

# The Data & Information Strategy Implementation Plan

# 1



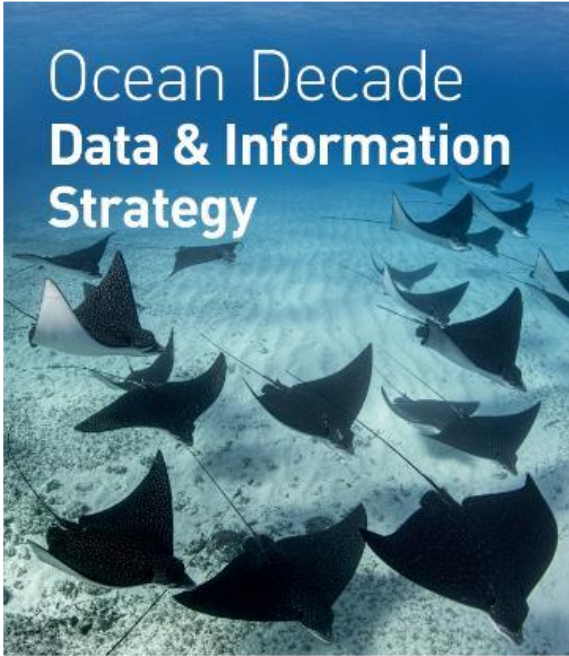
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2021 Décennie des Nations Unies  
2030 pour les sciences océaniques  
au service du développement durable

# Strategy implementation plan – Why it matters to you

## Ocean Decade Data & Information Strategy



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



### Vision

A trusted, inclusive, and interconnected ocean data and information ecosystem that is actively used for decision making to support sustainable ocean management.

### Mission

To catalyse a solution-oriented, global digital transformation for the digital ecosystem we need to overcome the Decade Challenges.

### Strategic Objectives



**1**  
Develop an ocean digital ecosystem that encourages the sharing and equitable access of multidisciplinary data, information and knowledge by all.



**2**  
Improve data and information discovery and usability across the ocean digital ecosystem.



**3**  
Build trust in data and information shared across the ocean digital ecosystem.



**4**  
Prioritise digital solutions that support decisions for sustainable ocean management.

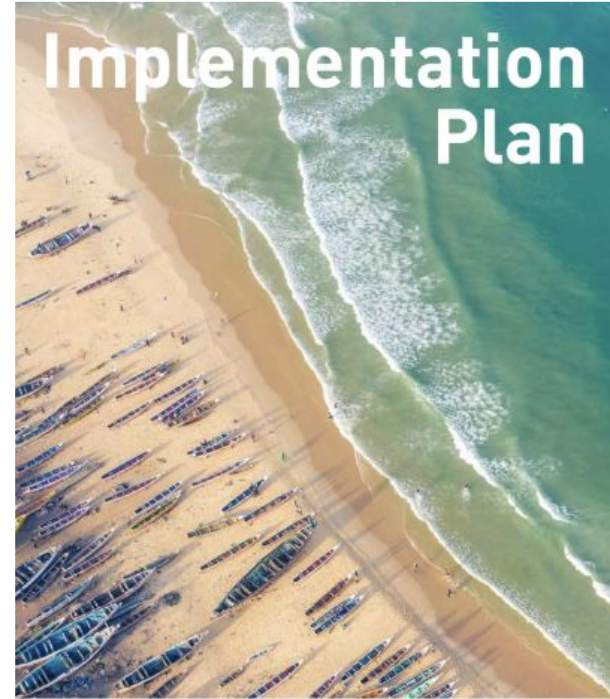


**5**  
Expand, empower, and mobilise global communities to advance and maintain the ocean digital ecosystem.

### Enablers

Technological Innovation // Partnerships // Durable Resourcing // Policy & Regulatory Frameworks

## Implementation Plan



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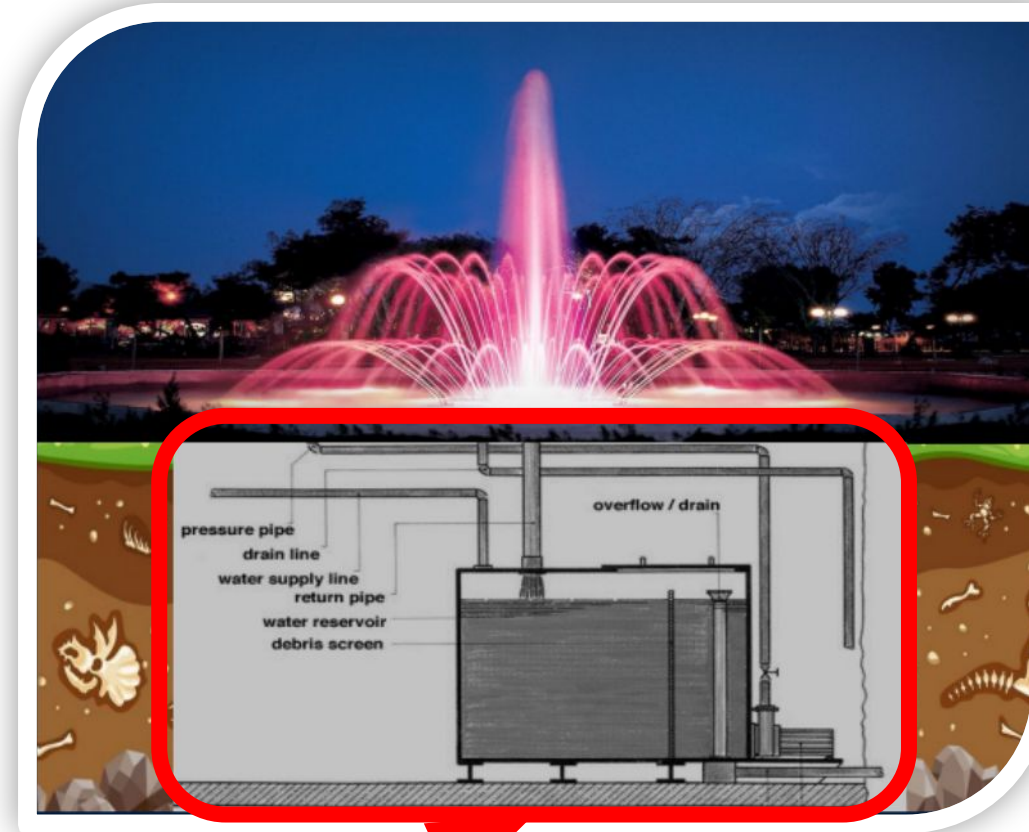
## “Sparkly fountains need robust plumbing systems”

– Terry McConnell

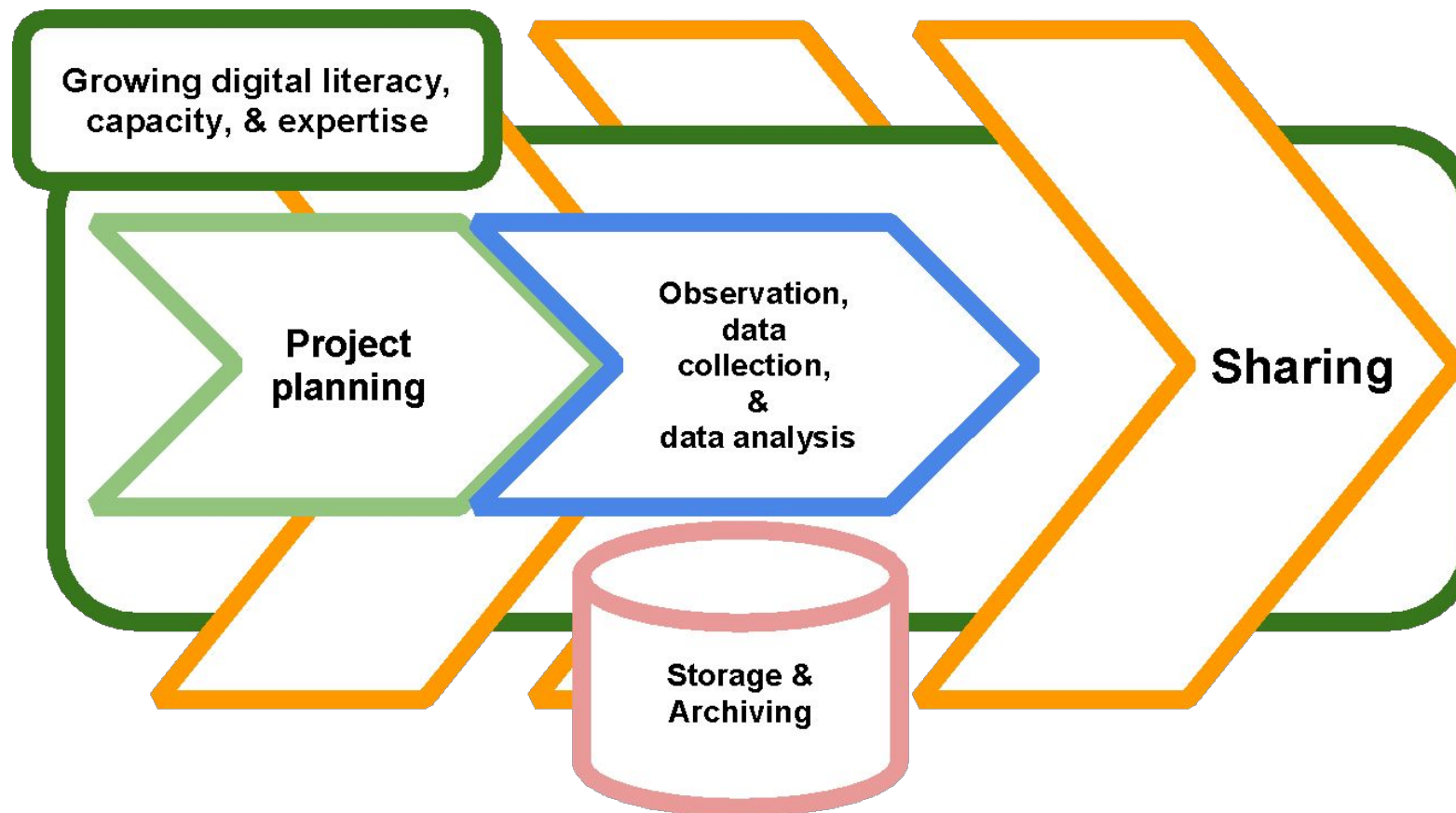
G7 International Digital T...

*Especially if you want to connect them*

*The IP talks about this bit, where the real magic happens*



## Strategy implementation plan – How is the document organised?



# Strategy implementation plan – who are the priority implementers?

Implementer	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 – example Action

<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

## What's transformative about this strategy and implementation plan?

Data as a first-class, prioritised, and early output of all Actions

Concrete steps to modernise and link data flows across science and sustainable development

Enhancing capacity to work with data on the web & AI-augmented systems

Foundations for new digital economics and marketplaces – new relationships between scientific and societal data

Operational norms for human and machine agents – data in controlled and ethical action, all the time, everywhere

# Strategy implementation plan – Next steps and timeline

## April

- Present Strategy Implementation Plan at Ocean Decade 2024 Conference
- Publish actions on GitHub as they are finalized

4

5

## May

- Gather all reviews and comments, including GitHub feedback
- Compile and publish final version

Sign up here to participate in the review and consultation process:



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

## September / October

- Gather all reviews and comments, including GitHub feedback
- Compile and publish final version

9/10

## August

- Consultation and review
- Finalize actions based on GitHub feedback



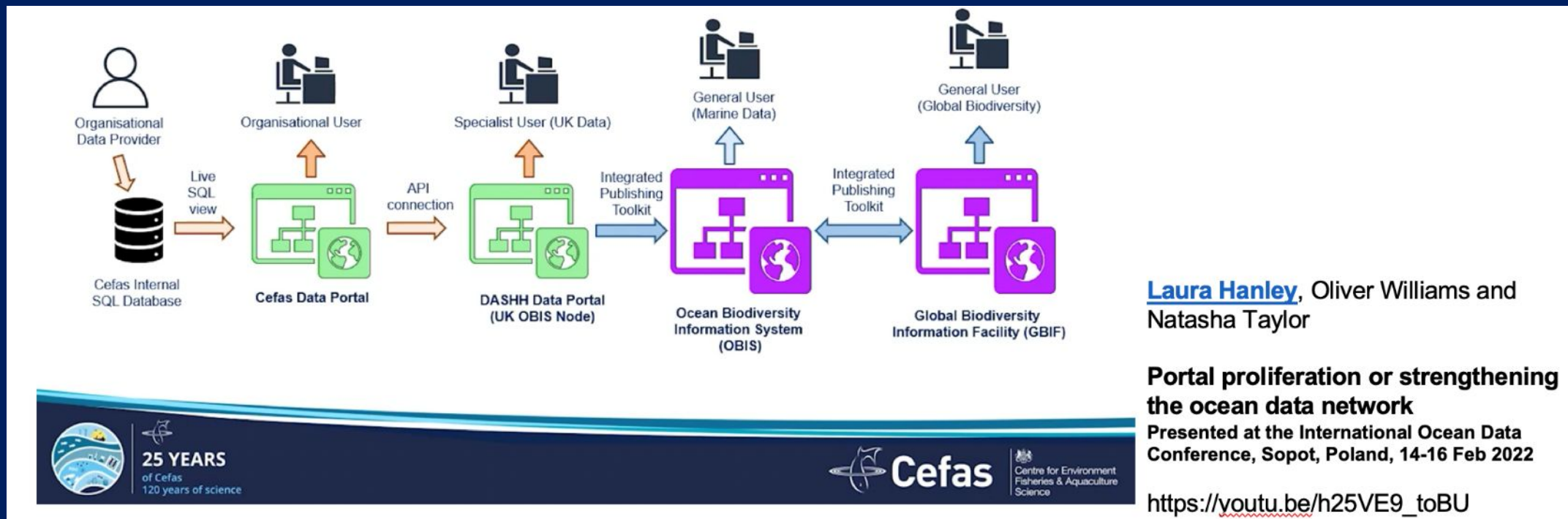
# Benefits of linking to a federated system (such as ODIS)

## Data providers

- Share (meta) data only once. Retain ownership and control. Change visibility of your data as you choose. Increase visibility of your data and information to the world.

## Data users

- Find data and information more easily from numerous sources. Easily see which are trusted sources (for example IODE accreditation / Core Trust Seal)
- Access the same data set through the portal or resource best suited to you.



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## Existing global portals

- Access the ODIS knowledge graph and >130,000 content items from partners. Re-share those of regional or thematic interest to your portal. Every record always links to the original source.
- One can be a contributor as well as a user

## Existing regional portals (eg SPREP)

- Regional Seas organisation serves the needs of member states in the Pacific.
- SPREP links to the Ocean InfoHub to increase access to global data useful to member states and for State of the Environment Reporting.
- SPREP facilitates member states / institutions to share their metadata for global discovery.