- To explore and demonstrate the potential of **cloud based open science** supporting research for ocean sustainability, and UN Decade of the Oceans and G7 Future of the Oceans

- To deploy a **cyber platform with smart federation** of multidisciplinary data repositories, analytical tools, and computing facilities

- To develop a **marine thematic European Open Science Cloud (EOSC)** serving the blue economy, marine environment & marine knowledge agendas

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- Developing and deploying a Virtual Research Environment (VRE) with an array of services for configuring and running virtual labs for specific analytical workflows, use cases and demonstrators

- Applying common standards and interoperability solutions for providing harmonized metadata and data

- Developing and deploying harmonized discovery and access to established European marine data management and processing infrastructures

Added-value services and Applications
VRE – Cloud Platform
Downstream services

Standards
OGC, ISO, W3C
Vocabularies

Upstream services

Discovery and Access to data sets from many resources
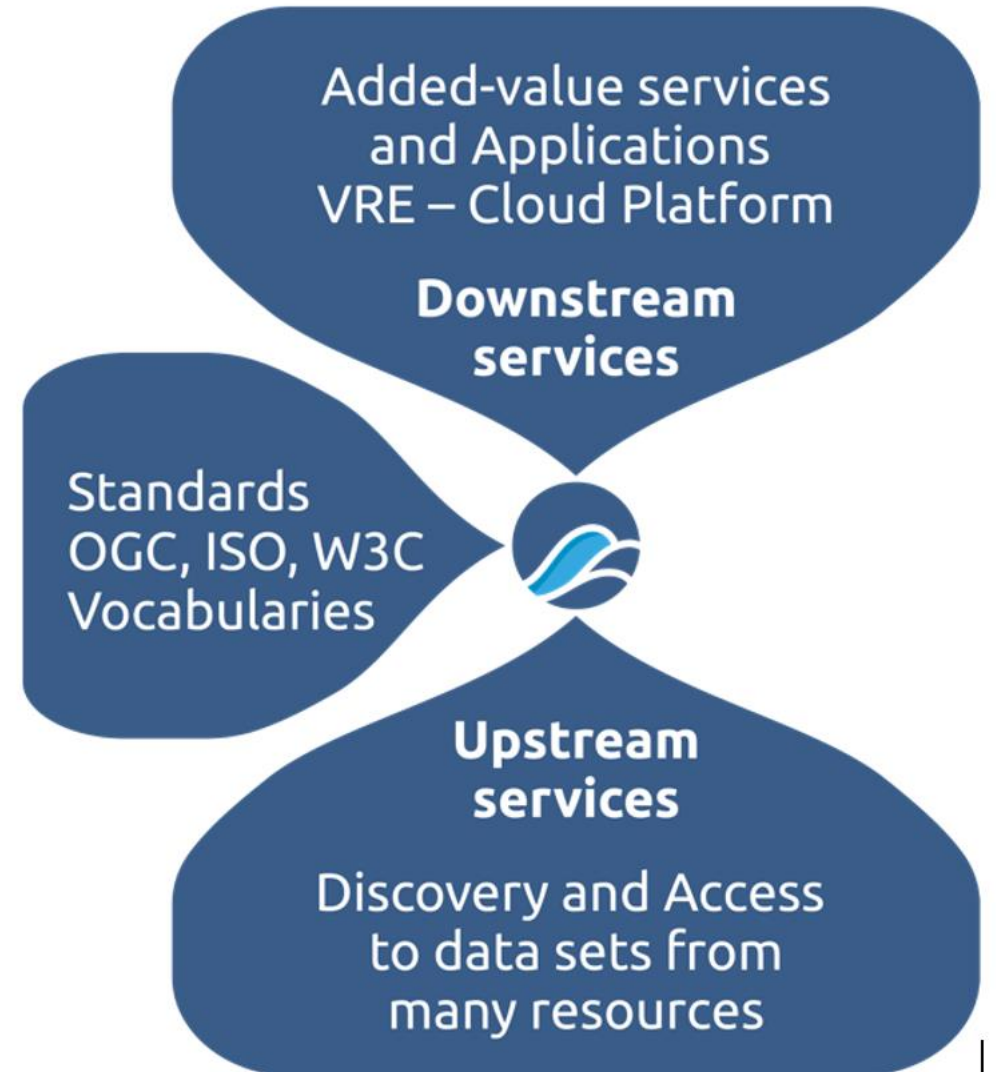
- **Blue-Cloud Data Discovery & Access service**, federating key European data management infrastructures, to facilitate users in finding and retrieving multi-disciplinary datasets from multiple repositories
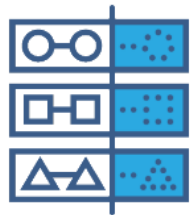
- **Blue-Cloud Virtual Research Environment infrastructure** to provide a range of services and to facilitate orchestration of computing and analytical services for constructing, hosting and operating Virtual Labs for specific applications

- **Blue-Cloud Virtual Labs**, configured with specific analytical workflows to serve as **Demonstrators,** which can be adopted and adapted for other inputs and analyses

Fish a matter of scales

Aquaculture Monitor

Zoo & Phytoplankton EOV products

Plankton Genomics

Marine Environmental Indicators

eosc | **Blue-Cloud2026**

MISSION: To develop further the European federation of marine and inland water data management infrastructures & high quality services

A1. DD&AS
A FAIR compliant Data Discovery & Access Services > access to 10+ million open data sets & products by 13 major BDIs

A2. VRE
An Open Science Virtual Research Environment (VRE) federating multiple e-infrastructures > supporting Analytical Big Data Workbenches & VLabs

A3. EOVs
3 EOV Workbenches for highly qualified data collections

3.000 DATA ANALYTICS SESSIONS PER MONTH - 5,000 HTC DATA ANALYTICS JOBS PER MONTH

A4. VLABs - FIVE DOMAIN-BASED VIRTUAL LABS

Coastal Ocean observations along Europe

Coastal currents from observations

Carbon-Plankton Dynamics

Marine Environmental Indicators

Global Fisheries Atlas

A7. COMMUNITY
- **All EU countries** engaged
- **3k+** engaged Blue-Cloud community users
- **5k+** followers across all the platforms
- **10+** External Stakeholders

OUTREACH
- **1** Blue-Cloud Hackathon
- **1** Blue-Cloud TV
- **18** Newsletter issues
- **11** Webinars on Blue-Cloud VRE, DDAS & EOV Workbenches
- **3** Blue-Cloud Annual Impact Events
- **3** Ocean Literacy Webinars
- Videos & Interviews

A6. TRAINING ACADEMY & CATALOGUE
- **3** Online training course on Best Practices for FAIR data principles
- **3** Info session & course on the EOV Workbenches
- **2** online webinars dedicated to the BlueCloud VRE
- **2** dedicated to the DDAS and the innovations introduced
- A series of training sessions on how to use the VLabs

POLICY
- Scientific papers & articles
- Restoring healthy oceans, seas, coastal & inland waters in Europe
- Strategic Roadmap 2030 **A5. ROADMAP**
- Cross-domain expansion factsheets
- Sustainability Business model

DTO Task Force

A solid, multidisciplinary, committed team of **40** partners from 13 EU countries

Blue-Cloud2026

Time	Title	Contact
10:00 – 10:10	Introduction Blue-Cloud 2026 project	Dick Schaap - MARIS
10:10 – 10:30	Data management and provision by EuroArgo –Argo ocean observing system	Thierry Carval – Ifremer
10:30 – 10:35	Q & A about EuroArgo	All
10:35 – 10:55	Data management and provision by SeaDataNet pan-European marine and ocean data management infrastructure and network	Dick Schaap - MARIS
10:55 – 11:00	Q & A about SeaDataNet	All
11:00 – 11:20	Data management and provision by EMSO ocean observing system	Raul Bardaji - EMSO
11:20 – 11:25	Q & A about EMSO	All
11:25 – 11:45	Architecture and approach for Blue-Cloud Data Discovery and Access Service and planned optimisation	Dick Schaap - MARIS
11:45 – 12:00	Overall Q&A and closure	All