

# Your Innovation Partner

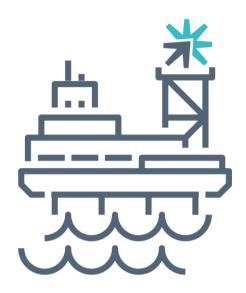


The Oil & Gas Technology Centre

**Your Innovation Partner** 

# Jan 2019

# Industry context





**1999 peak production** 5 million barrels per day

**2017 production** c.1.5 million barrels per day **44 billion barrels** since 1964 £330 billion in corporation tax

10-20 billion barrels potential remaining

Grow supply chain; double exports



Maximise Economic Recovery



## Every 1bn barrels produced generates £50bn of value for the economy





**300,000 jobs** in UK from oil and gas

Supply chain revenue of £30 billion per year

£420bn revenue

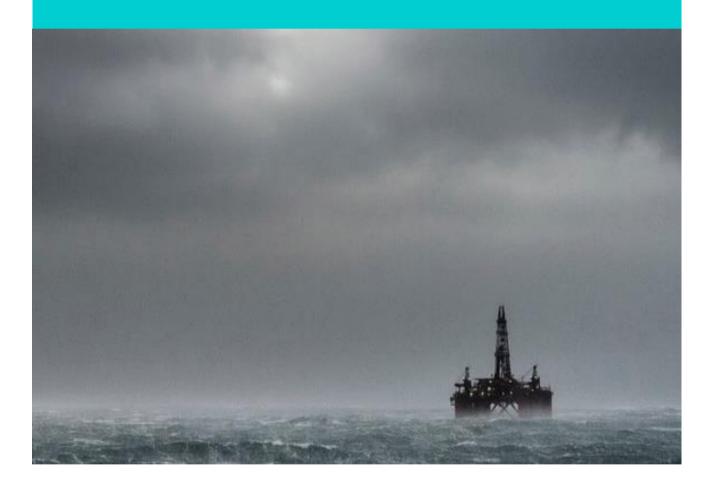
Overall prize



£920bn revenue

# **Creating value**

## Unlock the potential of the **UK Continental Shelf**



## Anchor the supply chain in North East Scotland

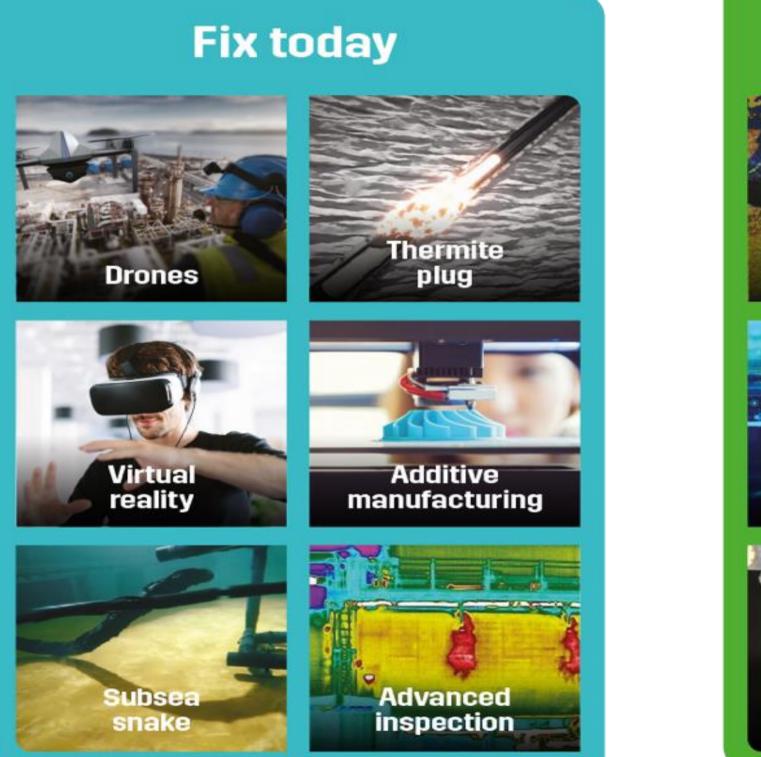


## **£180 million City Region Deal funding**

## Create a culture of innovation that attracts industry and academia



# Technology vision



### **Maximise recovery**









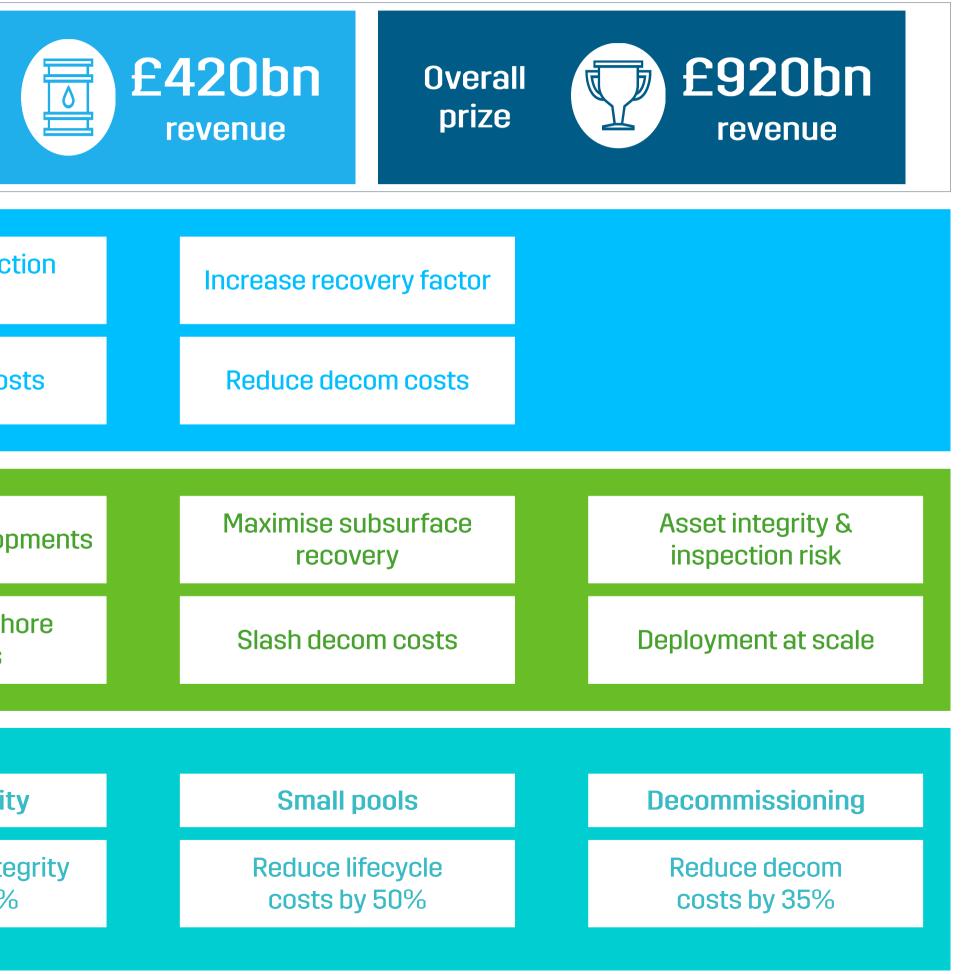
## Technology can transform the oil and gas industry for the low carbon future

### **Transform tomorrow**



# Roadmaps – aligning to deliver V2035

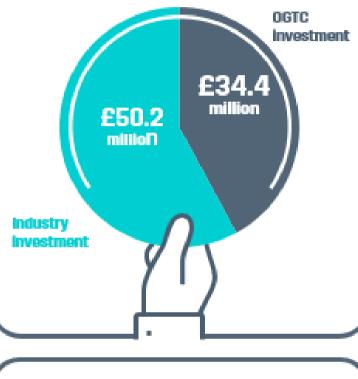
Vision	VISION 2035 UK oil and gas industry	Grow supply chain; double exports	£500bn revenue	Maximise Economic Recovery
V2035 Fargets	Deliver additional barrels Double service sector	Reduce opera		Increase product efficiency
B nges	share Revitalise exploration	Add recoverab	under the	Reduce well cos
TLB Challen	Clean offshore energy	Efficient of operati		Productive onsho operations
0GTC Targets	Digital transformation	Well	S	Asset integrity
	Improve production efficiency by 10%	Reduce costs by		Reduce asset inte costs by 50%



# Strong performance

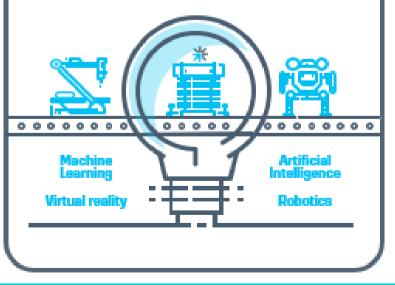
### £85m invested

Co-investing in industry-led projects to develop and deploy new technologies.

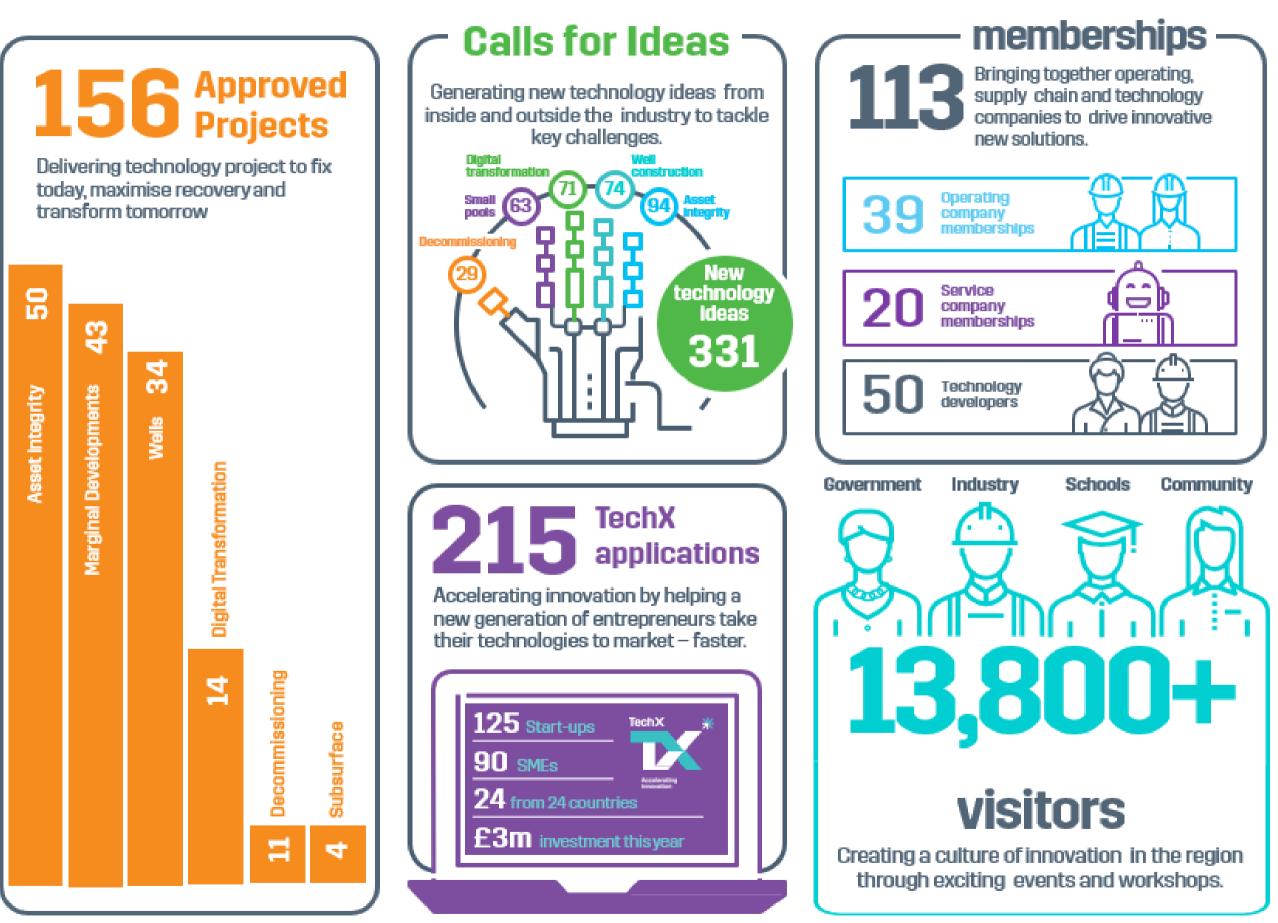


### **Technologies** screened

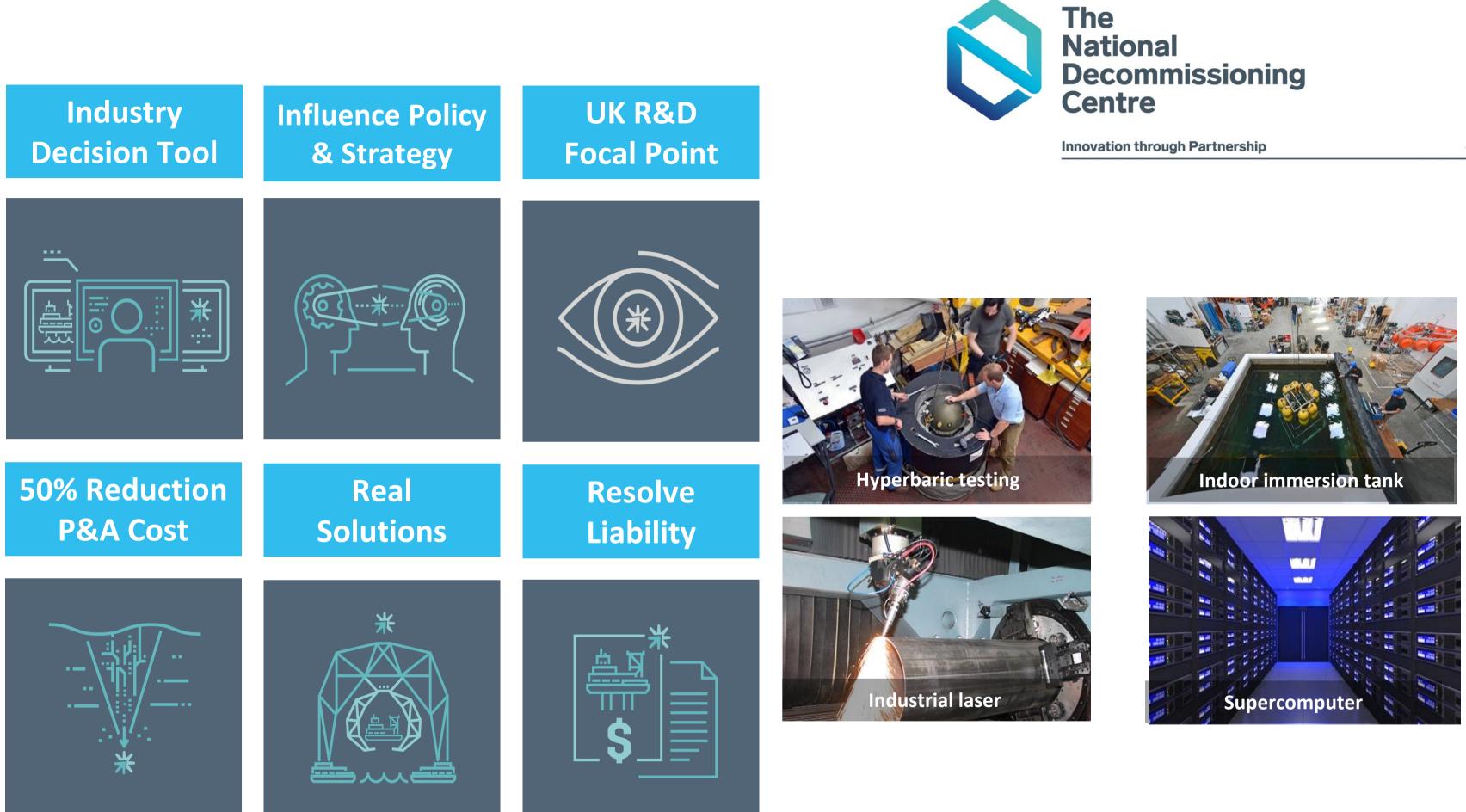
Harnessing the power of an everexpanding range of transformational new technologies.



In 2018 Working with industry partners to test and trial new technologies in an operational environment. Completed Planned Asset 9 24 integrity Marginal 2 Developments 6 Δ Wells 13 3 Digital Decommissioning Subsurface Π Π



## ...a positive start, still lots to do



## Enabling technology collaboration across the industry







## ukndc.com **#decomcentre**

# **National Subsea Centre**

Diverse industry participation

Strong R&D partnerships

### **High-quality** projects

Attract a diverse range of UK and international partner companies with the skills. expertise, projects and commitment to invest and participate

**Develop strong** partnerships with institutions, innovation centres and companies in the UK and internationally

Work in partnership with industry to create a balanced portfolio of demand-led projects across the technology readiness spectrum

### Engage widely and inform policy

Build strong stakeholder relationships and inform UK and international subsea policy

## Focused priorities and actions



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### Collaborative hub

### **RGU** research positioning

Create a multidisciplinary hub using state-of-theart technology to enable physical and virtual collaboration between organisations and sectors across the UK and internationally

Deliver a worldclass research programme with sustainable funding and maximise the impact of R&D investment with spinouts, PhDs, first jobs and graduate apprenticeships

# **TechX Overview**



**Ventures** 



- 3 challenge areas set by industry
- **Recruiting 30 scientists**
- 2-3 new tech companies March 2019
- Auto-enrolment in TechX Pioneers





**Pioneers** 

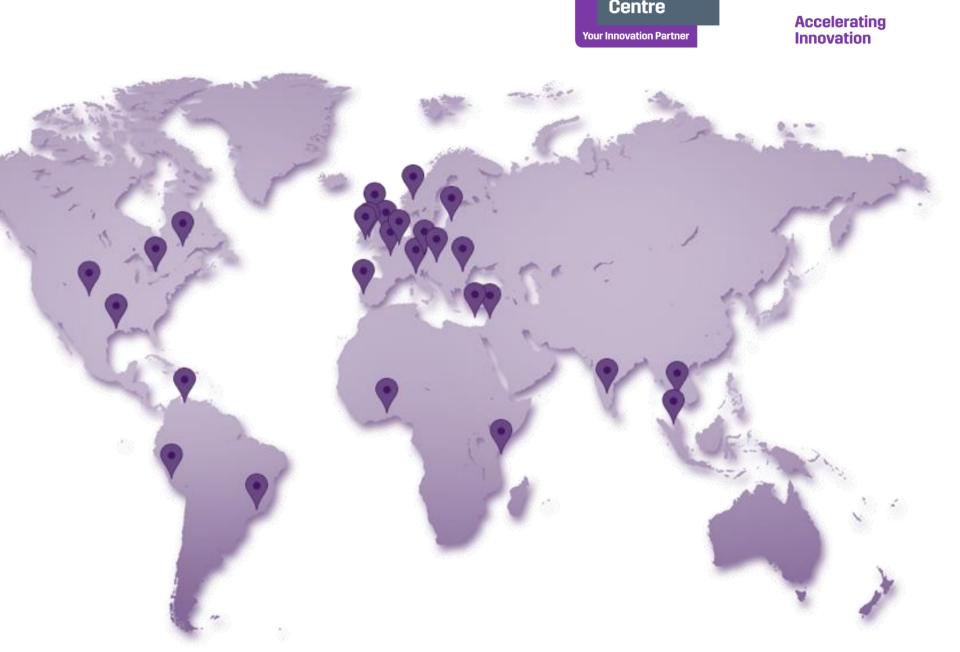
- Pioneer 1 4th June 21st September
- Transition into TechX+ Incubator for 12 months
- Official T1 Visa status with DIT
- Pioneer 2 applications 1st Oct 31s Jan 2019
- Roadshows UK (Nov) & US (Dec)
- Pioneer 2 13th May 2019 Aug 2019



- Supporting successful Tech from other industries
- Signposting/landscaping service
- No funding
- 2 projects in development

## Accelerating the future today

# 215 applications (125 Pioneer / 90 Market Entry) 24 different countries





# Our purpose

# Making sure the North East of Scotland remains a great place to live, work and invest