



The Global Ocean Observing System



GOOS Introduction

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IOC-UNESCO

GOOS: A critical infrastructure for ocean observing



36 Essential Ocean Variables (EOVs)

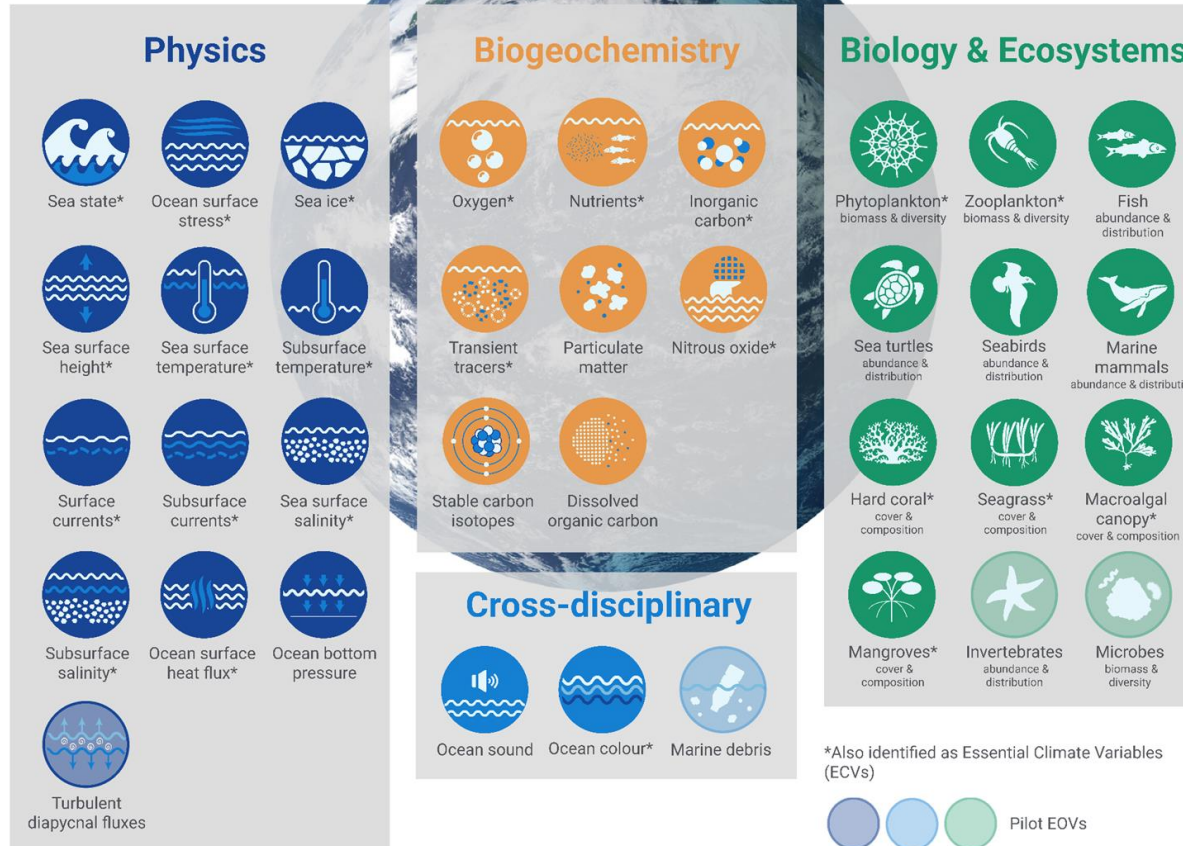
SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030



United Nations
Climate Change



International Legally Binding Instrument on Plastic Pollution 2024



Kunming-Montreal Global Biodiversity Framework



THE LAW OF THE SEA

+ Biodiversity Beyond National Jurisdiction Agreement

GOOS Today

84 contributing countries

8,000+ observing platforms

13 global observing networks

3 emerging networks

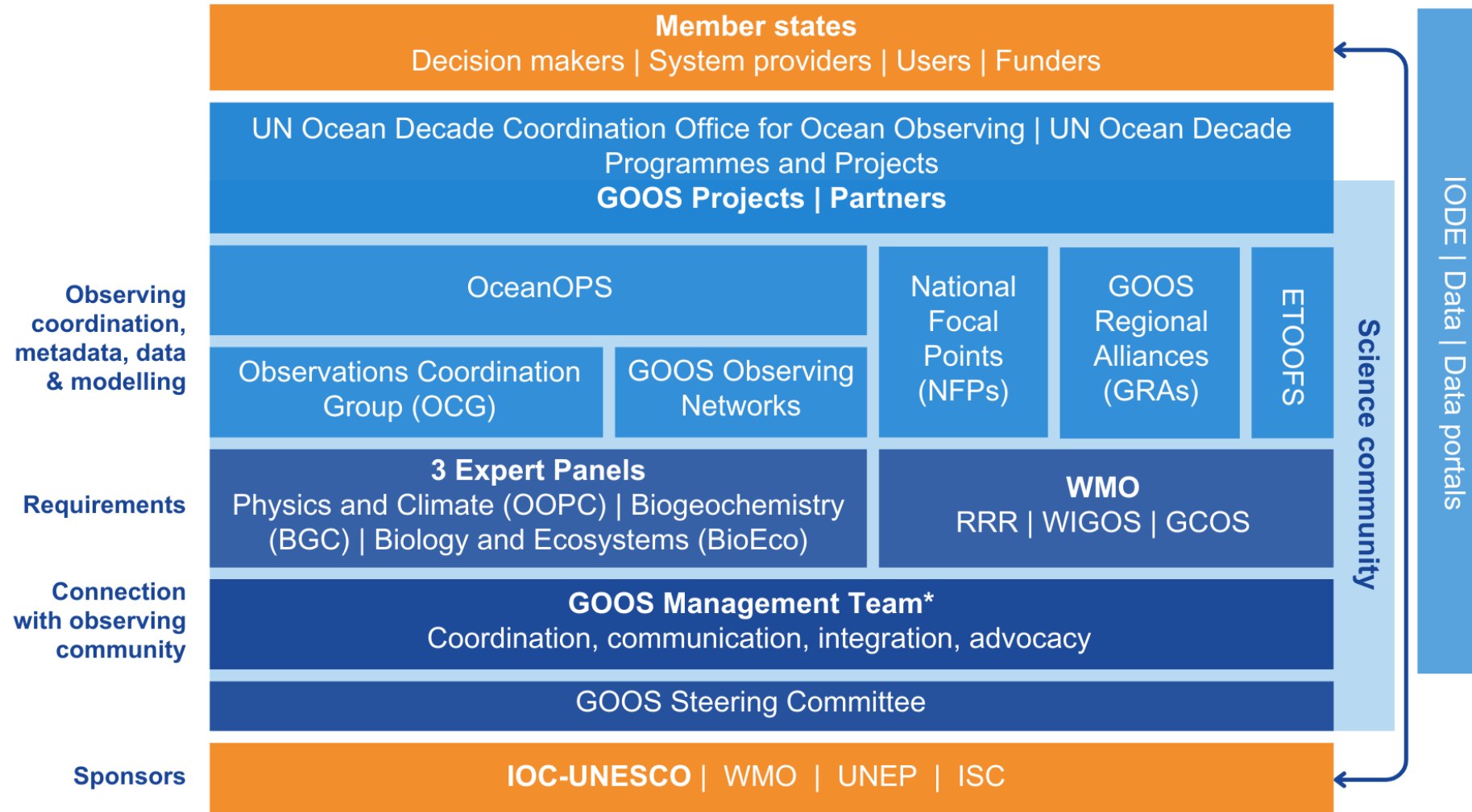
>120,000 observations per day
(operational centres)

+
638 long-term active biological monitoring
programmes integrated into BioEco portal

Three emerging observing networks

- Fishing Vessel Observing Network (FVON)
- Surface Ocean CO₂ Reference Observing Network (SOCONET)
- SMART (Science Monitoring And Reliable Telecommunications) Cable

GOOS Structure



The Global Ocean Observing System

2030 Strategy

Sustained observations for a wide range of applications



Ocean Observing Value

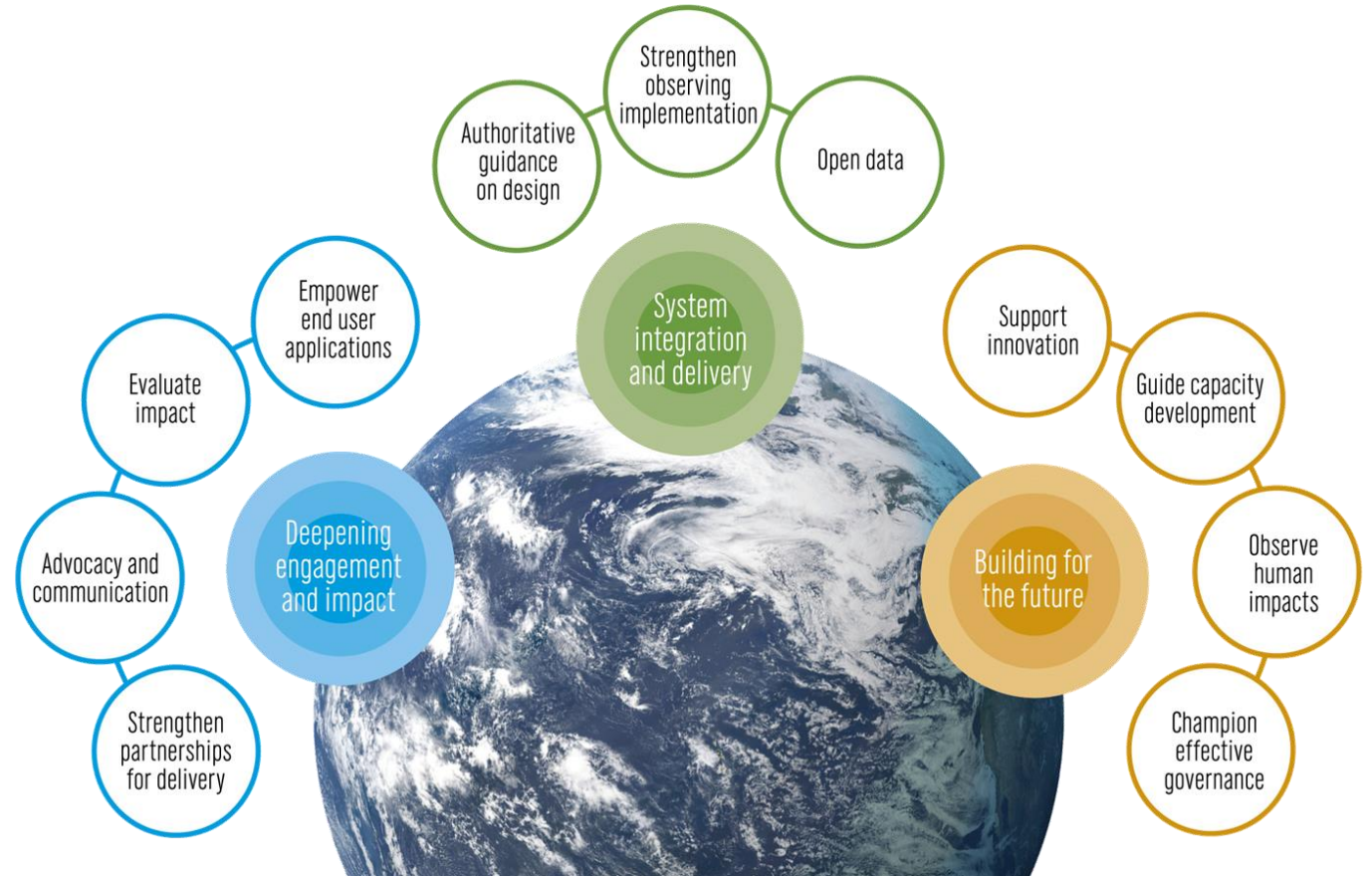
The GOOS 2030 Strategy: Goals

Vision

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

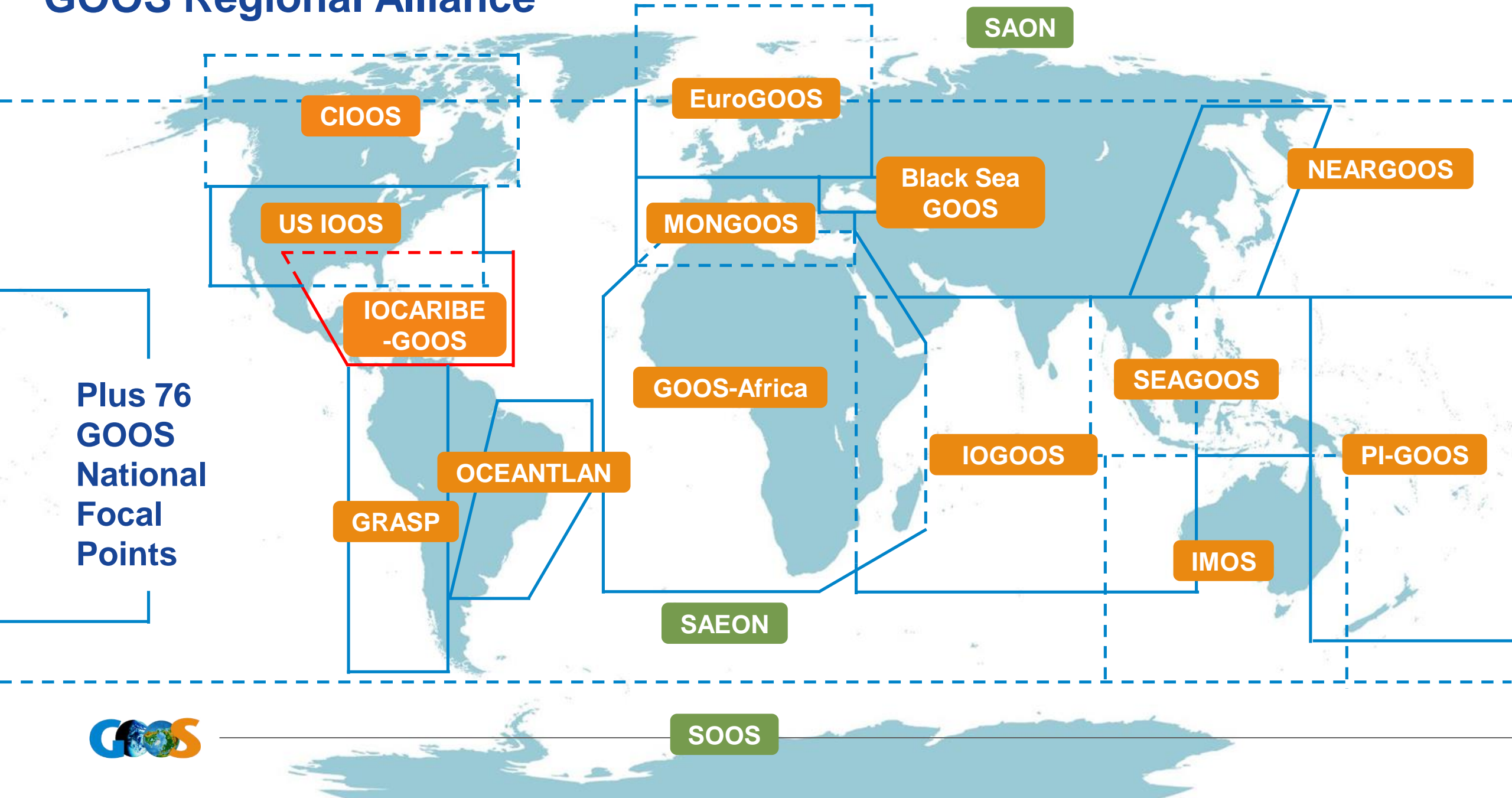
Mission

To lead the ocean observing community and create the partnerships to grow an integrated, responsive and sustained observing system



**Strategic
Objectives**

GOOS Regional Alliance



GOOS National Focal Point (NFP)

- 76 GOOS National Focal Points globally
- GOOS NFP Survey will go out soon!

GOOS National Focal Points in IOCARIBE Member States

Continent States	GOOS NFPs	Island States	GOOS NFPs
Belize		Antigua & Barbuda	N/A
Brazil	Y	Bahamas	
Colombia	Y	Barbados	
Costa Rica		Cuba	
France	Y	Dominica	
Guatemala		Dominican Rep.	
Guyana		Grenada	
Honduras		Haiti	
Mexico	Y	Jamaica	
Netherlands	Y	St Kitts And Nevis	
Nicaragua		St Lucia	N/A
Panama		St Vincent	N/A
Suriname	Y	Trinidad & Tobago	Y
UK	Y		
USA	Y		
Venezuela Bolivarian Rep.			

IMPLEMENTING OPERATIONAL OCEAN MONITORING AND FORECASTING SYSTEMS

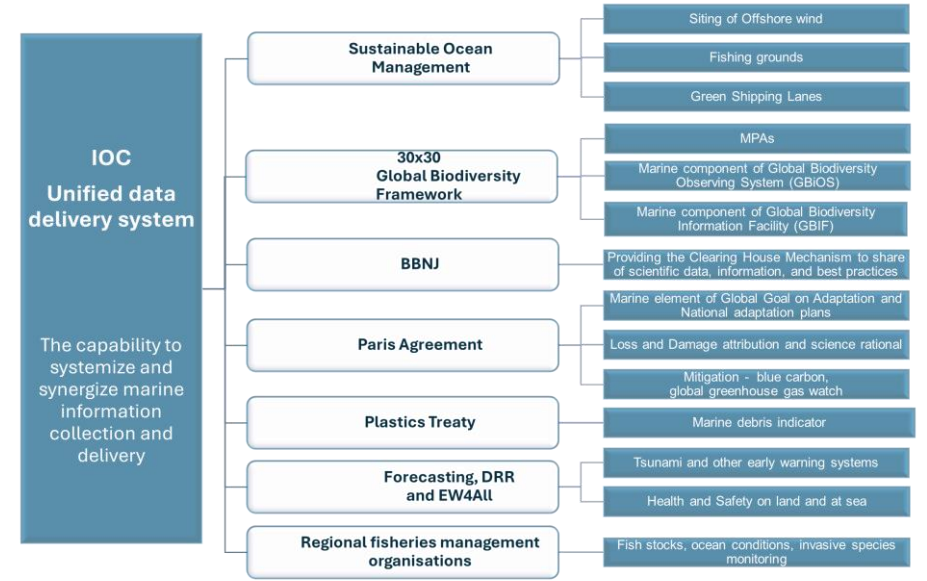
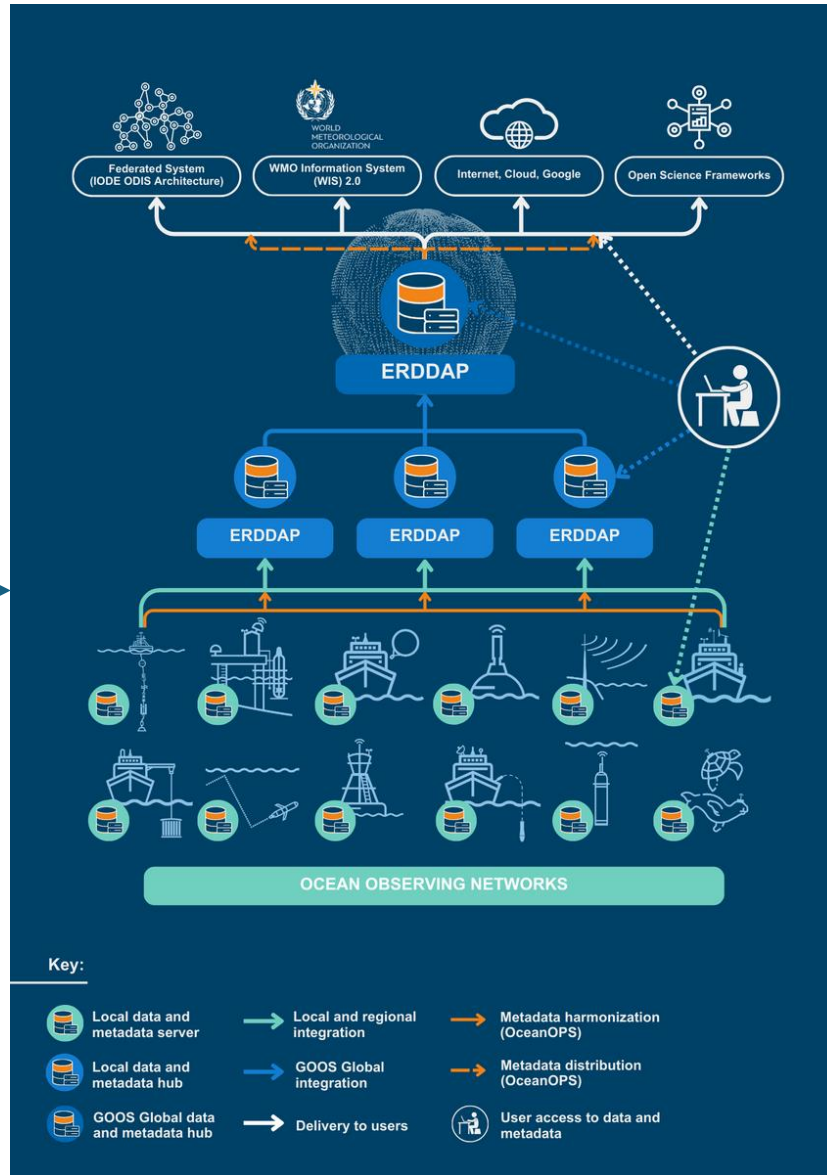
EDITORS: ENRIQUE ALVAREZ FANJUL, STEFANIA CILIBERTI, AND PIERRE BAHUREL
 GOOS/ETOOFS SECRETARIAT: DENIS CHANG SENG



Expert Team on Operational Ocean Forecast Systems

- ETOOFS provides states and organizations with high-level standards, support and guidance for developing efficient, reliable and interoperable ocean monitoring and forecasting systems - essential prerequisites for tackling climatic, environmental and societal challenges.

Data



IOC Integrated Data Ecosystem (proposed)

- With close collaboration with IODE and OceanOPS, relevant IOC sections, DCO-data, DCO- observation and DCC-prediction, WMO, OBIS, ODIS, etc.
- Set in place a process for clear provenance of GOOS EOVS data.

GOOS and UN Ocean Decade



2021-2030 United Nations Decade of Ocean Science for Sustainable Development



GOOS | At the heart of the Ocean Decade

“ Ocean Observing Co-Design will develop a more **user-focused co-design process to evolve a truly **integrated, responsive ocean observing system**.**

GOOS | Ocean Observing Co-Design
by The Global Ocean Observing System

“ CoastPredict will revolutionise Global Coastal Ocean observing and forecasting, offering **open and free access to coastal information and predictions.**

GOOS | CoastPredict
with The Global Ocean Observing System

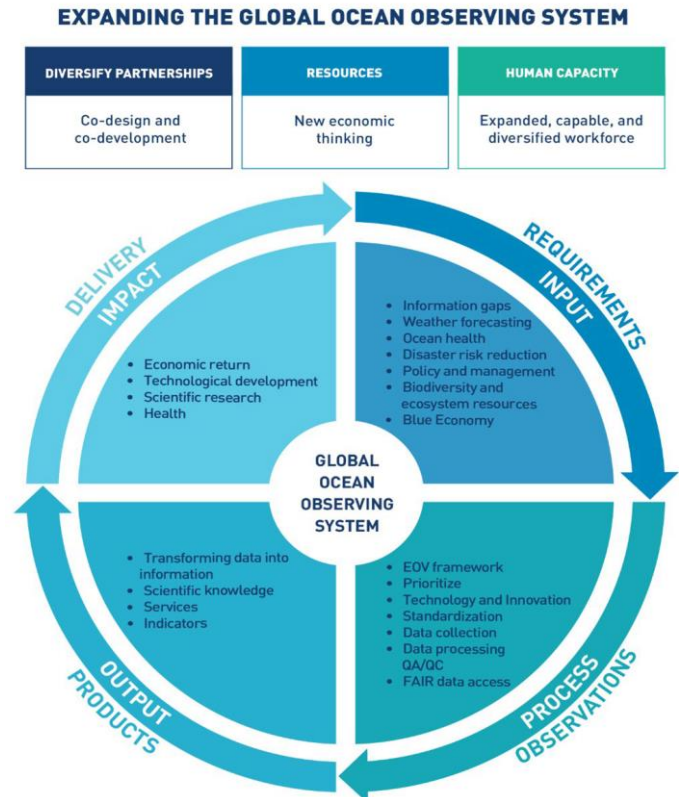
“ Observing Together will **leverage the Global Ocean Observing System’s existing networks and expertise to bring needed observations and forecasts to community users and into global data streams, making every observation count.**

GOOS | Observing Together
by The Global Ocean Observing System

Ocean Decade Vision 2030 White Papers

Challenge 7: Sustainably Expand the Global Ocean Observing System

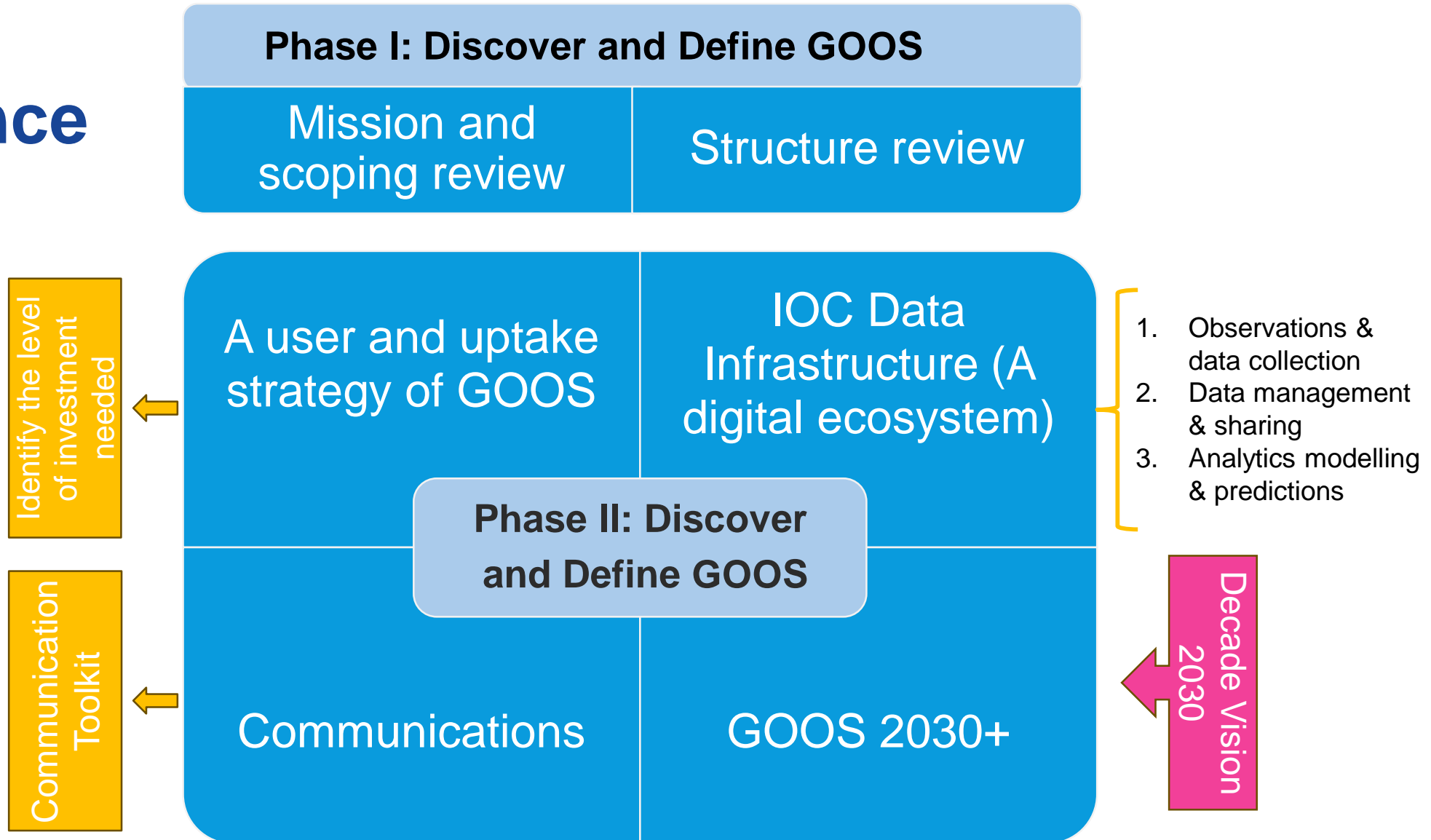
The United Nations Decade of Ocean Science for Sustainable Development (2021-2030)

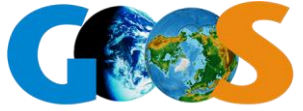


GOOS UN Ocean Decade Programmes

Recommendations: Expanding global ocean observation capabilities | Translation of observations into information | Fostering diversified partnerships | Building a capable and diversified workforce | Emphasising a new economic thinking for resourcing ocean observing

GOOS Governance evolving





The Global Ocean Observing System

Thank you

goosocean.org



unesco
Intergovernmental
Oceanographic
Commission



WORLD
METEOROLOGICAL
ORGANIZATION



UN
environment
programme

International
Science Council

