

EDITOInfra

European Digital Twin Ocean

EU Public Infrastructure for the European Digital Twin Ocean

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Goal

The main aim of EDITO-Infra, the “EU Public Infrastructure for the European Digital Twin”, is to build the EU Public Infrastructure backbone for the European Digital Twin of the Ocean (DTO) by **upgrading, combining** and **integrating** key service components of the existing EU ocean observing, monitoring and data programmes ***Copernicus Marine Service*** and the ***European Marine Observation and Data Network*** into a **single digital framework**



Consortium

Two identified beneficiaries:

- MOi
- VLIZ
- Duration: 2 years (end 2024)

• **EDITO 2: 2025-2029**

European Digital Twin of the Ocean

A leap in ocean knowledge
and sustainable action



Facilitate the scientist work

1. **Limit data transfer** as datasets become bigger (spatial, temporal dimension)
higher resolution
2. **Simplify** high-performance computing (**HPC**) accessibility

Enable **effective data subsets** and **near-data computing**

Facilitate the contribution to the ocean science

1. **Improve FAIRness (Findable, Accessible, Interoperable, Reusable)** of data and processes
2. **Easily involve more parties** instead of identified institutes

Offer **efficient tools** in an **open and collaborative platform**

EDITO-Infra: FAIR / STAC

- SpatioTemporal Asset Catalogs
- The STAC specification is a **common language to describe geospatial information**, so it can more easily be worked with, indexed, and discovered.
- Catalogue of parameters (CF, BODC, ..)



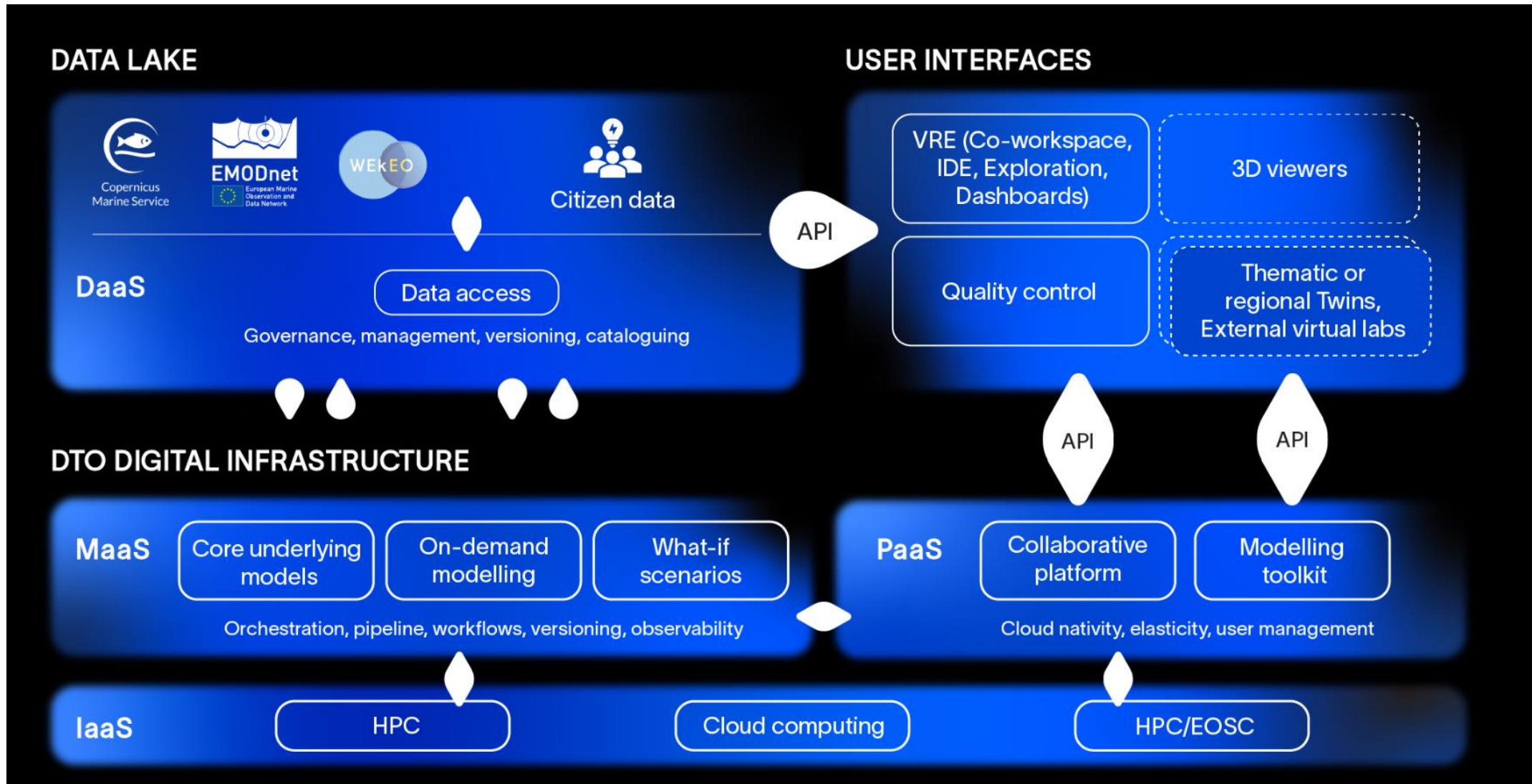


EDITO-Infra: Cloud optimized

- Subsetting (improved performance)



EDITO-Infra: Components



EDITO-Infra: Offer

The European Digital Twin Ocean Offer

Explore

Use the Digital Twin Ocean platform



Create

Build your external third-party services



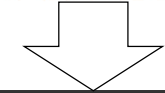
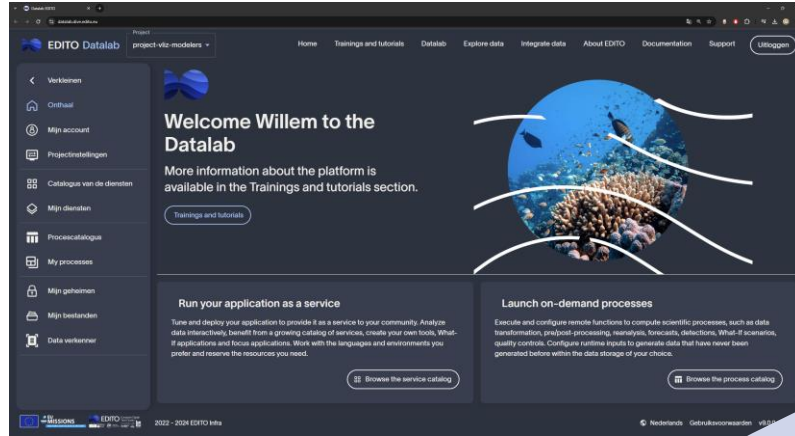
Contribute

Add data & services to the Digital Twin Ocean platform



<https://datalab.dive.edito.eu/>

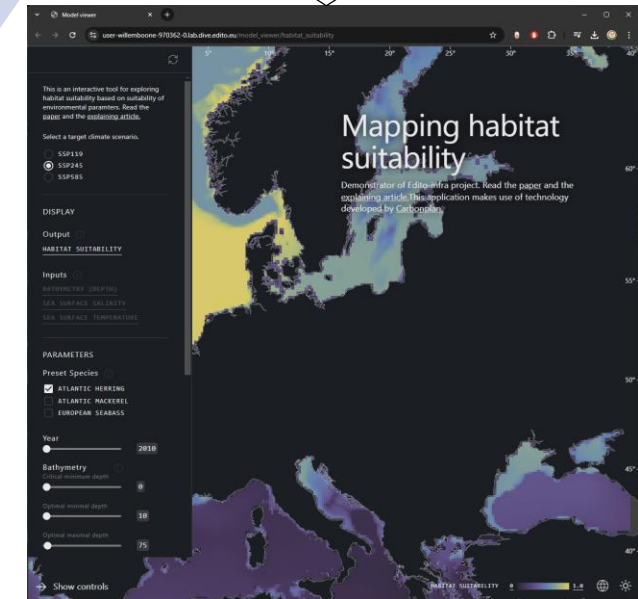
EDITO-Infra demo



Deploy
data &
application

Processing
data

Accessing
data



<https://datalab.dive.edito.eu/>

