

# Oil Price Outlook

**BBVA Research USA** 

**Houston, TX** 

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**Bottom line: April-May 2016** 

### As expected

- U.S. production continues to adjust
- Further bankruptcies and declining investment
- Oversupply conditions remain

### **Major surprises**

- Supply disruptions in Nigeria, Lybia and Canada
- Dollar weakness despite solid US performance and aggressive ECB accommodative actions
- Saudi Arabia's new oil minister confirmed current strategy of maintaining market share

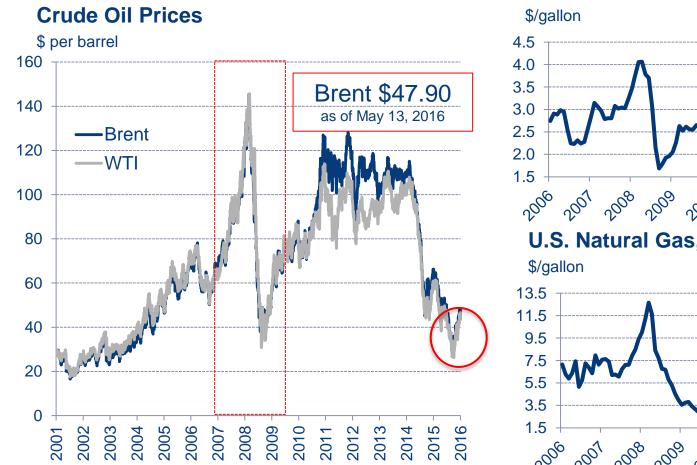
### Moderate upward bias in the short-term, but caution going forward

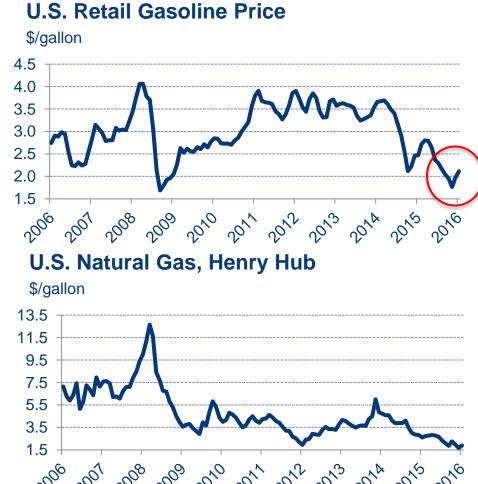
- Oversupply persists, estimated between 1.5 and 1.9 million bbl/d
- Crude oil inventories still at record levels
- Low probability of an output deal during next OPEC meeting (June), limited impact
- Short-run risks persist such as financial volatility and negative surprises to the global outlook
- A long-lasting rebound could halt further adjustments in U.S. production



# Oil prices in 2016

After hitting a bottom in February, oil and gasoline prices are on the rise





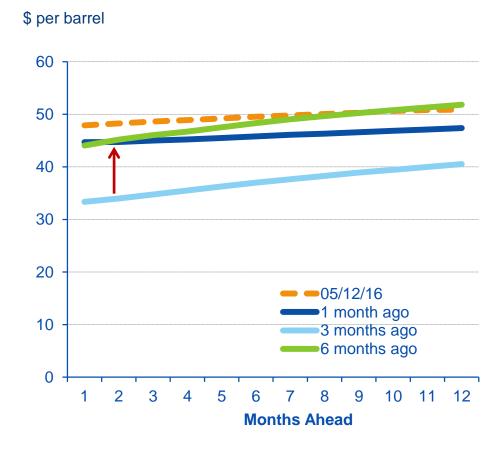


## **Futures**

Markets have begun to reassess expectations to the upside, but the forward curve has also flattened

### **WTI Crude Futures** \$ per barrel 60 50 40 30 20 05/12/16 ●1 month ago 10 3 months ago 6 months ago 0 2 3 10 11 12 **Months Ahead**

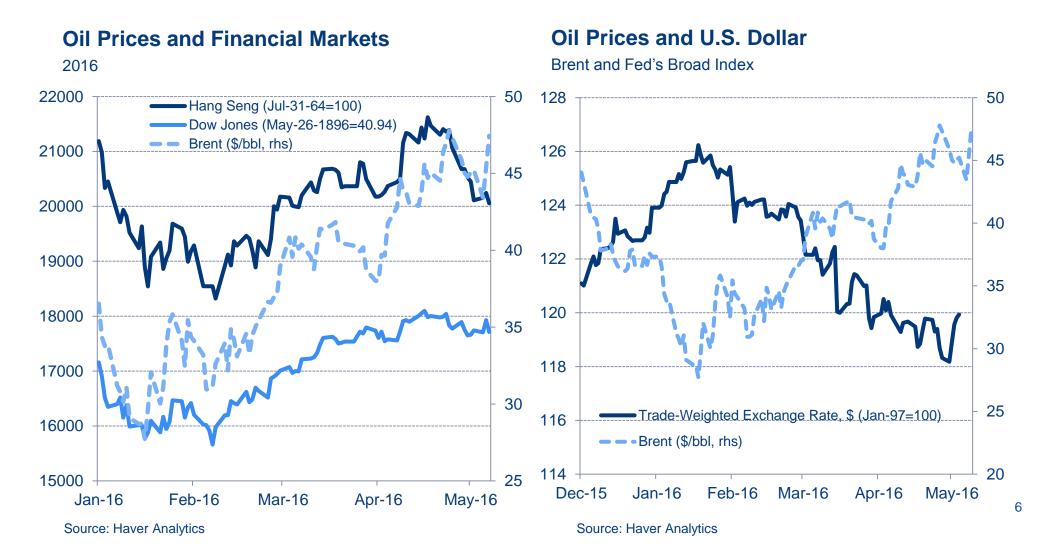
#### **Brent Crude Futures**





## Financial markets

Dollar depreciation and improving financial markets supported the upturn

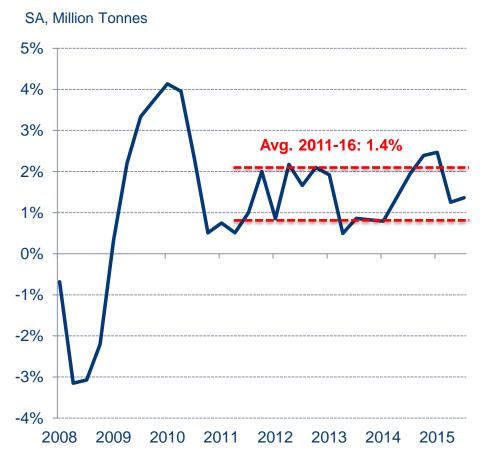




### Demand

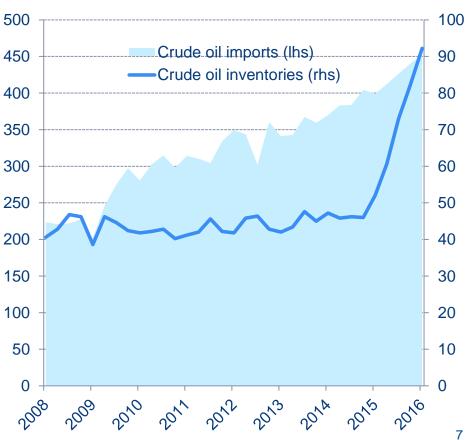
Demand remains solid, with Chinese imports and inventories reaching record highs

#### **Global Crude Oil Demand**



#### **China: Crude Oil Imports and Inventories**

(NSA, Million Tonnes & EOP Million barrels)



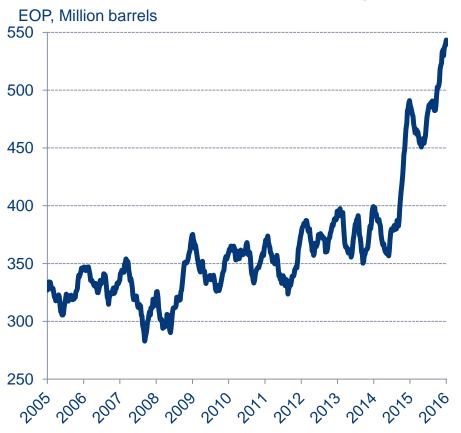
Source: Haver Analytics



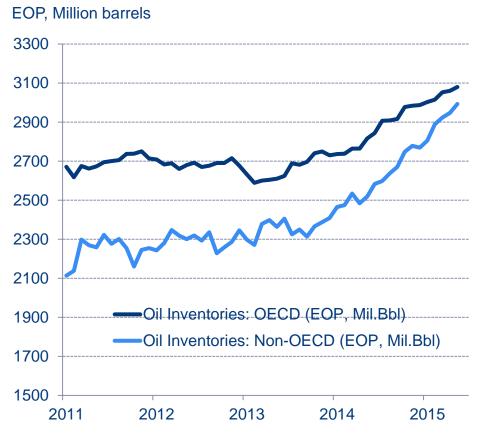
## Inventories

Inventories have not shown signs of correction and remain at record highs

#### **U.S. Stocks of Crude Oil Excluding SPR**



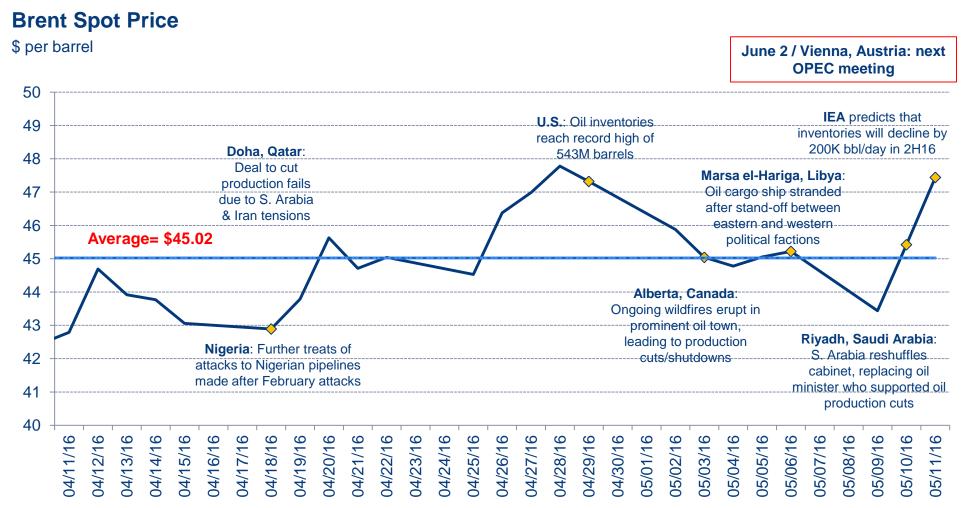
#### **Global Oil Inventories**





# Short-term volatility

In addition, unplanned disruptions to production and other events have added to price fluctuations





## Short-term volatility

The price impact of events in Libya, Canada and Nigeria is likely to be short-lived

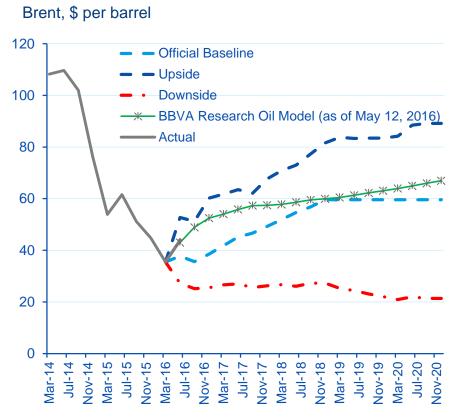
Event	Description	Bias
Wildfires in Canada	The fires affected about 1.07 million bbl/day of Alberta's oil sands capacity. Operations in some areas are still on hold	Î
S. Arabia's Oil Minister Replacement	Confirmation of intent to keep production level high, currently at 10.2 million bbl/day, and maintain market share	<b>↓</b>
Pipeline attacks in Nigeria	Pipeline attacks and violence have risen in response to political turmoil. Production is at levels not seen since 2009	Î
Increase in <b>U.S.</b> Oil Inventories	At 543.4M bbl, crude inventories reach historically high levels again	<b>↓</b>
Civil Unrest in Libya	Political conflict preventing loading of Libyan oil cargos and leading to output cuts. Current production at just over 200K bbl/day	Î
Next <b>OPEC</b> Meeting	No proposals to cut production on the table for next OPEC meeting (June 2)	



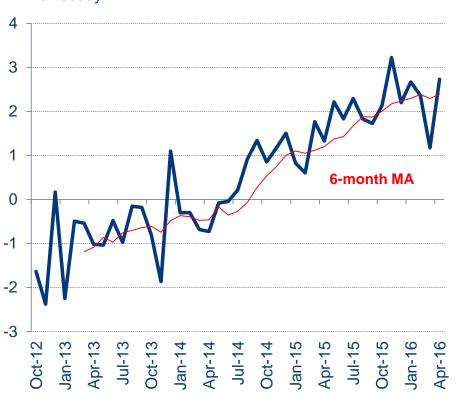
# What's next for oil prices?

Oil prices have been moving closer to our upside scenario. Our model shows an upward bias for the short-run, but no significant bias for the long-run

#### **Crude Oil Price Forecasts\***



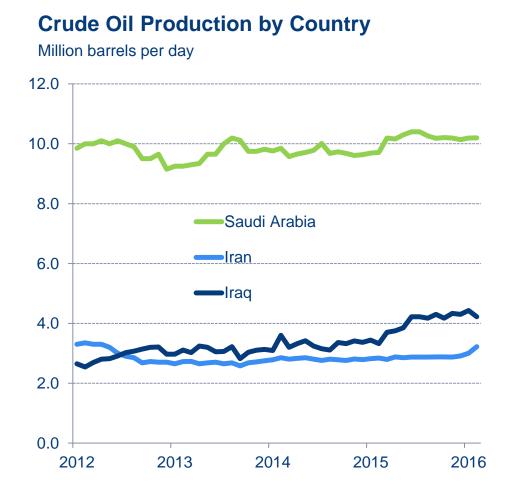
### Stock Change Needed to Balance the Market Barrel/day





## Global production

### OPEC production cushions the effect of non-OPEC declines



### **Supply of Crude Oil**



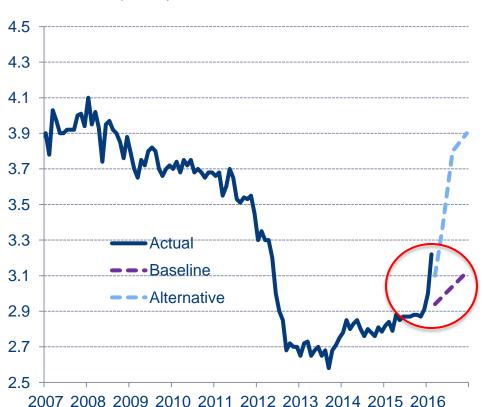


# OPEC fails to cut production

Rising production and exports from Iran remain a downside for prices

#### **Iran: Crude Oil Production**

Million barrels per day



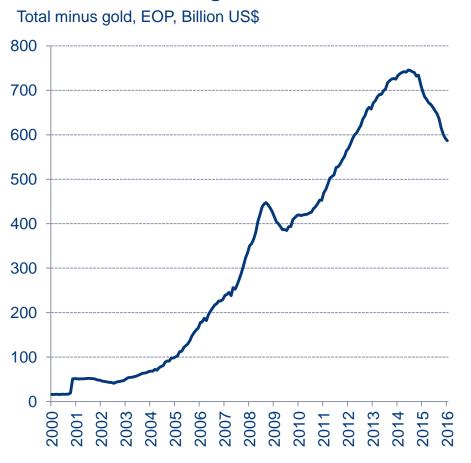
- After failure of Doha meeting, Iran/Saudi Arabia rivalry could hinder potential deal in June OPEC meeting
- Tehran has said that it would not engage into any production deal unless sales have reached presanction levels (between 3.6 and 3.8 million bbl/day)
- It is expected that Iran will increase crude exports to 2 million bbl/d this month, a similar level as before sanctions (2011)



# OPEC fails to cut production

Despite mounting pressures on public finances, Saudi Arabia's best option is still not to cut production

#### Saudi Arabia: Foreign Reserves



- The newly appointed petroleum minister, Khalid al-Falih, has confirmed the strategy to continue producing until high-cost producers are out of the market
- In the meantime, the Kingdom has announced a strategy to reduce its dependence on oil by selling a small fraction of Saudi Aramco, creating a Sovereign-Wealth Fund to invest in different assets, and boosting strategic non-oil industries (mining, military hardware).
- In the near future, Saudi Arabia may spend less time and effort dealing with OPEC and more on internal reforms.

Source: IMF and Haver Analytics



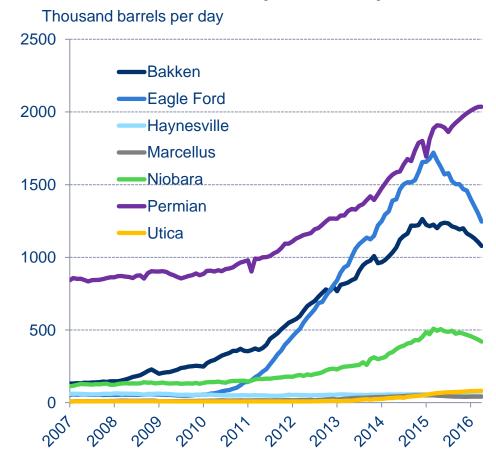
# Declining U.S. production

U.S. production continues to decline in line with expectations. The adjustment differs significantly across regions

#### **U.S. Crude Oil Production**

### Million barrels per day 12 Texas North Dakota 10 U.S. Total 8 6 2

#### **Total Oil Production by Shale Play**





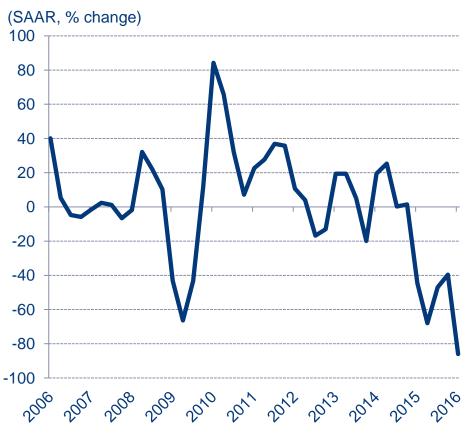
# Declining U.S. production

Adjustments to production will continue to be reinforced by bankruptcies and lack of investments in the industry

## **Cumulative North American E&P Bankruptcy Filings**



### U.S. Real Private Fixed Investment: Mining Exploration/Shafts/Wells

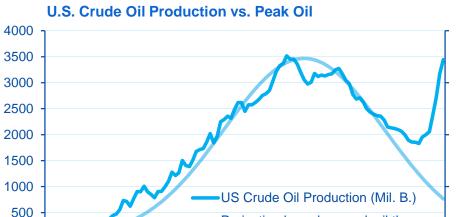


Source: Haynes and Boone

Source: Haver Analytics

### RESEARCH Alternative scenarios

**Geological:** shale revolution challenges models incorporating "peak oil" assumptions

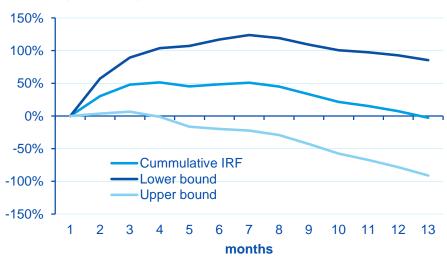


Projection based on peak oil theory

Financial: A 20% dollar depreciation would bring prices up to \$60/bbl in a short period of time

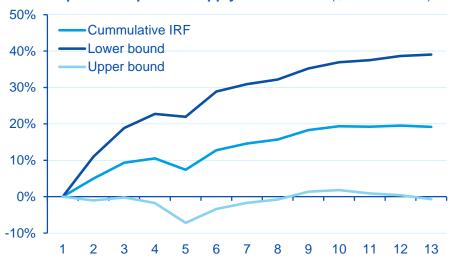
1901 1911 1921 1931 1941 1951 1961 1971 1981 1991 2001 2011

Impulse-Response: USD to Oil Prices (\$40/bbl @ t=0)



**Geopolitics:** a supply reversion to pre-2014 levels would lift prices to \$50/bbl by 1Q17

Impulse-Response: Supply to Oil Prices (\$40/bbl @ t=0)



Global recession: A sharp drop in demand would send prices back to \$30's/bbl for a prolonged period

Impulse-Response: Demand to Oil Prices (\$40/bbl @ t=0)





# Forecasts

#### **Crude Oil Price Forecasts**

Brent, \$/barrel, EOP

	Baseline	Upside	Downside	Market Consensus
2015	44.7	44.7	44.7	44.7
2016	38.5	60.2	25.5	41.0
2017	49.3	67.6	26.2	55.0
2018	59.6	81.6	27.3	62.0
2019	59.6	83.5	22.0	65.0
2020	59.6	89.1	21.3	n.a.



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