

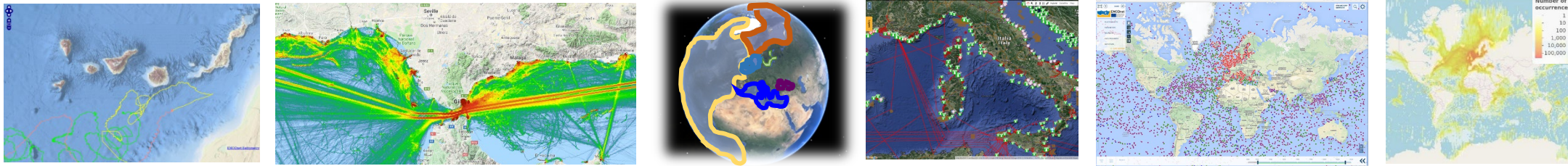


European Marine Observation and Data Network (EMODnet) for the Ocean Decade and supporting global users

EMODnet Secretariat

secretariat@emodnet.eu

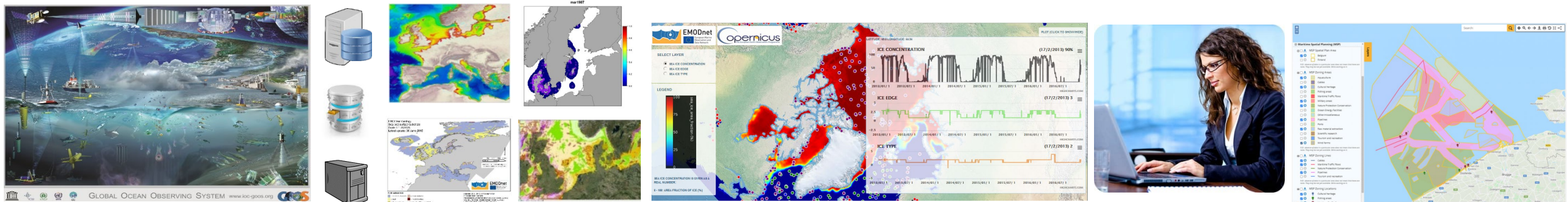
- From *national to regional to Pan-european to global*



- Bringing *people & ideas together*



- Towards an overarching digital *ocean data ecosystem* accessible to all



EMODnet: Strategic European and Global Partnerships

EuroGOOS European Global Ocean Observing System

European Environment Agency

Copernicus Marine Service

ICES CIEM

OSPAR COMMISSION

MARINE BOARD Advancing Seas & Oceans Science

eur@ocean

European Aquaculture Technology and Innovation Platform

SeaDataNet

JPI OCEANS

urOBIS European Ocean Biodiversity Information System

Blue-Cloud Identifying innovative services for Marine Research & the Blue Economy

EUROPEAN OPEN SCIENCE CLOUD

EuroSea

ICOS Integrated Carbon Observation System

Eurofleets+ An alliance of European marine research infrastructure

EMBRIC EUROPEAN MARINE BIOLOGICAL RESOURCE CENTRE

PANGAEA Data Publisher for Earth & Environmental Science

ODYSSEA

EuroArgo

DANUBIUS-RI

emso ERIC

GOOS The Global Ocean Observing System

GEOSS Global Earth Observation System of Systems

GEO BLUE PLANET

国家海洋信息中心 NATIONAL MARINE DATA AND INFORMATION SERVICE

EMODnet European Marine Observation and Data Network

ENVRI community

JERICO RI SCIENCE - SERVICES - SUSTAINABILITY

Lifewatch ERIC

marine spatial planning global

EMODnet European Marine Observation and Data Network

EMODnet for Global

2021 United Nations Decade of Ocean Science for Sustainable Development

OBIS OCEAN BIODIVERSITY INFORMATION SYSTEM

Ocean Best Practices oceanbestpractices.org

EMODnet for the UN Ocean Decade

EMODnet as a Decade Implementing Partner

A leading regional marine data, information & knowledge serv

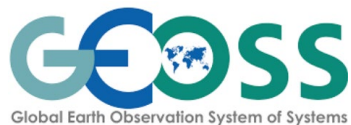


Covers all 6 UN Ocean Decade objectives:

- ✓ A safe **ocean**
- ✓ A sustainable and productive **ocean**.
- ✓ A transparent and accessible **ocean**.
- ✓ A clean **ocean**.
- ✓ A healthy and resilient **ocean**.
- ✓ A predicted **ocean**.

Particularly the **cross-cutting theme**: a transparent and accessible **ocean** and **challenges** requiring the generation of knowledge via EMODnet's wealth of (increasingly centralized) open source, free & FAIR data and data products, via data and web services, driving open science, democratizing access to information and the co-creation of knowledge etc.

Co-Chair of the UN Ocean Decade (OD) Data Coordination Group (EMODnet Secretariat);



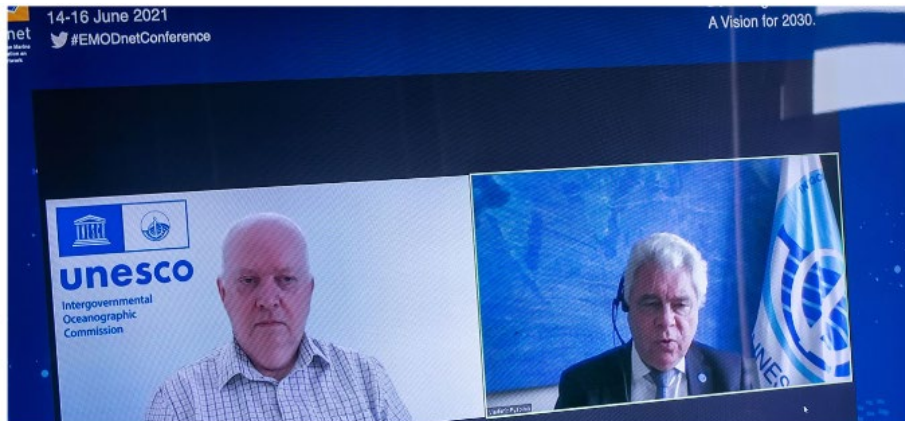
emodnet.ec.europa.eu



EMODnet: A regional marine data, information and knowledge service directly contributing in diverse ways to the UN Ocean Decade



- Contributor and expert to the IWG-SODIS Intersessional Working Group Strategy on Ocean Data and Information Stewardship for the UN Decade (EMODnet Coordinators);
- Multiple inputs to UN OD Actions:
 - DITTO (Digital Twins of the Ocean, Steering partner)
 - COAST PREDICT (Advisor role)
 - Ocean Best Practices (EMODnet referenced)
- Ocean Data and Information System (ODIS): All EMODnet thematic portals/central portal are registered on ODIS catalogue. Additional records will be added from the EU-China EMOD-PACE marine data project;
- IOC Ocean InfoHub Project (OIH): EMODnet is a European focal point & technical advisor to the development of ODIS architecture & interoperability with EMODnet.
- Co-Chair of the UN Ocean Decade (OD) Data Coordination Group (EMODnet Secretariat);



"We want global data and information systems and EMODnet's guidelines are great for community of practice. The network is also a role model for other regions."
Peter Pissierssens, IOC-IODE UNESCO

EMODnet: Testimonials from global stakeholders and users

“The European Union and EMODnet, provide the most advanced data management of marine data in the world, and this should be better promoted”

Phil Weaver, former Scientific Director of the National Oceanography Centre in Southampton, former Chair of the EMODnet Steering Committee



“We want global data and information systems and EMODnet’s guidelines are great for community of practice. The network is also a role model for other regions.”

Peter Pissierssens (IOC-IODE UNESCO)



“EMODnet – a true hallmark in Marine Observations, Data and networking – is hugely important, not only for Europe, but as an example for other regions, and a valuable partner for IOC of UNESCO”.

Vladimir Ryabinin (IOC-UNESCO)



“EMODnet, together with Copernicus Marine Service and other EU assets, will be at the forefront of developments towards the Digital Twin of the Ocean and the elaborate system models of Destination Earth.....

The work of EMODnet is at the heart of DG MARE’s activities. It’s among the highest priorities to ensure EMODnet’s continuity, sustainability and developments”

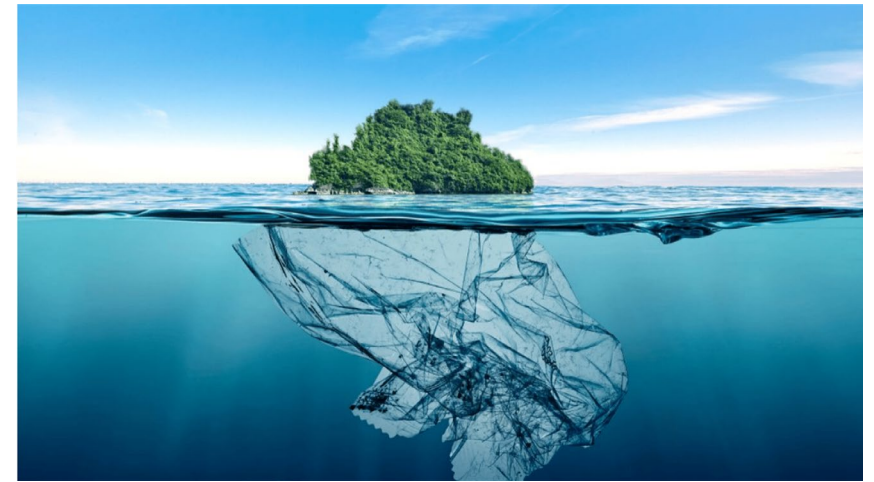
Charlina Vitcheva, EC, DG MARE



The Ocean Decade UN SDG 14 & Data



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



Framework
~~The Science We Need~~
for
Data
~~the Ocean We Want~~

Data and information will be key enablers of the United Nations Decade of Ocean Science for Sustainable Development, and by extension in achieving SDG14.

Digitizing, preserving, managing, exchanging and, most importantly, using a significantly increased volume and range of ocean-related data, information and knowledge will be cornerstones of the success.

The Ocean Decade UN SDG 14 & Data



Towards a **distributed digital data and information ecosystem** capable of:

- holistically representing the complex socio-ecological ocean system;
- representing the ocean's role in sustainable development across scales.
- Allowing **ALL STAKEHOLDERS** to access, use, and contribute to this digital ecosystem using interfaces tailored to their needs and capacities.



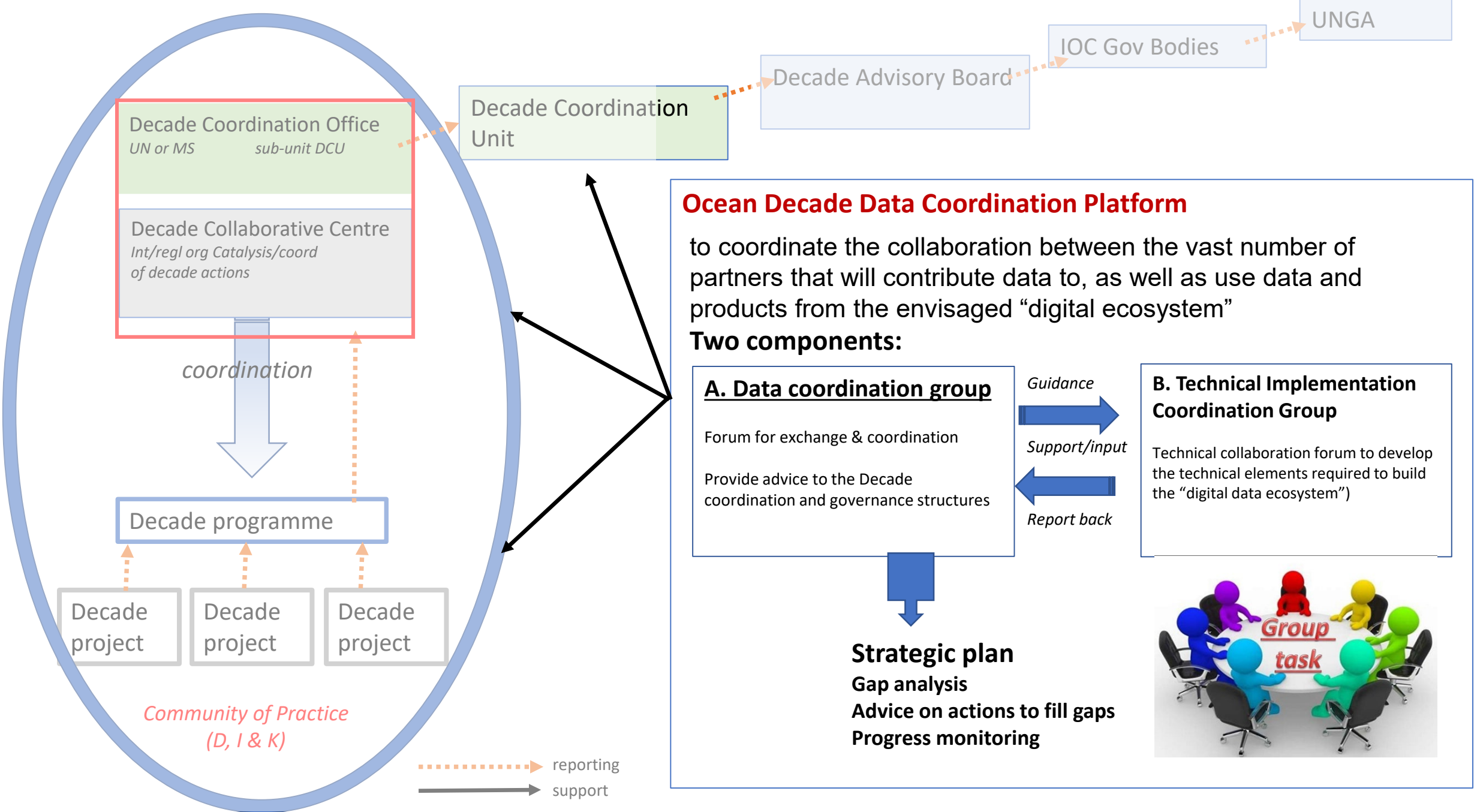
Framework

~~The Science We Need~~

for

Data

~~the Ocean We Want~~



Decade Coordination Office
UN or MS sub-unit DCU

Decade Collaborative Centre
Int/regl org Catalysis/coord of decade actions

coordination

Decade programme

Decade project Decade project Decade project

Community of Practice (D, I & K)

Decade Coordination Unit

Decade Advisory Board

IOC Gov Bodies

UNGA

Ocean Decade Data Coordination Platform

to coordinate the collaboration between the vast number of partners that will contribute data to, as well as use data and products from the envisaged “digital ecosystem”

Two components:

A. Data coordination group

Forum for exchange & coordination

Provide advice to the Decade coordination and governance structures

Guidance

→

Support/input

←

Report back

B. Technical Implementation Coordination Group

Technical collaboration forum to develop the technical elements required to build the “digital data ecosystem”

Strategic plan

Gap analysis
Advice on actions to fill gaps
Progress monitoring

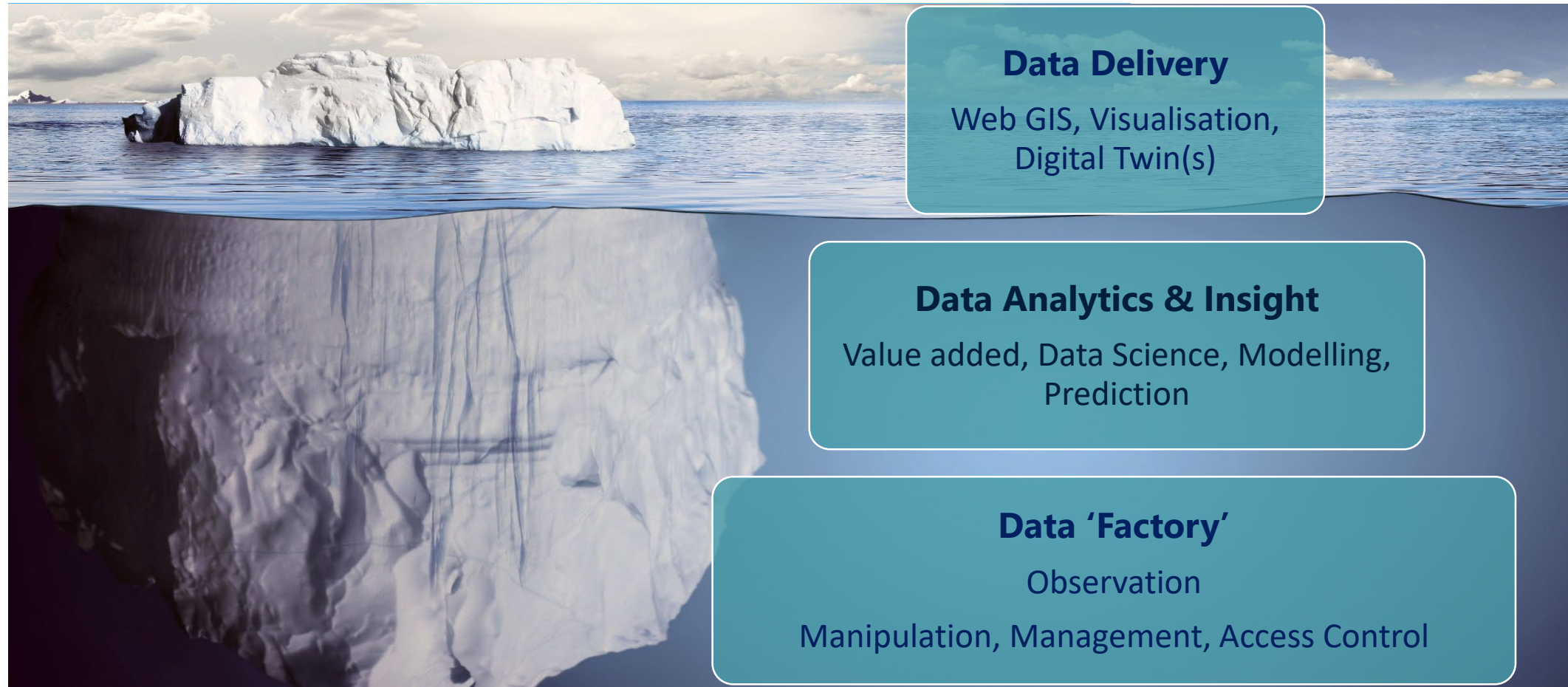
Group task

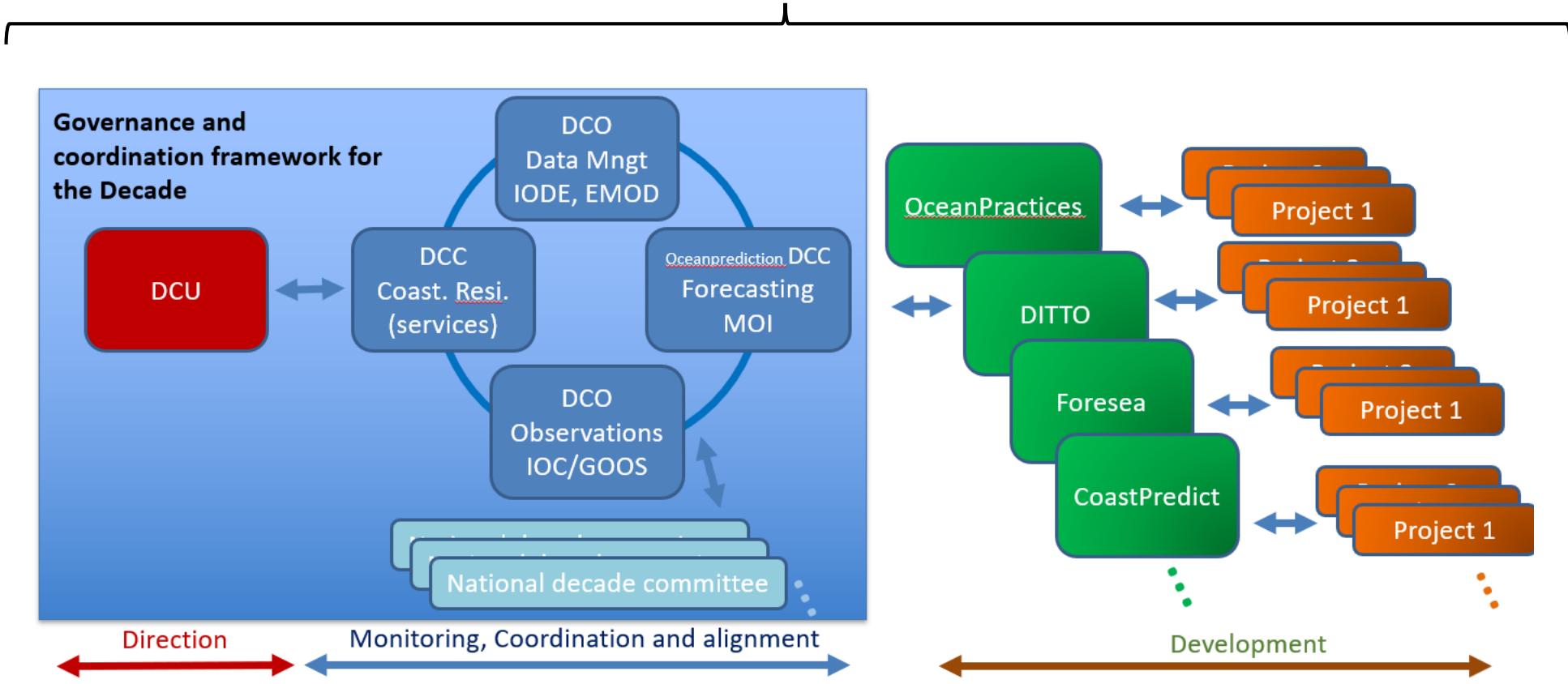
reporting support

Some reflections on the envisaged Ocean Data Eco-system

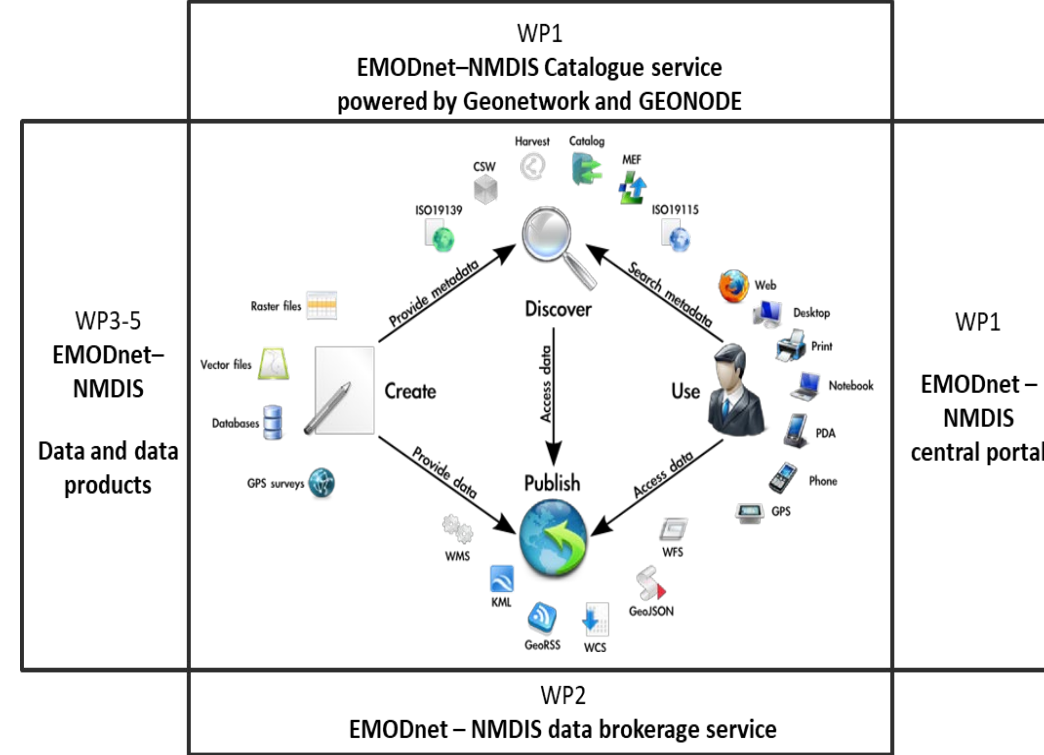
Foundational components of the 'Digital Eco-system'

that are integral to all science projects Managing Data and Knowledge during the Ocean Decade





Prepared by Enrique Alvarez Fanjul and the Mercator Ocean International team



EMODnet Partnership for China and Europe - Strengthening international ocean data through the EU's ocean diplomacy with China

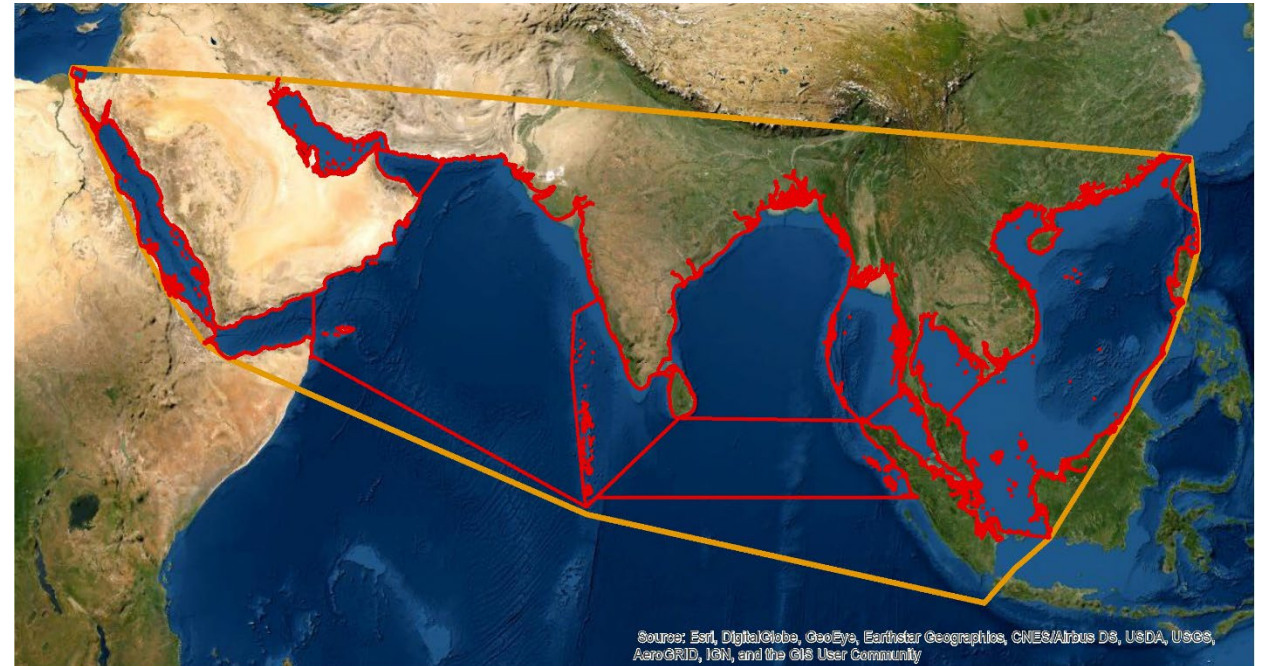
EMOD-PACE (EMODnet Partnership for China and Europe)



WP5 Aims

The aim of WP5 is to provide data/information products covering the Seas crossed by the maritime silk road on:

- Relative sea level changes;
- Absolute sea level changes;
- Coastal erosion;
- Wetland degradation;
- Vessel traffic density.



WP5

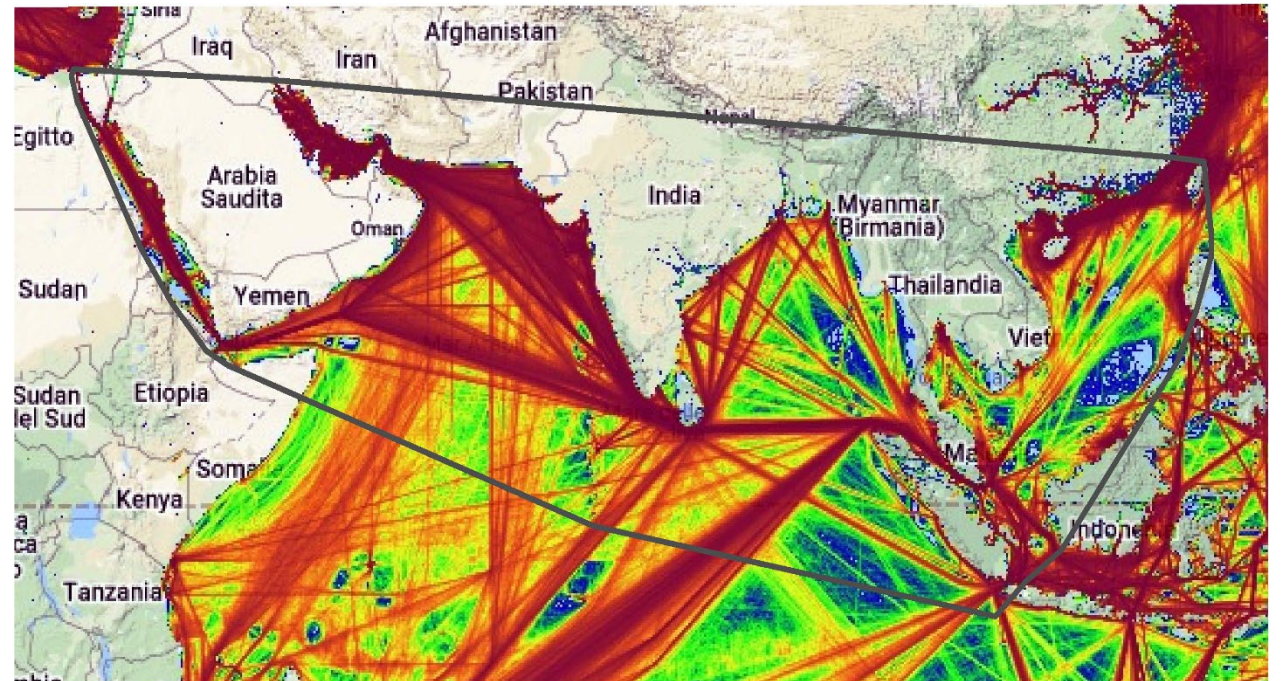
Expected Outcome – Milestones and Deliverables

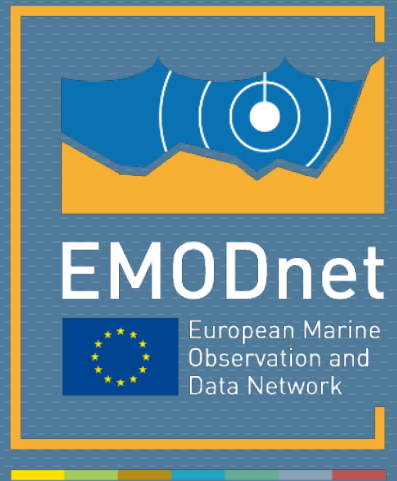
Milestone 5.1. Digital map available on line. Formats and standards agreed for parameters (M12)

Milestone 5.2. Digital map available with all parameters available for feedback (M24)

Milestone 5.3. Fully operational digital map incorporated in project web-site (M30)

Deliverable 5.1. Online discussion paper on the translation of mapped coastal behaviour into mapped coastal resilience, an applied data product with clear added value because it can be used in decision making (M30)





emodnet.ec.europa.eu

Your gateway to marine data in Europe



EMODnet for Global: Wider contributions to UN 2030 Agenda and UN Ocean Conference

- SDG 14.3.1 data portal on <http://oa.iode.org>
- SULITEST SDG14 MODULE - WORKING GROUP by UN DESA, sulitest and MOi (EMODnet Secretariat & EMODnet Chemistry)
- UN Ocean Conference 2021 (dates to be confirmed): Potential joint EMODnet-CMEMS side meeting on “Marine data for SDG14 and the UN2030 Agenda”