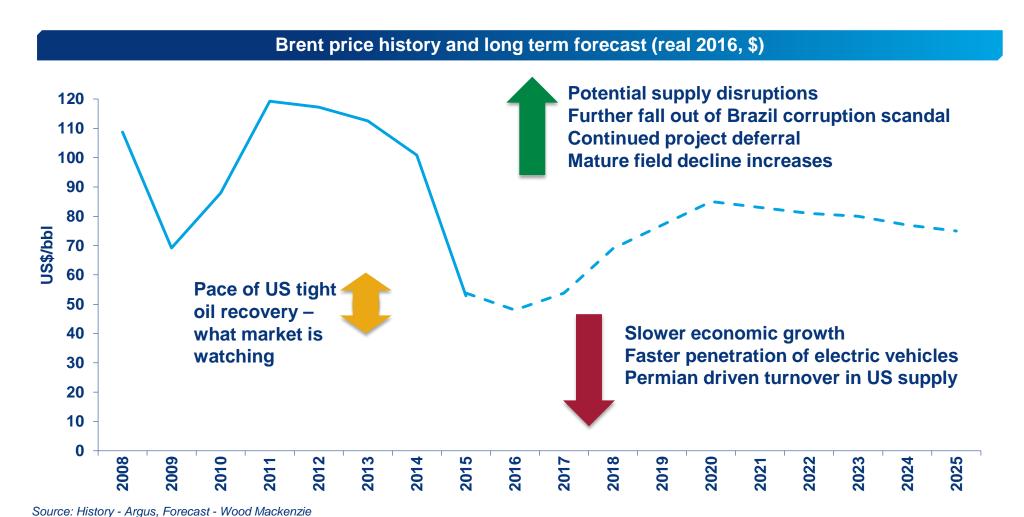


Oil prices: Brent US\$85/bbl by 2020 on low OPEC spare capacity

Prices tempered next decade by new tight oil volume growth in the US

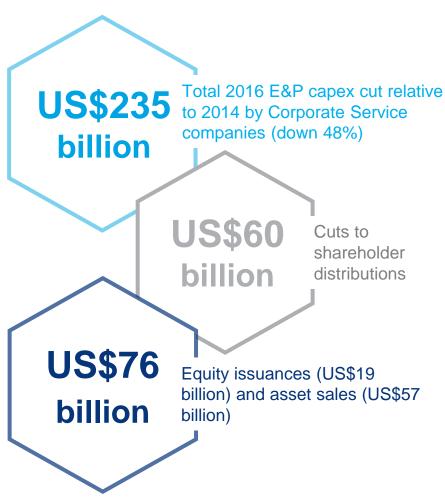


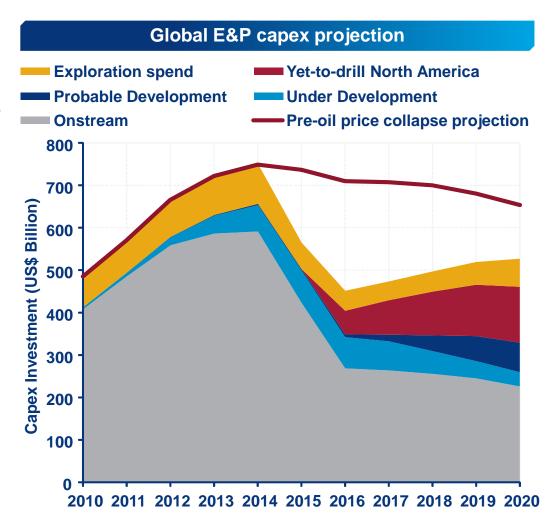




Survival: dramatic industry response to the oil price collapse

Companies cut spend hard; global capex down nearly 40% from peak



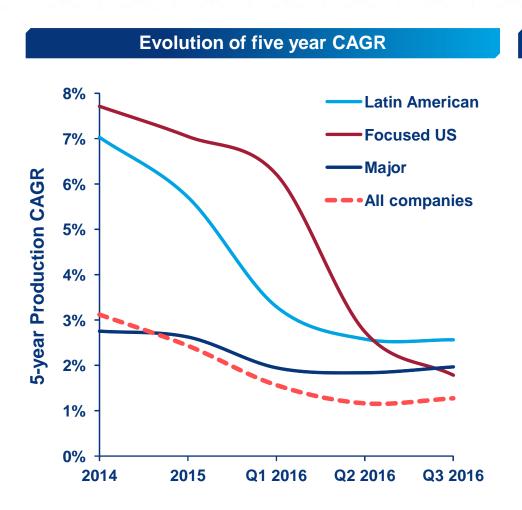


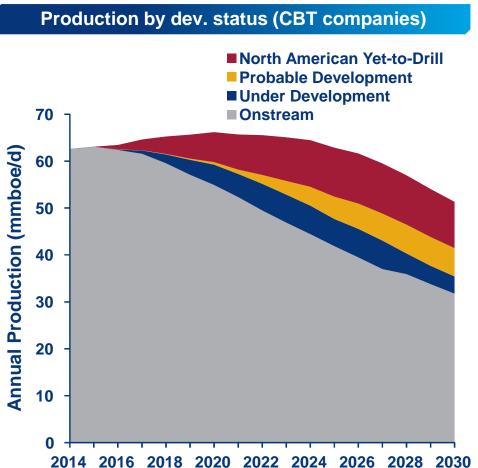
Source: Wood Mackenzie



The damage: production growth is faltering

Sustaining output needs investment in new projects



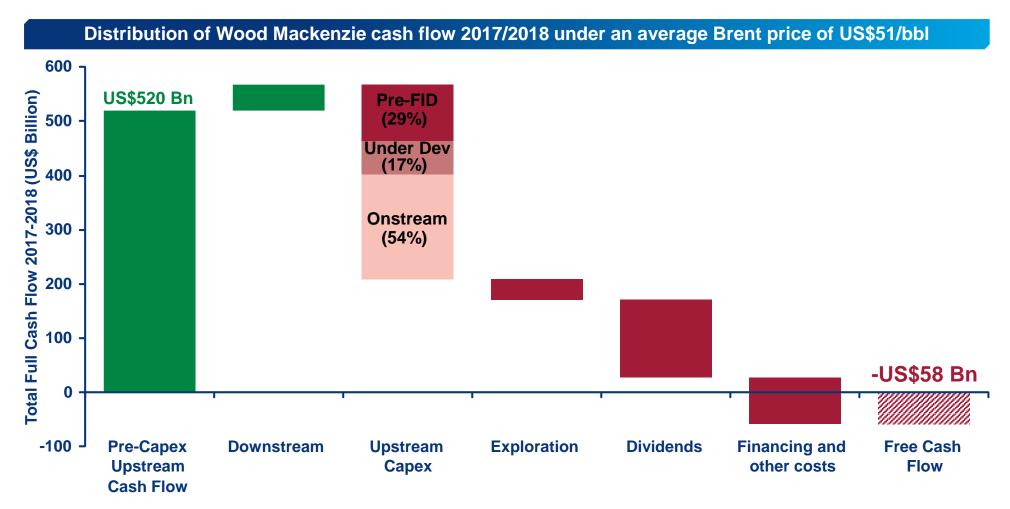


Source: Wood Mackenzie CBT Q3 2016



Capital availability still a big factor limiting new investment

The industry will not achieve cash flow neutrality at current forward prices



Source: Wood Mackenzie CBT Q3 2016. Companies covered in CBT only. Dividend estimates include cash savings from scrip issuance. Assumes equity financing for all projects.



The strategic balancing act: emphasis on value not volumes

Capital discipline will frame the strategic response into the recovery phase

Value

- Capital discipline
 - Balancing the books
 - Defending dividends
 - Deleveraging
- Project delivery
- Project returns



Volume

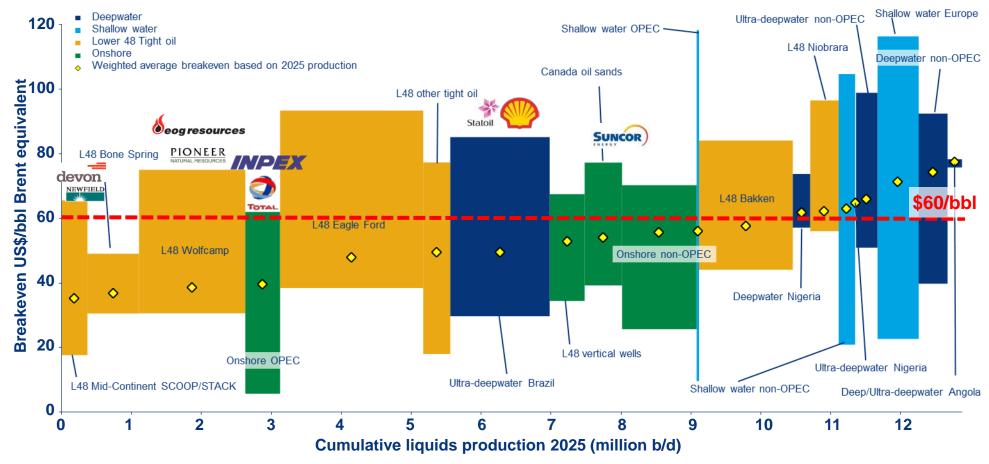
- Under investment
- Declining resources
- Long-term strategy



Growth option 1: repositioning at the low end of the cost curve

A low cost hopper will be a key strategic advantage

Pre-FID and US L48 future drilling cumulative production by breakeven in 2025 – by resource theme

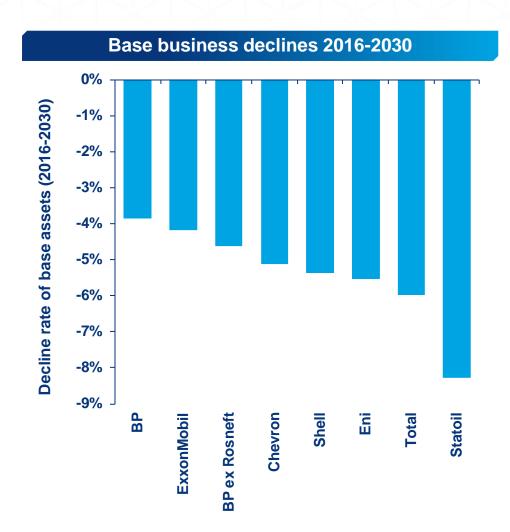


Source: Wood Mackenzie onshore breakevens at 10% discount rate, offshore at 15%

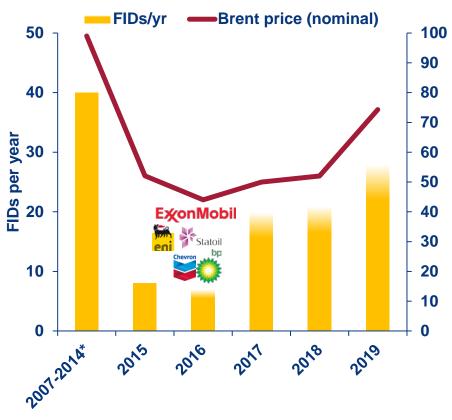


Growth option 2: exploiting the existing portfolio

Drive down breakevens, sanction projects that make the grade and exploit the base



Upstream project tracker: FID outlook 2016-19



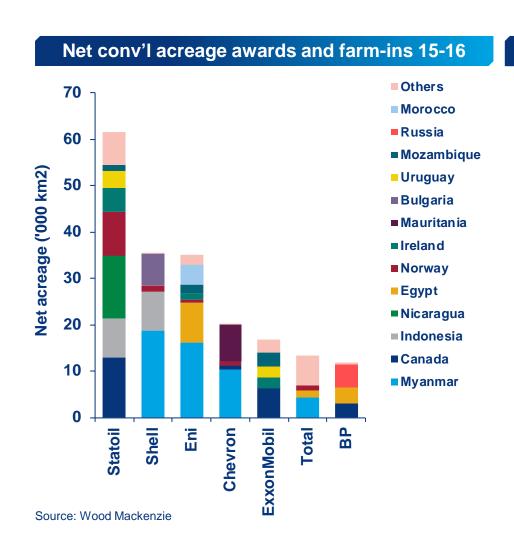
*Average per year, Brent price assumption **Projects >=50 mmboe

Source: Wood Mackenzie Q3 2016. Left hand chart shows the annual decline rate from assets onstream and under development between 2016 and 2030.



Growth option 3: new ventures

Exploration success needed to offset long-term declines; low cost DROs on the horizon



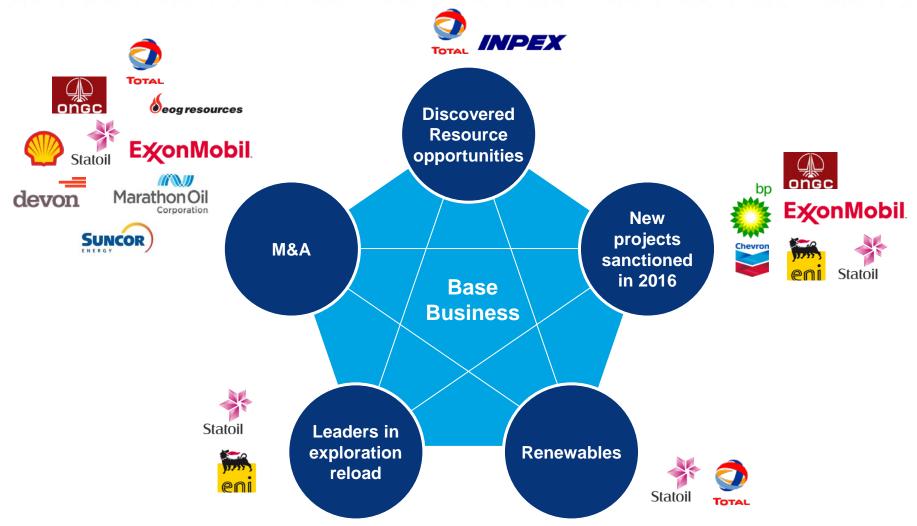
Key exploration themes

- High-impact acreage still sought after
- Avoidance of short contract periods
- Lack of appetite for spending commitments
- No appetite for highly-taxed contracts
- Minimal signature bonuses



Divergent strategies emerging since the oil price crash

Strategy dependent on portfolio, finances and capabilities



Source: Wood Mackenzie







