

The
OGTC

November 2016

Sandpit Session One

Corrosion Under Insulation (CUI)

The Oil & Gas Technology Centre

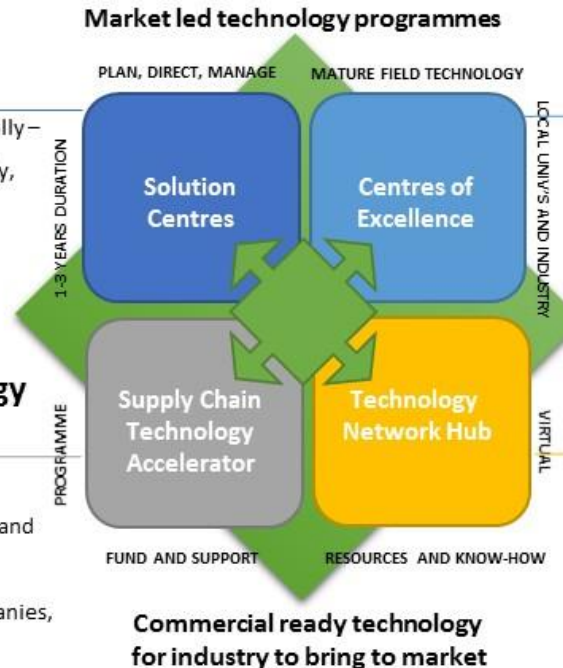
The “go to” global centre for solving offshore mature basin, subsea and decommissioning technology challenges

Solution Centres working on mature field challenges

- Take forward TLB MER theme led programmes initially – well construction, small pools, mature asset integrity, decommissioning
- Use adopt, adapt and develop principle
- Support Operators developing their specific field technology plans & deployment

Building momentum and technology in the supply chain

- Stimulate and accelerate supply chain innovation
- Facilitate a substantial increase in supply chain demand led R&D into mature basin needs
- Facilitate working with Operators and service companies, arranging test and deployment opportunities
- Provision of incubator facilities



Globally recognised centres of excellence

- In-house capability team to work with the 2 local universities and industry on the development of globally recognised centres of excellence (avoiding duplication)
- Scope including mature basin Subsea, Robotics, Big Data, Subsea Flow Assurance, Composites, EOR, Decommissioning...

The mature basin technology hub

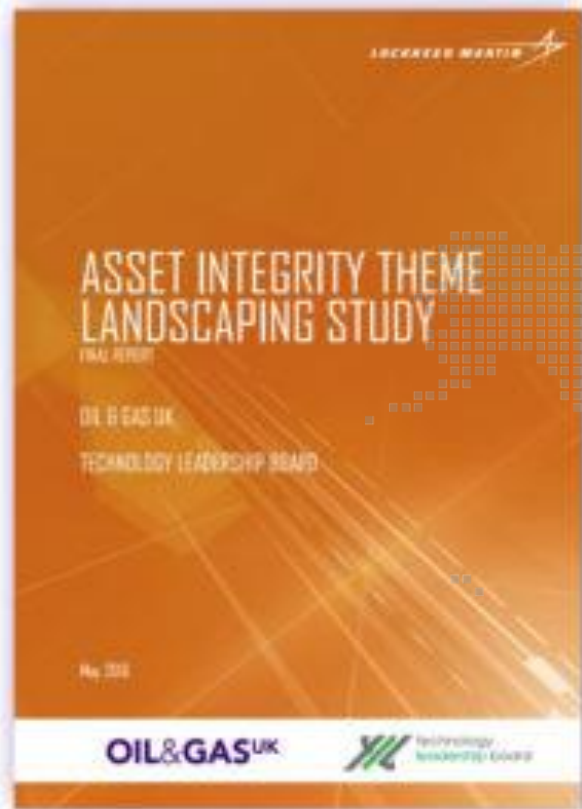
- Highly networked into other UK and global oil and gas CoEs and related disciplines
- Contribute significantly to Solution Centres and Accelerator projects

- Experienced management team, circa 30 staff – Technical, IP, Commercial, Legal, Marketing, HR and Finance
- £180m funding over 10 years; matched by private sector funds in later years, including in-kind contributions
- Facilities – laboratories, specialist plant and equipment, testing facilities and incubator space
- Clients – Operators and supply chain, including securing prominent industry anchor companies
- Where appropriate, facilitating financing and commercial agreements for collaborative technology projects

Key Initial OGTC Themes



Asset Integrity Solution Centre



One Centre – Two Themes

- **Corrosion Under Insulation**
- **Vessel Inspection**

Corrosion Under Insulation

Things to consider....

- **Difficult to detect and predict**
- **Long lengths of piping – different diameters & configurations**
- **Insulated vessels included in the challenge**
- **Access issues**
- **Insulation removal and re-installation costs**
- **Operational and process constraints**
- **Insulation is a visual and physical barrier**
- **The “ideal” environment – rapid corrosion rates**

What are the biggest challenges preventing innovative ideas and technologies to be considered and rapidly adopted?



What needs to be done
to overcome the
perceived barriers of
technology adoption?



What is the future of
asset integrity
management?

