



Blu

loud

Piloting innovative services for Marine Research & the Blue Economy

Marine Environmental Indicators Demonstrator

4 December 2020

Trust-IT Services, CMCC, IFREMER, KNMI,
University of Bergen





Blu Cloud

Agenda

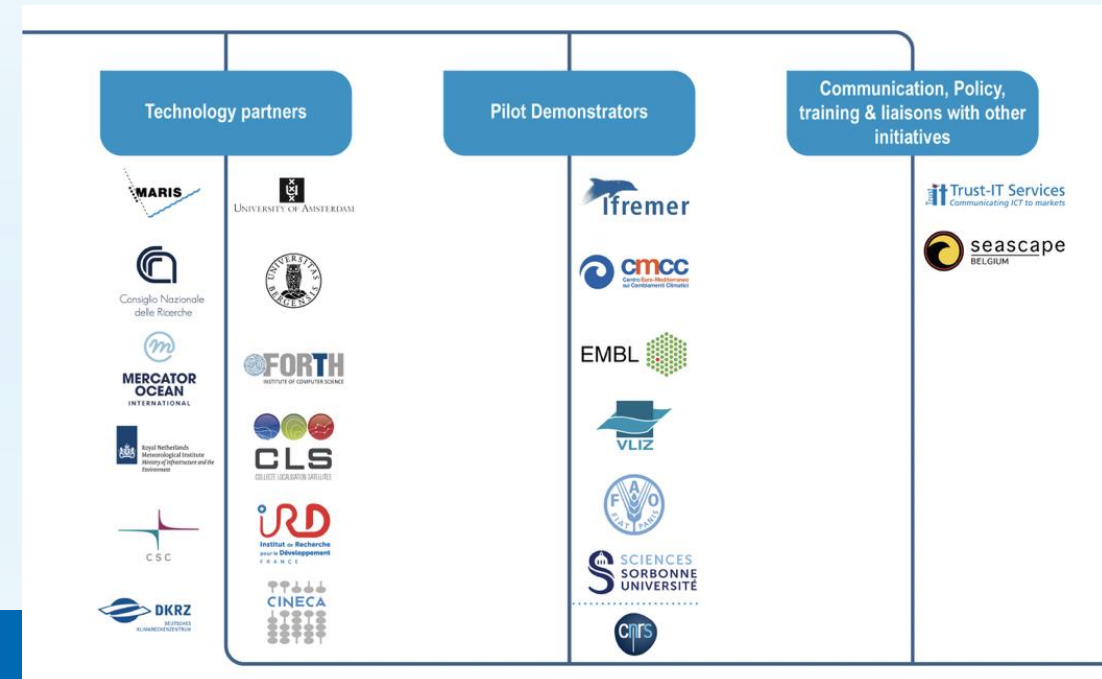
- 11:00 – Introduction, Blue-Cloud Vision and Mission (F. Spagnoli, Trust-IT Services)
- 11:05 – Demonstrator Prototype and initial marine indicators (M. Drudi, CMCC)
- 11:15 – The ocean patterns indicator (A. Garcia Juan, IFREMER)
- 11:25 – Storm Severity Index (J. W. Noteboom, KNMI)
- 11:35 – Benefits and needs of a marine carbon indicator (B. Pfeil, University of Bergen)
- 11:45 – Q&A (F. Spagnoli)



Blue Cloud

Blue-Cloud in numbers

- **Funding:** H2020: The 'Future of Seas and Oceans Flagship Initiative' (BG-07-2019-2020) topic: [A] 2019 - Blue Cloud services
- **Timing:** 36 Months (start October 2019)
- **Budget:** 5.9 Million Euro
- **Partnership:** 20 partners
- **13 Blue federated Infrastructures**



The vision

Blue-Cloud aims to become *the* environment for the “Blue community”, offering access to **an unprecedented wealth of multi-disciplinary data resources and added-value services** for the benefit of the future marine research and blue economy landscapes

Blue-Cloud mission

Piloting a cyber platform bringing together and providing access to:

- Multi-disciplinary data from observations, in-situ and remote sensing
- Analytical tools
- Computing facilities

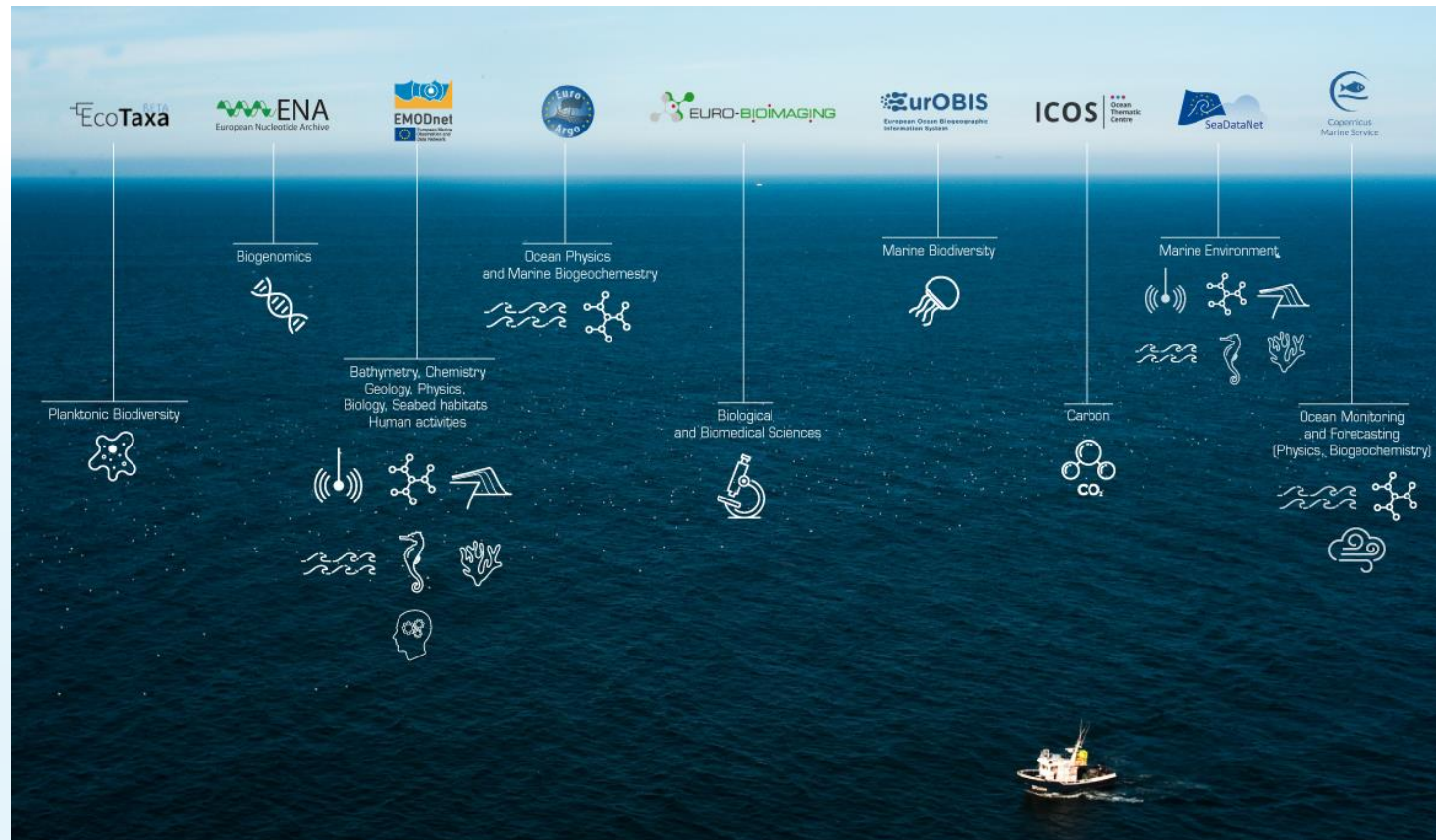
Which combined are essential to support research to better understand and manage the many aspects of ocean sustainability



Blue Cloud

A smart federation of existing data, computing, storage resources & analytical services

- a **Data Discovery and Access Service** to facilitate sharing with users of multi-disciplinary datasets
- a **Blue-Cloud Virtual Research Environment** to facilitate the orchestration of computing and analytical services





Blue Cloud

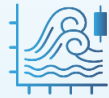
Five real-life demonstrators



Zoo & Phytoplankton
EOV products



Plankton
Genomics



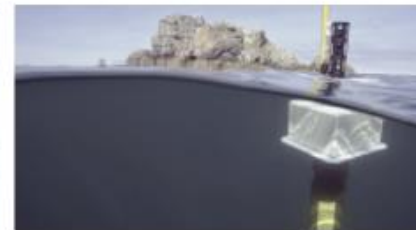
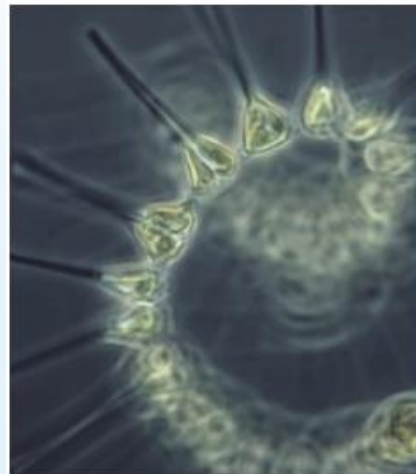
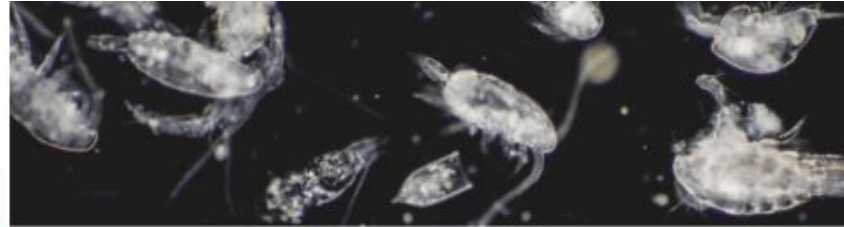
Marine Environmental
Indicators



Fish a matter
of scales



Aquaculture
Monitor



Necessary for marine ecosystems research, conservation, forecasting & innovation in the Blue Economy, not only in Europe but also across the globe

<https://www.blue-cloud.org/demonstrators>



Blue-Cloud

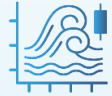
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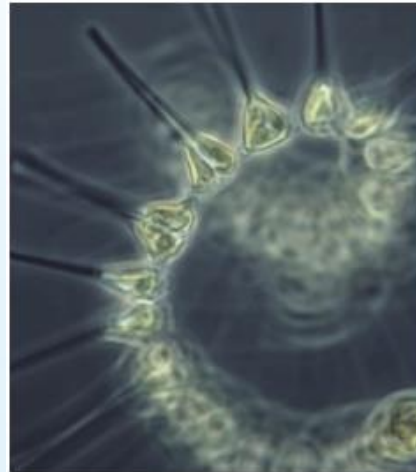
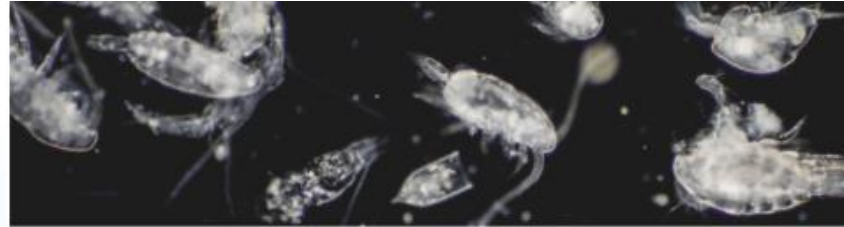
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