



Oil & Gas
Authority

How has the OGA encouraged MER ?

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OGA background



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Creating the OGA

New independent authority created April 2015, became government company (GovCo) on 1 October 2016

Effective stewardship of resources

New powers, better resourced and funded

Catalyst for change and facilitator of action

Encouraging collaboration and behavioural change

Focused on delivering regulatory excellence and a high-quality service and value-for-money to industry

Providing expertise and evidence to HM Treasury

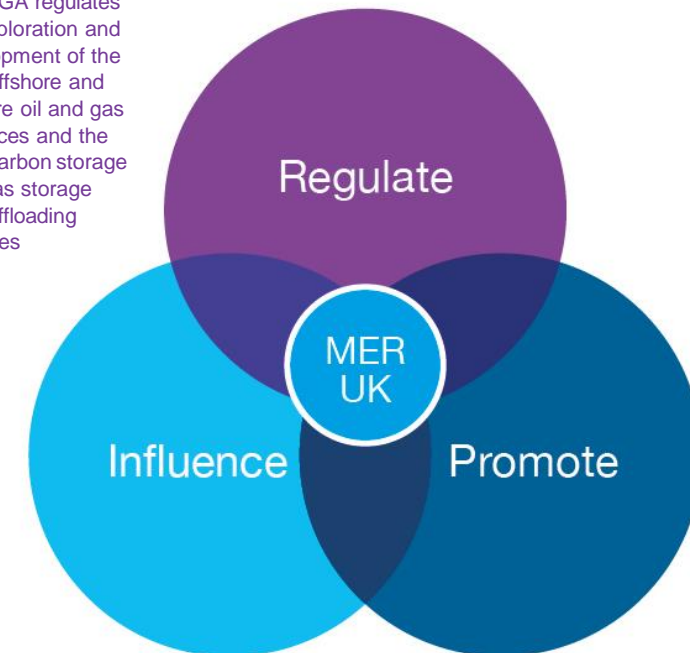
Transparency

Report to a Board of Directors

OGA values: accountable, fair, robust and considerate

OGA role

The OGA regulates the exploration and development of the UK's offshore and onshore oil and gas resources and the UK's carbon storage and gas storage and offloading activities



The OGA has a critical role to influence and encourage a culture of greater collaboration on the UKCS, improve commercial behaviours, and help enable a more efficient industry

The OGA has an important role to promote investment in the UKCS, create value in the UK through exports and develop the prosperity of the industry including wider supply chain

2014 – Crisis was looming



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UOC \$30



**Production
down, PE 64%**



**Exploration all
time low**



**No trust in fiscal
regime**



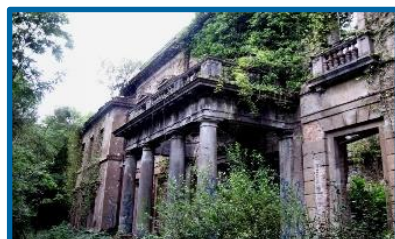
**Lack of vision, leadership &
strategic approach**



**Commercial
vipers nest**



**Decommissioning
headache**

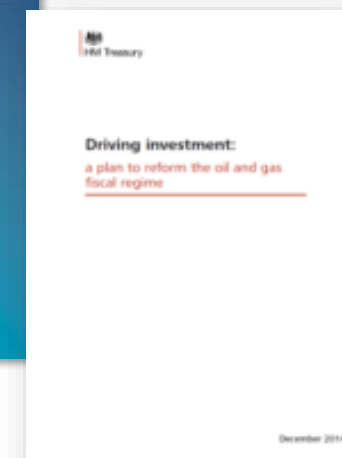


**Many assets in
the wrong hands**



**20th century
technology**

Governments thinking ahead



Government

Regulator

Industry

Tripartite

UKCS has come a long way since 2014

Fiscal measures



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The three Driving Investment principles for tax policy-making:

1 The overall tax burden will need to fall as the basin matures

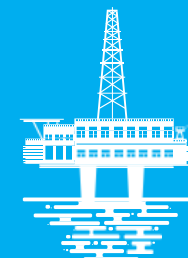
2 In setting fiscal policy the government will consider the wider economic benefits of oil & gas production, in addition to revenues

3 A 'fair return' will take account of the global competitiveness of commercial opportunities in the UK and UKCS, commodity prices and costs

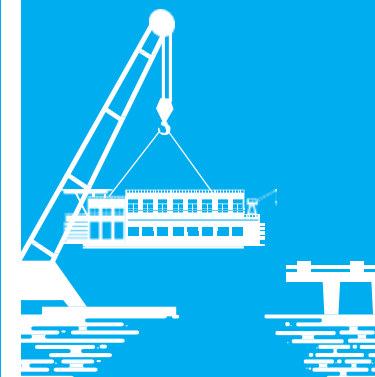
In line with UK Government's Driving Investment principles, packages worth £1.3 billion and £1 billion introduced in 2015 and 2016



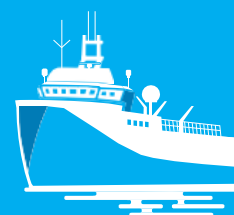
Supplementary Charge reduced from 32% to 10%



Introduction of new basin-wide Investment Allowance



From 1 November 2018, transferable tax history gives buyers increased certainty they can get tax relief for their decommissioning costs



2 x £20 million for new geophysical surveys in 2015 & 2016 and £5m for exploration data in 2017



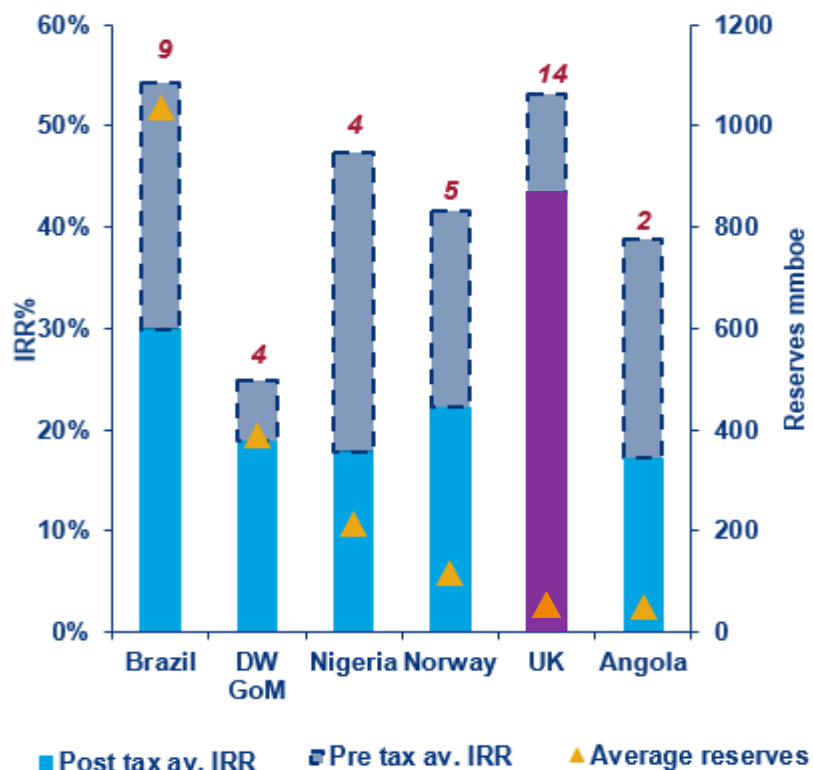
Petroleum Revenue Tax permanently reduced from 50% to 0%

UK now performing favourably



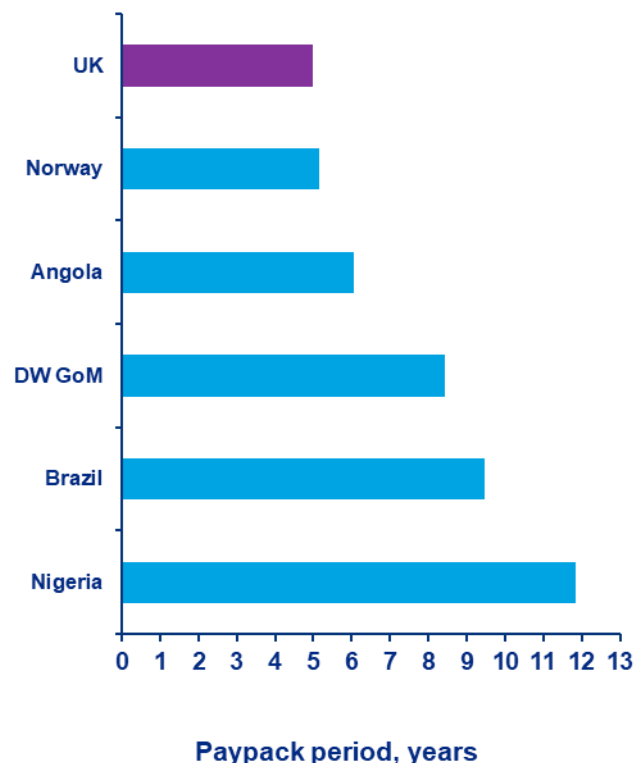
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IRR% and reserves

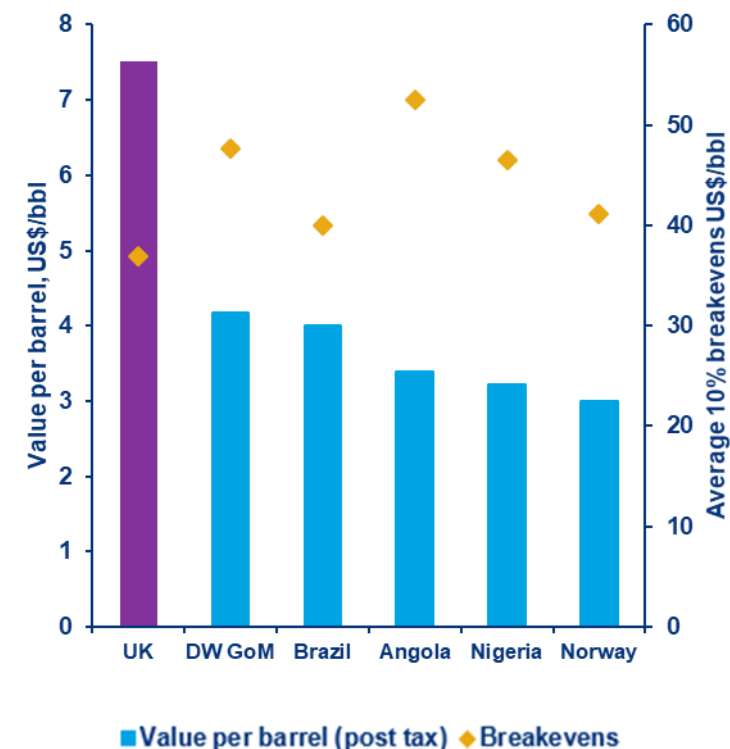


Number of projects in each region

Payback periods



Break-evens and value per bbl



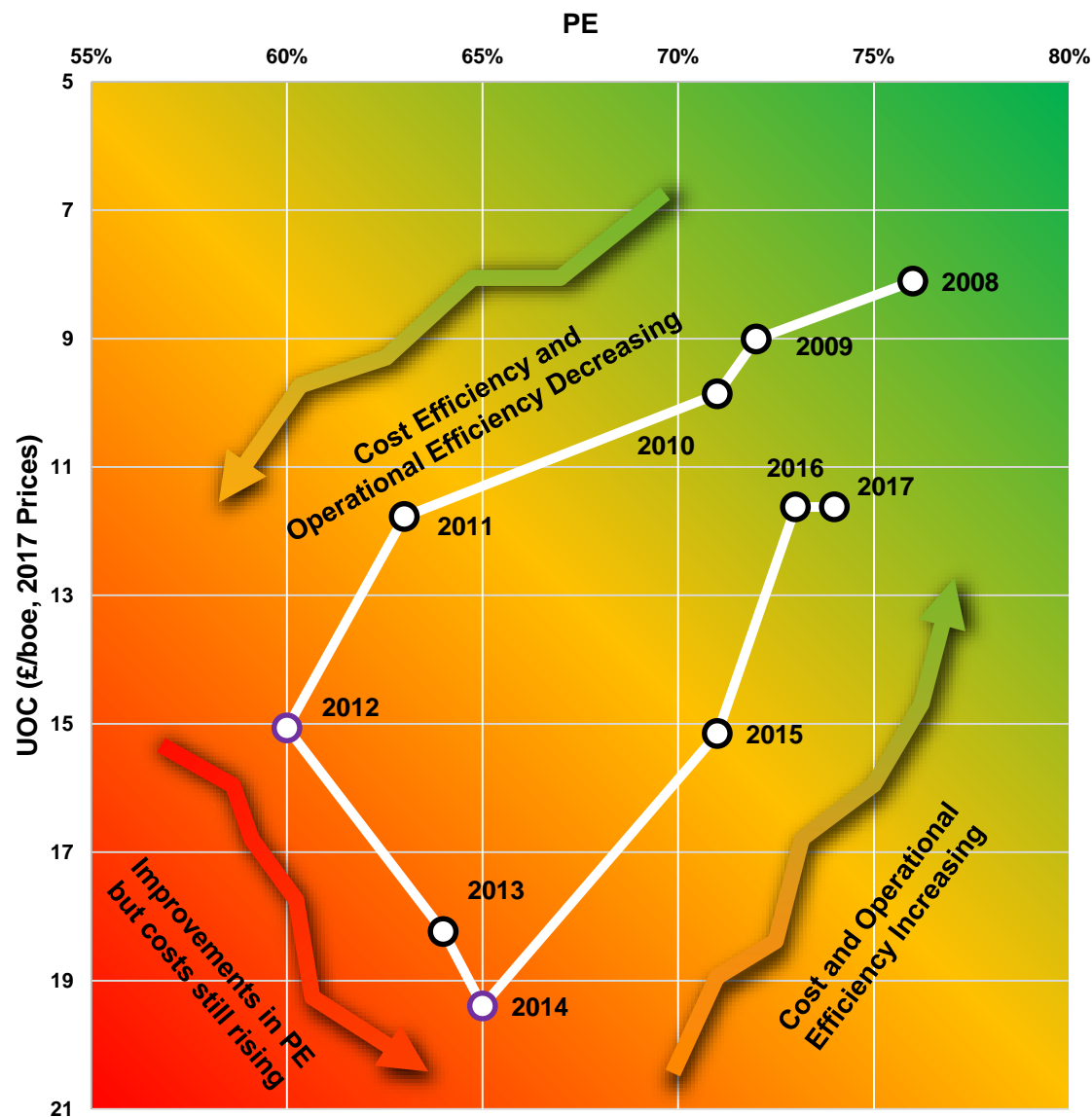
Source: OGA/Wood Mackenzie 2018

Leading on returns, payback, break-evens and value

Production efficiency & costs



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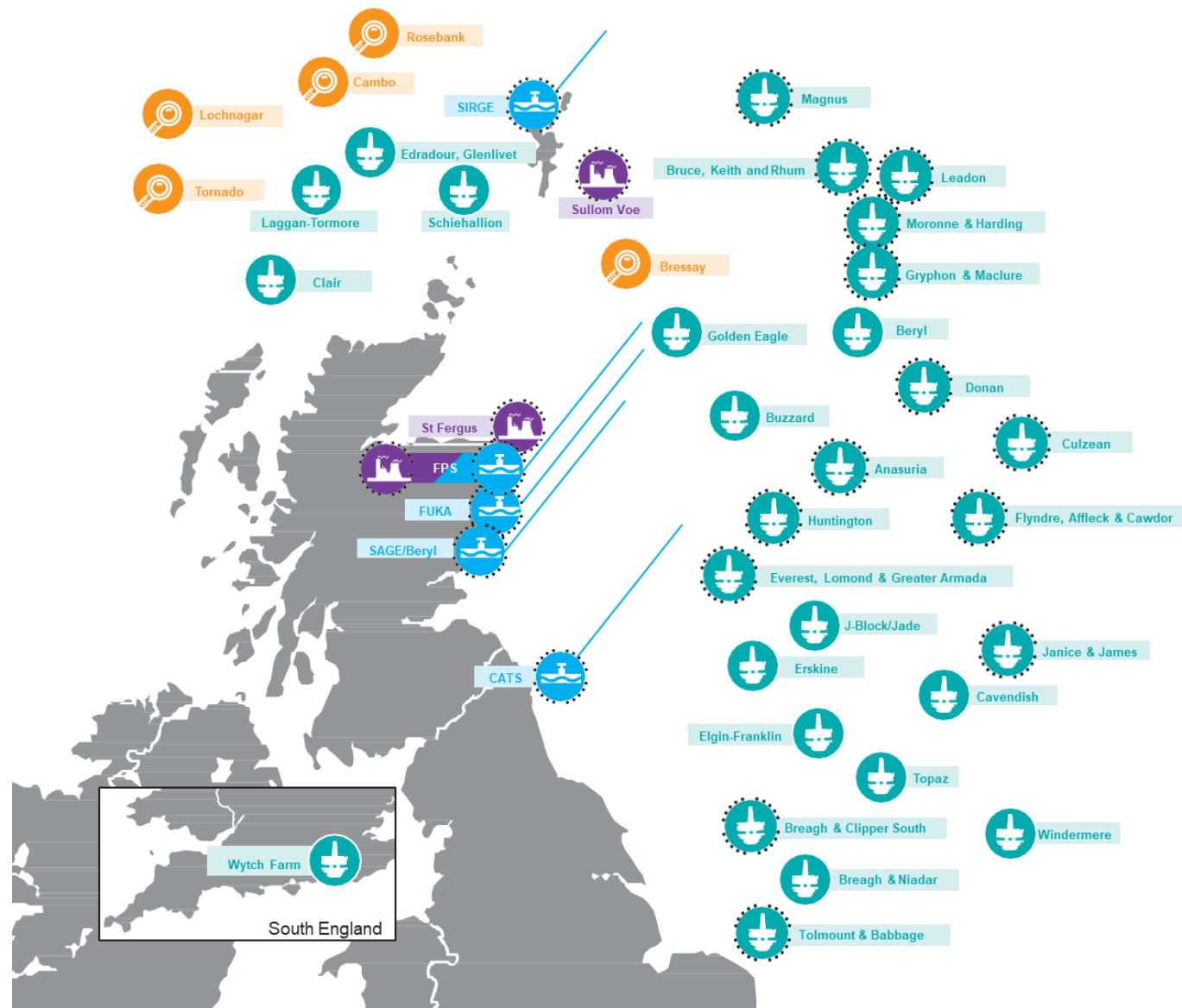


Continued industry focus is absolutely vital

Investment



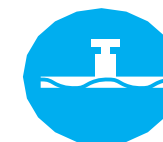
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Fields



Terminal



Pipeline

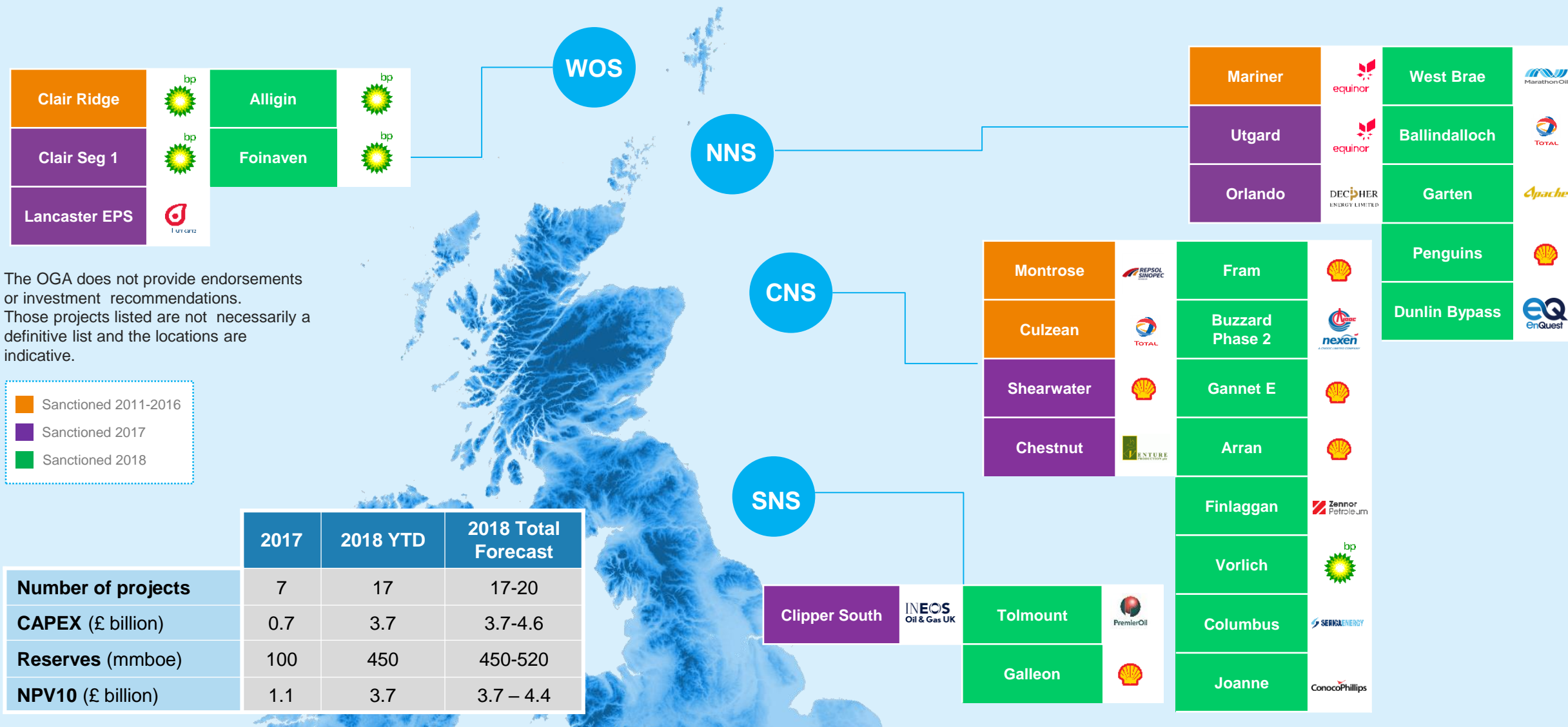


Discovery

In 2017 UKCS deal activity estimated at \$8bn

Ownership changed significantly & investment continuing into 2018

Project activity

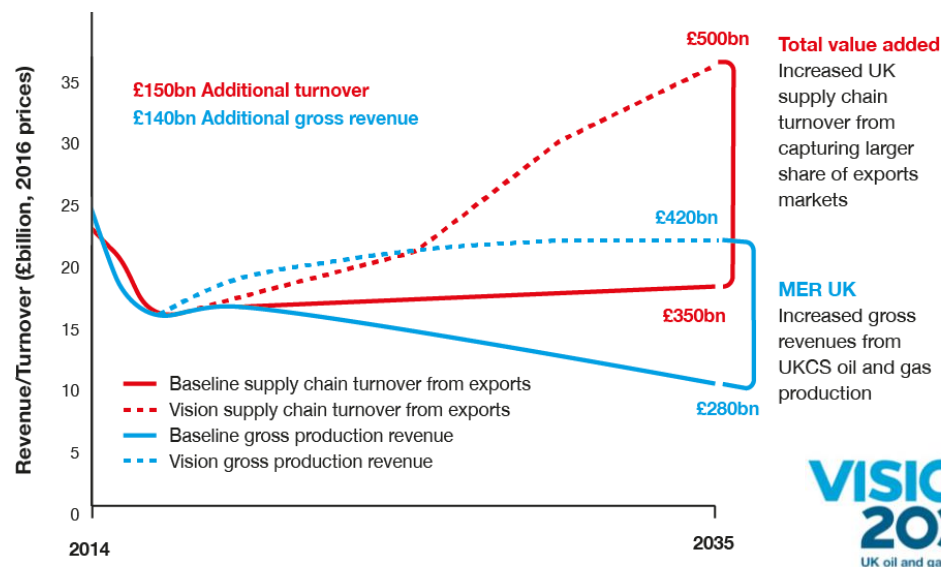


Highly encouraging turnaround in investment outlook

Strategic approach



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Sector Deal – Industrial Centres of Excellence

Transformational
Technology

Underwater
Engineering

Decommissioning

Strategies



Guidance



New stewardship regime



Sector wide data



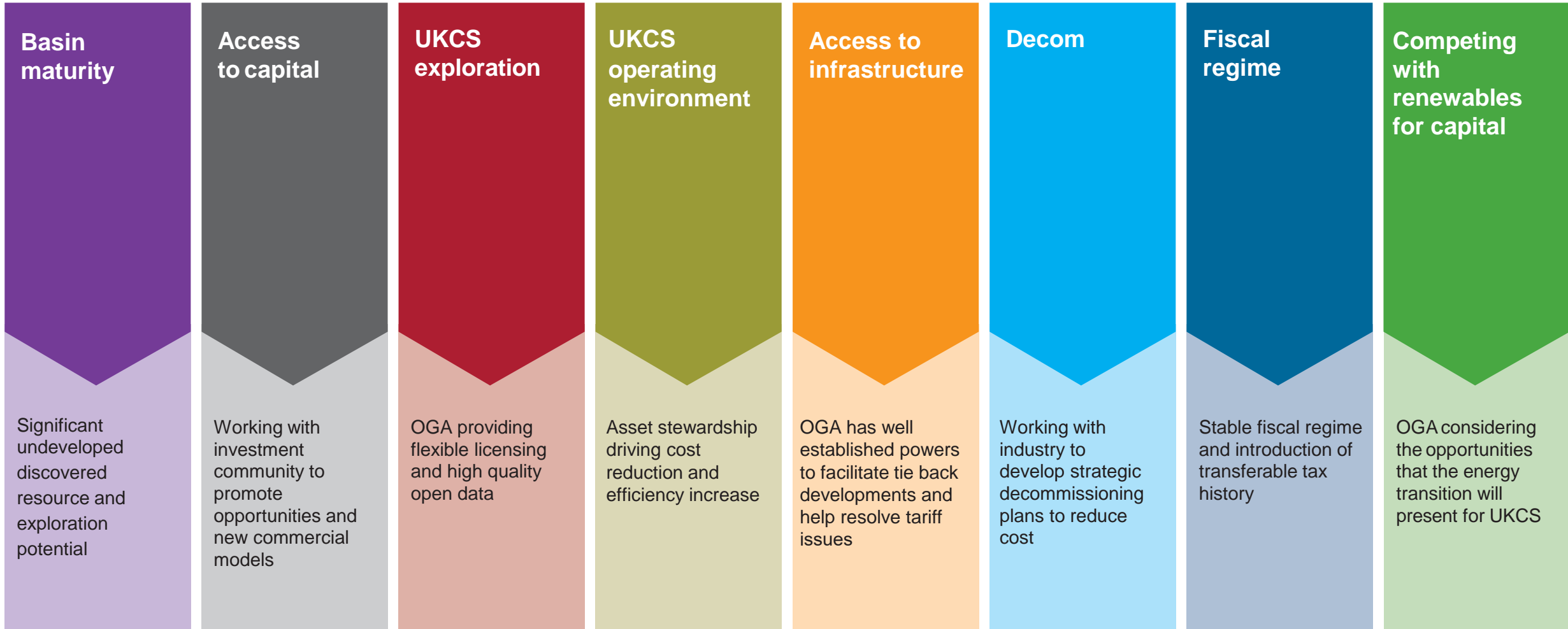
www.ogauthority.co.uk



Mitigating barriers to investment



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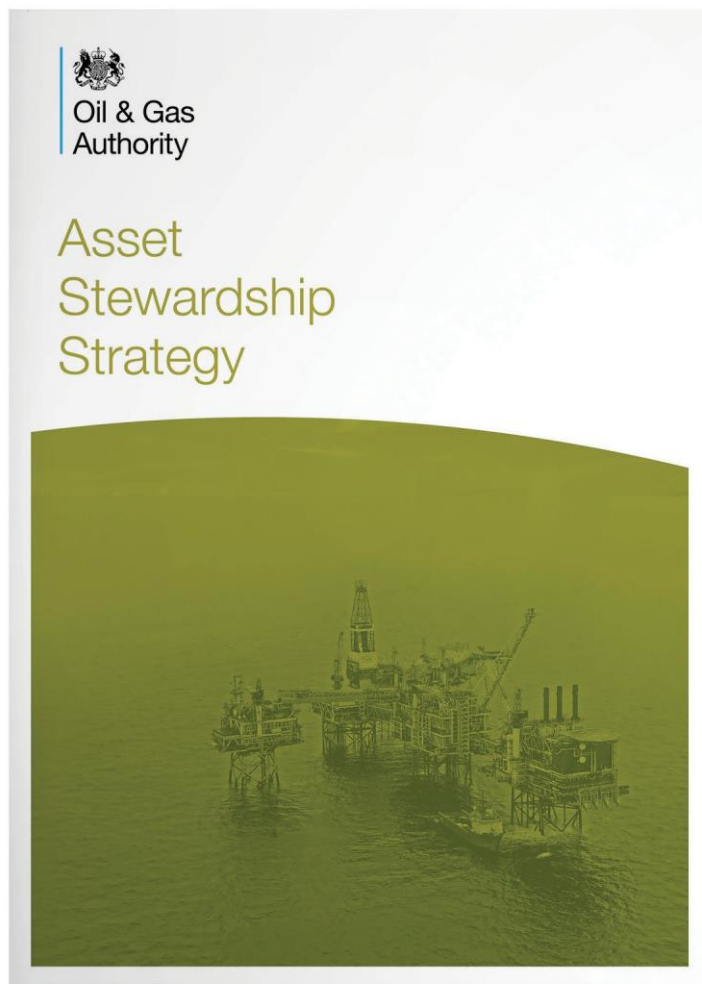


Systematically removing barriers to deliver value for investors

Asset stewardship



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Benchmarking

- Benchmarking assets for:
- Production efficiency
 - Recovery factor
 - Operating cost
 - Decommissioning cost

Results communicated confidentially in a non-attributable way to help continuous improvement

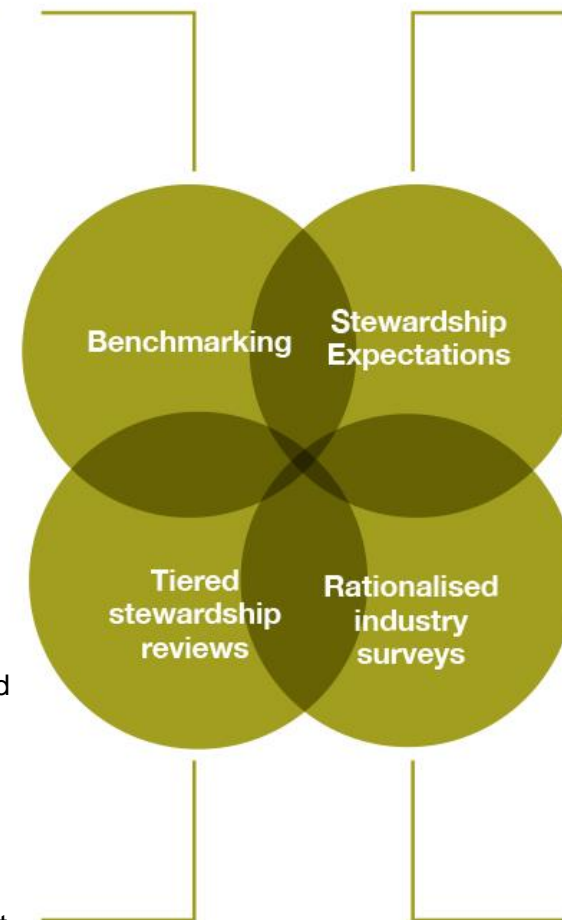
Stewardship Expectations

Expectations for industry, across the lifecycle, which, if followed, are intended to help facilitate the delivery of the MER UK Strategy obligations

Stewardship reviews

Proactive, structured and prioritised tiered stewardship reviews, based on intelligence gathered

Priority given to the greatest MER UK impact



Rationalised industry survey

New single, annual, UKCS Stewardship Survey which replaces nine previous surveys. Reduces complexity, time, effort and burden on operators and the OGA

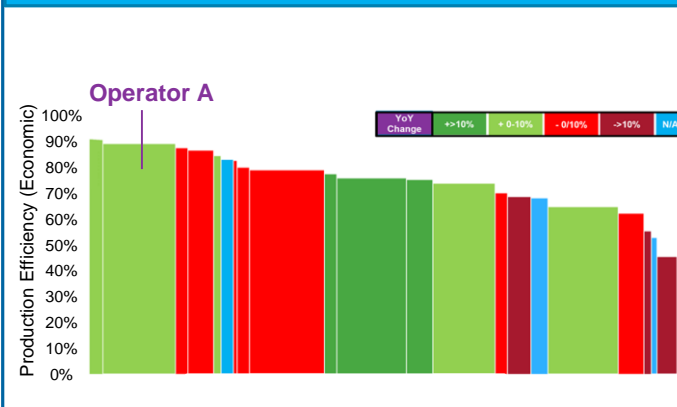
Asset Stewardship Expectations key tool to monitor and improve performance

Benchmarking

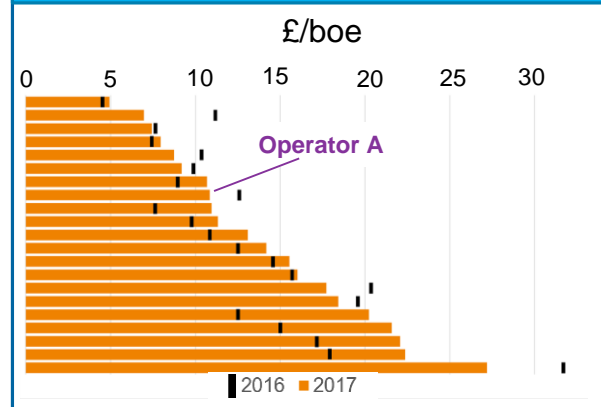


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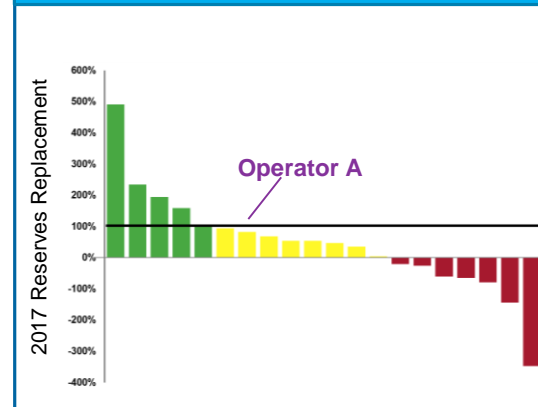
Production Efficiency (PE)



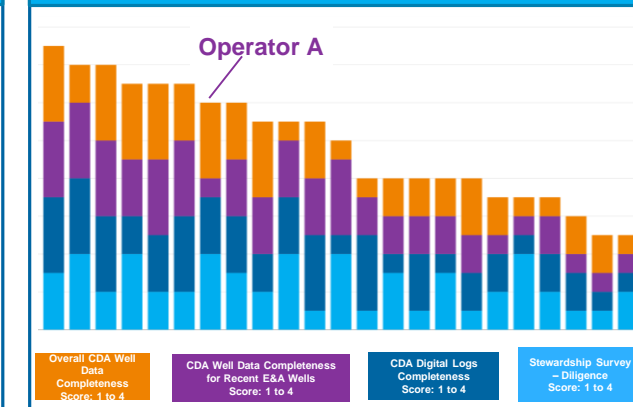
Unit Operating Cost (UOC)



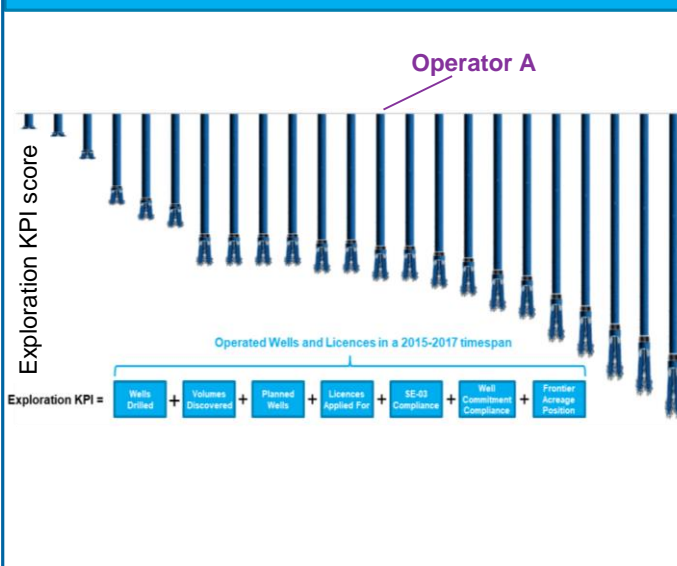
Reserves Replacement



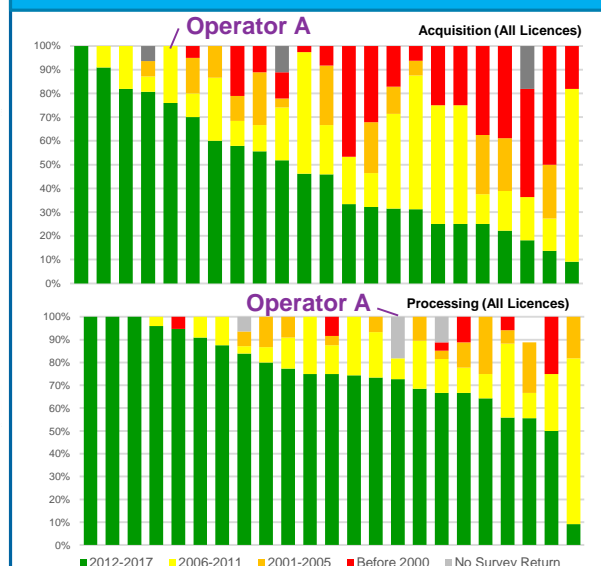
Wells Data Cleansing



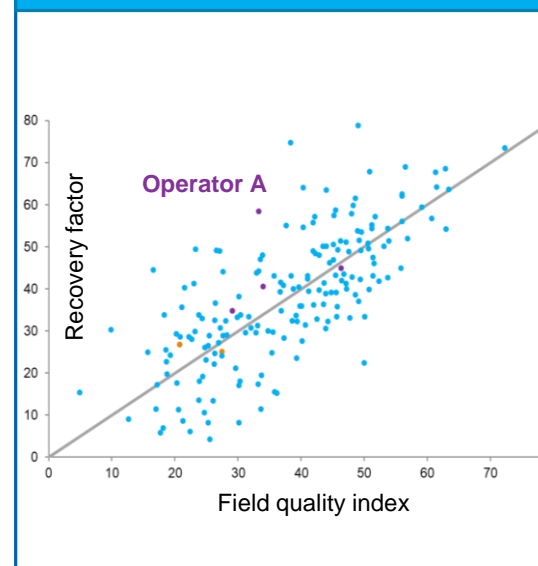
Exploration Performance



Seismic Compliance



Field Recovery Factor



Collaboration

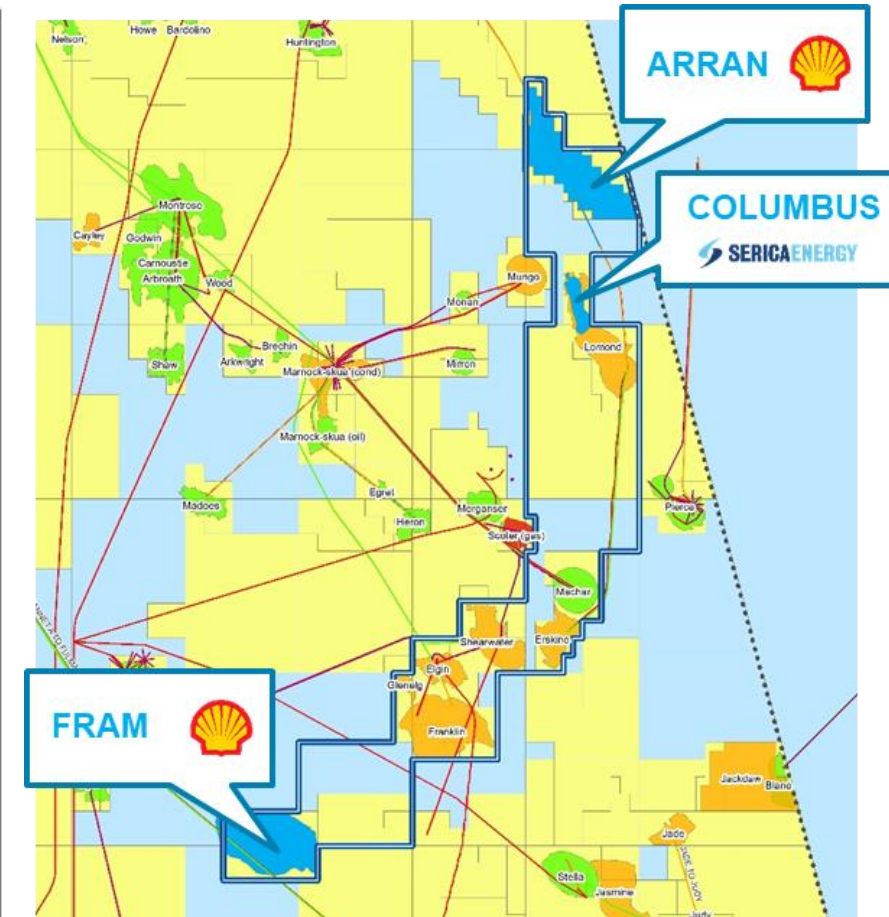
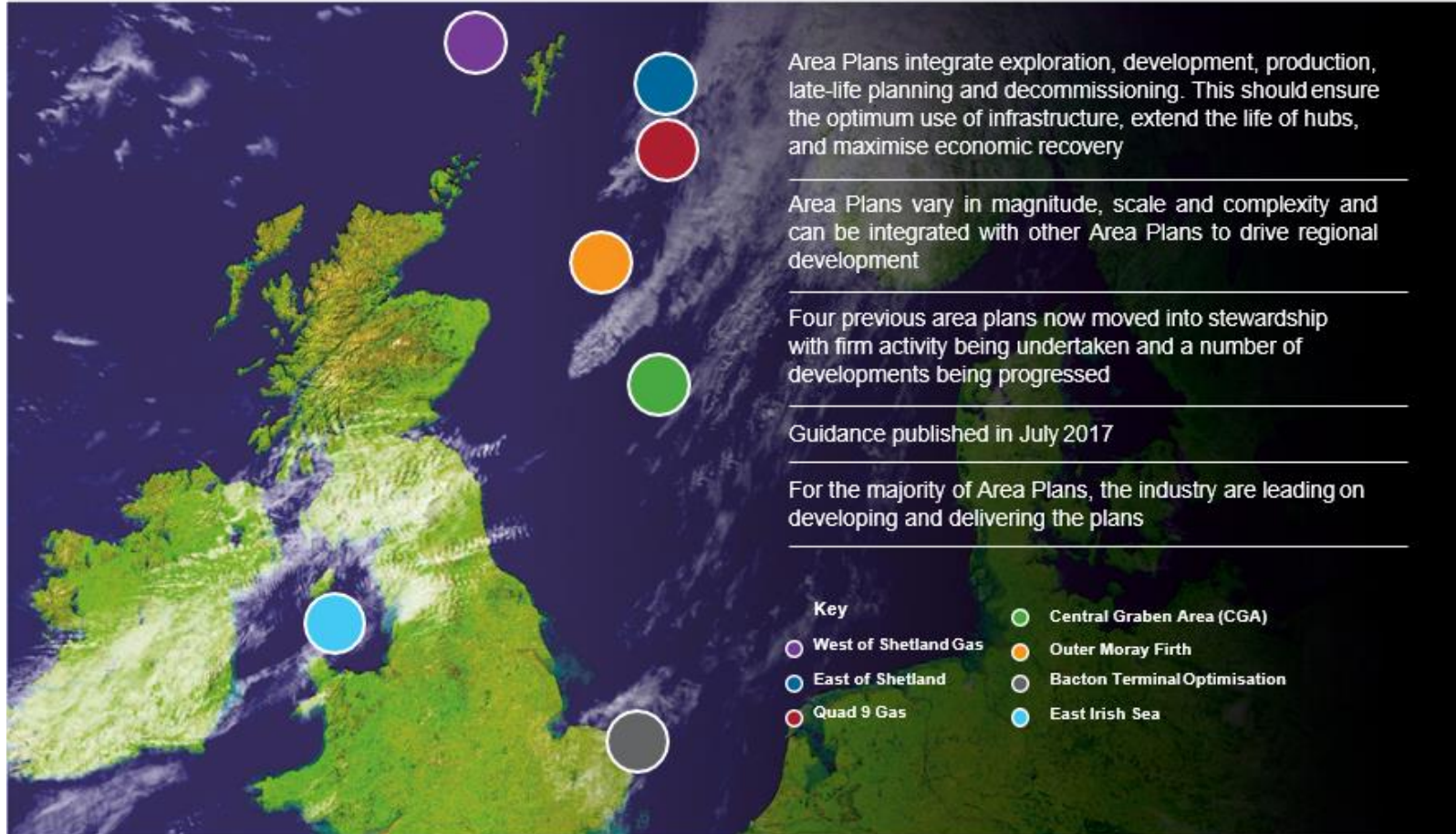


OGA now benchmarks 18 different metrics with 69 sub elements

Area plans



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Fram, Arran & Columbus part of Central Graben area plan delivering an additional 62mmboe

Technology



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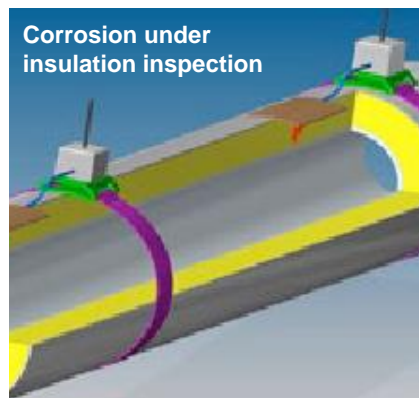
Existing assets



Inspection drones



Thermite P&A



Corrosion under insulation inspection



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£180m
government funding



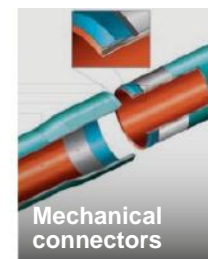
New developments

Tie back of the future

System simplification

Plug-n-play

Re-usable



Mechanical connectors



Composite spoolable

Innovative standalone facilities

Low Capex / Low Opex

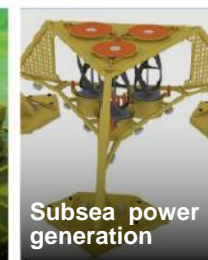
Re-deployable (multi-use)



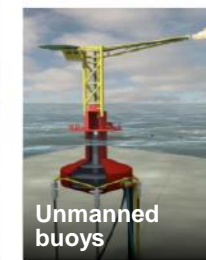
Low cost, reusable platforms



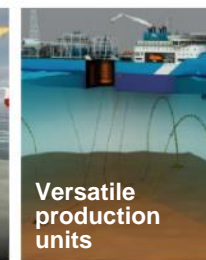
Subsea Chemical injection



Subsea power generation



Unmanned buoys



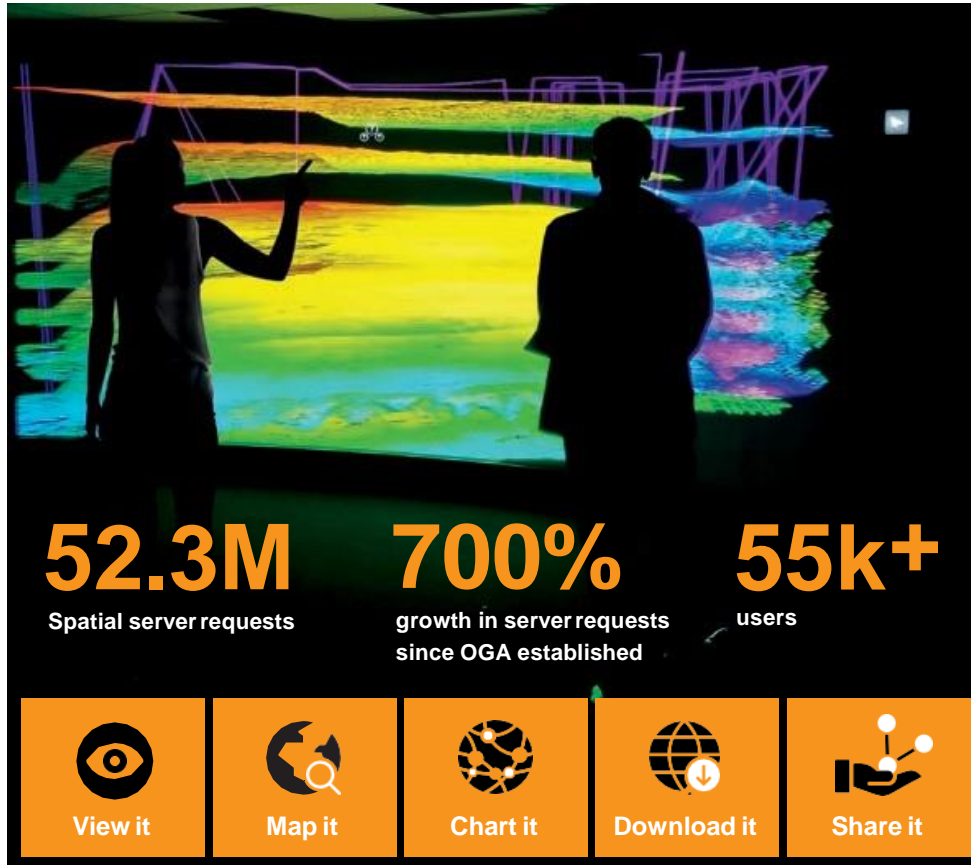
Versatile production units

MER UK needs to adopt best-in-class, innovative technologies

Information Management



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National Data Repository (NDR)

Launches early 2019

Backed by industry, supported by regulations

Will enhance collaboration and preserve data as a strategic national asset

Huge value from access to timely, transparent petroleum data

Will create the conditions to drive data driven investment, analysis and technologies such as AI and machine learning

OGA provides access to comprehensive, high quality data to be used in an innovative way

Revitalizing exploration



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Lots to play for:

10-20bnboe
remaining

5.4bnboe
Reserves (2P)

7.5bnboe
Resources (2C)

4.1bnboe
Prospective (mapped
leads/prospects)

11.1bnboe (mean)
Prospective resources (no
mapped leads)

30th round

Mature regions

229
blocks

9
3D seismic
commitments

8
8 firm well
commitments

61
companies

14 Licences straight
to second term
(development)

123
licences

Supported by openly available:



Data packs on
undeveloped discoveries
and technical montages

Impressive
diversity
of
applicants

New plays,
new
prospects,
expect
activity soon

Encouraging
for
unlocking
small pools

31st round

High-impact frontier regions

1779 blocks
370,000 km²
of open acreage across:

West of Scotland
East Shetland Platform
Mid North Sea High
South West Britain
Parts of the English Channel

Supported by openly available:



New and reprocessed government-
funded seismic



Datasets, analyses and reports



Regional geological maps

Acreage available which
has **not been explored** in
15-20 years

Supplementing Round Q1 2019
for Great Buchan Area Plan
targeting **extra 300MMboe**

32nd round

Mature regions



£5mm UK Government funding
for rock physics analysis and a
petroleum systems database

Proposed Future Licensing Plan

	2018	2019	2020	2021
31 st	Frontier Areas 			
32 nd	Mature Areas 			
33 rd	Frontier Areas 			

Annual rounds alternating between frontier and mature areas

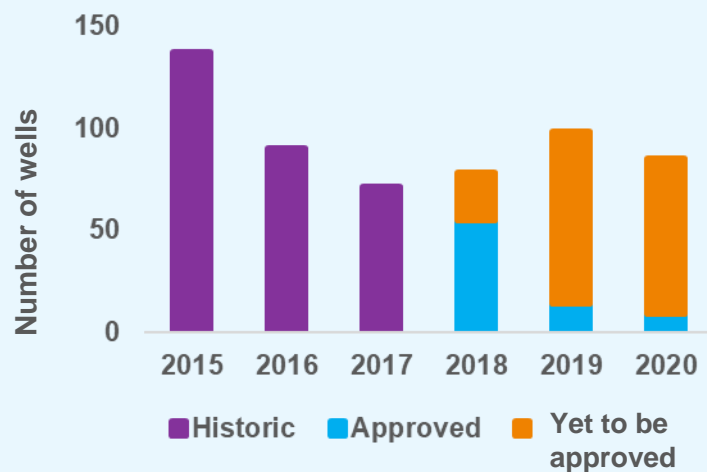
Significant changes to licensing round approach and availability of data but well count too low

Well activity

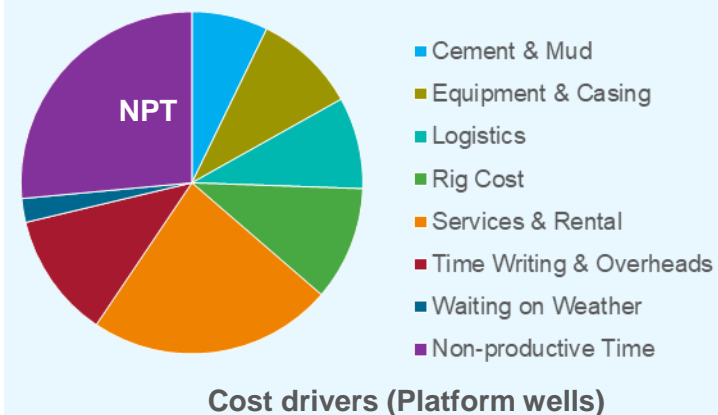


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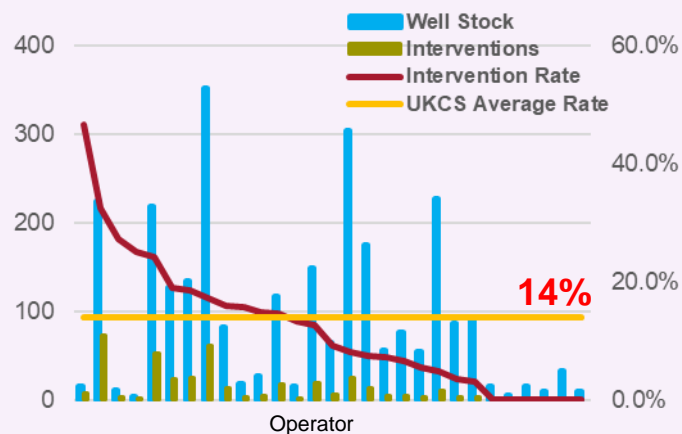
Development well outlook



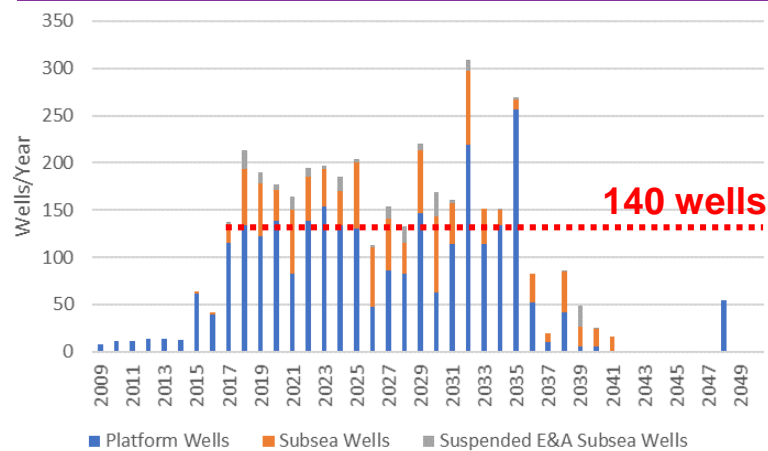
Efficiency improvements required



Intervention rate



Annual well abandonment



Need for additional cost effective new wells, improved base management & P&A planning

Conclusions



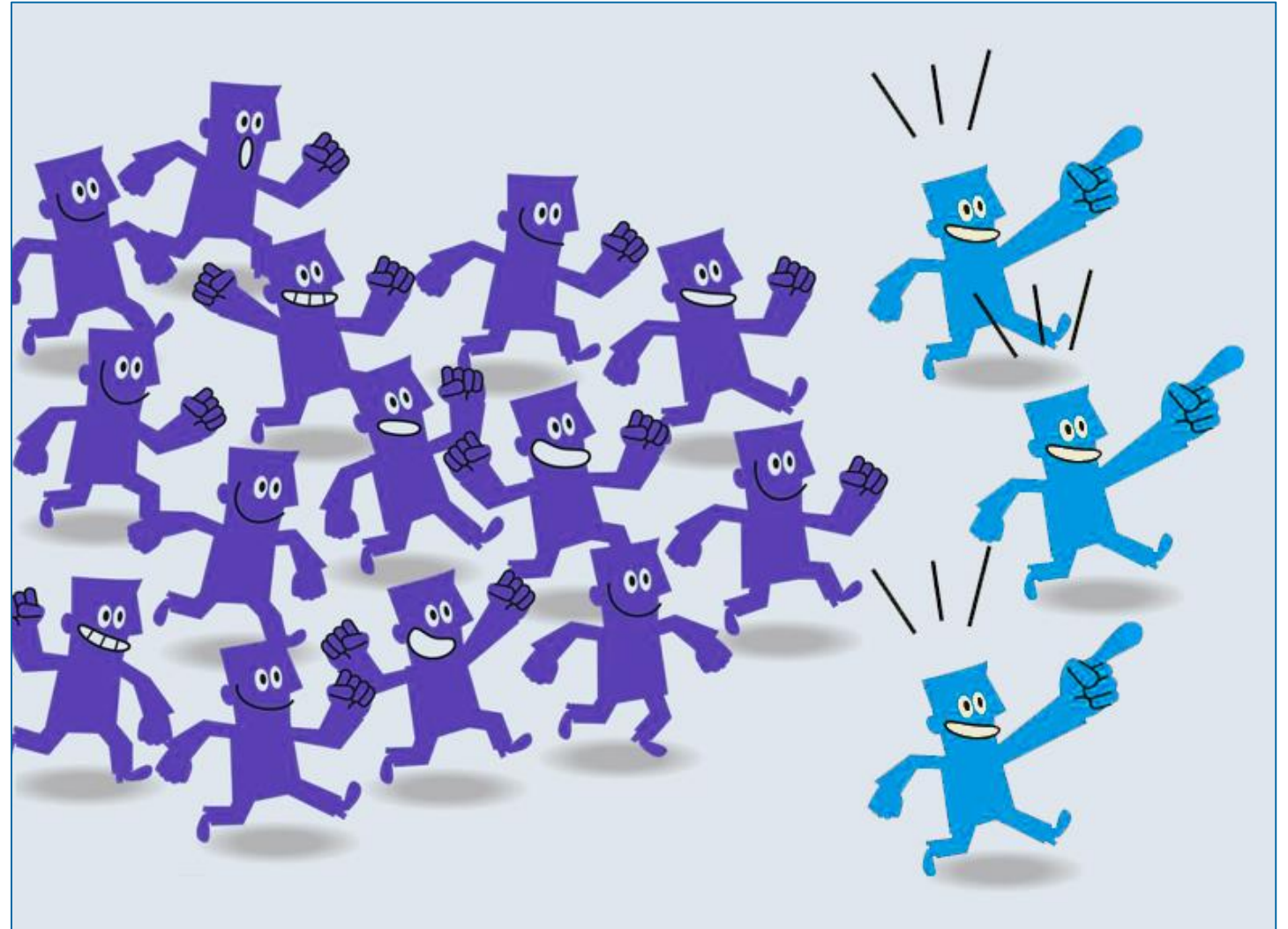
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Huge value added
through tripartite
approach

Significant improvement in
industry performance

Investor confidence in UKCS as
a sector which generates value

Industry needs to invest in more
drilling and well management



Collaborative and focussed leadership is vital for success