ALL-ATLANTIC OCEAN RESEARCH ALLIANCE

Creating an Atlantic Ocean Community by Implementing the Galway and Belém Statements

AA-DATA2030 Report:

Demonstrators of the All-Atlantic Data Space

BUILDING AN ALL ATLANTIC
OCEAN COMMUNITY
Implementing the Belém Statement

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BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

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ALL-ATLANTIC JOINT PILOT ACTIONS

Following a year-long collaborative process among more than 70 stakeholders at the Atlantic level, the All-Atlantic Ocean Research Alliance Multi-Stakeholder Platform, divided into 5 sub-multi-stakeholders platforms, identified more than 1000 initiatives towards strengthening marine research and innovation collaboration at the Atlantic level, 56 gaps and 79 needs/recommendations to achieve the All-Atlantic Ocean Research Alliance ambition, guided by a total of 20 Strategic Objectives, 20 Operational Objectives, and 10 Key Performance Indicators.

Based on these findings and on the idea of collaboration, alignment, and use of existing resources, they have developed six ambitious and long-term collaborative Joint Pilot Actions:

- **All-Atlantic Training Platform (AA-TP)**
- **All-Atlantic Aquaculture Technology and Innovation Platform (AA-ATiP)**
- **All-Atlantic Marine Biotechnology Initiative (AA-BIOTECMAR)**
- **All-Atlantic Data Enterprise 2030 (AA-DATA2030)**
- **All-Atlantic Blue Schools Network (AA-BSN)**
- **All-Atlantic Marine Research Infrastructure Network (AA-MARINET)**

This report was developed by the **All-Atlantic Data Enterprise 2030 (AA-Data2030)** Joint Pilot Action, that aims at creating a one-stop, user-friendly transatlantic platform for gathering natural, social, and social-scientific data: The All-Atlantic Ocean Data Space (AAODS). AA-Data2030 is supporting transatlantic information and data sharing in the spirit of 'open science' and the FAIR/CARE/TRUST principles. The establishment of the All-Atlantic Ocean Data Space will ensure that, in the future, all stakeholders have free access and can also contribute to relevant data, thus safeguarding sustainable stewardship of the Atlantic Ocean.

This report is a deliverable in scope of JPA All-Atlantic Data Enterprise 2030, Task 3. Implementation of AAODS customized data services. The task, aimed at the implementation of the all Atlantic data space, which entails the drafting of a white paper providing recommendations for governments of countries bordering the South Atlantic, enabling them to address critical issues arising from the need of sharing scientific data. The webinar under this report present 4 demonstrators of AAODS customised data services based on existing services. This report corresponds to AA-DATA2030 D3.1 and D3.2.

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1. Agenda of the webinar Blue-Cloud: An Open Science platform for collaborative marine research across the Atlantic and beyond, 14 December 2021

Blue-Cloud, as a "Future of Seas and Oceans Flagship Initiative" of the EU Horizon 2020 programme, is the thematic entry point to the European Open Science Cloud (EOSC) for the marine domain, delivering a collaborative virtual environment to enhance FAIR and Open Science in Europe and beyond, with seamless access to services for storage, management, analysis and re-use of research data, across borders and disciplines.

Blue-Cloud deploys a web platform featuring an unprecedented wealth of multidisciplinary data repositories, analytical tools, and computing facilities to explore and demonstrate the potential of cloud-based Open Science, in the context of key European and international initiatives such as the EU Green Deal, the UN Ocean Decade and the 2030 Sustainable Development Goals. The project federates leading European marine research infrastructures (SeaDataNet, EurOBIS, Euro-ARGO, ICOS, SOCAT, ENA, EMODnet, CMEMS) and e-Infrastructures (EUDAT, D4Science, WEkEO DIAS), allowing researchers to combine, reuse, and share quality data across disciplines and countries.

The Blue-Cloud approach for the broad marine community worldwide

Blue-Cloud is also building tight connections with a range of projects and infrastructures in the marine domain, both within Europe and across the globe as in the case of the All-Atlantic Ocean Research Alliance. According to a recent joint policy brief jointly published with a group of European and Atlantic basin projects in the framework of the EC-funded Horizon Results Booster, under the lead of the EuroSea project, *"Widespread use of standards and interoperability of collected data in the domain of ocean science and technology will increase data quality levels and ensure more efficient and sustainable use of ocean data and information."* The Blue-Cloud federated approach taking place at the levels of data, computing and analytical service resources properly responds to this recommendation, and the model can be extended outside the European framework across the entire value chain of ocean information, to ensure sound sustainable ocean management.

The project framework also links to the All-Atlantic Data Enterprise 2030 (AA-DATA2030) Joint Pilot Action, which aims at creating a one-stop, user-friendly transatlantic platform for gathering natural, social, and social-scientific data: the All-Atlantic Ocean Data Space (AAODS). AA-DATA2030 will support transatlantic information and data sharing in the spirit of Open Science and the FAIR/CARE principles. The AAODS will ensure that stakeholders have free access to relevant data, fostering a sustainable stewardship of the ocean.

This webinar will also be a chance to learn more about the Blue-Cloud Hackathon, taking place in February 2022, where teams of marine researchers can test the Blue-Cloud technical framework under four different thematic challenges and also win prizes for working on their solutions.

Agenda of the webinar (all times CET)

- 15:00 - Welcome and introduction - Sara Pittonet Gaiarin, Trust-IT Services

- 15:10 - The Blue-Cloud Data Discovery and Access Service as a unique search facility for data across regions and providers - Peter Thijsse, MARIS (download slides)

- 15:40 - The Blue-Cloud Hackathon: 7-9 February 2022 - Julia Vera, Seascape Belgium (download slides)

- 15:50 - Introducing the Virtual Labs that demonstrate the Blue-Cloud framework, now available for third party users

  - Zoo & Phytoplankton EOV Products - Patricia Cabrera, VLIZ (download slides)

  - Plankton Genomics - Alexandre Schickele, LOV (watch video)

  - Marine Environmental Indicators - Massimiliano Drudi, CMCC (download slides)

  - Global Record of Stocks and Fisheries / Aquaculture Monitor - Anton Ellenbroek, FAO NFISI (download slides)

- *16:25 - Break*

- 16:35 - Panel discussion - Nourishing Blue Economy and Sharing Ocean Knowledge

    - Discussion based on the joint policy brief developed within the Horizon Results Booster, in the context of the AA-Data2030 Joint Action Plan

    - Moderator: Obakeng Molelu, Coastal and Marine Resource Development-COMRED (Kenya)

    - Toste Tanhua, EuroSea

    - Stéphane Pesant, AtlantECO

    - Dr Georgios Kazanidis, iAtlantic

    - Ivo Grigorov, Mission Atlantic

    - Franck Le Gall, ASTRAL

    - Rocío Castaño-Primo, TriAtlas

- 17:15 - Q&A and conclusions

- 17:30 - End

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