



Ocean InfoHub

Discover the Digital Ocean

The Ocean InfoHub aims to build a **sustainable, interoperable, and inclusive** digital ecosystem for all Ocean data centres. Existing and emerging data systems are linked, with the ultimate goal of **coordinating action and capacity to improve access to Ocean data and knowledge.**

The Ocean InfoHub provides an **openly accessible online platform** to network Ocean data centres according to their interests, needs, and capacities. The needs of individual users are actively connected with capacities described in the Hub, thereby **facilitating the exchange** of scientific knowledge, expertise, data, resources, training opportunities, and technology.

From common needs to shared goals

Worldwide sources of Ocean information and knowledge

- Ocean data and digital resources are **exponentially increasing** daily, in both volume and diversity of data types and sources.
- Local, national, and regional digital systems and infrastructures **need to be interlinked** to strengthen science, technology, innovation systems, and policies for the sustainable use and management of marine areas.
- Independent digital initiatives **need to be connected** to form a diverse, but interoperable and inclusive Ocean Data and Information System.

Converting challenges into action steps

The Ocean InfoHub Project aims to:

- **Improve access** to global oceans information, data and knowledge products for management and sustainable development;
- **Link and anchor a network of regional and thematic nodes** that will aggregate and improve online access to existing global, regional, and national data, information, and knowledge resources;
- Support the **discovery and interoperability** of existing information systems;
- Provide **technical support** to partners to join the digital ecosystem;
- **Promote a closer interaction** across regions and themes to support decision making;
- **Connect independent digital initiatives** to form a diverse, but interoperable and inclusive, Ocean Data and Information System.

The Ocean InfoHub Project brings together interdisciplinary scientific expertise, stakeholders, decision makers, institutions, organisations, individuals, and service providers with the shared goals of Ocean knowledge exchange and cooperation.



The development of the Ocean Data and Information System (ODIS) architecture is the digital glue that will help Ocean data centres connect to each other's data systems.

Ultimately, inter-, multi-, and transdisciplinary science, technology, and innovation systems and policies will be strengthened.

The project will benefit marine and coastal Ocean data centres across the globe, but its **initial focus** will be on helping connect Ocean data catalogues and services from three regions:

- **African region,**
- **Latin America and Caribbean region,**
- **Pacific Small Island Developing States**

Institutions from these regions were involved in designing the project from the proposal stage, and are fully engaged in the co-design process.

Ocean InfoHub

linking users and Ocean data worldwide

DATA

Existing Ocean data catalogues & services (like **Ocean Biodiversity Information System**, **OceanExpert**, **AquaDocs**, **Ocean Best Practices System**) and emerging ones



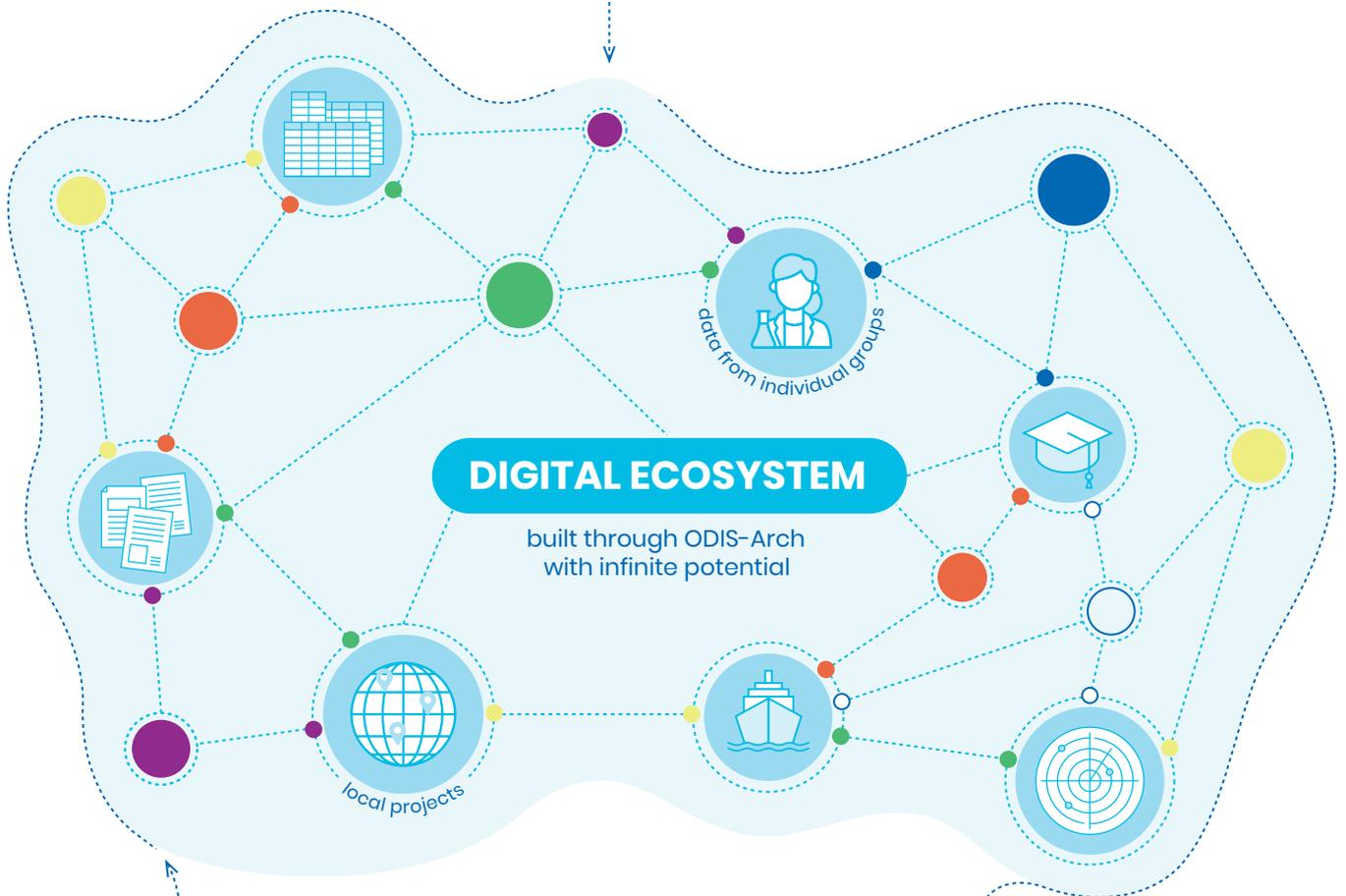
indexed through ODIS-Arch specifications

PATTERNS

Specifications to describe different **data types**

- Experts and institutions/organisations
- Documents
- Training opportunities
- Spatial data and maps
- Projects
- Research vessels

PROVIDING DATA



DIGITAL ECOSYSTEM

built through ODIS-Arch with infinite potential



SEARCH

through **InfoHub platform** and other search engines



CONNECT

marine and coastal Ocean data centres **across the globe**

USING DATA

Cooperate and exchange knowledge to build a truly shared Ocean

From shared goals to a common mission

The Ocean InfoHub digital ecosystem entails:

- **The web** as the collective Hub in which each source of information or node (regional hubs, local projects, data from individual groups) oversees their own contribution;
- The contribution of each **node** is projected to all the other nodes through the web;
- **Minimal requirements** and **exchange standards** that allow the nodes to continuously communicate to each other;
- **Labels** to organise data provided by the project;
- Guaranteed **greater inclusivity**, since anyone can create solutions leveraging the ODIS interoperability architecture.

Global Ocean knowledge accessible to all

The project will benefit marine and coastal Ocean data centres across the globe by:

- Improving access to information, providing better solutions to shared problems, and better management and decision-making for the **sustainability of Ocean ecosystems**;
- Addressing knowledge needs of **national and regional requirements**;
- Assisting countries in their reporting requirements for the **Sustainable Development Goals** (particularly Goals 4, 9, 14 and 17);
- Contributing to key aims of the **UN Decade of Ocean Science for Sustainable Development**, the **Paris Agreement**, the **Sendai Framework for Disaster Risk Reduction** and **Marine Biological Diversity of Areas Beyond National Jurisdiction**.

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<https://book.oceaninfohub.org>
<https://oceaninfohub.org>
<https://www.odis.org>

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Join the Ocean InfoHub and build a truly shared Ocean

Contact us through e-mail at info@oceaninfohub.org

We can help you share your organisation's Ocean data