



The Global Ocean Observing System
goosocean.org

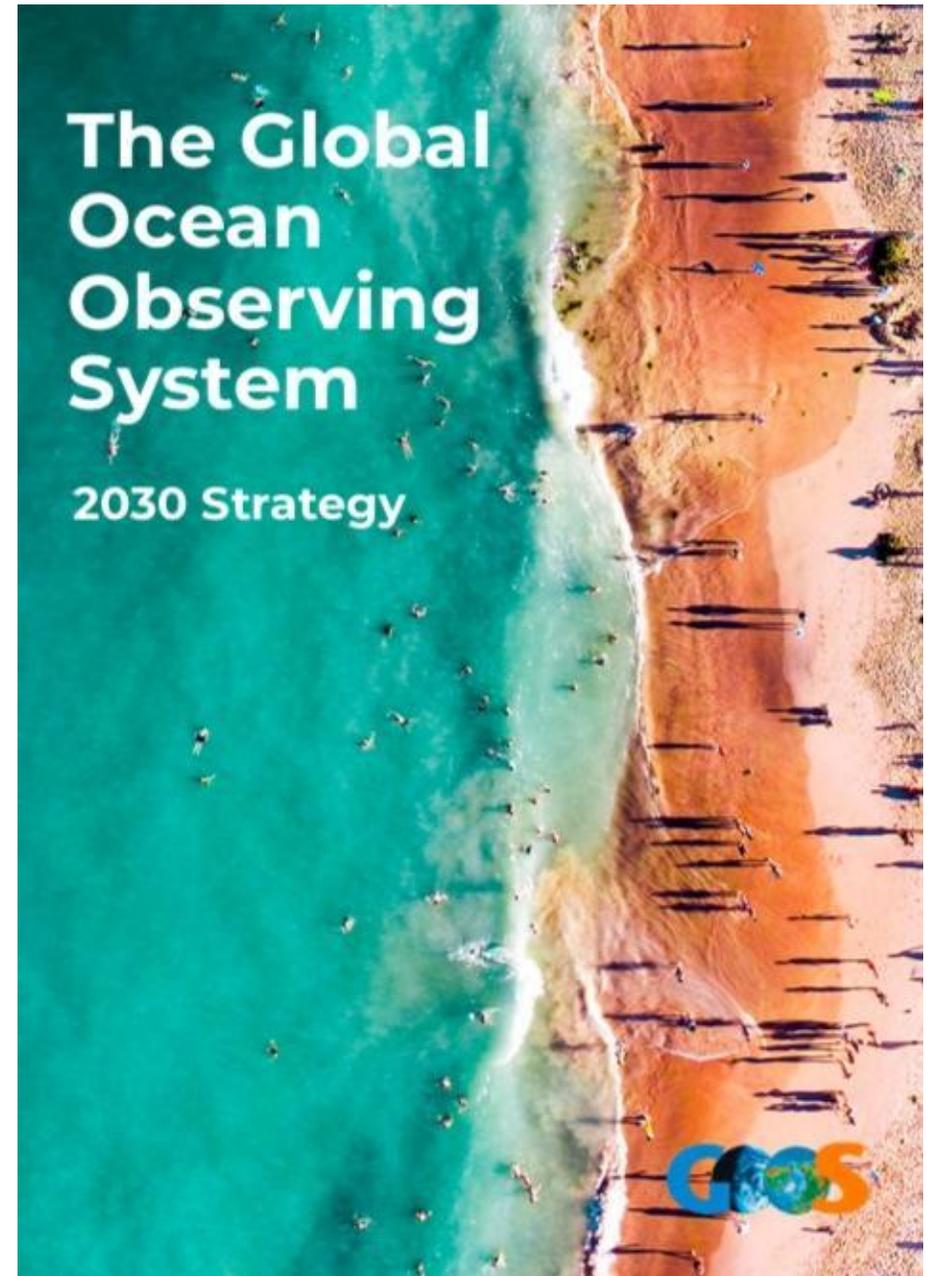
GOOS 2030 Strategy, EOOS & EuroSea

Dr. Emma Heslop
EuroSea Kick Off Meeting
Brussels, 27-29 November, 2019
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An ambitious strategy for the Global Ocean Observing System

Implementing this strategy will demand a step change in the level of effectiveness of partnerships across the scientific and end-user communities.



Why a strategy for 2030?



A healthy and safe ocean is fundamental to the Earth; it regulates climate and provides transport, food, livelihoods, and space for recreation.

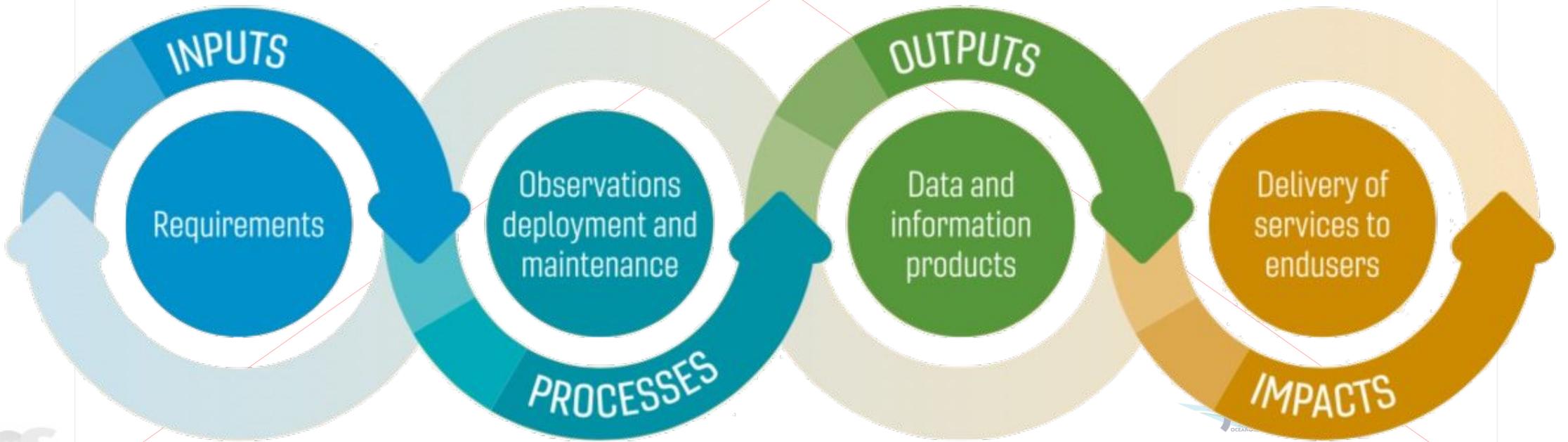
Long-term ocean observing is essential to our ability to provide relevant information to support a sustainable ocean.

Why an improved Ocean Observing System?



We currently make environmental decisions and invest financial and human resources based on assumptions, anecdotal evidence, and patchy data. There is the need to identify what information is already available, how we can fill information gaps, and promote data collection by governments, companies, academics, and citizens

United Nations Environment Sept 2019



We need a **step change** in ocean observing

We will need :

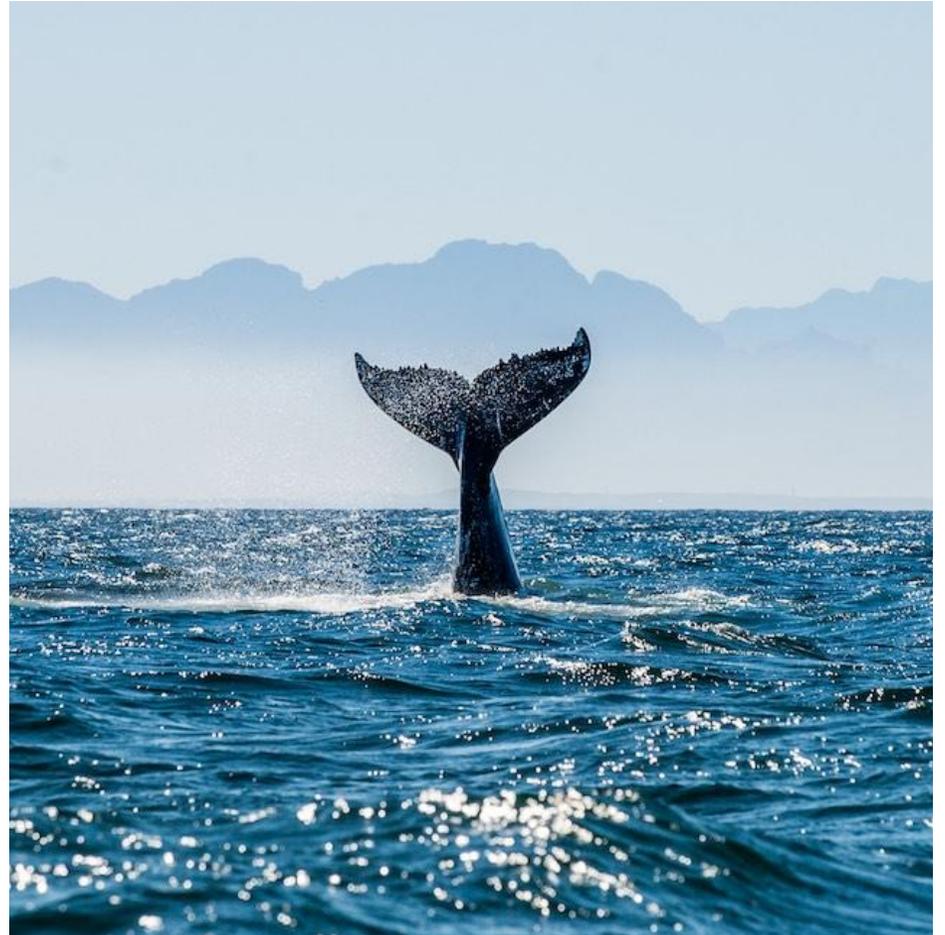
- Growing **integrated** observing capacity
- Proliferation of output systems
- Improved connection from observations to users

We struggle to get the recognition and support required to build and sustain the ocean observing, data and information system the world needs.



Vision

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

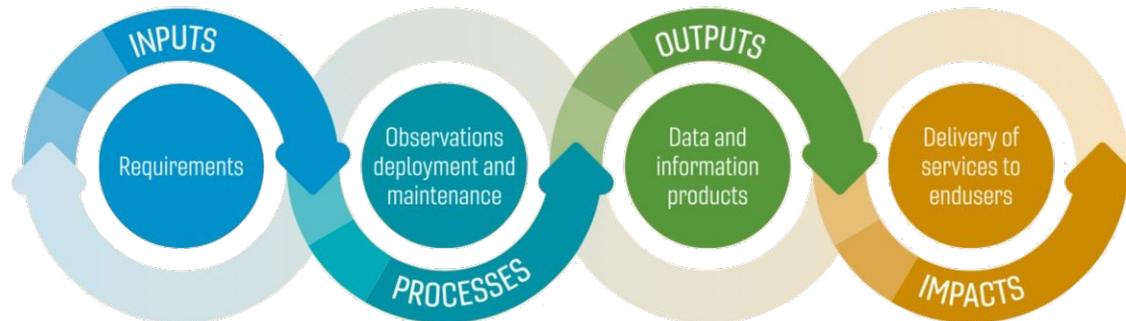


Delivery across 3 target application areas

Climate

Operational services

Ocean health





The need for expansion of a global ocean observing system, designed to meet the requirements of a broad suite of users, is clear and urgent.

GOOS Mission

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



Global Ocean Observing System 2030 Strategy

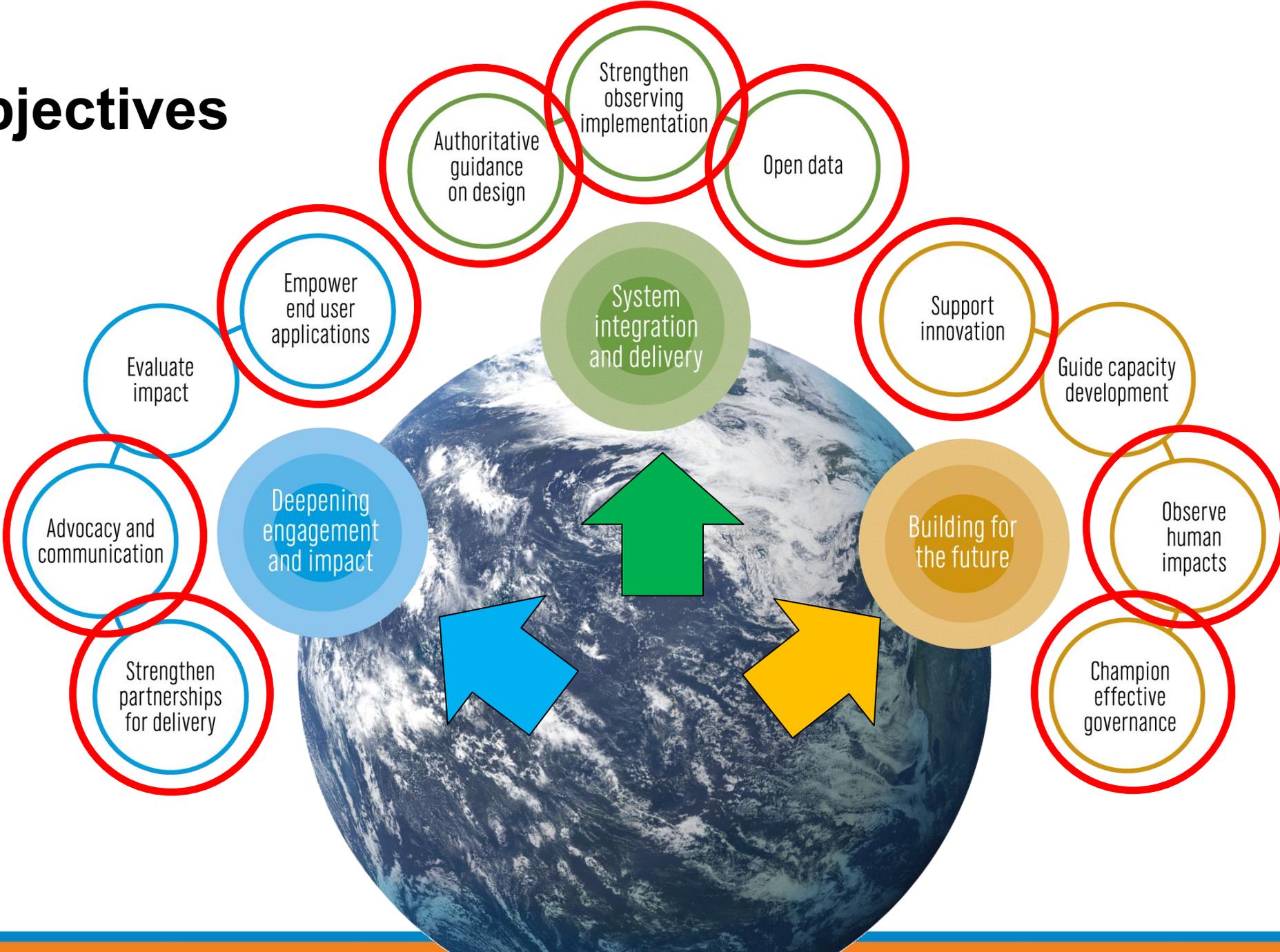


11 Strategic Objectives

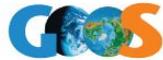
System integration and delivery

Deepening engagement and impact

Building for the future

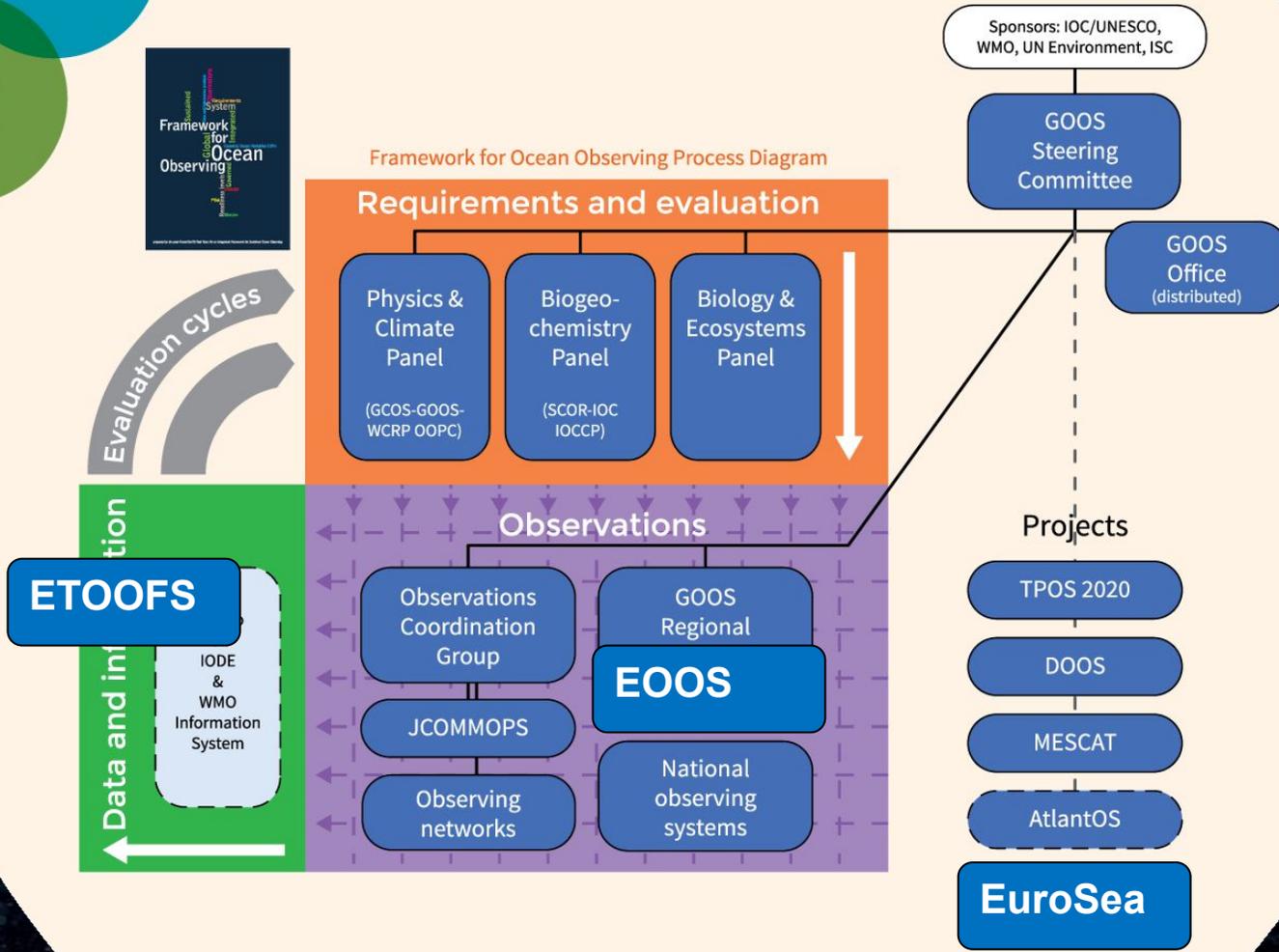


GOOS Today



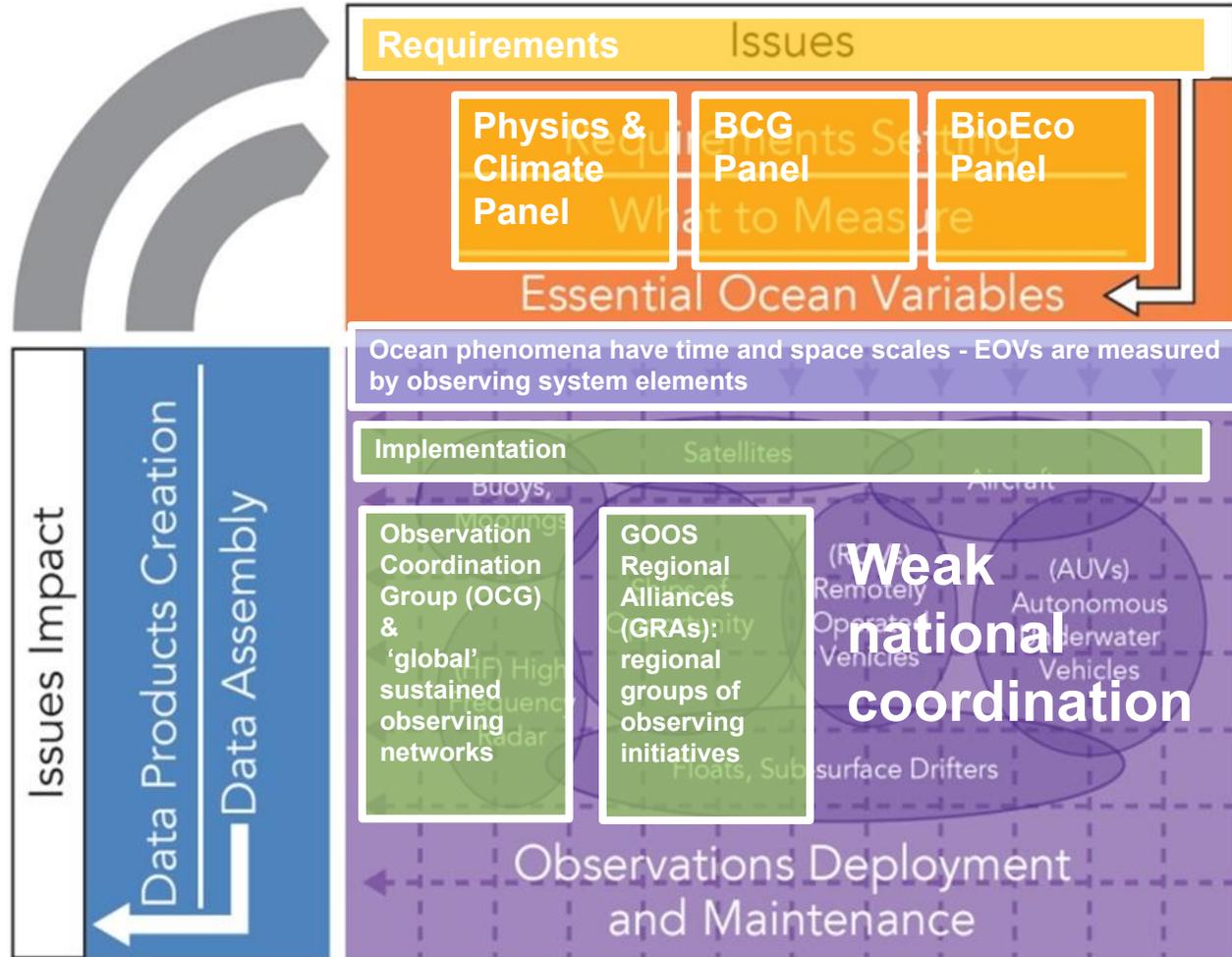
- Operational services
- Climate
- Ocean health

GOOS components



Strengthening EOOS and GOOS in a European context

Framework for Ocean Observing Process Diagram



Weak feedback loop

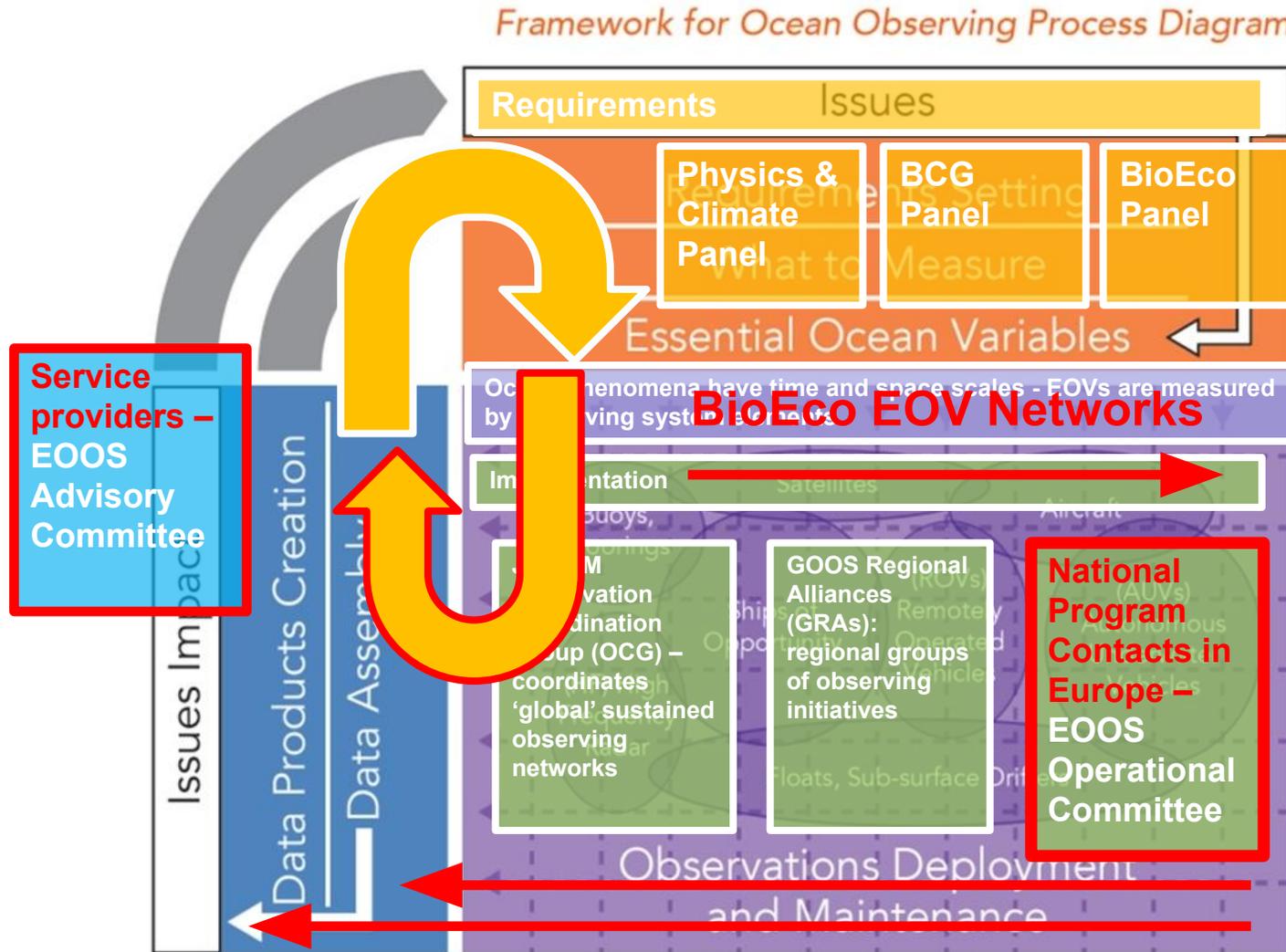
Human impacts need strengthening

Weak links to service providers & end users



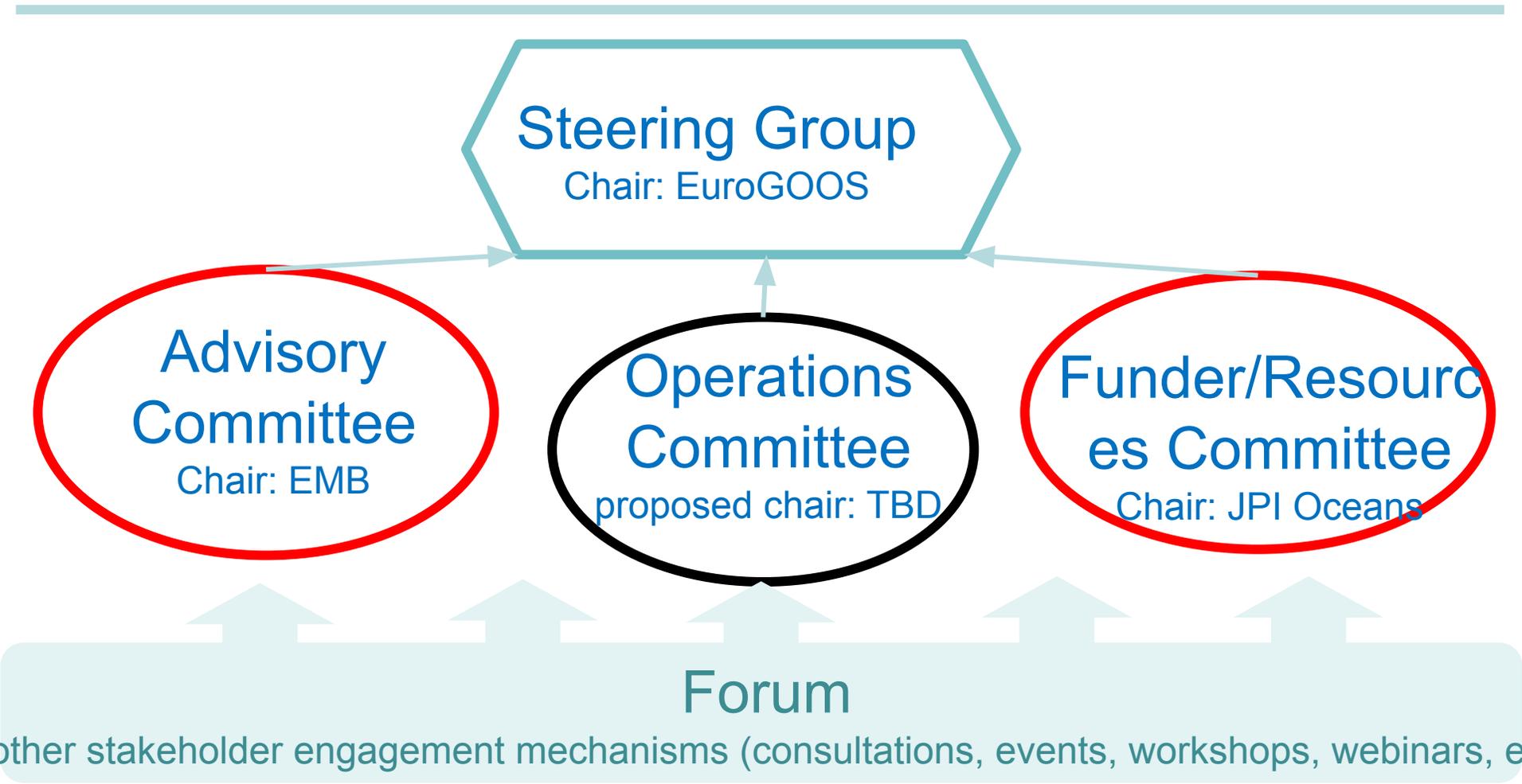
Strengthening EOOS and GOOS – WP1

“Governance and coordination of ocean observing and forecasting systems”



Ocean Best Practices
JCOMMOPS





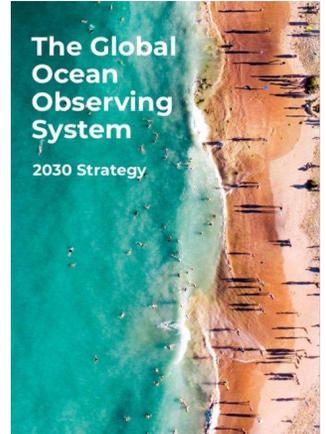
& other stakeholder engagement mechanisms (consultations, events, workshops, webinars, etc.)

EuroSea & 2030 Strategy

- **WP1: Coordination**
- **WP2: Impacts OSSEs**
- **WP3: Observing system**
- **WP4: Modelling**
- **WP 5, 6, 7 Demonstrator activities** focused on the three societal relevant areas of **operational services, ocean health and climate**
- **WP8 Outreach**

Strategic Objectives

- **SO1, SO2, SO5, SO6, SO7, SO10**
- **SO3**
- **SO6, SO7**
- **SO1, SO8**
- **SO1, SO4, SO8. Strengthening partnership for delivery across the 3 key societal impact areas**
- **SO2**



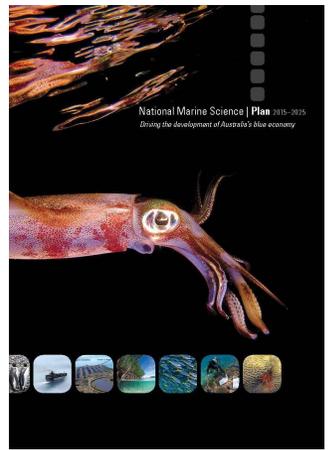
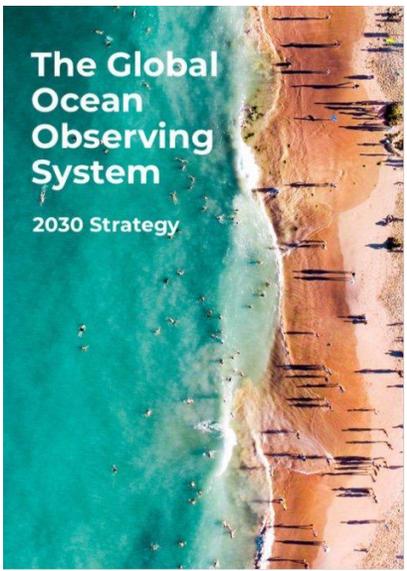
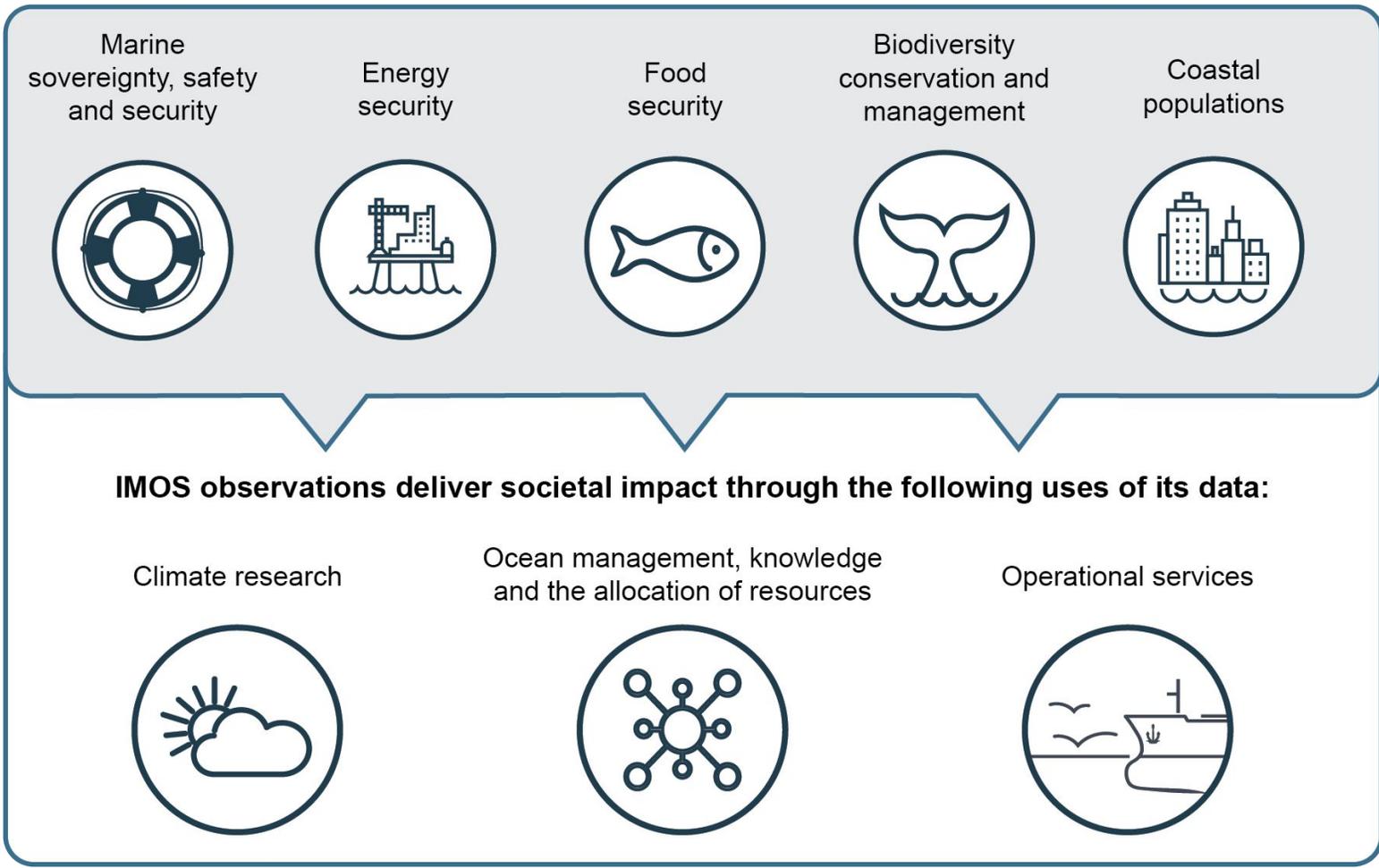


GOOS at work..

Integrated **Marine Observing System**

Planning for use and impact

Integration –
how do we
balance
needs,
capabilities
and
knowledge?

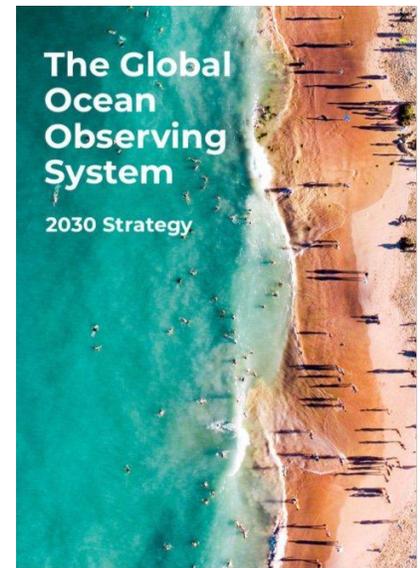
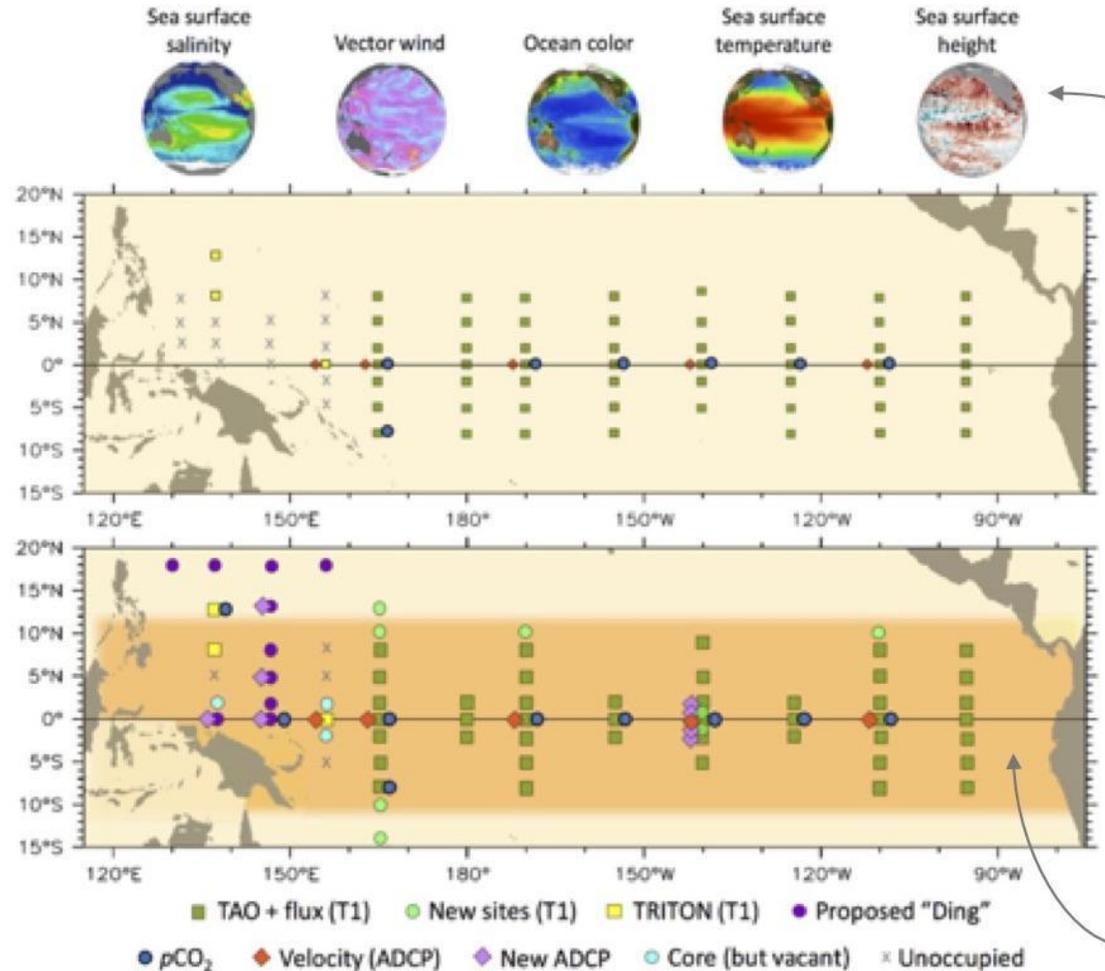


GOOS at work..



Design for use and impact

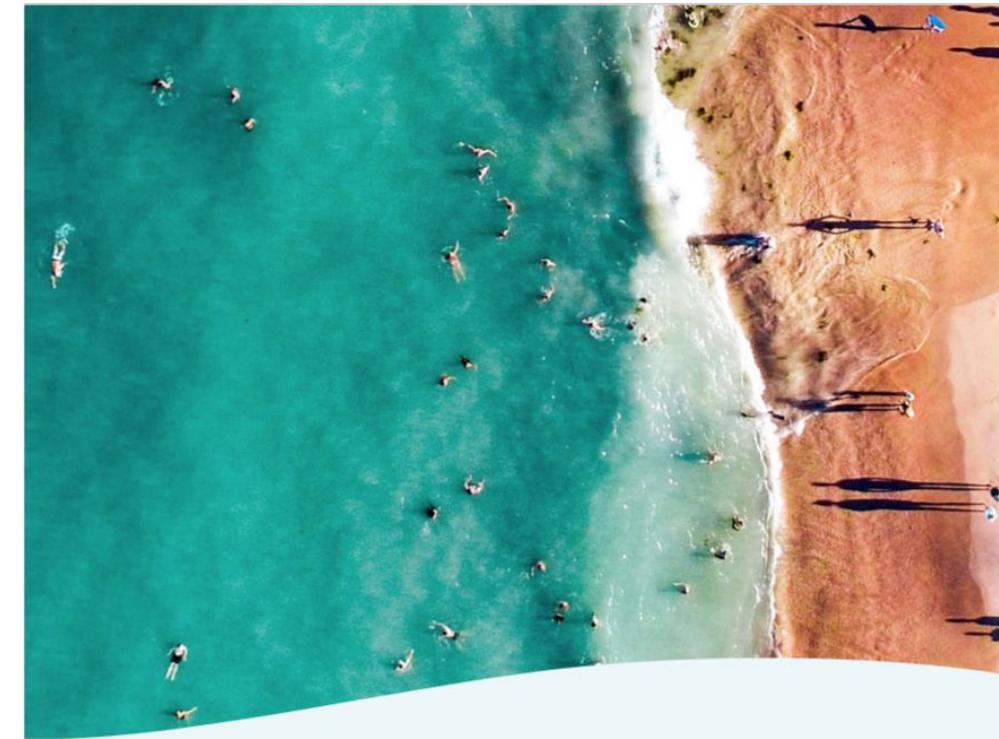
Basin scale approach, end user driven design, marrying innovation, feasibility and delivery – relies on basin partnerships



What next?

- ***GOOS 2030 Strategy
Implementation Roadmap***

- Detail on 11 Strategic Objectives
- Identify 'opportunities for step change'
- Synthesise key ideas OO19
- Open dialog with partners and community
- Call for proposals



**A Roadmap for the
Implementation of the
Global Ocean Observing
System 2030**

Release January 2020



What next? Summary



- **Implementation Roadmap** for the 2030 Strategy - an open planning process & call for proposals
- **GOOS Alignment** – what we are doing – aligning with the strategy across GOOS
- Propose **Decade observing projects**
- **Governance** work – SO11 - integral to the vision

Lets deliver
a great
project!

EuroSea



www.goosocean.org