The Global Ocean Observing System

Session 1

Joanna Post, Emma Heslop

Thirteenth GOOS Steering Committee Meeting [SC-13]

Barcelona 13th-16th April 2024

Update on Progress

- 2030 Strategy Roadmap described issues, actions and key outcomes across 11 Strategic Objectives
- 72 actions (monday project management software), 9 now complete, number are dormant, new actions recommended
- SC-13 Progress Report - tracks status and assessment of progress towards outcome - 4 years in
- Assessment based on evaluation against a created measure/criteria

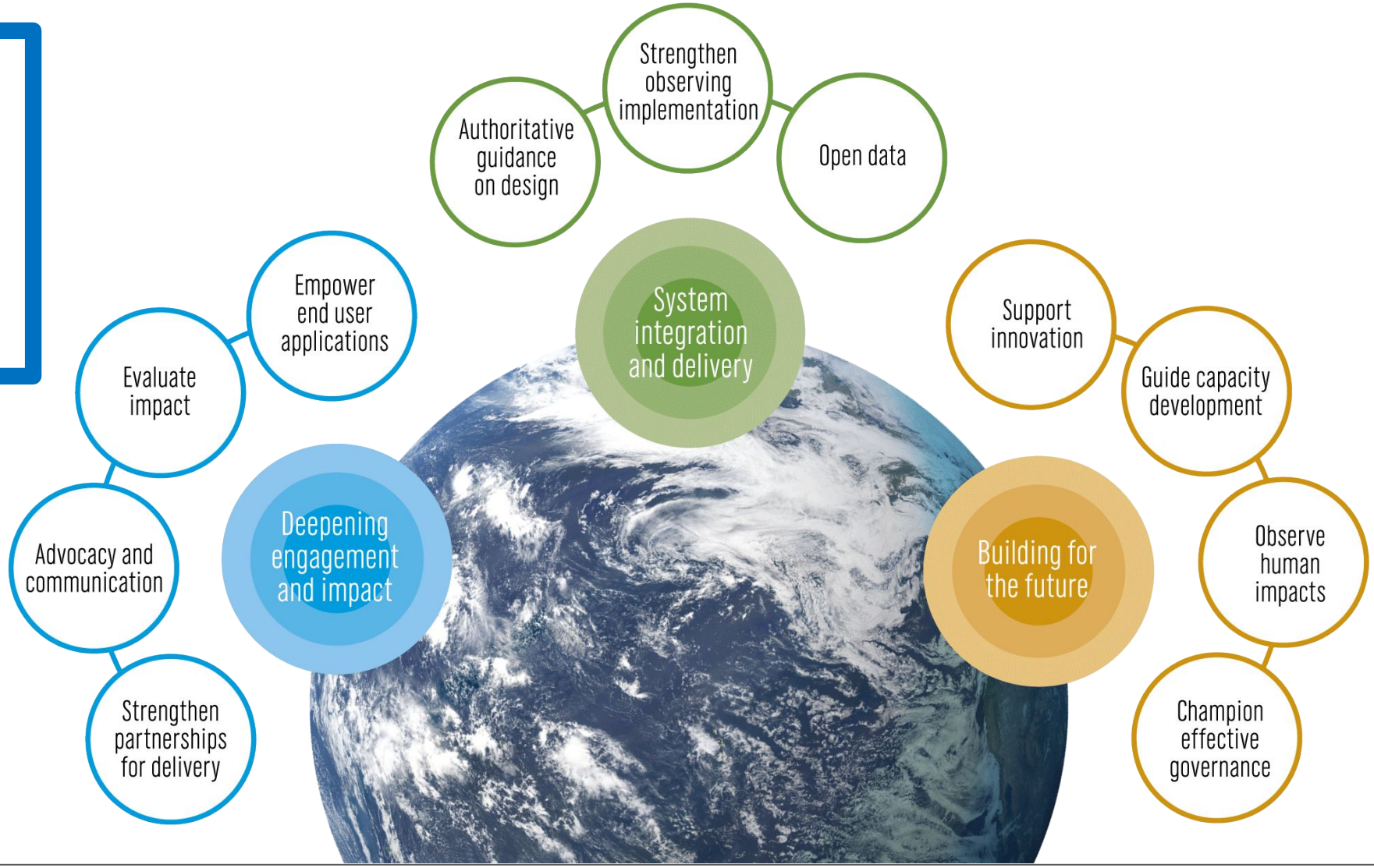
The GOOS 2030 Strategy

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



Goals

Green - on track/complete
Orange - slow progress
Red - low progress

Goal 1: Engagement and impact

- Good work in raising visibility,
- Red - View of the observing system to meet societal goals / Ability to evaluate system for adequacy for societal needs

Goal 2: Integration and delivery

- More green, success best practices, maturing networks, interoperability data, operational tracking, data architecture, metadata, standards
- Red - Modular design, coordination towards achieving common goals

Goal 3: Build for the future

- Increasing observational capability, more countries participating in GOOS, human impact variables, voice for ocean observations
- Red - faster adoption of new technology

No.	SO8 - support innovation	
1	Faster adoption of new technology	
2	Increase scope, efficiency and observational capability	
3	Focused and faster technological development to meet observing challenges	
No.	**SO9 - capacity development**	
1	Greater number of countries actively participating in the GOOS	
2	A greater number of countries with capabilities in ocean forecasting	
3	New practices and data products addressing the needs of diverse countries	
No.	**SO10 - observe human impacts**	
1	Pilot partnership projects for variables related to human activities	
2	Recommendations for implementation of human activity in the EOV framework	
No.	**SO11 - champion effective governance**	
1	Governance architecture for the global ocean observing system, that integrates GOOS and partners in a framework, with clarity in roles, processes and evaluation	
2	Voice for ocean obs/services, with stakeholders contributing to define the message	
3	Improved global observing system delivery, responsiveness and sustainability	
4	Greater support for national systems and their needs for ocean information	

Recommendations - Goal 1

SO1 - partnerships for delivery

- Mapping who our key delivery partners for each delivery area, support more in BioEco sphere
- GOOS focus engagement
  - GEA and MEA - UNEP-WCMC and the CDB
  - GEO to facilitate broader engagement and collaboration
- **Evolve SO1 - partnerships and co-design for delivery**

SO2 - communications

- Consider messaging on sustainability

SO3 - evaluate impact

- OCG network maturity metrics is a first step, make priority?

SO4 - empower end user applications

- **GOOS provide strategic direction to the Indicators TT**
  - **Session 4 - cross panel report out**
- **Evolve SO4 - empower and deliver end user applications**
  - EOV products - **Session 6 Data**
  - Indicators **- Session 6 Data - Session 4 Cross Panel**
  - GRAS - **Session 7 - regional implementation**
  - Co-Design **- Session 6 - Decade**
  - GRA BOOC - **Session 7 GRA**

Recommendations - Goal 2

SO5 - authoritative guidance

- Increase synergy with Ocean Acidification (OARS) Outcomes
- **Design a process for regularly assessing observing priorities** (GCOS, RRR, Co-Design, OARS, WG7 Vision Paper) - asked for stakeholders (2 years, SC, national focal point/GRA input, recognised IOC)
- **Develop a GOOS Carbon Strategy (2024/2025) - Session 3**
- BioEco connection with GRAs to expand multi-observations
  - **2024 GRA Forum in Barcelona**

SO6 - strengthen implementation

- OBPS - improve labelling, practices, best practices, etc.
- OCG facilitate progress biological observations from networks
- OCG to consider how it will support expansion of networks
  - **OCG-15 discussion May 2024**
- Increase harmonisation across GOOS
  - metadata, indicators, EOV products - **Session 9 Data**
  - networks, metrics, attributes etc,

SO7 - FAIR Data

- Complete new GDAC for BGC EOVs.
- GOOS Data Products - **Session 9 Data**
- **Advance cross-GOOS data and metadata flow and tracking -** digital ecosystem **- Session 9 Data**
- Recognition OBIS role monitoring BioEco data and metadata
- Implement OCG Data Implementation Strategy - **Session 9 Data**

Recommendations - Goal 3

SO8 - support innovation

- Cost efficient sensor development - Dialogues with Industry session, OARS (BGC), Decade Project

SO9 - capacity development

- **GOOS develop partnership with IODE/OTGA - courses+**
- **Enable community of practice capacity development in GOOS**
- Investigate mechanisms to support CD activities within regions through GRAs e.g instrument donation, sharing of training materials.

SO10 - observe human impacts

- Use ocean sound IP to identify next steps - GRAs and OCG?
- Will an IMDOS implementation plan be shared? Are there pilots to collaborate on with GRAs/OCG? New action?
- **Discuss development of new class of human pressure EOVs**

SO11 - champion effective governance

- Clear articulation structure and where decisions are taken in GOOS
- Add tracking of partners action under SO11, recognise contribution
- GOOS should decide priority of action regarding SOFF

Goals

Goal 1: Engagement and impact

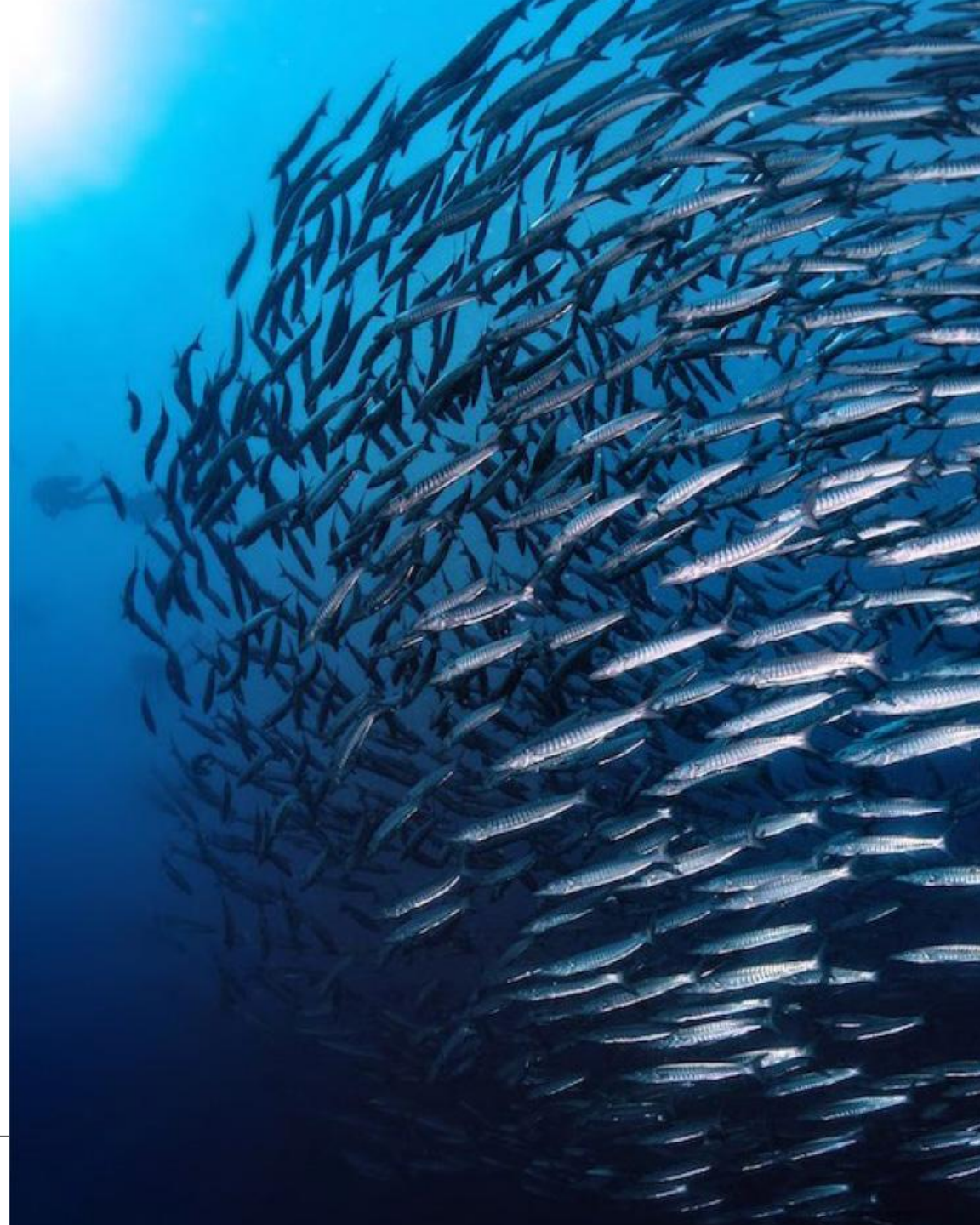
- Good work in raising visibility,
- **Red - View of the observing system to meet societal goals / Ability to evaluate system for adequacy for societal needs**

Goal 2: Integration and delivery

- More green, success best practices, maturing networks, interoperability data, operational tracking, data architecture, metadata, standards
- **Red - Modular design, coordination towards achieving common goals**

Goal 3: Build for the future

- Increasing observational capability, more countries participating in GOOS, human impact variables, voice for ocean observations
- **Red - faster adoption of new technology**



Recommendations

Objectives - focus

- Adjust name - co-design

Actions - rationalise

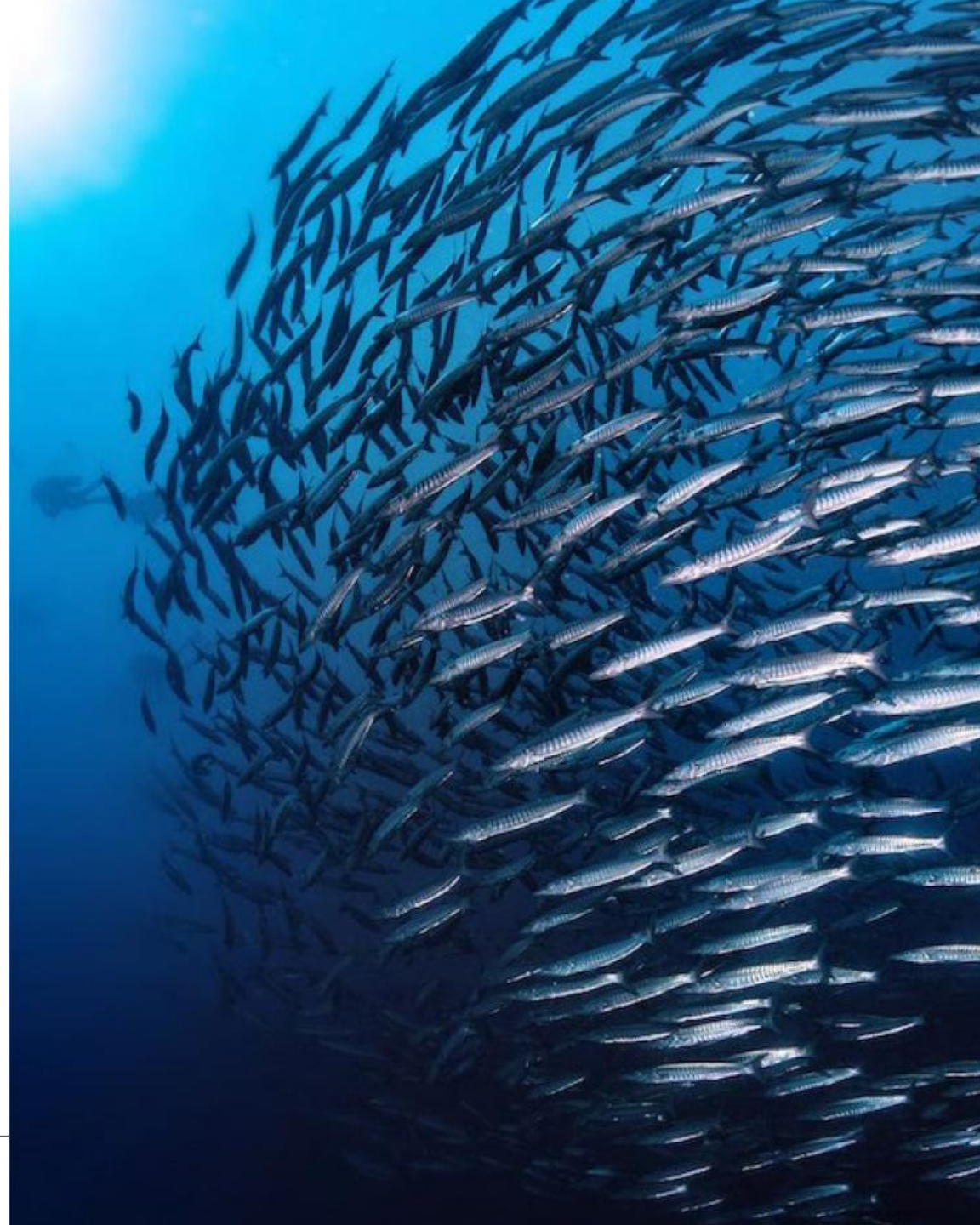
- Remove dormant/in plan, move (completed), add new

Outcomes - clear and trackable

- Remove ‘overarching’ outcomes to new category, others to more appropriate objective
- Select 2 or 3 per goal - make them **key results**
- GOOS Exec agree criteria - concrete as possible
- >>OKRs

Reporting transparency

- External Summary Report - publish, with SC message
- Visibility and transparency
- Also for IOC, NFPs etc.



Update on Progress