

Decom North Sea

August Breakfast Networking Event

EIP

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Managing Director



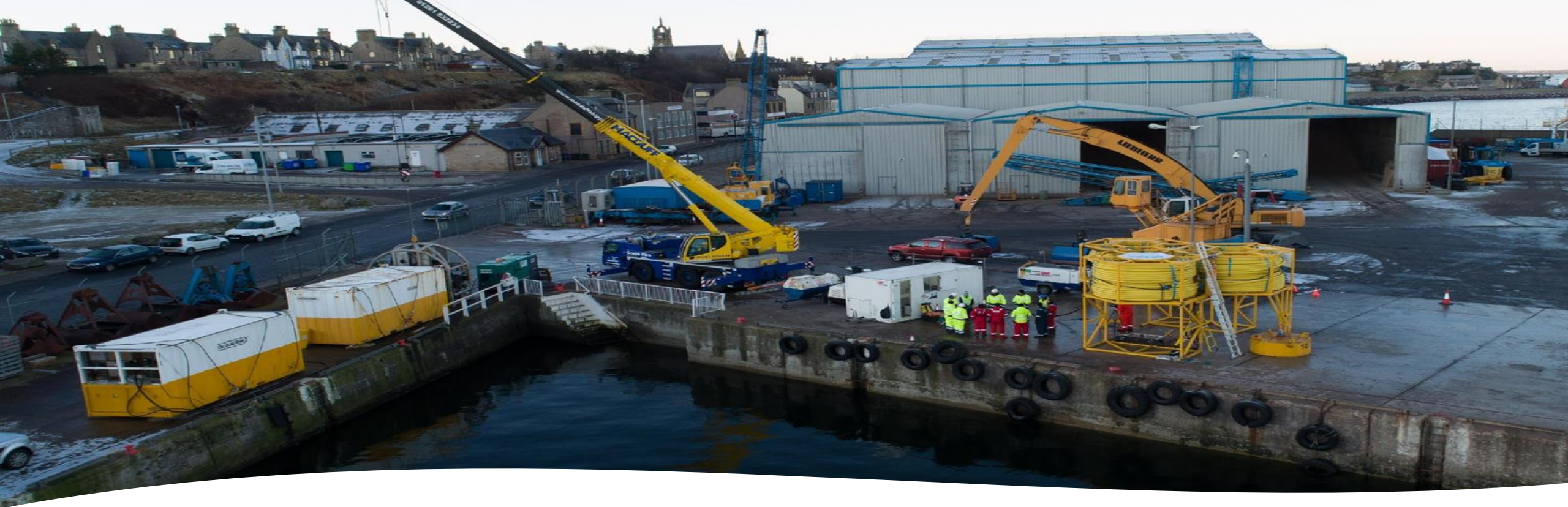
**OUTSTANDING
INNOVATION**
WINNER TWENTY NINETEEN



Ambient Lifter

- Flexible solution to lift, lower and move items subsea
- Scalable lift capability, 50kg to 10,000t, at any depth
- Lift without the use of heave compensated cranes, deployed from small low-cost vessels
- Can be used in subsea, decommissioning, renewables, salvage and military sectors
- Will significantly reduce costs of subsea operations
- Operational in wider weather windows





Ambient Uses

- Decommissioning – reduce costs by 40%
- Subsea Construction – make marginal fields economic
- Self-installing foundations for offshore items
- Offshore Renewables – simple, cheaper, use low-cost vessels
- Self-installing riser arches

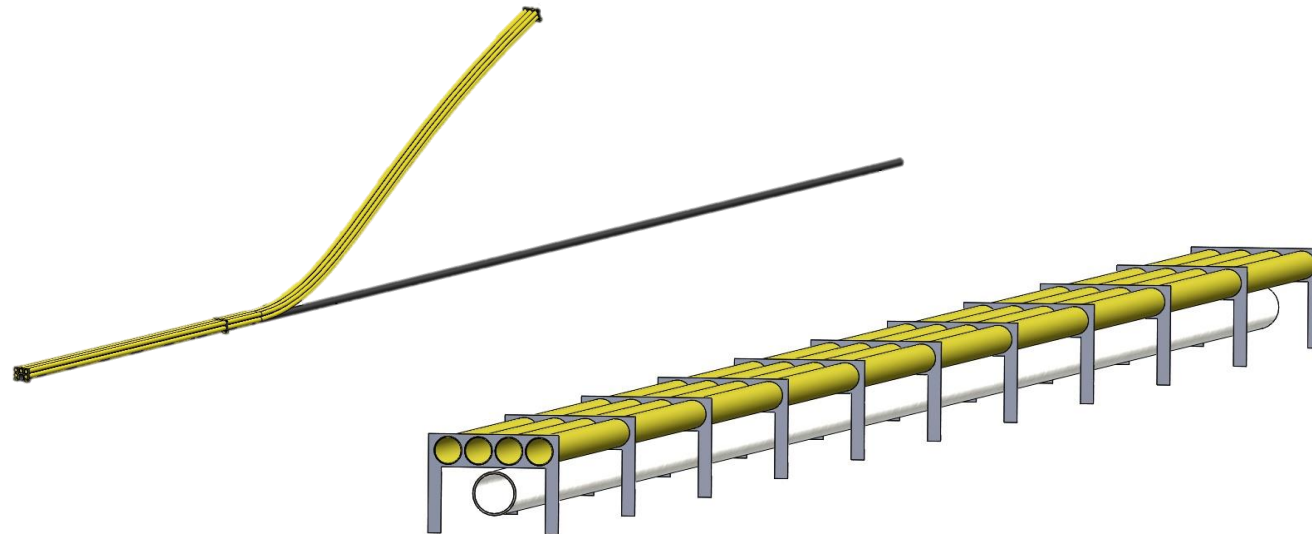


Benefits

- Can be operated from platform or low-cost vessel
- Weather window is up to 60% wider, effective in high current areas
- New way of lifting/shifting subsea, no heave compensated lifting required
- Simple, robust technology, cheaper than crane lift methods
- Safer and more controllable than airbags

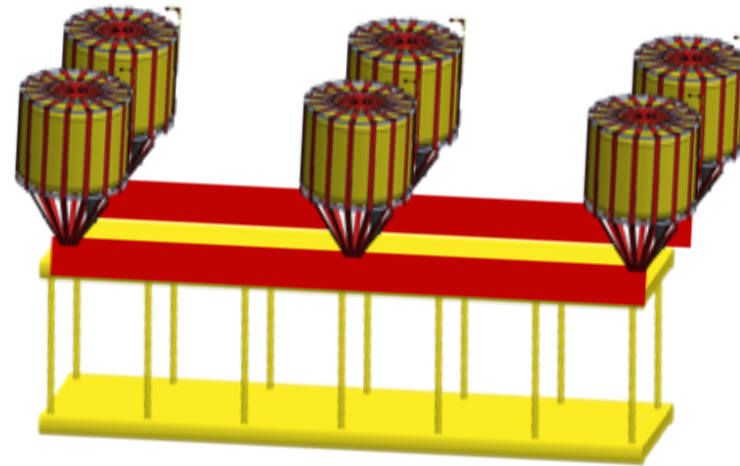
Bundle Decom

- Ambient Linear constructed of multiple PE pipes to give flexibility and lift capacity redundancy
- Ambient lowers down in S-lay and is attached to the bundle
- Bundle recovered from seabed and towed to shore
- Spooled onto Olympic Spoolbase at shore



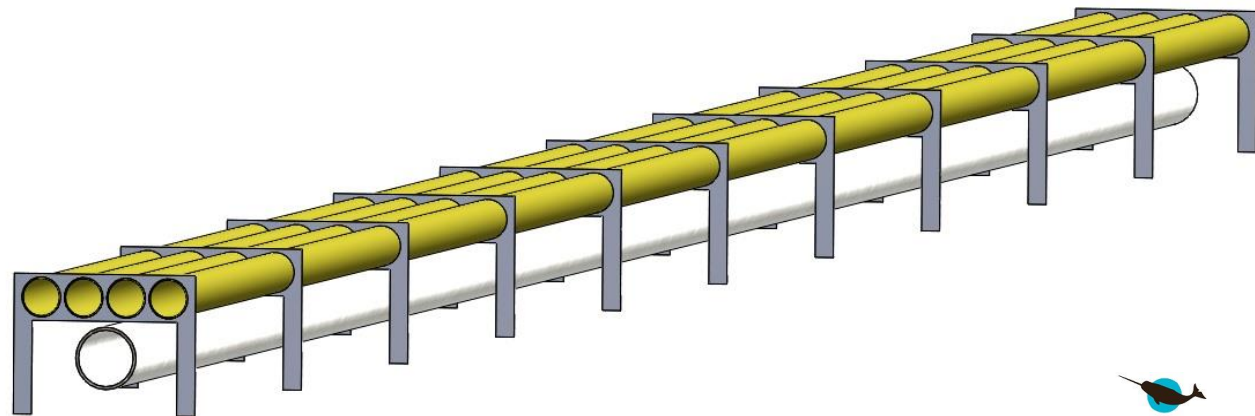
Towhead Removal

- Towheads and Midline Structure can be removed complete
- Lift carried out using multiple Ambient Lifters
- Multiple Ambients give increased control through water column
- Provides ability to trim the structure
- Structure towed to shore – either to dry-dock or deepwater quay – for removal with quayside crane



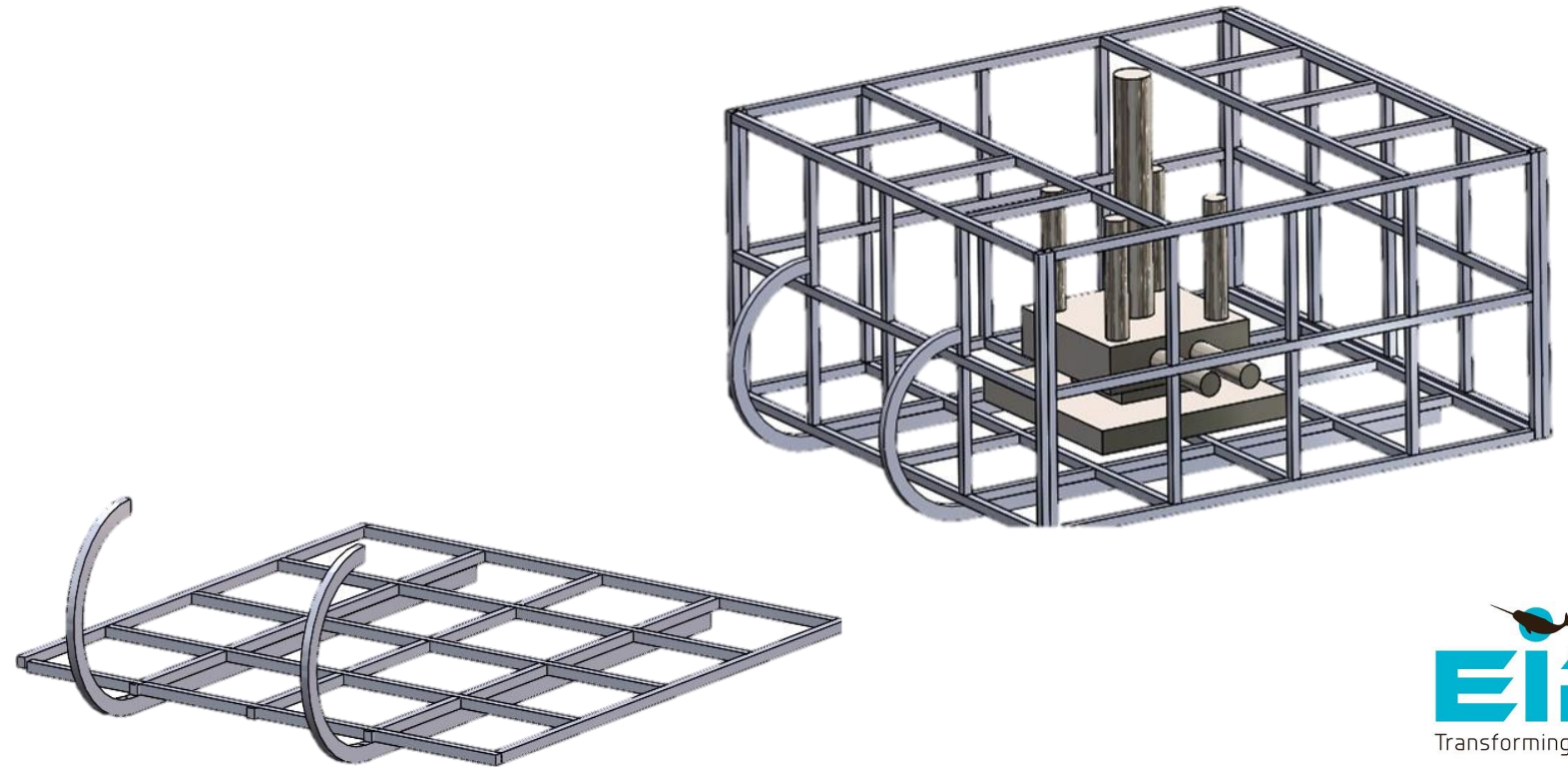
Bundle Example

- Ambient Linear – constructed to be same length as bundle
- Designed to be reused to recover multiple bundle sections
- Made from 650 mm OD pipes joined together to form the Ambient Linear
- Custom manifold and control system for ballast and buoyancy



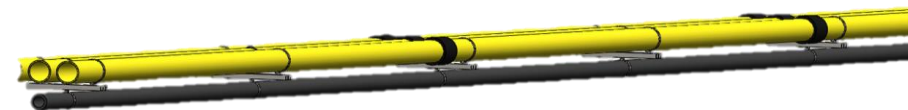
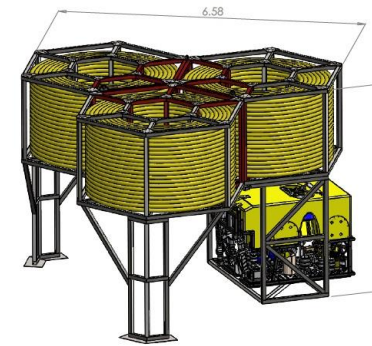
Subsea baskets

- Ambient picks up items from seabed and deposits into EIP basket
- Baskets have a payload of 100 te
- Baskets designed for deployment and recovery to AHVs by winch
- Modular, flat-pack design depending on requirements



Offshore Simulator Centre, Norway

- Simulations will be generated for both Ambient Linear and Ambient Lifter operations
- Models the physics of both technologies executing subsea lifts, with real asset information
- Allows modelling of full client scope to try out different scenarios to plan operations



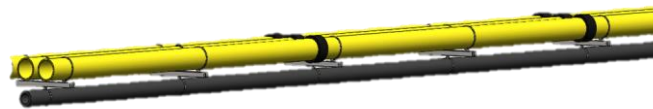
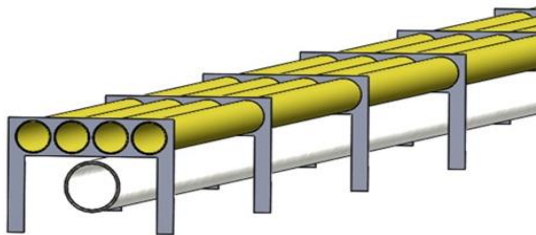


The National Decommissioning Centre

Innovation through Partnership



- Models will be adapted for the planned NDC simulator
- Operators can test decom lift operations with their own assets



Find out more:

Contact EIP on

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Or visit to see for yourself