# Underpinning a wide range of applications

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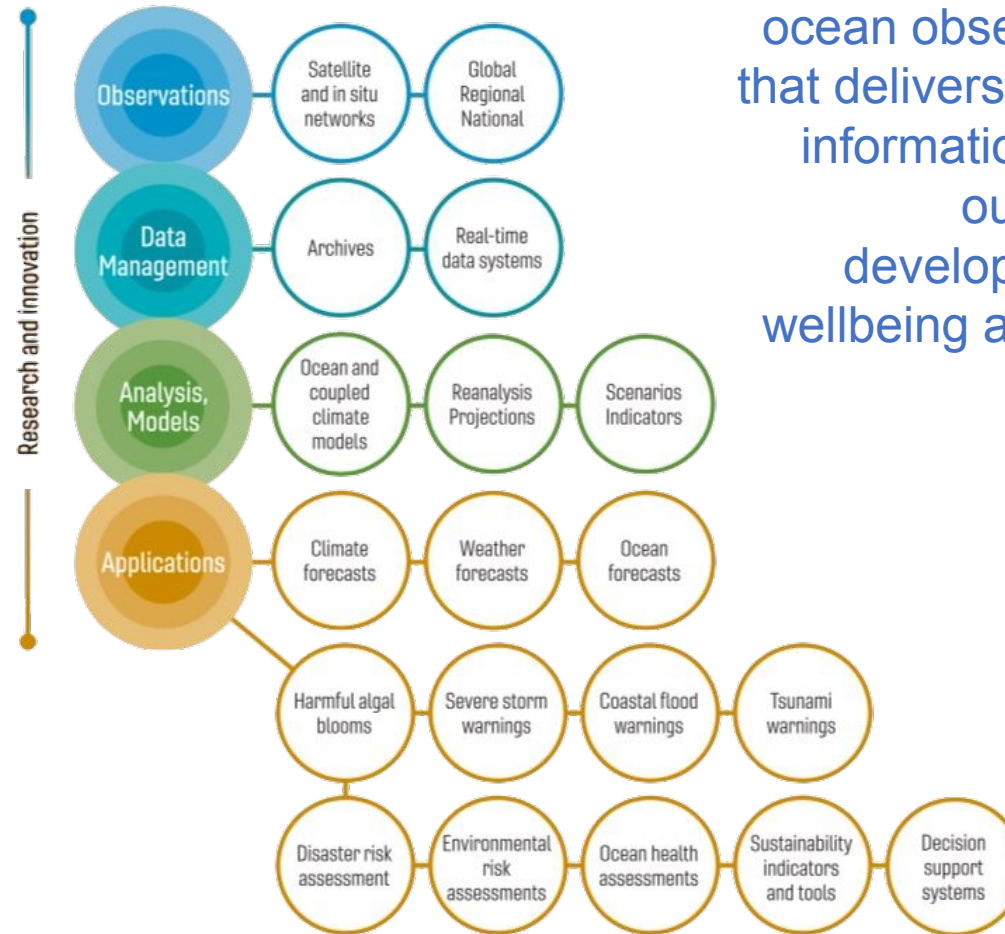
GOOS Today

- 84 countries, 8,700+ observing platforms, 13 global networks
- More than 100,000 observations per day - delivering an accessible, safe and productive ocean
- Global observing networks, e.g. Argo, GO-SHIP, Drifting Buoys, plus emerging networks, e.g., OceanGliders, HF Radar.
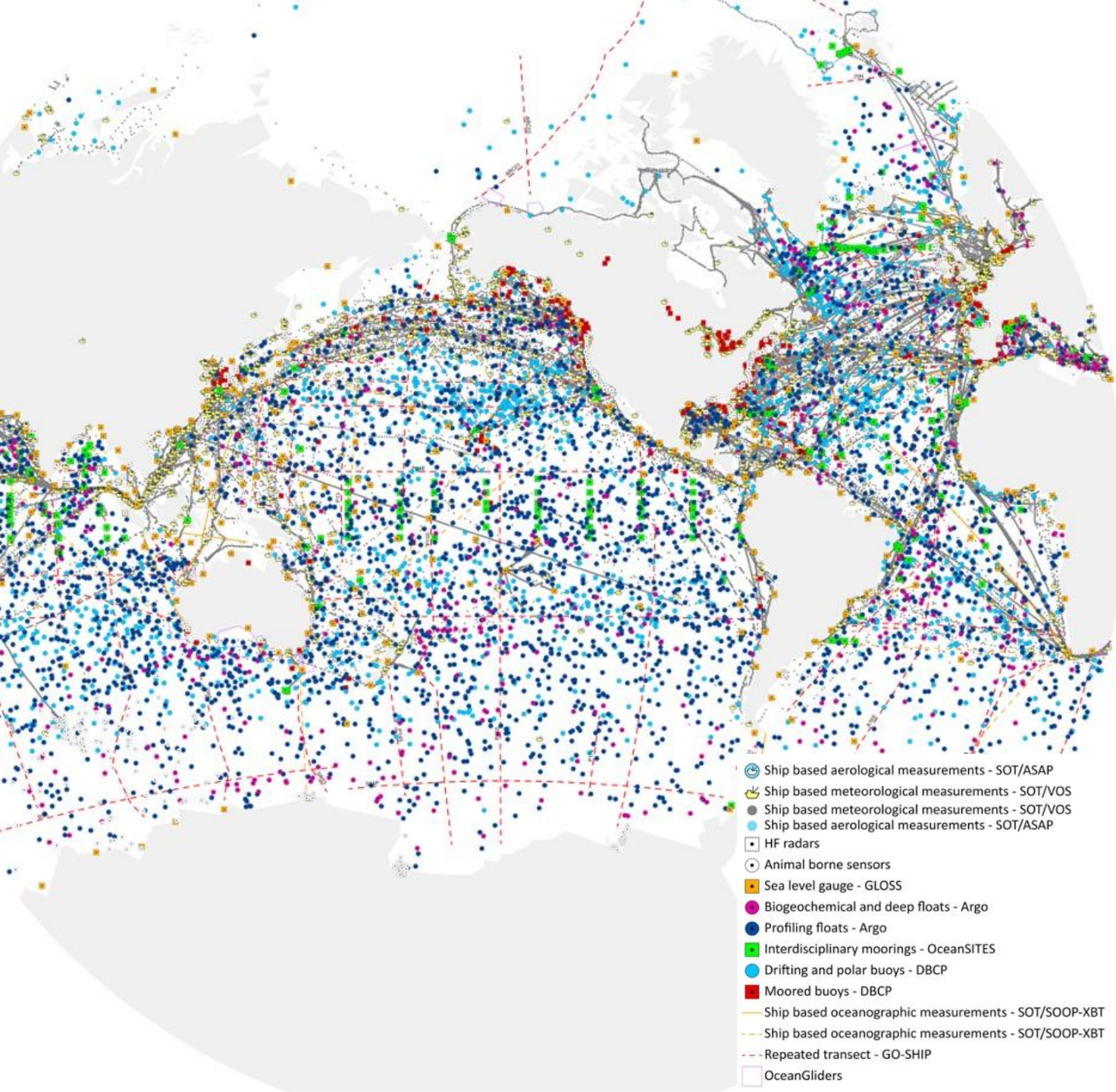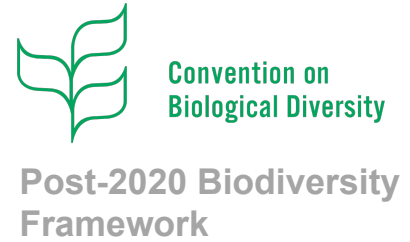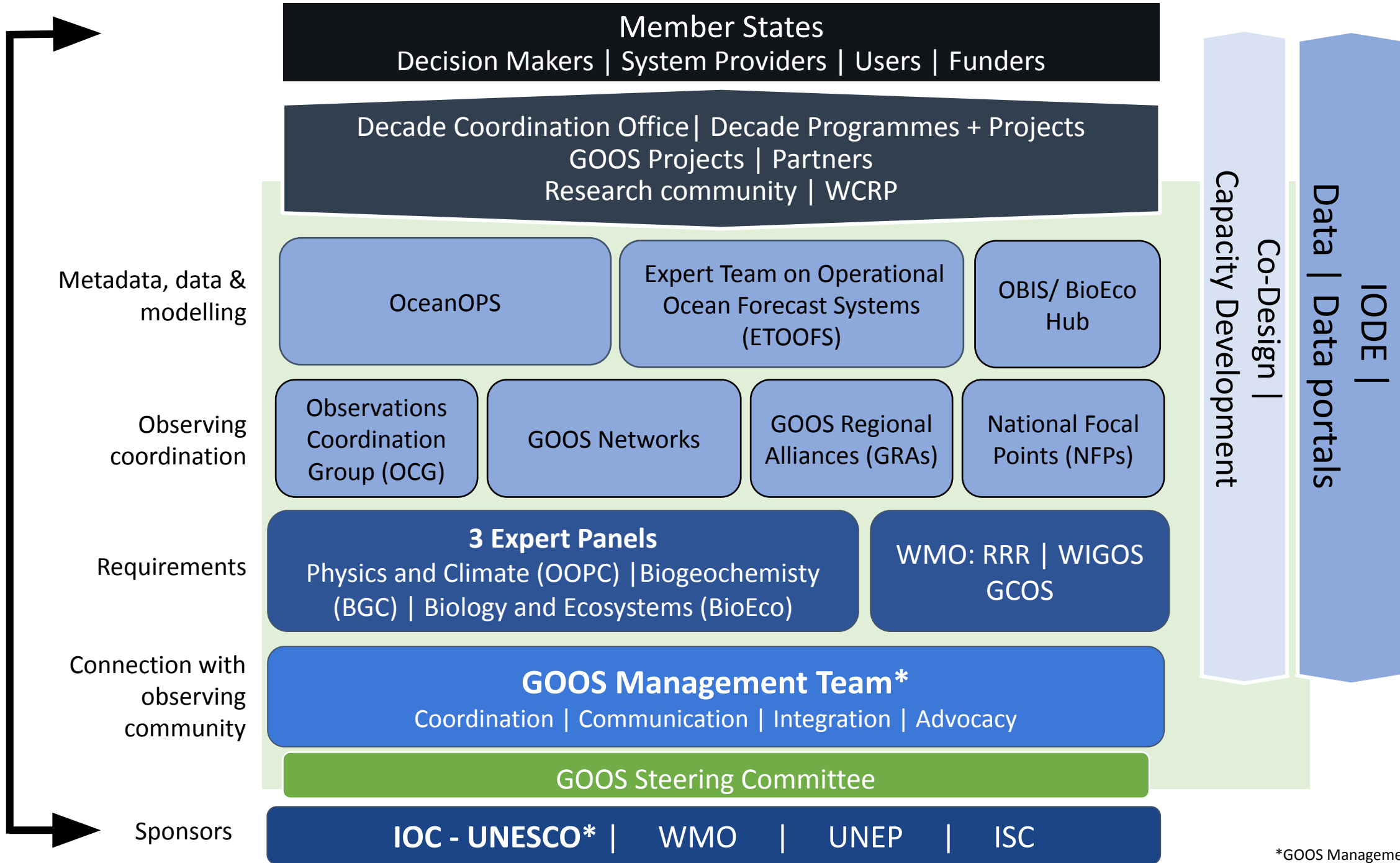
"The weather forecasting systems will run off the rails if they don't have the surface pressure information over the ocean to constrain them" - Lars Peter Riishojgaard, Director of the Earth System Branch WMO

Legend:
- Ship based aerological measurements - SOT/ASAP
- Ship based meteorological measurements - SOT/VOS
- Ship based meteorological measurements - SOT/VOS
- Ship based aerological measurements - SOT/ASAP
- HF radars
- Animal borne sensors
- Sea level gauge - GLOSS
- Biogeochemical and deep floats - Argo
- Profiling floats - Argo
- Interdisciplinary moorings - OceanSITES
- Drifting and polar buoys - DBCP
- Moored buoys - DBCP
- Ship based oceanographic measurements - SOT/SOOP-XBT
- Ship based oceanographic measurements - SOT/SOOP-XBT
- Repeated transect - GO-SHIP
- OceanGliders

35 Essential Ocean Variables (EOVs)

Member States
Decision Makers | System Providers | Users | Funders

Decade Coordination Office | Decade Programmes + Projects
GOOS Projects | Partners
Research community | WCRP

Metadata, data & modelling
- OceanOPS
- Expert Team on Operational Ocean Forecast Systems (ETOOFS)
- OBIS/ BioEco Hub

Observing coordination
- Observations Coordination Group (OCG)
- GOOS Networks
- GOOS Regional Alliances (GRAs)
- National Focal Points (NFPs)

Requirements
- **3 Expert Panels** Physics and Climate (OOPC) | Biogeochemisty (BGC) | Biology and Ecosystems (BioEco)
- WMO: RRR | WIGOS GCOS

Connection with observing community
- **GOOS Management Team***
  Coordination | Communication | Integration | Advocacy

GOOS Steering Committee

Sponsors
IOC - UNESCO* | WMO | UNEP | ISC

Capacity Development

Co-Design |

IODE | Data | Data portals

*GOOS Management Team HQ based at IOC secretariat, Paris

Regional Alliance & National Focal Points
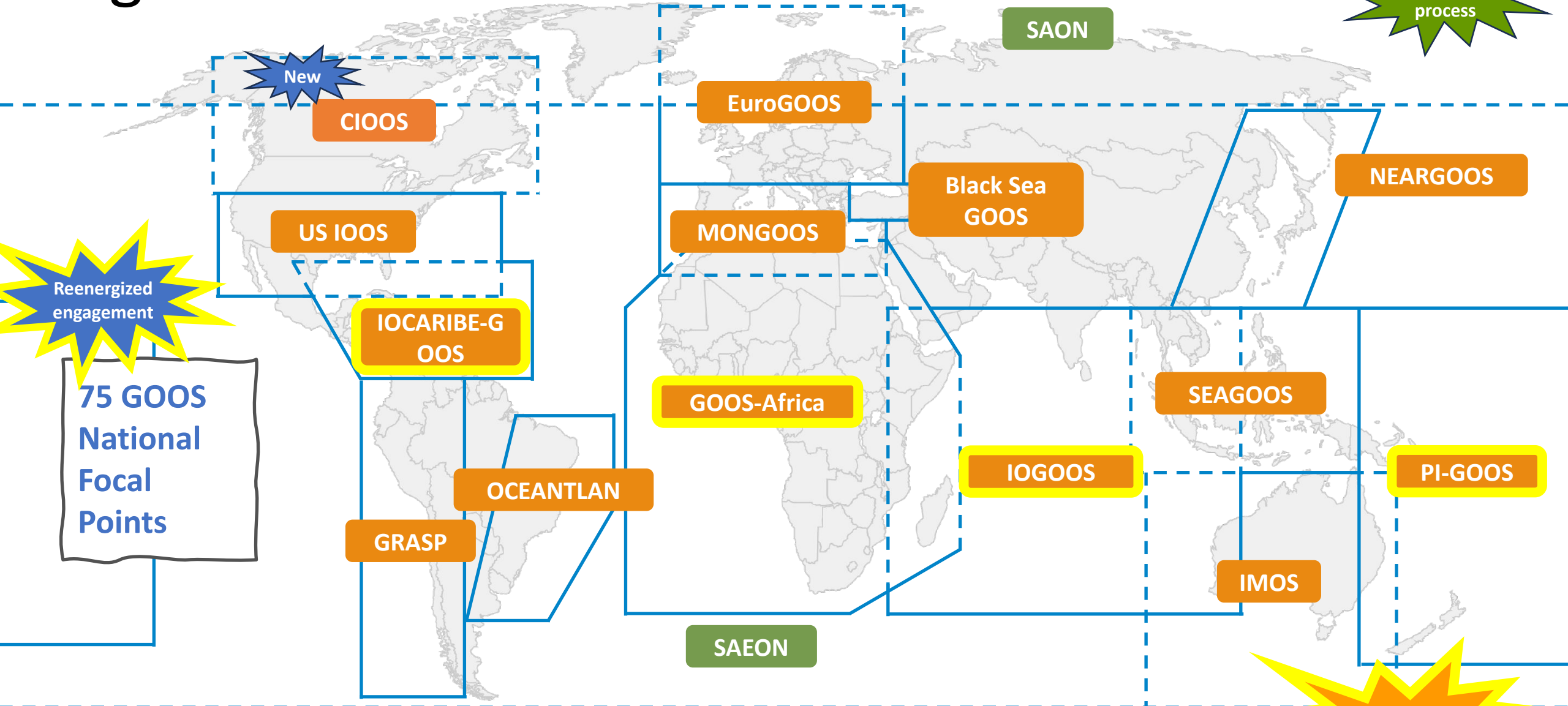
2024 OCEAN DECADE CONFERENCE

BARCELONA STATEMENT

12 April 2024

Barcelona, Spain

The Conference discussed and identified **priority ocean science infrastructure needs** including for marine pollution monitoring, ocean observations, interoperable ocean data, and for the enhanced use of adapted, innovative technology to underpin the equitable generation, access, and use of observations, data, and knowledge across all Ocean Decade Challenges, and by all nations.

SC13 – The Decade Conference "After Party"

Objectives

- Discuss progress on GOOS

- Steer priority activities of GOOS

- Examine and explore how co-sponsors and other entities can engage with and support GOOS and vice versa

- Form ambition for digital (data and metadata) 'ecosystem' across GOOS

SC13 approach and outcomes

- Based on the focus provided at SC12

- Each session will provide presentation and Guiding Questions

- Discussions - Your steering to identify action/ decision/ recommendations / priorities

- This will feed into biennial report to MS and to focused activities moving forward