

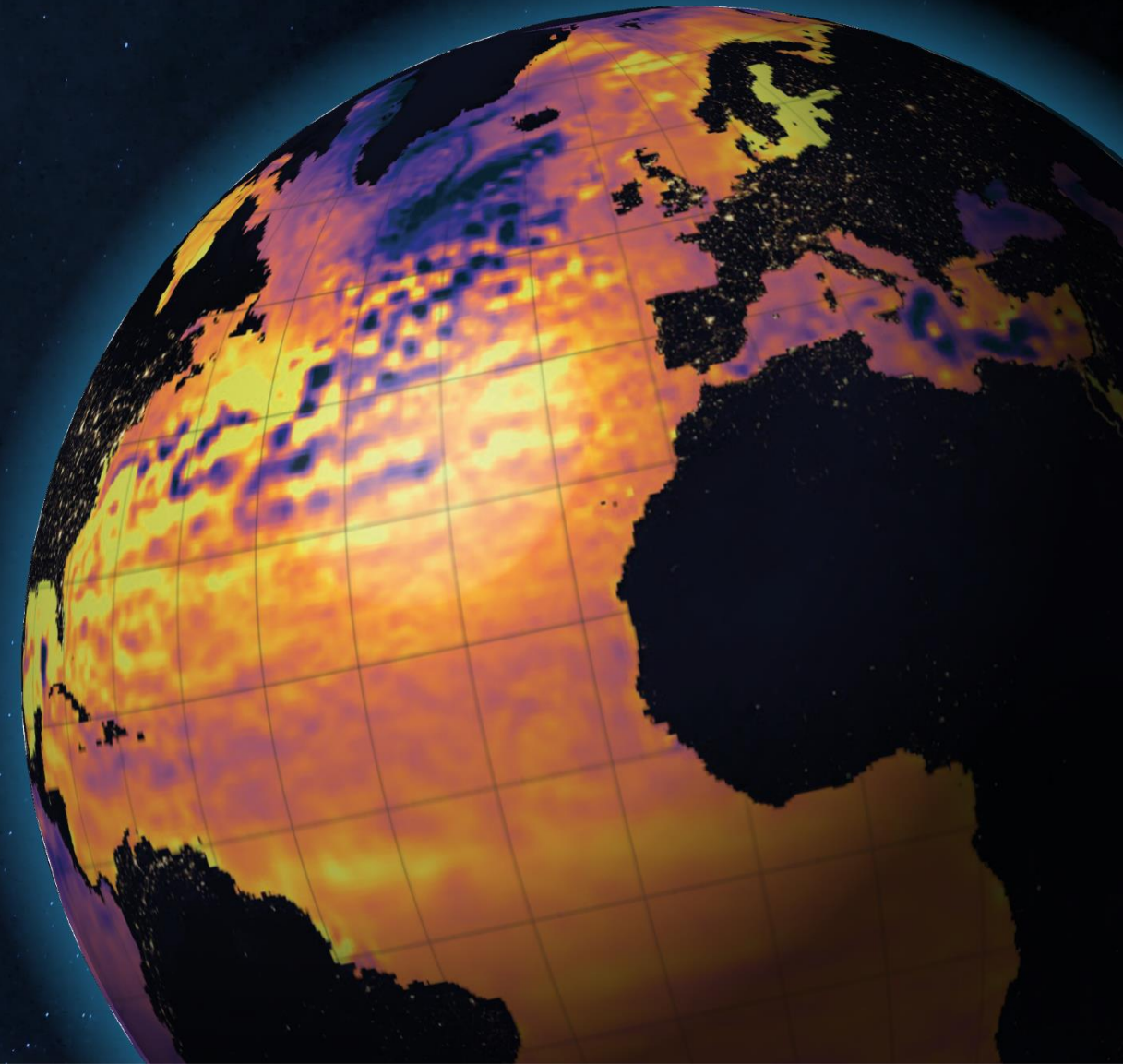


In partnership with



# UN Decade of Ocean Sciences for Sustainable Development - Pathways to 2030

*Julian Barbière,  
Head Marine Policy/ Decade Coordinator  
IOC/UNESCO*



# The Ocean Decade Framework

## Vision: the science we need for the ocean we want





2021 United Nations Decade  
2030 of Ocean Science  
for Sustainable Development

# THE OCEAN DECADE

in a snapshot

As of July 2024

## ENDORSED OCEAN DECADE ACTIONS

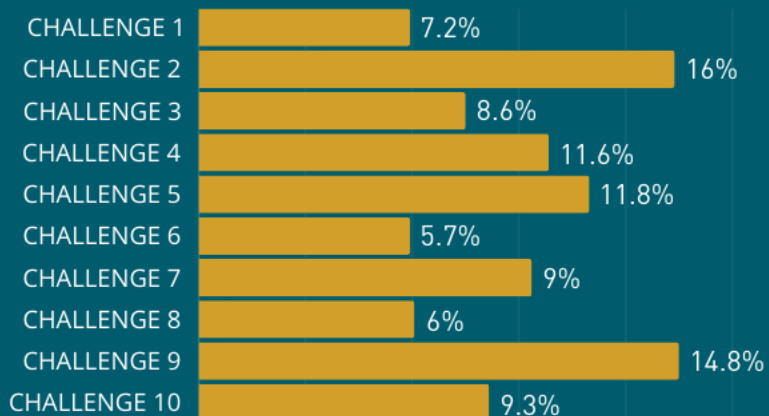


**56** PROGRAMMES **100** CONTRIBUTIONS  
**446** PROJECTS **802** ACTIVITIES



DECADE ACTIONS LED BY PARTNERS FROM **70** COUNTRIES

### ENDORSED ACTIONS PER CHALLENGE



## REGIONAL AND NATIONAL COORDINATION

**12**  
DECADE COLLABORATIVE CENTRES/ COORDINATION OFFICES

**16**  
DECADE IMPLEMENTING PARTNERS



**39**  
NATIONAL DECADE COMMITTEES

**6**  
REGIONAL TASKFORCES AND PROGRAMMES

**OCEANDECADE.ORG**

@UNOceandecade

@un-ocean-decade

## ENGAGEMENT AND OUTREACH

**7** INFORMAL WORKING GROUPS

**11** PATRONS AND **19** INSTITUTIONAL MEMBERS OF THE OCEAN DECADE ALLIANCE



OVER **20** MEMBERS OF THE FOUNDATIONS DIALOGUE



**8900** MEMBERS FROM **173** COUNTRIES ON THE OCEAN DECADE NETWORK



**1.5+ MILLION** REACH

# 2024 OCEAN DECADE CONFERENCE

*Take Stock – Set Priorities – Catalyze Action to 2030*



- 2,630 in-person attendees from **124 countries**
- > 3,000 online viewers
- 165 Satellite Events



## 2024 OCEAN DECADE CONFERENCE BARCELONA STATEMENT

12 April 2024

Barcelona, Spain

## 2024 UN OCEAN DECADE CONFERENCE

*Delivering the science we need for the ocean we want*

10-12 April 2024

Barcelona, Spain



10 x  
Vision 2030  
White Paper

## Ocean Decade Vision 2030 Outcomes Report



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



1. SCIENCE & KNOWLEDGE  
PRIORITIES

2. CROSS-CUTTING /  
ENABLING ENVIRONMENT  
PRIORITIES

3. ANNOUNCEMENTS &  
COMMITMENTS

# VISION 2030 WHITE PAPERS



Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 1:**  
Understand and beat  
marine pollution

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 2:**  
Protect and restore  
ecosystems and biodiversity

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 3:**  
Sustainably nourish  
the global population

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 4:**  
Develop a sustainable and  
equitable ocean economy

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 5:**  
Unlock ocean-based  
solutions to climate change

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 6:**  
Increase community resilience  
to ocean hazards

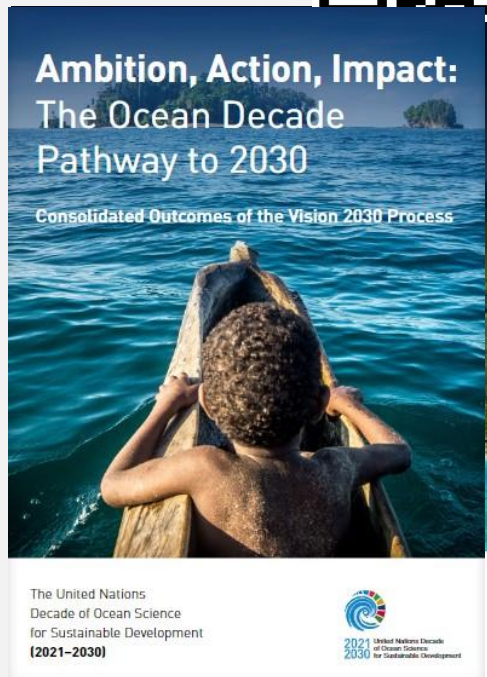
Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 7:**  
Sustainably Expand the Global  
Ocean Observing System

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 8:**  
Create a digital representation  
of the ocean

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 9:**  
Skills, knowledge, technology  
and participatory decision-  
making for all

Ocean Decade  
**Vision 2030**  
White Papers  
**Challenge 10:**  
Restoring society's relationship  
with the ocean

10 White Papers  
authored by 10 expert  
Working Groups

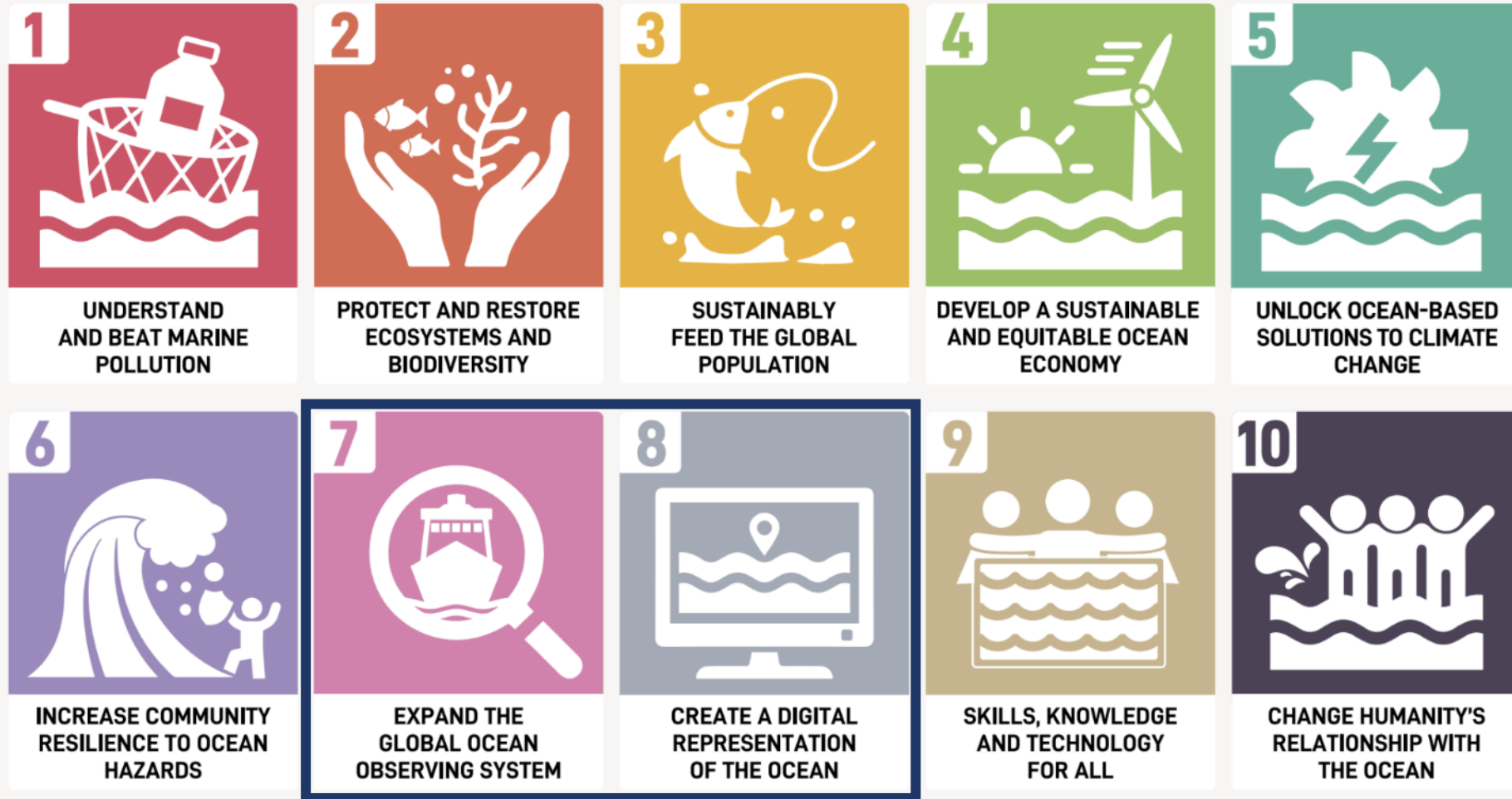


Report drawing on the  
WPs and including  
additional analysis  
authored by the DCU

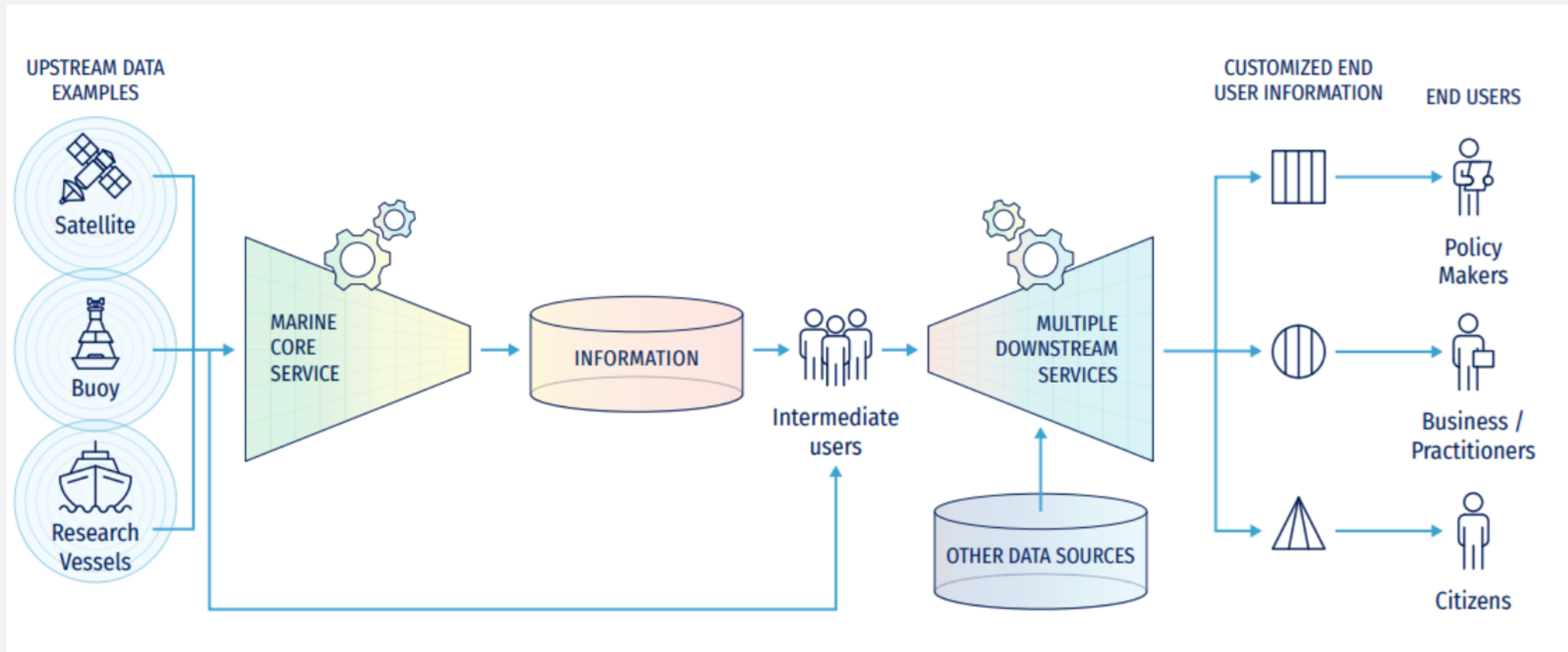
- ### Vision 2030 Key Elements
- Refinement of Challenges
  - Priorities by Challenges
  - Priorities across Challenges
  - Cross-Cutting Issues

**2024 OCEAN DECADE  
CONFERENCE**  
**BARCELONA STATEMENT**  
12 April 2024  
Barcelona, Spain

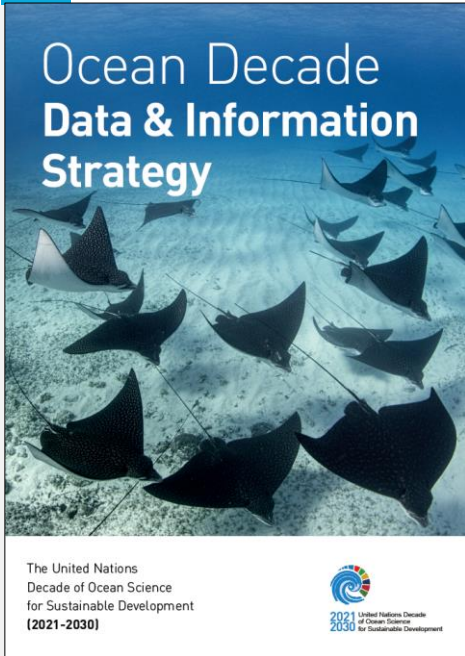
# Data and Information are cornerstones of the Decade's success



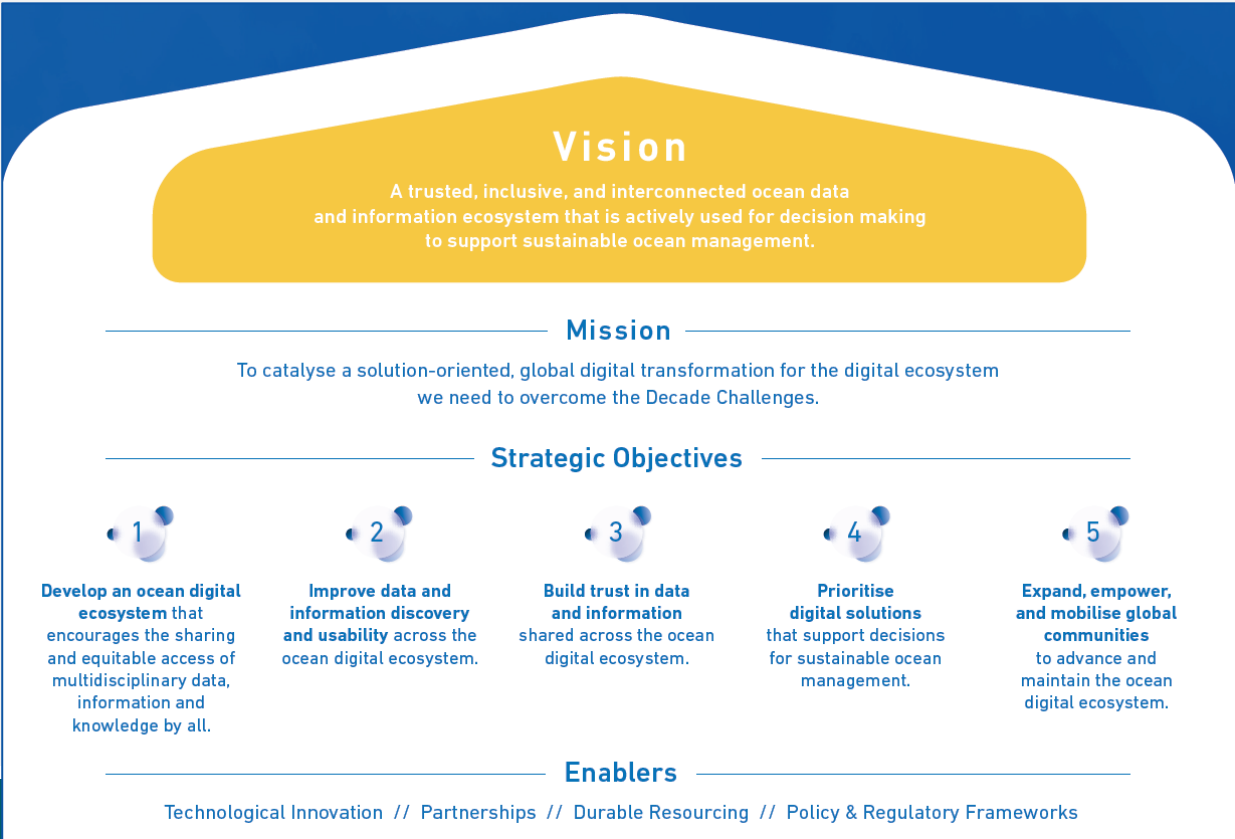
# Key Steps in the Ocean Data Value Chain



# Towards a globally distributed, trusted, inclusive, and interconnected ocean data and information ecosystem



## Data Coordination Group *Develop a data & information strategy*

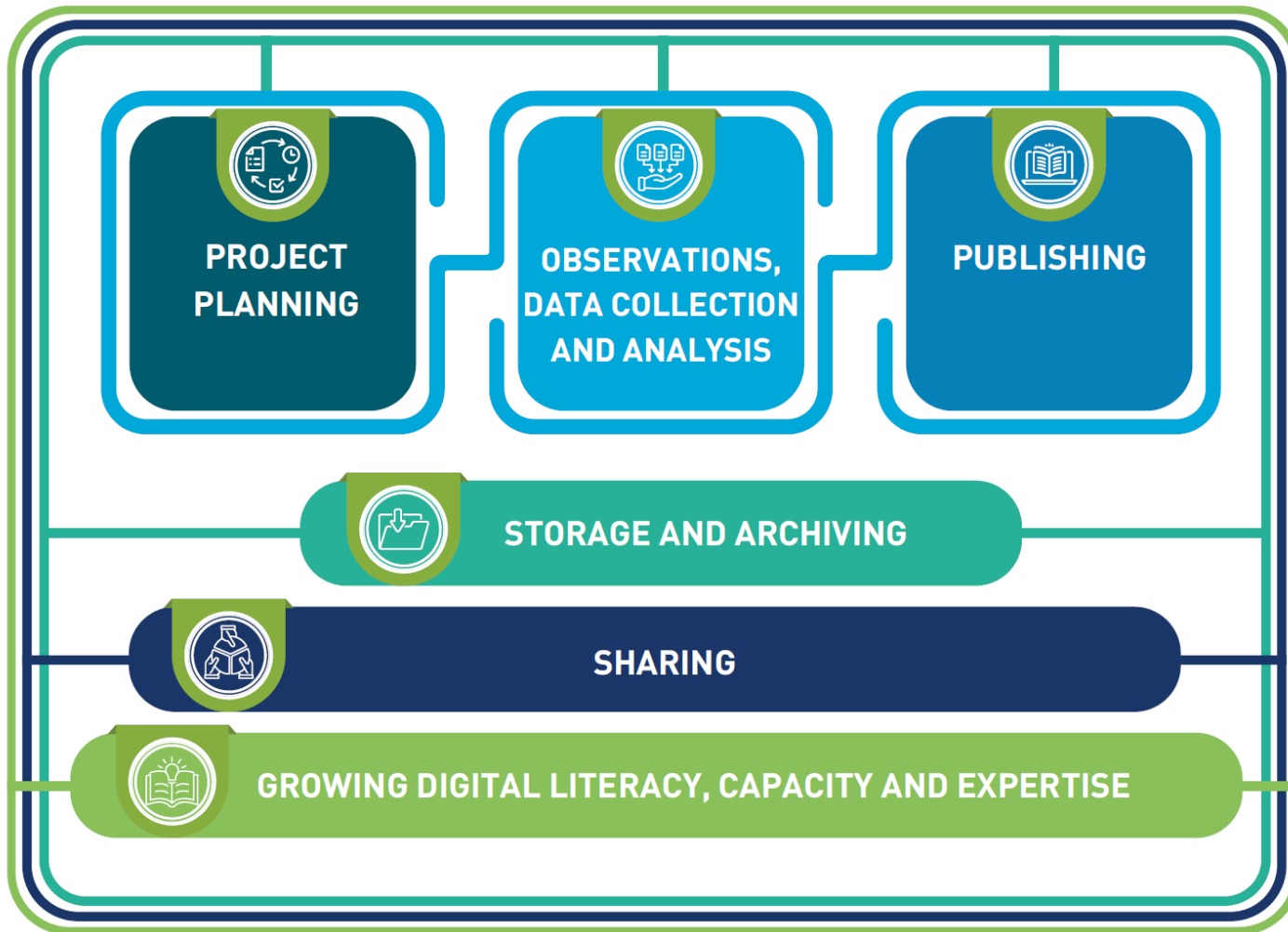


Download here:





# Strategy Implementation – required actions per project phase

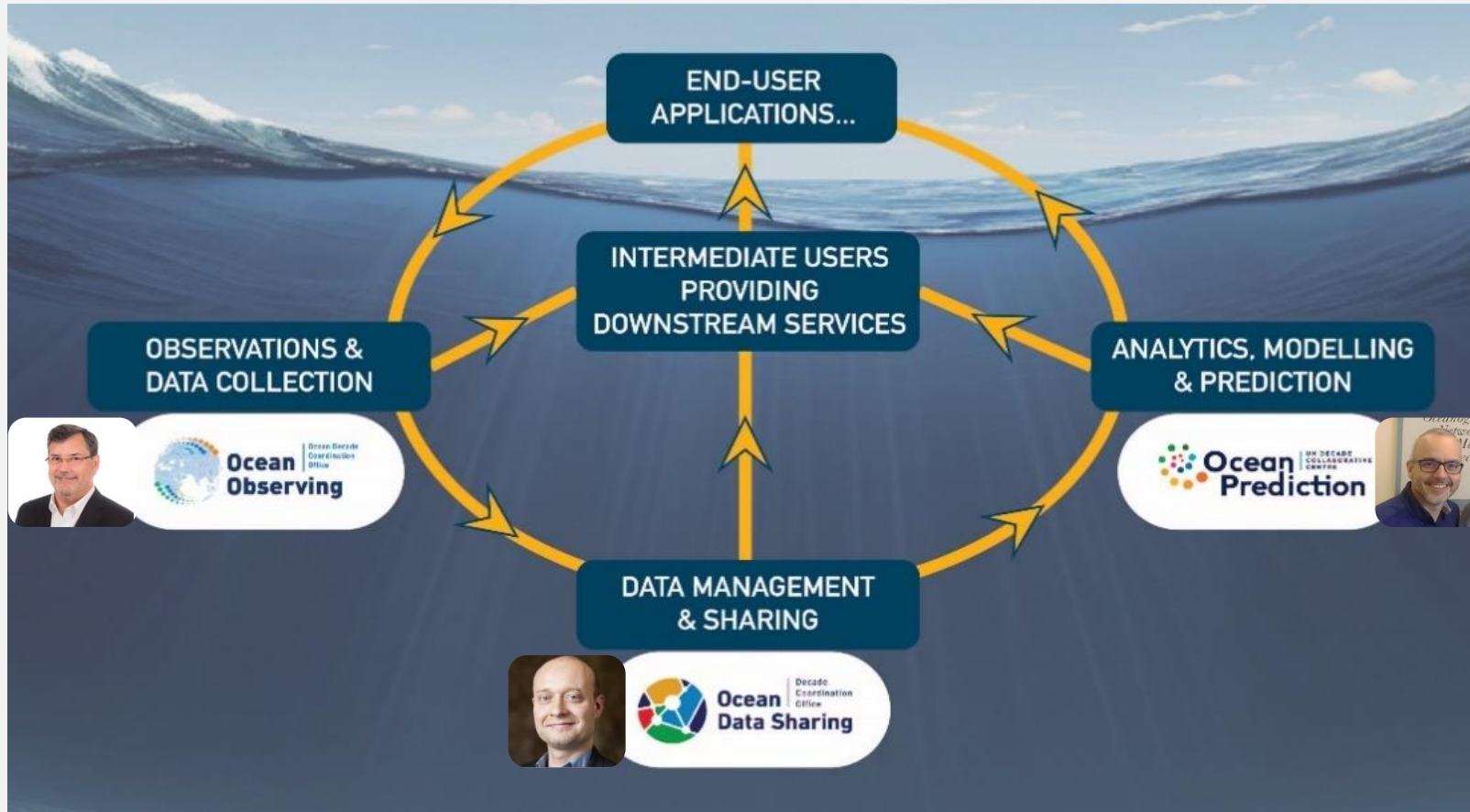


## PROJECT PLANNING

- 1 Include** people in your project team who understand and can implement each data-centric task planned.
- 2 Co-design** project workflows and outputs with decision makers, stakeholders, and rights holders.
- 3 Write or modify** your data management and sharing plan to be fit for the Ocean Decade.
- 4 Plan** for potential restrictions on data and information usage.
- 5 Properly evaluate**, budget for and secure resourcing/funding for data management.
- 6 Obtain** accreditation/certification, from a qualified independent 3rd party that follows FAIR principles.

# Improving the different steps of the Ocean Data Value Chain

A multi-actor Decade endeavour



A collection of logos for various Decade initiatives, including:

- ForeSea** (Ocean Prediction Capacity of the Future)
- DITTO** (Digital Twins of the Ocean)
- Ocean best practices**
- CoastPredict** (with The Global Ocean Observing System)
- UN environment programme**
- GEMS OCEAN**
- DIPs**

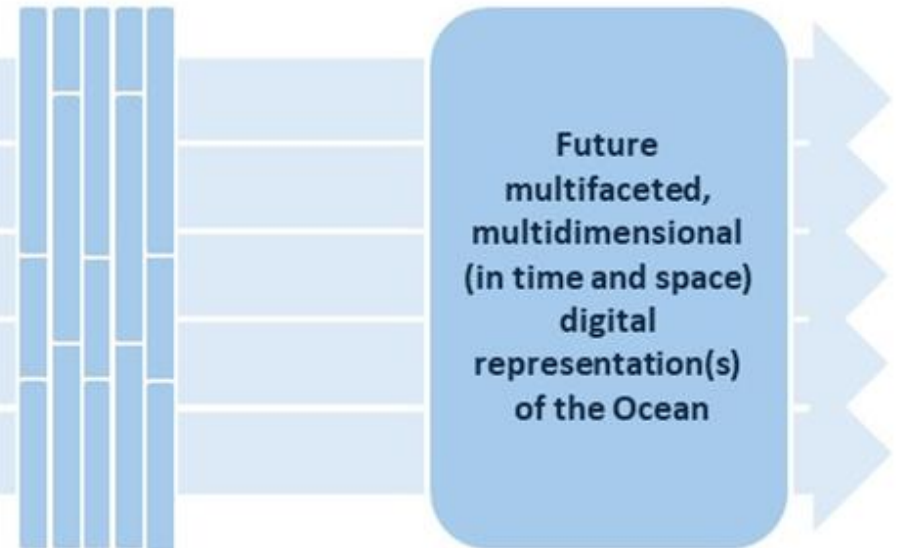
# Delivering the Strategic Ambition – Challenge 8



## Creating The Enabling Environment

Tools & services as required elements of an enabling environment

- Ocean Discovery & Data Access Service
- Ocean Forecasting Structure
- Digital Atlas of the Ocean
- Marine Knowledge Exchange Mechanism
- Capacity Development & Training



≥ 10 global priority base layers  
≥ 10 local case studies

Vision 2030 White Paper

Challenge 8  
Create a digital representation of the ocean

Version 1.0 - April 2024



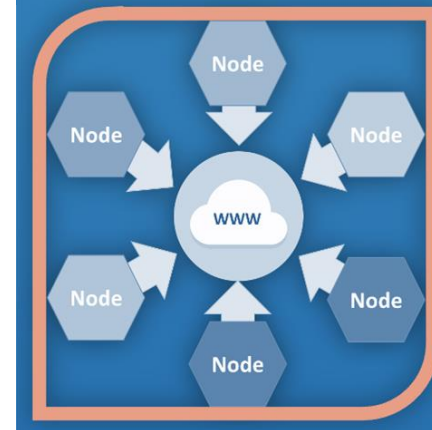
Ensure **interoperability** and **compatibility** of proposed data and information-sharing systems & services with other core ocean knowledge systems and/or decision support tools/applications existing or currently under development – **connecting and building on what exists already.**

# OceanData2030 - An Ocean Data and Information System supporting the UN Decade of Ocean Science for Sustainable development

- Development of an **open-source data and information system** that will link existing ocean information systems around the world, and enable more efficient discovery of data, information and knowledge products.
- Led by IODE of the Intergovernmental Oceanographic Commission (IOC).
- The **Ocean Data and Information System (ODIS)** will be a central element of the OceanData2030 Programme.
- Hosting Ocean Decade projects:
  - Marine Regions / From global gazetteer to global community*
  - Portuguese National Oceanographic Data Centre*
  - World Ocean Database Cloud*

Bibliographic infobases (catalogues and repositories)	Code lists and vocabularies	Data catalogues	Data products (model output, forecasting, climatologies...)
Data systems/portals (allowing downloading of datasets)	Education and training materials	Information on platforms (buoys, sensors, floats, gliders, satellites...)	Information on experts and organizations
Information on projects	Information on vessels	Journals (open source and commercial)	Manuals, guidelines, standards and best practices
Maps and atlases (geospatial products)	Multimedia content	Real-time observing systems	Software (ocean related)

## Oceans (ODIS)



# FROM AMBITION TO ACTION



Translation of global actions to regional and national priorities and strategies & strengthened role for NDCs, DCC/DCOS

New co-designed Decade Actions through tailored Calls for Decade Actions & proactive p/ships

Ocean Decade **“Flagship Initiatives”** to create p/ships to inform the global agenda on key issues

- Investment in ocean science
- Seabed mapping & data sharing
- Coastal cities resilience
- Marine pollution
- Sustainable Ocean Planning

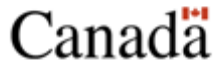
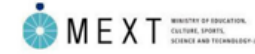
Partnerships to facilitate collective action & investment in the lead-up to 2025 United Nations Ocean Conference & beyond



United Nations



2025 UN OCEAN CONFERENCE  
June 2025, France



Thank you



सत्यमेव जयते



And many others that have contributed in-kind support...