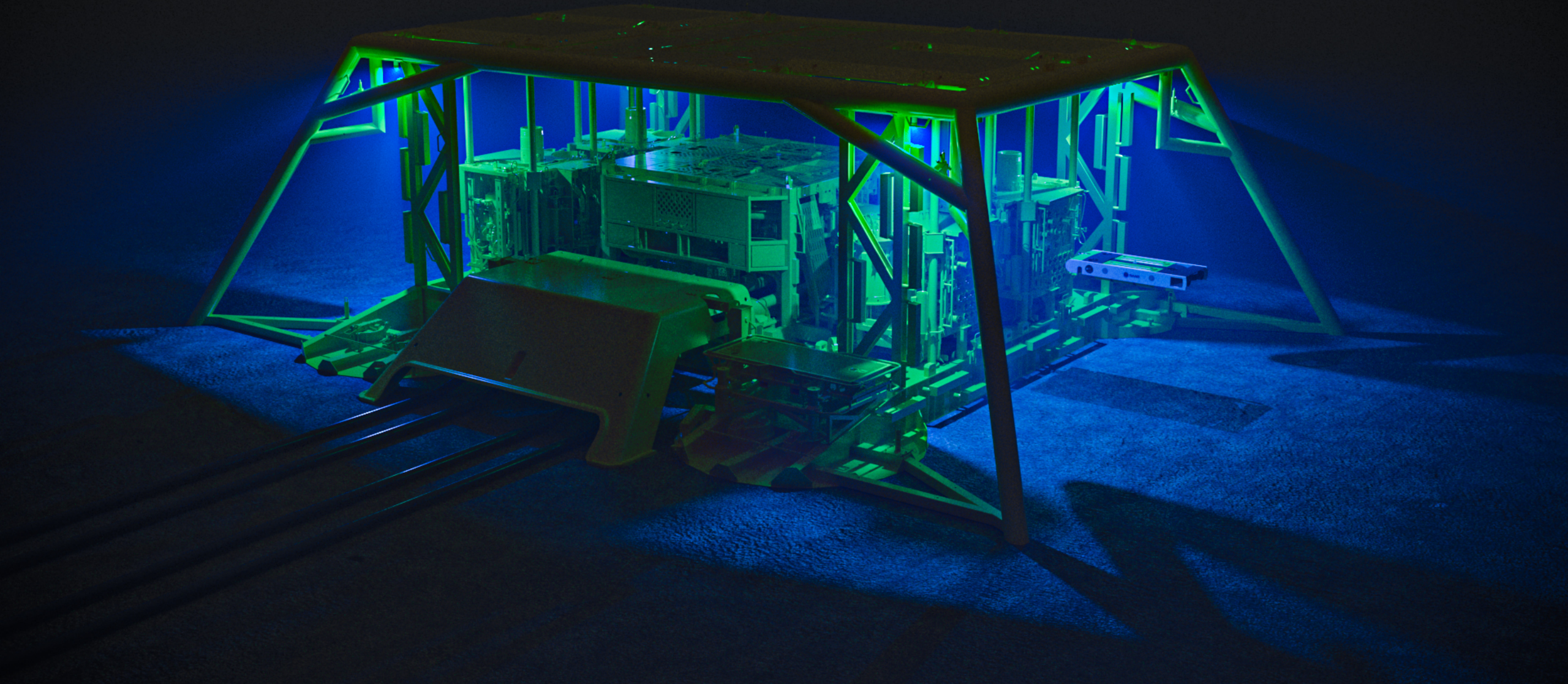


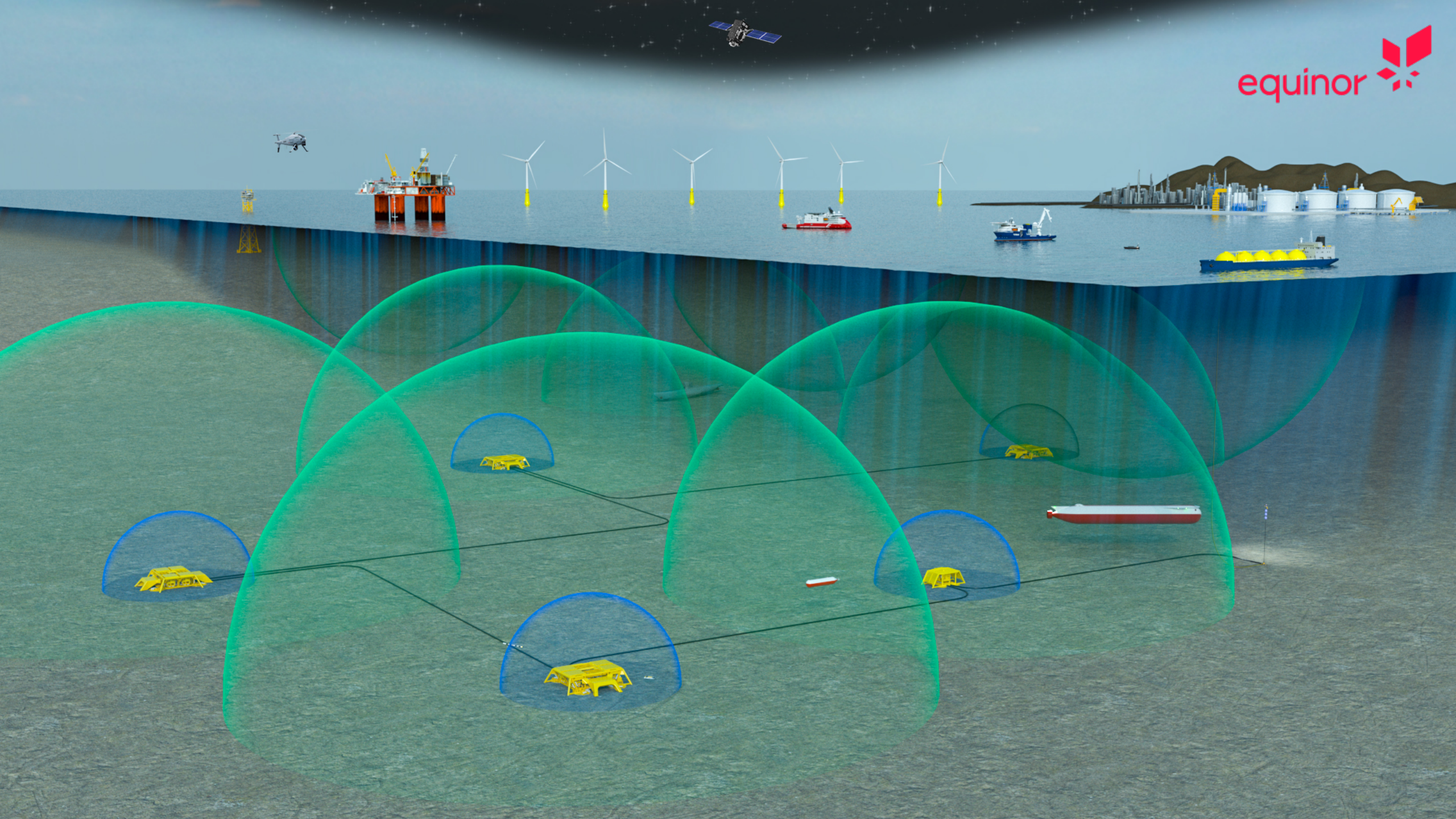


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Remotely Operations using Underwater Intervention Drones (UID)

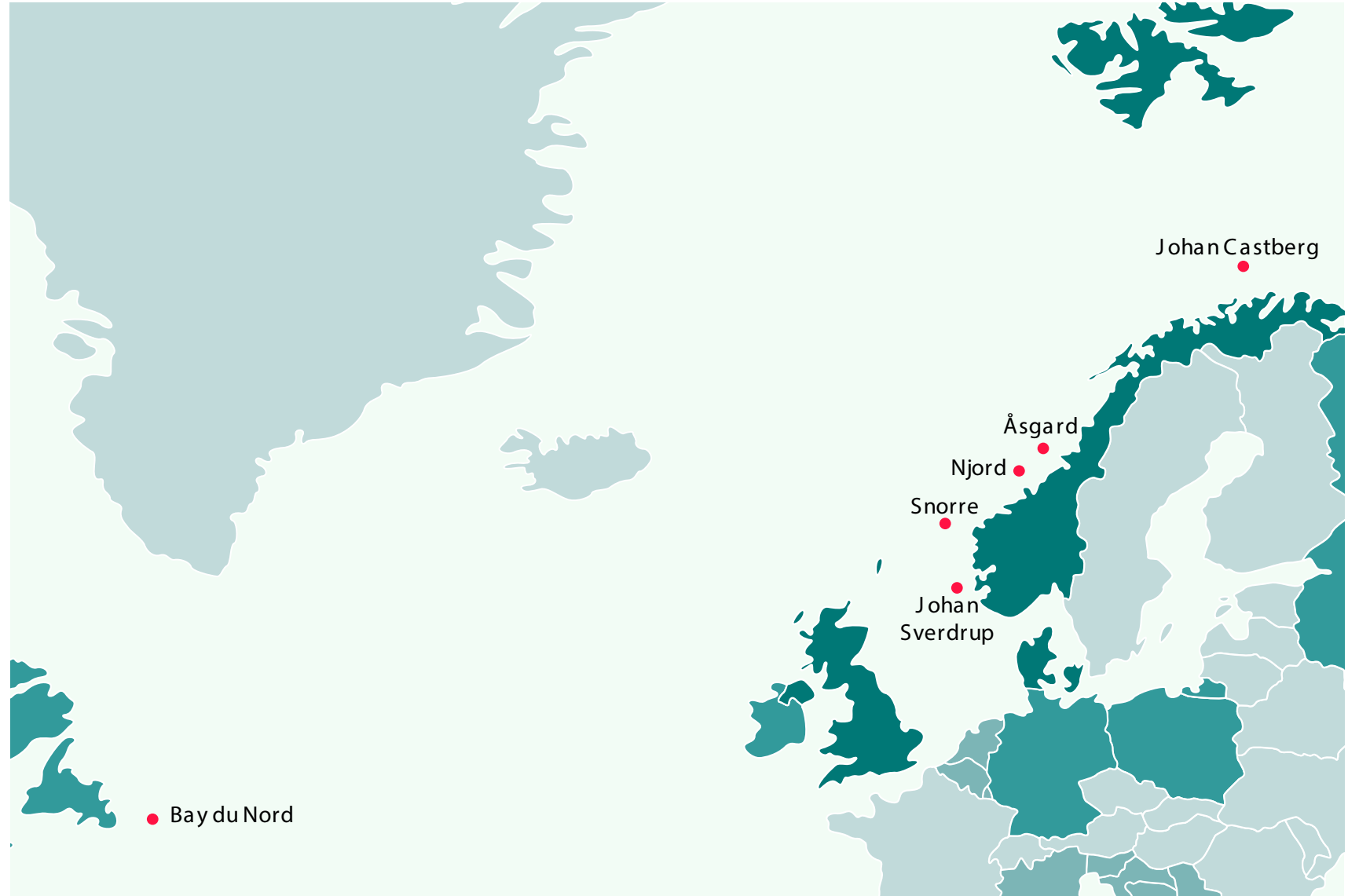
Jan Christian Torvestad





Some of the fields where we are considering the use of underwater drones:

- Åsgard
- Johan Sverdrup
- Johan Castberg
- Njord
- Snorre
- Bay du Nord





Saipem

SAIPEM

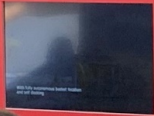
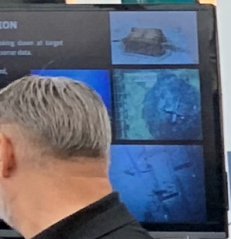
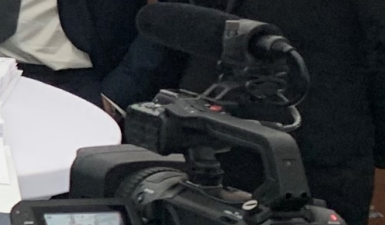
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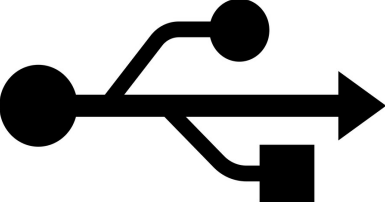
Subsea Docking Station



Subsea Wireless Communication



Power Supply

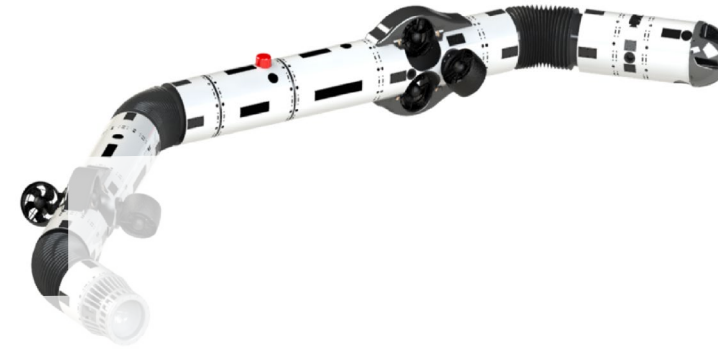


Network Infrastructure

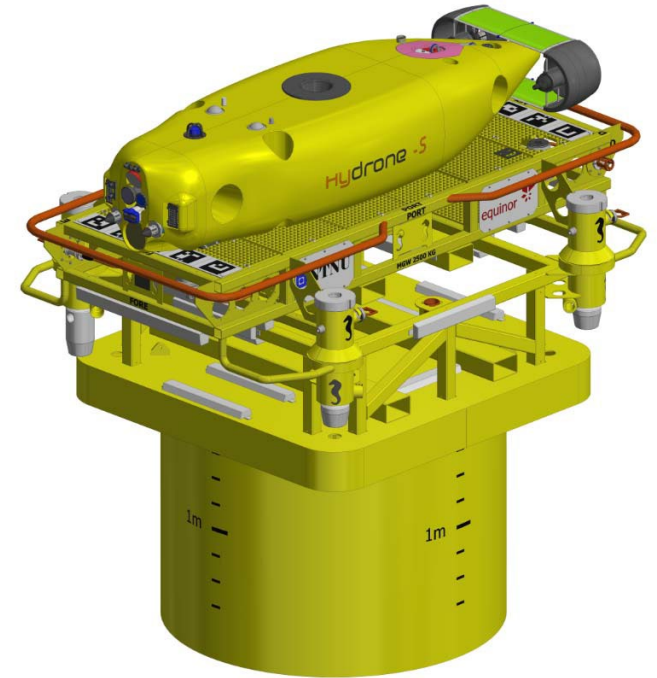
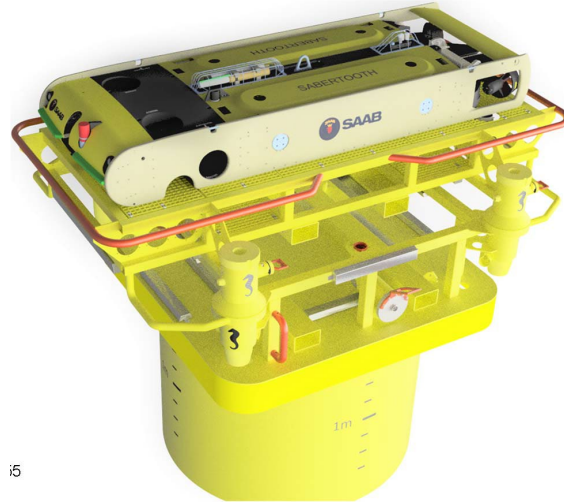
UID™

Underwater Intervention Drone

- Should be able to perform many tasks that traditional IWRVs have done
- Remotely controlled from shore
- No operational restrictions with regards to surface weather
- Resident and always available

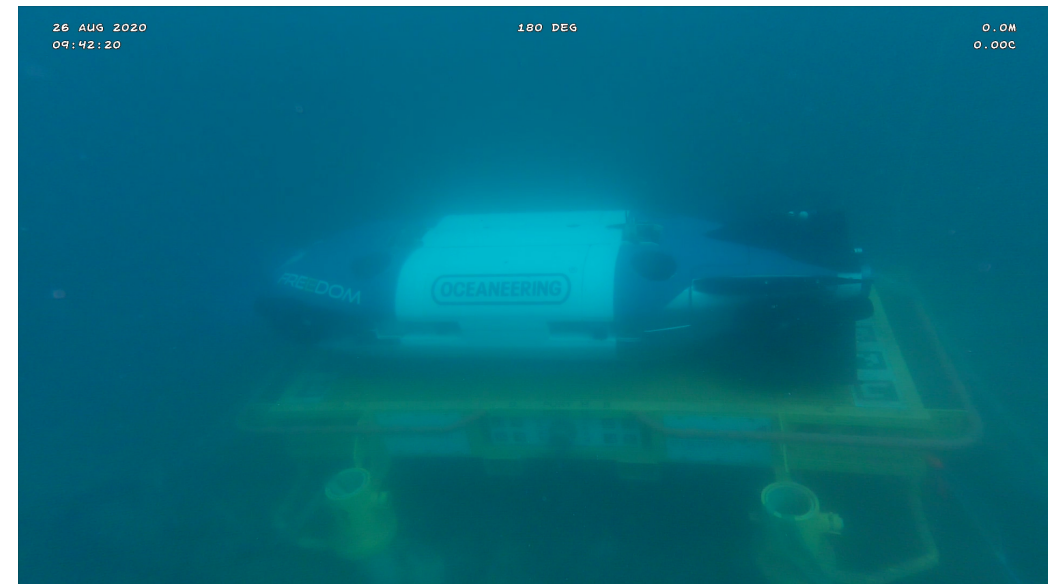
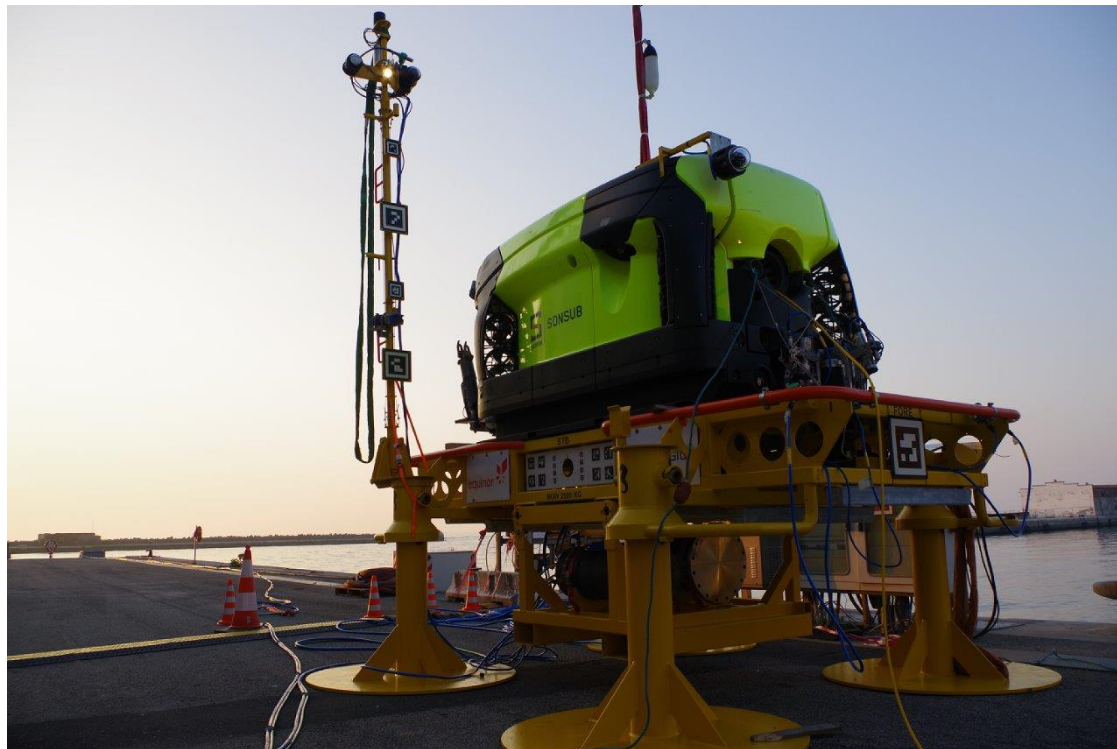


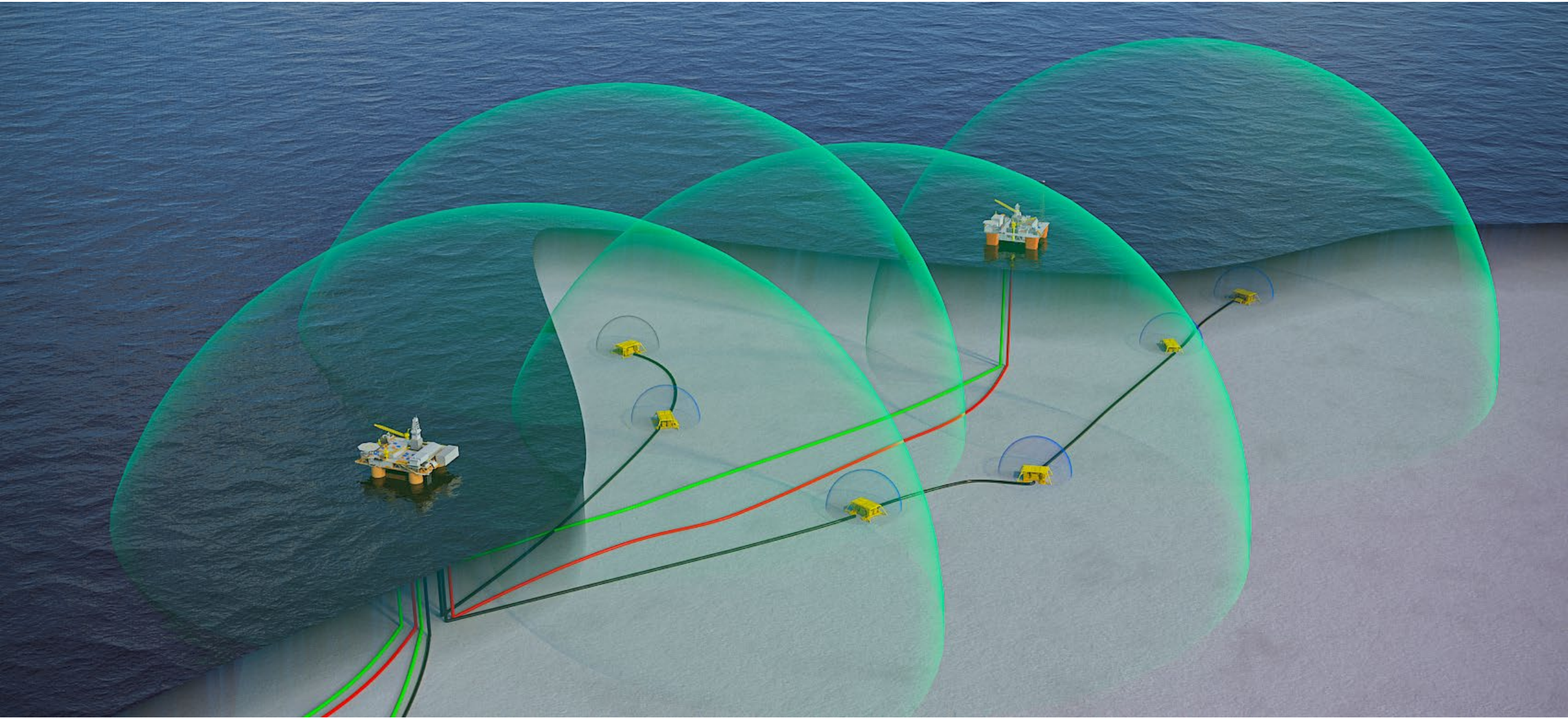
Subsea Docking Station



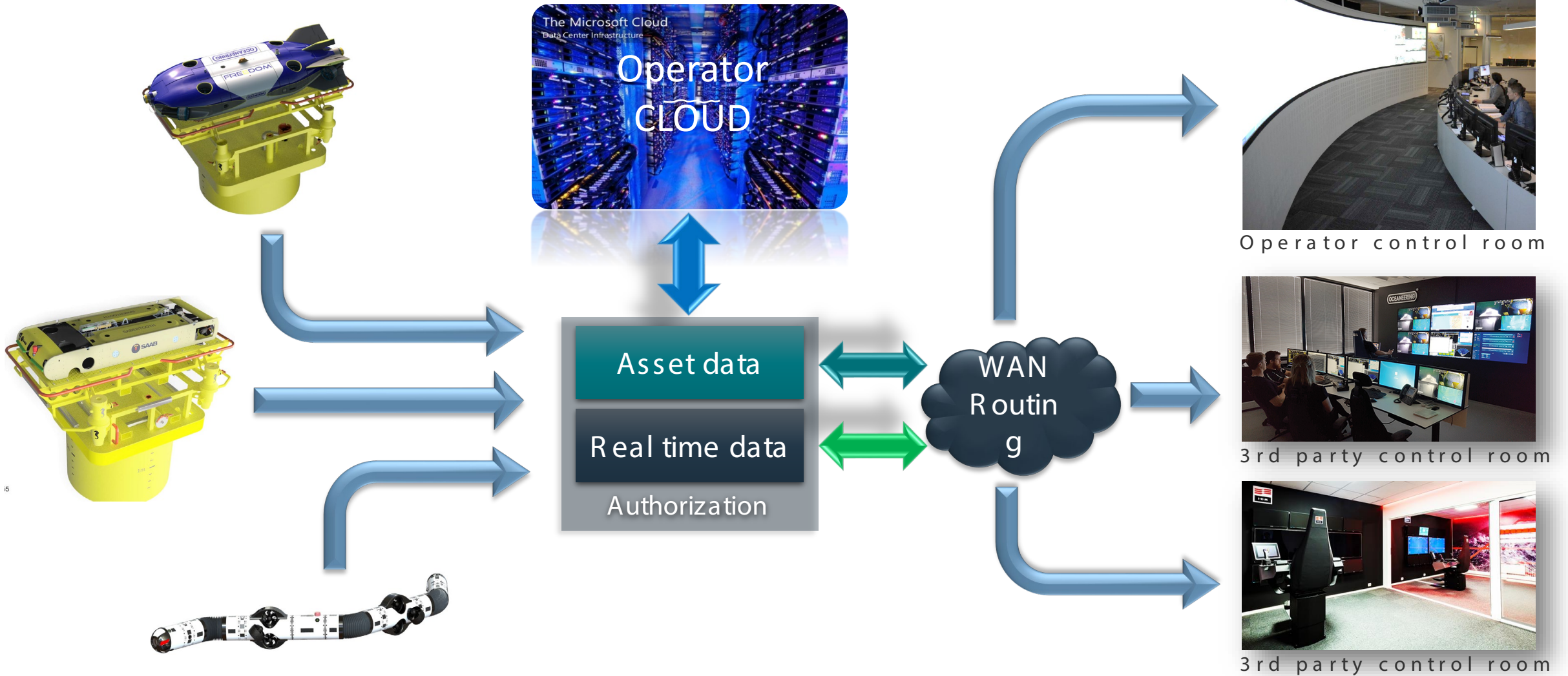
15

Testing and qualification

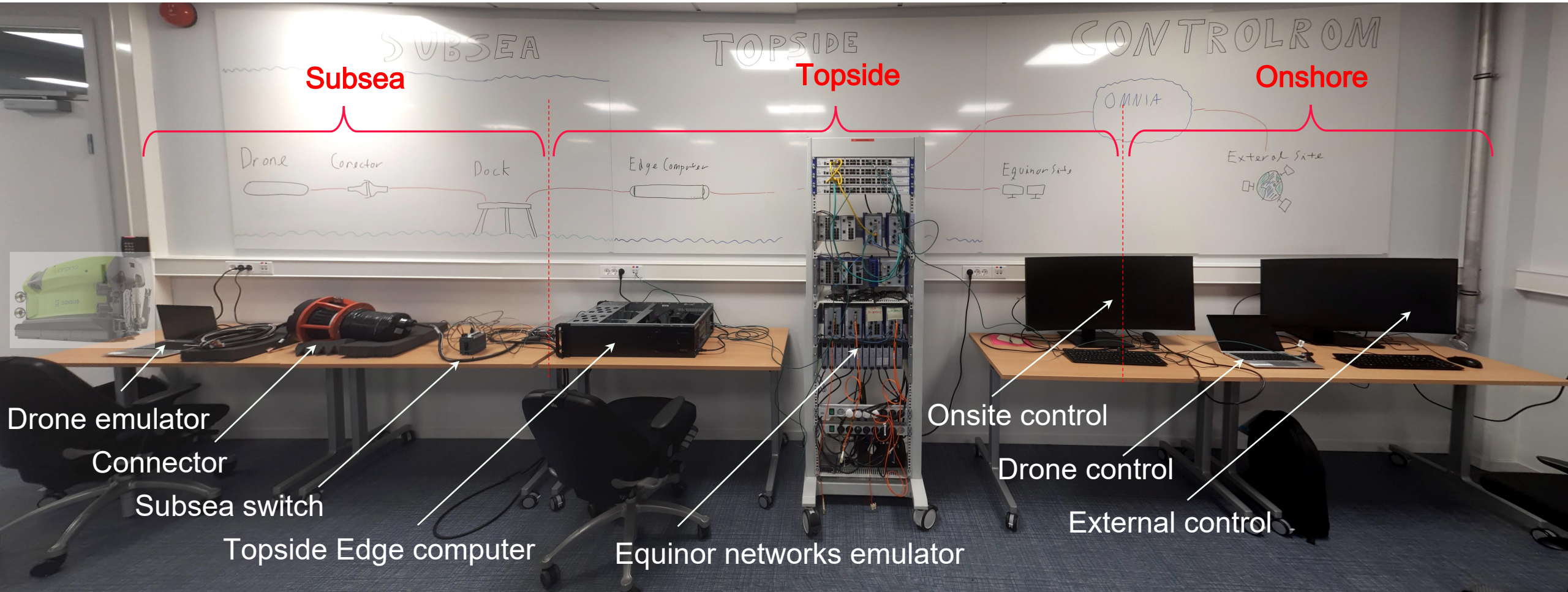




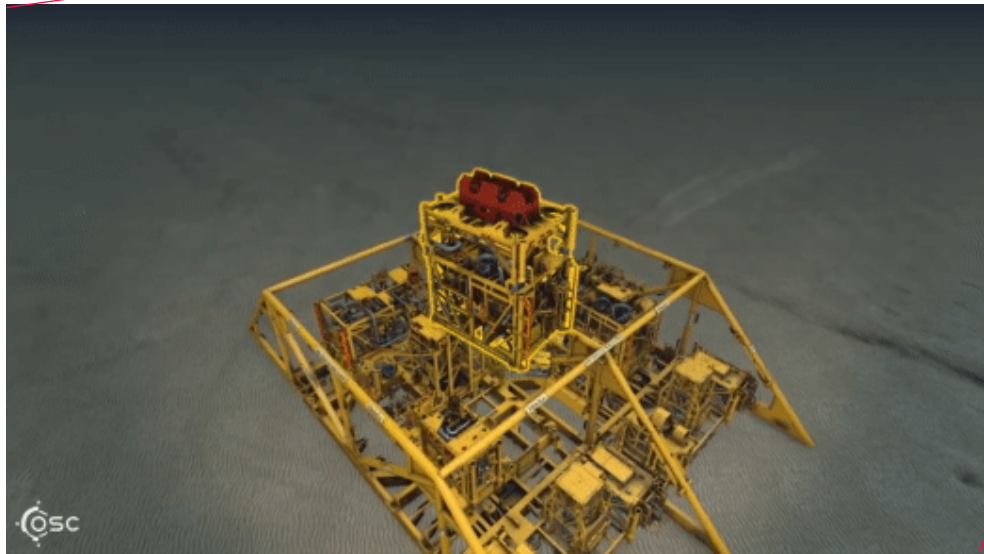
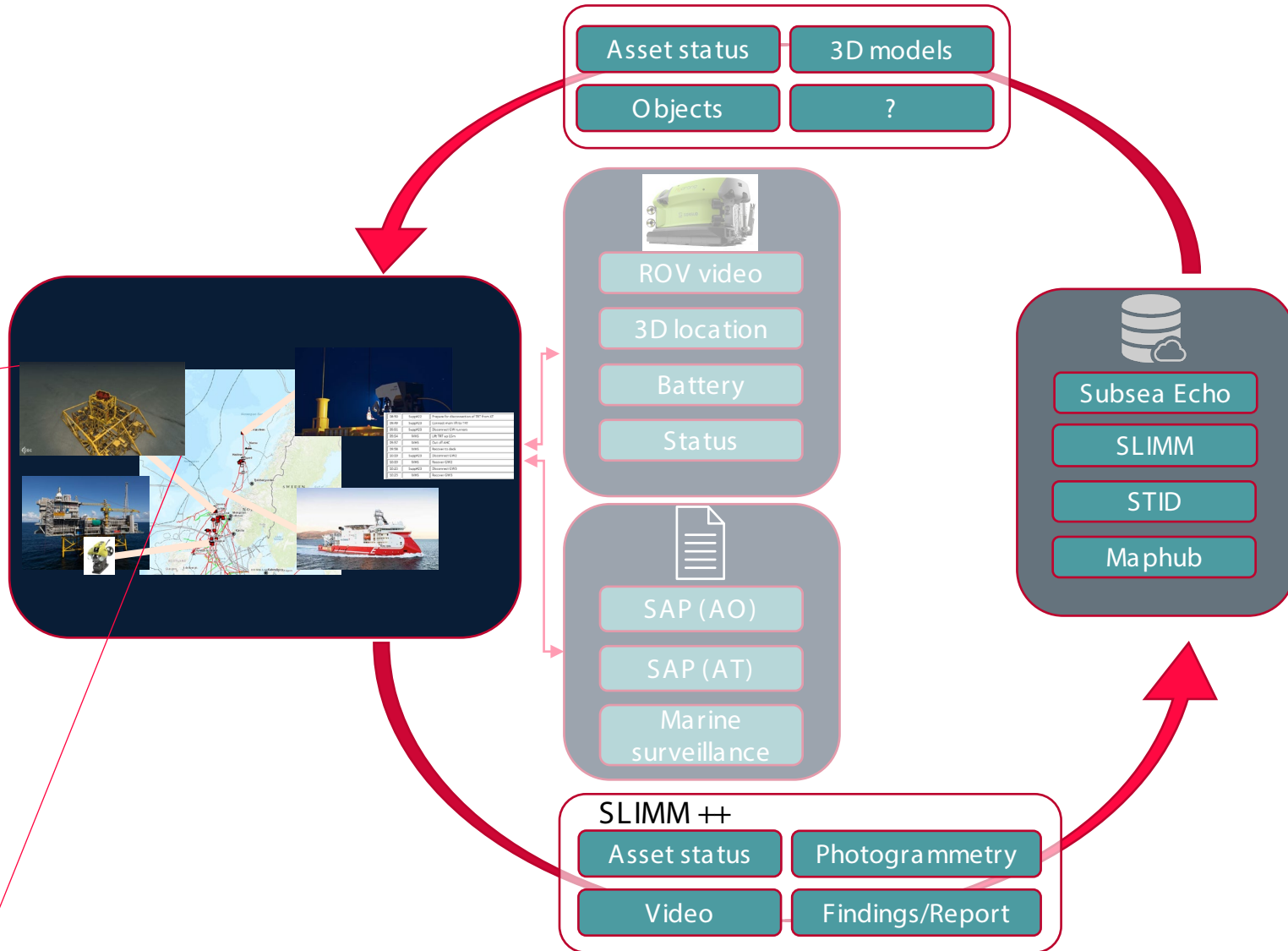
The challenge: Dynamic flow of drone data



Drone network architecture development and testing



Real-time operations in 3D



Perform

Learn/Save



Jan Christian Torvestad

Principal Engineer

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