

OCEAN DATA & INFORMATION MANAGEMENT & SHARING IN THE OCEAN DECADE

1. THE OCEAN DECADE & THE IMPORTANCE OF DATA
2. THE DECADE'S DATA & INFORMATION STRATEGY & PLAN
3. THE DECADE COORDINATION OFFICE FOR OCEAN DATA SHARING
4. VISION 2030 FOR CHALLENGE 8 — CREATING A DIGITAL REPRESENTATION OF THE OCEAN
5. DATA AND INFORMATION MANAGEMENT AND SHARING IN THE DECADE

2024 06 18 WEBINAR - DATA FOR THE UN OCEAN DECADE — A EUROPEAN FOCUS

JAN-BART CALEWAERT, LEAD MANAGER DCO-OCEAN DATA SHARING, IOC-UNESCO

The Ocean Decade Framework

Vision: the science we need for the ocean we want

Implementation Plan

14
LIFE
BELOW WATER

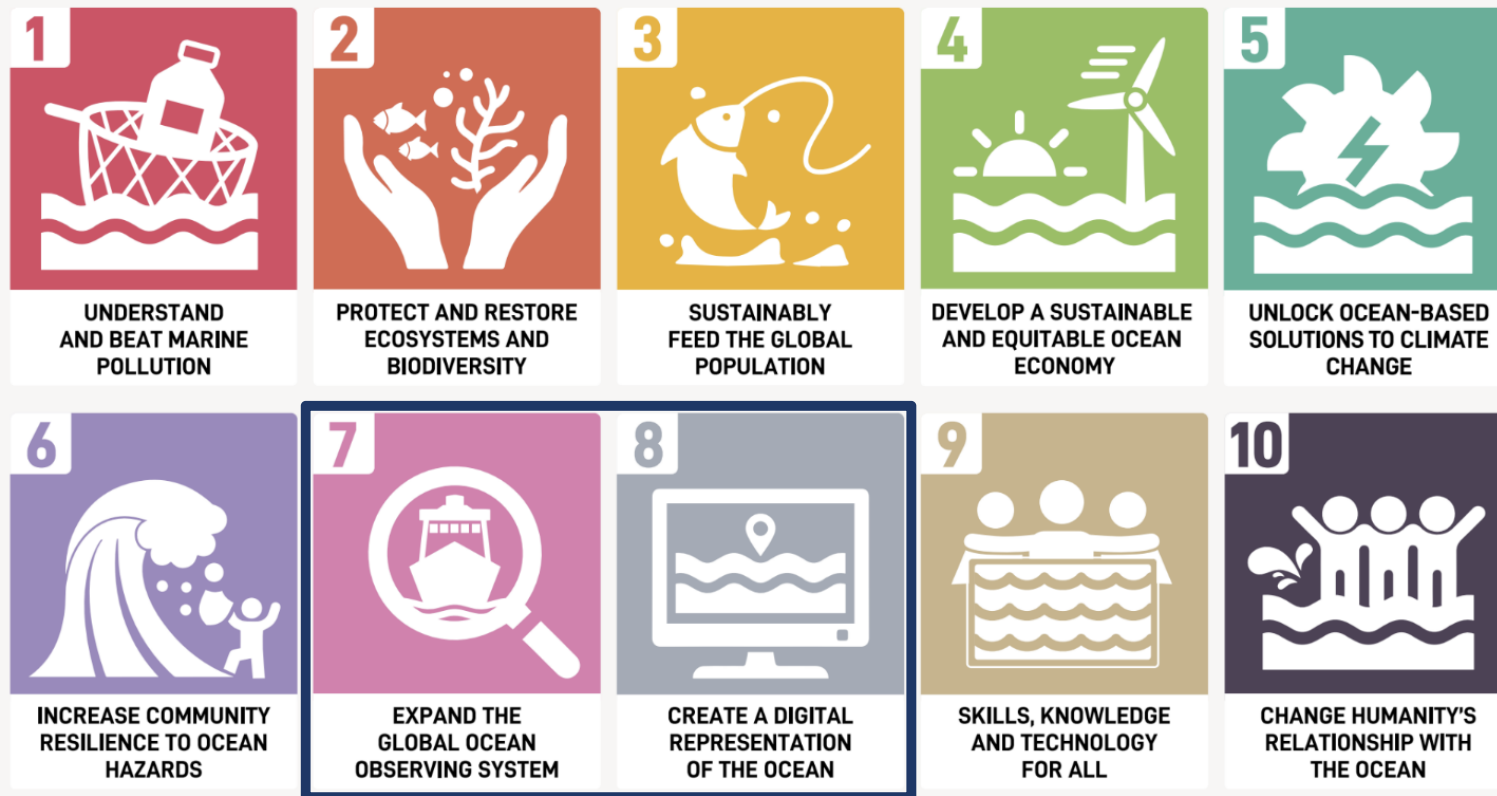


The United Nations
Decade of Ocean Science
for Sustainable Development
(2021-2030)

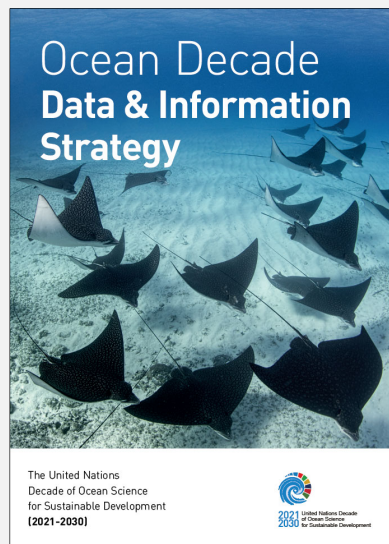


2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Data and Information are cornerstones of the Decade's success



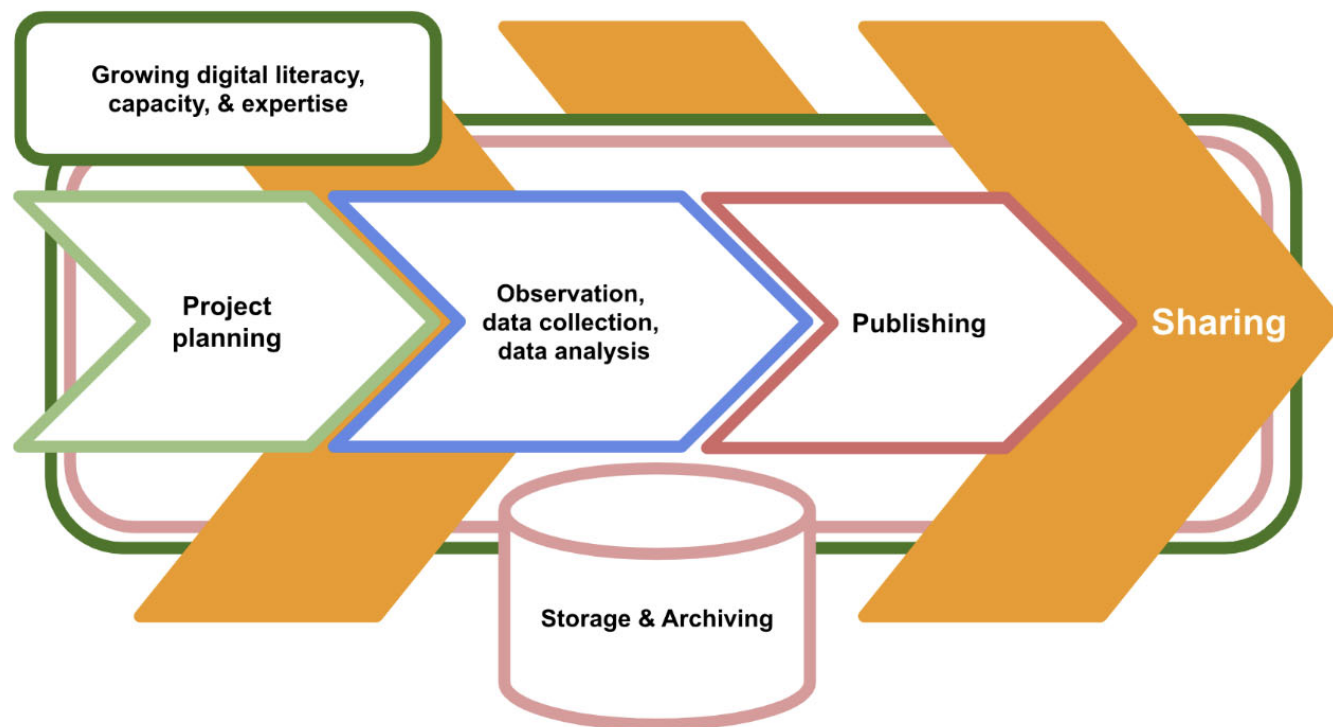
Decade Data and Information Strategy: *Towards a globally distributed, trusted, inclusive, and interconnected ocean data and information ecosystem*



Download here:



Strategy implementation plan – How is the document organised?

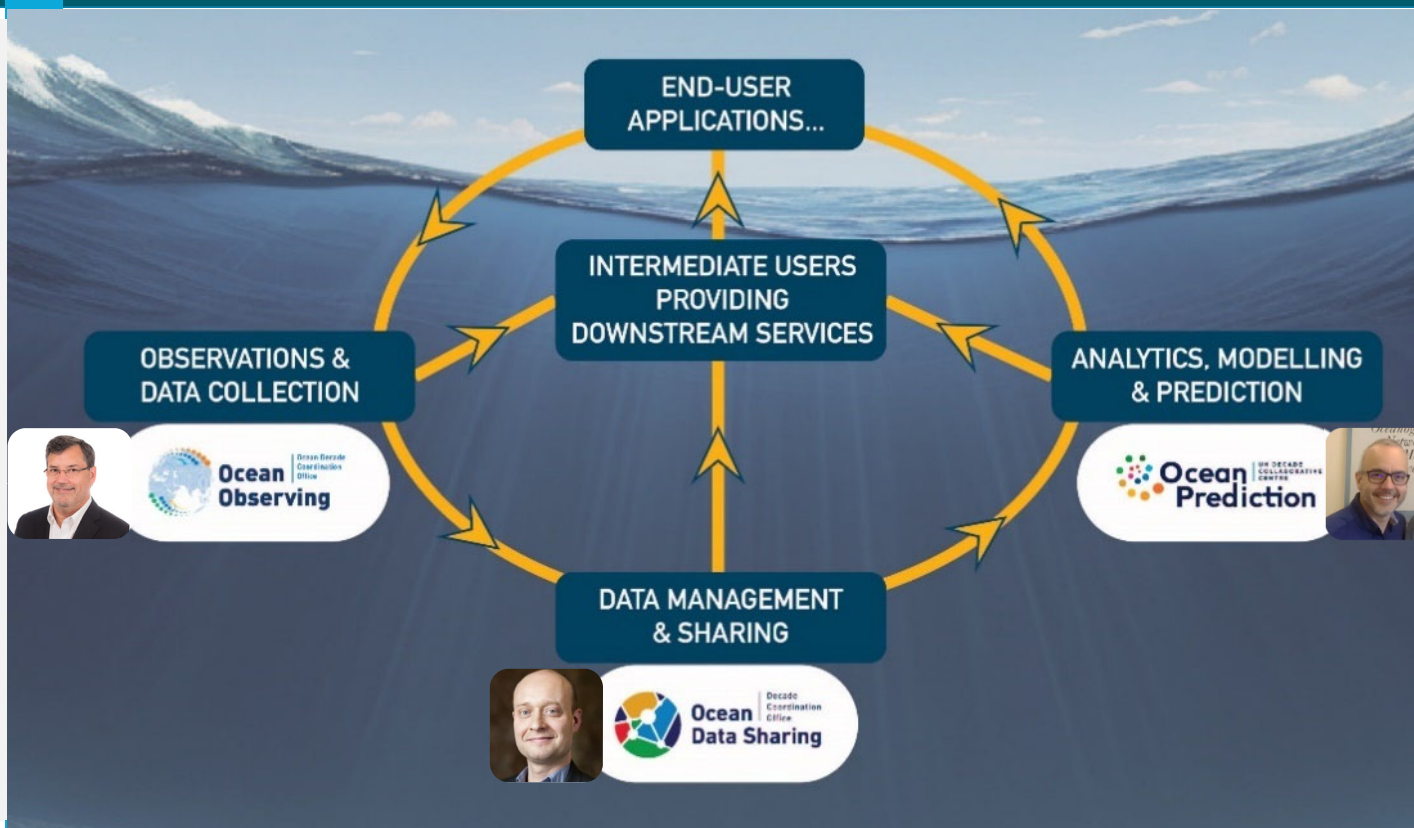


Sign up here to participate in the review process of the implementation plan :



<https://www.surveymonkey.com/r/PMF3Q7Z>

Key Components of a globally distributed, trusted, inclusive, and interconnected ocean data and information ecosystem



- The main aim of the Decade Coordination Office (DCO) for Ocean Data Sharing is to **establish, promote and coordinate** the data management and sharing component of the digital ecosystem needed for the Ocean Decade to be successful.

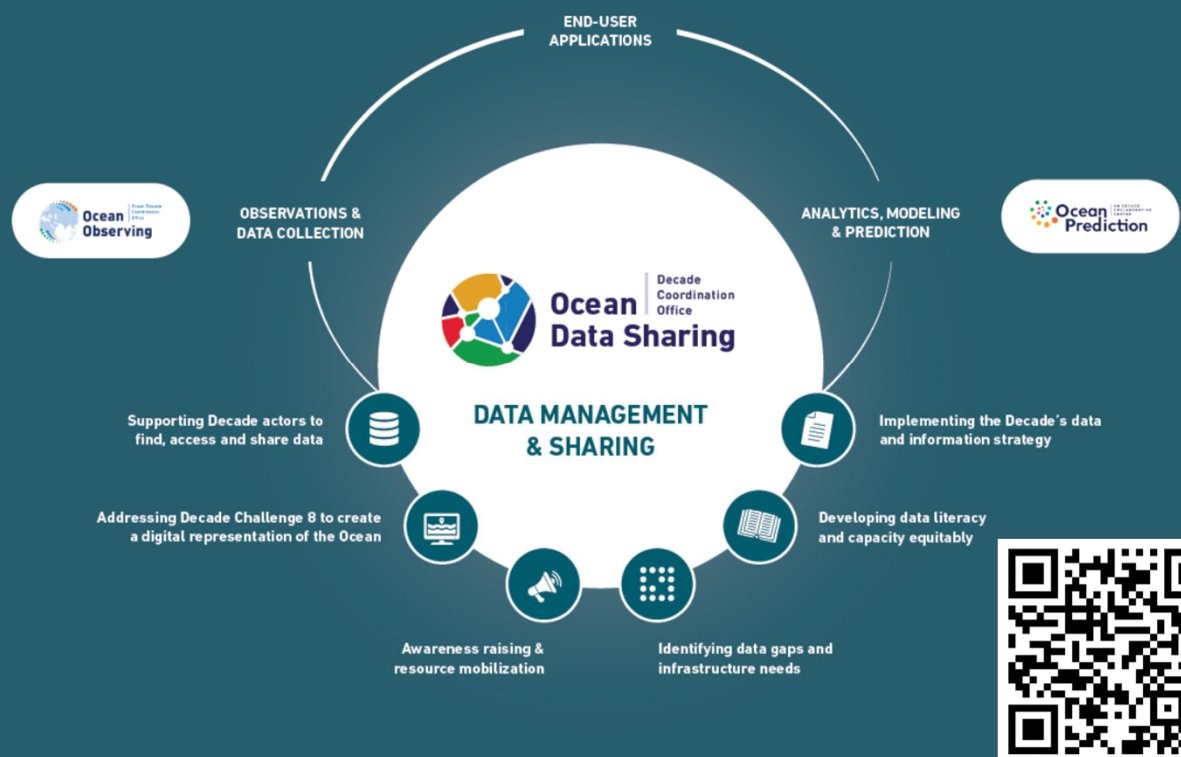


DCO for Ocean Data Sharing

Building understanding and capacity to transform ocean data sharing in the Decade



- Help implement the Decade's Data and Information Strategy
- Assist Decade Actions with data sharing guidance to adhere to **FAIR and CARE** principles.
- Facilitate and support efforts to **address Challenge 8 – Creating a digital representation of the Ocean**
- Promote data literacy and capacity equitably
- Help identify and address **data gaps and infrastructure needs**



- *Data Resource toolkit*
- *Online Data Help Desk*

<https://oceandatasharing-dco.org/>

UN Ocean Decade Vision 2030 Working Group 8

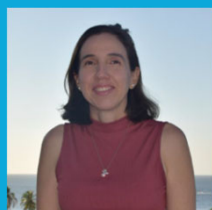
Challenge 8: Create a digital representation of the Ocean



THE CO-CHAIRS



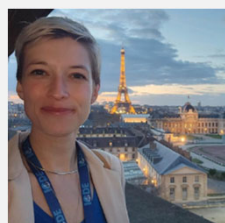
Jan-Bart
Calewaert



Paula Cristina
Sierra-Correa

*Through multi-stakeholder collaboration, develop a **comprehensive digital representation of the ocean**, including a **dynamic ocean map**, which provides free and open access to explore, discover and visualize data and information on the past, current, and future state of the ocean.*

THE EXPERT MEMBERS



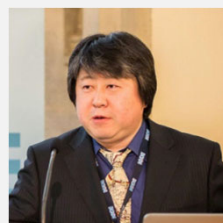
Ann-Christine
Zinkann



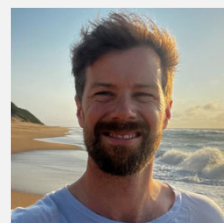
Dick M.A.
Schaap



Gerben J.
de Boer



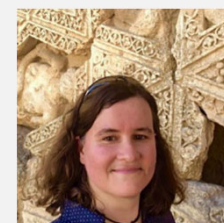
Toru
Suzuki



Gustav
Kågesten



Iain
Shepherd



Tanya
Haddad



Véronique
Jégat



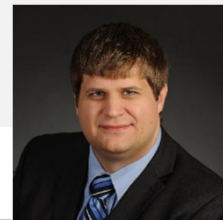
Kate
Crosman



Marc
Taconet



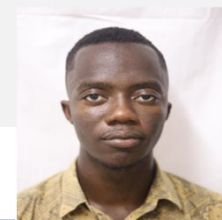
Martin
Visbeck



Mike
Smit



Ren
Xingyuan



Peter Teye
Busumprah



Steve
Hall



Alain
Arnaud

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

Future
multifaceted,
multidimensional
(in time and space)
digital
representation(s)
of the Ocean

≥ 10 global priority base layers
≥ 10 local case studies

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**.

Vision 2030
White Paper

Challenge 8

Create a digital representation of the ocean

Version 1.0 - April 2024



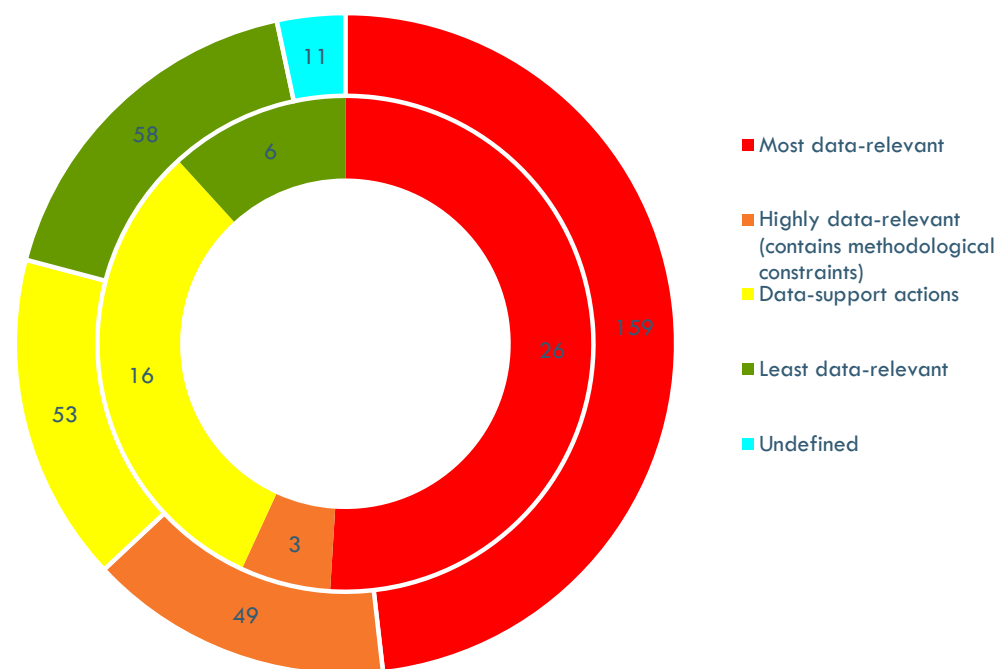
DATA-RELIANT MAPPING OF ENDORSED DECADE ACTIONS

MAPPING RESULTS

The results were summarised into the table, visualised in a pie chart:

	Programme	Project	Total
Most data-relevant	26	159	185
Highly data-relevant (contains methodological constraints)	3	49	52
Data-support actions	16	53	69
Least data-relevant	6	58	64
Undefined	-	11	11
	51	330	381

Total number of programmes and projects being identified into each of the 5 data-relevant categories, out of 51 programmes (inner ring) and 330 projects (outer ring)



Ocean
Data Sharing

Decade
Coordination
Office



IODE
International
Oceanographic
Data and Information
Exchange

HOW YOU FIND & USE YOUR DATA?



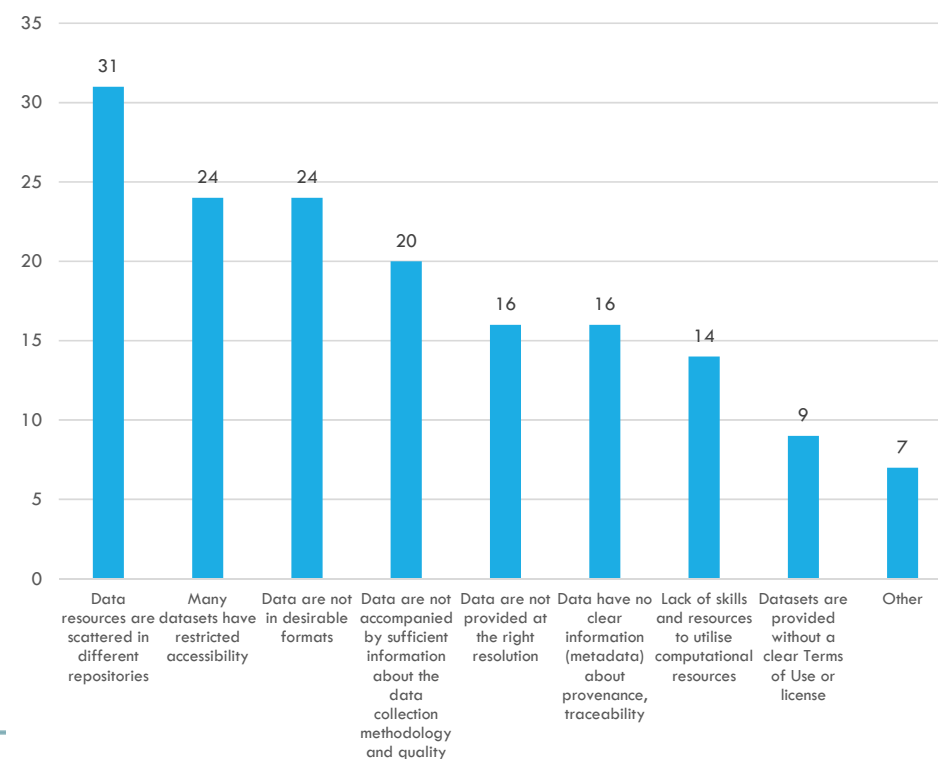
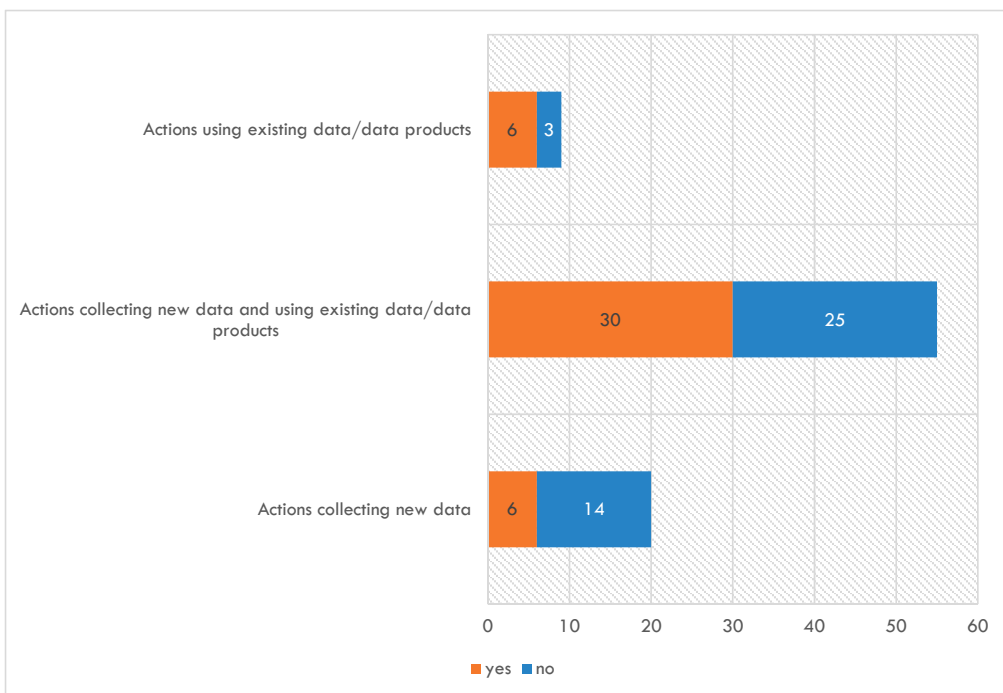
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Actions face difficulty finding and/or using the data and/or data products they need

Difficulties actions have in finding and using data and data products



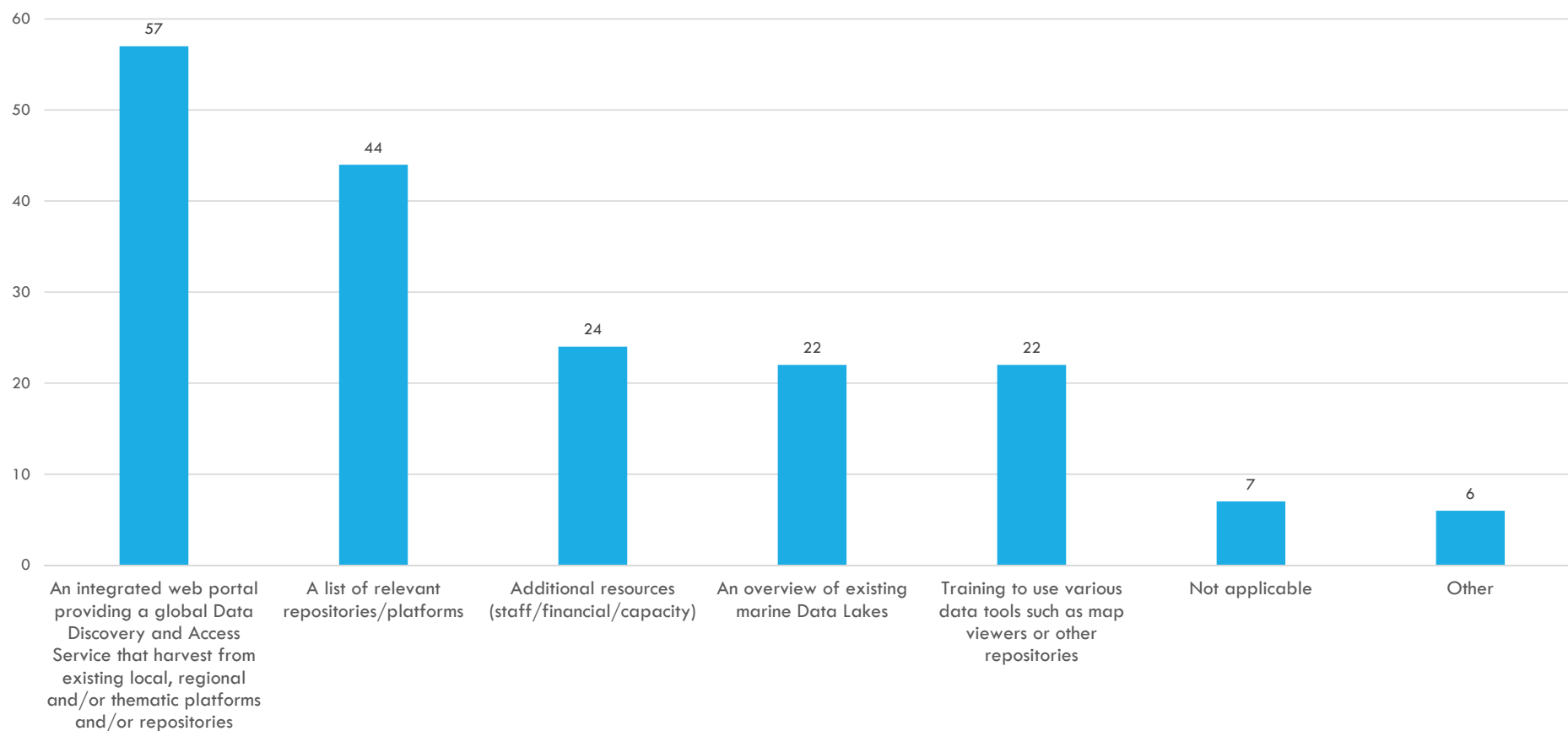
HOW YOU FIND & USE YOUR DATA?



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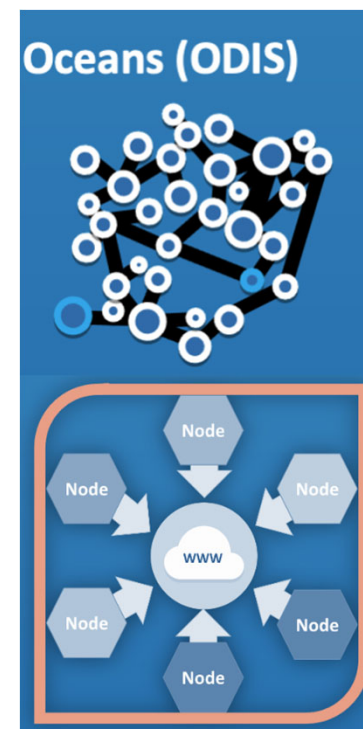
What would be helpful for finding the data/data products needed



OceanData2030

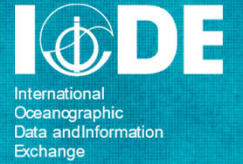
- The Decade programme 'An Ocean Data and Information System supporting the UN Decade of Ocean Science for Sustainable development' (OCEANDATA 2030) is led by IODE of the Intergovernmental Oceanographic Commission (IOC).
- Development of an **open-source data and information system** that will link existing ocean information systems around the world, and enable more efficient discovery of data, information and knowledge products.
- The **Ocean Data and Information System (ODIS)** and **Ocean InfoHub** are central elements 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, climate logs,...)
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)





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THANK YOU