



TOTAL E&P UK : A JOURNEY OF TRANSITION

OGUK CONFERENCE: 4 JUNE 2019

OVERVIEW OF TOTAL E&P UK



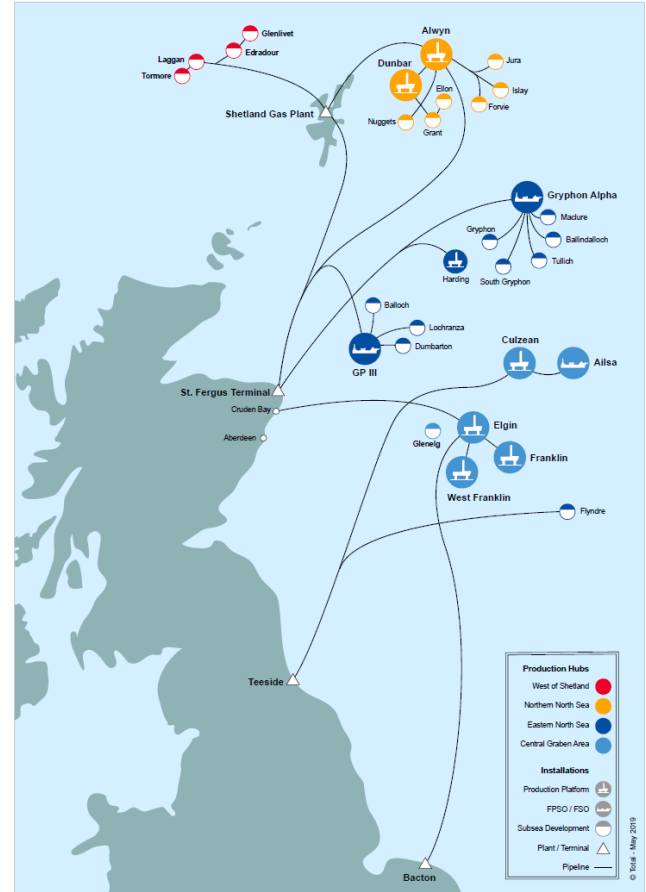
One of the **largest producers** of oil and gas on the UKCS
operated production > 15% of UKCS total



2019 **operated budget of ~ £1.7bn**
Expected expenditure of £5bn over the next five years



Employing around **625 people onshore**
and 475 people offshore



TOTAL E&P UK – BUSINESS TRANSITION

**VISION
2035**
UK oil and gas industry



**talent
&
assets**



Integrate

the teams from
Maersk and
TOTAL, making a
larger business
here for the long
term

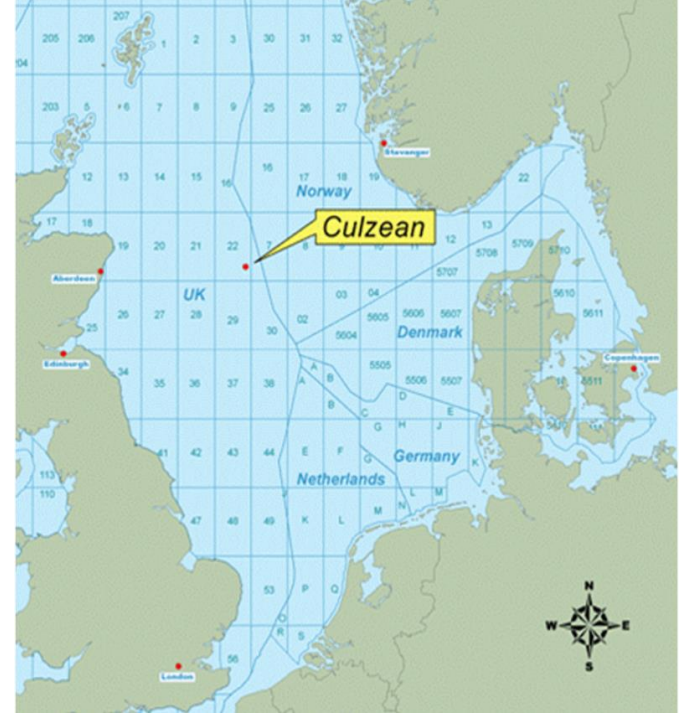
Develop

our people, to
enable us to meet
their expectations
and deliver our
business goals for
our assets

Transform

using new
technology in the
next stage to
operate more
efficiently and
enhance safety

WELCOME TO CULZEAN



ARGOS PROJECT & OGRIP TIMELINE



R&D

2017

TOTAL E&P UK 2018

2019

OGRIP+

TAUROB



ARGOS COMPETITION

- International competition to discover best approach to autonomous robotics for oil and gas



OGRIP

- Working with the ARGOS Challenge winners to develop a working prototype
- Total E&P UK becomes Total's centre of excellence for robotics
- Robots deployed for testing at Shetland Gas Plant in 2019



OGRIP LEARNINGS 2020+

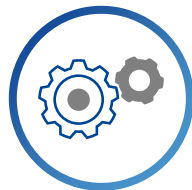
- Final steps before operational use of autonomous robots on oil and gas sites

DIGITAL FLAGSHIP ASSET: SAFER & MORE PRODUCTIVE



Maintenance & Inspections

- Decrease in Maintenance & Inspection spend with fewer offshore personnel
- Decrease in unplanned shortfalls



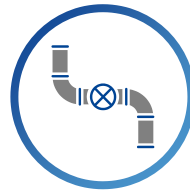
Processes & Production

- Improvement in production efficiency with machine learning driven prediction and automation



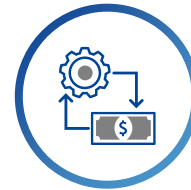
H3SEQ

- Sensors and machine learning to predict and prevent HSE events



Drilling & Subsurface

- Reduce well cost with smart drilling

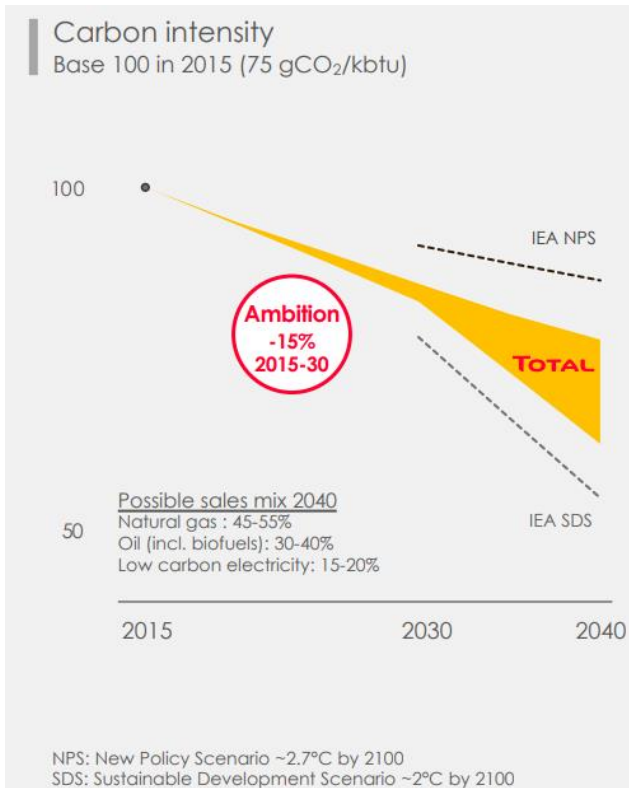


Commercial & Support functions

- Automate product sales processes
- Increase productivity of HR and finance

Digital tools will transform our business

TOTAL'S CLIMATE STRATEGY



Further improving **efficiency** of our **operations**

Growing in **natural gas**

Developing a profitable **low carbon electricity** business

Promoting sustainable **biofuels**

Investing in **carbon sink businesses**
(natural sinks & CCUS)

Our ambition is to deliver affordable, reliable, and clean energy