

A man and a woman are in a server room. The man, with a beard and wearing a grey sweater over a white shirt, is holding a laptop. The woman, wearing a white shirt and a blue lanyard, is pointing at the laptop screen. They are both looking intently at the screen. The background shows rows of server racks with blue and white lights.

# Your Innovation Partner

The logo consists of a stylized teal starburst or asterisk shape with eight points.

The  
Oil & Gas  
Technology  
Centre

Your Innovation Partner

Roadmap and Data  
Offshore Europe 2019

# Solution Centres



## Driving



Digital Transformation	Subsurface	Decom	Wells	Marginal Developments	Asset Integrity	Net Zero
10% increase in production efficiency	MER UK up to 20bn barrels	35% cost reduction	50% lower well construction costs	50% under development	50% cost reduction	Net Zero Carbon Basin
Digitally enabled supply chain	Discover more	Late life management	Optimise design	Tieback of the Future	Risk based inspection & data analytics	Decarbonise offshore Operations
Digital & data architecture	Develop more	Post COP OPEX reduction	Flawless delivery	Facility of the Future	Detection & condition based monitoring	Integrating Infrastructure & Networks
Smart facilities	Recover more	Innovative removal	Maximise production	Integrated energy	Enhanced inspection techniques	
Digitally enabled worker		Optimise abandonment	Optimise abandonment		Repair & mitigation solutions	
Production optimisation						

Delivering solutions to industry challenges

# Roadmaps

## Field Trials

Planned

9

Complete

3

## Project Investment

OGTC

£6.1m

INDUSTRY

£9.2m

## Total No. of Projects

Active

16

Complete

6



Novellus Solutions -  
Confidus Safety Report  
ing System



Envio - Equipment  
location monitoring  
solution



Eserve - Data scanning  
and share software  
platform



Girling McIntosh -Web  
based well risk  
modelling software



Intelligent Plant - SEER  
- [Alarm](#) RCA Application



Hardware and software  
platform for wearable  
technologies



Projecting Success  
Project Analytics Data  
Trust



Digital Catapult –  
Blockchain Study and  
Use Case Identification



Osokey Seismic in the  
Cloud



Wallet Services -  
Blockchain  
Manufacturing Record  
Book



R2S - Visual Positioning  
System



Seabuo Global –  
Subsea Construction  
Auditing Platform



UK Hub - Shared  
supplier information  
repository for the UK Oil  
and Gas Industry



Transforming oilfield  
equipment  
performance in mature  
basins



FuturaAI – Digital Twin  
AI Predictive System



PlanSea Solutions -  
UKCS Offshore  
Logistics Optimisation



Provide a solution to  
gathering real time data  
and event reporting



Intelligent Plant - Well  
Intelligence Application



Cults Telecom Services  
Ltd - LoRaWAN for  
Offshore



Marine Logistics Vessel  
Optimisation



Opex - Asset  
Healthcare and  
Diligence Assessment  
using Advanced  
Analytics



Opex - Using predictive  
technology and  
behavioural  
diagnostics to identify  
human risk

SOLUTION CENTRE  
**Digital  
Transformation**

Completed  
Projects

# OGTC Project Data analytics

## Data Trust - Study

The ability to begin to avoid the avoidable and improve certainty of outcomes



Oil & Gas – Create a data trust

Create a data trust that enables the industry to be comfortable to share project data. Working on the legal and governance framework - based on the ODI work



Populate the data trust

Populate the project analytics data trust to enable organisations working to pool data within a secure environment, to test the technical capability



Use analytics to move the dial

The project data trust has the potential to drive £millions in value across the Industry through improved ability to predict project outcomes and prioritise interventions. The data provides the 'outside view' that has the potential to transform how we deliver projects and initiate a chain reaction into other sectors

We need companies to provide expertise and data

# OGTC DLT/Blockchain for UKCS

## Consortium approach to identifying use cases for UKCS



DLT/Blockchain –  
Transformative technology or  
hype?

Workshop held with the support of the Digital Catapult and Industry to identify top potential use cases for UK. Identified 3 Use cases.



Connect and further develop  
use cases with Industry

Workshop scheduled for November to identify detailed scopes on 3 Use case  
People Tracking, Asset Tracking & tokenising Oil and Gas



Support the tech community to  
develop working PoC's

Develop through Industry & OGTC funding working PoC's examples for 1 or all of the use cases.

**We need companies to commit to being part of the consortium**

# OGTC UK Hub Project

## Delivers important foundation of a digitally enabled supply chain



An industry Hub – A UK digital data exchange

Digitally transform the procurement process and become the single, online source of technical equipment information for the UK oil and gas industry



Demonstrates the ability to capture data from more than one operator

infrastructure recreated in a digital environment, creating a 3D representation of all facilities including topsides, floating and subsea facilities as well as incorporating seabed bathymetry



A projects that enables a potential future

The UKHub, has the ability to drive £millions in value across the Industry through improved efficiency in procurement, inventory management and support the circular economy

# OGTC Digital North Sea

## Delivers important foundation of a potentially fully data enabled Smart Basin



Digital North Sea – An innovative digital platform

Organises and brings together information that can lead to the life extension of installations in the North Sea but also collates data that assists in the planning process for decommissioning



Connect and support the Industry

Support Industry purchase and suppliers collaborate around centralised quality data to reduce duplication and rework



A project that moves the dial

Potential to extend to the entire North Sea where scenario planning algorithms could be overlaid in future and the value of bundling scopes, across multiple contractors and operators, can be explored and simulated

**Industry opportunity – Develop to a Smart Basin**

A woman with glasses is pointing at a screen displaying various data visualizations, including bar charts and circular progress indicators. The background is a blurred image of a man looking at a screen.

# Work With us



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## Together we can transform the future