



ALL-ATLANTIC OCEAN RESEARCH ALLIANCE
Creating an Atlantic Ocean Community
by Implementing the Galway
and Belém Statements



BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

ALL-ATLANTIC DATA ENTERPRISE 2030



LEADER

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WHY IS THIS JOINT PILOT ACTION NEEDED

Many decades of climate variability and ecosystem research (including the effects of emerging pollutants), polar research, and ocean observation have created a great wealth of scientific data, which now has to be harvested and stored in a coordinated, accessible, and inclusive manner. This will be achieved at the Atlantic Ocean level through the establishment of the **All-Atlantic Ocean Data Space**.

AIM

The main goal of the Joint Pilot Action **All-Atlantic Data Enterprise 2030 (AA-Data2030)** is to create a unique transatlantic data platform for natural and social scientific data — the **All-Atlantic Ocean Data Space** — to effectively and efficiently provide peer-reviewed Atlantic Ocean data in compliance with the FAIR (Findable, Accessible, Interoperable, and Re-usable) guiding principles for scientific data management, and CARE (Collective Benefit, Authority to Control, Responsibility, and Ethics) principles for indigenous data governance.

COUNTRIES ALREADY INVOLVED

Angola, Argentina, Belgium, Brazil, Bulgaria, Burkina Faso, Canada, France, Germany, Italy, Portugal, South Africa, Spain, Sweden, United Kingdom, United States of America

It is expected to have additional participation of countries from all over the Atlantic Ocean



EXPECTED OUTCOMES

Short-term outcomes:

- Roadmap for the implementation of the All-Atlantic Ocean Data Space;
- Identification of a number of ocean data and metadata standards and formats that could be used by local, regional, and national initiatives in the Atlantic basin;
- White paper summarising the main strategic approaches to the All-Atlantic Ocean Research Alliance and its data needs.

Long-term outcome:

Implementation of the All-Atlantic Ocean Data Space as a transatlantic data platform for the social and natural sciences with historical, current, and future ocean data.

EXPECTED IMPACTS

The **All-Atlantic Ocean Data Space** will generate an environment that facilitates the development of better and more accurate research, monitoring, modelling, planning, management, and prediction capacities for the entire Atlantic. It will also contribute to the sustainable management and protection of marine and coastal ecosystems through restoration and resilience-building efforts in a quest to ensure a healthy and productive Atlantic Ocean. More specifically the following positive results are expected:

- A drastic improvement of the handling and the accessibility of marine data by linking and strengthening the existing national and international networks between the West and the East, and the South and the North of the Atlantic basin.
- Consolidation of existing efforts towards an effective future form of ocean governance by ensuring that all stakeholders have free access to relevant data and transparent information, thus securing sustainable stewardship of the Atlantic Ocean for the global common good.
- Harmonisation of regionally established standards to conform to national and international uniform, reliable minimum standards.
- Improvement of capacity in research, innovation, and management for better understanding of data and metadata needs, collection, management, sharing, and communication processes.
- Provision of the necessary skills in data management (Ocean Data Literacy & Science Data Literacy) to a wider audience to create a “data science driven” mentality.

ACTIVITIES

- Showcase selected infrastructures & services available to the All-Atlantic Ocean community through three webinars that focus on the following:
 - Metadata standards
 - Accessing and contributing to data products
 - Deploying analysis pipelines
- Co-define the needs of the All-Atlantic community and co-customise services based on this needs assessment through a series of workshops.
- Develop three to six demonstrators which will be tested with the All-Atlantic community.



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.

CONTRIBUTION TO THE ALL-ATLANTIC OCEAN RESEARCH ALLIANCE AMBITION

The Joint Pilot Action **AA-Data2030** will, through a fundamental mind-set shift, contribute to the ambitions of the All-Atlantic Ocean Research Alliance by collecting data without precedent, defining common standards for data sharing, integrating intercontinental science policy and networks, and ultimately generating a fully operational online data platform for the Atlantic Ocean. More precisely, AA-Data2030 will contribute to the goals of the Alliance by:

- Promoting a new collaborative attitude that derives from the understanding that it is in the interests of individuals to contribute to the protection of a common good: the Atlantic Ocean.
- Standardising the way Atlantic Ocean data are collected, stored and shared through joint prioritisation of cooperation activities and the use of existing structures.
- Promoting economic benefits through easy access to high-quality data, information, content, and knowledge.
- Improving social welfare as society will benefit from information that is more transparent and accessible.

AA-Data2030, will undoubtedly also benefit the following key common areas of interest under the All-Atlantic Ocean Research Alliance:



Climate variability and ecosystem approaches



Ocean observation, forecasting, and monitoring processes and systems



Food security, fisheries management, aquaculture, and biodiversity



Oceans technology



Effects of emerging pollutants



Polar research

SYNERGIES WITH EXISTING INITIATIVES

The Joint Pilot Action **AA-Data2030** will join forces, promote efficient cooperation and maximise impact by bringing together organisations and projects that are experienced and interested in data standards and management for the Atlantic Ocean, including projects that fall under the All-Atlantic Ocean Research Alliance.

WHO CAN BE INVOLVED?

Stakeholders engagement will ensure the success of the Joint Pilot Action



Academia (universities and research centres)



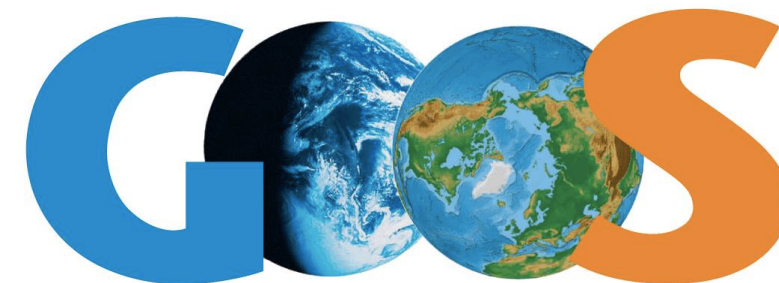
Industry (e.g. small and medium-sized enterprises)



Public/private sector industry (fisheries, aquaculture, tourism, agriculture, aquatic sport)



Human health associations



Global Ocean Observing System (GOOS) entities, regional associations (e.g. GOOS Regional Associations and GOOS bodies)



Provincial and local governments



Government/policy makers - e.g. ministries, agencies, and elected officials

Other organisations - e.g. NGOs and civil society

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