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Engineering Challenges

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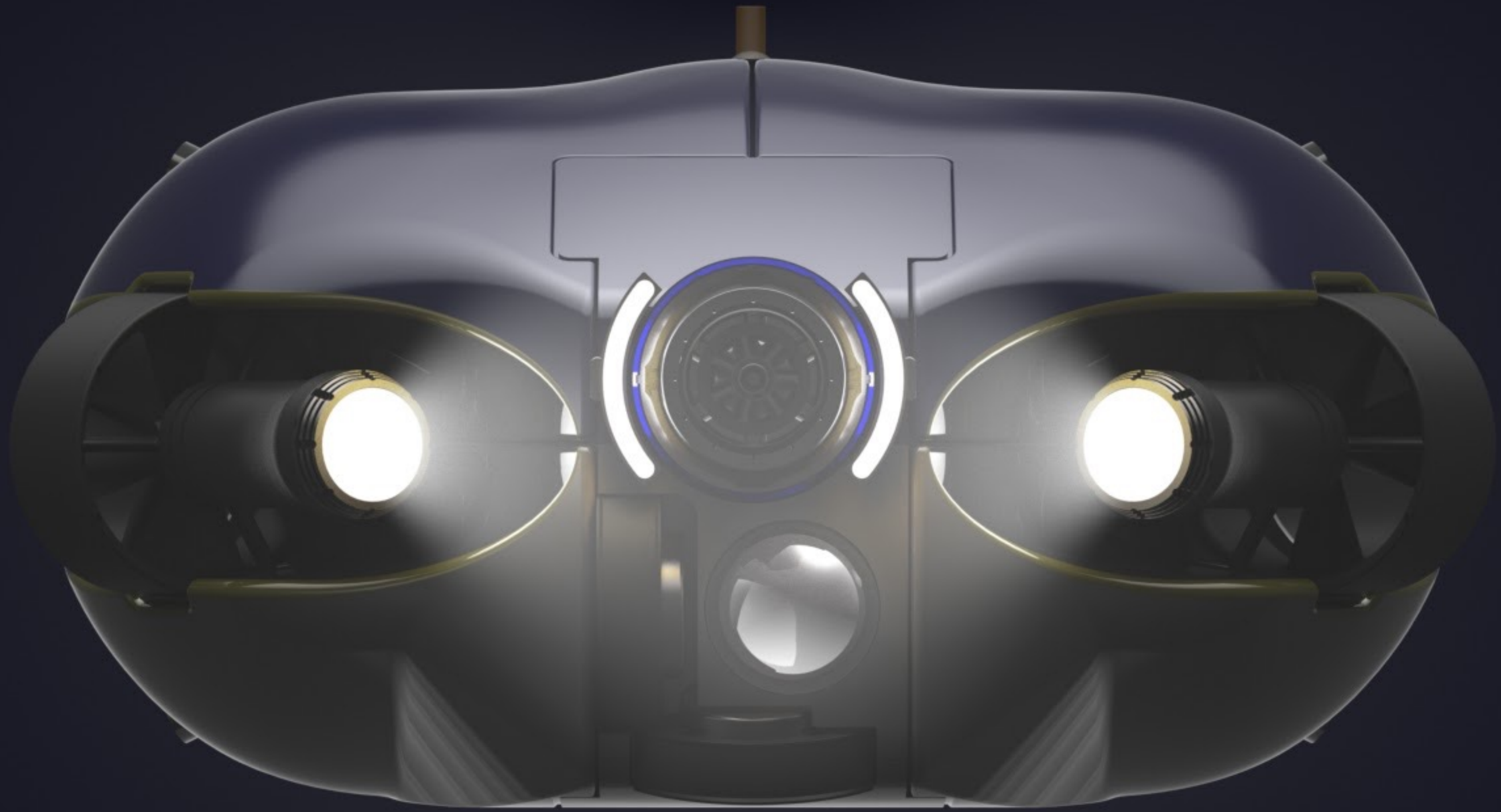
Director of Emerging Technologies - Europe

SUT Seminar – Aberdeen Nov 21st 2018



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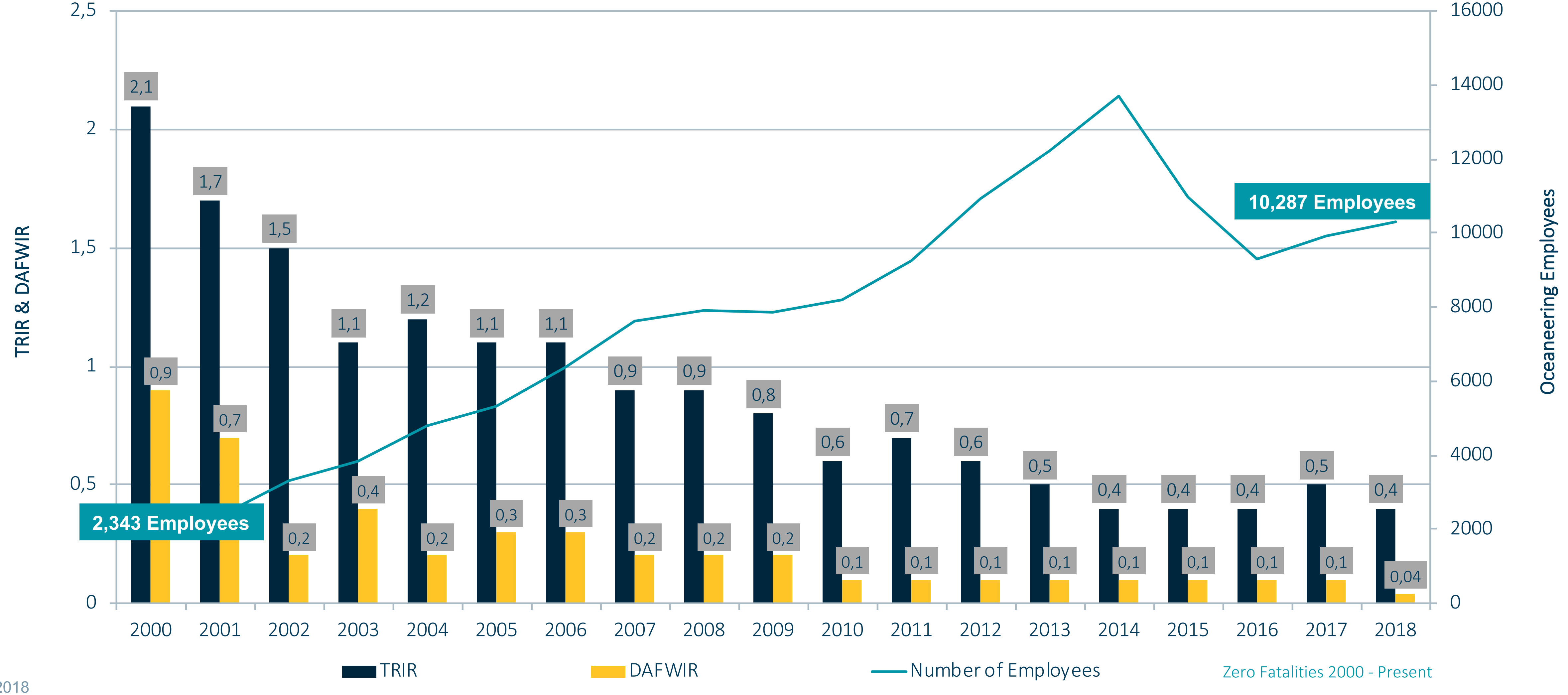
OUR MISSION

WE SOLVE THE UNSOLVABLE.

OUR VISION

We thrive by creating industry-changing technically creative solutions for the most complex operational challenges under water, on land, and in space.

Safety Performance



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Note: 2018 Q2

Worldwide Locations

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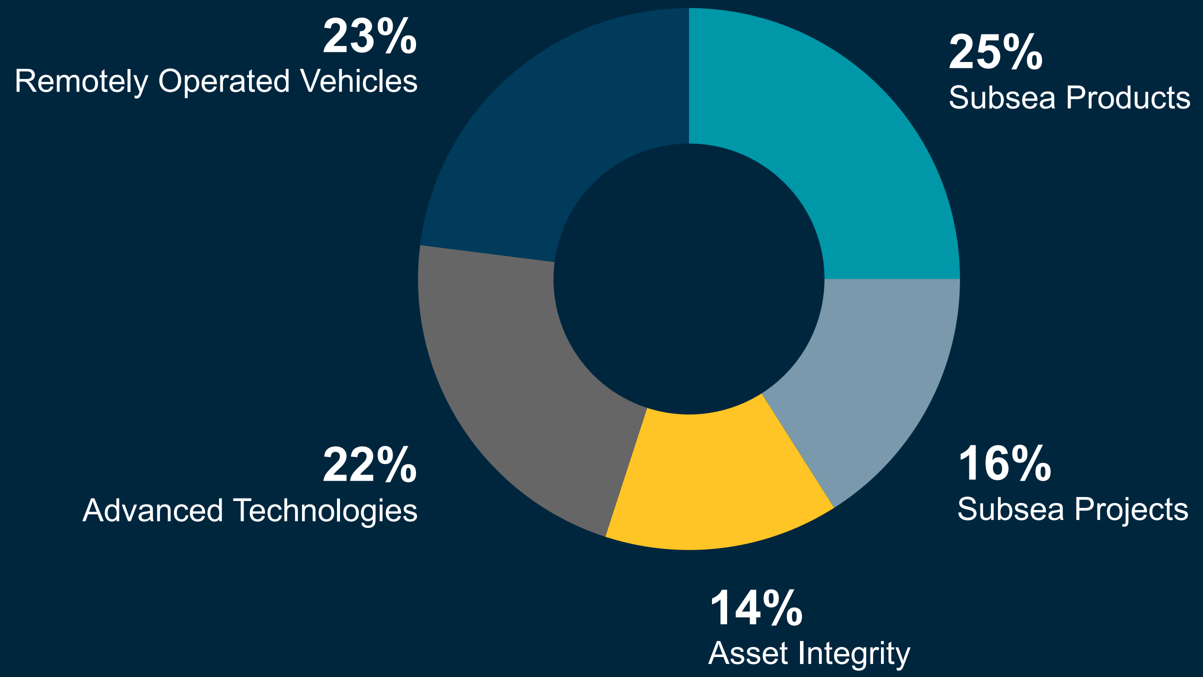
Revenue

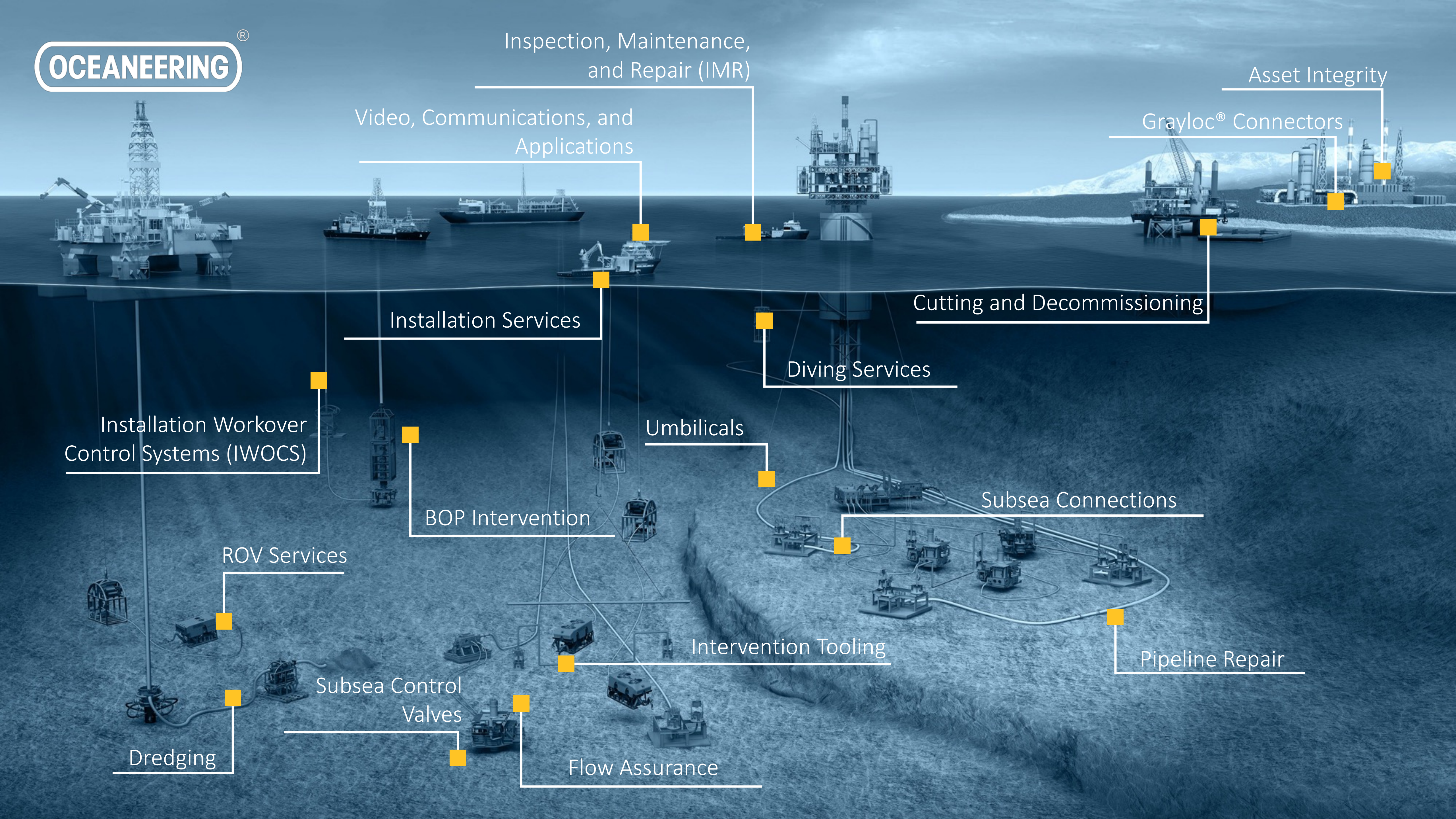


 * Operating Income total includes Unallocated Expenses, not represented in bar chart


OCEANEERING
Automated Guided Vehicles
NO RIDING
oceaneering.com/agv

Global Data Solutions

oceaneering.com/gds


OCEANEERING®
Inspection, Maintenance, and Repair (IMR)
Video, Communications, and Applications
Asset Integrity
Grayloc® Connectors
Installation Services
Cutting and Decommissioning
Diving Services
Installation Workover Control Systems (IWOCS)
Umbilicals
BOP Intervention
Subsea Connections
ROV Services
Intervention Tooling
Pipeline Repair
Subsea Control Valves
Dredging
Flow Assurance

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Remotely Operated Vehicles

oceaneering.com/rov

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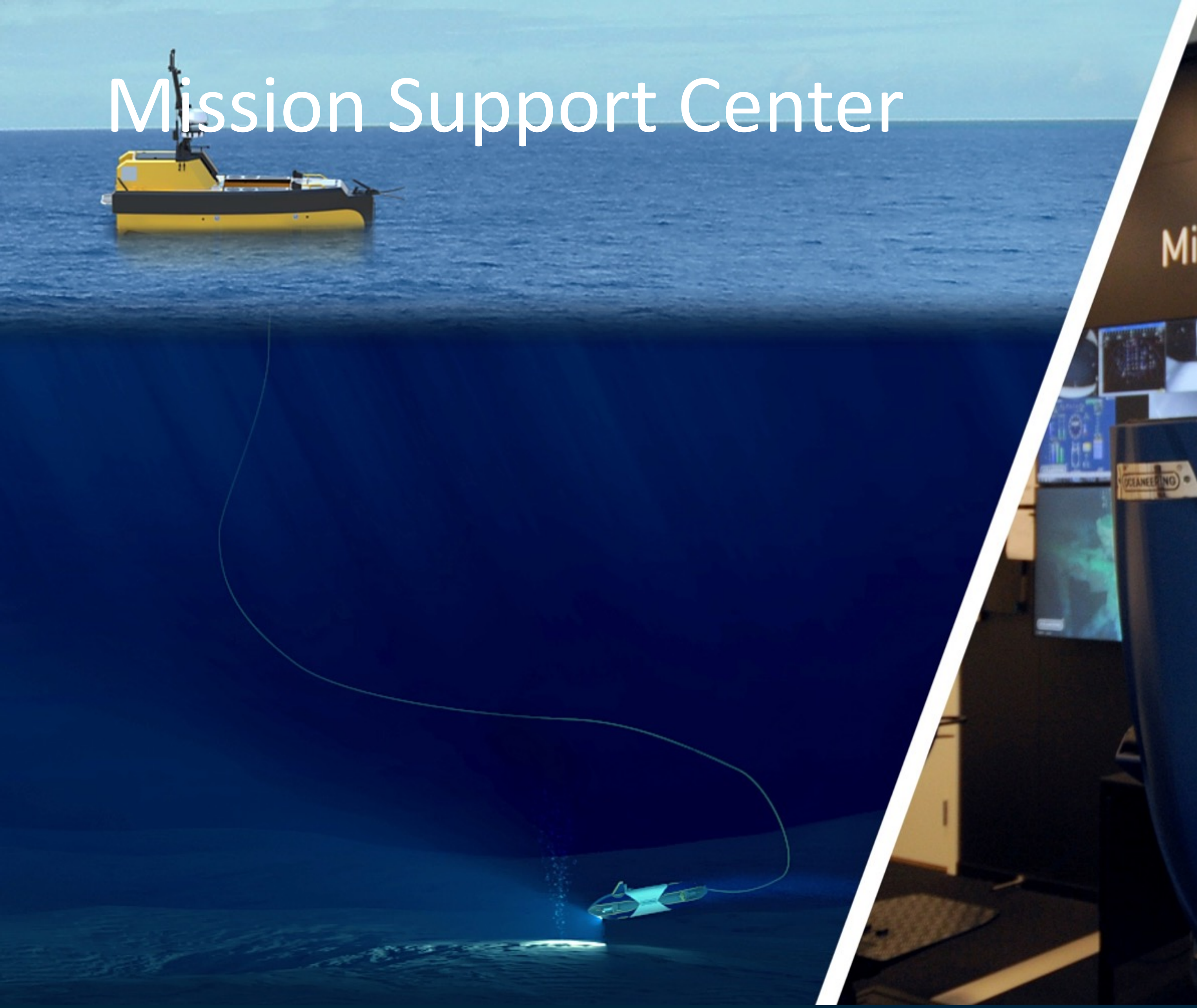
Subsea Tooling

oceaneering.com/tooling

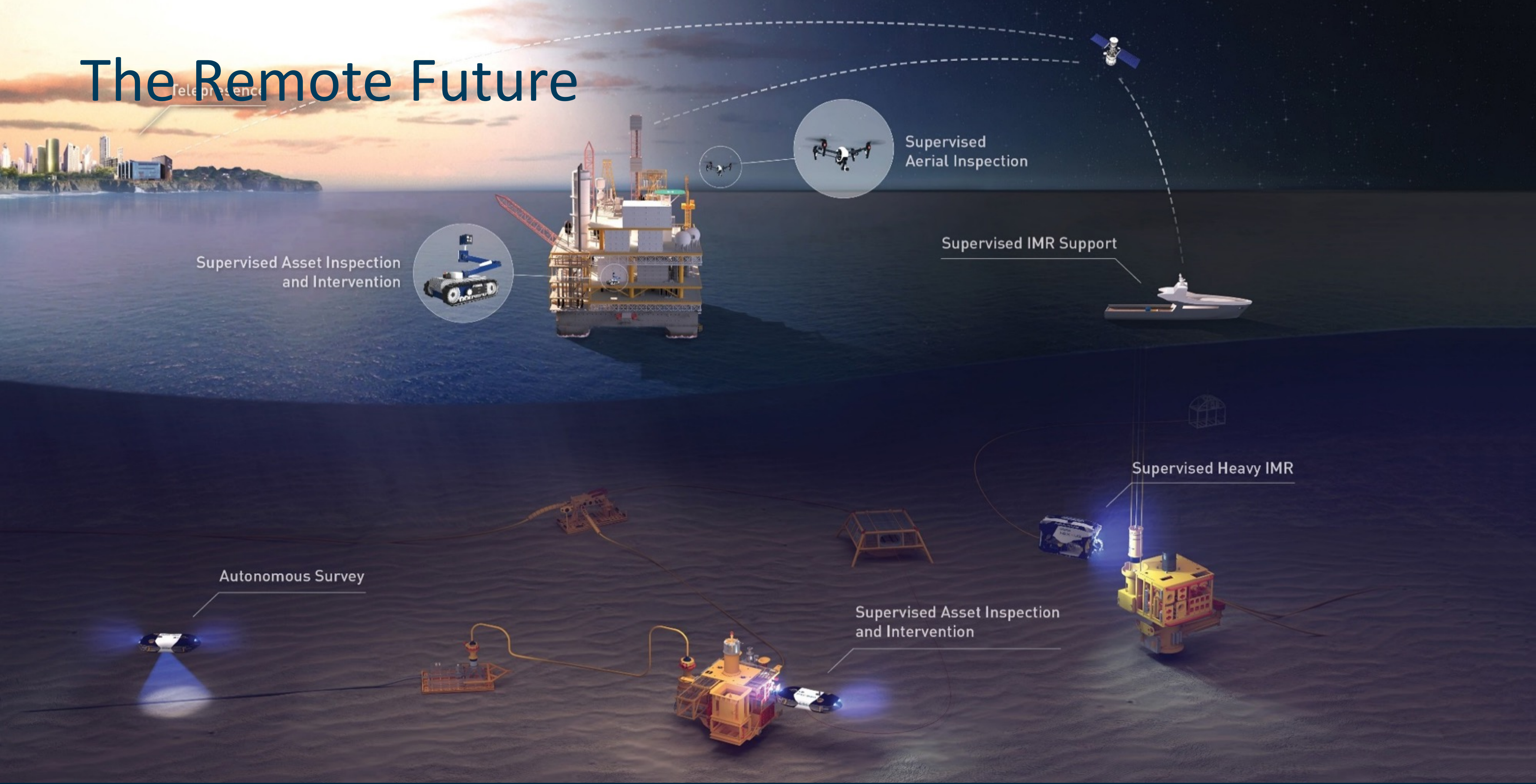
Survey Services

oceaneering.com/survey

Mission Support Center



The Remote Future



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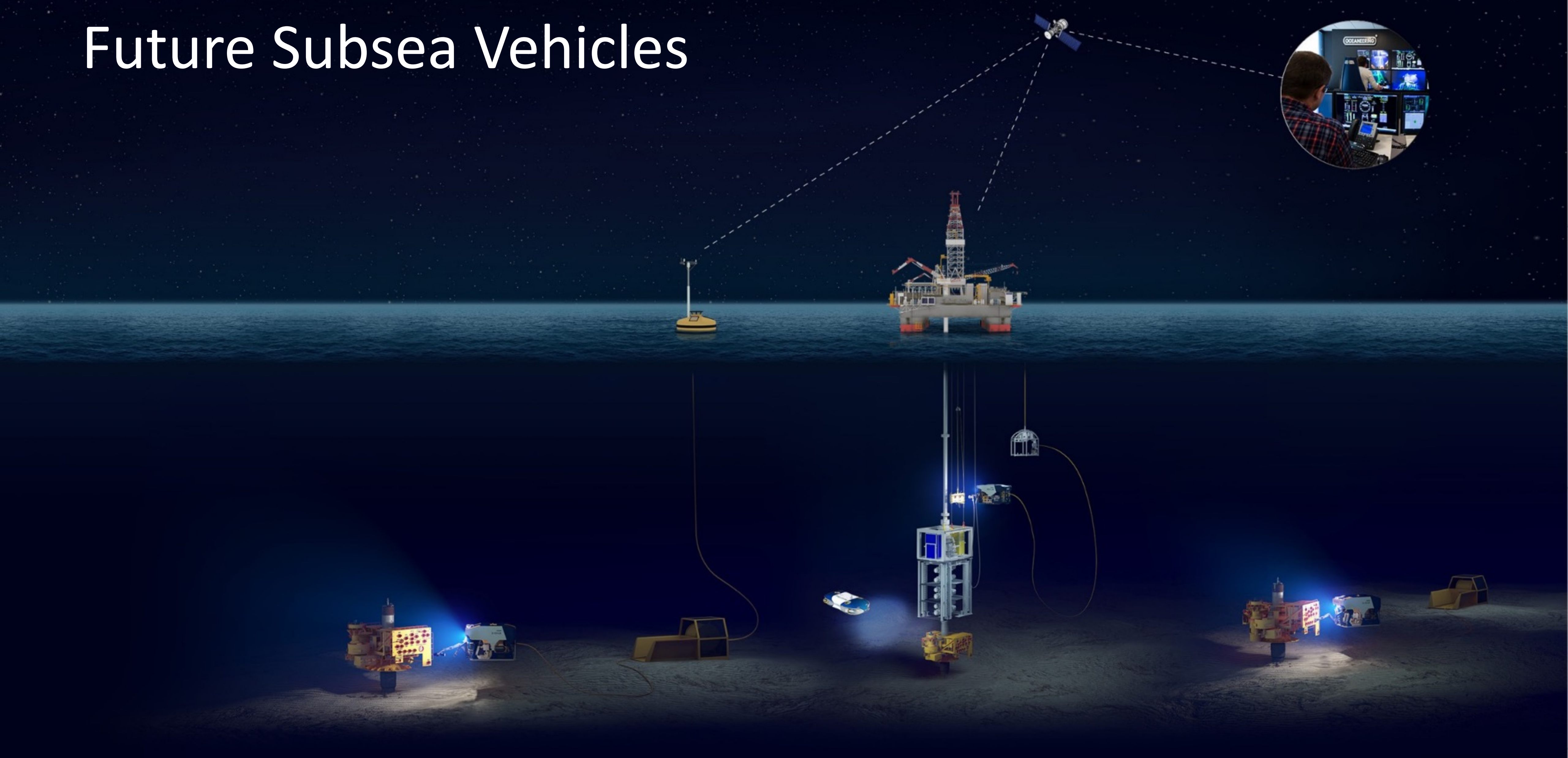
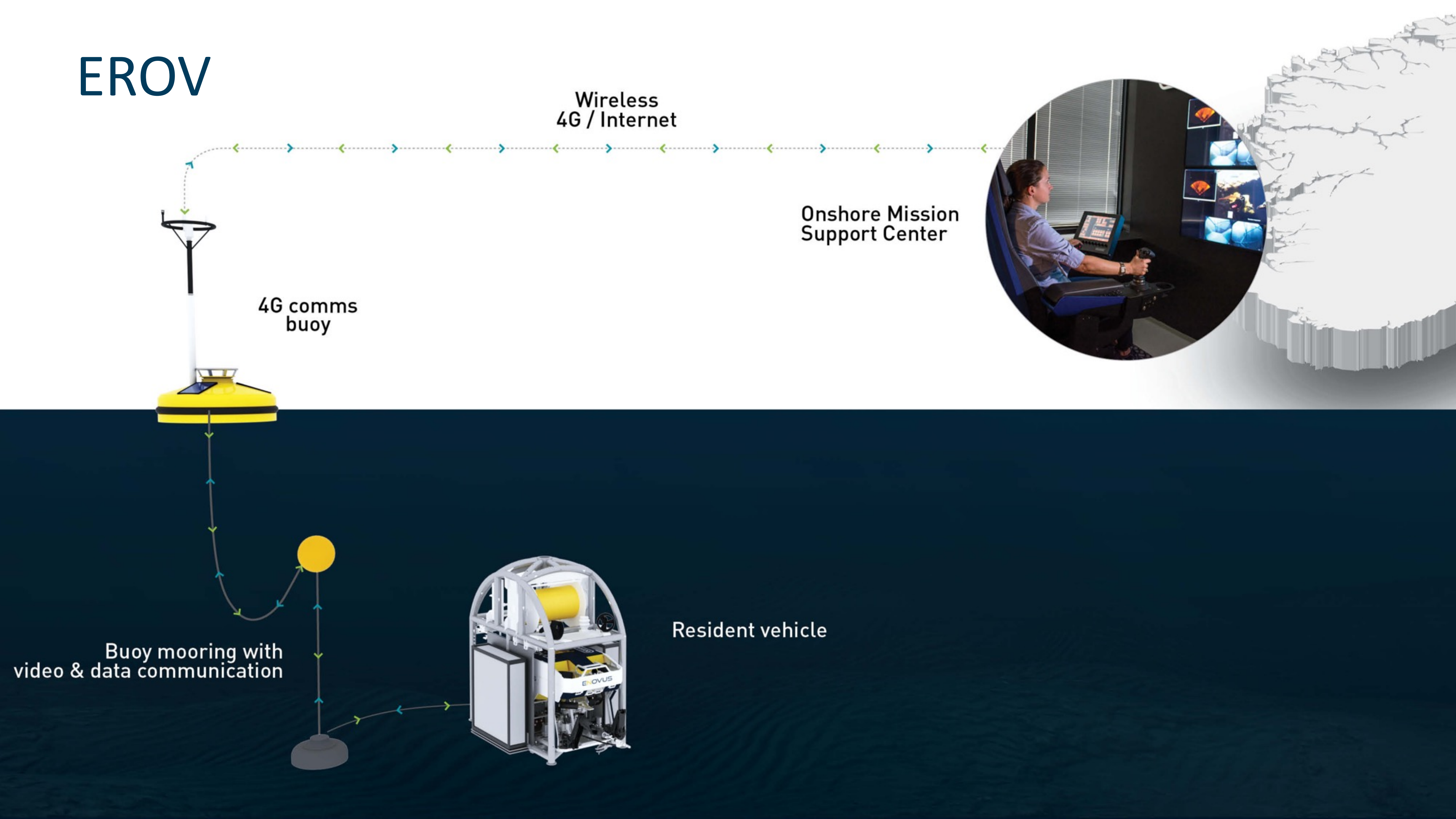
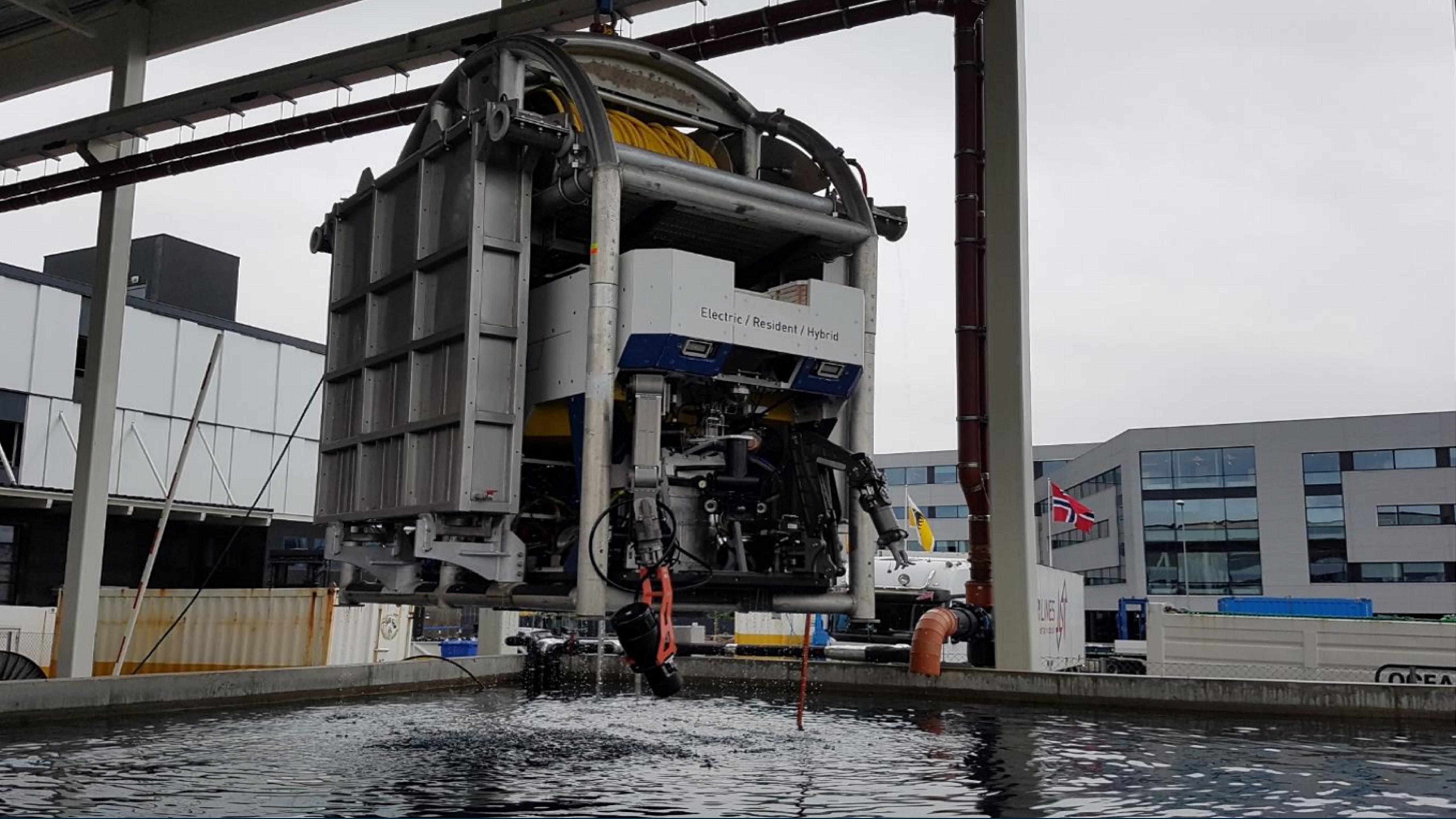
Future Subsea Vehicles



EROV


Wireless
4G / Internet
Onshore Mission
Support Center
4G comms
buoy
Buoy mooring with
video & data communication
Resident vehicle
ENOVUS

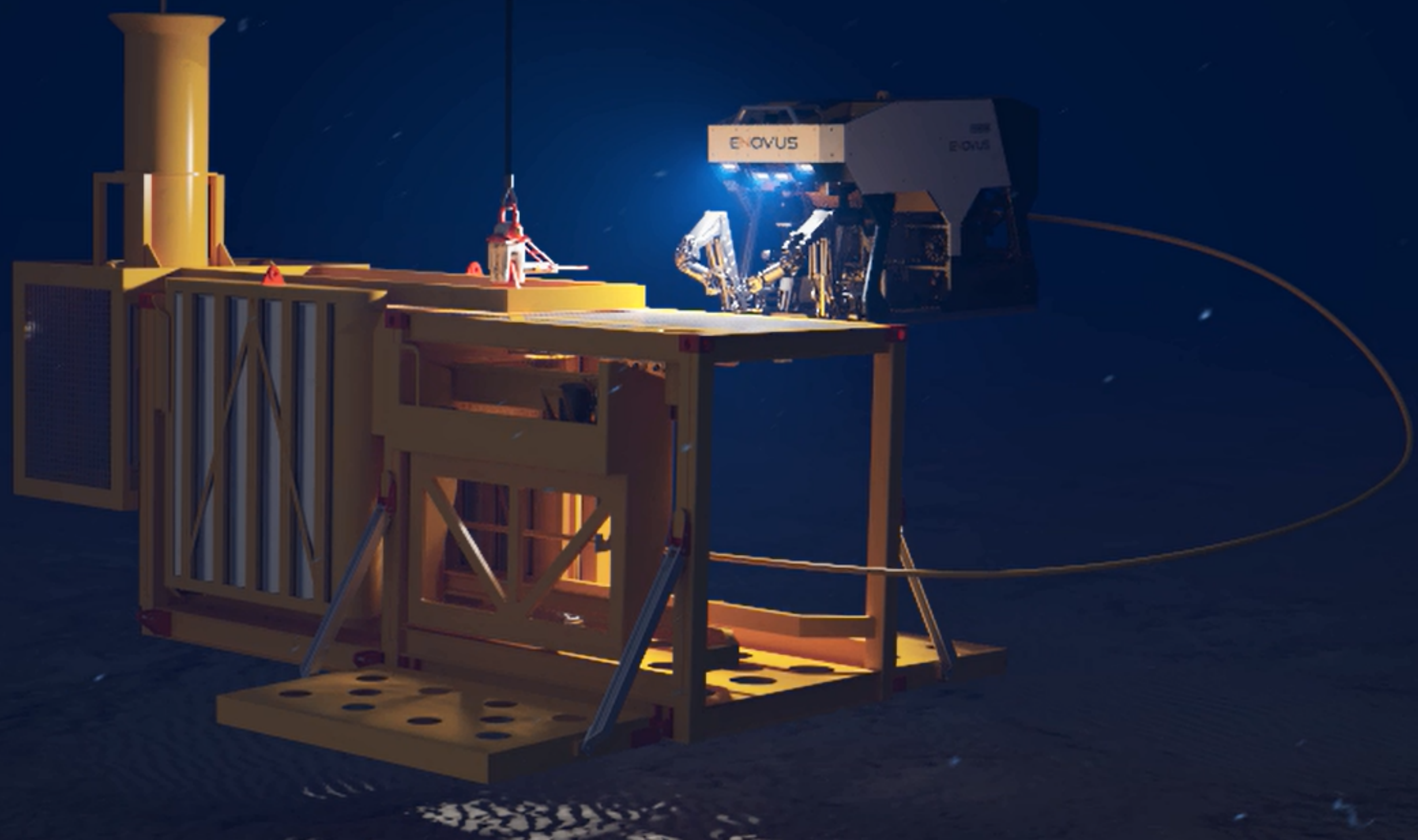

Electric / Resident / Hybrid

Mk II Challenges

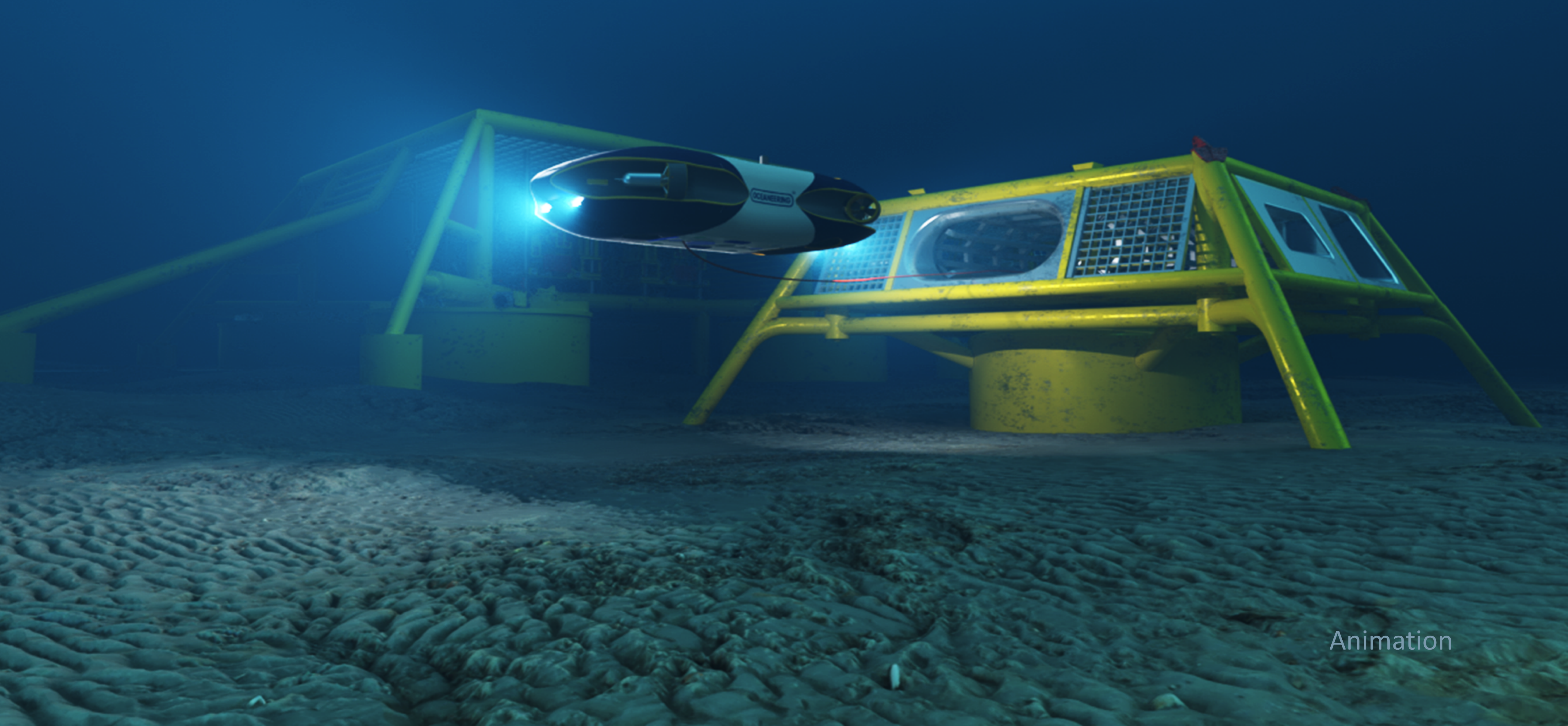
Maximum deployment time

2hrs

EROV



Freedom Series



Freedom Vehicle Challenges

Size

vs

Range

vs

Vehicle Cost

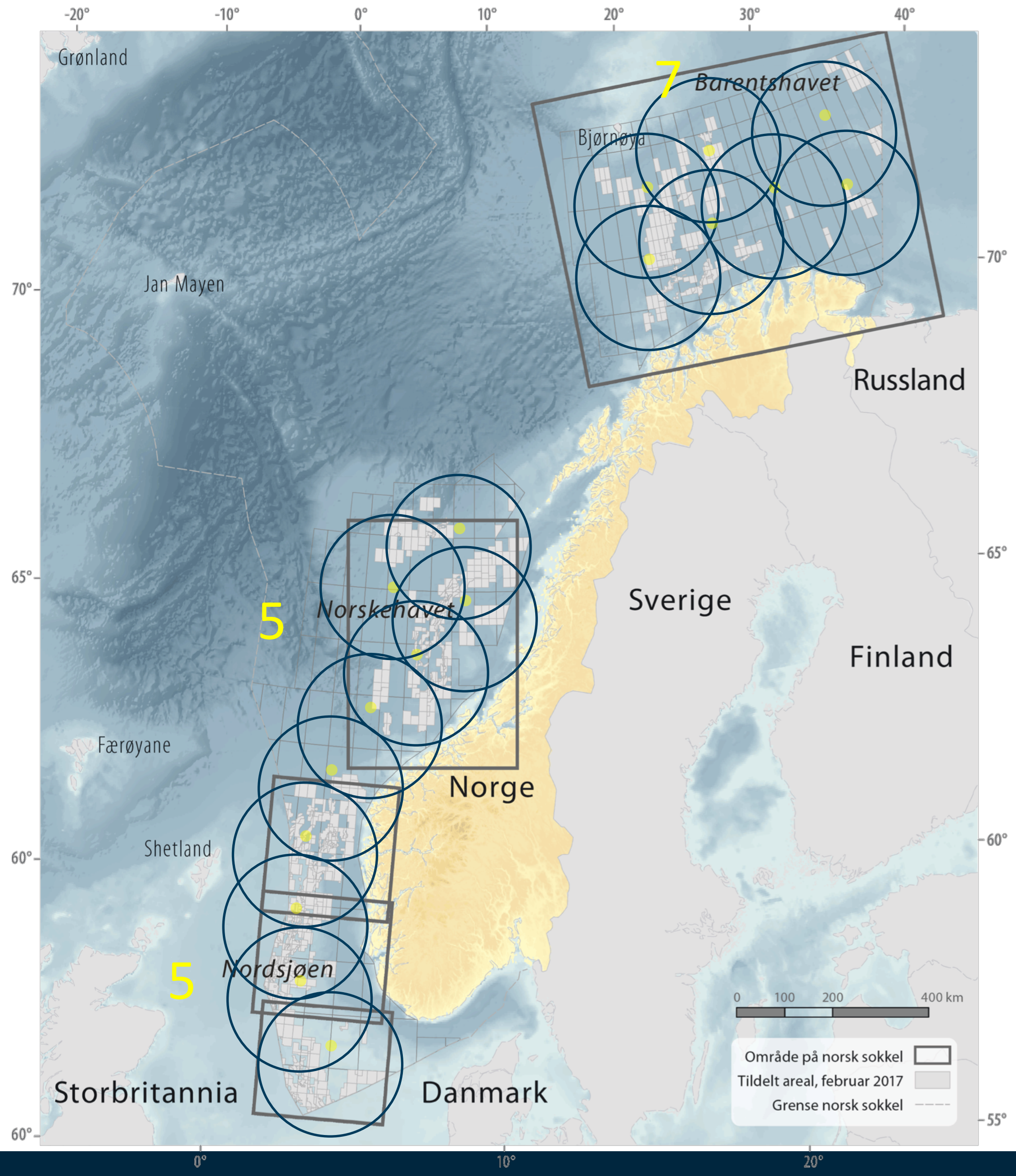
vs

System Cost

Freedom Reach

For full Freedom coverage of the entire NCS, only 17 docking stations required

Field specific communication and power solutions needs, will increase this in certain areas



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Freedom Vehicle Challenges

Thruster Selection

RIM

vs

Pod

Thrusters

Freedom Vehicle Challenges

Endoskeleton

vs

Exoskeleton

Endoskeleton

Exoskeleton

Freedom Vehicle Challenges

Flying Stability


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FREEDOM
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OCEANEERING®
Connecting What’s Needed With What’s Next™