



# Oil Industry: On the Verge of New Risks or New Opportunities?

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St. Petersburg International Economic Forum, May 25th, 2018

## **Key Topics**

- Future of hydrocarbons sustainable growth of crude oil demand?
- New regulatory challenges
- Crude oil market: forward view
  - Fundamental drivers of oil price growth
  - Iran and Venezuela or OPEC production decline?
  - Role and agenda for "The Big Three"
- Rosneft-2022 Strategy foundation of global energy security

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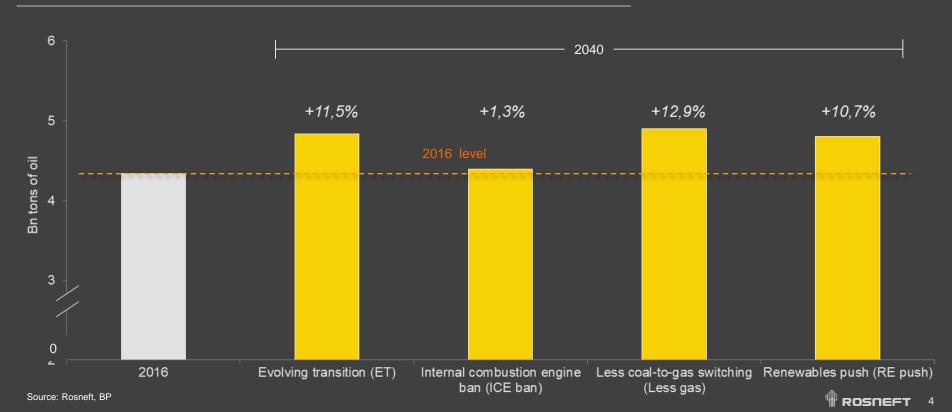
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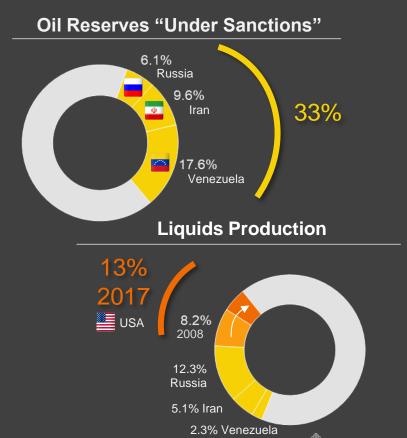
## **Crude Oil Demand**

### Crude Oil Demand Forecast (Scenarios)



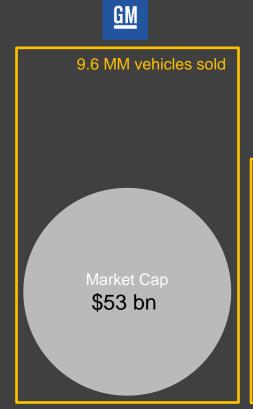
# One Third of Global Oil Supply is Under Sanctions



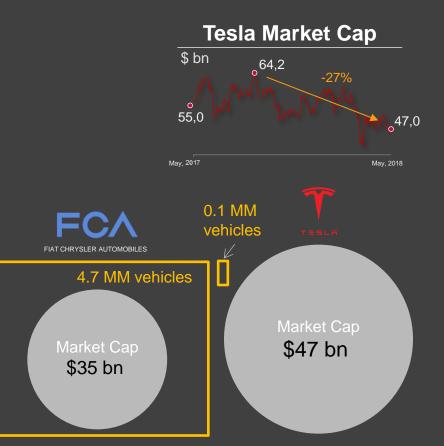


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## Perceived and Real Threats to Oil Demand





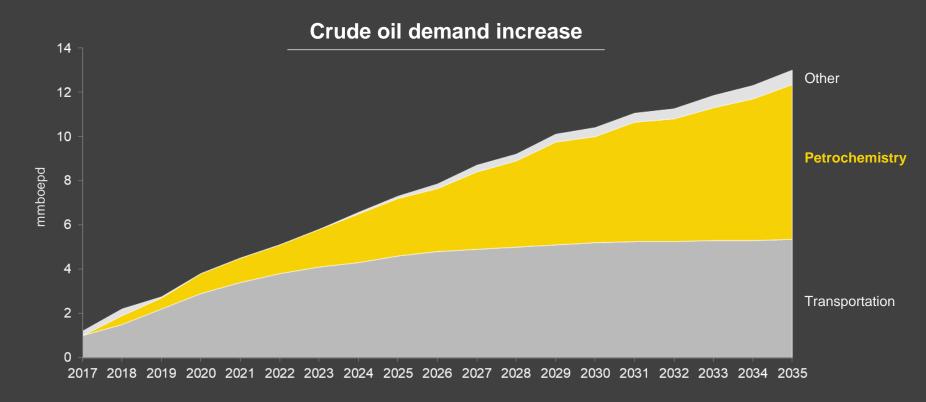


## Iran and Venezuela vs. OPEC Production Decline?

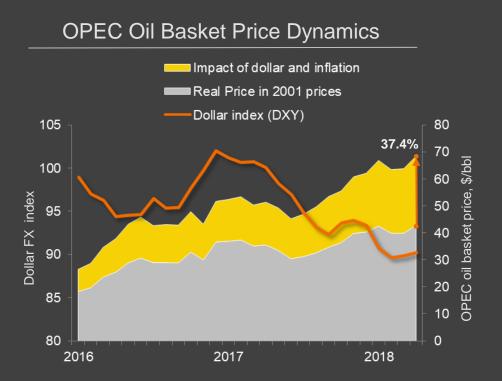
### Liquids Production



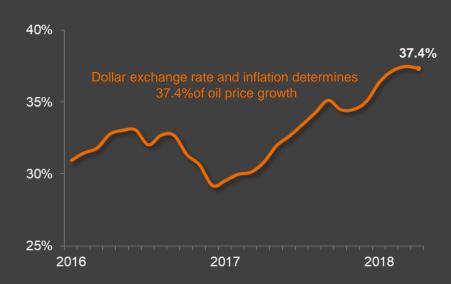
# Petrochemicals and Transportation – Key Drivers of Crude Oil Demand



## Impact of US Dollar on Crude Oil Price

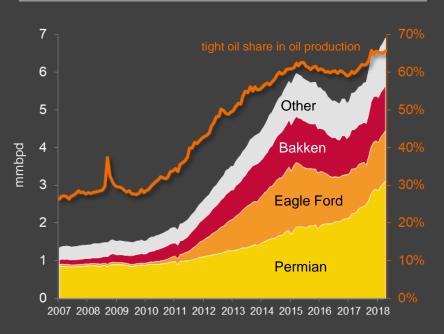


## Dollar FX and Inflation Impact on Oil Price Growth

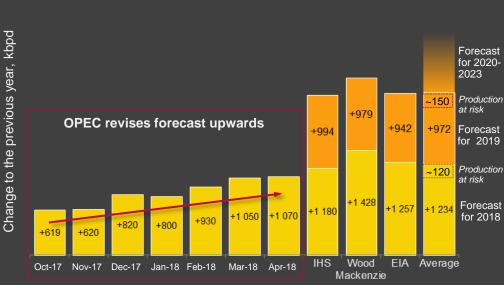


## **Evolution of US Tight Oil Production**



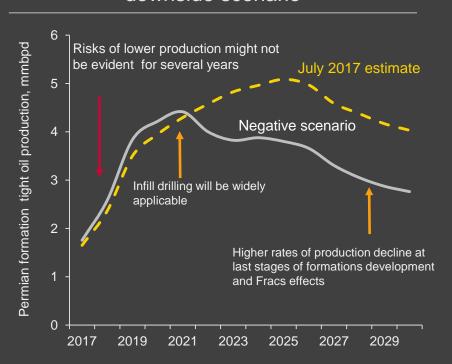


#### Tight Oil Production Forecast



## Long-Term Constraints for Tight Oil Production

## Permian formations geological risks downside scenario



#### **Drilling and development**

- Significant increase of drilling grid density
- Wells watercut growth
- Gradual exhaustion of sweet spot reserves

#### **Ecology & environment**

- Associated gas flaring
- The need for large quantities of water for Fracs threat to formation water

#### **Project Economics**

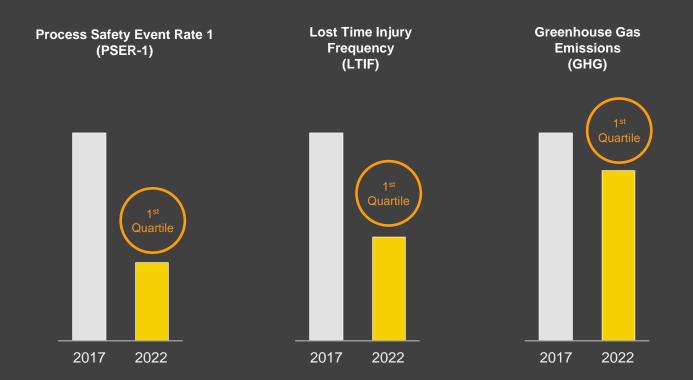
- Industry inflation
- Infrastructure bottlenecks
- Lack of equipment
- Lack of skilled manpower



## **Rosneft-2022 Strategy**

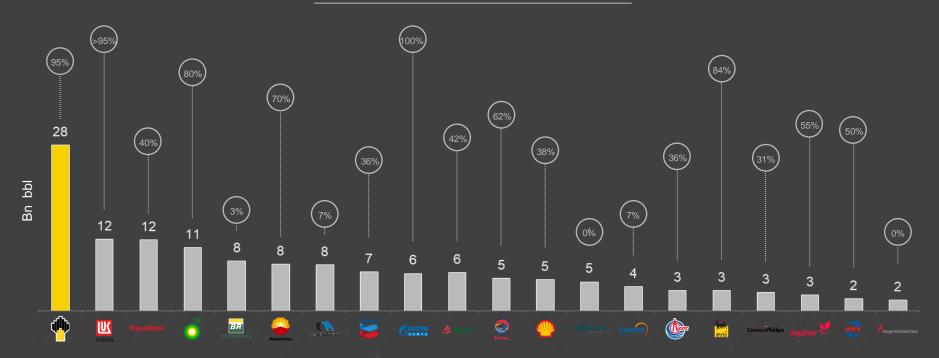


## Health, Safety and Environment: Industry Leader



# Crude Oil Reserves as Sustainable Competitive Advantage





%%) Share of conventional reserves

## **Crude Production**

#### Rosneft - 2022

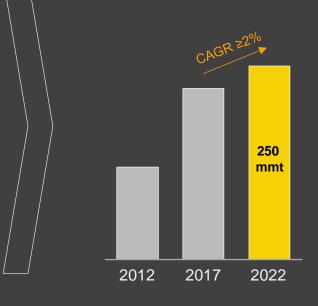
40% Share of horizontal wells

-10% Reduction of well costs\*

33 mmt Hard-to-recover oil production

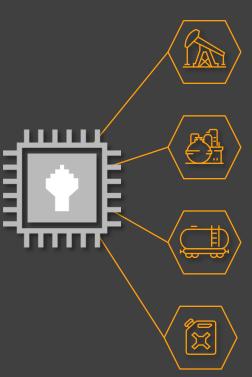
+20-30% Increasing productive time of drilling rigs

### **Liquids Production**



## Focus on Developing Technological Edge

### Programs (Integrated Digital Solutions)



#### "DIGITAL OILFIELD"

- Development of oilfields with application of big data
- · Real time modeling and optimization of production based on the industrial Internet
- Predicting of hardware failures

#### "DIGITAL PLANT"

- · Modelling of production processes using big data
- Design, construction and operation of plants using 3D models
- Predicting hardware failures

#### "DIGITAL SUPPLY CHAIN"

- Planning, control and simulation of supply chain based on big data
- Risk management and trading based on digital platforms

#### "DIGITAL FUEL STATION"

- Using big data for pricing and attracting the customers
- · Interaction with customers based on self-service terminals
- · Real time material flows control at fuel stations and stock management

