

EMSO Observatory Knowledge Catalogue

A simplified and human-readable overview
generated from the OSO knowledge graph

Supporting FAIR interoperability for EMSO observatories

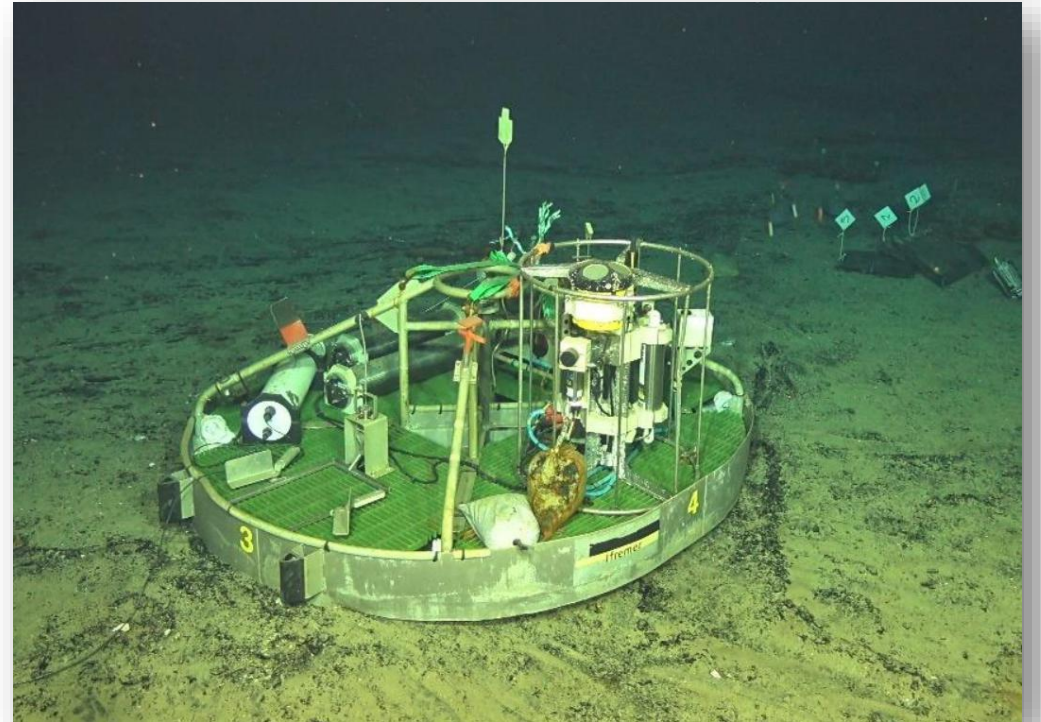


What is EMSO?

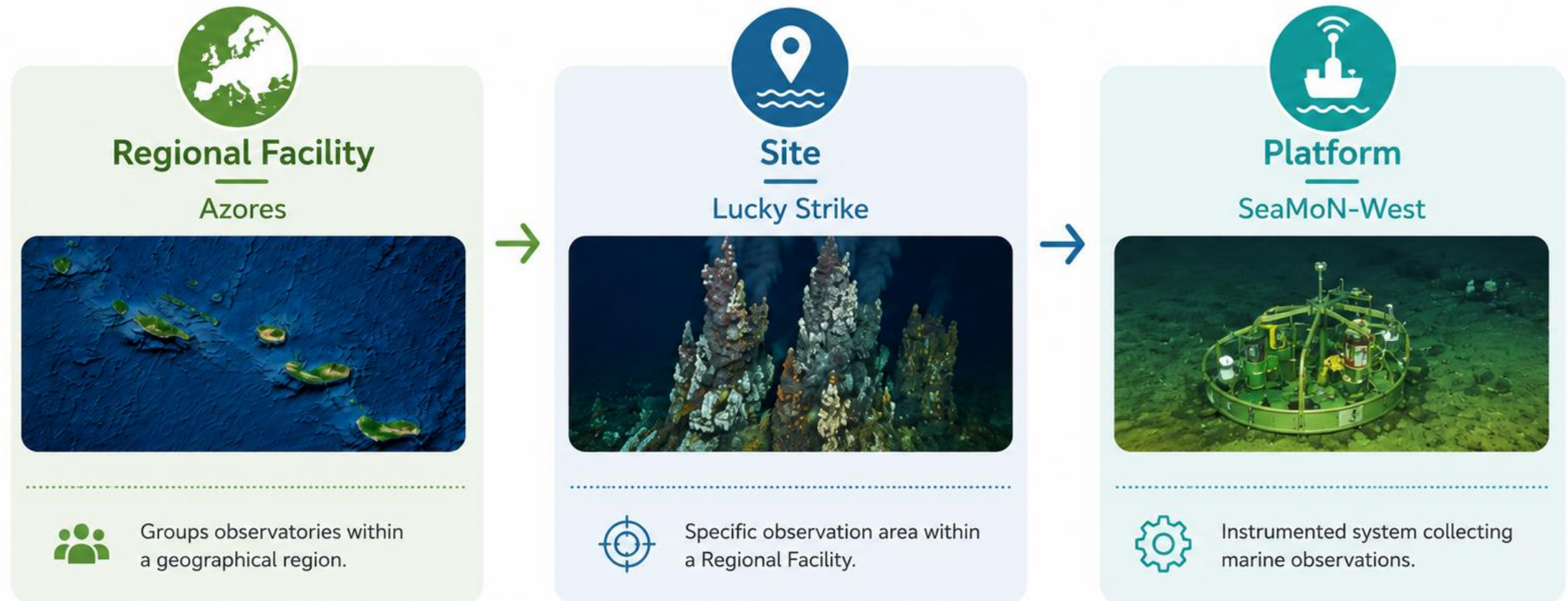
- European Research Infrastructure Consortium (ERIC)
- Long-term seafloor and water column observatories
- Distributed across European seas
- Supporting marine science and environmental monitoring

OSO helps harmonise and connect EMSO observatories through a shared knowledge graph.

SeaMoN-West observatory platform
Azores EMSO Regional Facility (Ifremer, 2025)

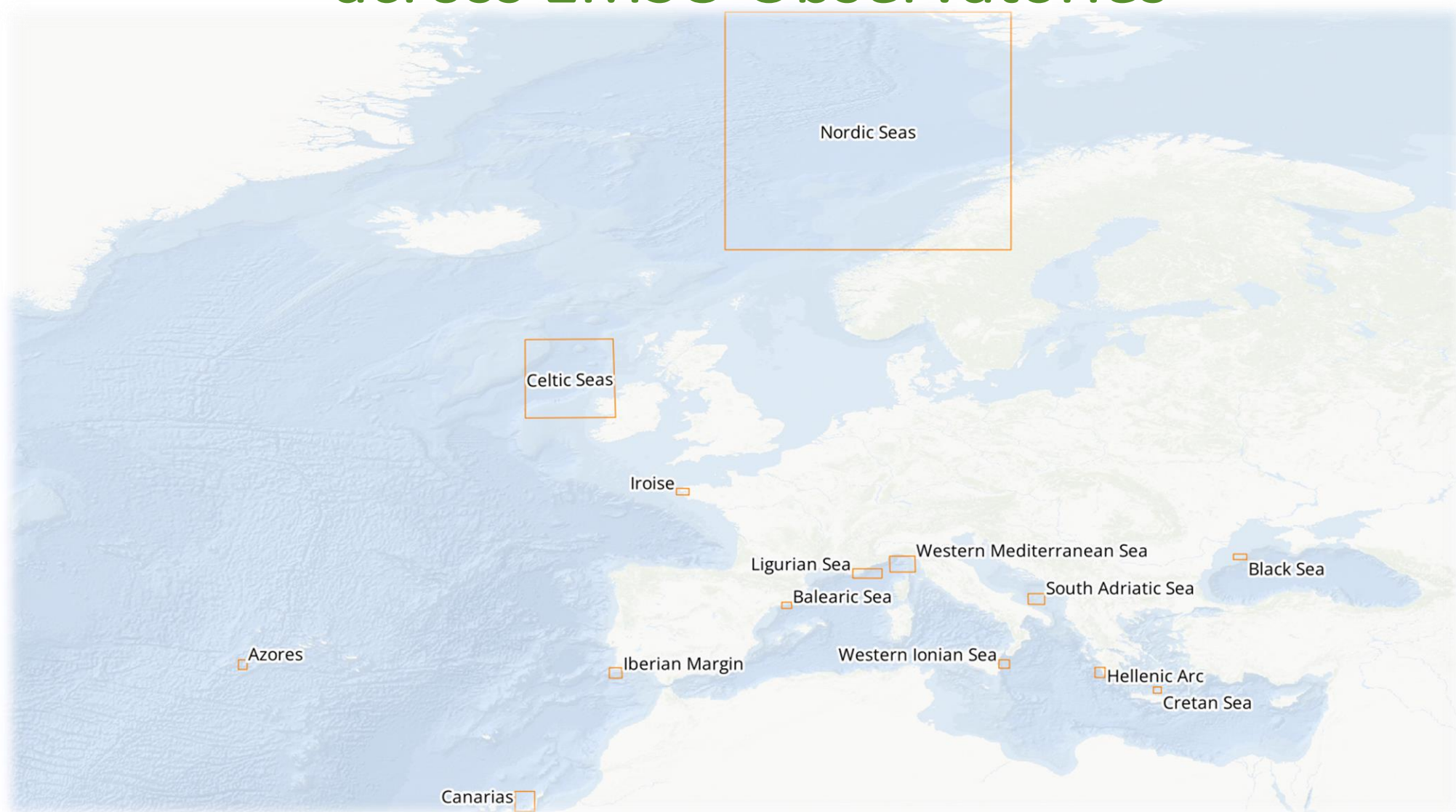


How does OSO structure EMSO observatories?



OSO provides a shared and harmonised structure to describe EMSO observatories across Europe.

OSO supports interoperability across EMSO Observatories



OSO links international marine reference systems



Why does it matter?



FAIR

- ✓ Discoverable
- ✓ Reusable



Interoperability

- ✓ Shared semantics
- ✓ Cross-platform



AI-ready

- ✓ Machine-readable
- ✓ Knowledge graph



European RI

- ✓ Distributed
- ✓ Federated

Explore OSO

emso-eric.github.io/oso-ontology/share/



Observatories of the Seas Ontology (OSO)

A FAIR ontology for marine observatories
and interoperable marine data infrastructures.

