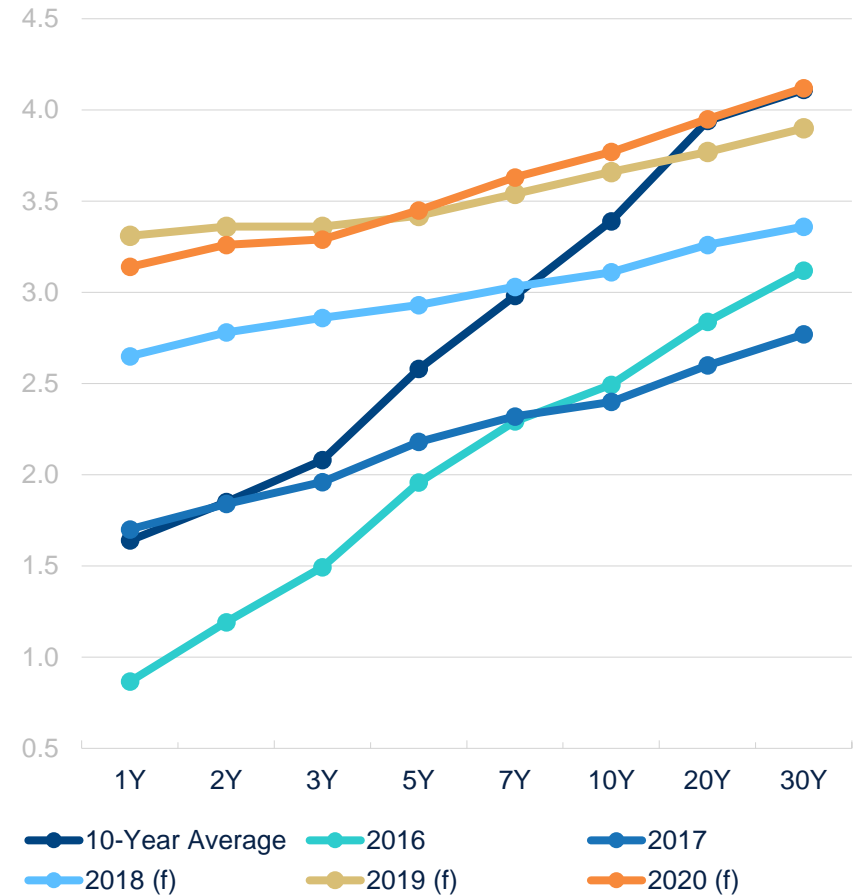
Source: BBVA Research, ACM & Haver Analytics

# Interest rates: Slope to continue to flatten, but will remain positive

## Yield Curve Slope (Bp)



## Yield Curve (% eop)



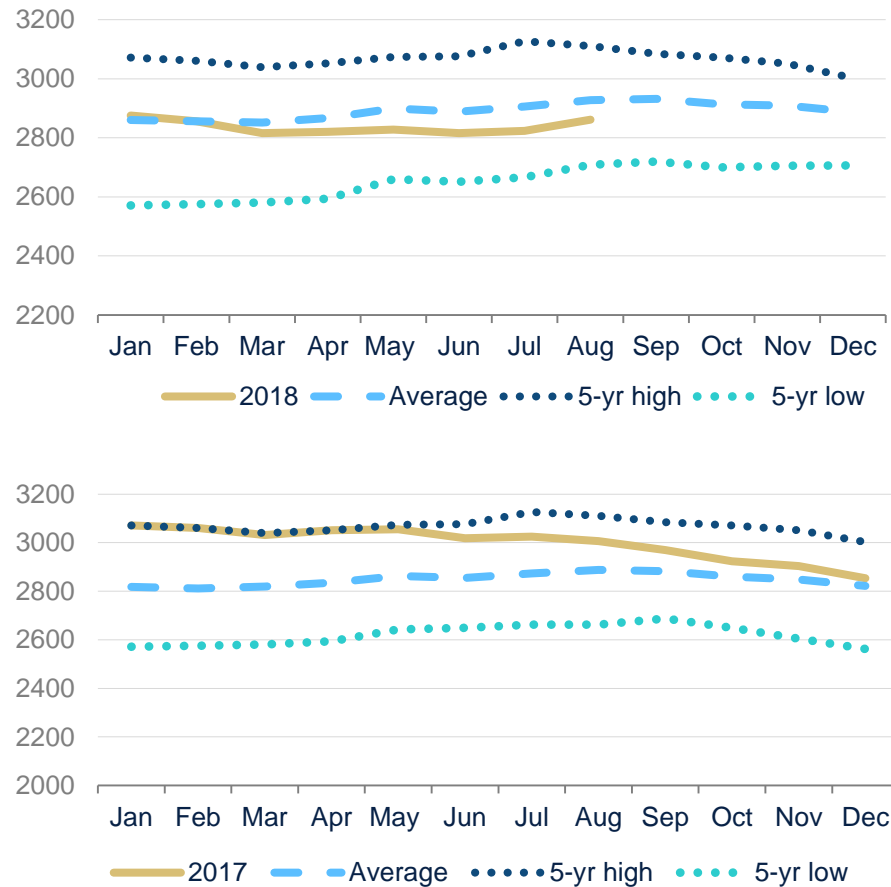


## Energy Prices

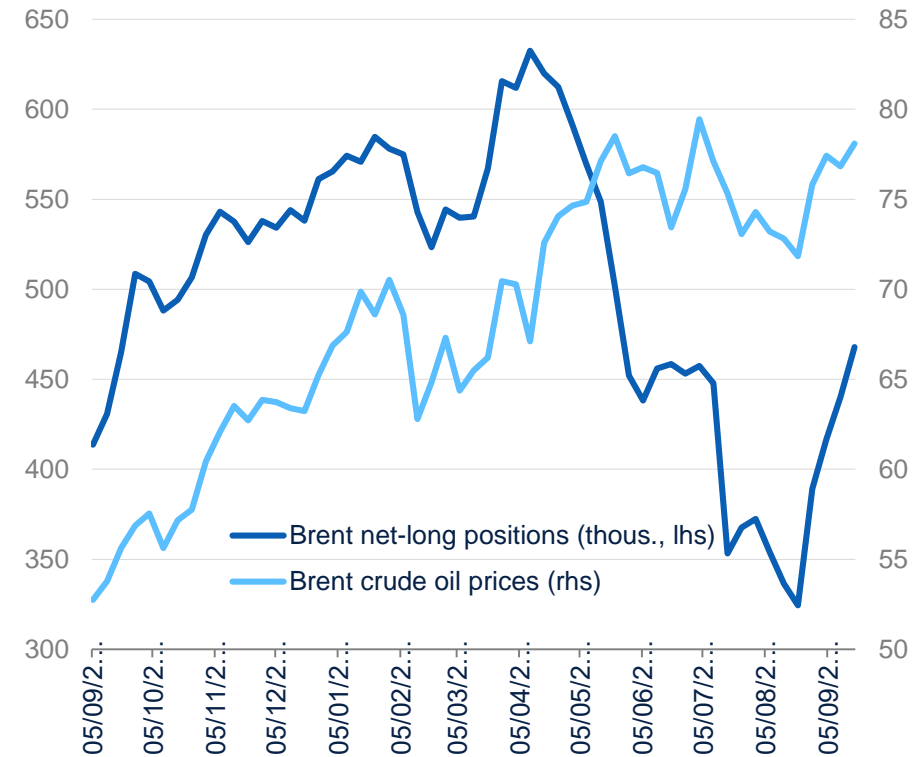
- U.S. sanctions to Iran, concerns on OPEC spare capacity and the potential impact of trade wars will weigh on oil prices through the rest of the year
- U.S. production remains strong, but transportation challenges have widened the gap between WTI and Brent
- Robust demand supported by China, India and the U.S.
- Markets and analysts expect the end of the “longer-for-longer” paradigm supported by solid demand and negative supply shocks
- Elevated uncertainty around long-term equilibrium: lagged effect of subpar global CAPEX, protectionism, alternative energy sources, EM convergence, EVs, climate change, efficiency and technology

# Although markets remain fairly balanced, the reinstatement of sanctions to Iran has triggered a bullish sentiment

## OECD Crude oil inventories (Million barrels)

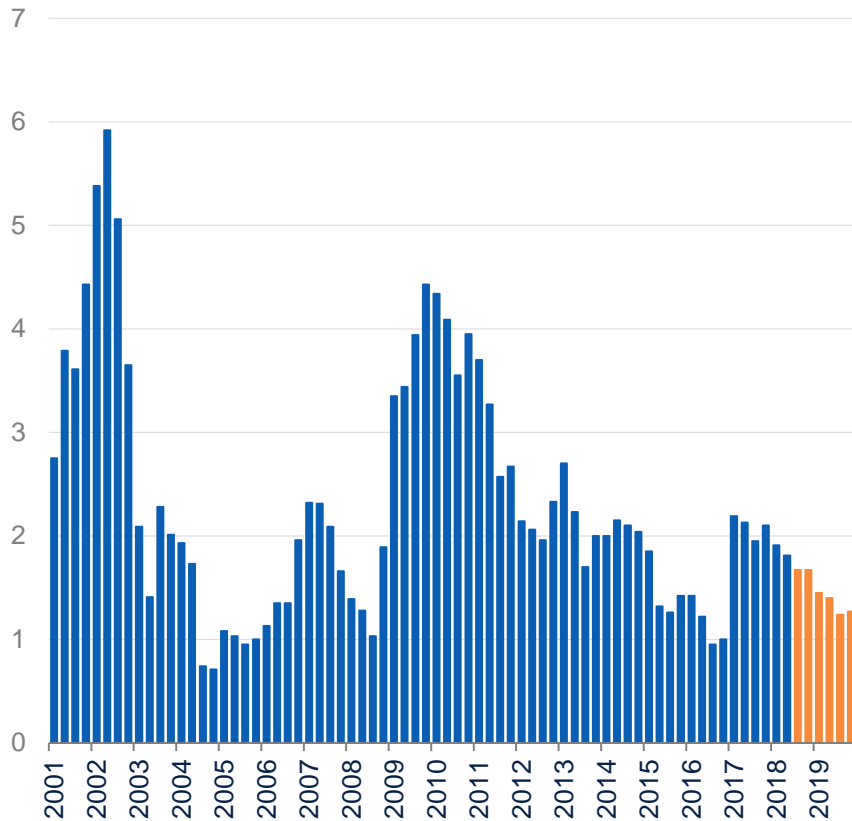


## Brent and Net long positions (\$ per barrel and thousands)

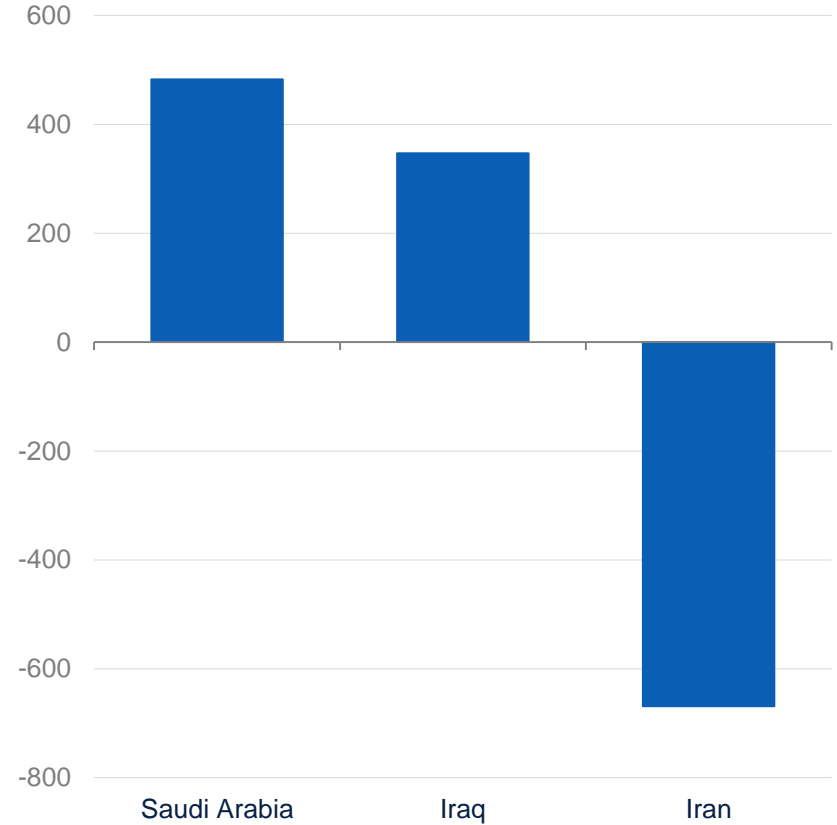


# The strong correction of Iranian exports leaves OPEC more vulnerable to future supply shocks

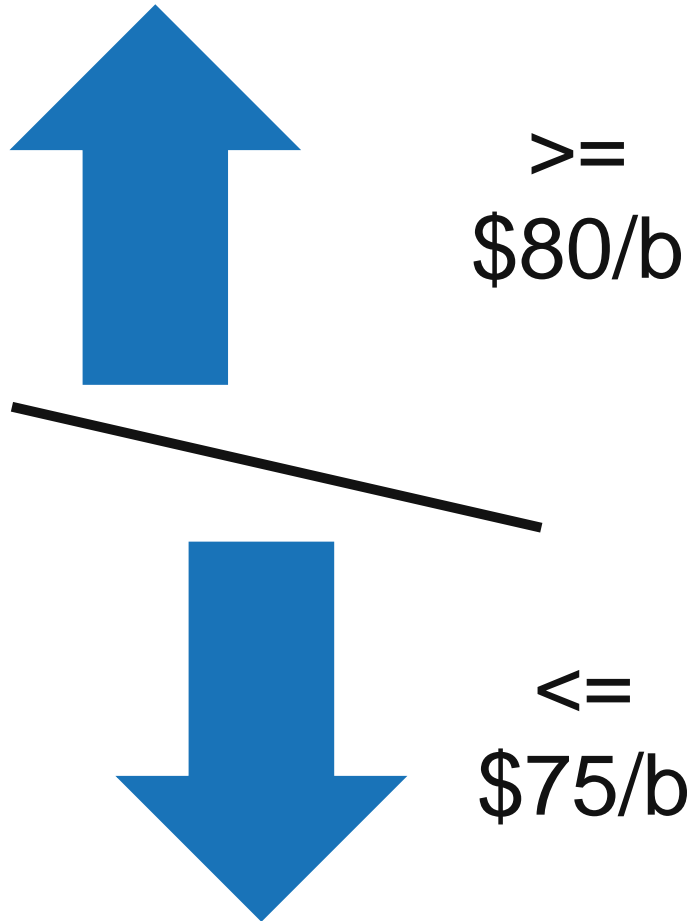
**OPEC spare production capacity**  
(Million barrels/day)



**Exports of crude oil**  
(Thousand barrels per day, change since April 2018)



## Short-term risks are tilted to the upside...

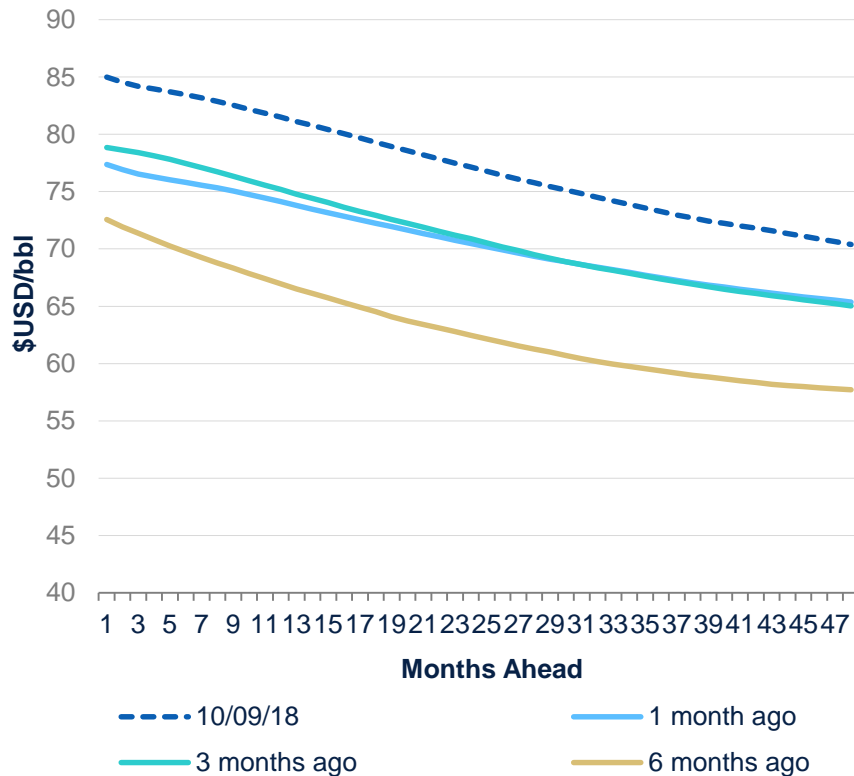


- OPEC+ is perceived incapable to offset the gap left by Iran and Venezuela
  - Additional negative supply shocks (e.g. Libya, Nigeria)
  - Stronger-than-expected global demand
  - Steeper “backwardation” that encourages speculative behavior
  - Takeaway issues prevent U.S. crude to reach global markets
- 
- Weaker global outlook after turbulence in emerging markets (e.g. Turkey, Argentina)
  - Escalation of protectionism
  - Dollar appreciation
  - Trump’s pressure on OPEC

# Analysts and futures market's expectations continue moving up due to rising uncertainty

## Brent Futures

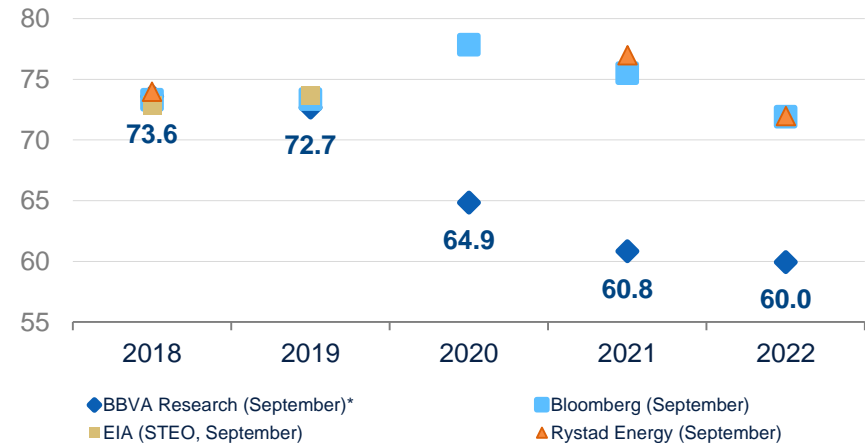
(\$ per barrel)



## Brent oil prices forecast

(Brent, \$/b)

	BBVA Research (Sep)*	BBVA Research (Jun)	Bloomberg (Sep)	EIA ESTEO (Sep)	Rystad Energy (Sep)
2017	54.2	54.2	54.2	54.2	54.2
2018	73.4	72.0	73.3	72.8	74.0
2019	72.7	70.2	73.4	73.7	80.8
2020	64.9	64.9	77.9		84.5
2021	60.8	60.8	75.5		77.0
2022	60.0	60.0	71.9		72.0



Source: BBVA Research and Bloomberg

\* Preliminary, non-official

Source: BBVA Research and Bloomberg

# Macroeconomic Outlook

	2011	2012	2013	2014	2015	2016	2017	2018 (f)	2019 (f)	2020 (f)	2021 (f)	2022 (f)
Real GDP (% SAAR)	1.6	2.2	1.8	2.5	2.9	1.6	2.2	2.8	2.8	2.5	2.3	2.1
Real GDP (Contribution, pp)												
PCE	1.3	1.0	1.0	2.0	2.5	1.9	1.8	1.9	1.8	1.5	1.4	1.4
Gross Investment	0.9	1.6	1.1	0.9	0.8	-0.2	0.8	0.8	1.0	1.0	1.0	0.8
Non Residential	1.0	1.2	0.5	0.9	0.3	0.1	0.7	1.1	1.1	0.9	0.8	0.7
Residential	0.0	0.3	0.3	0.1	0.3	0.2	0.1	0.0	0.1	0.2	0.1	0.1
Exports	0.9	0.5	0.5	0.6	0.1	0.0	0.4	0.6	0.6	0.7	0.7	0.7
Imports	-0.9	-0.5	-0.3	-0.9	-1.0	-0.3	-0.8	-0.7	-0.8	-0.9	-0.9	-0.9
Government	-0.7	-0.4	-0.5	-0.2	0.3	0.3	0.0	0.3	0.3	0.2	0.1	0.1
Unemployment Rate (% average)	8.9	8.1	7.4	6.2	5.3	4.9	4.4	3.9	3.7	4.0	4.3	4.3
Avg. Monthly Nonfarm Payroll (K)	174	179	192	250	226	195	182	208	185	161	122	107
CPI (YoY %)	3.1	2.1	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.6	2.4	2.3
Core CPI (YoY %)	1.7	2.1	1.8	1.7	1.8	2.2	1.8	2.1	2.2	2.3	2.3	2.3
Fiscal Balance (% GDP, FY)	-8.4	-6.8	-4.1	-2.8	-2.4	-3.2	-3.5	-4.4	-4.6	-4.5	-4.8	-5.2
Current Account (bop, % GDP)	-2.9	-2.6	-2.1	-2.1	-2.2	-2.3	-2.3	-2.3	-2.4	-2.4	-2.5	-2.5
Fed Target Rate (% eop)	0.25	0.25	0.25	0.25	0.50	0.75	1.50	2.50	3.25	3.00	3.00	3.00
Core Logic National HPI (YoY %)	-2.9	4.0	9.7	6.8	5.3	5.5	5.9	6.0	5.3	5.4	5.6	5.7
10-Yr Treasury (% Yield, eop)	1.98	1.72	2.90	2.21	2.24	2.49	2.40	3.11	3.66	3.77	3.97	4.13
Brent Oil Prices (dpb, average)	111.3	111.7	108.7	99.0	52.4	43.6	54.3	73.9	72.7	64.9	60.9	60.0

# Economic Scenarios

	Probability (%)	Current	Previous
Upside		10	10
Baseline		70	75
Downside		20	15

## Macro Scenarios

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>GDP</b>	1.8	2.5	2.9	1.6	2.2	2.8	2.8	2.5	2.3	2.1
<b>Upside</b>	1.8	2.5	2.9	1.6	2.2	3.0	4.0	3.4	3.1	2.9
<b>Downside</b>	1.8	2.5	2.9	1.6	2.2	2.2	-1.5	0.1	1.2	1.8
<b>UR</b>	7.4	6.2	5.3	4.9	4.4	3.9	3.7	4.0	4.3	4.3
<b>Upside</b>	7.4	6.2	5.3	4.9	4.4	3.9	3.2	2.9	3.0	3.0
<b>Downside</b>	7.4	6.2	5.3	4.9	4.4	4.0	4.6	6.6	7.0	5.7
<b>CPI</b>	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.6	2.4	2.3
<b>Upside</b>	1.5	1.6	0.1	1.3	2.1	2.6	3.4	3.5	3.7	3.7
<b>Downside</b>	1.5	1.6	0.1	1.3	2.1	2.4	1.3	1.0	0.7	0.6
<b>Fed [eop]</b>	0.25	0.25	0.50	0.75	1.50	2.50	3.25	3.00	3.00	3.00
<b>Upside</b>	0.25	0.25	0.5	0.75	1.5	3	5	5.5	5.5	5.5
<b>Downside</b>	0.25	0.25	0.5	0.75	1.5	1.25	0.25	0.25	0.25	0.25
<b>10-Yr [eop]</b>	2.9	2.21	2.24	2.49	2.4	3.1	3.66	3.77	3.97	4.13
<b>Upside</b>	2.9	2.21	2.24	2.49	2.4	3.6	5.2	5.6	5.9	5.9
<b>Downside</b>	2.9	2.21	2.24	2.49	2.4	2.7	2	1.6	1.5	1.4

## DISCLAIMER

This document was prepared by Banco Bilbao Vizcaya Argentaria's (BBVA) BBVA Research U.S. on behalf of itself and its affiliated companies (each BBVA Group Company) for distribution in the United States and the rest of the world and is provided for information purposes only. Within the US, BBVA operates primarily through its subsidiary Compass Bank.

The information, opinions, estimates and forecasts contained herein refer to the specific date and are subject to changes without notice due to market fluctuations. The information, opinions, estimates and forecasts contained in this document have been gathered or obtained from public sources, believed to be correct by the Company concerning their accuracy, completeness, and/or correctness. This document is not an offer to sell or a solicitation to acquire or dispose of an interest in securities.



The logo for BBVA Research, featuring the text "BBVA" in a bold, white, sans-serif font, followed by "Research" in a smaller, lighter weight sans-serif font. A small teal square is positioned to the right of the word "Research".

BBVA Research

# U.S. Economic Outlook

October 2018

Creating Opportunities