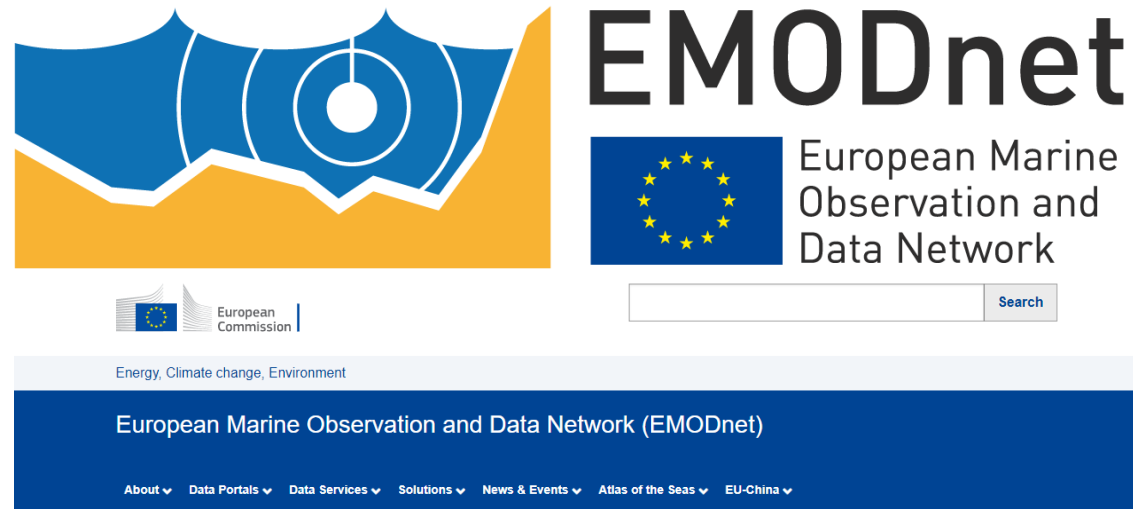


# EMODnet Secretariat IV: new phase, new workplan

EMODnet Steering Committee Meeting, 28 April 2022

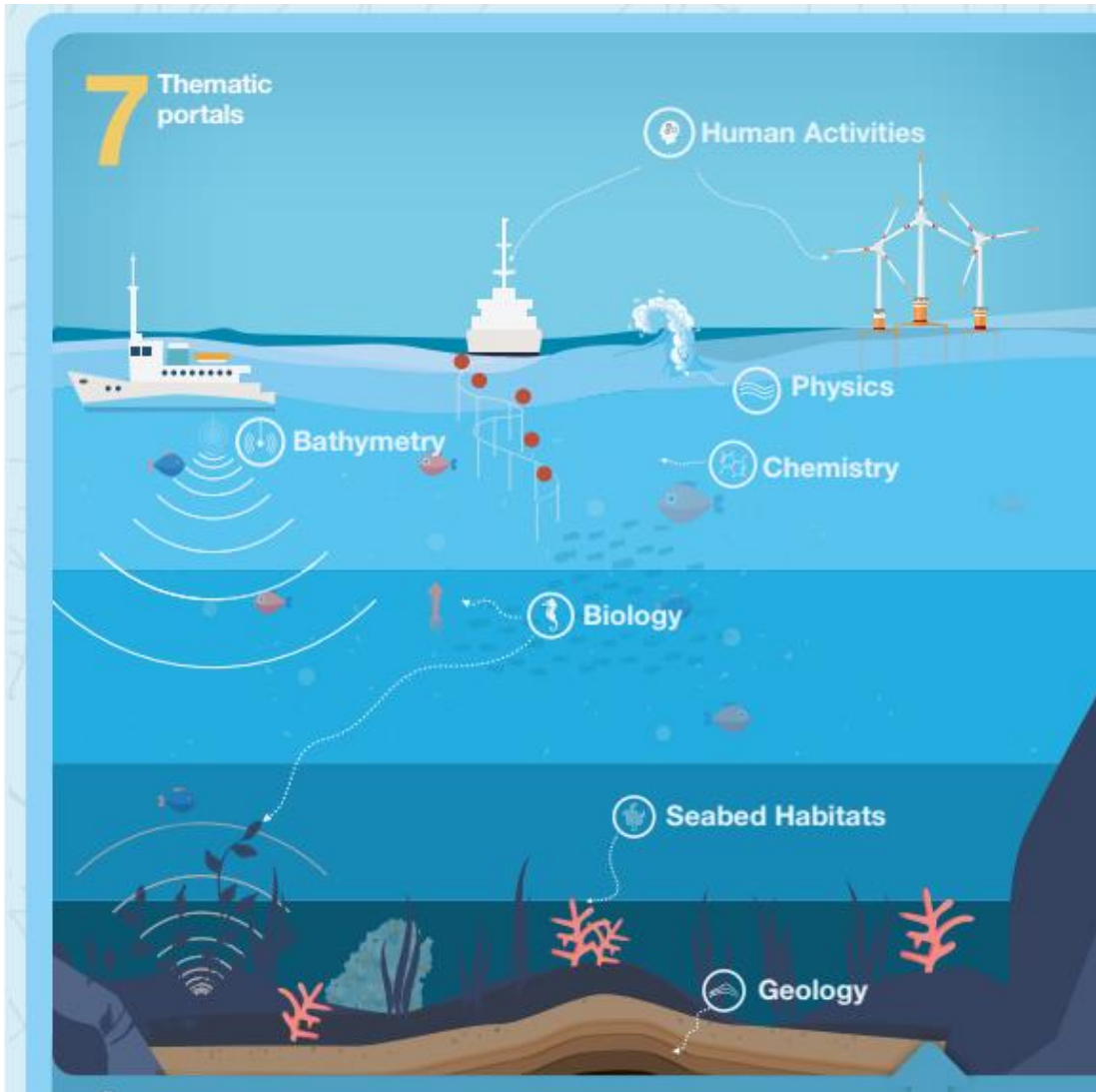




The European Marine Observation and Data Network (EMODnet) is:

- a long-term *public* marine data service and marine knowledge initiative funded by the European Commission (DG MARE);
- a European authority and regional best practice in the marine data domain;
- a key marine knowledge initiative which together with Copernicus Marine Service provides the back-bone for the European marine data space, a key contributor to the Global Ocean Data Ecosystem and digital commons.

## EMODnet: A trusted *in situ* marine data service, open and free for all



The **EMODnet Central Portal** offers a single, open and free entry point to all **7 EMODnet thematic**s, which offer:

- Harmonised, standardized and integrated datasets** – each collated from hundreds of data providers - spanning a **large diversity of marine environmental parameters** from the ocean surface to the seabed, and data on **human activities at sea**;
- Data products** (e.g., Bathymetry Digital Terrain model);
- Extensive and harmonised coverage** across European seas and beyond.

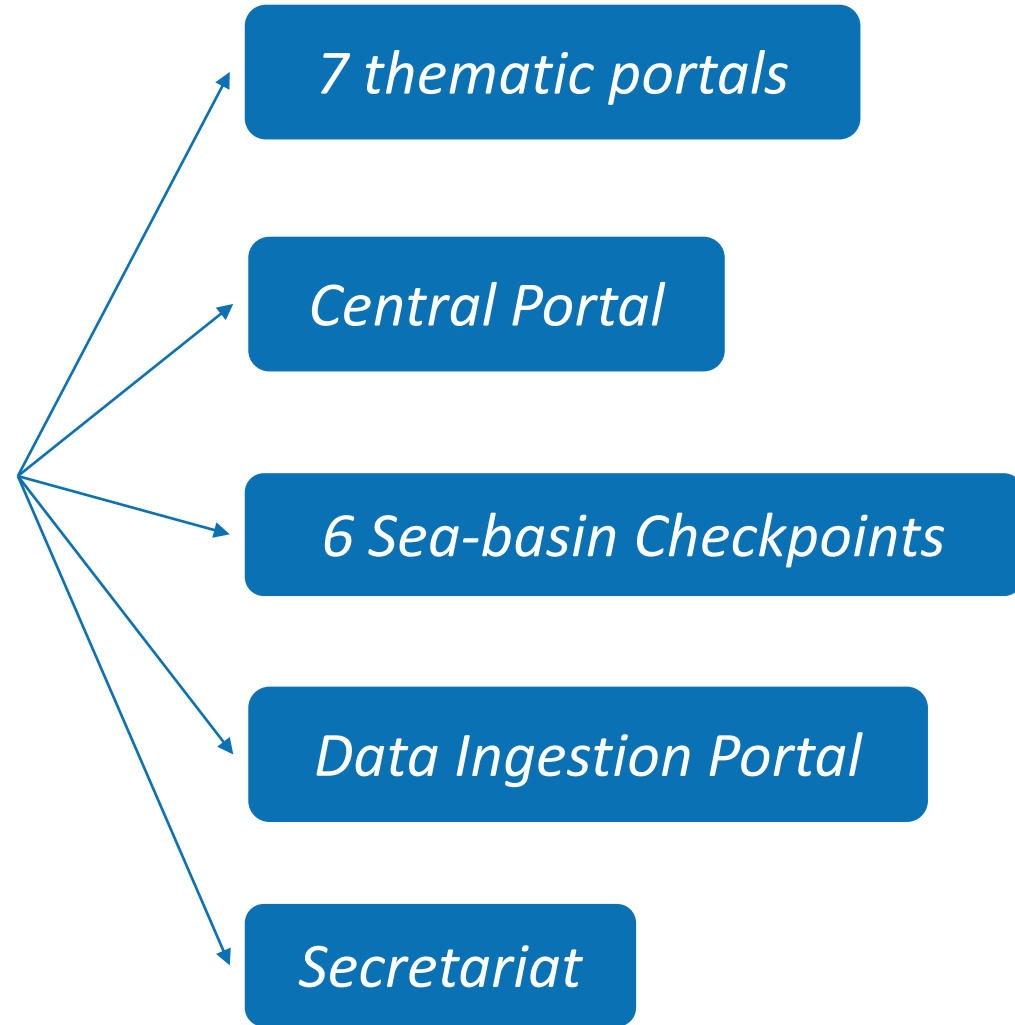
# EMODnet Structure



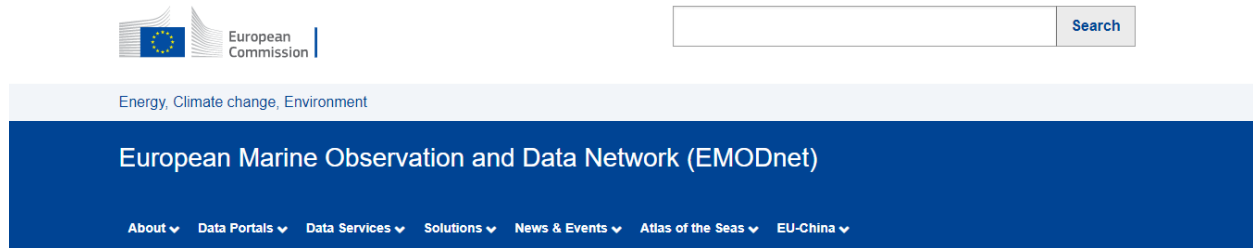
**EMODnet**



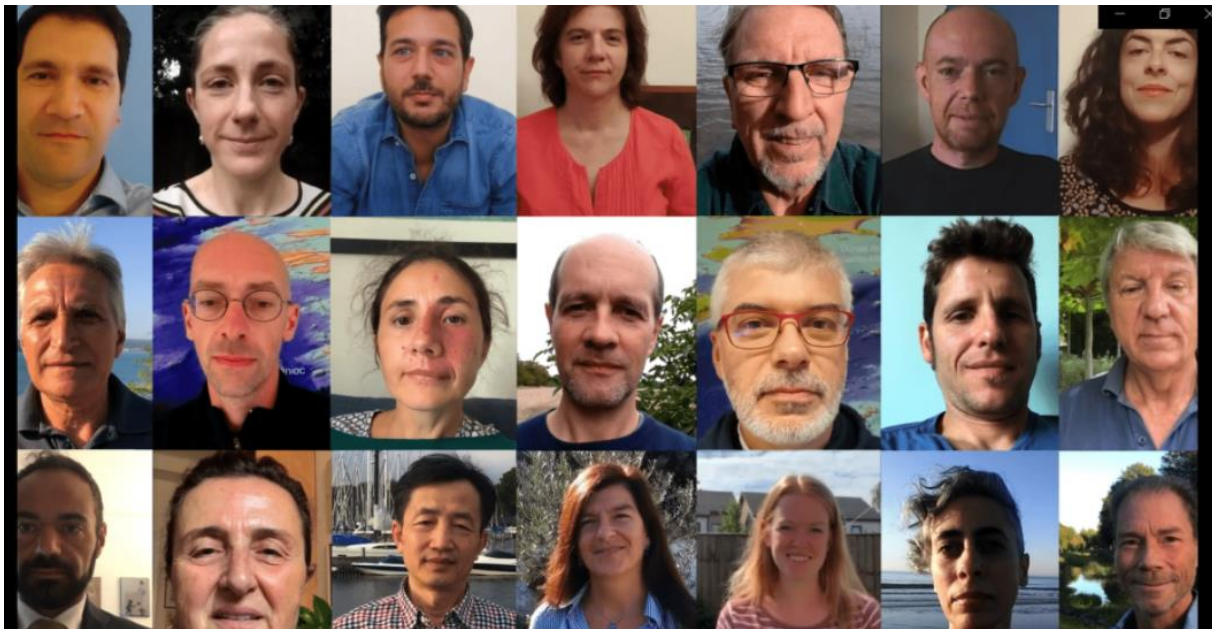
European Marine  
Observation and  
Data Network



# EMODnet: Made possible by a large community of *in situ* marine data experts connecting ocean observations with data infrastructures and users for a user-driven, operational service



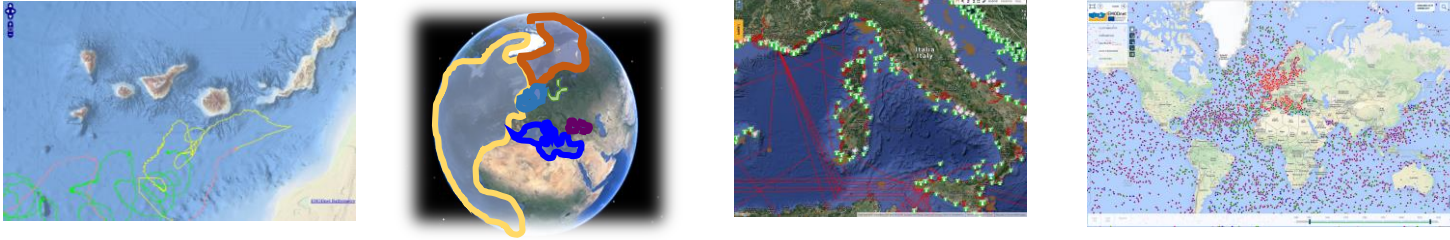
More than a decade of partnership, collaboration and excellence



- Large network of >120 organizations and hundreds more across the wider marine data landscape of data producers, providers, users;
- Expert community of thematic and data ingestion experts specializing in data management, visualization, services for *in situ* marine domain data; Close collaboration across the Marine Knowledge Value Chain e.g., EuroGOOS, Marine data infrastructures e.g., SeaDataNet, Research Infrastructures, Copernicus Marine, ICES, User community (research, policy, industry, civil society, citizens), etc;
- A Secretariat of marine domain and data experts for coordination and cohesion (technical to science-policy, ocean observation to data services and users), monitoring progress and impact, partnerships (EU and global), communication, dissemination, ocean literacy.

# EMODnet evolution: A decade of achievements

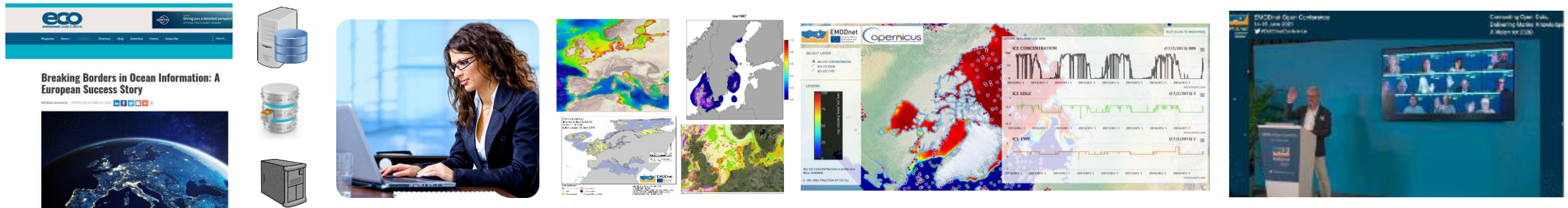
- From regional to pan-European coverage and onwards to global remit



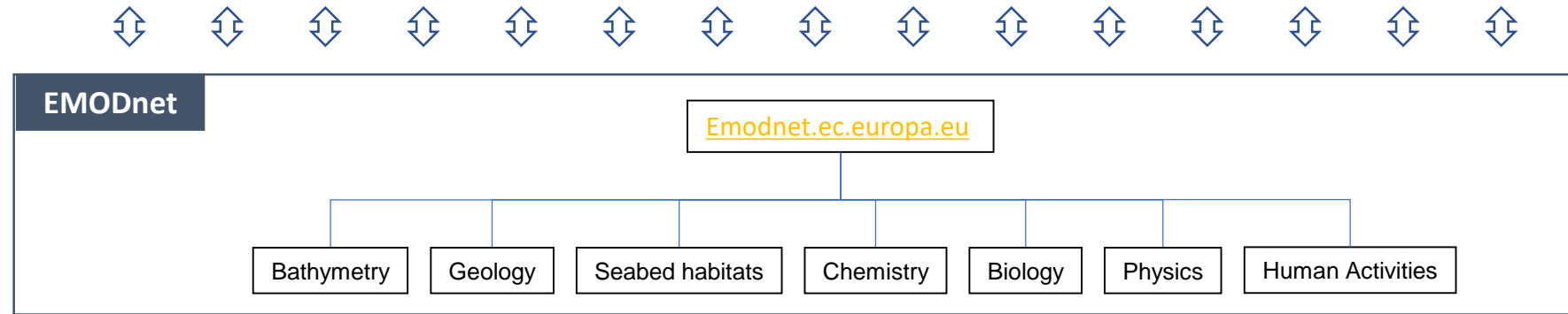
- From a small network to a movement - bringing people & ideas together



- From prototypes to a fully operational, mature and user-driven distributed infrastructure



# EMODnet: Connecting ocean observations and marine data to users



Subset of parameters

European: Aggregator organisation, networks & databases  
e.g. SeaDataNet, EurOBIS, eurostat, thematic databases assembling national data, ...

Subset of parameters

National: Member State Archiving Centres & Databases  
e.g. National Oceanographic Data Centres (NODCs), Regional Ocean Observing Systems (ROOSs), ...



Observing systems, networks, data acquisition activities  
e.g. research vessels, output from research & monitoring programmes, fixed stations and observatories, archives, ...

# EMODnet: Connecting ocean observations and marine data to users

The screenshot displays the EMODnet website interface. At the top, there is a navigation bar with the European Commission logo, a 'Log in' button, a language selector set to 'English', and a search box. Below this, a breadcrumb trail reads 'Law > Ocean observation – sharing responsibility'. The main content area is titled 'Ocean observation – sharing responsibility' and includes a sidebar on the left with 'In preparation' and 'Roadmap' sections. The 'Roadmap' section shows a feedback period from 22 October 2020 to 19 November 2020, with a 'FEEDBACK: CLOSED' status. The main content area features an 'About this initiative' section with a 'Summary' and a 'Roadmap' section. The 'Summary' states that ocean observation is essential for the Green Deal and that data are collected by different authorities for different purposes. The 'Roadmap' section indicates that the initiative aims to achieve a common EU approach for measuring once and using the data for many purposes. It also lists two key proposals: joint planning of observation activities and a framework for collaboration on a national and EU scale. Below the text, there is a video player showing a grid of participants in a virtual meeting titled 'EC Ocean Observation event (18 June 2021)'. The video player includes a 'Share this article' button and a 'More like this' section with links to related events and publications.

- The EMODnet Secretariat and wider network support the EC Ocean Observation – sharing responsibility initiative that aims to promote more coordination in ocean observation and marine monitoring and data collection at the national Member State level;
- EMODnet co-organize community events e.g., large Conferences (EOOS Conference 2018), expert workshops (EC Ocean Observation workshop, 18 June 2021), studies and targeted assessments (2022-)

[ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12539-Ocean-observation-sharing-responsibility\\_en](https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12539-Ocean-observation-sharing-responsibility_en)

<https://webgate.ec.europa.eu/maritimeforum/en/node/6188>



# EMODnet: Strategic partnerships for an interoperable European and Global Data Space



Services Opportunities Access Data Use Cases User Corner About

## Copernicus Marine and EMODnet: a fruitful collaboration for the benefit of users

Home > News > Copernicus Marine and EMODnet: a fruitful collaboration for the benefit of users

- Copernicus Marine Service is a domain leader in satellite-derived data, modelling capability, forecasting and prediction and utilizes *in situ* marine data as validation for remote-sensing and as input to models;
- Copernicus Marine Service and EMODnet have strong collaboration at coordination and operational levels as two key, long-term marine data initiatives of the European Union with operational data flows, cross-validation of data, joint events, use cases, etc.



# Fourth EMODnet cycle (2021-2023) – focus on centralisation

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Phase I - Limited sea basins														
				Phase II - Low resolution all basins										
								Phase III - Multi-resolution						
												Phase IV - Centralisation		

Lead Partner



Contributing service providers



# Fourth EMODnet Secretariat cycle (2022-2023 ... once renewable 2024-2025)

- **European Marine Observation and Data Network (EMODnet)**

- **Consolidation:** remaining operational and maintaining all other essential services and tasks
- **Further expansion of operational service:** data, products and geographic coverage
- **Focus on supporting centralisation process,** guide transition towards fully integrated online presence via EMODnet Central Portal
  - **Resulting in more user-friendly, useful and fit-for-purpose EMODnet**
  - **Will be more coherent, efficient and easier to manage**

- **European Atlas of the Seas**

- *Build on foundations established over the past four years*
- **Further development of the Atlas:** technical features and content upgrades
- **Expand its impact across Europe and beyond**
  - *Integrate Atlas in formal and informal Ocean Literacy curricula*
  - *Establish Atlas as a communication tool*

- **EC Ocean Observing initiative**

- *Dedicated support to DG MARE to advance activities in its work programme related to European Ocean Observing*
- *Assess the benefits of the EMODnet Sea-basin Checkpoints*

# Team



Jan-Bart Calewaert



Kate Larkin



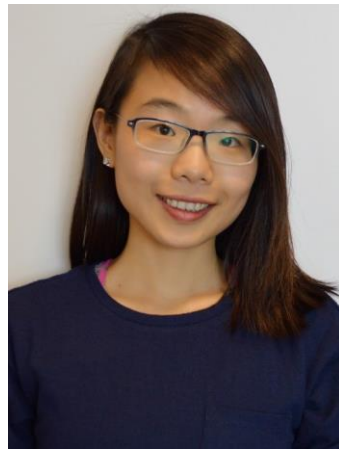
Conor Delaney



Tim Collart



Nathalie Tonné



Xiaoyu Fang



Nathalie  
Van Isacker

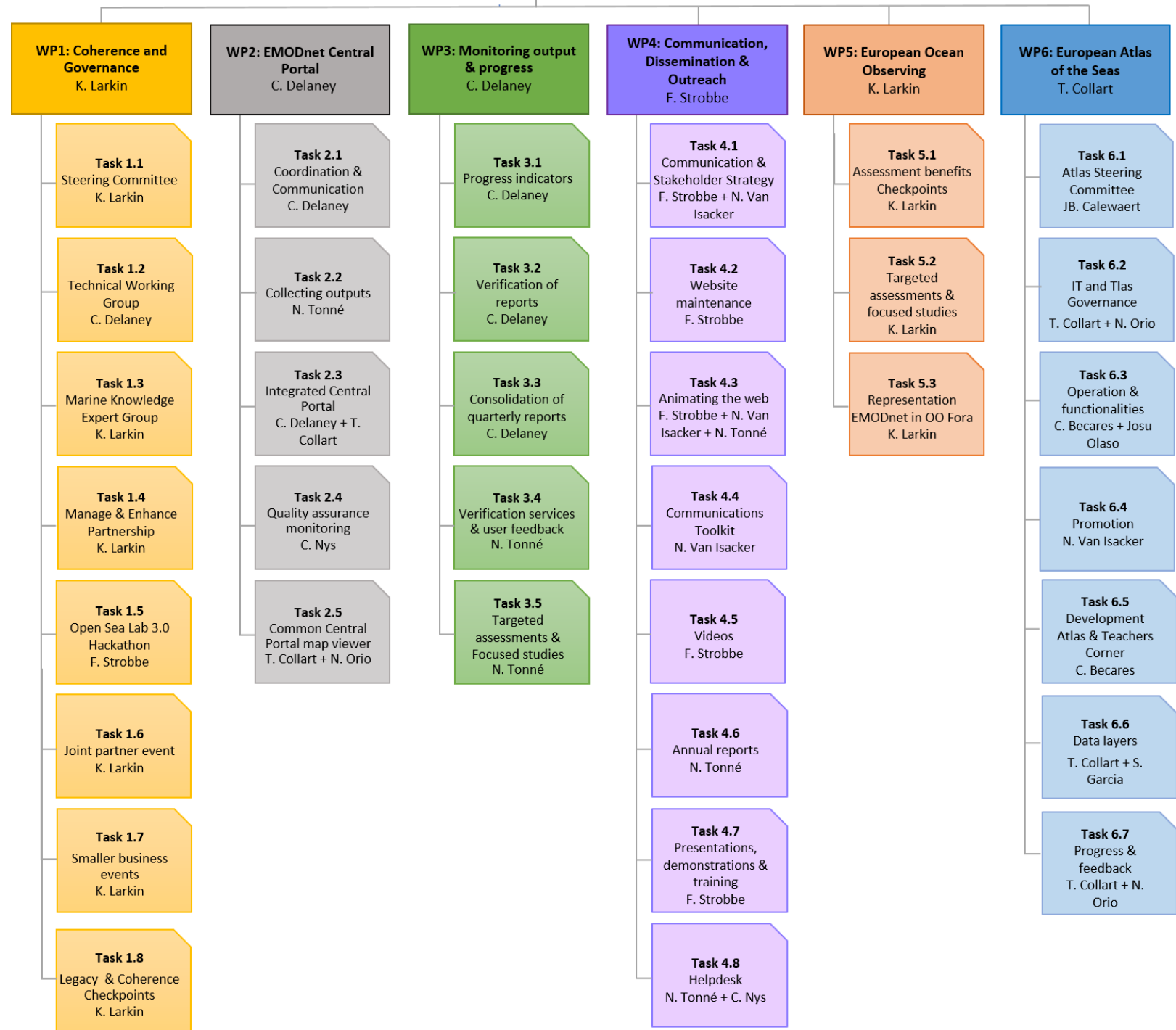


Cécile Nys



Francis Strobbe

# 6 key work strands



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## Key upcoming important milestones and Deliverables

- Completion of EMODnet Centralisation process → **end 2022!**
- Four EMODnet-4-**business events** in **2022-2023**
- Third EMODnet **Open Sea Lab Hackathon** → **Spring 2023!**
- Third EMODnet **Open Conference & Jamboree** → **Autumn 2023!**
- **Ocean Observing**: focussed study and targeted assessment – supporting the EU Initiative on Ocean Observing – Sharing responsibility
- **European Atlas of the Seas**: New services and GIS web-based Atlas improvements

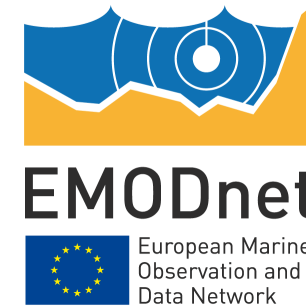
## Key messages

**EMODnet today** is a trusted EU public service for marine data, information and knowledge, in Europe and beyond;

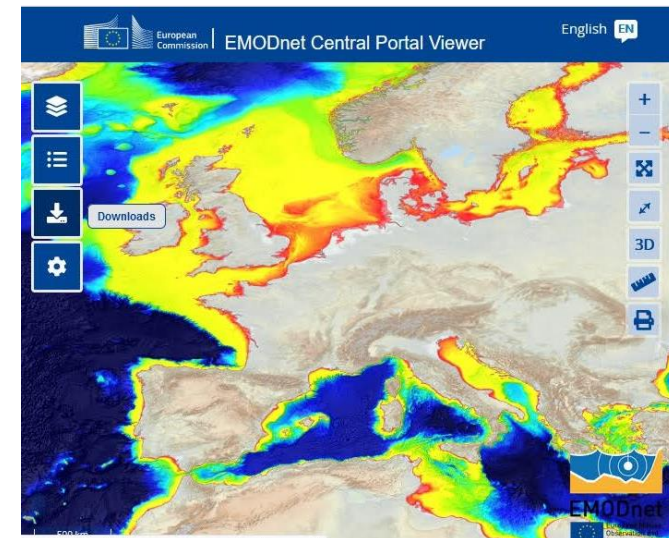
### EMODnet new phase (by end 2022)

will complete the **consolidation** stage to deliver a **fully integrated data discovery, access and visualization service** with:

- *A simplified single entry point to all data/data products;*
- *A data cache approach more suited to today's data driven world towards next phase ocean data and information management;*
- *an enhanced data discovery service using a central metadata catalogue and machine-machine search engine;*
- *a central map viewer;*
- *interoperability across the digital (marine data) commons.*



[emodnet.ec.europa.eu](https://emodnet.ec.europa.eu)



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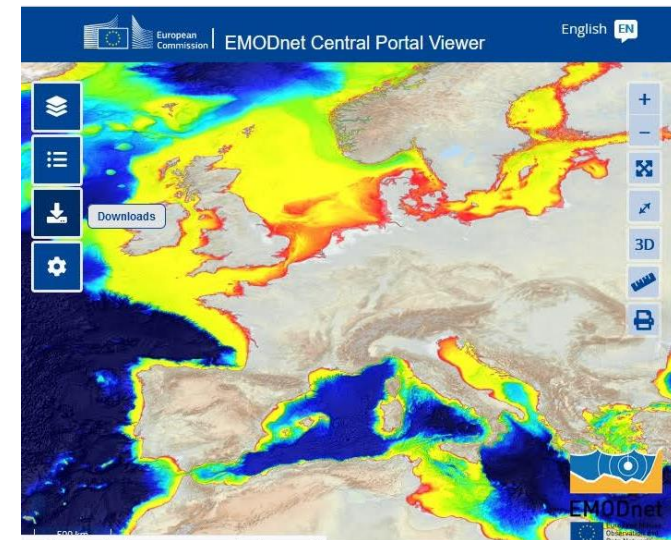
# Key messages

EMODnet new phase (by 2023) will:

- Further **expand and diversify the EMODnet “offer”** including partnerships with citizen science, industry & regions beyond Europe;
- Further **connect with actors across the marine knowledge value chain**, including the **EU and global Ocean Observation capacity**;
- Continue to **strengthen strategic EU partnerships** e.g., with Copernicus Marine Service to ensure European marine data services are “future-fit” for the EU marine data space, the EU Green Deal Space, the Digital Twin Ocean and Destination Earth.



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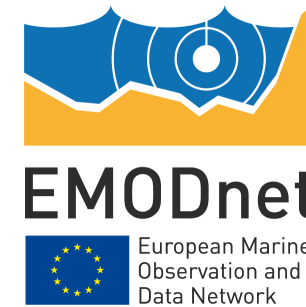




# Key messages

In coming decade, EMODnet by 2030 will:

- Strengthen the **implementation of the Digital Commons** within Europe and beyond;
- **Forge new collaborations worldwide** (at regional and global levels) to move towards a fully interoperability data sharing framework at Ocean Basin level e.g., the All Atlantic Data Space, and across the Global Ocean Data Ecosystem;
- **Expand its contribution to the UN Ocean Decade and its partnership with IOC-UNESCO, IODE and other actors**, including:
  - ✓ *A EMODnet UN Ocean Decade Coordination Group;*
  - ✓ *EMODnet key recommendations and principles for supporting the Data Vision Under the UN Ocean Decade;*
  - ✓ *EMODnet input to UN Ocean Decade Actions, Collaborative Centres (e.g., for Ocean Prediction);*
  - ✓ *EMODnet leadership in Ocean Best Practices;*
  - ✓ *Enhance EMODnet contribution to demonstrations and training in ocean data and information stewardship;*
  - ✓ *Alignment and optimized tagging of EMODnet data for UN 2030 Sustainable Development Goals, Essential Ocean / Biodiversity Variables etc. **And much more!***



[emodnet.ec.europa.eu](https://emodnet.ec.europa.eu)



United Nations  
Educational, Scientific and  
Cultural Organization

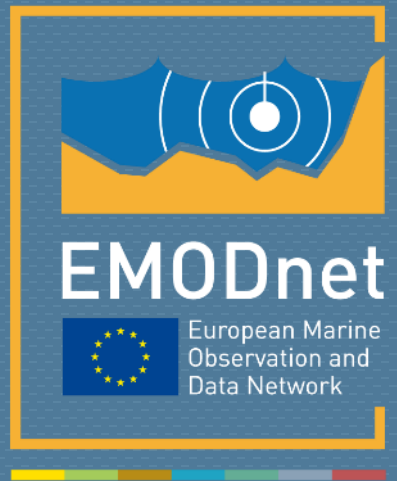
Intergovernmental  
Oceanographic  
Commission

2021-2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development



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