Powering the European Marine Data Ecosystem

For a digital and green future

EMODnet OPEN CONFERENCE 2023

EMODnet
European Marine Observation and Data Network

Townhall: EMODnet for the Blue Economy

Co-Chairs:
Luca Marangoni (CINEA)
Séverine Renault (AND International)

Townhall: EMODnet for the Blue Economy

House-keeping rules (LM)

- **Fully Physical (No Hybrid):** Please note that this townhall meeting is fully physical, and we won't have a virtual or hybrid component. All participants are expected to be present in person.

- **Time Management:** To ensure we cover all topics, we will adhere to the schedule. Each speaker will have a limited time to present.

- **Cell Phones and Electronics:** Please silence your cell phones and electronic devices to minimize disruptions.

- **Speaking Protocol, Microphone Usage and Question Submission:** Raise your hand for plenary if you wish to speak, and we will provide a microphone for you. Please wait your turn and be mindful of the time.

- **Slido Usage:** While we encourage in-person discussions, we may utilize digital platforms like Slido or Mural for interactive activities. We'll provide instructions once the Slido questions come up.

Townhall: EMODnet for the Blue Economy

Key facts and expected outputs (LM)

- **Date and Timing:** 29 November 2023, 16:45-18:00

- **Key Objectives:**

The primary objective of each Townhall is to gather valuable stakeholder feedback and recommendations regarding the future evolution of EMODnet content and services for the period up to 2030 and beyond.

- **Reporting to Plenary:**

The insights and key messages obtained from each Townhall will be collated and presented to the Plenary Session 5, Panel 2 “EMODnet and the Blue Economy” on November 30th by Alessandro Pititto (COGEA – Bip group; Coordinator, EMODnet Human Activities)

Townhall: EMODnet for the Blue Economy

Agenda (SR)

16:45-17:00 Townhall Introduction and ice-breakers

17:00 – 17:08: EMODnet for the Blue Economy

Presentations on how EMODnet contributes to the blue economy sector and the blue economy sector can share data with EMODnet:

- Blue Economy data sharing with EMODnet, Sissy Iona HCMR (examples of private sector data sharing with EMODnet Data Ingestion)
- QUIETMED projects linking with EMODnet, Noelia Ortega Ortega (CEO, Directora General, Centro Tecnológico Naval y del Mar; CTN-Marine Technology Centre)

17:08-17:50: Plenary Discussions

During the plenary discussion, participants from the private sector (or those closely connected to it) will be invited to share their insightful stories, followed by a Q&A session from fellow participants. The session will be structured in three rounds of key topics:

- How does the existing EMODnet data portfolio and service serve the Blue Economy?
- EMODnet service evolution for the Blue Economy
- Data sharing by the blue economy sector

17:50-18:00 Reporting back to plenary and future outlooks

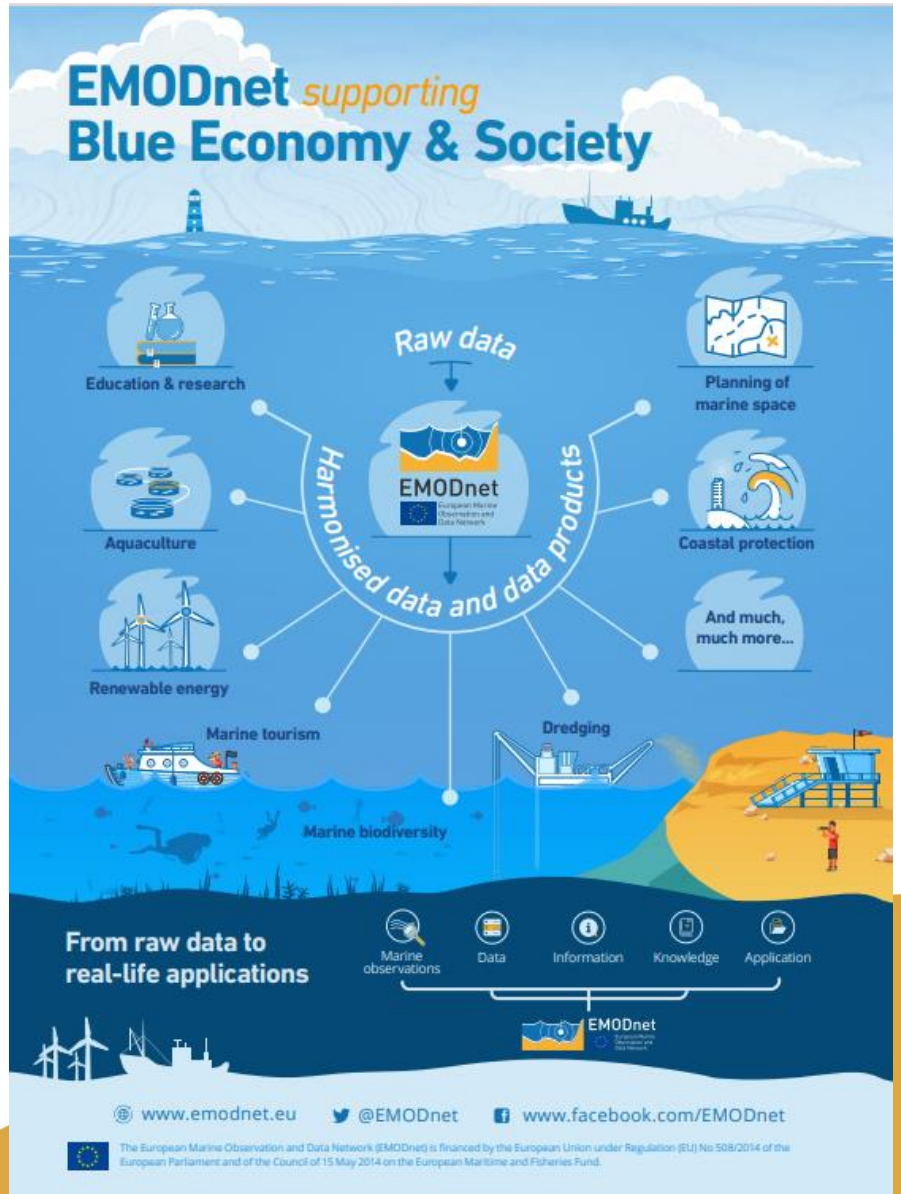
18:00: Closing of the townhall

Townhall: EMODnet for the Blue Economy

Townhall introduction

Luca Marangoni
(Deputy Head of Unit for Sustainable Blue Economy - CINEA)

- The network
- Main user groups
- Other projects closely related to EMODnet and the blue economy



Townhall: EMODnet for the Blue Economy

EMODnet - Human Activities

Objectives

- **Facilitate access** to existing marine data on activities carried out in EU waters
- **One single-entry point**
- **Harmonized data** from various sources across EU
- **Free downloadable** access
- Show **temporal variation** of human activities

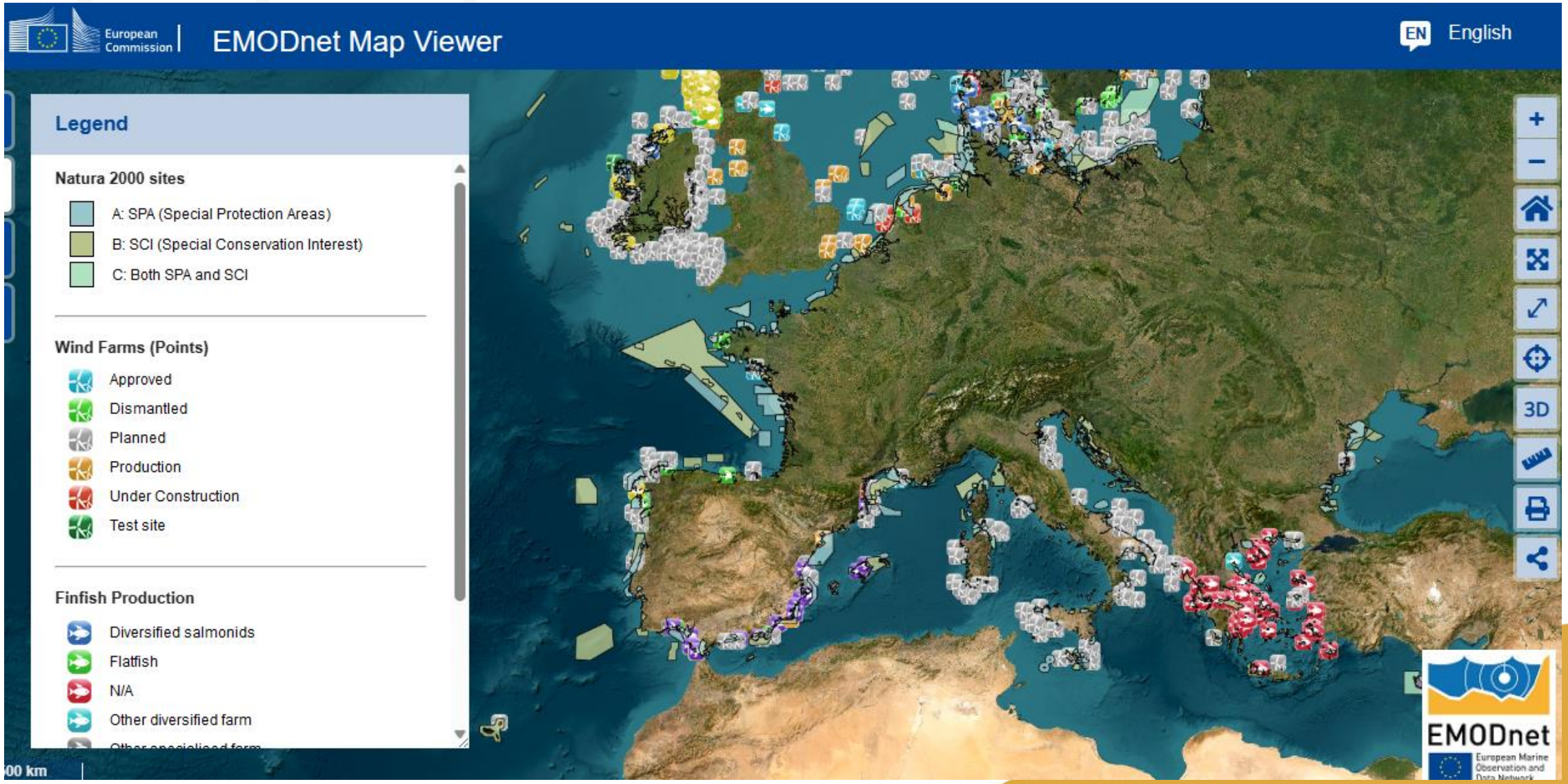
Key services

- 18 Themes
- > 40 Datasets

- Aggregate Extraction
- Algae Production
- Aquaculture
- Cables
- Cultural Heritage
- Desalination
- Dredging
- Energy
- Environment
- Fisheries
- Oil and Gas
- Main Ports
- Maritima Spatial Planning
- Military Areas
- Other Forms of Area Management/Designation
- Pipelines
- Shipping Density
- Waste Disposal

Townhall: EMODnet for the Blue Economy

EMODnet - Human Activities



Townhall: EMODnet for the Blue Economy

Ice breaker questions

What sector do you represent?

SCAN ME

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slido

What sector do you represent?

ⓘ Start presenting to display the poll results on this slide.

Townhall: EMODnet for the Blue Economy

Ice breaker questions

Which Blue Economy sectors are you most interested in hearing about to advise the discussion?

SCAN ME

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slido

Which Blue Economy sectors/ activities are you most interested in hearing about?

ⓘ Start presenting to display the poll results on this slide.

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EMODnet Data Ingestion: EU public service towards FAIR marine data sharing

Sissy Iona, HCMR, Greece

EMODnet Ingestion service

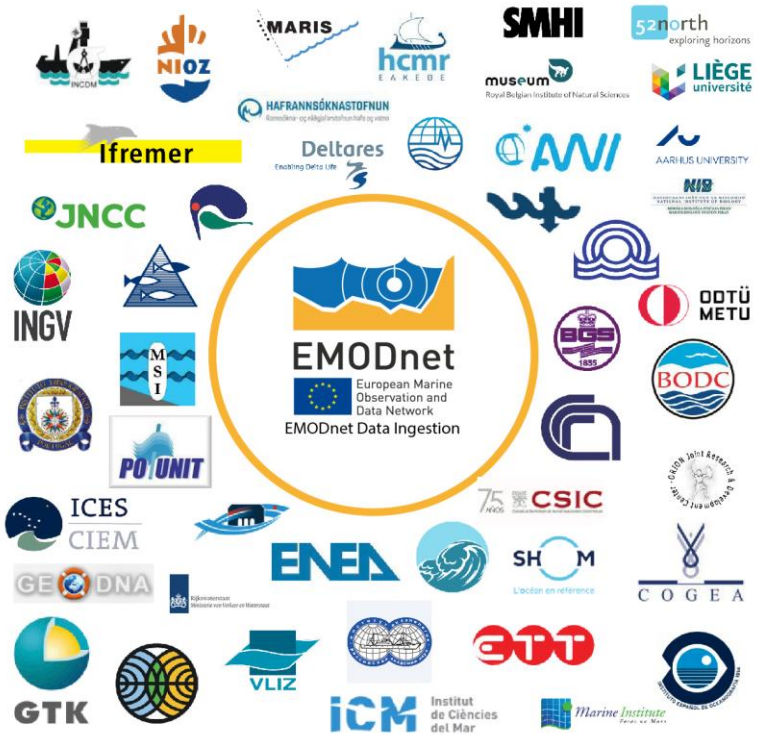
A free and open service to everyone for sharing and ingestion of marine data into EMODnet

- **The Network:** 50 Data Centres, specialized marine centres, and all EMODnet thematic coordinators ensuring provision of trustable data and products

BATHYMETRY

BIOLOGY

CHEMISTRY



GEOLOGY

HUMAN ACTIVITIES

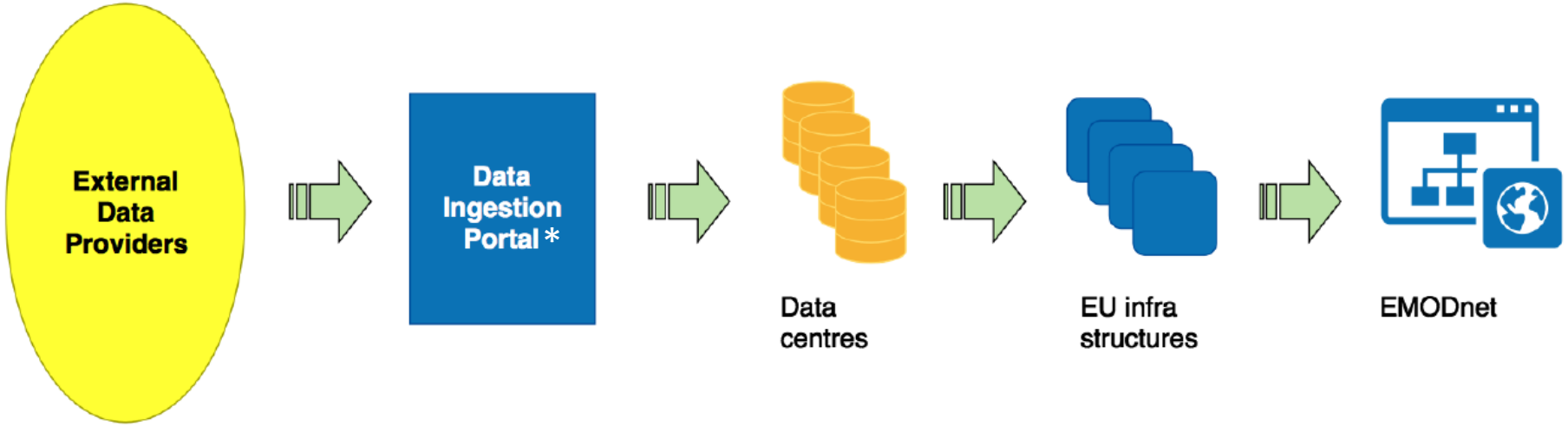
PHYSICS

SEABED HABITATS

Data Ingestion process

Streamlining the integration of data sources into EU data infrastructures and EMODnet

- Use of **standards & best practices** for making marine data Findable, Accessible, Interoperable and Re-usable (**FAIR**)



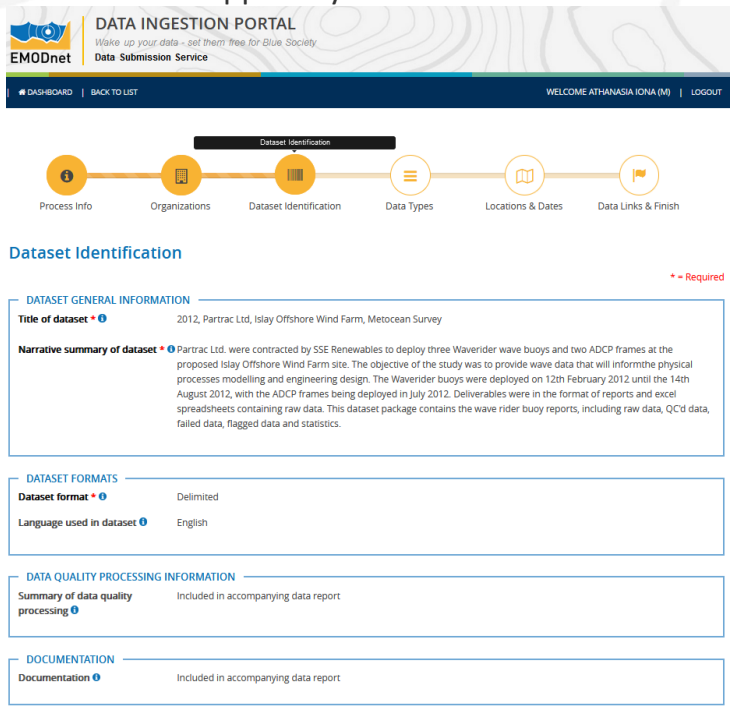
- Automatic exchanges established with the "**SeaDataNet/SEANOE data citing service**" (*scientific data*)
- Automatic exchanges are almost finalized with the "**The Crown Estate (TCE) Marine Data Exchange (MDE)**" (*MDE stores, manage, share data of offshore renewable energy projects in UK North Sea sector*)

* Migration to Central Portal, 2024

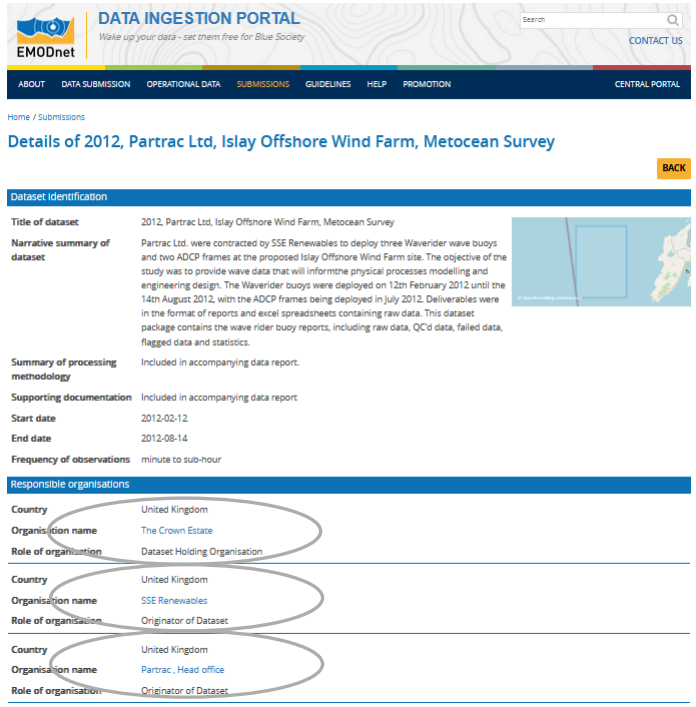
Ingestion process

A step by step approach to make your data available, visible and acknowledged

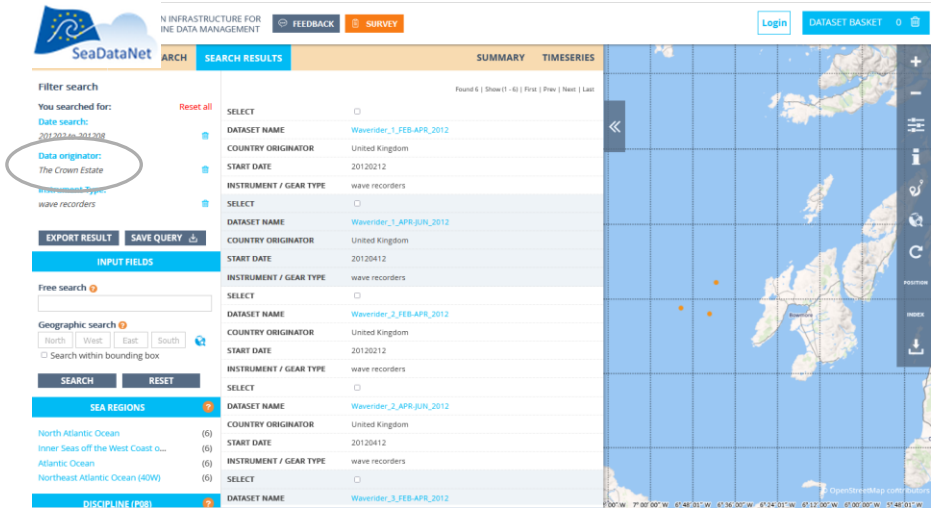
On-line submission form
with support by the Data Centres



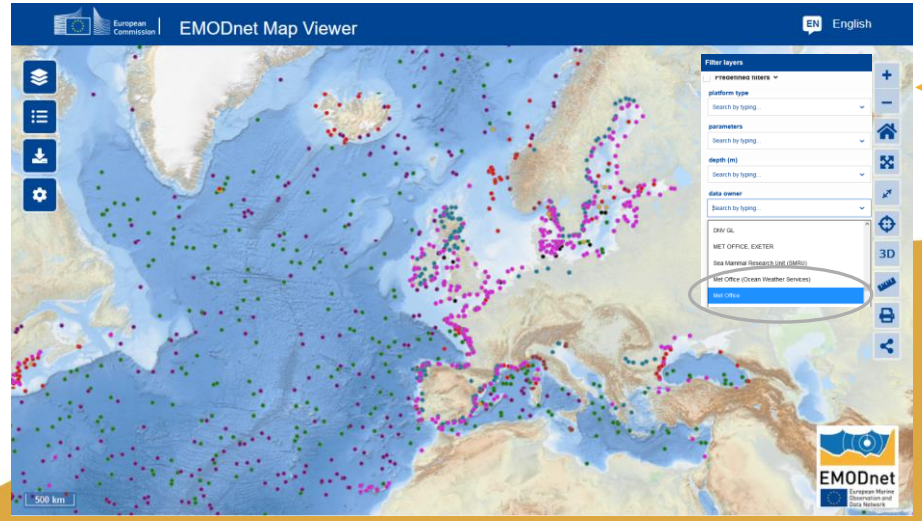
Publication of data 'as-is'



Integration into EU infrastructures



Integration into EMODnet Central Portal



- Transparent **ownership** of the data
- **Acknowledgments** to the source

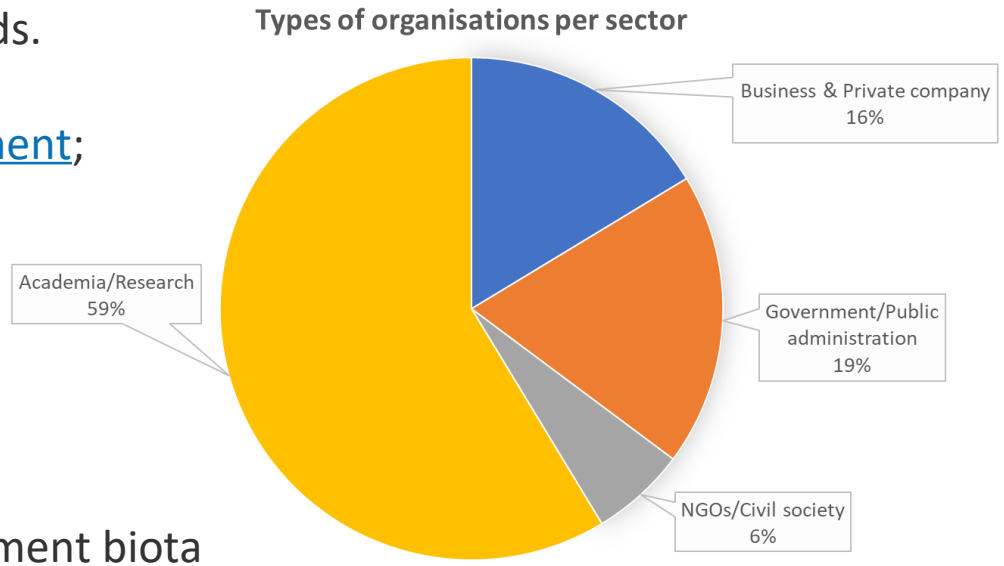
Submissions from the private sector

Examples of monitoring data from Offshore Renewable Energy sector

- **MEP-NSW Fish community**: Fish community surveys for the Monitoring and Evaluation Programme of the North Sea OWEZ wind park, Netherlands.
  - Originator: NoordzeeWind BV
  - Holding Organisations: Rijkswaterstaat Water, Traffic and Environment; Deltares

- **Partrac Ltd**, Islay Offshore Wind Farm, Metocean Survey, UK.
  - Originators: SSE Renewables; Partrac, Head office
  - Holding Organisation: The Crown Estate

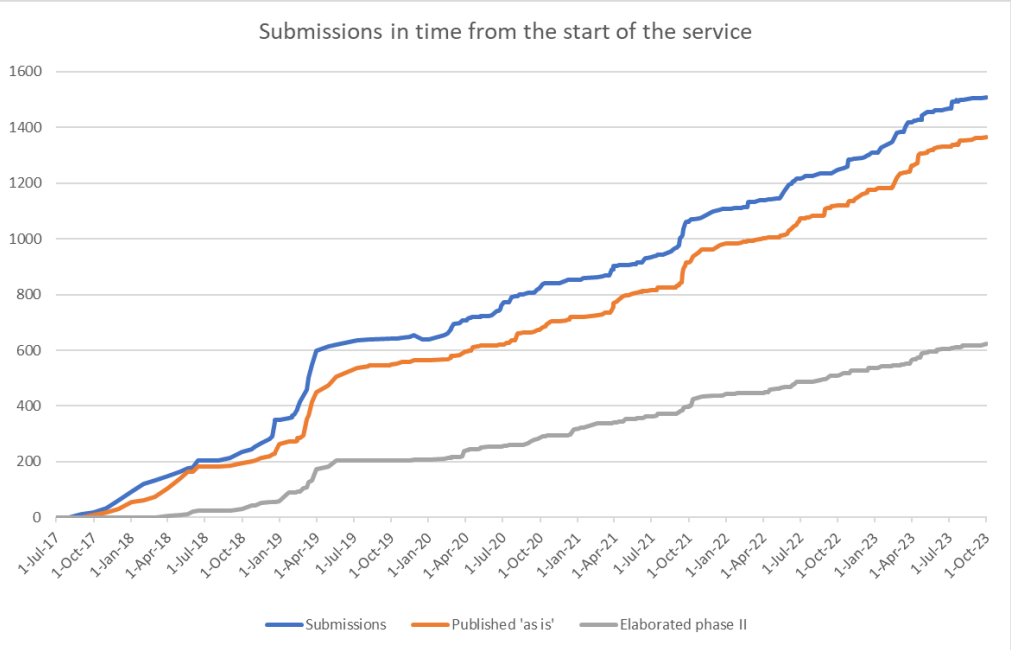
- **Fugro GeoConsulting Limited,** Geotechnical Surveys, UK: rock & sediment biota data.
  - Originators: Centrica Energy Renewable Investments; Fugro GeoConsulting Ltd
  - Holding Organisation: The Crown Estate



Perspectives for further increase of available data

On going collaborations and activities - examples

- Engagement with **Citizen Science** groups and initiatives (marine litter citizen science data from ERASUM MARIS)
- Accessing the availability of **coastal and offshore licensed data** (renewable energy, aquaculture)
  - Workshop with representatives of stakeholders and EMODnet Ingestion members in 2024
- Dialogue with **Renewables Grid Initiative** (RGI) for future collaboration
- Organizing **Workshops, webinars, training** of potential data providers from research projects



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Thank you for your attention

Sissy Iona

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emodnet.ec.europa.eu

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The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund and its predecessor, Regulation (EU) No. 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.

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EMODnet European Marine Observation and Data Network

EMODnet for managing underwater noise environmental impact.
Quietmed and Quietseas projects.

Noelia Ortega, CEO, CTN- Marine Technology Center
www.ctnaval.com

EMODnet contributes to the blue economy sector

Work together to observe the sea, process the **data** according to international standards and make that information **freely available** as interoperable data layers and data products

Blue economy activities may generates underwater noise:

- Maritime traffic
- Dredging
- Pile-drivers
- Sonar
- Airguns
- Acoustic deterrents
- Explosives

- Underwater noise is the Descriptor 11 of the Good Environmental Status of our seas established by the Marine Strategy Framework Directive (MSFD).

- Anthropogenic sounds are classified as

  D11C1. Loud, low and mid frequency impulsive sounds: short duration such as seismic surveys and piling for wind farms and platforms.

  D11C2. Continuous low frequency sound: long lasting sounds such as such as dredging, shipping and energy installations

- .

The Blue Economy sector can share data with EMODnet

EMODnet Sharing data

D11- Criteria 1 " Distribution in time and place of loud, low and mid frequency impulsive sounds"

QUIETMED PROJECT
https://quietmed2.eu/

Development of the joint register for Descriptor 11C1 (underwater impulsive noise)

D11- Criteria 2 "Continuous low frequency sound"

QUIETSEAS PROJECT
https://quietseas.eu/

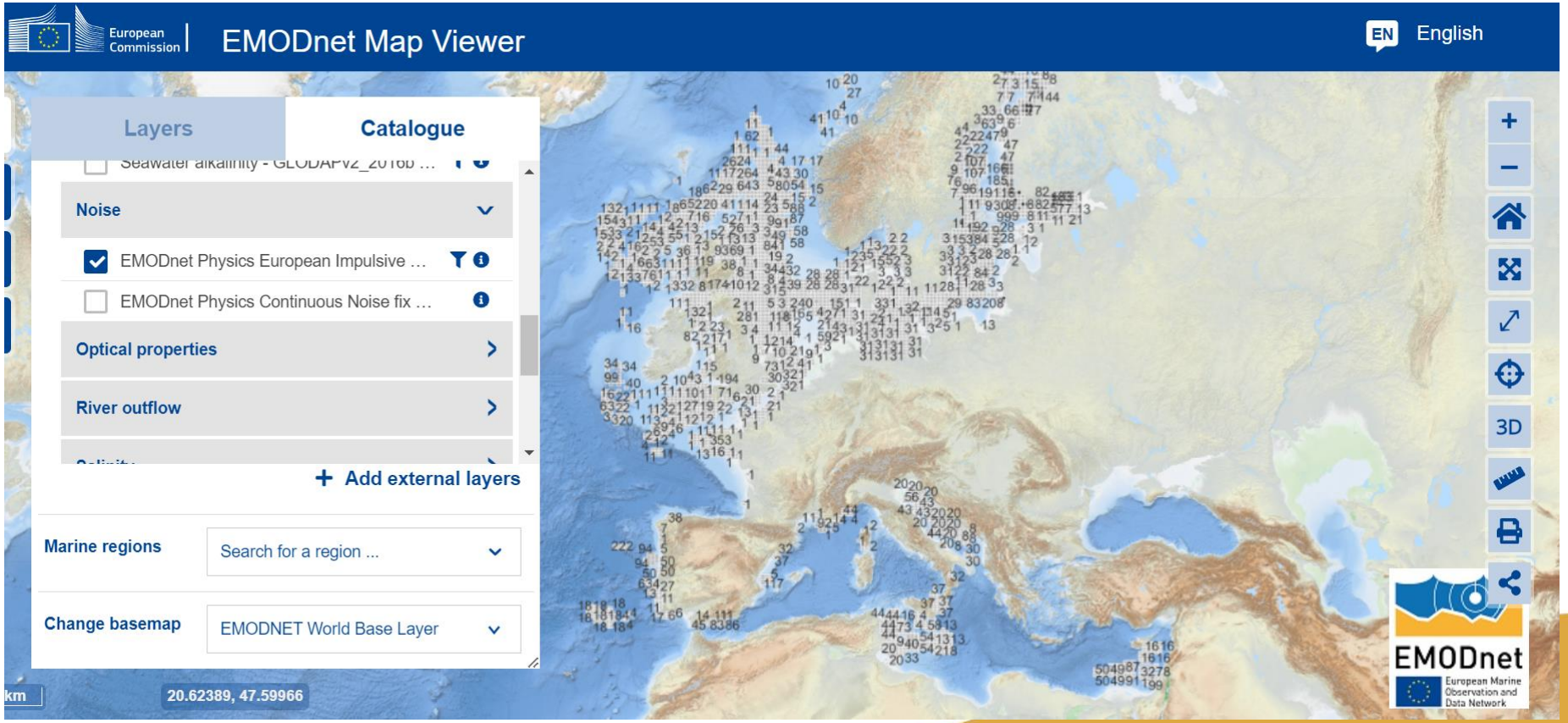
Proposal of common impact indicators for D11C1 and D11C2 and development of tools for their evaluation.

EMODNET gathers noise data

EMODnet Physics

D11C1. Loud, low and mid frequency impulsive sounds:

- Pile-drivers
- Sonar
- Airguns
- Acoustic deterrents
- Explosives

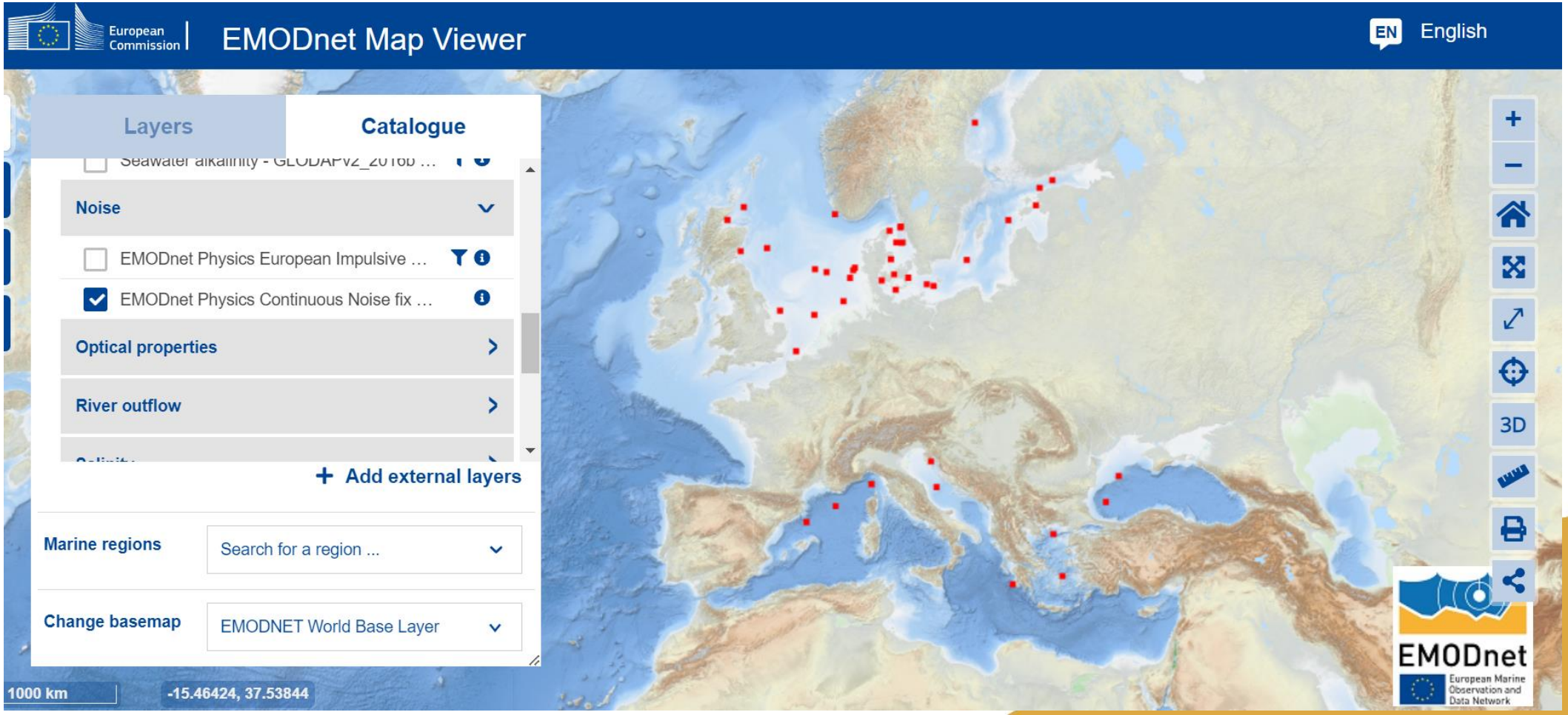


EMODNET gathers noise data

EMODnet Physics

- **D11C2. Continuous low frequency sound:**

Long lasting sounds such as such as dredging, shipping and energy installations

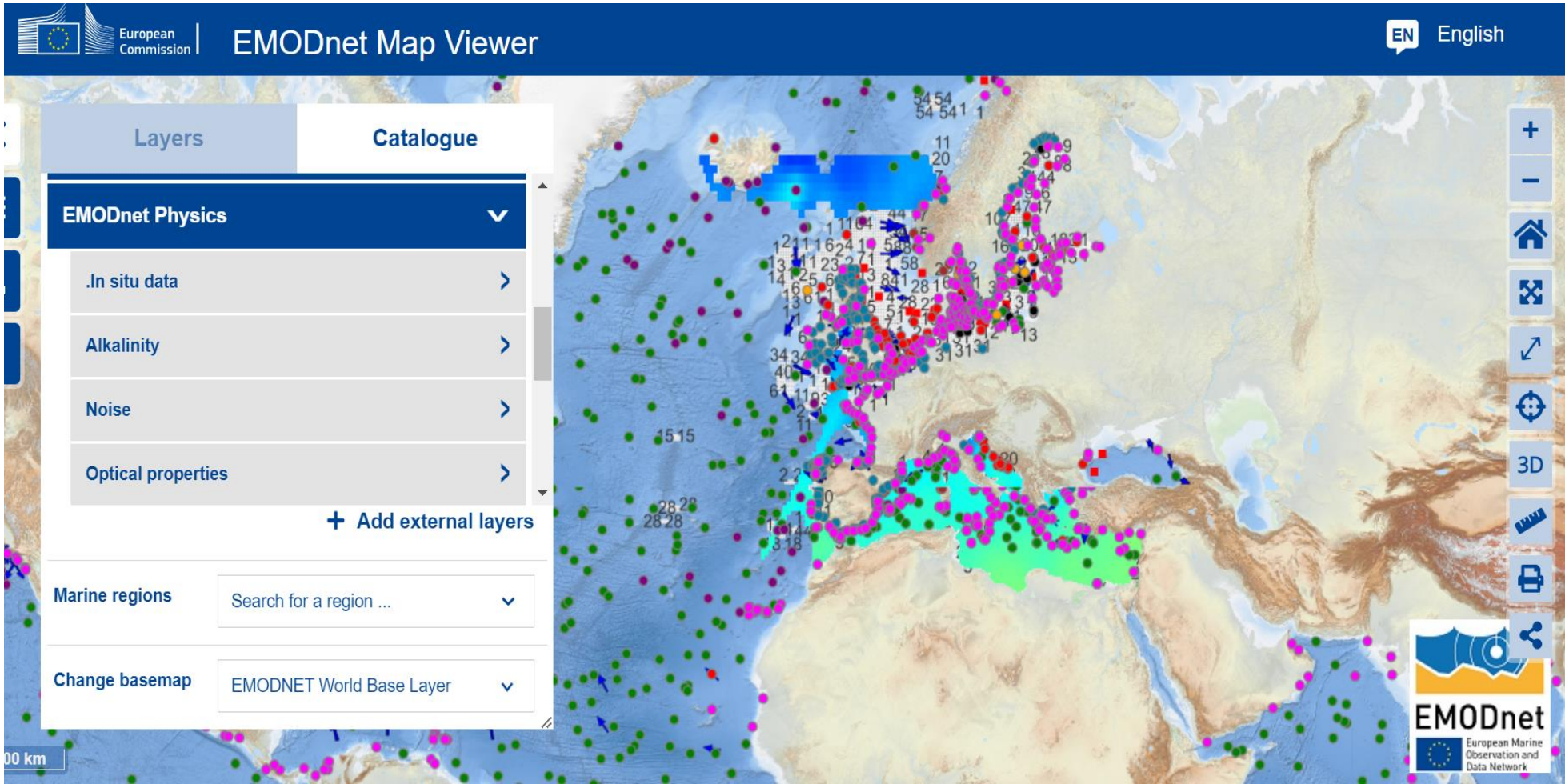


EMODnet Physics and Data

Data from EMODNET physics for modelling building noise maps

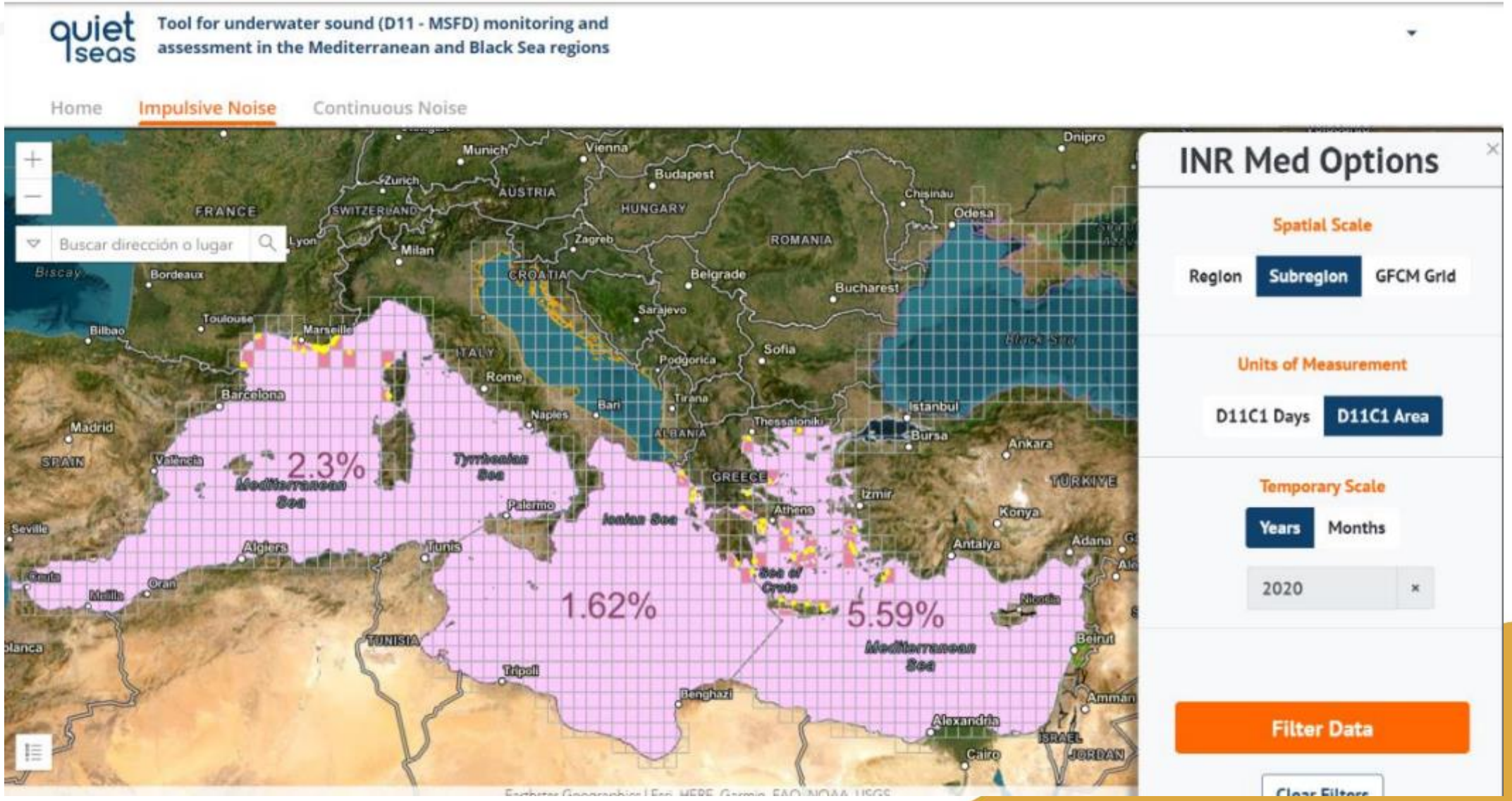
Products

- Temperature & Salinity
- Sea Surface Currents
- Sea Level
- Wave
- River Runoff
- Water Clarity
- Noise Events



Products using EMODnet Physics and Data

Underwater noise register for impulsive noise



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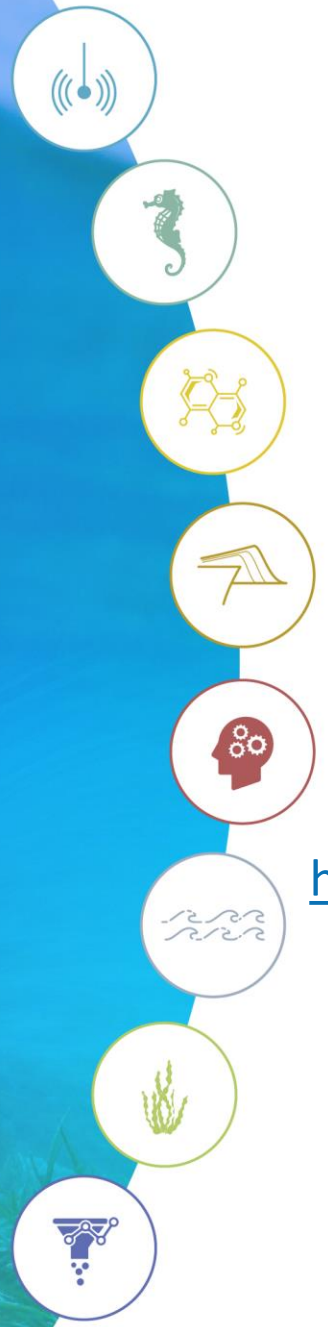

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Thank you for your attention

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Townhall: EMODnet for the Blue Economy

Plenary discussion (SR)

How many of you in the room are from the private sector?

How does the existing EMODnet data portfolio and service serve the Blue Economy?

- Do you use or are you aware of Blue economy companies and organisations using EMODnet data?
- Which datasets and data services?
- What for (planning, monitoring, ..)?
- What have they achieved thanks to EMODnet data?

EMODnet service evolution for the Blue Economy

- Do you perceive changes in your environment that may change your needs as regards EMODnet services?
- Which changes?
- How will that impact your needs?

Data sharing by the blue economy sector

- Have you or do you know Blue economy companies which have shared data with EMODnet?
- What motivated you/them?
- What do you think could incentivize Blue Economy stakeholders to share their data?

Townhall: EMODnet for the Blue Economy

Plenary discussion round 1 (SR)

How does the existing EMODnet data portfolio and service serve the Blue Economy?

- Do you use or are you aware of Blue economy companies and organisations using EMODnet data?
- Which datasets and data services?
- What for (planning, monitoring, ..)?
- What have they achieved thanks to EMODnet data?

Townhall: EMODnet for the Blue Economy

Plenary discussion round 2 (LM)

EMODnet service evolution for the Blue Economy:

- Do you perceive changes in your environment that may change your needs as regards EMODnet services?
- Which changes?
- How will that impact your needs?

Townhall: EMODnet for the Blue Economy

Plenary discussion round 3 (SR)

Data sharing by the blue economy sector:

- Have you or do you know Blue economy companies which have shared data with EMODnet?
- What motivated you/them?
- What do you think could incentivize Blue Economy stakeholders to share their data?

Townhall: EMODnet for the Blue Economy

Reporting back to plenary and future outlooks

What recommendations do you have for enhancing EMODnet services?

SCAN ME

https://app.sli.do/event/qmh4KdM1cRpJocGCvq23d9/embed/polls/d2ba652a-8e66-4b97-ba3b-380d7f6cb585

slido

What recommendations do you have for enhancing EMODnet services for the blue economy?

ⓘ Start presenting to display the poll results on this slide.

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