



unesco

Intergovernmental
Oceanographic
Commission

IODE 2024-2025

IOC Officers Meeting
UNESCO HQ, 23-25 January 2024



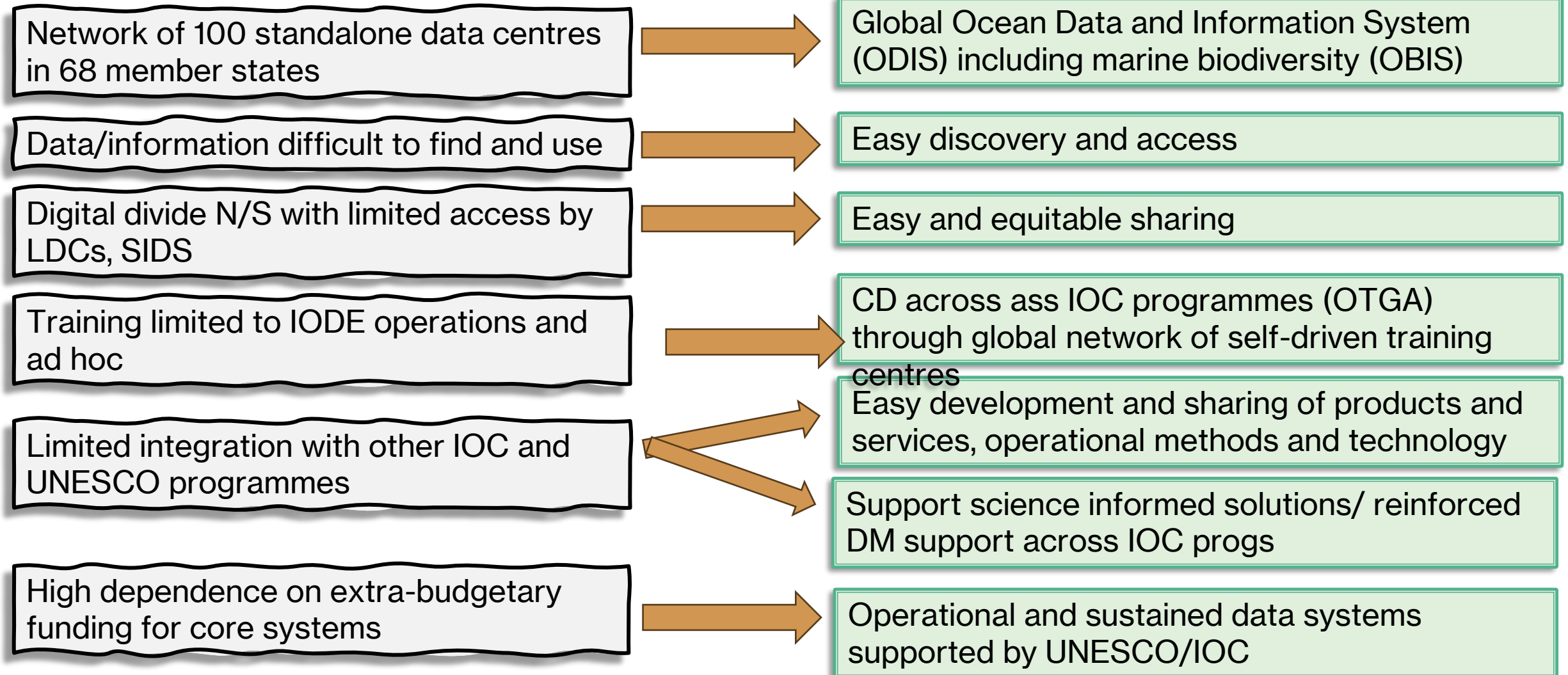
IODE 1961



- Established in 1961
- *"to enhance marine research, exploitation and development, by facilitating the exchange of oceanographic data and information between participating Member States, and by meeting the needs of users for data and information products"*

<https://www.iode.org>

IODE transformation 2023



IODE transformation 2023

ODIS

Federated digital ecosystem

- 28 partners
- World Ocean Database
- GODAR
- GTSPP
- GOSUD
- IQuOD
- AquaDocs
- OceanExpert
- ICAN
- OBPS (jointly with GOOS)
- QMF

OBIS

Global open-access data and information clearing-house on marine biodiversity for science, conservation and sustainable development

- 33 OBIS nodes
- PacMAN
- eDNA Expeditions
- MARCO-BOLO
- DTO-BioFlow
- MPA Europe
- eDNAquaPlan
- BioEcoOcean

- GOOS BioEco Portal
- HAB portal

OTGA

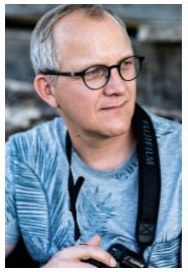
Federated training ecosystem with joint content platform and network of training centres

- 17 regional and specialized training centres
- Close cooperation with IOC Capacity development Unit

101 data centres in 68 Member States

IODE core team

OBIS



Ward.



Pieter



Silas.



Saara



Lisa.



Elizabeth.



Katherine.



Martha

ODIS



Pier Luigi.



Lucy

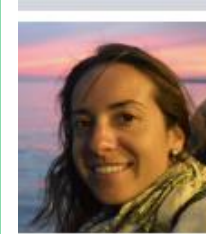


Doug.



Jeff

OTGA



Ana Carolina



Greg



Aidy



Uday

+ >100 members of SGs
+ >100 NODC, ADU, AIU colleagues
+ >100s experts

IODE management, administrative and technical support



Peter



Kristin



Sofie



Arno



Lotta

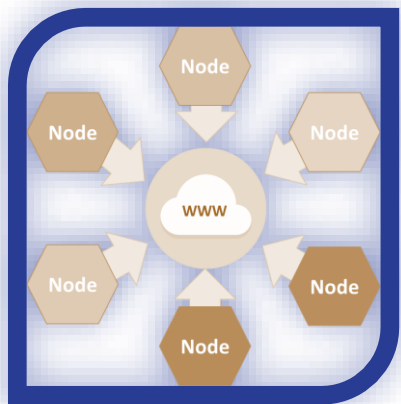


Paula

The Ocean InfoHub and ODIS



Mission: To build a sustainable, interoperable, and inclusive digital ecosystem for all ocean stakeholders



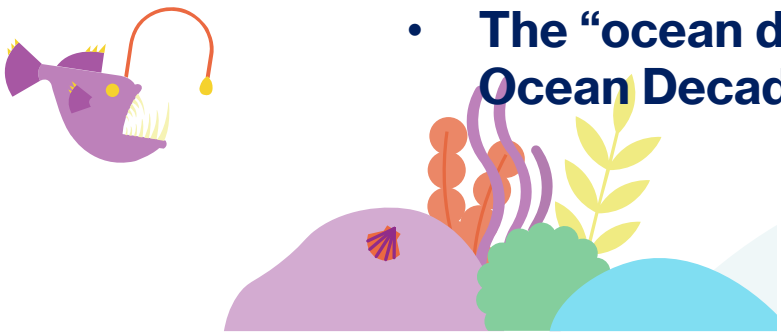
- Improve discovery and interoperability of existing information systems across sectors (private, public, etc) for sustainable ocean management
- Provide capacity building to support contributors and end-users of the global OIH and regional nodes
- Connect independent digital initiatives to form a diverse, but interoperable and inclusive, Ocean Data and Information System

2021-2023 Proof of concept demonstrated with 28 partners from around the world

2024-2025

- Begin implementation of ODIS as an IODE Programme
- **ODIS offers a long-term solution for NODCs, ADUs, scientific infrastructures, and new partners to co-implement FAIR**
- **The “ocean digital ecosystem” aligned to the “Data & Information Strategy for the UN Ocean Decade”**

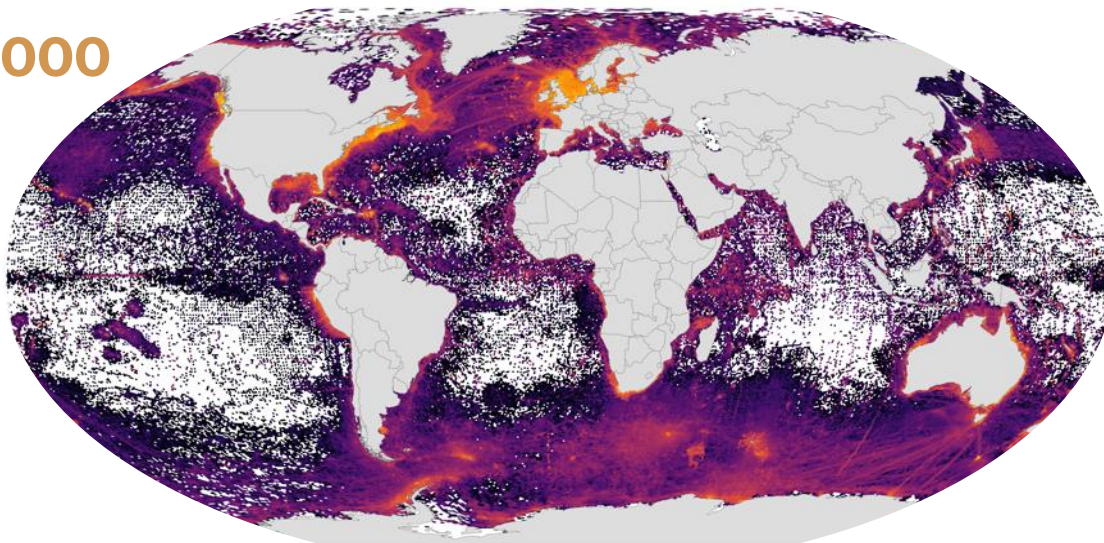
The internet of ocean data and information?



Ocean Biodiversity

To be the most comprehensive gateway to the world's ocean biodiversity and biogeographic data and information required to address pressing coastal and world ocean concerns.

Since 2000



126,479,041
PRESENCE RECORDS

168,123,962
MEASUREMENTS AND FACTS

5,092
DATASETS

183,441
ACCEPTED SPECIES

23,341,844
SEQUENCES

Highlights

- x10 data contributions
- x2 scientific papers
- ±5M US\$ in projects (5 EU + 2 FUST)
- Increase from 2 to 6 staff
- eDNA focus, UNESCO DG priority

Priorities
2024
beyond

Data Mobilization
Data Products (CBD, IPBES, WOA, ...)
Partnerships

How?

- Two OBIS coordination groups (data & products)
- Cooperation with GOOS and OCG
- Shared workspace for products
- Training and local field projects

OTGA – strategic objectives and action

VISION

To build equitable capacity related to ocean research, observations, and services in all IOC Member States by delivering training courses on a range of topics addressing the priority areas of the UN Decade of Ocean Science for Sustainable Development and the 2030 Agenda and its SDGs as well as supporting the implementation of the IOCCapacity Development Strategy.

Sharing **training resources and expertise** in a coordinated framework



Regional and Specialized **Training Centres**

Languages used for teaching:
English, Spanish, French, Portuguese

Outcome N° 1 Increased capacity and skills by ocean specialists to use standards and best practices tools towards achieving SDG 14.

Outcome N° 2 Regional and Specialized Training Centres efficiently developed and managing the training programme

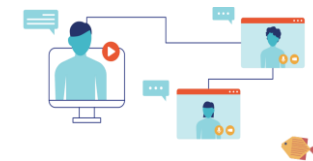
How?

- **Training courses (online, F2F, blended)**
- **Network of RTC/STC**
- **Common e-Learning platform**
- **Quality procedures ISO certification**

Priorities 2024 beyond

- + face-to-face training
- international internship
- education innovation
- resource mobilization

<https://oceanteacher.org>



Linkages...

IOC section/programme	Cooperation
Ocean Science	<ol style="list-style-type: none">1. Harmful Algal Information System (HAIS)2. Global Ocean Oxygen Database and Atlas (GO2DAT)3. SDG 14.3.1 data portal
Ocean Observations (GOOS)	<ol style="list-style-type: none">1. IODE/GOOS Ocean Best Practices System (OBPS)
Tsunami resilience	<ol style="list-style-type: none">1. Training courses through OTGA
Marine Policy & Regions	-
Capacity Development	<ol style="list-style-type: none">1. OceanTeacher Global Academy2. CD-Hub

IODE strategic objectives

In simple terms...



- Further develop the IOC Ocean Data and Information System (ODIS) into a global ocean data and information ecosystem making available data and information sources of all member states and to all member states
- Further develop the Ocean Biodiversity Information System (OBIS) into a globally interconnected community of practice, facilitating seamless and near-real-time data flows, from biological observations to practical applications.
- Ensure that all IOC Member States have the necessary capacity to manage ocean data and information (as part of the IOC value chain) and to develop products, services and policy advice for sustainable ocean planning and management