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Xodus Group

## Internationalisation – An Innovative Approach to Decommissioning

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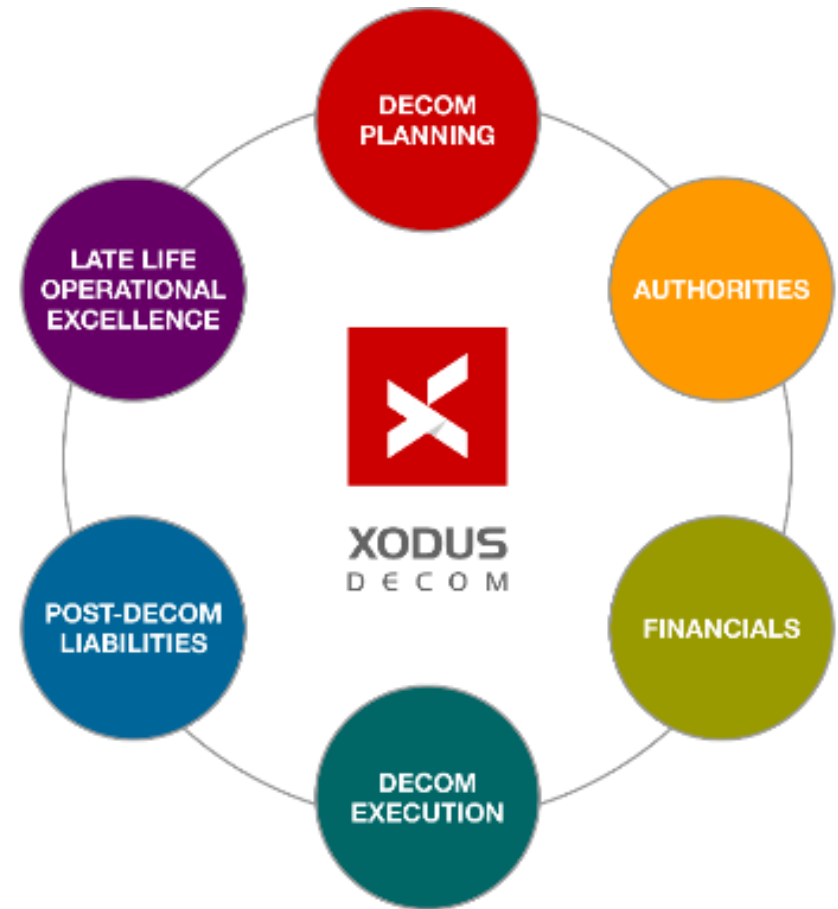


Rebecca Allan / 29<sup>th</sup> May 2019

[www.xodusgroup.com](http://www.xodusgroup.com)



- > Introduction To Xodus
- > UK Decommissioning Sector – Global Opportunity
- > Skills / Knowledge Export – Case Study
- > Other Internationalisation Opportunities
- > Conclusions
- > Questions.....?



# Xodus Capability



Upstream  
Offshore



Upstream  
Onshore



Decommissioning



Offshore  
Wind



Submarine  
Cables



Marine  
Renewables



Carbon Capture  
& Storage





- > UK is one of the most mature decommissioning sector.
- > Cost and schedule efficiencies are being realised:
  - ‘Smarter’ project planning
  - Increased productivity
  - Technology innovations
  - Collaboration
  - New commercial relationships
  - Sharing of lessons learned.
- > UKCS looked to for technical, commercial and regulatory best practice.
- > The global opportunities for export are vast!

## Case Study – An Innovative Approach to Decommissioning

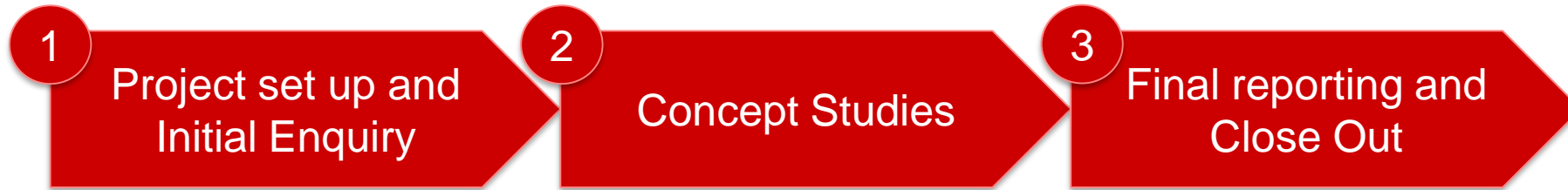
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- > Innovative approach by Operator – supply chain led study.
- > Goal was to achieve a fully integrated decommissioning solution.
- > Multiple concept studies competitive bid format designed by Xodus – maximise supply chain input.
- > Key drivers were to:
  - Test market capability
  - Examine all possible options and alternatives
  - Determine industry best practice
  - Define accurate cost and schedule estimates
- > Collaboration amongst the supply chain was encouraged.
- > Xodus managed and facilitated the concept studies.



- > Facilities included:
  - Topsides – ~29,000 Te
  - Jackets – ~ 23,000 Te
  - Pipelines and Umbilicals – ~450 km
  - Subsea Infrastructure – ~500 Te
  
- > Supply chain given details of infrastructure and desired post-decom status – clean seabed.
  
- > Contractors / consortia given freedom to propose most effective solution.



Phase 1 – Definition of the Decommissioning Concept Studies Strategy

- RFI Stage: 40+ contractors invited to participate
- TPQ Stage: shortlisted 10 consortia narrowed down to 3

Phase 2 – Individual studies by each consortia, review and evaluation. Studies were funded by the Operator.

Phase 3 – Evaluation of proposed solutions and selection of the one best suited to meet project objectives.



## Benefits of Approach

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### Operator:

- > Large range of decommissioning options able to be considered in a short study duration and cost
- > Streamlined approach through early supply chain engagement
- > Maximum benefits from knowledge sharing and lessons learned from both Operator and supply chain
- > Engagement of 3<sup>rd</sup> party technical authorities and industry experts

### Supply Chain:

- > Early awareness of decommissioning project and scope
- > Opportunity to showcase knowledge, skills and technologies
- > Opportunity to identify gaps in capability and experience
- > Development of potentially new collaborations with other service companies to deliver a fully integrated solution



## UK Contribution

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- > Study approach and facilitation
- > Project management expertise
- > Knowledge of international decommissioning regulations
- > Knowledge of decommissioning technologies and innovations
- > Technical Authorities and project assurance
- > Industry lessons learned
- > Cost and schedule effective solutions
- > Key relationships established from executing 100s of scopes in the UKCS



- > UK knowledge and skills are a key asset.
  
- > The case study is a great example of:
  - Project Management and Facilitation
  - Technical Authorities and Assurance
  - Knowledge of existing and emerging technologies within the supply chain
  
- > Many other areas where UK expertise can be exported e.g. contracting strategies, risk management, environmental and societal management strategies.