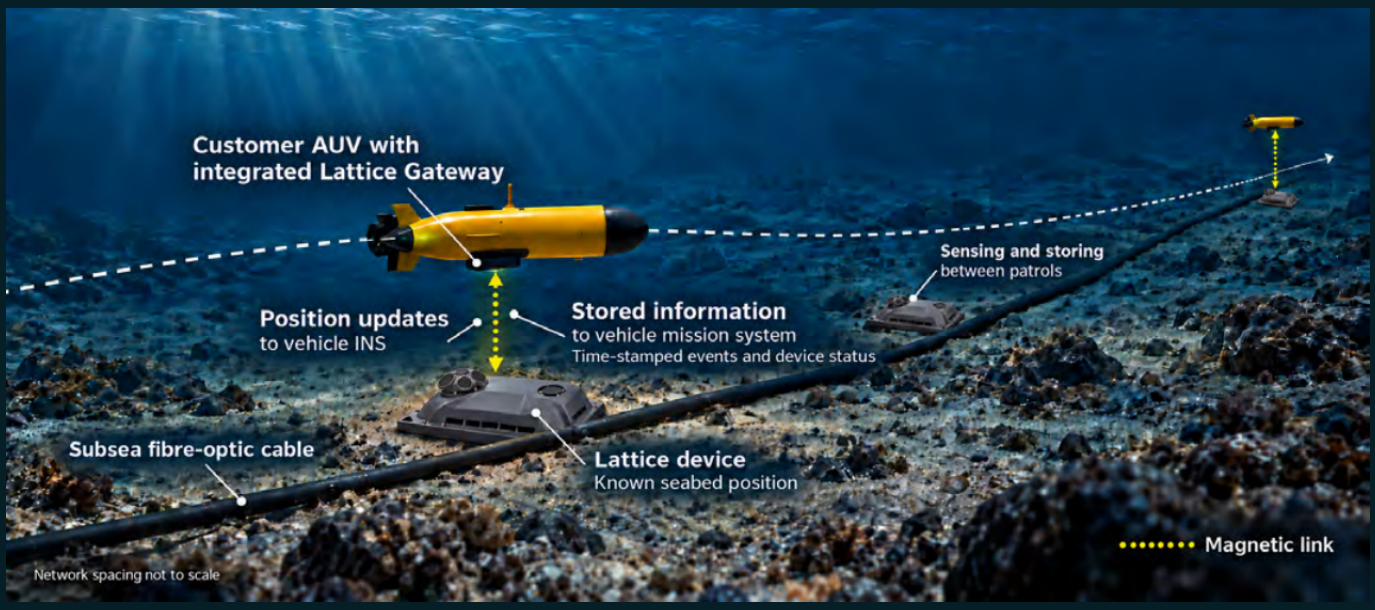
Ocean Information Services
Autonomy for the Environment

STAY-ON-MISSION JIP

Autonomous Operations | Phase 5

Persistent subsea awareness with reduced vessel dependence.

For offshore energy, security and defence. Completion: first half of 2027.



Autonomous operations qualification programme for AUVs

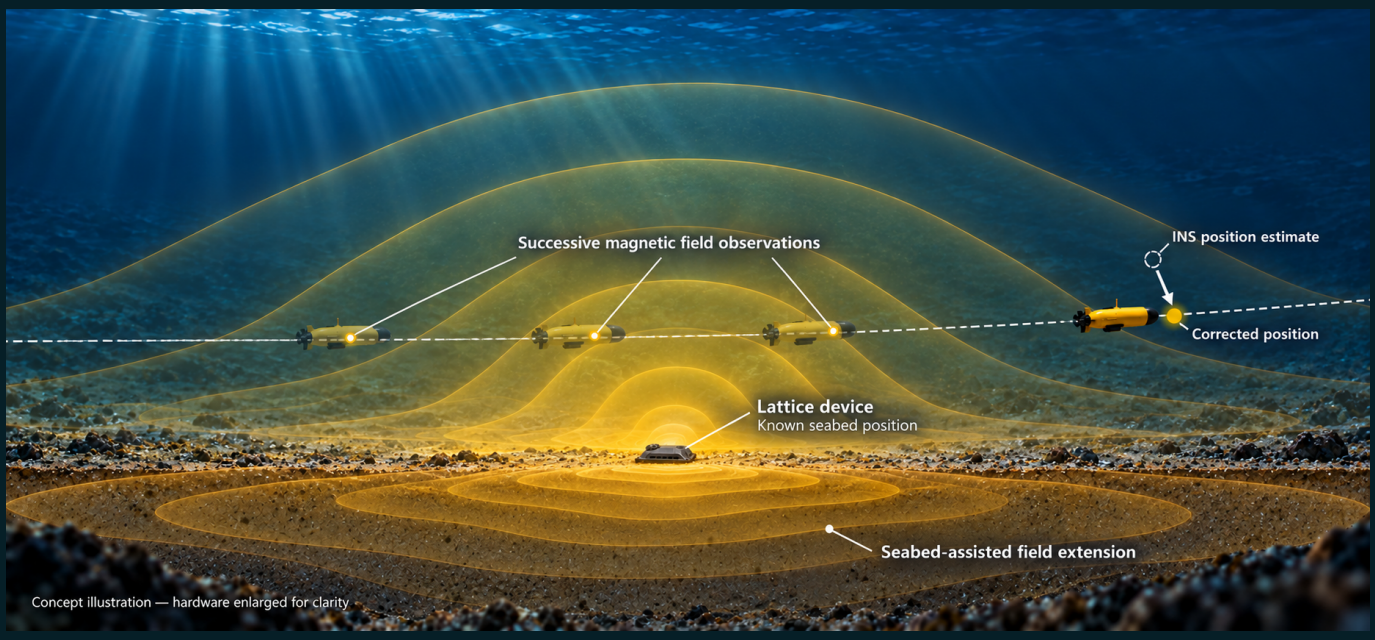
The programme qualifies autonomous underwater vehicle (AUV) operations using Lattice Neptune, the subsea monitoring, wireless information recovery and navigation system. Lattice VMS monitors vibration and underwater sound. Vehicle-mounted Lattice E-Field measures electric-field gradients for corrosion and cathodic-protection assessment.

Keeping AUVs on mission

Inertial navigation system (INS) correction helps AUVs follow planned routes and return to inspection locations. The JIP tests navigation, two-way information exchange and sensing together, so an AUV can recover stored information while continuing inspection or security patrols.

Reduce cost and operational risk

Critical infrastructure continues to change between inspections. Persistent sensing and AUV information recovery help operators focus inspection and intervention where needed. The aim is better information at lower cost, with fewer vessel visits, reduced personnel exposure and a lower environmental footprint.



Oil and gas: lower cost and operational risk

Pipeline and riser monitoring covers vibration and flow-related movement, alongside corrosion and cathodic-protection assessment, to target inspection and intervention.

Offshore wind and interconnectors

Persistent information from selected locations across cable infrastructure helps prioritise inspection and investigate changes. AUV navigation and information recovery are intended to support repeat visits with reduced vessel dependence.

Security and defence

Persistent sensing and AUV information recovery support cost-effective subsea information for command and control (C2), tasking and patrols across wide areas. Information is retained between visits for onward delivery to customer systems.

Qualification and participant outputs

Bench, tank and planned sea trials assess integrated performance against agreed qualification criteria. Participants shape requirements and share costs. Outputs include integration and trial findings, datasets, and a final technical assessment of performance, operating limits, achieved TRL and further deployment needs.

Planned TRL progression

Sector	Framework	Start	Target
Oil and gas	API RP 17Q (0-7)	4	5
Offshore wind	UK / ORE Catapult (1-9)	4	6
Defence	UK MOD (1-9)	4	6

Technology readiness level (TRL) targets apply to the integrated configuration and depend on trial results and assessment.

Discuss your application and participation with Brendan Hyland.

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