Blue-Cloud

Piloting innovative services for Marine Research & the Blue Economy

Developing a marine thematic EOSC to demonstrate the potential of cloud based open science for ocean sustainability

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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
- **9 Blue federated Infrastructures**

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The vision

Blue-Cloud aims to become the reference point for the "*Blue community" in the need of data, analytics tools and computing resources* **in EOSC and in the future Blue Economy & marine research landscape**

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The mission

Blue-Cloud aims to **pilot** a cyber platform bringing together and providing access to: 1) **multidisciplinary data** from observations and models, 2) **analytical tools**, & 3) **computing facilities** essential to **support research** to better understand and manage the many aspects of **ocean sustainability**

Blue-Cloud is a Pilot to demonstrate the potential of "cloud" based science

It will federate the resources of most key infrastructures in the marine domain offering access to an unprecedented wealth of multi-disciplinary data resources and added-value services

Thematic

EUROPEAN OPEN SCIENCE CLOUD

It supports research to better
understand and manage the many
aspects of ocean sustainability

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How?

- Building a smart federation of existing data resources, computing platforms, and analytical services

The Blue-Cloud assets

- A **data discovery and access service** to facilitate sharing with users of multi-disciplinary datasets
- A **Blue Cloud Virtual Research Environment (VRE)** to facilitate the orchestration of computing and analytical services to build specific applications

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Five, real-life demonstrators

Biodiversity

Environment

Fishery

Aquaculture

- Zoo- and Phytoplankton EOV products
- Plankton Genomics
- Marine Environmental Indicators
- Fish, a matter of scales
- Aquaculture Monitor

Co-designing a community-oriented Roadmap for the future strategic development of the Blue Cloud

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Expected Impacts

- Witness practical take-up of the **Blue Cloud serving as a role model for other thematic clouds**
- **Increase data sharing and increase integration of data**
- Facilitate the work & **dialogue within & between the Pilot demonstrators & the Community based projects & initiatives**
- Stimulate and **Engage with all Stakeholders** – Sharing the Vision & Sharing Results
- **Interdisciplinary & cross sectorial nature**
- **Short term and Long-term sustainability** through validated Business Models
- **Maintain excellence on a global scale** by means of active non-EU liaisons and up to date technical and policy observatory
- Programme with an **emphasis towards the end-users and a user-centred approach to the pilots**
- **Capacity Building** Improved **professional skills and competencies** of workers supporting new jobs creation in the blue economy

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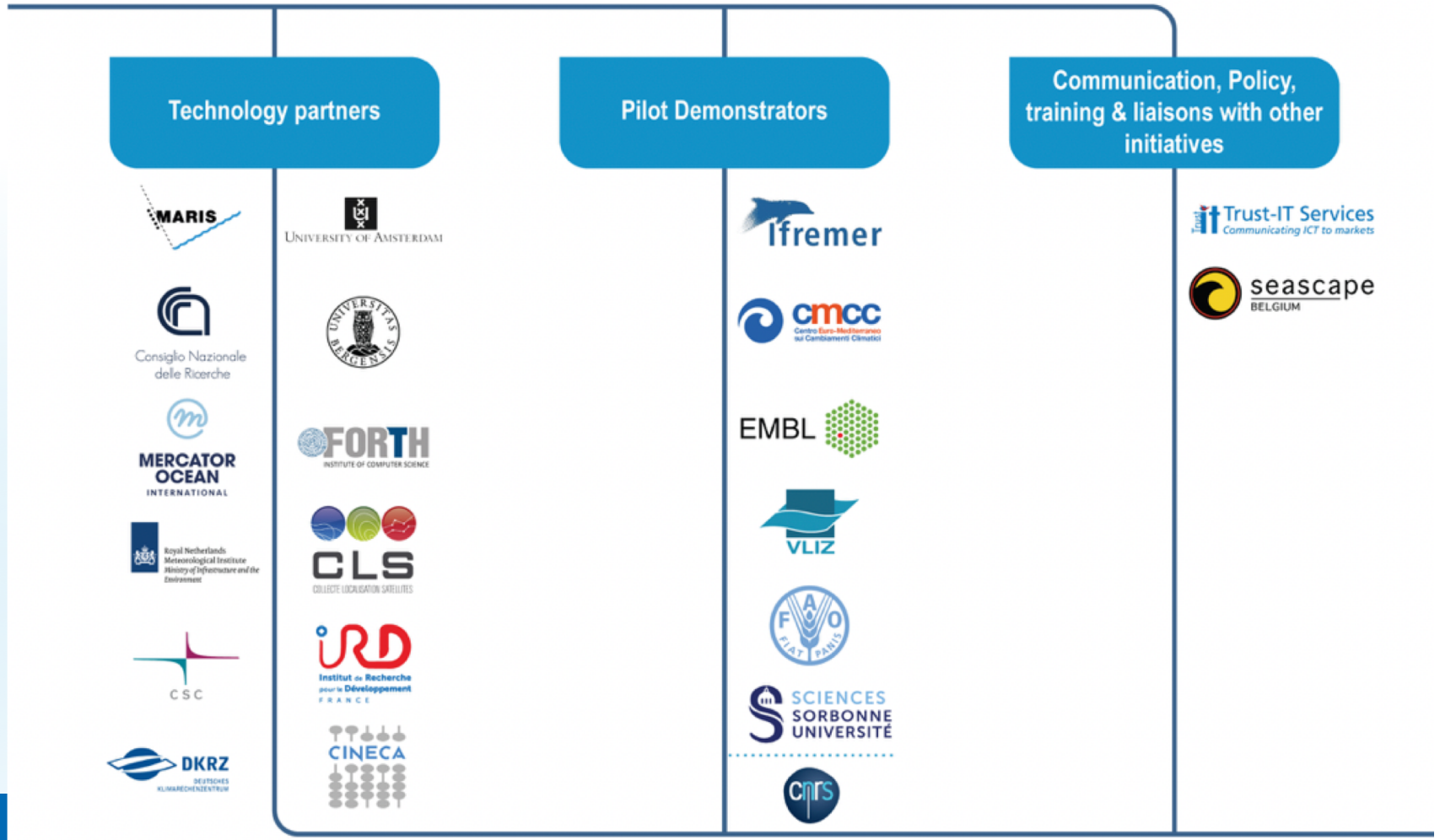
The Partnership



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Thank you! Questions?

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