# Re-birth of Funding E&P

Peter Nicol 28<sup>th</sup> February 2018

# **Energy Transition**

# New York sues big oil companies over climate change

City will also look at divesting its pension funds of fossil fuel companies

# Oil investors face dilemma as demand is likely to fall

Fossil fuel assets have potential to be 'unburnable' as climate change awareness grows

#### Exxon plans for carbon-constrained future

Biggest US energy group believes it will be able to exploit all of its reserves

# ExxonMobil bows to shareholder pressure on climate reporting

Oil group to improve disclosure of impact assessment from policies to tackle warming

Overview

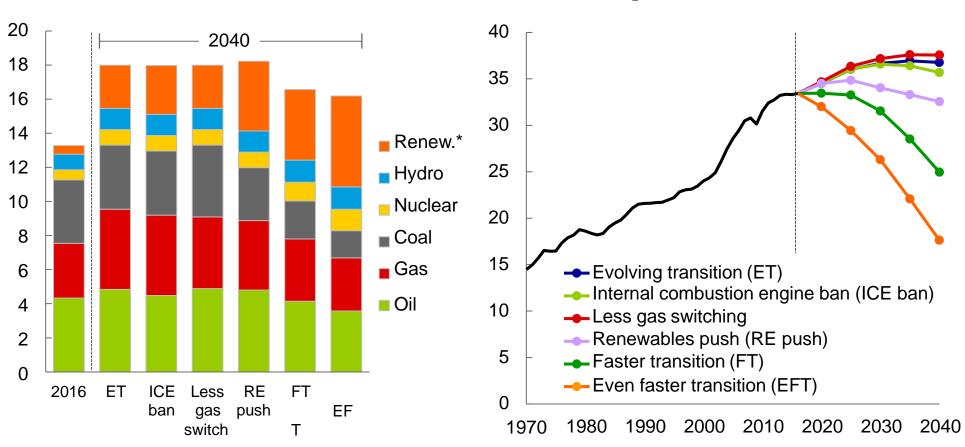
#### The Energy Outlook considers a range of scenarios...



#### Primary energy consumption by fuel

Carbon emissions

Billion toe

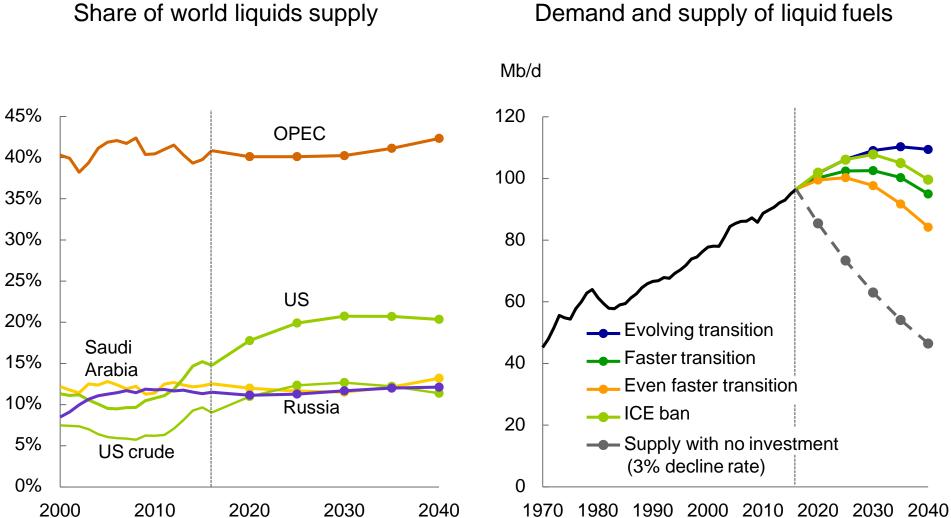


Billion tonnes CO<sub>2</sub>

\*Renewables includes wind, solar, geothermal, biomass, and biofuels For full list of data definitions see p122 32

#### Fuels: Oil

#### Global liquids supply growth is led by low-cost producers...



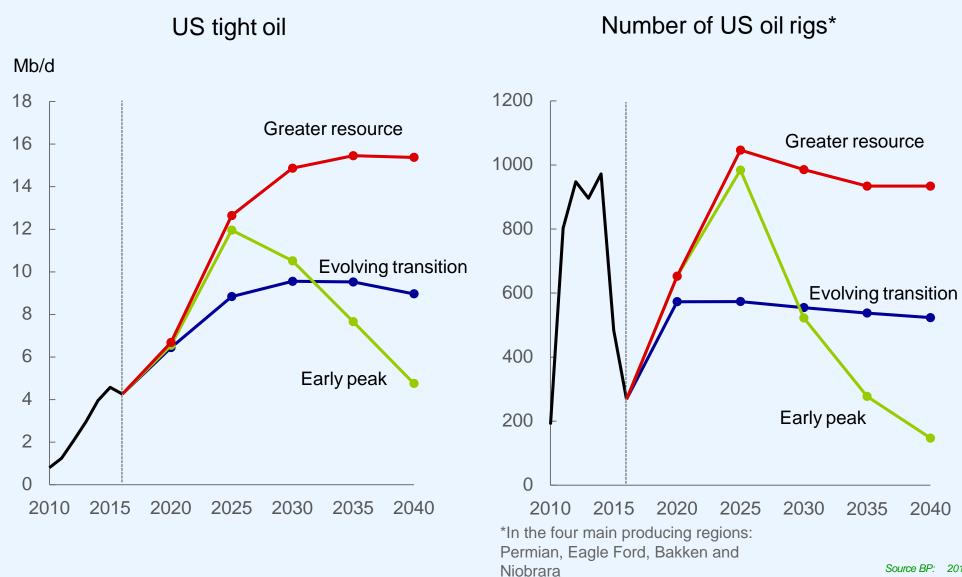
Demand and supply of liquid fuels





#### Alternative scenario: US tight oil could grow more rapidly...



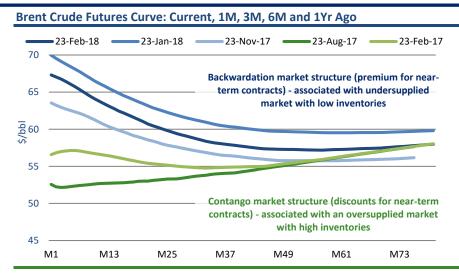


Source BP: 2018 BP Energy Outlook © BP p.l.c. 2018

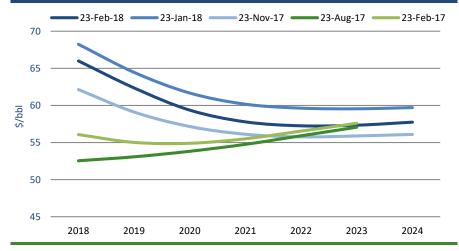
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#### ERC dequipoise

#### **Brent Crude Oil Futures Review**



#### Brent Curve: Annual Averages - Current, 1M, 3M, 6M and 1Yr Ago



#### Brent Futures Curve Spread (12M Ago to Current) \$/bbl Growing optimism about the global oil market reaching balance has \$/bbl 15 helped strengthen prices in the near-term, resulting in the spreads 80 flip into backwardation 10 36M-48M 24M-36M 70 12M-24M 6M-12M 0M-6M Brent Spot (RHS) 60 50 -5 -10 40 Jan-18 Mar-17 Apr-17 Jun-17 Jul-17 Dec-17 May-17 Oct-17 Nov-17 Aug-17 Sep-17 -ep-

Annual Averages of Brent Futures Contracts (Current Vs 1M, 3M, 6M and 1Yr Ago)

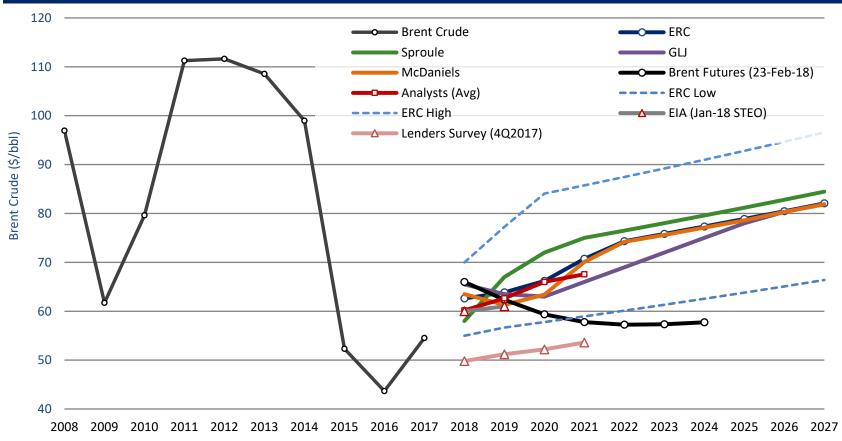
\$/bbl	2018*	2019	2020	2021	2022	2023	2024
23-Feb-18	66	62	59	58	57	57	58
23-Jan-18	68	64	62	60	60	60	60
23-Nov-17	62	59	57	56	56	56	56
23-Aug-17	53	53	54	55	56	57	-
23-Feb-17	56	55	55	56	57	58	-

(The latest Brent Futures 2018 figure is the arithmetic average of the futures prices for the remaining year's balance)

The 'spot price' of an asset is the price of buying or selling the asset today. The 'futures price' of an asset is the price of entering into a contract today to buy or sell the asset on some agreed future date. The set of prices for all future dates is then called the 'futures curve'. The futures curve is not a forecast of future spot prices by the market. A commodity futures contract is a binding agreement that gives one the right to purchase that commodity at a predefined price on a predefined date in the future. Under a futures contract, both the buyer and the seller are obligated to fulfil their side of the transaction on the specified date. The futures curve shows the price at which it is possible to buy/sell futures contracts for a forward date at a price agreed today (or on a particular date in the past).



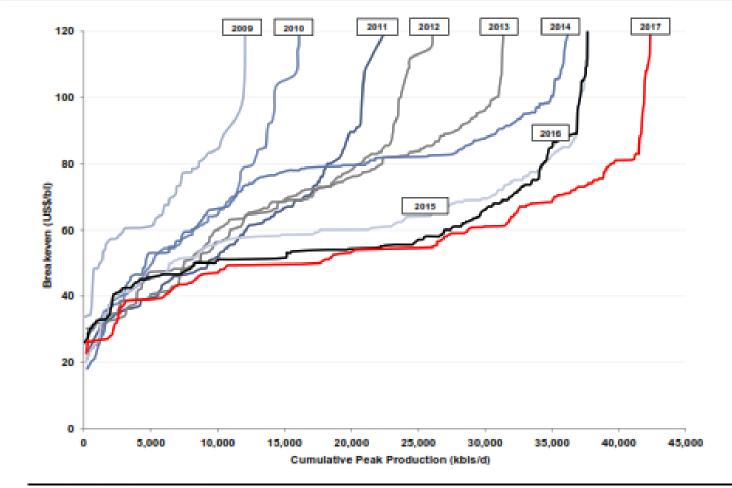




	2018	2019	2020	2021	2022
Petroleum Consultants (Avg)	62	64	66	70	74
Financial Analysts (Avg)	60	63	66	68	-
Brent Futures (23-Feb-18)	66	62	59	58	57
EIA (Jan-18 STEO)	60	61	-	-	-
Lenders Survey (4Q2017)	50	51	52	54	-

Source: Sproule, GLJ, McDaniel, Intercontinental Exchange, Reuters, EIA, Macquarie, ERCE Estimates. Note: \*publication date. Note: \*Estimates for 2018 Brent futures is the arithmetic average of the futures contracts for the remaining year's balance.

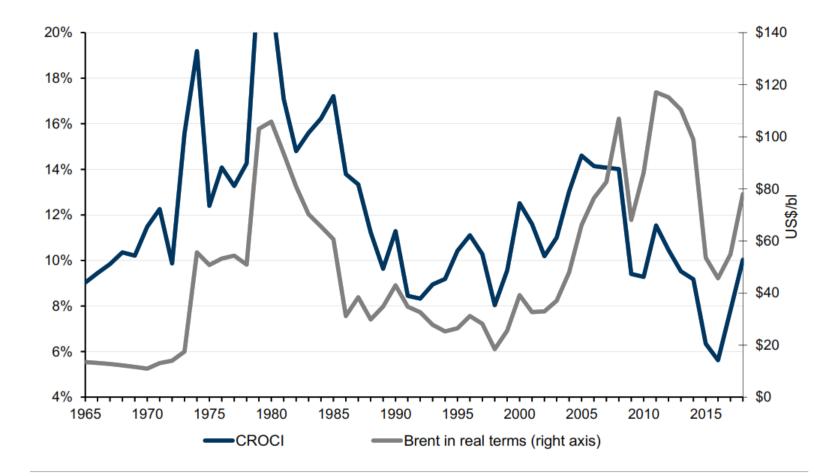
### Supply Costs Have Fallen



Source: Anthroan Carlos Alebal Insentment Research

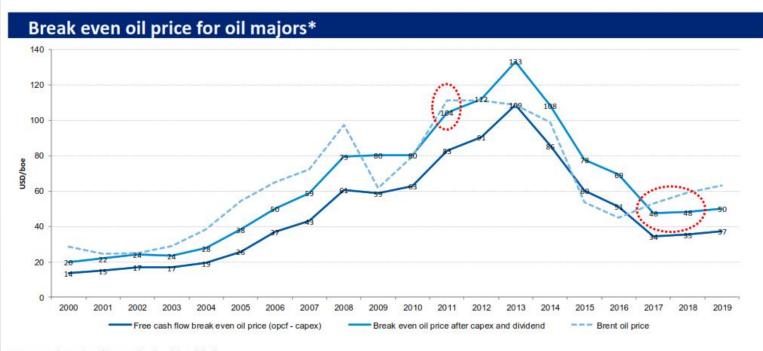
## **Disappointing Returns**

CROCI (cash return on cash invested for XOM, BP and RDS), LHS vs. Brent in real terms



### **Disappointing Returns**

2018e: Second year with oil price above break even oil price since 2011



#### How we estimate break even oil prices (simplified):

- · Collect annual data for operational cash flow, capex, dividend and production (i.e., four key numbers per year per company included in sample)
- Calculate average opcf per boe and opcf per boe as a percentage of annual oil price
- · Calculate required oil price change to force free cash flow (opcf capex) to zero. Compare the required oil price for zero FCF to the actual oil price

\* Statoil, Eni, BP, Total, Shell, Repsol, Chevron, Exxon, ConocoPhillips. Source: Factset

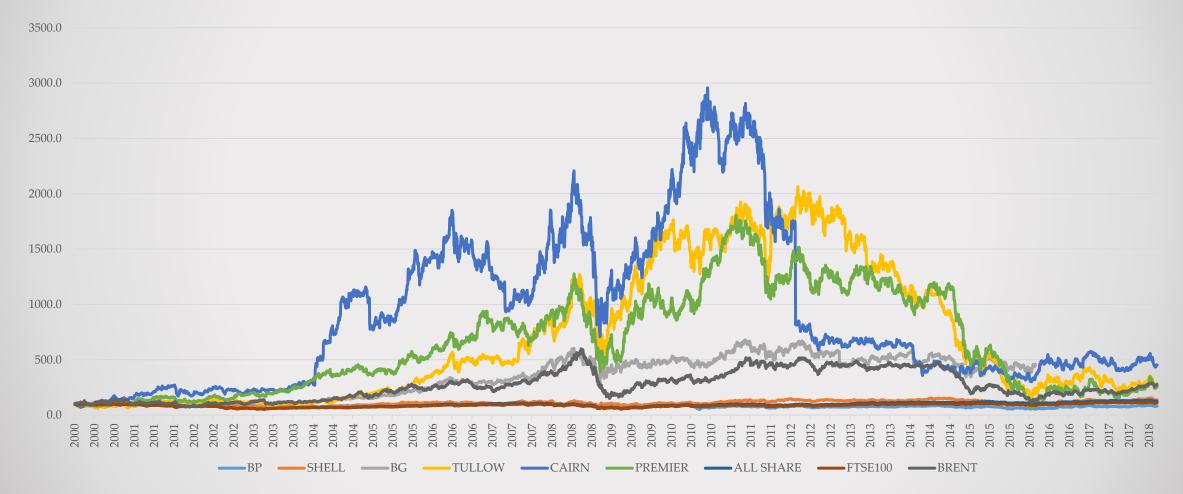


# BP, Shell BG Relative to UK Market 2000-2018

BP, Shell BG Relative to FTA All Share (start indexed to 100)

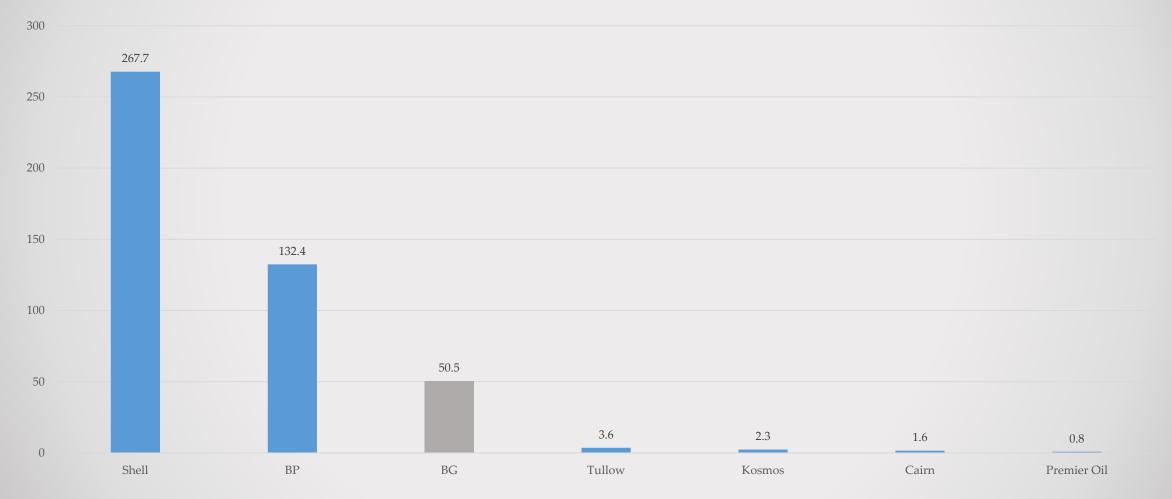


#### Majors, E&P Oil Price & Market 2000-2018



# Oil Sector Market Capitalisation

#### Selected companies \$bn



#### E&P Companies > \$1bn April 2014

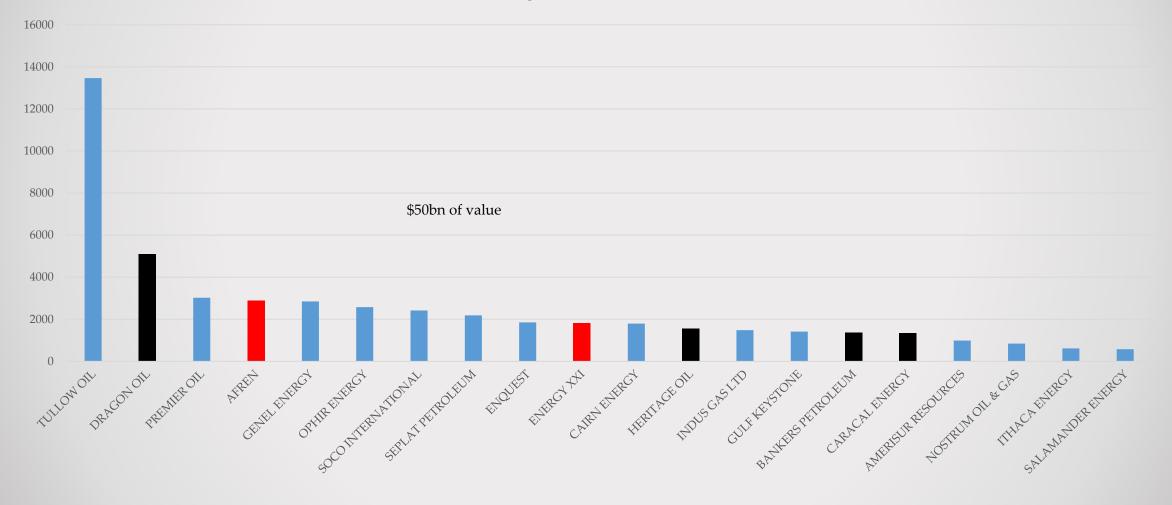


#### E&P Companies > \$1bn January 2018

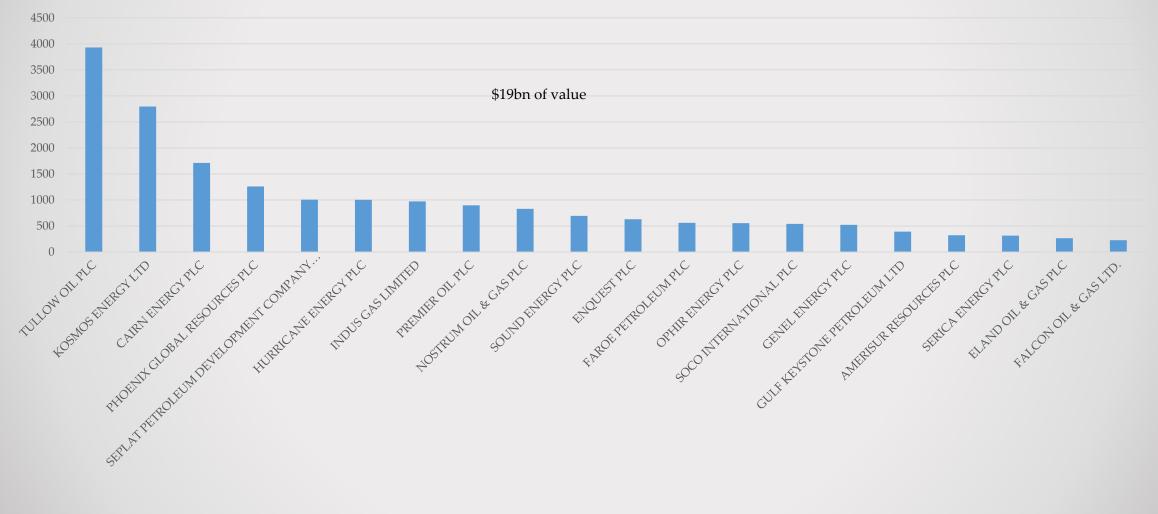
E&P Companies > \$1bn Mkt Cap January 2018



#### 20 Largest E&P Companies April 2014



#### 20 Largest E&P Companies January 2018



#### Largest E&P Companies April 2014 cf Jan 2018

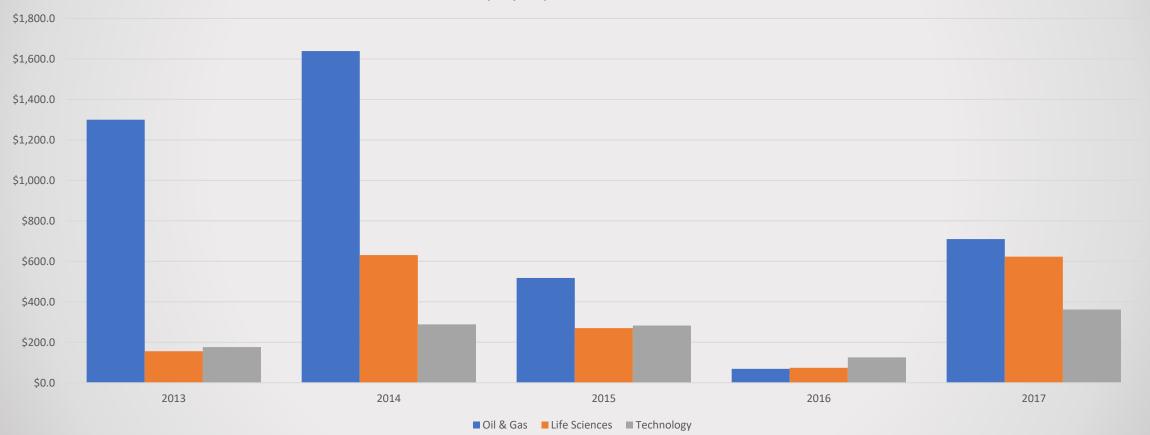


### **Energy Specialist Funds Suffer**



#### Toronto Risk Capital moves to other sectors

Equity Capital Raised - TSX-V

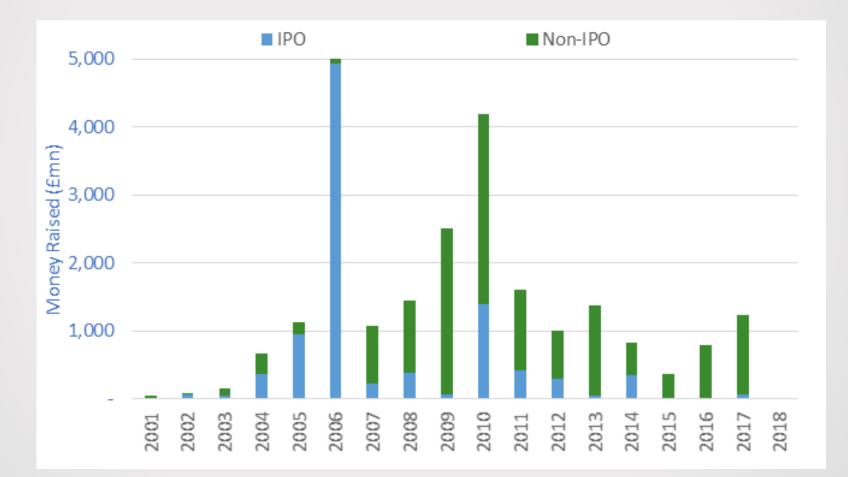


#### Toronto Risk Capital moves to other sectors

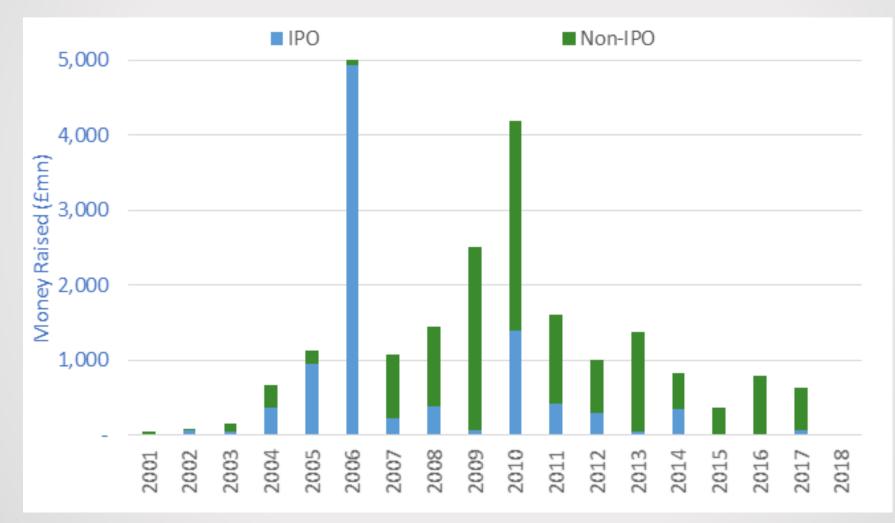
Number of Equity Financings - TSX-V and TSX



## Recovery in London financing

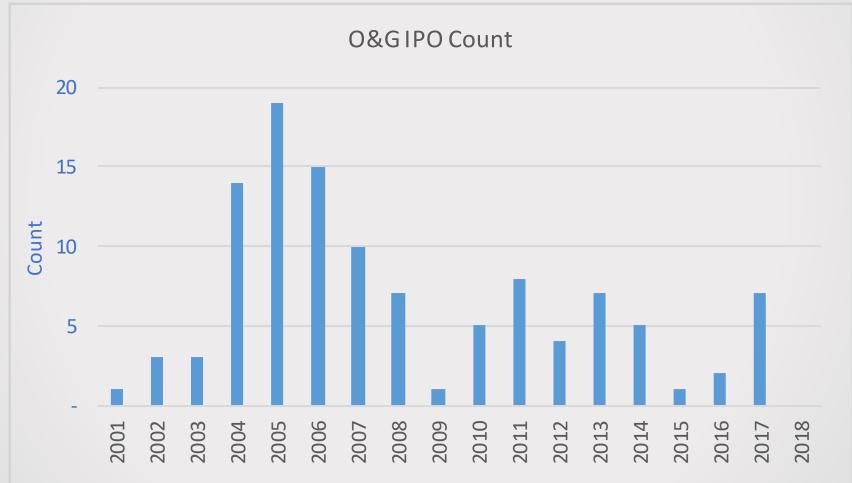


#### Recovery in London financing (excluding Tullow Rights Issue)



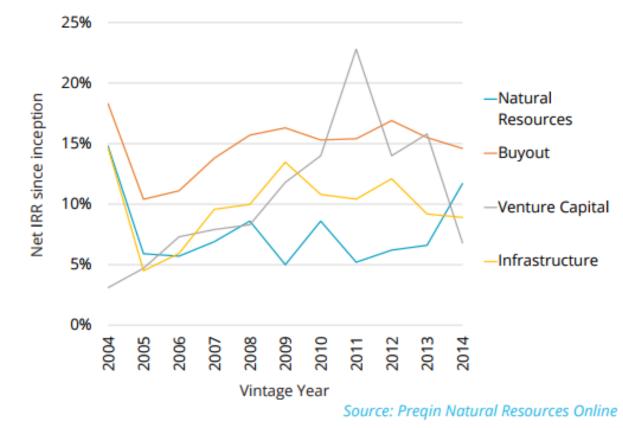
Source LSE Statistics PN estimates

# Recovery in London financing



#### Private Equity – The Great Saviour

Fig. 7.2: Median Net IRRs by Vintage Year: Natural Resources vs. Other Private Capital Strategies (As at June 2017)



#### **Performance Ranking**



# What the market wants?

• To make money

(A \$1bn-\$5bn balanced production development exploration company?)

- Good management teams with successful track records
- Realistic valuations when seeking financing.
- Cost control
- Good opportunities

# Corporate Structure

- Management.
  - Track record, necessary skills, investment to date, exclusivity to this venture
- Board
  - Track record, independence, add value complement management team
- Business Plan
  - Strategy, acquisition and exploitation of assets, capital requirements, how much capital has been raised to date and at what prices, technical challenges
- Structure
  - Is asset valuation fair or realistic, preferred shares, options, warrants is management team aligned with investors, is financing sufficient?

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