

Our Goals



Unlock

Unlock the full potential of the UK Continental Shelf

Anchor

Anchor the supply chain in North East Scotland

Inspire

Inspire a culture of innovation and transformation



Technology Vision



Fix today



Data access



Production optimisation



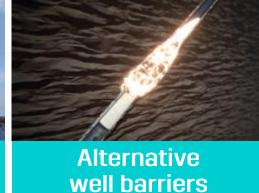
Efficient decommissioning



Asset inspection



Revitalise exploration



Maximise recovery



Tieback of the Future



Automation

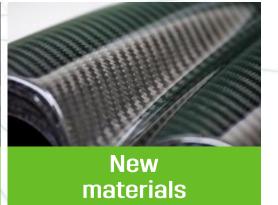




Integrated energy



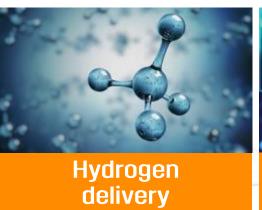
operations



Transform tomorrow

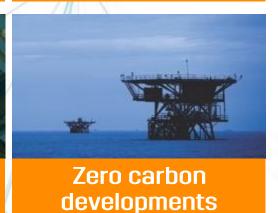




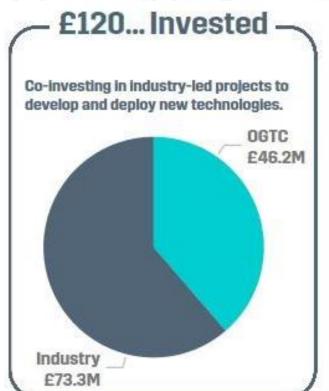


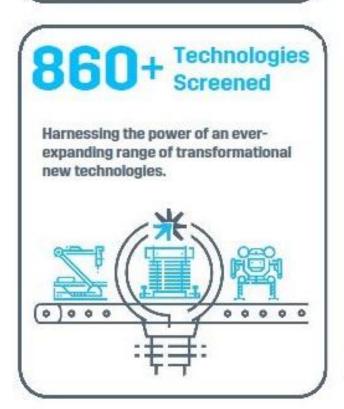


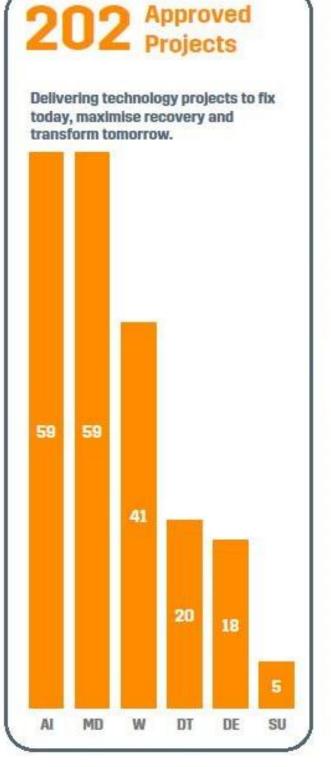


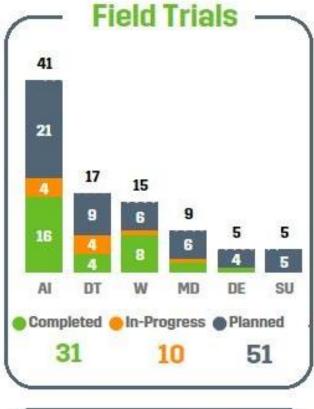


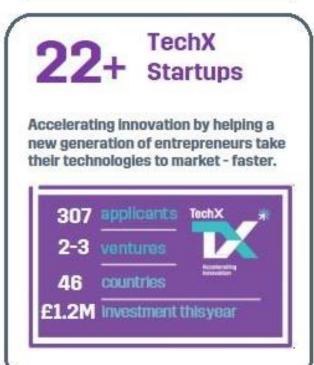
Our Track Record

















Solution Centres





•/		
	II	

10% increase in production efficiency

Digitally enabled supply chain

Digital & data architecture

Smart facilities

Digitally enabled worker

Production optimisation

Digital

Subsurface

MER UK up to 20bn barrels

Discover more

Develop more

Recover more

Decom

35% cost reduction

Late life management

Post COP OPEX reduction

Innovative removal

Optimise abandonment

Wells

50% lower well construction costs

Optimise design

Flawless delivery

Maximise production

Optimise abandonment

Marginal Developments

50% under development

Tieback of the Future

Facility of the Future

Integrated energy

Asset Integrity

50% cost reduction

Risk based inspection & data analytics

Detection & condition based monitoring

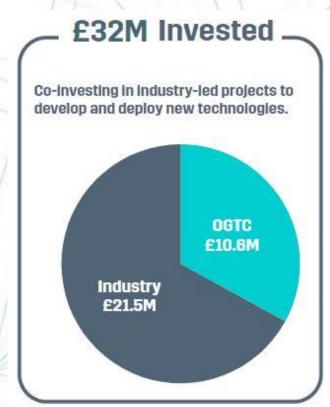
Enhanced inspection techniques

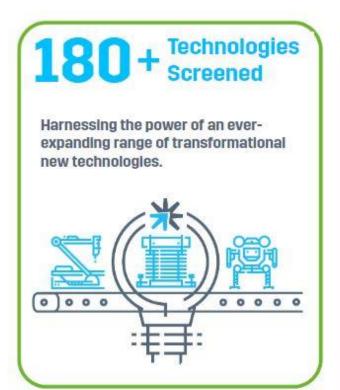
Repair & mitigation solutions

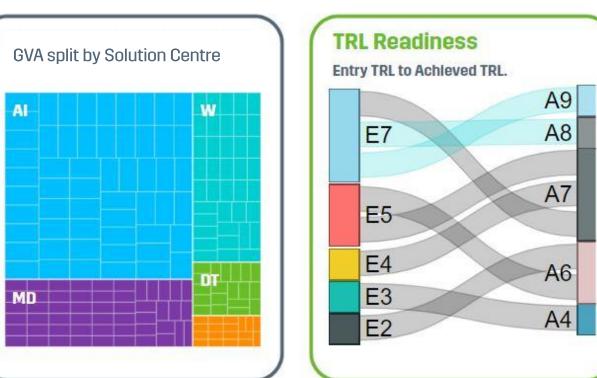


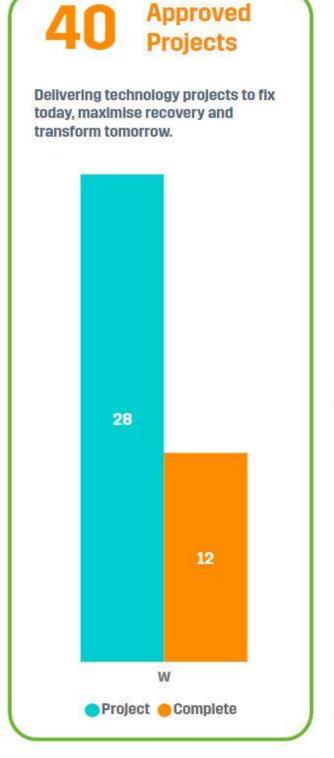
Wells Performance Dashboard



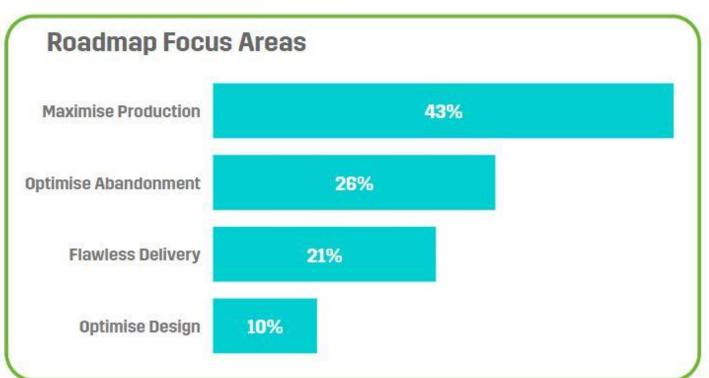












Maximise Production - Project Overview





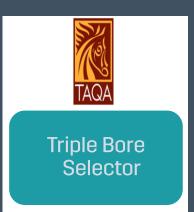












Directed Projects with industry partners



Downhole Energy Ltd – Additive Manufacturing Feasibility Study

UoA – Ultrasound cleaning of the wellbore

OGTC Portfolio Projects – implemented through open call process



Expro North Sea

Development of a wireless downhole safety valve.



Oilectricity

Development of a new energy harvesting system based on nanomaterials.



Well-sense

One trip disposable tractor for deploying fibre optic cables into horizontal wells.



Steer Energy

Downhole tubing repair from fluid deployed both inside and out.



Aubin

Scale induced water shut-off for zonal isolation.

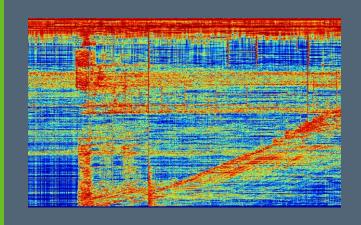
Pending projects selected through "Restoring Shut-in Wells" – 3rd Call for Ideas

SolaSense Technology Spotlight



Technology ready for field trial and looking for partners





SolaSense DFOS

Rugged optical interrogation units, fibreoptic data processing and viewing software

Delivering low costs portable, easy to use and effective surveillance technology to safeguard or reinstate production



Potential to recover >£105m annual production revenue

Safeguard and improve production Restoring shut in wells

Affordable and effective surveillance technologies can have a significant impact if applied to a portion of the following:

- 30+MMboe annual losses
- Re-instatement of some of the 600 shut-in wells,
- Improvement in the safeguarded/re-instated production.

An estimated 1% improvement in these areas alone would provide the UKCS with an additional revenue of £105m+ per year at today's oil price (assumes shut-in wells have 300boe/d potential).

What's Coming Up?



September

- OGTC Presence at Offshore Europe
 - OGTC Main Stand
 - TechX at StartUp Village
 - Decom Zone
- Alternative Well P&A
 Barrier Collaboration
 Group
 - Multi-operator experience sharing

October

- Wells MembersMeeting
 - Update on project activity
 - New technology "sparks"
 - Developer presentations / Demos
 - Workshop / break out sessions

November / December

- Digital BasinWorkshop
 - UKCS Basin Insights to support New Entrants
 - Digital / Subsurface and Wells Solution Centres
 - OGTC / OGA / OGUK collaborative approach



The Oil & Gas Technology Centre

Your Innovation Partner

One-to-One Engagement

We are here to support you and we welcome the opportunity to come and listen to your issues - what are your key technology needs?

Sarah Kirkwood

Project Engineer
Wells Solution Centre

Sarah.Kirkwood@theogtc.com