



# Our ambition for technology on the UKCS

September 2019





We're operating in a dynamic, rapidly changing environment. Technology is transforming our lives, our homes and our businesses.

## Introduction

**Technology will be essential to deliver a net zero carbon economy and securing the energy our homes and businesses need from the UK Continental Shelf (UKCS).**

The impact of this transition is far reaching across every part of society. Not least in the energy sector, and particularly in the oil and gas industry.

This has brought a new focus and energy to the work of the Technology Leadership Board (TLB) and for companies operating on the UKCS.

That's why we've created the TLB strategy for the UKCS, which identifies the key opportunities and challenges for the future.

To deliver this strategy, we have worked with the Maximising Economic Recovery UK (MER UK) Taskforces to identify demand and provide strategic direction.

We have created clear priorities and are connecting industry, regulators, academia and technology delivery organisations to develop and deploy exciting new solutions.

We are also encouraging the sharing of knowledge, expertise and best practice – listening, supporting and communicating.

The success of our work is built on strong collaboration with the Oil and Gas Authority (OGA), the MER UK Forum and the Oil & Gas Technology Centre (OGTC) – key partners in our strategy.

Our ambition is for the UK offshore oil and gas industry, the most technologically advanced in the world, delivering safe and secure energy, increasing exports and contributing to the creation of net zero economy.

We invite you to work with us and play an important role in helping deliver a technology-enabled future.

**Bill Dunnett**

Co-Chair, The Technology Leadership Board



## Technology Leadership Board: who we are



Bill Dunnett, Co-Chair

Repsol Sinopec UK

A chartered engineer with more than 30 years' experience in the international Oil & Gas Industry, Bill is currently CEO of Repsol Sinopec Resources UK as well as Co-Chair of the Technology Leadership Board.



Carlo Procaccini, Co-Chair

The Oil & Gas Authority

A chartered petroleum engineer with over 20 years' experience in the Oil & Gas Industry, Carlo is currently Head of Technology at the Oil & Gas Authority as well as Co-Chair of the Technology Leadership Board.



Derek Allan

Innovate UK



François Berson

Total UK



Peter Blake

Chevron



Melfort Campbell

IMES Group



Colette Cohen

The Oil & Gas Technology Centre



Marianne Eide

Shell



Peter Miller

BP



Angus Murray

TAQA



Shaun Poll

Worley



David Rennie

Scottish Enterprise



Paul White

Baker Hughes GE

## Our ambition

**Make the UK offshore oil and gas industry the most technologically advanced in the world, delivering safe and secure energy, increasing exports and helping deliver net zero.**

### Right now this means:

Focusing on current technology challenges

Encouraging technology take up and deployment

Priming supply chain investment

Articulating technology grand challenges

Promoting digitalisation

Preparing for net zero carbon operations

### Over the next 3-5 years this means:

Creating the right culture and behaviour

Tackling strategic challenges and opportunities

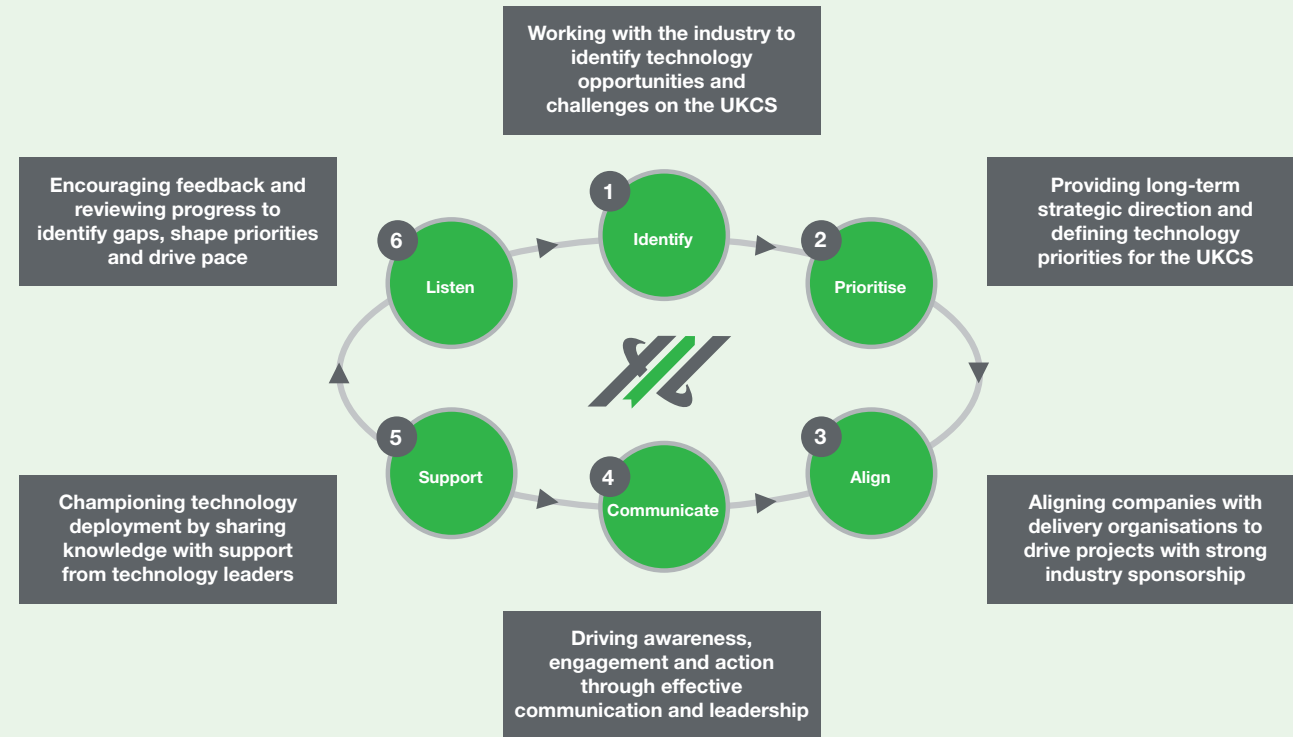
Progressing net zero carbon operations

Supporting the growth of carbon capture

Supporting hydrogen production capability

Supporting infrastructure reuse and repurposing

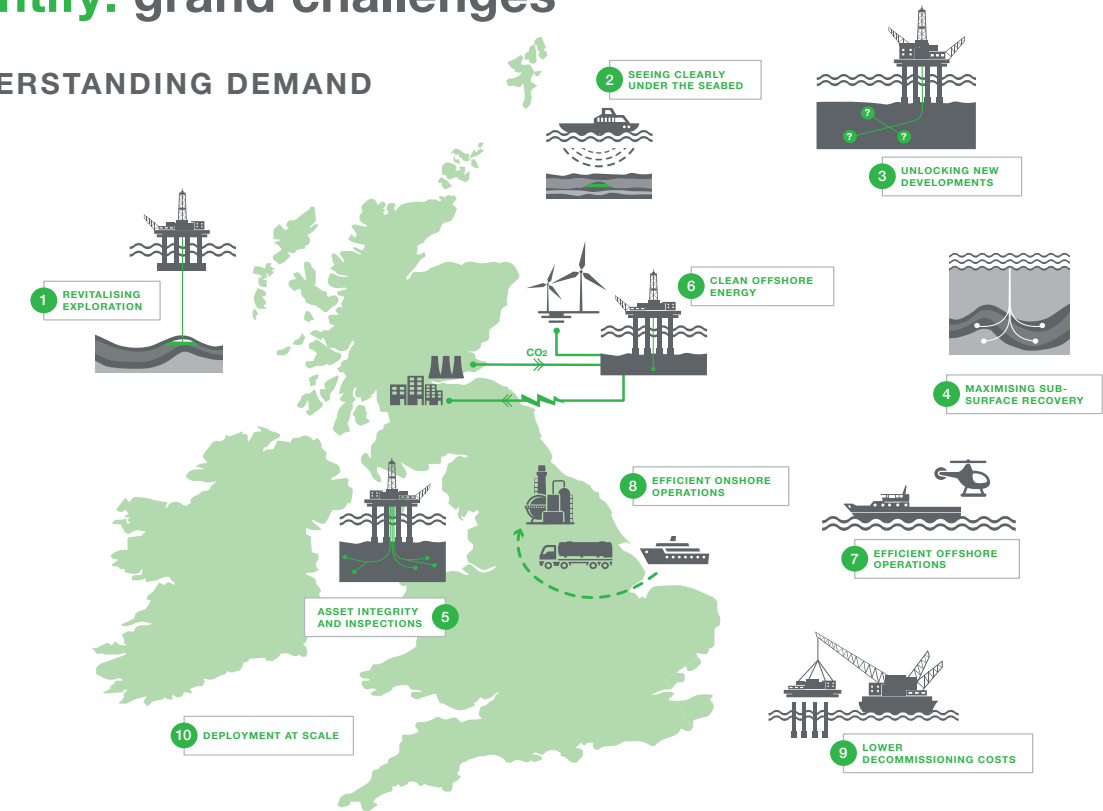
## Our strategy



We understand technology demand and translate this into strategic direction

## Identify: grand challenges

### UNDERSTANDING DEMAND


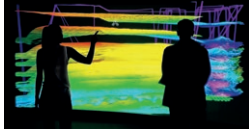


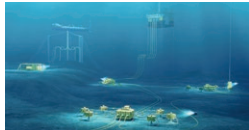




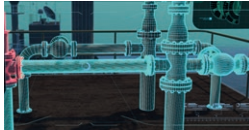


We work with companies to identify technology opportunities and challenges on the UKCS

# Prioritise: strategy and technology priorities

## FOCUS INDUSTRY ON COMMON PRIORITIES



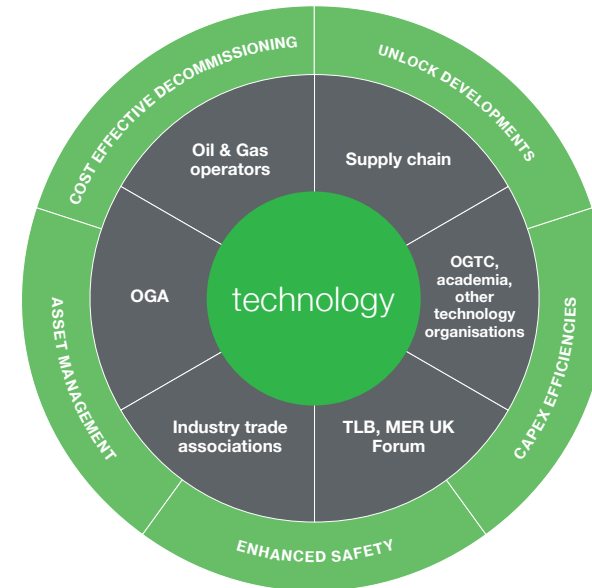
Focus Area	Technology Priorities: Short-term (2019-2021)				Technology Priorities: Medium-term (2022-2024)				
Exploration		Automated pay-zone identification		Industry data cleansing		Cost effective full azimuth ocean bottom seismic acquisition		Reduce seismic processing timelines from months to days	
New Developments		Efficient subsea developments		Maximising subsurface recovery		Facilities of the future		Helping deliver Net Zero	
Asset Stewardship		Non-intrusive inspection technology for blind spots		Data management for asset integrity		Real time operational data platform		Automation to improve viability of new developments and extend field life	
Decommissioning		Alternative plugging and abandonment barriers		Technologies for late life and decommissioning		Innovative removal technologies and surgical small piece removal of facilities		Automated data gathering for residual liability management	



## Align: companies and technology organisations

### STRONG TECHNOLOGY AND INNOVATION ECOSYSTEM

- Clear demand from industry aligned to technology ambition
- Co-ordinated strategy focused on deployment
- Strong engagement with the supply chain and technology organisations
- Encouraging the right culture and behaviours



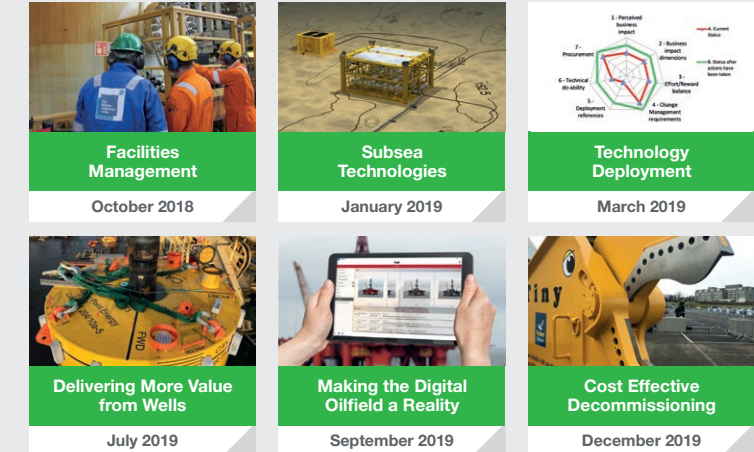
## Communicate: create awareness and action

### UKCS TECHNOLOGY NETWORK

- Sharing best practice for technology adoption and development
- Aligning operators and supply chain companies to deploy proven technology
- Encouraging collaboration on research, development and field trials



#### Key Themes and Topics



Find out more at: [www.ogauthority.co.uk/technology/ukcs-technology-network](http://www.ogauthority.co.uk/technology/ukcs-technology-network)

# Support: share knowledge and expertise

## LEADERSHIP FROM INDUSTRY

### Role of Technology Leaders

- Champion technology development
- Lead field trials and first deployment
- Share and promote best practice
- Highlight the benefits of technologies
- Communicate the outcomes

Want to be a technology leader?  
Get in touch



Ongoing discussions with potential Technology Leaders					
Exploration	• Equinor • Apache • BP	• Total • Nexen • Shell	Wells Delivery	• Apache • Chevron • Conoco	• Equinor • Enquest
Subsea Systems	• Chevron • Total • Shell	• Repsol • Premier	Topsides	• Apache • Equinor • Total	• Chevron • Dana
Reservoir Management	• Shell • Nexen • Total	• BP • Apache	Facilities Management	• Repsol • Apache • Chevron	• Shell • Total • CATS
P&A	• Shell • Conoco • Fairfield	• Perenco • Spirit	Facilities Decom	• CNR • Shell • Perenco	• TAQA • Repsol

# Listen: monitor progress and pace

## ENCOURAGING FEEDBACK

- Working with the OGA to track progress
- Tracking delivery in line with the OGA's stewardship expectations
- Reviewing performance and pace at the MER UK Forum
- Regularly reviewing and refining our strategic priorities

New Stewardship Expectation: Technology

Operators are expected to select existing technologies including from the OGA Technology Insights list to deploy on their assets and provide best fit to the specific asset opportunities

Tools and Support



OGA Technology Portal



OGA Technology Team



UKCS Technology Network



OGTC, TLB and other expert networks

# Our programme

## KEY ACTIVITIES AND MILESTONES



Activities	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020
Technology Leaders	<div>Recruit leaders</div>			Encourage uptake of priority technologies	
Information Sharing	Track development of priority technologies				
	Share deployment case studies and collaboration opportunities				
Cross Industry Engagement	UKCS Tech Network The Digital Oilfield	UKCS Tech Network Decommissioning	UKCS Tech Network TBC	UKCS Tech Network TBC	UKCS Tech Network TBC
	<div>Offshore Energy</div> <div>OGUK Awards</div>	OGUK Exploration Conference	All Energy Conference	ENGenious Conference	PETEX Conference
	Offshore Decom Conference		DEVEX Conference		
Governance		MER UK Forum		MER UK Forum	MER UK Forum
	TLB Meeting	TLB Meeting	TLB Meeting	TLB Meeting	TLB Meeting





# Get involved: talk to us

## How to contact us



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