

AtlantOS

An All-Atlantic Ocean Observing System – High-level Strategy –

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Vision

A comprehensive Atlantic Ocean Observing System that benefits all of us living, working and relying on the ocean

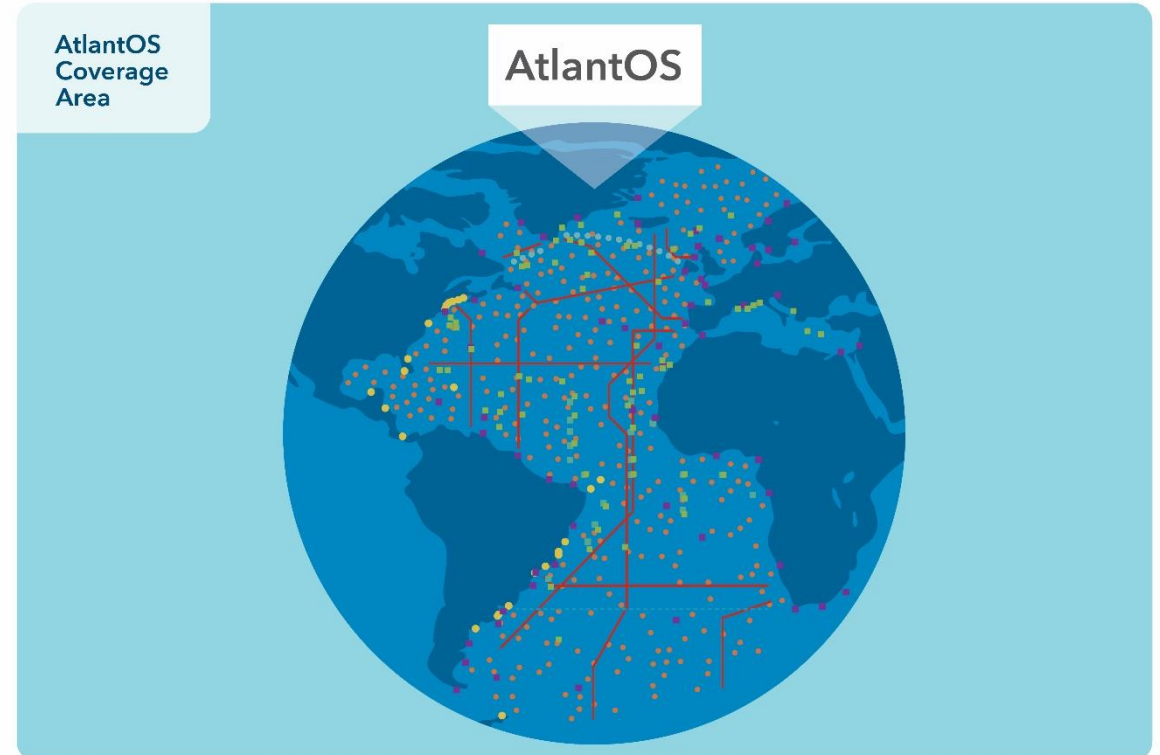
What does the High-Level Strategy offer?

- An integrated concept for a basin-scale partnership to establish a sustainable, multi-disciplinary, fit-for purpose system
- AtlantOS will build on observing platforms, networks, and systems that already exist
- Contribute to the Global Ocean Observing System (GOOS) and the Group on Earth Observations (GEO)



How will AtlantOS generate value?

- By sharing information widely, encouraging multiple uses of data
- By saving time, money, and energy by working together
- By coordinating the implementation of observing systems and the collection of ocean data in the Atlantic Ocean
- By supporting multidisciplinary, diversity in all forms and transnational partnerships



What kinds of societal needs will AtlantOS address?

- **Disaster Resilience:** storm surge, hurricane, tsunami warnings, to support successful emergency response
- **Blue Economy:** advanced seafloor mapping, pollution tracking, identification of renewable energy options and understanding the value of ecosystem services
- **Food Security:** supporting fisheries and aquaculture operations and management to maximize sustainable fisheries
- **Biodiversity and Ecosystem Sustainability:** biodiversity and ecosystem monitoring to help keep our ocean healthy, forecasting of harmful algal blooms
- **Marine Transportation:** Forecasts of extreme wave events, hurricane tracking, sea-ice monitoring, and whale location advisories help avoid ship collisions with whales and other protected species
- **Climate Change:** Cutting edge research in ocean heat and circulation patterns, regional sea level monitoring, climate feedbacks, changes affecting ocean life

How will we build AtlantOS?

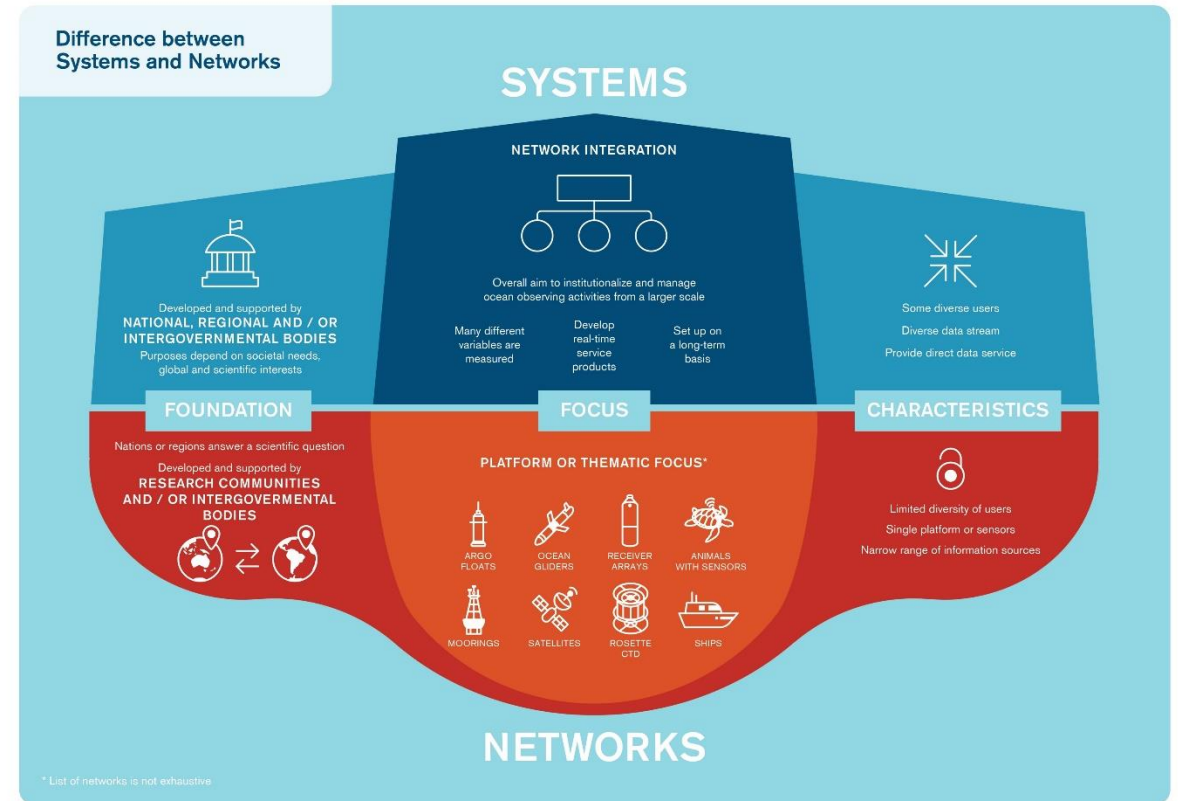
We will build AtlantOS by moving from existing networks that operate independently in the Atlantic Ocean to coordinating a basin-scale system, working together in AtlantOS

Networks

- *Argo*
- *GO-SHIP*
- *Ocean Tracking Network (OTN)*
- *OceanSITES (including OSNAP, RAPID, SAMOC)*
- *PIRATA*
- *Ship Observations Team (SOT)/Ship-of-Opportunity Programme (SOOP)*
- *XBTs*
- *Global Ocean Acidification Observing Network (GOA-ON)*
- *Continuous Plankton Recorder*
- *Global Sea Level Observing System (GLOSS)*
- *Marine Biodiversity Observation Network (MBON)*

Systems

- *U.S. Integrated Ocean Observing System*
- *EuroGOOS*
- *C-IOOS*
- *South African Environmental Observation Network (SAEON)*
- *Sistema de Monitoramento da Costa Brasileira (SiMCosta) – Brazilian Coastal Monitoring System*



Where are we now?

- We are already engaged in ocean observing but could do more to coordinate activities sustainably
- We share ocean data and engage in capacity building but could do better to meet user needs
- We promote the engagement of to ocean observing but with more of a focus on science than the wider society



Where are we heading?

- User needs are met – by keeping connected with users and understanding their evolving requirements
- AtlantOS is the All Atlantic part of the Global Ocean Observing System
- A fully functioning governance framework exists providing a forum for coordination, resource mobilization, review and decision making
- Long-term sustainability has been achieved through national and stakeholder commitments with a goal of reaching 75% of sustained resources



How do we go about realizing the vision of AtlantOS?

- Socialize the vision (meetings, workshops, Ocean Obs'19)
- Support from AORA and AANCHOR (CSA's)
- Engage participation at the high level, at the system and at the partner levels
- Expand the initial partnership
- Connect with and contribute to the Decade for Ocean Science
- Build an implementation plan



How can the community contribute?

- Share, and help socialize the Vision
- Speak to the need for ocean observation
- Engage with the implementation process
- Suggest good ideas and approaches – work with us



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Program