

Mission Restore our Ocean and Waters



Cross-cutting enablers for the mission:

- Digital Ocean and Water knowledge system
- Public mobilisation and engagement

PROTECT AND RESTORE MARINE AND FRESHWATERS ECOSYSTEMS AND BIODIVERSITY

PREVENT AND ELIMINATE POLLUTION OF OUR OCEANS, SEAS AND WATERS

MAKE THE BLUE ECONOMY CARBON-NEUTRAL AND CIRCULAR



Support effective water management through a digital knowledge system with a Digital Twin Ocean and improved environmental monitoring, forecasting and "what if scenarios" of ocean health.



Create a network of lighthouses at sea and river basin scale to implement the mission and expand the networks of marine protected areas;



Establish an EU-wide 'Blue Parks' initiative to provide new restoration and conservation opportunities;



European Digital Twin Ocean - EDITO

Connecting the European Assets

Contractual and Formal situation



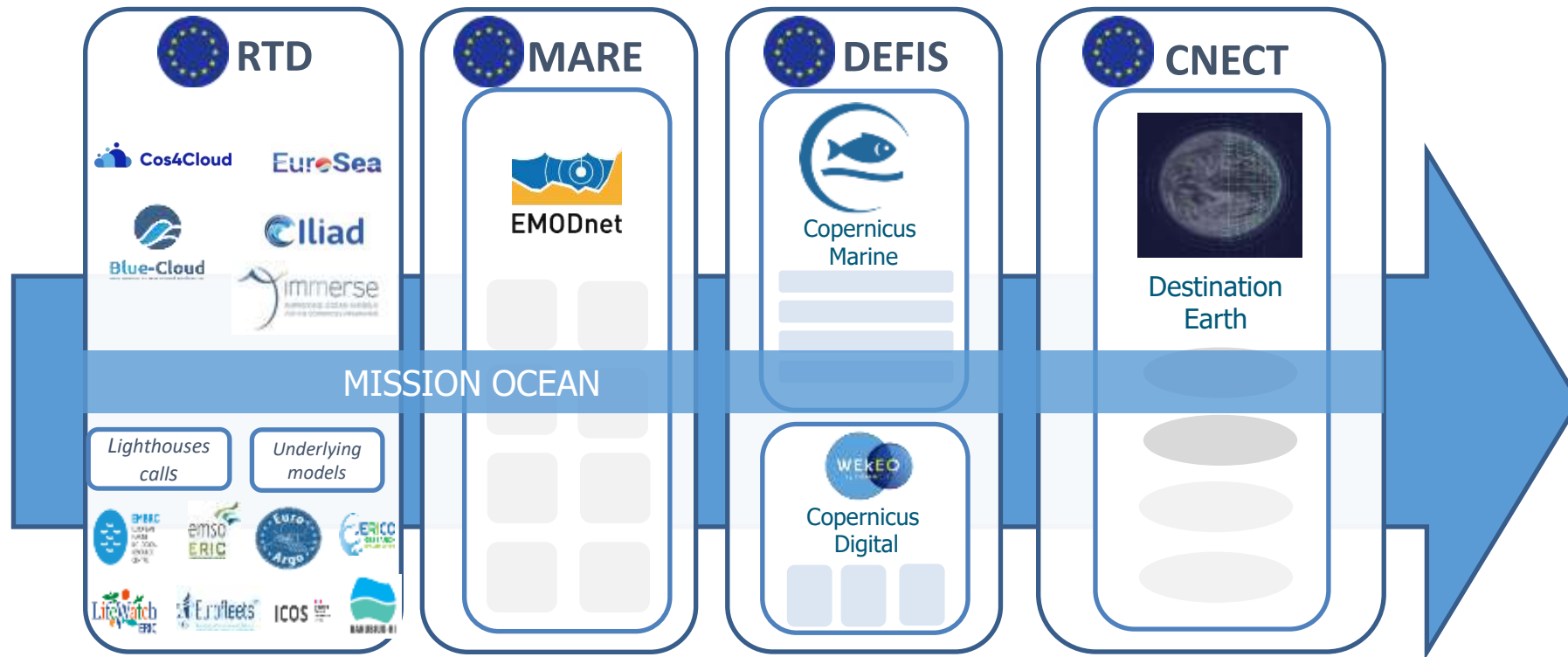
EU Public Infrastructure for the European Digital Twin Ocean

[HORIZON-MISS-2021-OCEAN-IBA-01]

- **Grant to identified beneficiaries, MOi & VLIZ representing CMEMS and EMODnet**
- **Budget: 2,999,850.00 €**
- **Agenda: start October 1st, 2022**
 - Kick-Off Meeting: November 2022
 - Intermediate Review: January 2024
 - Final review: October 2024



Under the MISSION OCEAN, EDITO is made in collaboration with 4 EU DGs



Innovation projects

Observations and databases

Modelling and services

Infrastructures and integration

Connecting the European Assets

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EDITO

European Digital
Twin Ocean



EDITO provides an architectural basis for the interconnection of assets



EDITO will set up a federated data lake



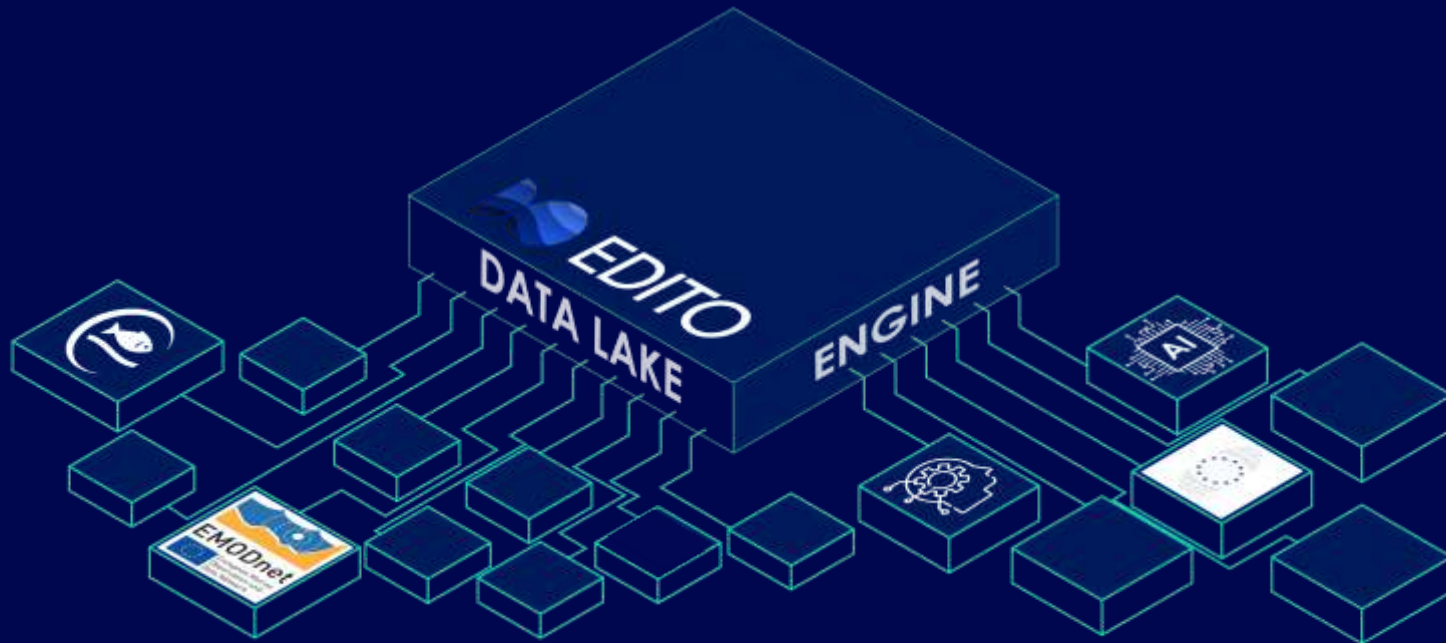
This data lake will enable seamless access to the whole EMODnet and CMEMS data



In addition EDITO infra will set-up a processing engine



The processing engine will allow to launch models, AI Machine Learning, Hybrids models and applications





EDITO
DATA LAKE
ENGINE

EMODnet

AI



Federative, inclusive and open concept

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EDITO

European Digital
Twin Ocean





Technical architecture of EDITO

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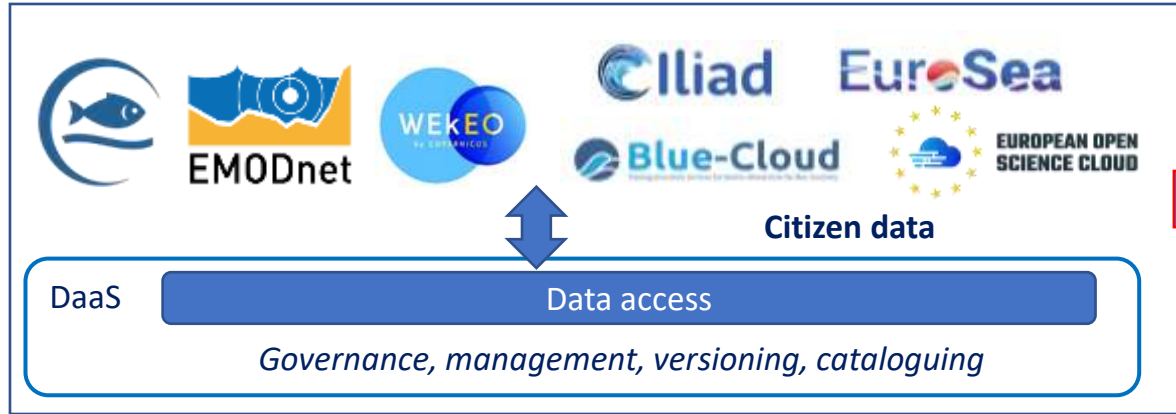
EDITO

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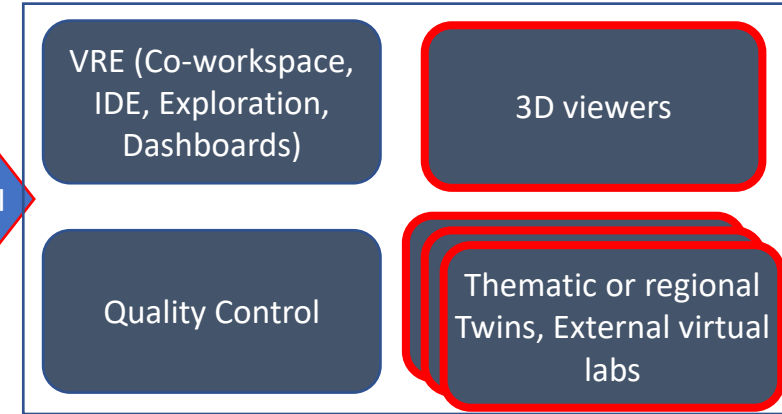


Technical Architecture

Data lake



User interfaces



DTO digital infrastructure

