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Blue-Cloud 2026: thematic node for marine research and an incubator for the EU DTO

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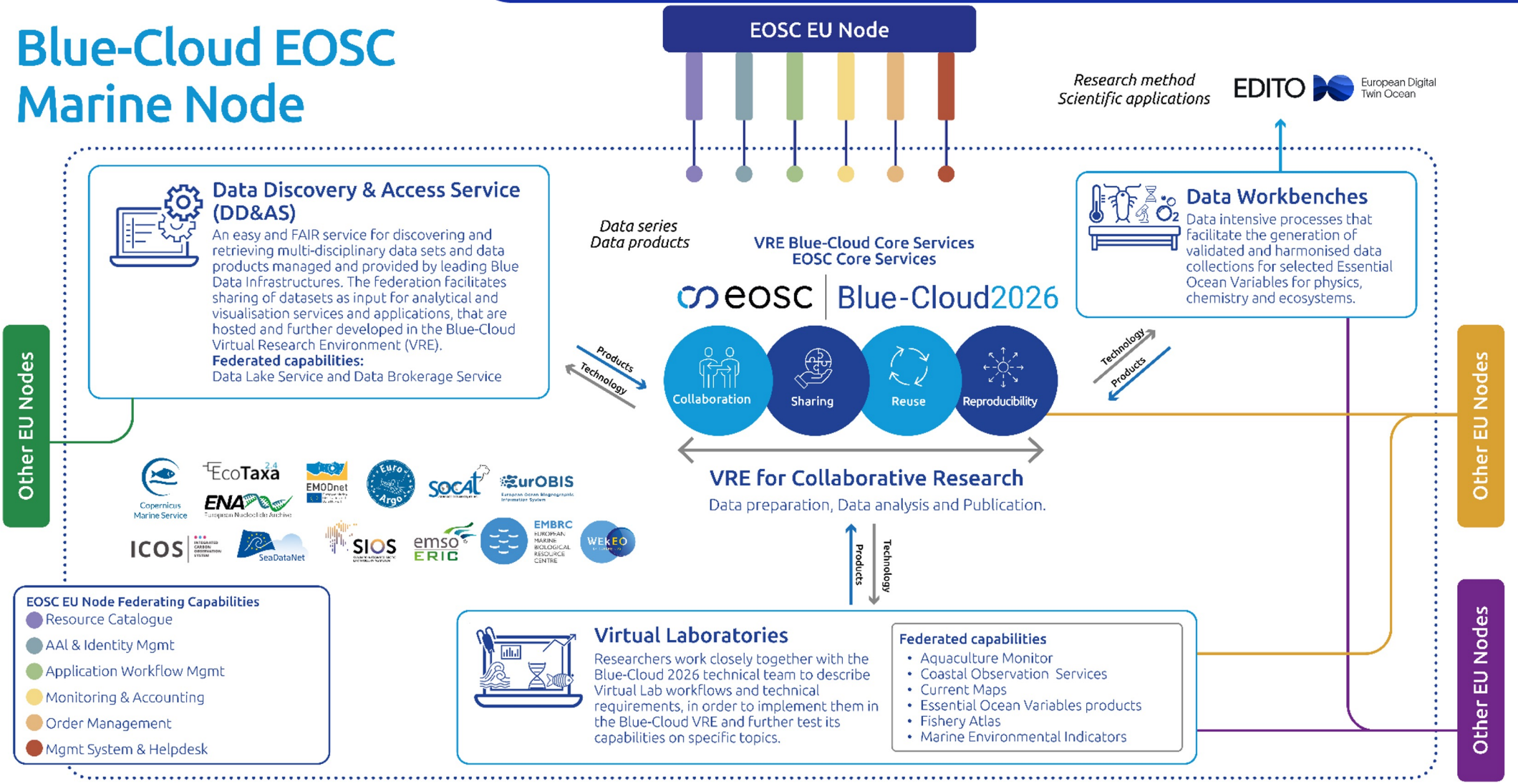
Blue-Cloud federation: towards an EOSC thematic node for marine research

Blue-Cloud EOSC Marine Node



Blue-Cloud an an incubator for the DTO

European Digital Twin Ocean

EDITO Infra

VLIZ

Stimulating Ocean Best Practices

- The Blue-Cloud project's ambitions and achievements are built on strong foundation of **Ocean Best Practices**
- Not least in the field of **syntactic** and **semantic harmonisation**
- **>50 years** ago, work on harmonisation started within the IODE's network of National Oceanographic Data Centres
- In Europe, it inspired the formation of a strong network of marine organisations bordering European seas, agreeing to **follow common standards and best practices** to make their data assets more accessible and exchangeable
- Using this legacy and **semantic mappings**, we are demonstrating that it is possible to harmonise across multiple infrastructures
- Future best practices will require more systematic use of **FAIR vocabularies** and **URIs** to enable faster and more automated workflows

Slide courtesy:
Gwenaëlle Moncoiffé and Alexandra Kokkinaki, NOC-BODC

As Blue-Cloud **we work together with multiple Research Infrastructures** in the marine and ocean landscape with the aim to innovate and strengthen the FAIRness of their data, metadata and machine services.

- encouraging uptake of c**ontrolled vocabularies** and providing vocabulary mappings for semantic interoperability
- **enriching metadata** and data with a set of common metadata tags for syntactic interoperability
- **streamlining and documenting web services** for composability of service chains

We offer a flexible, dynamic, and powerful Virtual Research Environment for open science for a large community of researchers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Blue-Cloud
Federation Workshop
6 November 2024 | Lisbon, Portugal
In this workshop, we aim at assessing Blue-Cloud federated services towards the needs and challenges of other research infrastructures active in marine and climate research, ultimately stimulating a debate around the impact of open science federation in practice.
With: Euro-Argo ERIC, eLTER-RI, ICOS ERIC, EMSO ERIC, EUROBIS, CLIMAREST
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