



At the heart of
the Ocean Decade

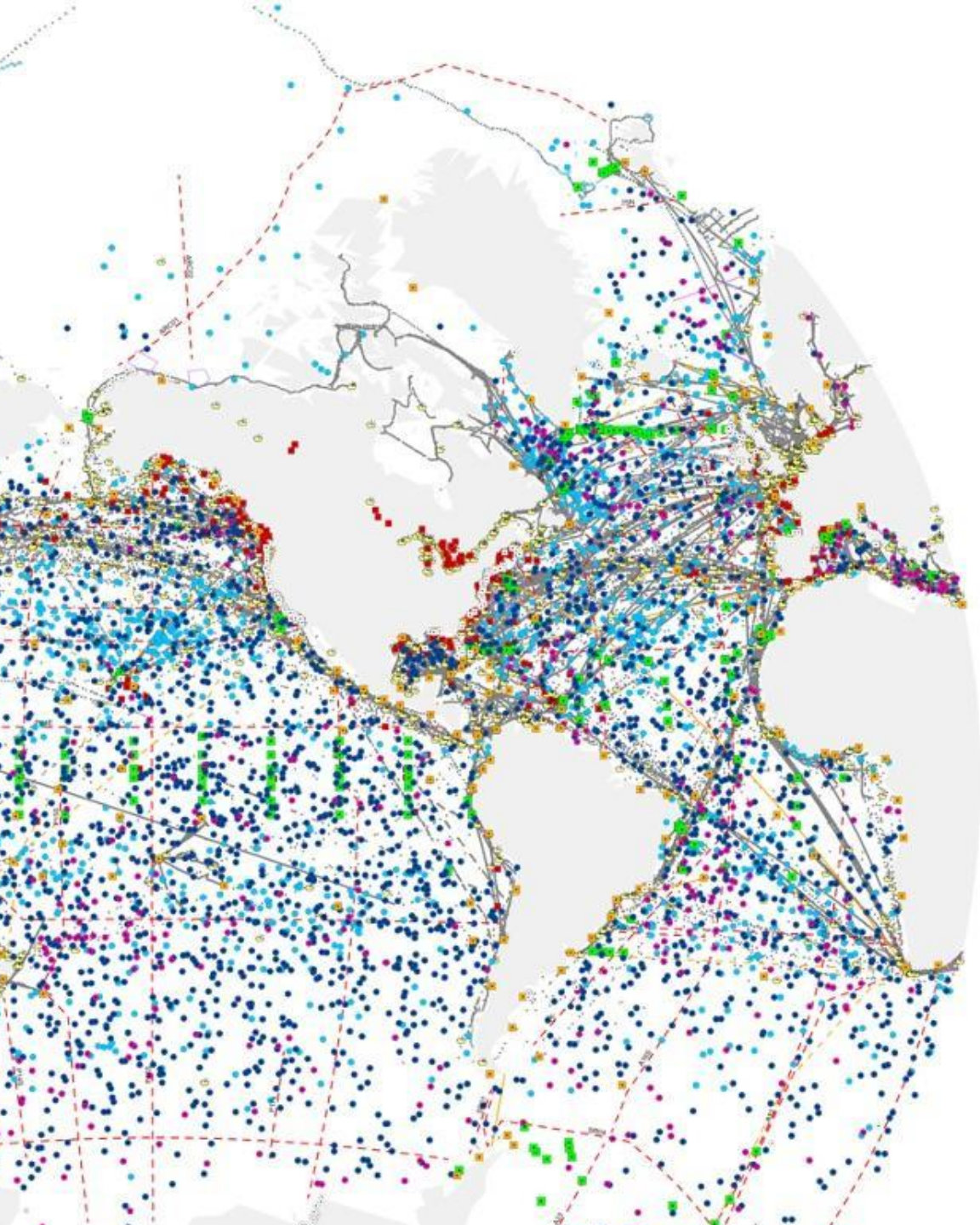
Global Ocean Observing System: at the heart of Ocean Decade

Emma Heslop, GOOS



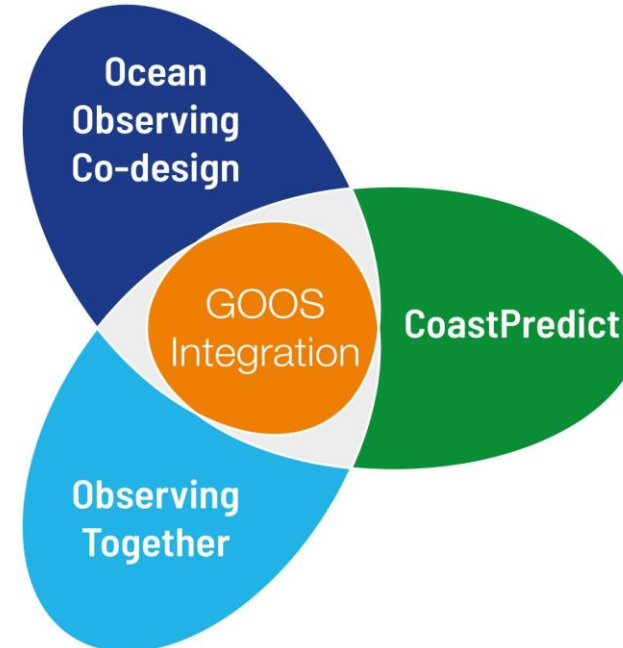
2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



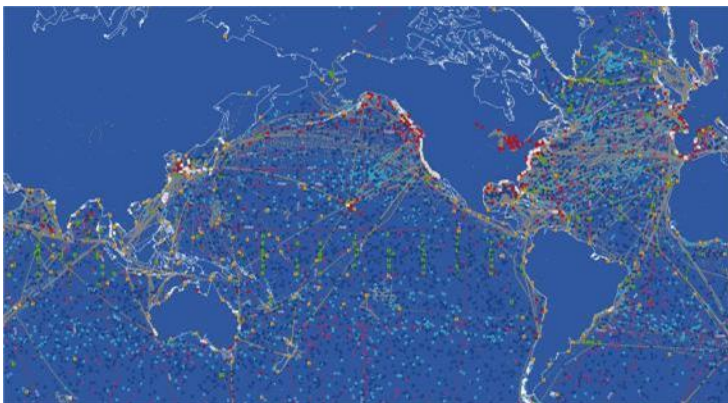


3 TRANSFORMATIVE PROGRAMMES FOCUSING ON KEY AREAS OF:

- CO-DESIGN
- COASTAL
- CAPACITY DEVELOPMENT



— Transformational for GOOS and the Ocean Decade



Ocean Observing Co-Design

by The Global Ocean Observing System

Ocean Observing Co-Design will transform our ocean observing system assessment and design processes.



CoastPredict

with The Global Ocean Observing System

CoastPredict will revolutionise Global Coastal Ocean observing and forecasting.



Observing Together

by The Global Ocean Observing System

Observing Together will meet stakeholder needs and make every observation count through enhanced support to both new and existing community-scale projects.



Observing Together

by The Global Ocean Observing System

Meeting stakeholder needs and making every observation count

Co-chairs:

Molly Powers (Pacific Community)

Alvaro Scardilli (Naval Hydrographic Service, Argentina)



2021 United Nations Decade
of Ocean Science
2030 for Sustainable Development

This programme is endorsed by the **UN Decade of Ocean Science**

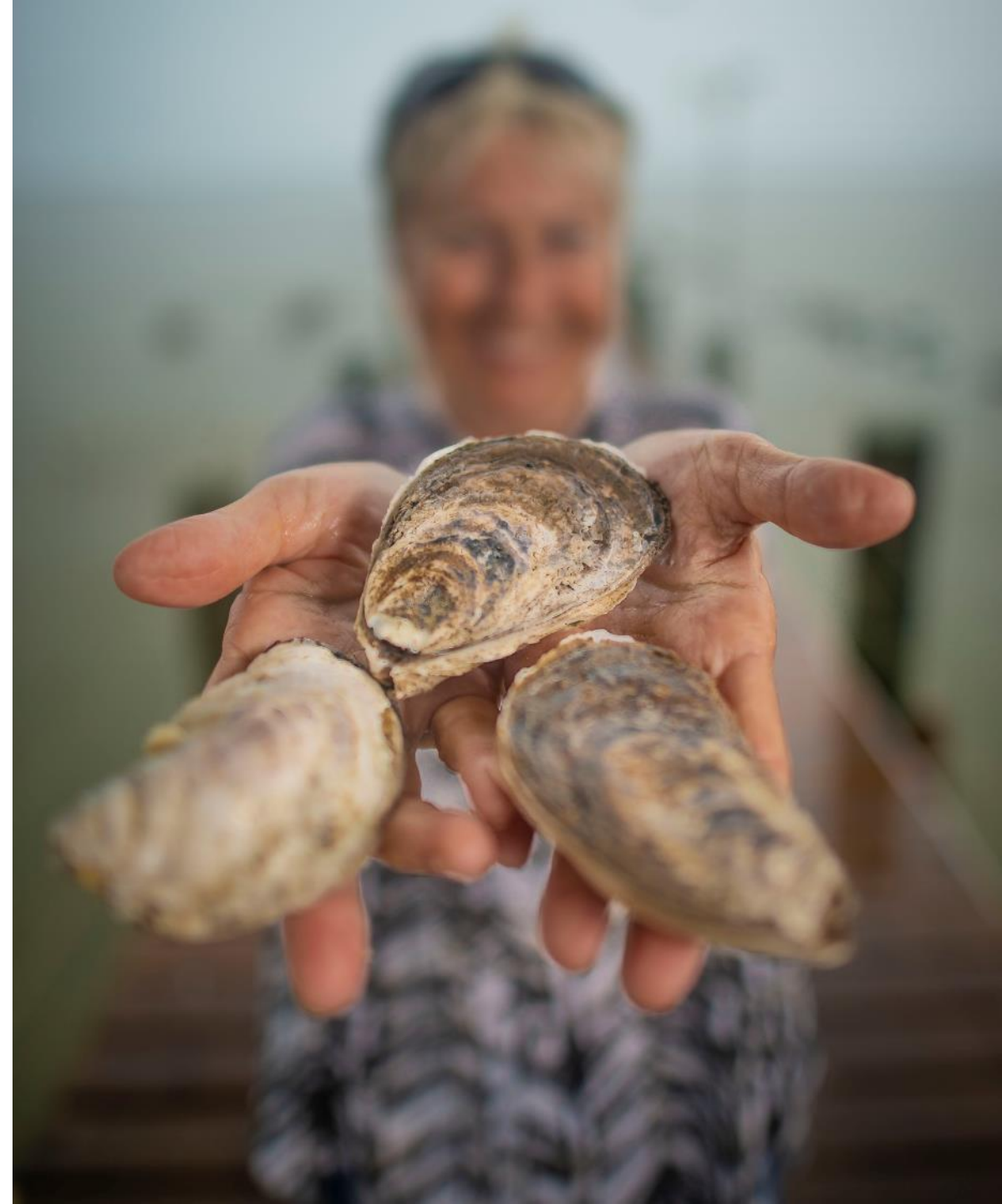


— The vision

Enhance **access to ocean data in a way that is truly useful** to enable informed decision making.

Connect initiatives **to contribute to an enhanced global system** and strengthen a wide range of products.

Connect **observers and the communities** they serve across the value chain.



“Ensure all observations adhere to best practices and data management and quality control criteria, while better engaging communities and responding to their needs.

— The objectives

1. —————

Equitable and practical **access to ocean observations** enabled by engagement and co-design with local stakeholders.

4. —————

Increased evidence that ocean observations are **applied to solve problems and inform decision-making** for any community – national, regional, or global.

2. —————

A system that makes a greater number of global and local **observations available, integrated, interoperable and comparable.**

5. —————

Efficient design and use of ocean observations to **maximise return on investment.**

3. —————

Strengthened **connections**, mutual **understanding**, and improved **knowledge sharing** between ocean observers and the stakeholder communities.

— PROJECTS ENDORSED BY THE OCEAN DECADE

NEW OBSERVING SYSTEMS:

MarocNatCom

Enhancement of oceanic knowledge by developing a Moroccan national observations network

Mauritius Meteorological Services

Enhancement of the ocean observing system within the Republic of Mauritius

END-USER ENGAGEMENT:

Agency for Meteorology, Climatology and Geophysics of the Republic of Indonesia [BMKG]

Ocean Literacy: Fisherman Weather Field School - Sekolah Lapang Cuaca Nelayan [SLCN]

AtlantOS-Connect

Focus on user community engagement with observing networks

NEW OBSERVERS:

Norway NTNU

Sailing4Science: expand capacity for through citizen science, with emphasis on remote under-observed areas

— GUIDING PRINCIPLES FOR PROJECTS:

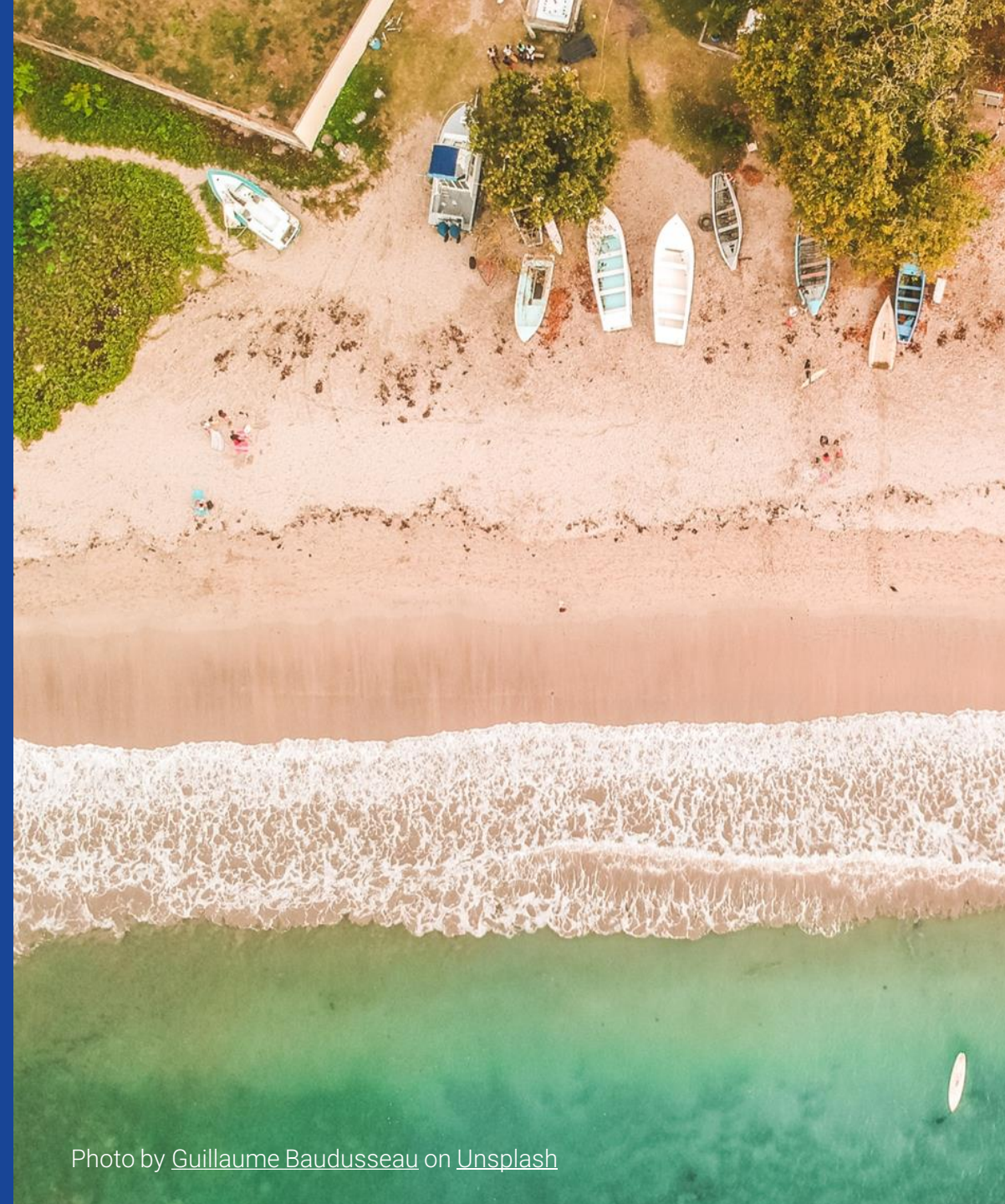
- Aim is sustained ocean observations, i.e. not one-off research project observations;
- Engagement with GOOS components (networks, systems, etc)
- Adherence to using and / or contributing to creating community adopted best practices;
- Adherence to FAIR [findable, accessible, interoperable, and reusable] data principles;
- Willingness to share experience and lessons learnt across Observing Together
- Willingness to engage in co-design activities to improve observing system fit for purpose and to optimise the observations to inform stakeholder decision-making

— NATIONAL OBSERVING SYSTEMS DEVELOPMENT

➔ **Enhancing ocean observing system within the Republic of Mauritius**

➔ **Enhancement of hydrographic and oceanographic observations in the Kingdom of Morocco**

- enhancement of ocean knowledge and forecasting by developing and enhancing national system
- contribute to the regional programmes of African / Indian Ocean regions
- strengthen capacity in terms of platforms and network development
- develop modelling capabilities
- benefit from and adhere to best practices



— END-USER ENGAGEMENT

- ➔ **Fisherman Weather Field School (BMKG Indonesia)**
- ➔ **AtlantOS-Connect**

- engagement with communities to support understanding of the information provided by weather and ocean services for the benefit of people's safety
- optimisation of fishing & aquaculture activities
- awareness of in-situ equipment vital role, to reduce vandalism
- connecting observing to end-user communities via national & regional entities
- identify common challenges and needs of coastal communities



— NEW OBSERVERS

➔ Sailing 4 Science (NTNU Norway)

- focus on remote, understudied coastal ocean often coinciding with SIDS or low income communities, where capacity building must be carefully co-designed
- deploy frugal innovation, and cost-effective observation tools that exploit recent transformative technologies
- data collection will be important for ocean literacy and awareness activities



— HOW CAN YOU SUPPORT & GET INVOLVED?

- Help to support connections to experts, systems and relevant initiatives
- Provide advice and support any local emerging initiatives, connect projects that could benefit from joining this initiative
- Highlight priorities that may be relevant to inform project focus and priorities



Observing Together

by The Global Ocean Observing System

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