Introduction to the National Decommissioning Centre

Prof Richard Neilson – Centre Director
Our ambition

To be the global leader in research and development that transforms decommissioning and mature field management
Unique global hub

Connecting
Port clusters, R&D institutions and innovation centres across the UK and internationally

Multiplying
The capability of universities and other organisations, such as the UK Catapults

Developing
A world-class supply chain that delivers for the UK and internationally
Industry-led focus

Mature Basin Management
- Business models
- Long-term liability management
- Comparative assessment
- Basin wide simulation

Well Decommissioning
- Barrier verification
- Abandonment landscape
- Alternative barrier materials
- Designing for decommissioning

Late Life and Decommissioning
- Basin-wide decom
- Alternative removal
- Decision making
- Dismantling and in-situ decom
- Environmental science
PhD Research Programme

Decision Making in Decommissioning

- Scenario mapping, impact assessment and trade-off analysis
- Quantification of greenhouse gas emissions for decommissioning
- Social, economic and ecological network agent based modelling

- Engineering
- Biological Sciences
- Computing
- Biological Sciences
- Medicine
- Engineering
- Biological Sciences
- Computing
- Biological Sciences
- Law

Financial security in relation to decommissioning liabilities
Decommissioning of bundles
Cleaning & Waste Disposal
Elimination of Marine Growth
Next generation DNA application to decommissioning
Cleaning & Waste Disposal
Elimination of Marine Growth
Next generation DNA application to decommissioning
Quantification of greenhouse gas emissions for decommissioning
Social, economic and ecological network agent based modelling
Biological Sciences
Engineering
Computing
Biological Sciences
Medicine
Engineering
Biological Sciences
Computing
Biological Sciences
Law

Business Law
Projects

- Underwater laser cutting
- Barrier verification chamber
- Jacket fatigue / life extension
- Windfarm decommissioning
Simulator
Our location
Our facilities

- Hyperbaric testing
- Indoor immersion tank
- Environmental chamber
- Industrial laser
- Supercomputer
- Advanced workshop
Summary

✓ State of the art decommissioning research across the life cycle
✓ Industry-led, collaborative, innovative
✓ Building critical mass of expertise
✓ Signposting to the best facilities for specialist requirements
✓ Knowledge transfer through networking, forums, CPD, CDTs
✓ Thought leadership and authoritative advice
Questions?