



# The Ocean Decade Data & Information Strategy Implementation Plan

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# The Ocean Decade Data & Information Strategy

1

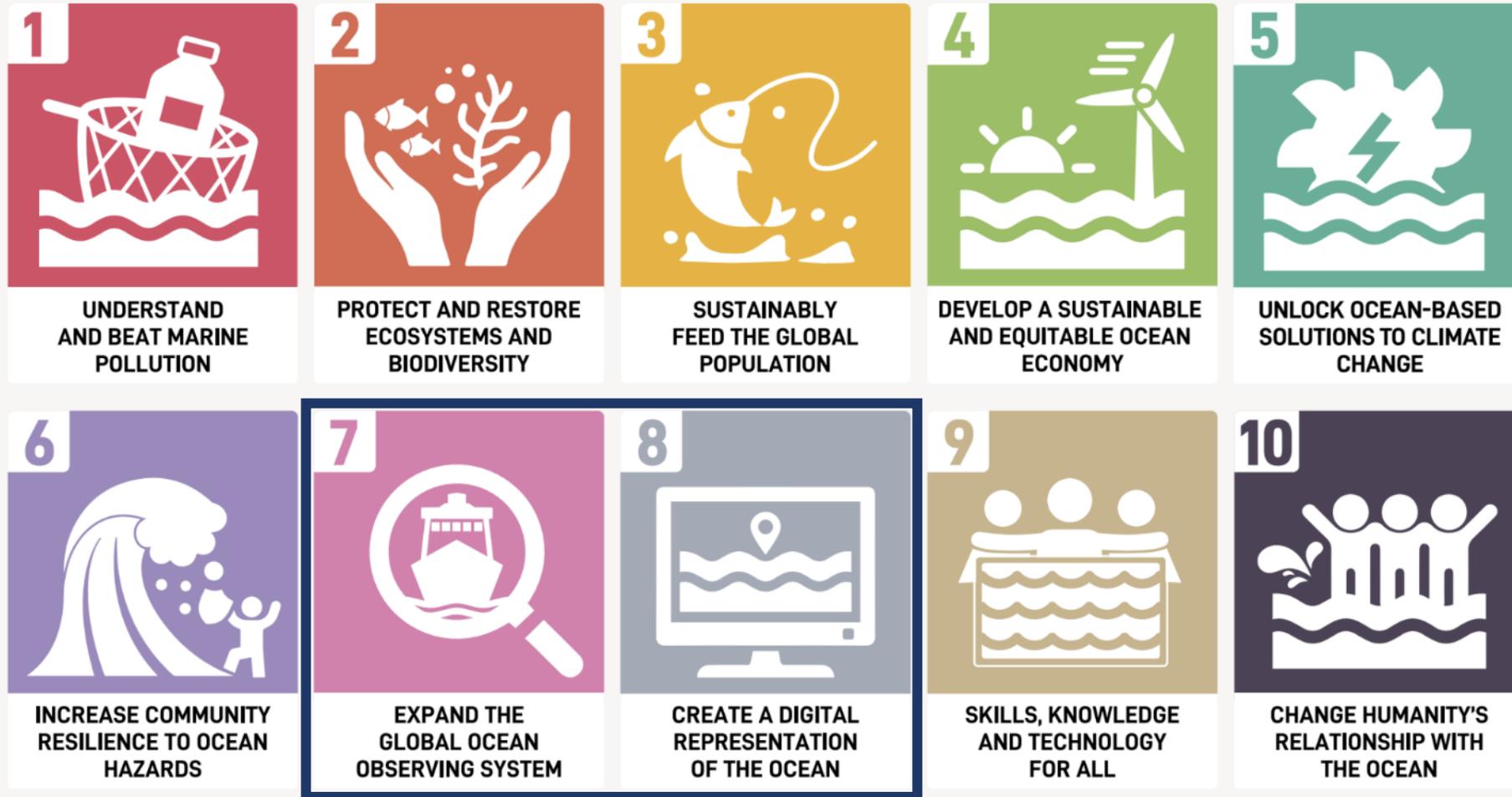


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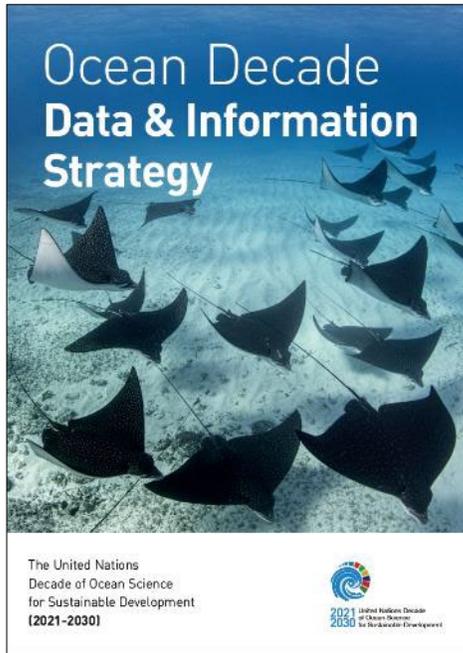


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# Data and Information are cornerstones of the Decade's success



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



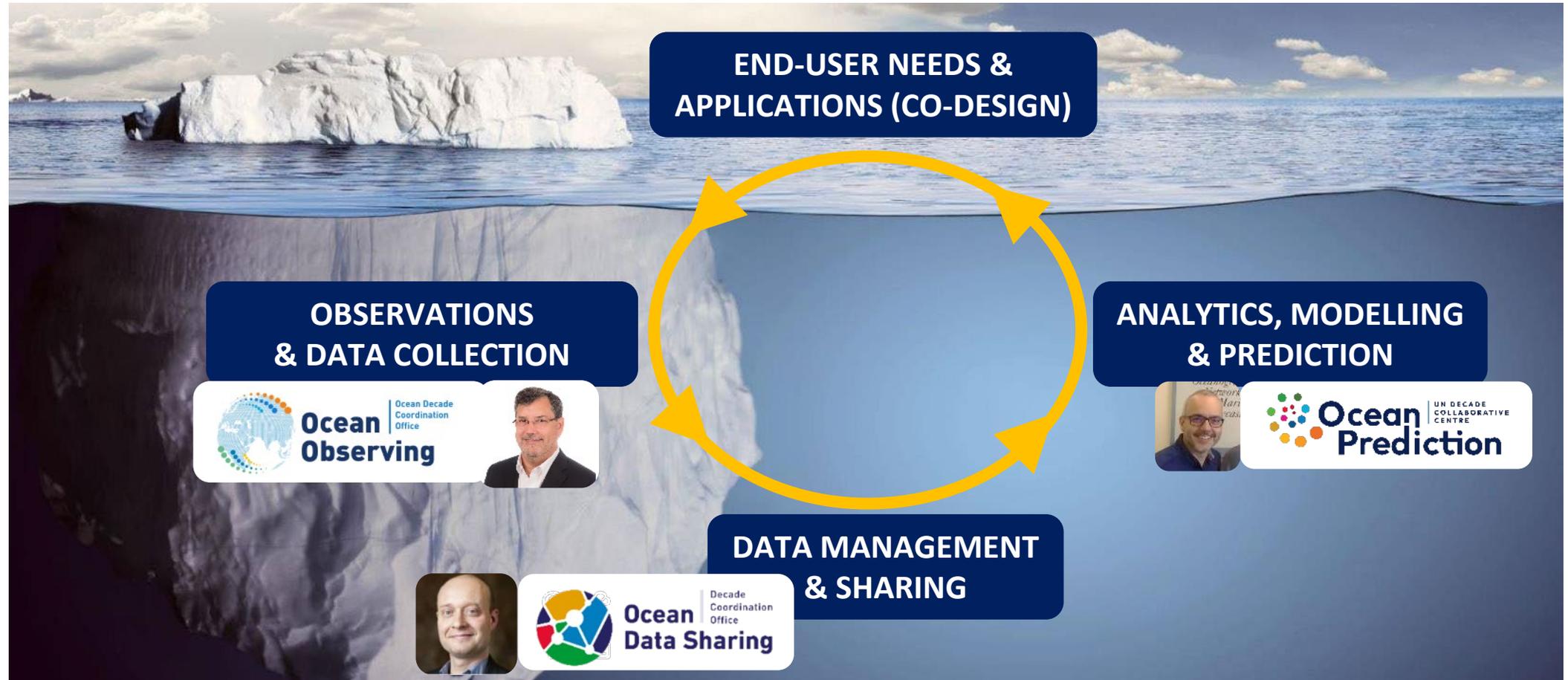
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## Five Strategic objectives

1. Establish a globally distributed ocean digital ecosystem allowing sharing and equitable access of multidisciplinary data, information and knowledge by all
2. Improve data and information discovery and usability
3. Build trust in data and information shared across the digital ecosystem
4. Prioritize digital solutions that support decisions for sustainable ocean management
5. Expand, empower, and mobilize global communities to advance and maintain the ocean digital ecosystem

# Coordinating the Strategy Implementation through the data value chain



# The Strategy Implementation Plan

2



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# Strategy implementation plan – focus on actionable steps

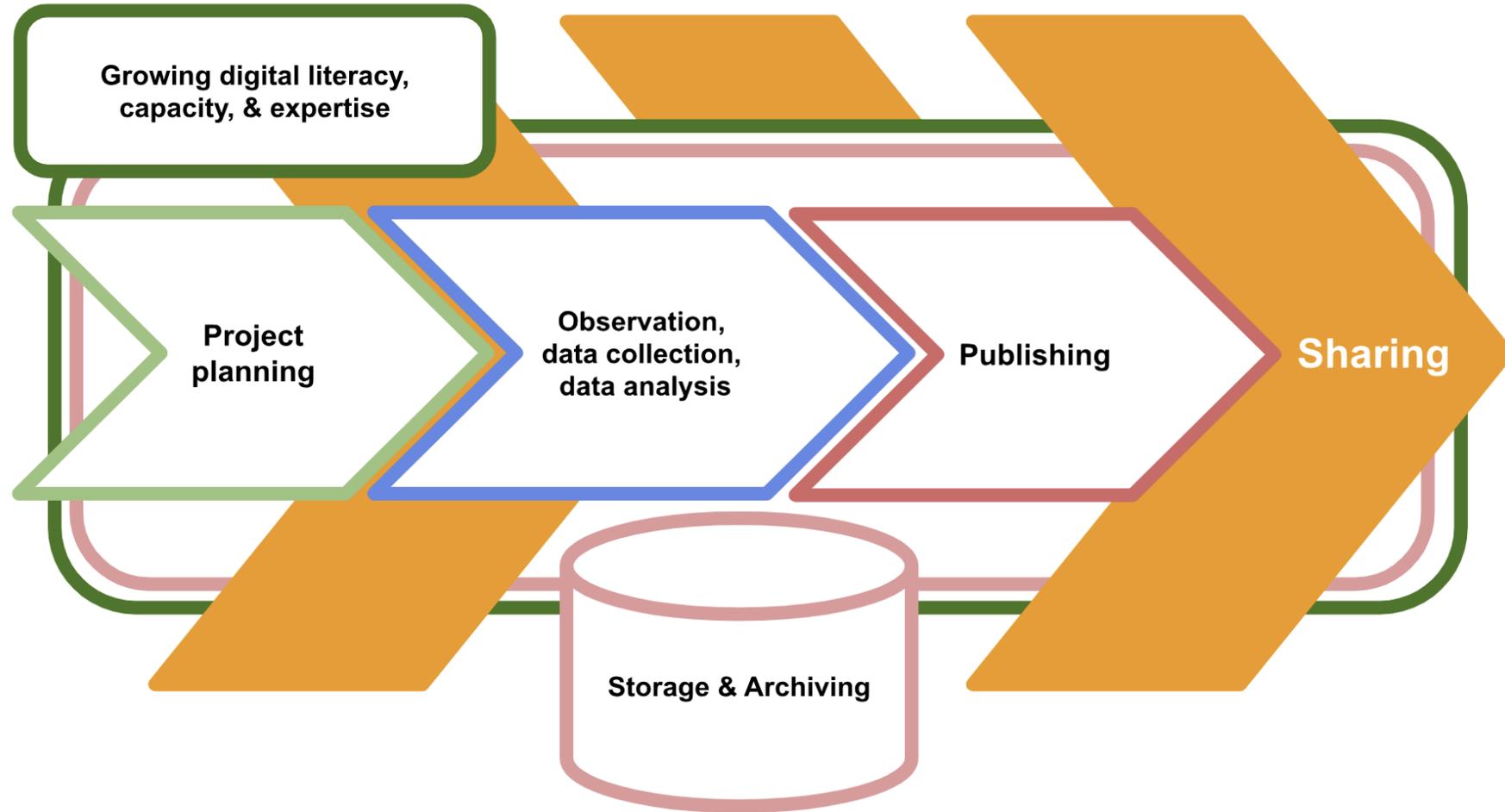
<b>Action</b>	A general description of the action.
<b>Action implementer</b>	A list of people responsible for the action.
<b>How to do this?</b>	Recommendations and examples of existing actions of this type.
<b>Rationale</b>	Rationale behind the action.

## Action: Write or modify your data management plan to be fit for the Ocean Decade

- **Action implementer:**
  - Project leads and coordinators, data team leads, all project participants
- **How to do this:**
  - Assess your existing data management plans (DMPs) or generate new DMPs factoring in the recommendations in this document, as well as those in the associated Strategy (see Introduction).
  - Ensure all DMPs, or parts thereof, are (from the earliest draft possible and where confidentiality and security factors allow) securely archived, version controlled, and publicly accessible via a dereferenceable persistent identifier (e.g. a DOI).
  - Ensure that your project's data flows - from all sources to all sinks - are clearly accounted for, tracking what form the data assumes (i.e. their formats, semantic markup, and other attributes) along each flow.
  - Review whether the funder for the data collection or the organisation overseeing data collection has sufficient resources or requirements for building specific data management and sharing plans.
    - If so: ensure that these resources are used to create a deep, accurate, and technically sound DMP, cross-referencing this document where suitable. This process should be led by data professionals. Ensure that mechanisms for revision and updating the DMP as the project develops are resourced.
    - If not: Inform the organisation / funder that this is a necessity for modern undertakings, even those that are not yet generating digitised forms of data, information, and knowledge. In all releases



# Strategy implementation plan – actions are organized according to project phases



# Strategy implementation plan – who are the priority implementers?

Implementers	Planning	Data collection, observations, analysis	Data Sharing	Storage & Archiving	Grow digital literacy, capacity, expertise
Decade-endorsed programme/project leads	●	●	●	●	
Data originators/providers		●	●	●	
IDOE National Oceanographic Data Centres (NODC) and Associate Data Units (ADU)		●	●	●	●
Global Data Assembly Centres (GDACs)		●	●	●	●
Ocean data centres / repositories		●	●	●	
Data publishers				●	●
Data users	●				●
...					

# Strategy implementation plan – Required Actions per project phase



Project Planning	
1	Include people in your project team that understand and can implement data management and sharing practices.
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.

# Strategy implementation plan – Required Actions per project phase

**Observation, data  
collection,  
&  
data analysis**

## Observations, Data Collection and Analysis

- |   |  |
|---|--|
| 7 | Ensure data collection and observation sensors deliver machine-readable metadata.                |
| 8 | Include detailed provenance information in the metadata for all observations and collected data. |
| 9 | Include data licence conditions and terms of use in the metadata.                                |

# Strategy implementation plan – Required Actions per project phase



Sharing	
10	Publish and promote your metadata and metadata catalogues freely and openly online.
11	Deploy access control and/or usage restriction measures for data that may require restricted access due to security, privacy, commercial sensitivity, or to comply with CARE principles.
12	Deploy free and open (non-proprietary) data dissemination tools, capable of data mediation.
13	Convert to web-accessible PIDs on the web; or preserve if already web-accessible (this concerns PIDs used prior to data sharing)
14	Connect your metadata (catalogue) with the global federation of catalogues.
15	Publish documentation on quality control processes and share metadata of these QA and QC processes, including information on validation software.
16	Enable multilingual search and indexing into existing data portals

# Strategy implementation plan – participate in the review process!

Sign up here to participate in the review process:



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



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# Thank you !

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