

Liberty Resident ROV - North Sea Transition Authority

Presentation at the Technology Managers Network meeting
Tuesday 8th November



Did you know there is an ROV System in operation below here?



The Opportunity Case

Many IMR Scopes performed by Vessel Supported ROV are in the range of Light IMR Scopes (LIMR)

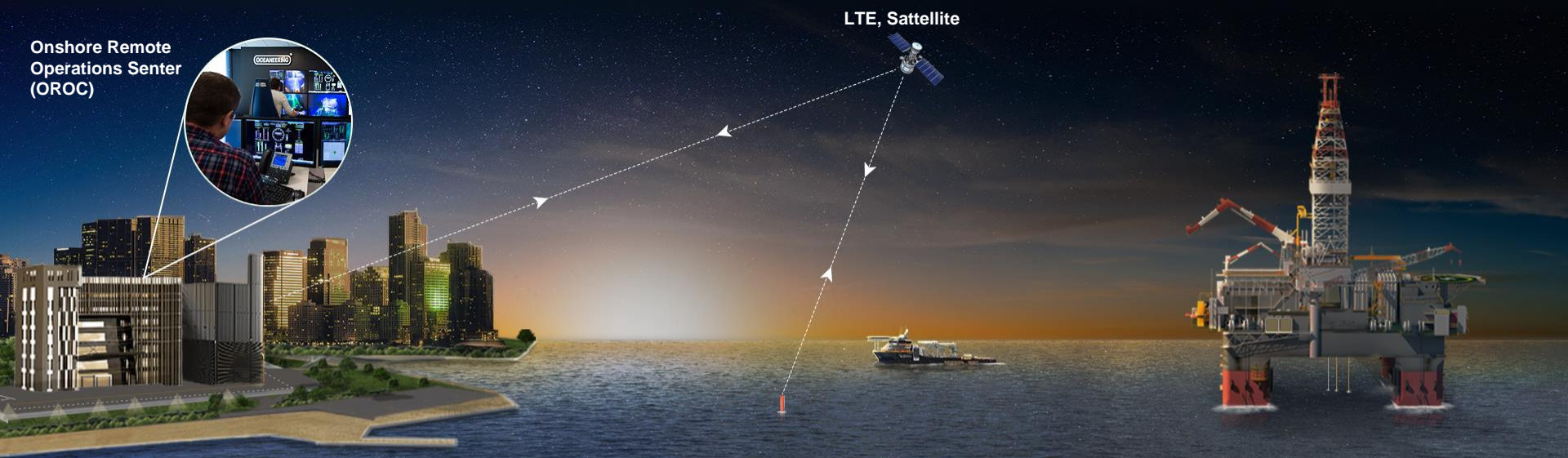
Resident Subsea Robotics can perform LIMR to make operations more cost efficient and environmentally friendly

OCEANEERING[®]

Onshore Remote
Operations Center
(OROC)



LTE, Satellite



The Liberty Resident System

- All-in-one deployable mobile docking station
- 550 kWh battery, 1000 m depth rated, 1000 m tether excursion (range)
- Purely Remotely Operated
- Operated for 12800 hrs at the Norwegian Continental Shelf since service entry in 2019



LIBERTY CAGE



FREEDOM AUV



LIBERTY CONFIGURATIONS



WORK ROV



LIGHT INTERVENTION ROV



Vehicle Agnostic

The Liberty can accommodate any form factor, size and type ROV or AUV to suit operational needs

Liberty Key Benefits

Every day at work, is a day saved in vessel cost & CO₂ emissions



Eliminated 500 vessel days since service entry in 2019



Eliminated 17000 MT of CO₂ emission since service entry in 2019



Reducing total cost of ROV operations



Reducing POB & HSE Risk by purely use of Remote Operations



At work 24/7, not affected by vessel crew change



Access to ROV Without any permanent Deck mobilizations



Flexibility for ROV availability anywhere you want

Do you know the cost of an IMR Vessel and 1 ton CO₂ allowance?



Service Entry in 2019



Field Proven (TRL 7 API 17N)

Liberty™ Operations Track Record October 2022

Operational Statistics (since service entry June 2019)

Missions	→	138 dives
Operational Time	→	12 808 hrs
Longest Dive	→	1 445 hrs (60 days)

CO2 Emission Savings (comparison to Vessel Supported ROV)

Daily	→	33 MT
14 Day IMR Campaign	→	466 MT
Since Service entry 2019	→	17611 MT

Operational Tasks	Operational Areas (NCS)	
Inspection	Gullfaks	Troll
Commissioning	Heimdal	Valemon
Valve Operation	Johan Sverdrup	Veslefrikk
Pipeline Isolation & Pigging	Oseberg	Vigdis
Leak Testing	Sleipner	Åsgard
Conductor Guiding	Snorre	
Decommissioning	Statfjord	
UXO		

Connecting What's Needed with What's Next™

Thank you for your attention!





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