

## U.S. Oil Prices Outlook

December 2019

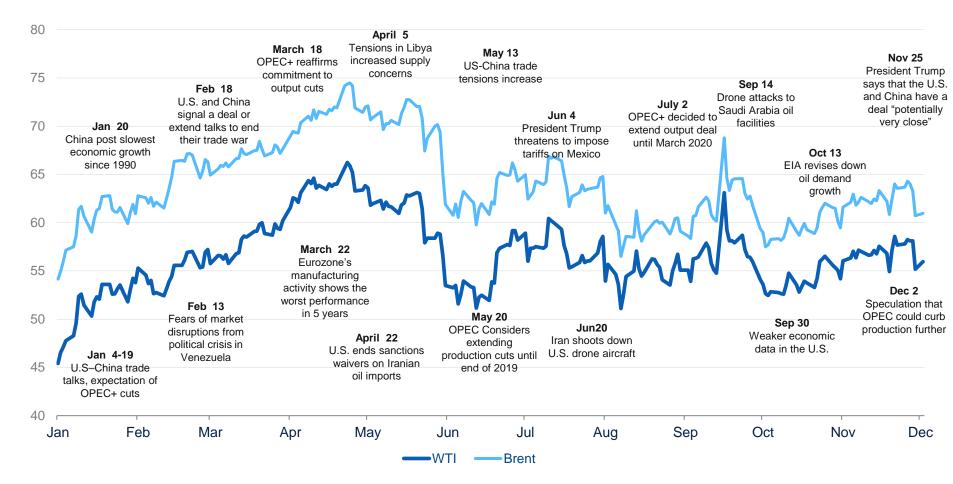
**Creating Opportunities** 

### Summary

- 2019 oil prices were in line with our baseline scenario
- OPEC is discussing whether to extend its production quota
- U.S oil production will expand further, albeit at a slower pace
- Our prospects for oil prices in 2020 assume weak demand growth in a wellsupplied market
- Currently, tensions in the Middle East and protectionism are the main sources of uncertainty
- Long-term equilibrium prices around \$60/b
- Elevated uncertainty around long-term equilibrium: CAPEX, protectionism, transportation infrastructure, alternative energy sources, EM convergence, EVs, climate change, efficiency and technology

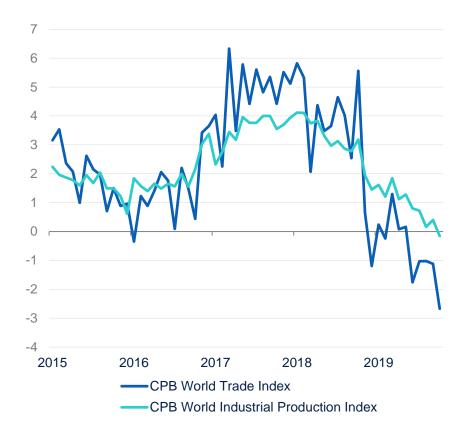
## Brent prices are likely to close the year between \$60/b and \$65/b

#### CRUDE OIL PRICES 2019 (\$ PER BARREL)

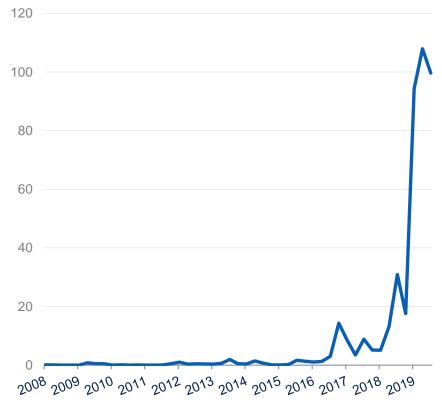


# Trade uncertainty remains high, although it has receded slightly

### WORLD TRADE AND INDUSTRIAL PRODUCTION (YOY % CHANGE)

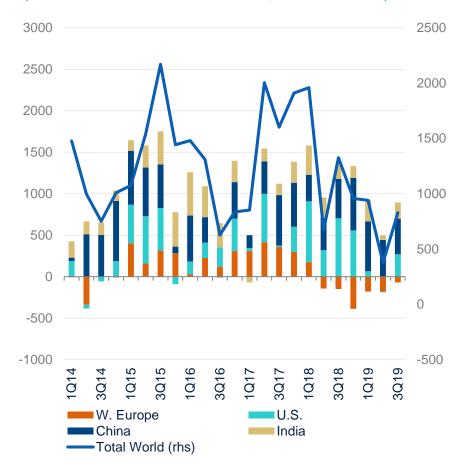


#### WORLD TRADE UNCERTAINTY (GDP WEIGHTED AVERAGE INDEX)



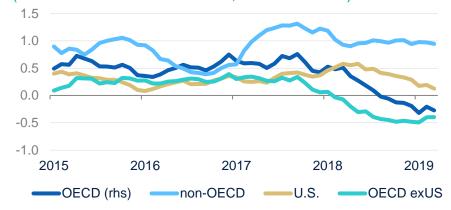
## Demand is the weakest in the OECD

#### OIL PRODUCT DEMAND: TOTAL WORLD (THOUSAND BARRELS PER DAY, YOY CHANGE)



Source BBVA Research with data from Haver Analytics, Bloomberg and WEO

#### **OIL PRODUCT DEMAND** (MILLION BARRELS PER DAY, YOY CHANGE)



#### OIL PRODUCT DEMAND (MILLION BARRELS PER DAY, YOY CHANGE)



## Slower refining activity and low margins put downward pressure on demand for crude oil

#### **PRICES** (\$ PER BARREL) 12 87% 90 85 86% 10 80 85% 8 84% 75 6 83% 70 82% 65 81% 60 80% 55 -2 79% 50 Jan-18 Nov-18 Mar-18 May-18 Sep-18 Jan-19 Mar-19 May-19 Nov-19 Jul-18 Jul-19 Sep-19 78% Mar-16 Dec-18 Mar-19 Jun-19 Sep-19 Jun-16 Sep-16 Dec-16 Mar-18 Jun-18 Sep-18 Jun-17 Dec-17 Mar-17 Sep-17 Brent (left axis) Non-OECD OECD-34 Singapore Complex Refining Margins (right axis)

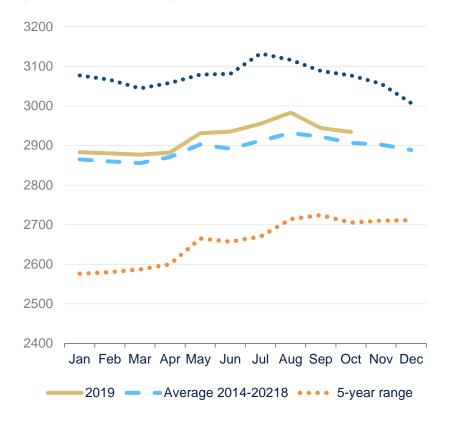
#### CRUDE OIL REFINERY RUNS (UTILIZATION RATES %, 4Q-MOVING AVERAGE)

Source: BBVA Research and Haver Analytics

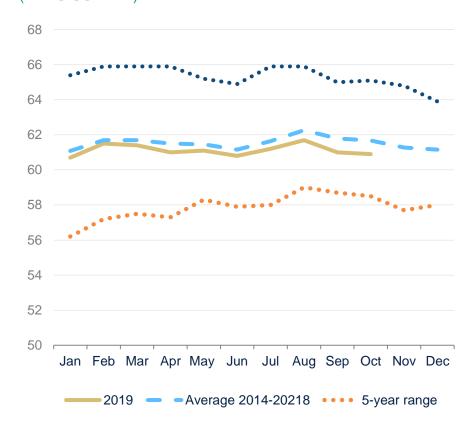
**ASIA REFINING MARGINS & BRENT OIL** 

### Inventories trending close to 5-year averages

#### OECD OIL INVENTORIES AT MONTH'S END (MILLION BARRELS)



#### OECD OIL INVENTORIES AT MONTH'S END (DAYS SUPPLY)



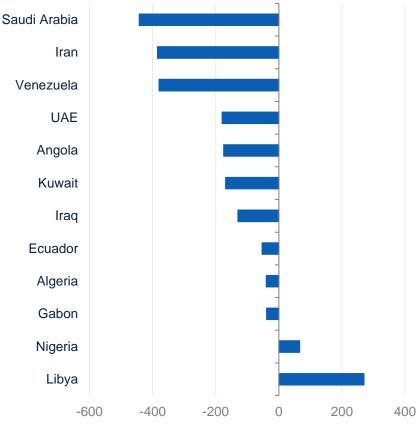
## **OPEC: compliance with output quotas and sanctions to Iran and Venezuela limit supply**

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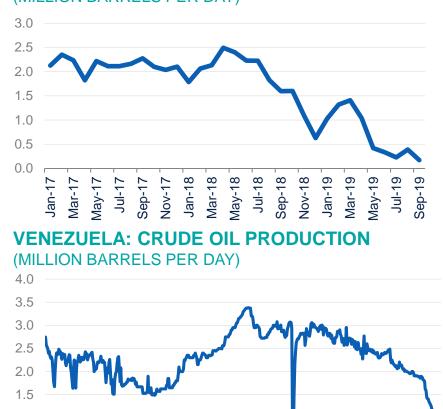
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#### **OPEC CRUDE OIL PRODUCTION** (CHANGE BETWEEN DEC-2018 AND OCTOBER -2019, THOUSAND BARRELS PER DAY)

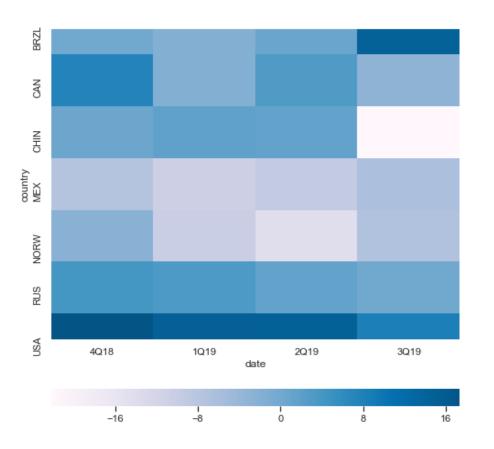


#### **IRAN: EXPORTS OF CRUDE OIL** (MILLION BARRELS PER DAY)



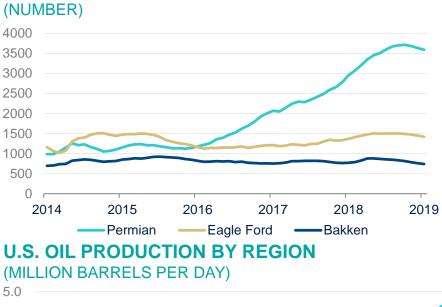
### Non-OPEC offshore production accelerated in Brazil, Mexico and Norway

#### CRUDE OIL PRODUCTION (HEAT-MAP, YOY % CHANGE )

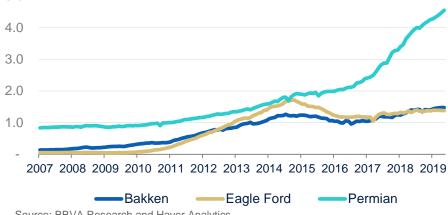


- Mexico: Higher drilling rates and prioritization of fields may help to stabilize and potentially reverse declining production
- Brazil: Output was significantly boosted by new production in the Santos Basin
- Norway: The commissioning of the Johan Sverdrup field should lead to positive yearover-year growth rates for the first time since 2017

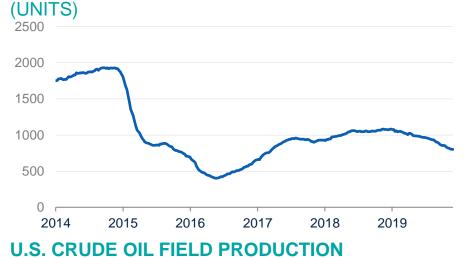
# U.S.: Incoming data suggests golden age of shale not over yet...

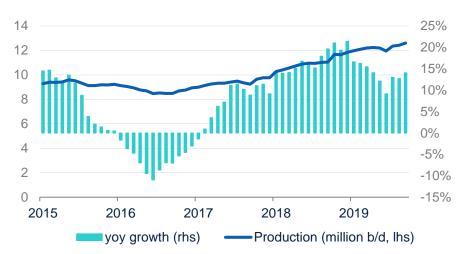


**U.S. DRILLED BUT UNCOMPLETED WELLS** 



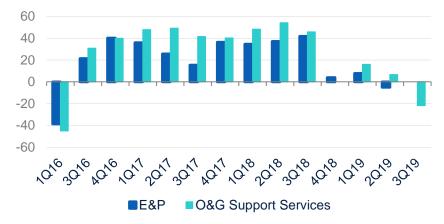
### **U.S. ACTIVE RIG COUNT**





Source: BBVA Research and Haver Analytics

### U.S.: Businesses activity seems to be cooling down



#### LEVEL OF BUSINESS ACTIVITY INDEX

#### **COMPANY OUTLOOK INDEX**



■E&P ■O&G Support Services

#### **CAPITAL EXPENDITURES INDEX**



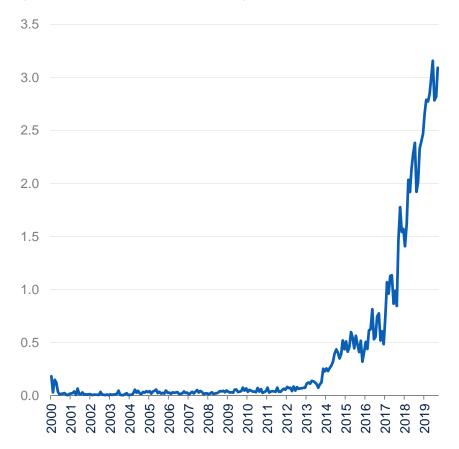
#### **UNCERTAINTY INDEX**



\*Current Index = % Reporting Increase - % Reporting Decrease Source: Dallas Fed Energy Survey , 3Q19

## **U.S. import substitution continues**

#### U.S. EXPORTS OF CRUDE OIL (MILLION BARRELS PER DAY)



#### U.S. PRODUCTION AND NET IMPORTS OF CRUDE OIL (MILLION BARRELS PER DAY)

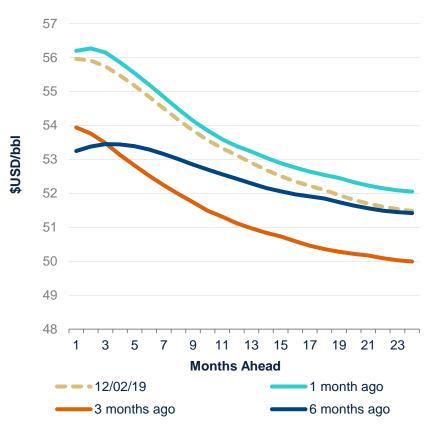


## U.S.: New transportation infrastructure has narrowed the gap between Brent and WTI

## **BRENT-WTI DIFFERENTIAL** (\$ PER BARREL)

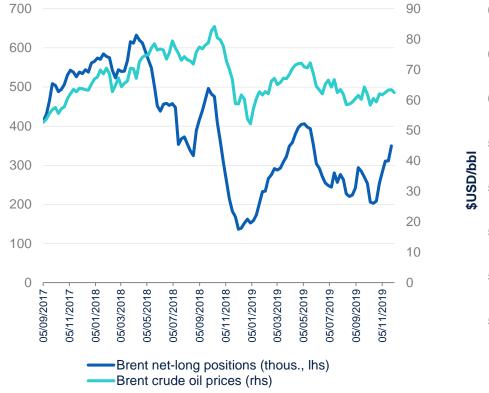


#### WTI FUTURES (\$ PER BARREL)

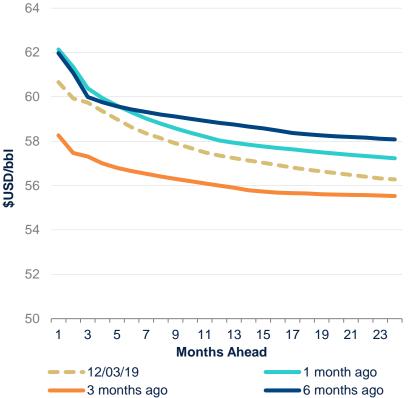


### Net long positions recovered after better trade news

#### **NET LONG POSITIONS** (CONTRACTS AND \$ PER BARREL)



## BRENT FUTURES (\$ PER BARREL)



## Weak demand growth in a well supplied market remains the main driver of our baseline scenario

#### BRENT PRICES FORECAST (\$ PER BARREL)

#### Bloomberg EIA **BBVA Research** Survey **STEO** (baseline) (Nov 29) (Nov 13) 2017 54.2 54.2 54.2 2018 71.1 71.1 71.1 2019 64.1 63.7 63.6 2020 56.9 62.0 60.1 2021 60.8 64.0 2022 60.0 63.7 2023 64.8 59.7 80 75 70 65 $\diamond$ 60 64.1 60.8 60 59.7 55 56.9 50 45 40 2019 2020 2021 2022 2023

◆BBVA Research ■Bloomberg Survey (Nov 29) ◆EIA STEO (Nov 13)

#### WTI PRICES FORECAST (\$ PER BARREL)

	BBVA Research (baseline)	Bloombe Survey (Nov 29)	ν ΕΙΑ
2017	50.9	50.9	50.9
2018	65.0	65.0	65.0
2019	58.0	57.5	56.4
2020	52.9	57.9	54.6
2021	58.0	60.0	
2022	57.7	59.2	
2023	57.4	59.9	
80			
75			
70			
65	}		
60 <b>65</b> .	0	_	
55	58	58	<b>57.7 57.4</b>
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40			1 1
201	8 2019	2020 202	21 2022 2023

◆BBVA Research ■Bloomberg Survey (Nov 29) ■EIA STEO (Nov 13)



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