

# AtlantOS: CO-DESIGN IN THE ATLANTIC

- Realizing the Benefits of Ocean Knowledge through Co-Design -

**Jessica Snowden, Chair (USA/NOAA)**

**Steering Committee:** Gleyci Moser (Brazil) | Renellys Perez (USA) | Lucie Cocquempot (France) | Francis E. Asuquo (Nigeria) | Virginia P. Povedano (IE) | Patrick Gorringe (Sweden) | Martin Visbeck (Germany) | Brad deYoung (Canada) | Christine Sams (United Kingdom) | Isabel S. Pinto (Portugal) | Maria Paz Chidichimo (Argentina) | Isabelle Ansorge (South Africa) | Ann Zinkann (USA)

&

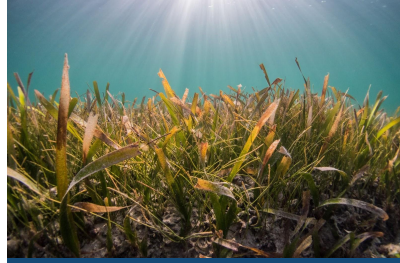
Co-Design Partners, Projects & Co-Design Team



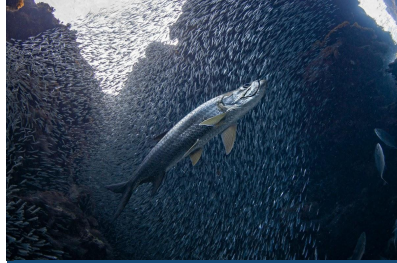
# — THE OCEAN



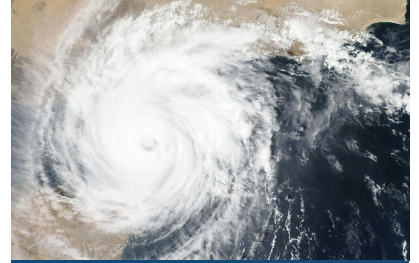
Supports life on earth, **oxygen**,  
**resources**,



Absorbs 25% of  
anthropogenic **carbon**  
/ year



**Food security** for 3  
billion people



Drives **extreme**  
**weather** and controls  
climate

...if we don't have the **ocean observations** underpinning our  
decisions, we might as well be guessing at solutions

---

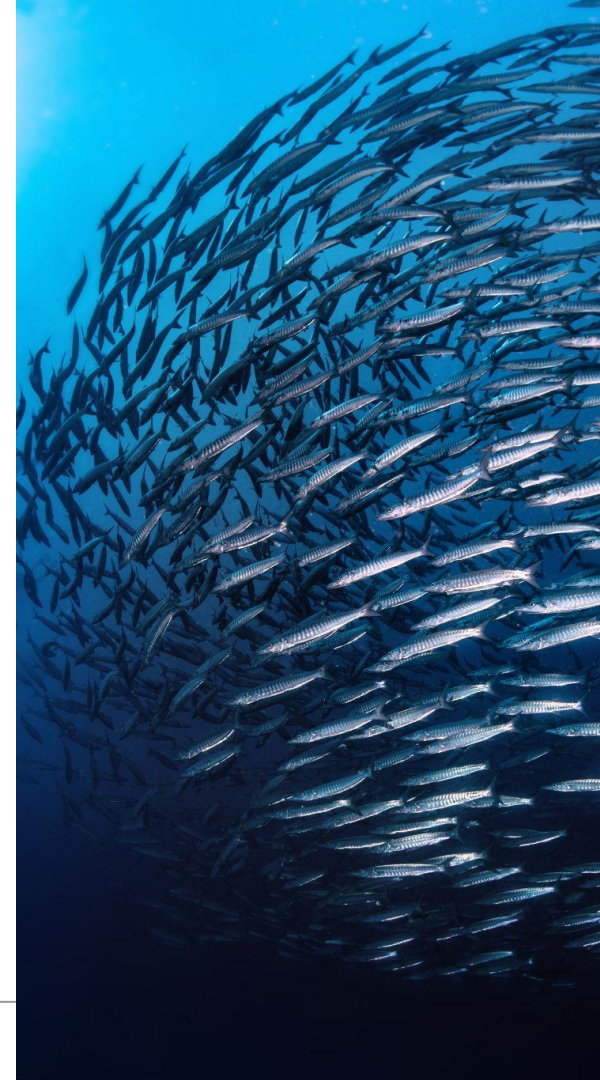


# — AtlantOS VISION

The vision is to **advance** and **co-design** the Atlantic ocean observing system.

Our goals are to:

- Build a **community** and **community of practice** across observing, modeling, and predictions;
- Provide a **fit-for-purpose** and **responsive** observing system to enhance the value of ocean observing to serve end-users;
- **Connect** and **interconnect** with Atlantic partners and key-stakeholders to ensure co-design and their interests are served at national, regional, and international level;
- Promote **open sharing** and **exchange of information**.

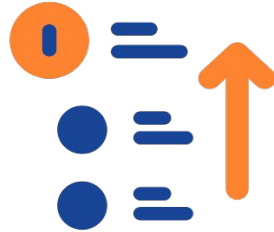


## — KEY CHALLENGES



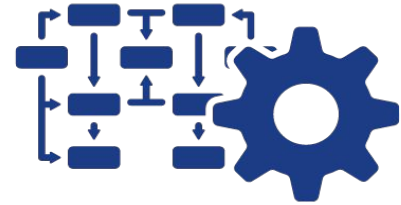
### **Not enough ocean information**

to effectively meet global challenges



### **Need to establish clear priorities**

in investment in ocean observing

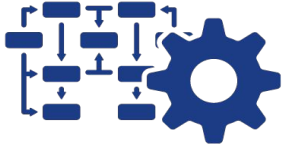


### **Connecting across the value chain**

of observing, modeling and user engagement

**Need a step change...**

## — OUTCOMES



Link along  
**value chain and**  
**users**



Observing **design**  
for user need area



**Economic value**  
assessment



**Blueprint** for  
services if they  
don't exist



**Tracking** of  
implementation  
against need

---



**Ocean Observing Co-Design**

by The Global Ocean Observing System

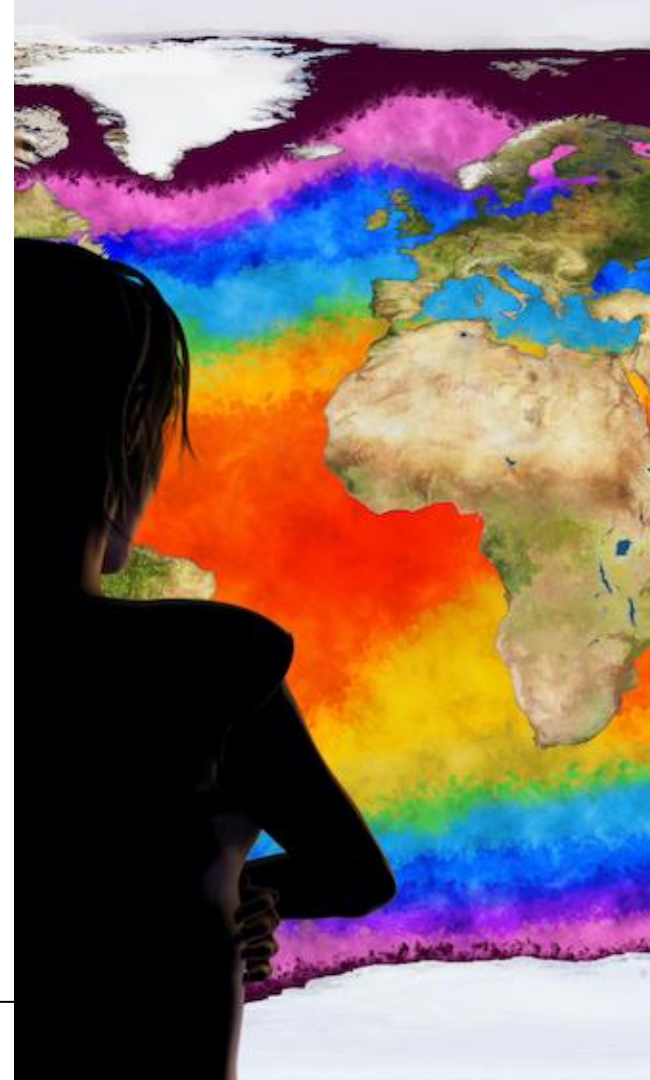


**The Programme will evolve the  
ocean observing system so that it is  
co-designed with end-users and  
responds to their needs**



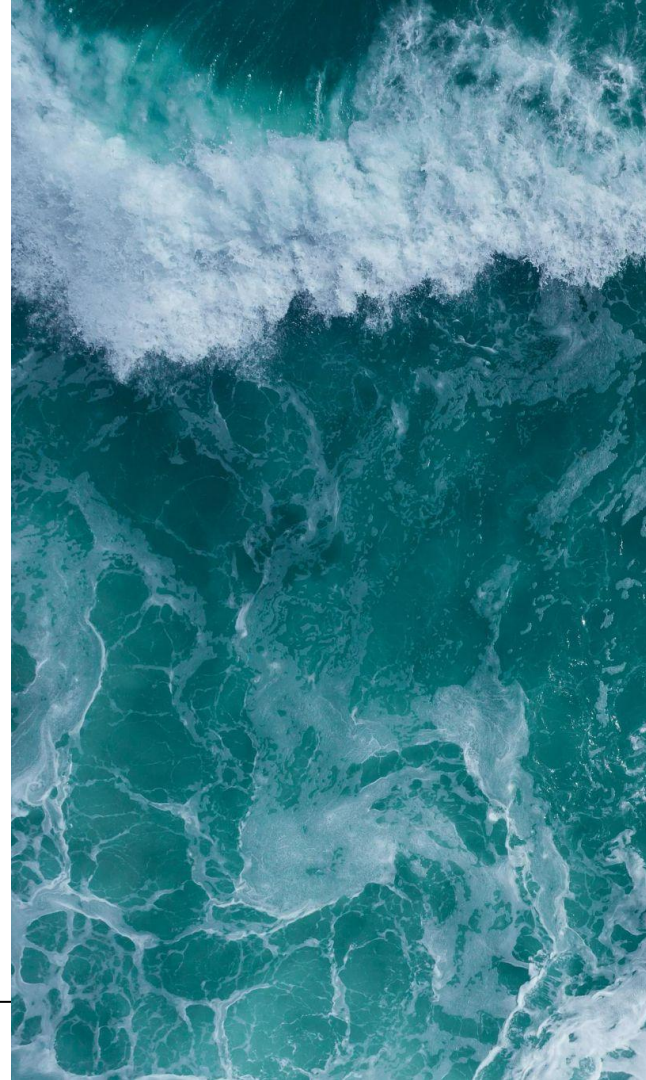
## — PROGRAMME BENEFITS

- Better track the **current state** and **future variability** of the ocean
- **Predict** and **warn** more skillfully
- **Manage** ocean resources and **assess** the impact of action towards a sustainable ocean
- **Empower** society to adapt to change
- **Incentivise investment** to lift the ocean observing system in key exemplar area
- **Look at a problem holistically** - integration along the chain from implementers to users



## — RECENT DEVELOPMENTS

- **Endorsement** by the Global Ocean Observing System and Geo Blue Planet;
- Produce **AtlantOS Ocean Hours** to provide community engagement;
- Revised the AtlantOS **Governance**;
- Endorsed UN Decade Project "**AtlantOS Connect**";
- Start of **Consultation process** - e.g., barriers, user needs;





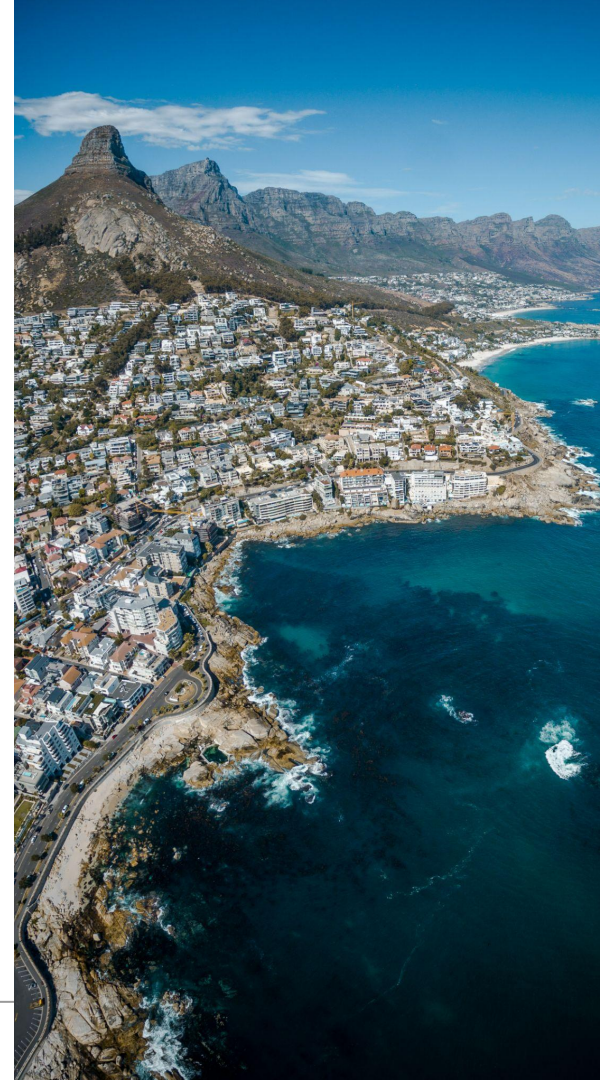
## — AtlantOS ACTIVITIES

- Increased **engagement** and **connection** with **national & regional initiatives** e.g. GOOS networks, CIOOS, IOOS, IOCARIBE of IOC-UNESCO, PIRATA, TAOS, South Atlantic Networks
- **Endorsed** as GOOS Project, GEO BP, Ocean Decade project
- New **Governance** Structure
- **Communications**: AtlantOS Ocean Hour, Newsletter, Webinar training series
- **Events**: All-Atlantic Side Event, DOOS Scoping Workshop,



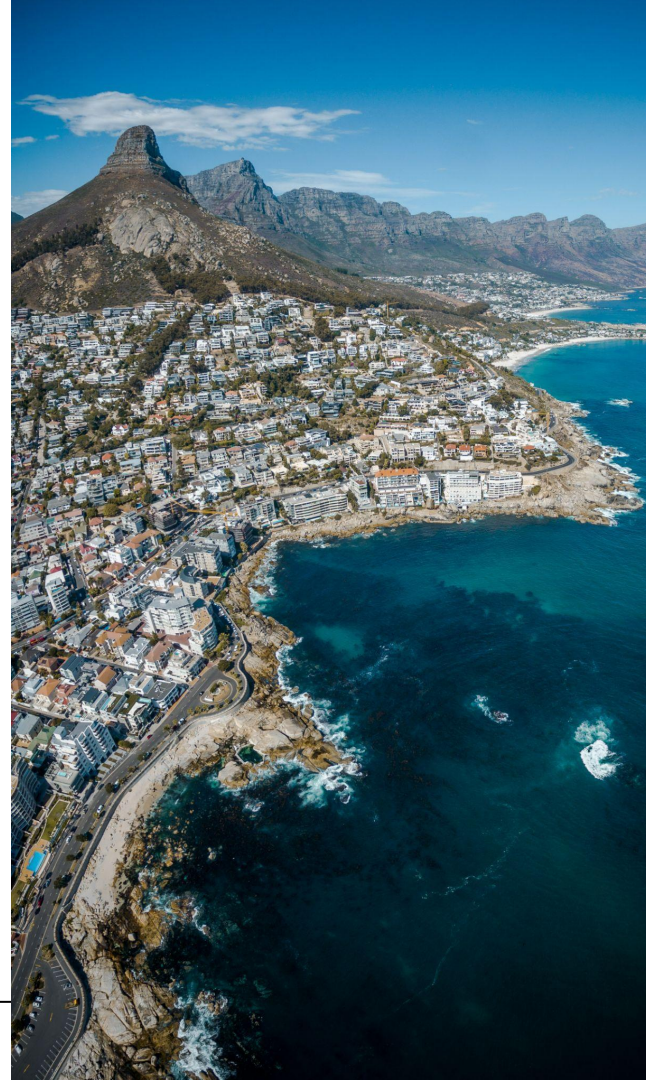
# — OPPORTUNITIES & ACTIVITIES

- **Outreach activities:** AtlantOS Ocean Hour
- **Task Teams:**
  - Low cost technology and data
  - Boundary current
  - AMOC Impact studies
  - Sargassum
- **In planning:** Workshop on developing an integrated and requirements EOVS based ocean observing system [~Fall 2024][Funding source: POGO, US]
  - Stakeholder mapping
  - Priority setting
  - Requirements setting
  - Best practices



## — NEXT STEPS

- Finalize means to engage with **AAORIA** and existing Atlantic ocean efforts;
- Work closely with the Ocean Decade Programmes **Ocean Observing Co-Design** and **Observing Together**;
- Continue AtlantOS **Ocean Hours** to provide community engagement;
- Stakeholder **Workshop** in Summer 2024





# Thank you

## Contact:

Jessica Snowden -  
[jessica.snowden@noaa.gov](mailto:jessica.snowden@noaa.gov)

[www.atlantos-ocean.org](http://www.atlantos-ocean.org)

[www.goos.org](http://www.goos.org)

AtlantOS

