

Session 1: Introduction

GOOS Priorities

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Overview

- Why Ocean Observations?
- The Global Ocean Observing System (GOOS)
- Importance of GOOS National Focal Points / Coordinating Committees

Ocean observations: fundamental to society

Climate action

Blue economy

Forecasts & early warnings



Community adaptation

Ocean health

Carbon strategies

No one country can observe the ocean effectively on its own

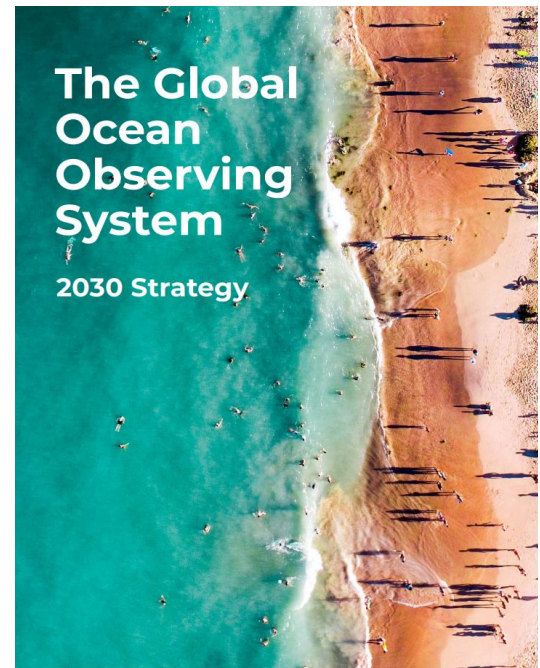


GOOS 2030 Strategy

- 2019: GOOS launched 2030 Strategy

Vision: A truly global ocean observing system that delivers the essential information needed for our sustainable development, safety, wellbeing and prosperity

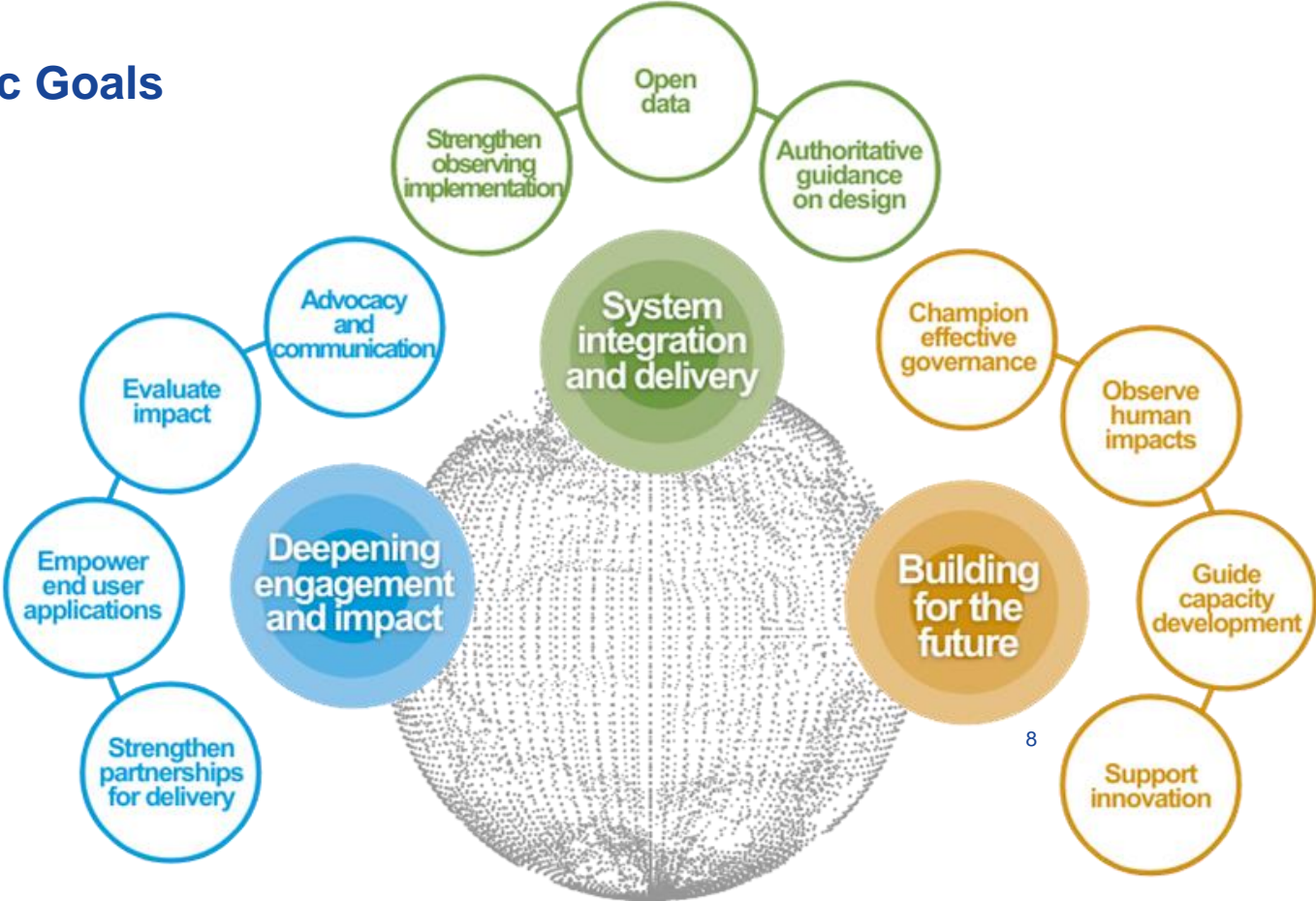
- UN Ocean Decade launched in 2021: Challenge 7 'Expand the Global Ocean Observing System'



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



3 Strategic Goals



“Ocean Observation is a Societal Service”



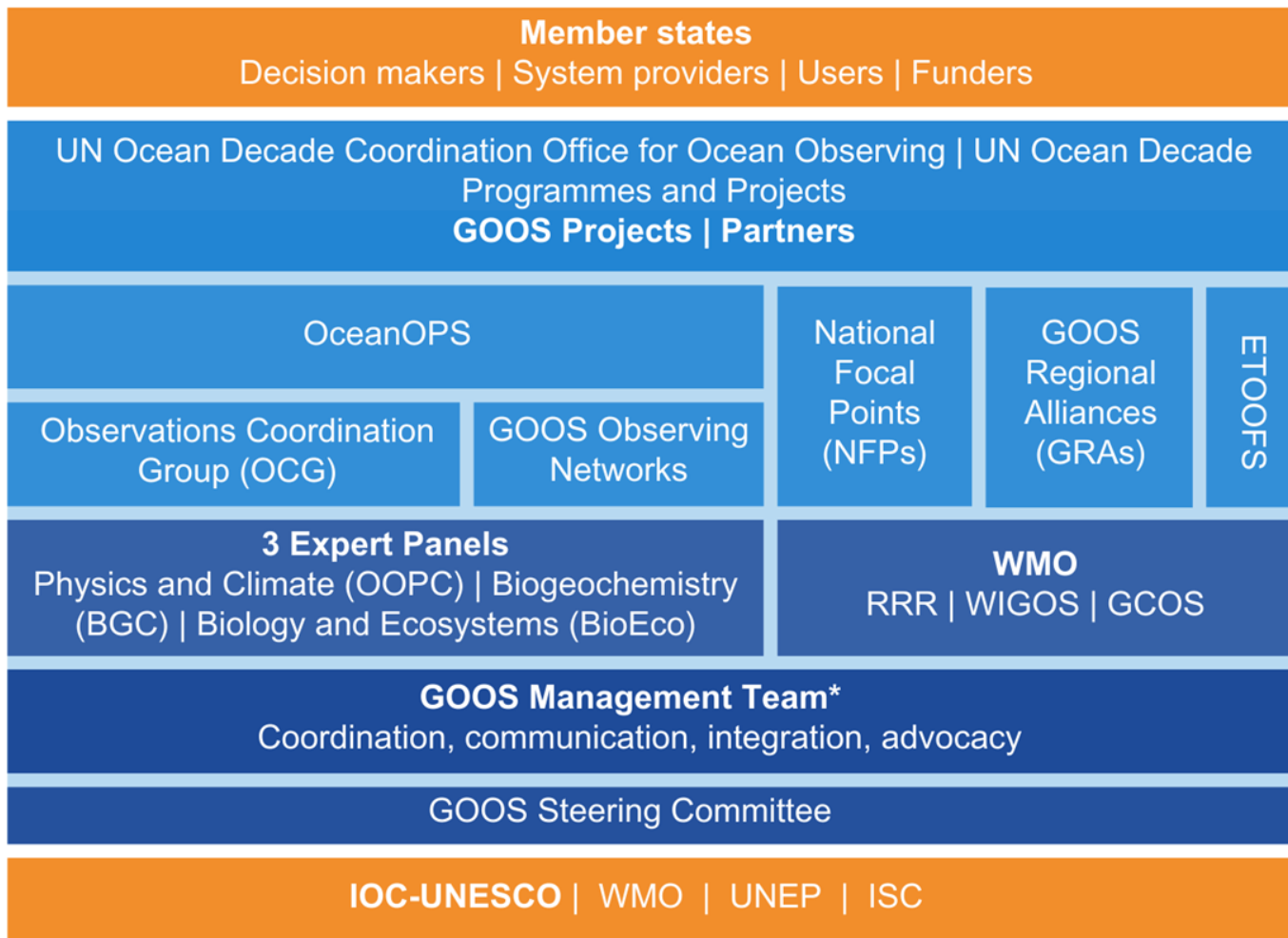
GOOS Structure

Observing coordination, metadata, data & modelling

Requirements

Connection with observing community

Sponsors



Science community

IODE | Data | Data portals

* GOOS Management Team HQ based at IOC secretariat, Paris

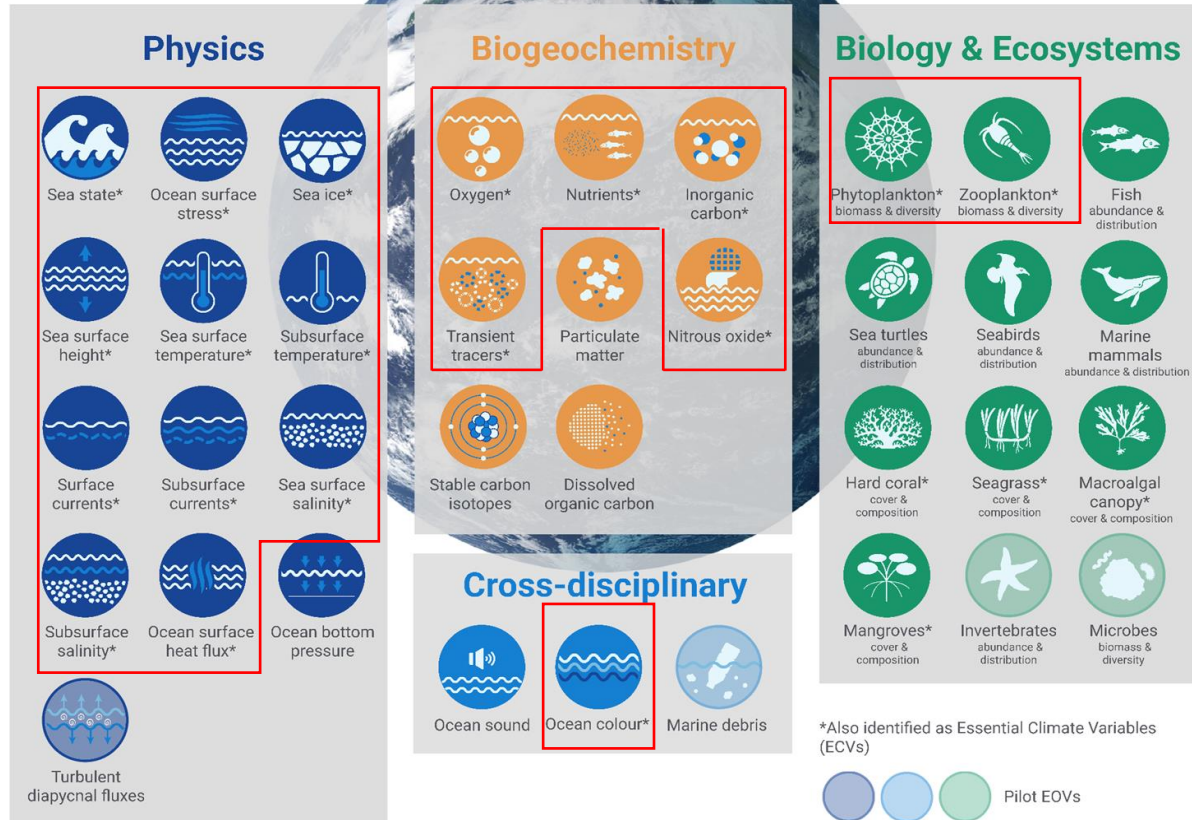
Advancements in ocean observing

36

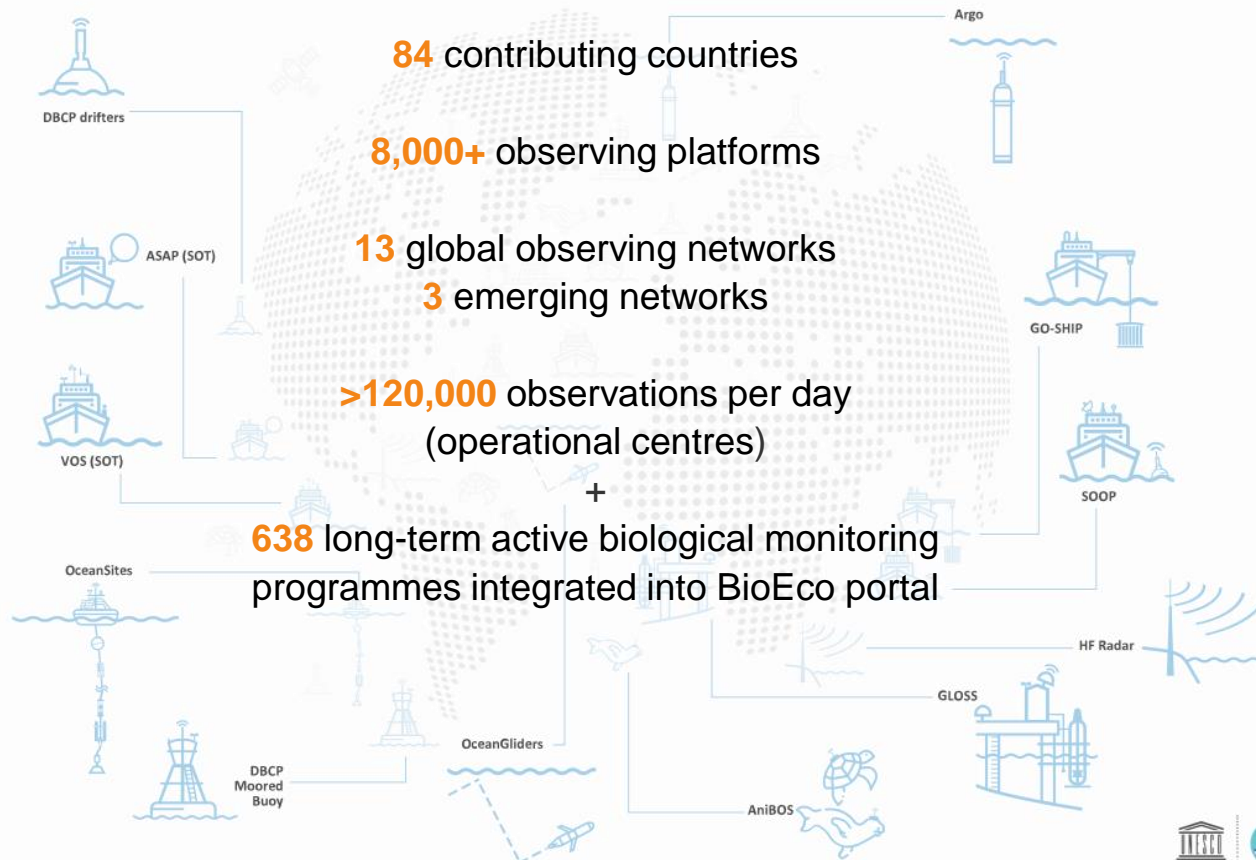
Essential Ocean Variables (EOVs)


19

EOVs are ECVs



Advancements in ocean observing





**Not sufficient to meet needs:
climate action
operational forecasting
sustainable ocean planning**

National Focal Point Role



National ocean observing system that is fit-for-purpose, integrated and sustained

National activities align nationally, regionally, and globally, lowering cost, increasing efficiency

Visibility of national ocean observing contribution to global system

Communicate with GOOS Member States and system around national needs

A dark blue circular logo with the word "GOOS" in white, bold, uppercase letters. The logo is centered on a background image of coral reefs underwater.

GOOS

National advocates ocean observations

Strengthen national and global ocean observing systems – inc connect with networks

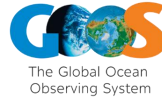
Increase efficiency and scope through cooperation and capacity sharing

Align priorities, understanding national needs, towards fit for purpose system

A sustained and sustainable critical ocean observing infrastructure

From the coast to the open ocean – From the surface to the sea floor
national – regional – global

Decision 4.1 IOC Executive Council 57 “Evolving GOOS”
<https://oceanexpert.org/document/34575>



1. Co-designed ocean observing system for operational services, as well as research
2. FAIR data for the Essential Ocean Variables with clear standards, QA and QC
3. Equitable, federated global ocean digital ecosystem and data community
4. Global, regional and national coordination, integration and advocacy
5. Build new economic thinking, literacy, capacity, innovation and partnerships





The Global Ocean Observing System

"Facts have to be discovered by **observation**,
not by reasoning"

Bertrand Russel (1872-1970)

Thank you

goosocean.org

