

EDITO platform introduction

Digital Ocean department

Mercator Ocean international







Summary

- 1. EDITO definition
- 2. Platform overview
- 3. Upcoming features





European Digital Twin of the Ocean

A leap in ocean knowledge and sustainable action



An evolution of marine data portals

Facilitate the scientist work and reduce costs

- **1. Limit data transfer** (dataset sizes ∠)
- 2. Ease supercomputer access (complex integration ())
 - → Enable effective data subsets and near-data computing



→ Scale up and down resources to actual usage



Facilitate contribution

- 1. Improve FAIRness and reproducibility (complex visibility 🏵)
- 2. Integrate non-institutional parties (tedious involvement 2)
 - → Offer **efficient tools** in an **open and collaborative** way
 - → Deliver a **highly-available platform**





Definition

Integrate data from other European platforms, such as Copernicus Marine Service and EMODnet.

An exhaustive reference to all ocean data products available

EDITO is a **European** platform that provides a single point of entry to search,

explore and exploit products and knowledge to support digital twins of the ocean.

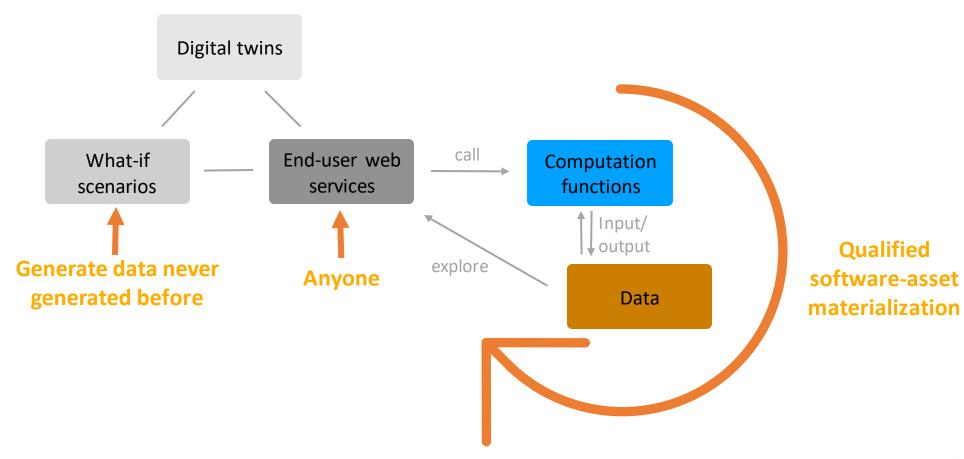
User can add new data to the platform either directly (upload) or by deriving existing data to create new data using computational functions.

All processes provided by the platform are exposed through OGC API processes standard for a seamless third-party integration

STAC API supporting metadata-

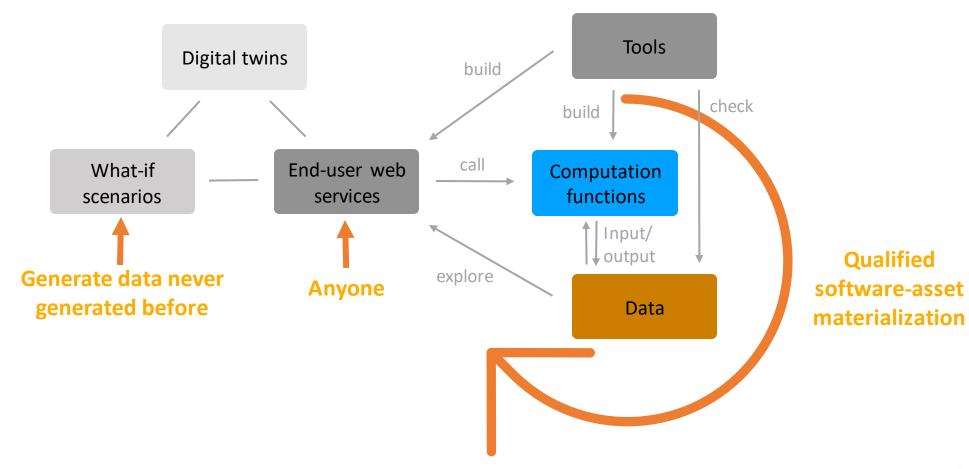


Digital twin challenge



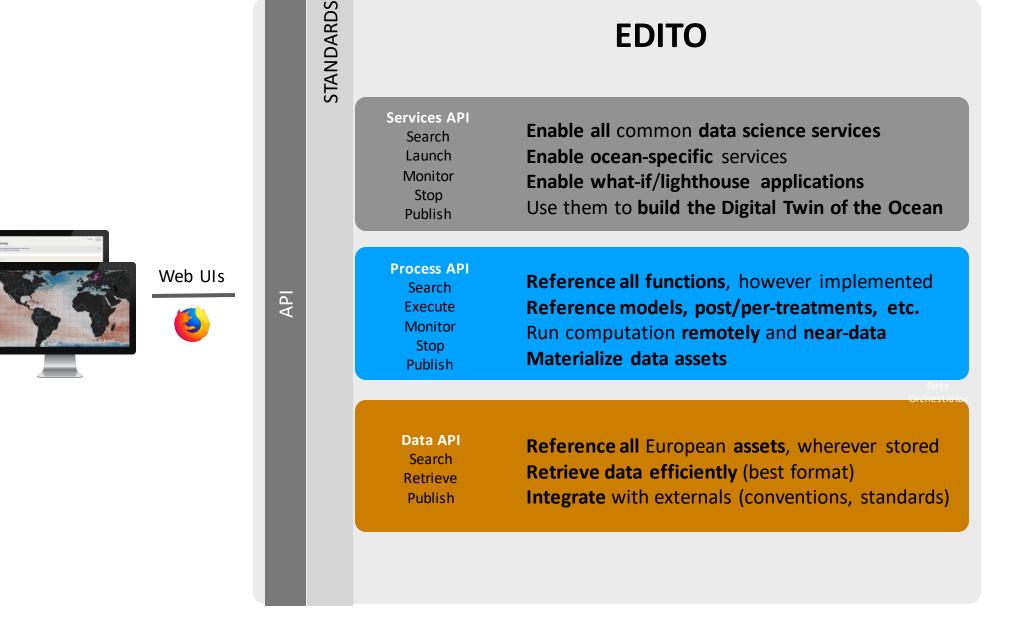


Digital twin challenge



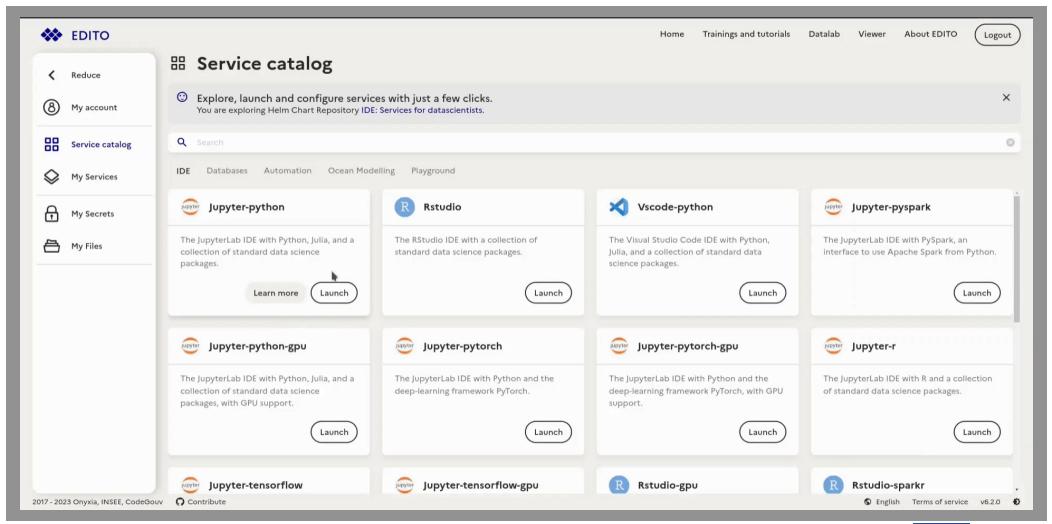


EDITO feature design criteria





Launch a service



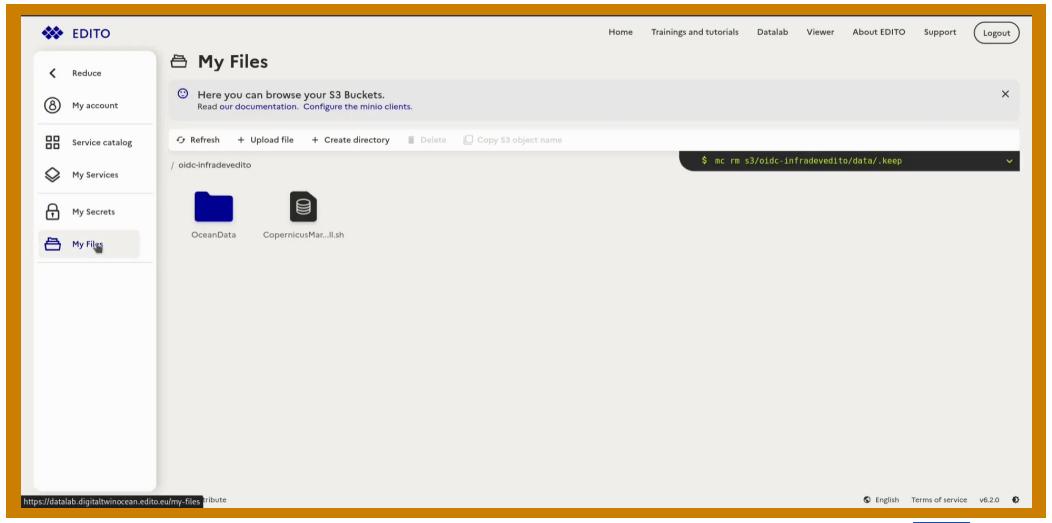








EDITO User Data



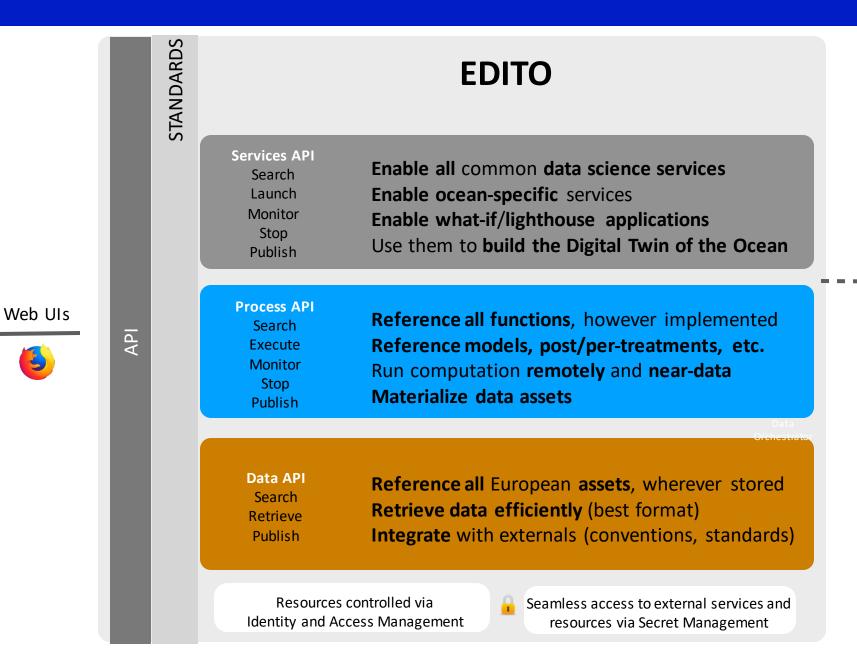








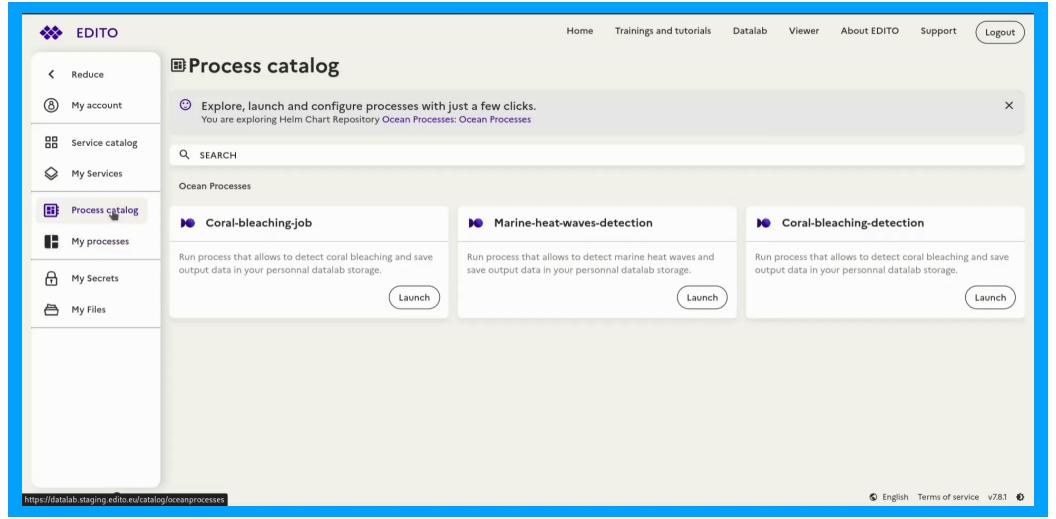
EDITO interoperability design criteria





EuroHPC

EDITO Processes





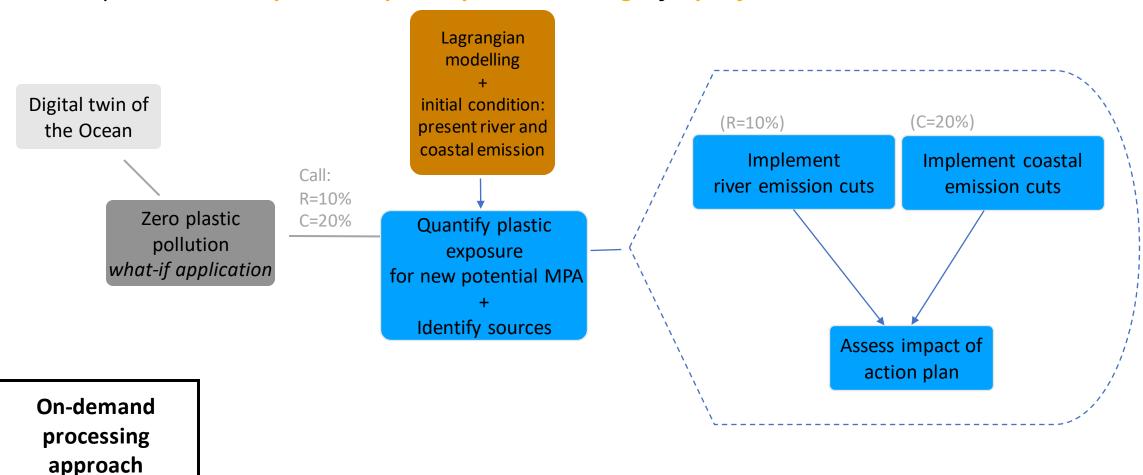






How you can build what-if scenarios on EDITO all-in service

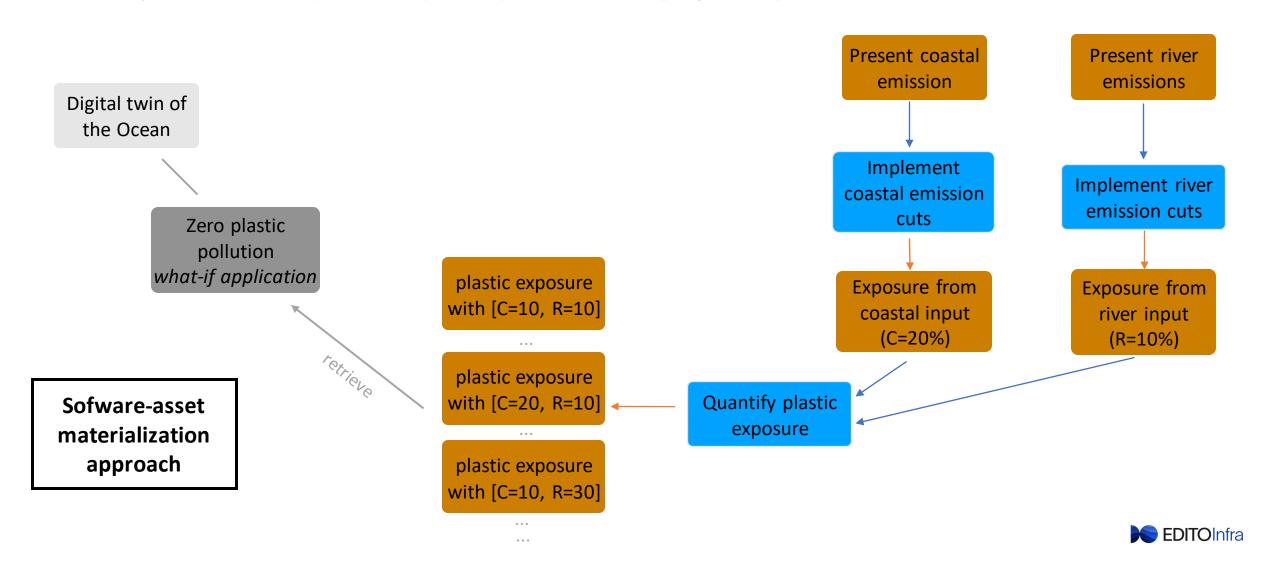
Example: How will exposure to plastic pollution change if input from river or coasts are reduced?



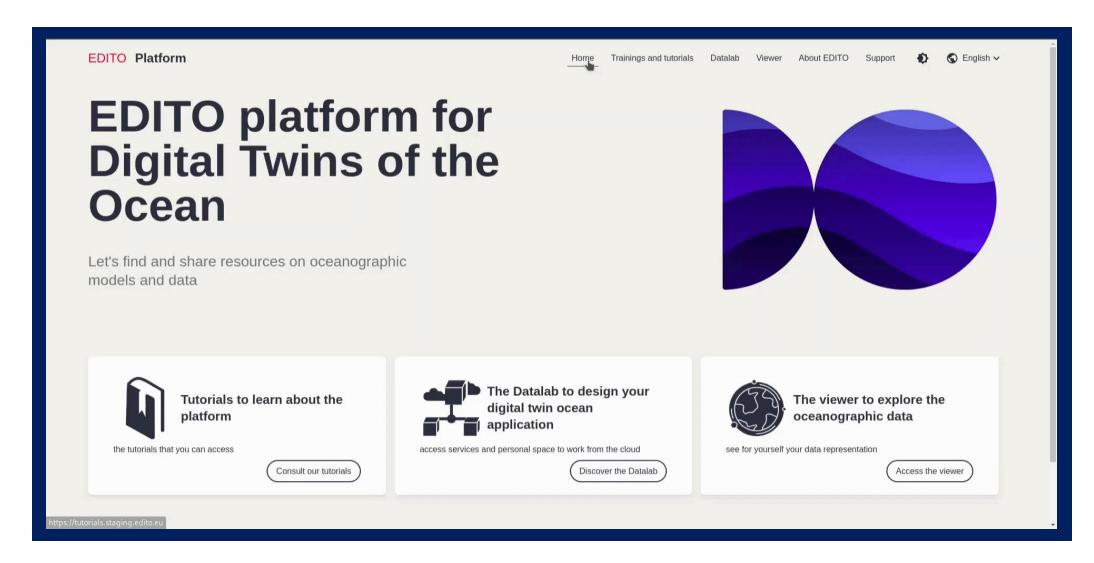


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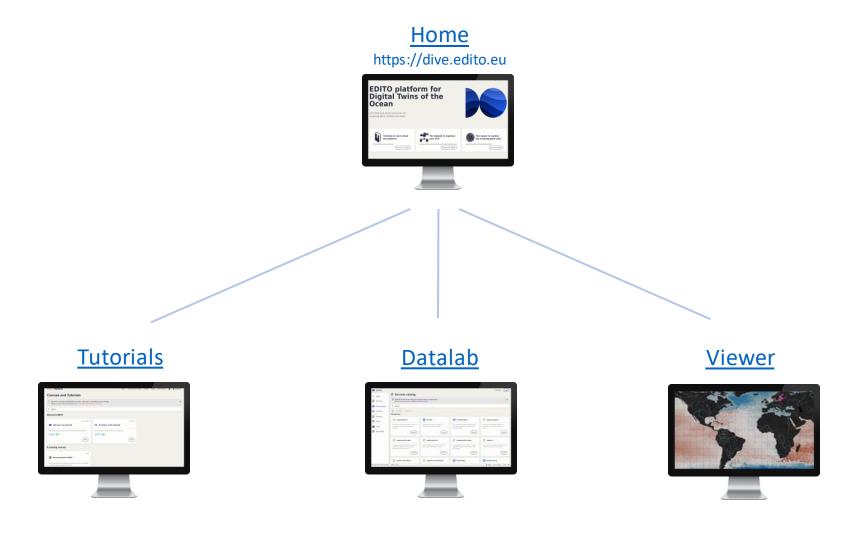


Get started with EDITO





Get started with EDITO





The development team



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