



The
Oil & Gas
Technology
Centre

Your Innovation Partner



Tie back of the future

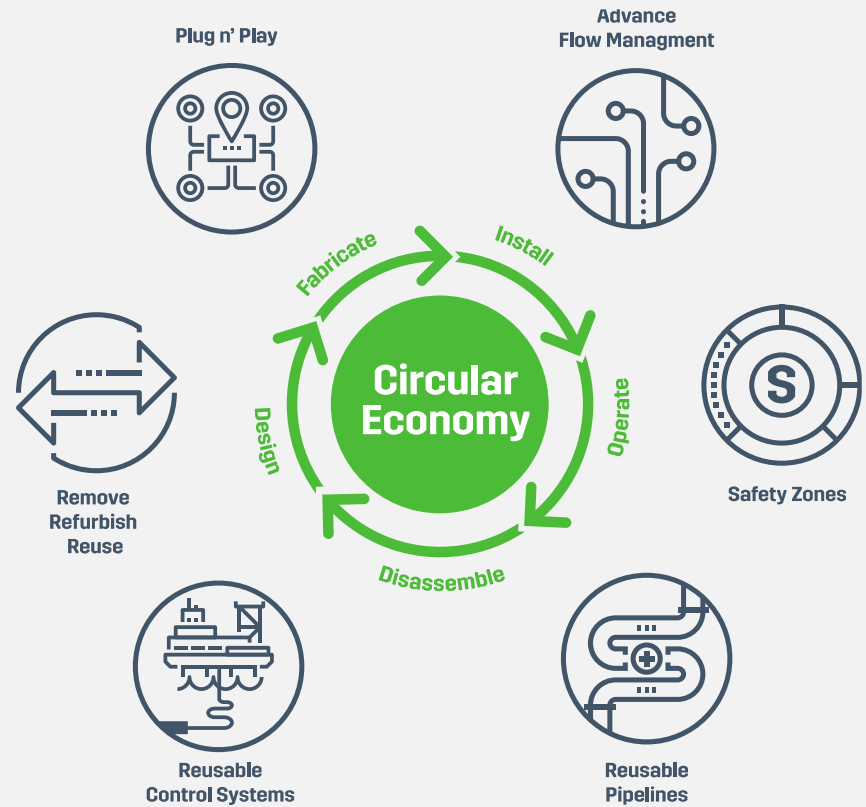
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Tieback of the future

Time for a Paradigm shift?

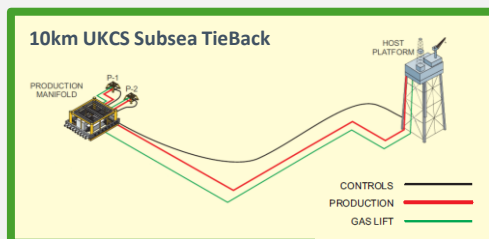


Small Pools
are Small





Tieback of the future



Current TieBack

Prod	7mboe
Proj / Ops	2yrs / 5yrs
NPV	\$4m
IRR	11%

TieBack of the Future

Prod	7mboe
Proj / Ops	1yrs / 5yrs
NPV	\$33m
IRR	25%

Technology Road Map

3 to 5 years

Economic

½ the Subsea COST in ½ the TIME
Uneconomic to Economic

Environmental

CO2e Saving >75%

Cross UKCS Industries

Clear Seabed Policy



Tieback of the future



6

Plug n' Play

- > Projects: Standardised Mech. Hottap
- > Proposal: Call for Ideas: 4off
Hottapping Tool



1

Reusable Pipelines

- > Proposal: Mechanical Connections



4

Advance Flow Management

- > Projects: Non-Intrusive flow meter
- > Proposal: Internal Coatings
Non-Intrusive flow meter
Non-Intrusive flow meter



3

Reusable Control Systems

- > Projects: Current Turbine
Wave Buoy
- > Proposal: Remote Chem/Hydraulics/Comms



2

Safety Zones

- > Projects: Phase II workscope
- > Proposals: Multi-functional Buoy



2

Remove / Refurbish / Reuse

- > Proposal: Industry Study
Data Management

5 Projects & 13 Proposals Aligned with Strategy



Tieback of the future



- Strategy flawed if benefit is only gained by 2nd, 3rd or 4th use



- Risks too great in using 2nd hand equipment



- How would the contractual and commercial model work



- Onshore handling of equipment



- Industry alignment (Operators and Supply Chain)

Time to address some key Challenges?



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