EMODnet and EU Marine Directives (MSFD and MSPD)

18th EMODnet Steering Committee
23 May 2023

EMODnet Secretariat

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EMODnet: Marine Strategy Framework Directive (MSFD)

EMODnet data and data products supporting MSFD

The EMODnet diverse data / data product offer includes a range of marine environmental data that supports Member States e.g., biodiversity (Descriptor 1), marine litter (and Regional Sea Convention Assessments, not discussed here)

In 2021 a user catalogue of MSFD relevant data/data products was jointly produced by EU marine data services EMODnet and Copernicus Marine Service (pilot activity).

EMODnet and MSFD Working Groups / Technical Groups
Examples of ongoing EMODnet contributions:
- EMODnet Chemistry: TG Marine Litter
- EMODnet Biology and Seabed Habitats: Biological diversity (pelagic, benthic) and Seafloor integrity
- EMODnet Physics: TG Underwater Noise
- EMODnet Secretariat, thematics and data ingestion links with MSFD DIKE, TG Data

EMODnet wider MSFD /marine monitoring dialogues

EMODnet Secretariat advisory role with ICES for marine data flows into the European Topic Centre: Biodiversity and Ecosystems (EEA)

EMODnet: Marine Strategy Framework Directive (MSFD)

Future Look:

In exchanges with EEA and ICES (in context of EEA-ETC and MSFD WG DIKE) EMODnet has been proposed to directly contribute to:

- MSFD data collection streamlining e.g., contribute to data formats/templates
- MSFD data harmonisation
- MSFD Aggregation and assessment

Q: How can the EMOD-network better support MSFD data management and data flows?
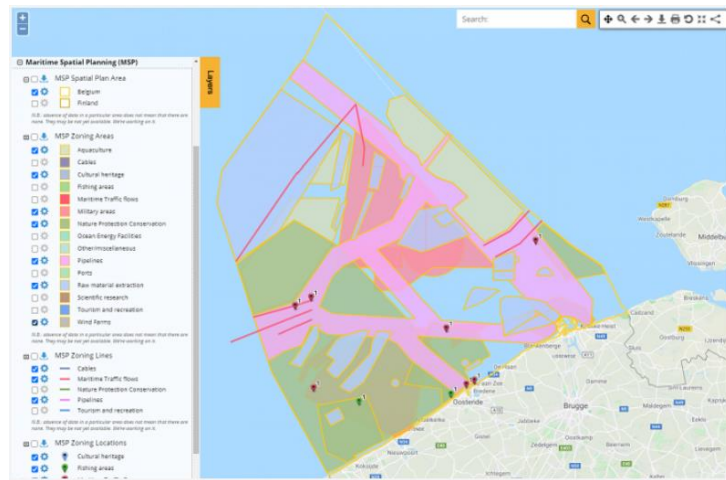
EMODnet: A **EU focal point** for harmonised data and knowledge to support Maritime Spatial Planning

> «*EMODnet Human Activities is a focal point for EU Member State Marine Spatial plans and in the fuiture this can be expanded to include MSP data products, for examples at the European level*».
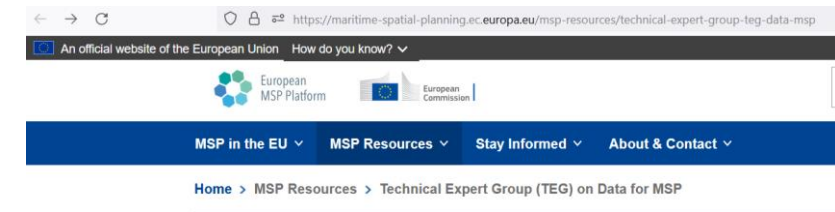> **Joni Kaitaranta, HELCOM**

Data for MSP

MSP Spatial Plan Area for Belgium, EMODnet Human Activities

EMODnet Human Activities
Map viewer and data visualization
(centralising by end 2022)

marine spatial planning global

European MSP Platform

o **EMODnet bathymetry, biology, chemistry, geology, physics, seabed habitats:**
  o High resolution transboundary *in situ* marine environmental and human activities data, essential for climate-smart MSP and offering trusted multi-disciplinary data to underpin cumulative impact assessments;

o **EMODnet Human Activities:**
  o Wind farm database and other data and information related to MSP;
  o National (EU MS) Maritime Spatial Plans (=Output Data);
  o works in close co-operation with Regional Sea Conventions, and the EC JRC Technical Group (TG) on Data for MSP towards a technical solution for harmonising EU MSP within EMODnet.

EMODnet
European Marine Observation and Data Network

EMODnet: Marine Spatial Planning Directive (MSPD)

Technical Expert Group (TEG) on Data for MSP

Technical Expert Group (TEG) on MSP data[*] (April 2020 onwards)

- Working on the harmonisation of Member State plans and providing a basis for uploading MSPs in EMODnet (Proposal September 2021)

- EMODnet Human Activities has direct input to TEG MSP data (including COGEA, CETMAR)

- Recommended 3 technical solutions/models for National MSP digital resources (including EMODnet 'hybrid' model, to facilitate the development of the EU harmonised MSP Data layer

- EMODnet hosts National Maritime Spatial Plans (EMODnet Human Activities (partner CETMAR) lead MSP data activity to collect, harmonise and provide data to be uploaded to the EMODnet portal)

- Metadata standard for Marine Plans** (from TEG MSP data December 2022), in dialogue with EMODnet Human Activities

[*]https://maritime-spatial-planning.ec.europa.eu/msp-resources/technical-expert-group-teg-data-msp

**https://irishmarineinstitute.github.io/metadata-profile-for-marine-plans/index.html   AND

https://maritime-spatial-planning.ec.europa.eu/sites/default/files/7.msp_metadata_teg_presentation.pdf

EMODnet: Maritime Spatial Planning Directive (MSPD)

Technical Expert Group (TEG) on MSP data[*] (April 2020 onwards)

TEG MSP data are developing a Maritime Spatial Planning Data Framework (MSPdF)

- To facilitate the MSP data collection process an management.
- Initiated 2017, TEG sub-group established end 2021
- TEG MSP data MSPdF report is in final draft (sent to EU MSP Platform members and observers in mid April 2023): focuses on how to structure input (spatial) information and data for MSP process, monitoring and evaluation. The same framework could be used for setting up the monitoring and the evaluation of the operational plans
- <u>EMODnet</u> Physics and Human Activities are currently listed as <u>input spatial data sources.</u>

Maritime Spatial Planning Data Framework (MSPdF)

How to structure input data for MSP process, monitoring & evaluation

GRACIA, A., Norton, D., SEGATA, A., VERGEER, S., KRISTE, M., GOLO, V., RISSE, K., Fernández-Palacios, Y.

Produced by Technical Expert Group (TEG) on Data for MSP.

EUROPEAN COMMISSION

Interest and benefits of application of the MSPdF:

The use of the selected data clusters and checklists in the MSP process provides the following interests and benefits:

- Guides data collection
- Structure Input data
- Facilitates identification of data gaps
- Points and identify relevant information not previously included in MSP process
- First milestone for MSP input data harmonisation - improves interoperability (structure and proposed harmonisation data models and semantic code lists)
- Improves comparability of applied data collections
- Improves the analyses potential and results comparability
- Supports design for monitoring and evaluation

Figure 2. Interests and benefits of application of the MSPdF.

https://maritime-spatial-planning.ec.europa.eu/msp-resources/technical-expert-group-teg-data-msp

EMODnet: Maritime Spatial Planning Directive (MSPD)

Technical Expert Group (TEG) on MSP data

Maritime Spatial Planning Data Framework (MSPdF)

Email sent by José Luis Santiago Castro-Rial (CETMAR, EMODnet Human Activities lead for MSP data) to EMODnet Secretariat and DG MARE with questions on EMODnet's position/role on MSP data, for EMODnet SC consideration:

Q: What is the role of EMODnet in MSP data governance? Should EMODnet provide guidelines or other recommendations on this topic? Note: This focuses on MSP output data (National MS Plan) sharing

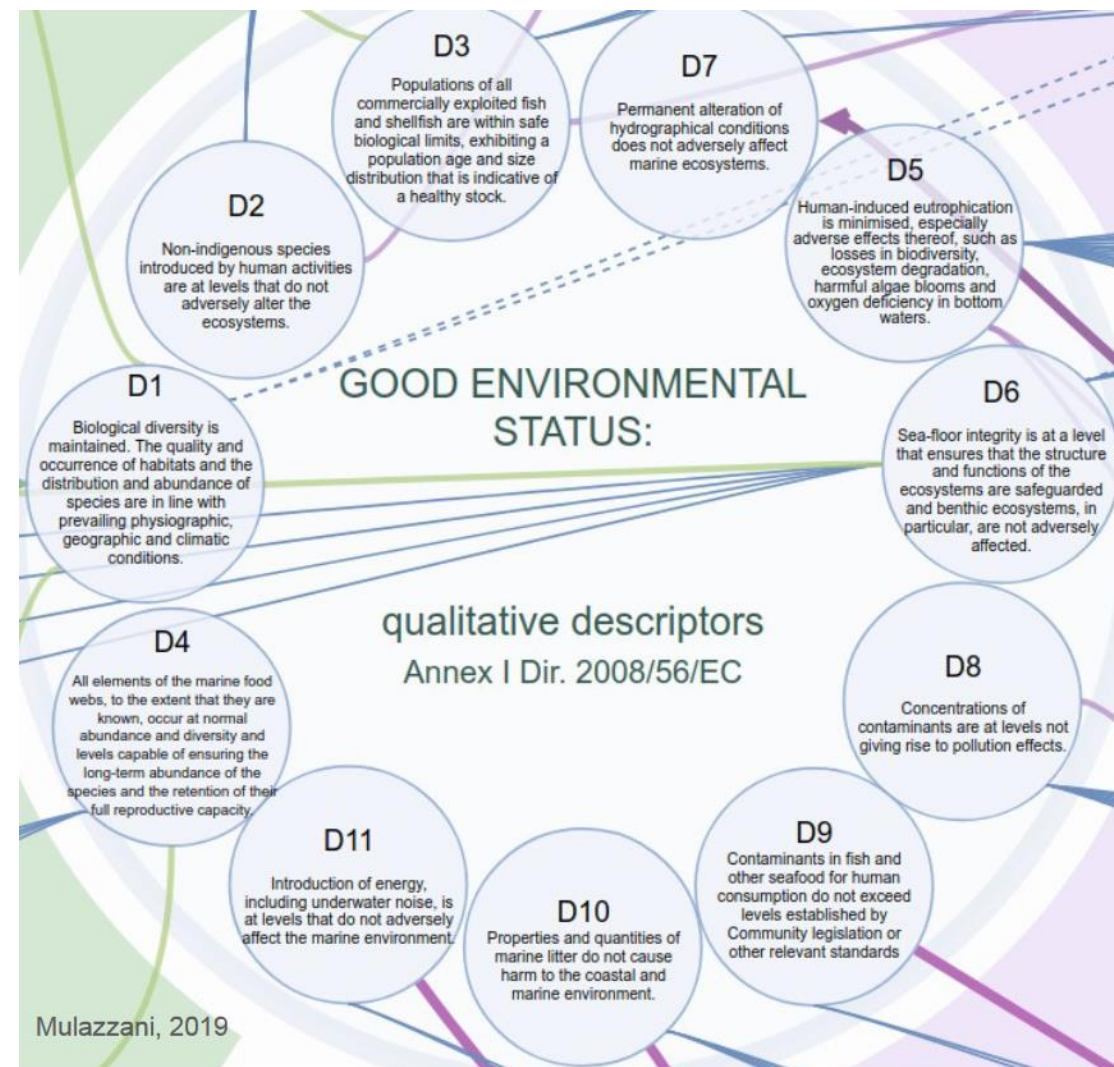**Q: What is the optimal data collection/work flow for MSP?**

push (by MS to EMODnet data ingestion), or

pull (EMODnet extracting data from national(MSDI)/RSC//EU MSP platform)? Should EMODnet provide recommendations or best practice on data or metadata? How about Validation/QC?

EMODnet: MSFD and MSPD

The MSP Directive explicitly requires an ecosystem-based approach (link to MSFD)

EMODnet is in a unique position offering both marine environmental and human activities data that can support both MSFD and MSPD, including incorporation of ecosystem-based approach into MSP processes AND MSFD data for supporting evaluation monitoring and adaptive management

TEG Data MSP sub-group MSFD & MSP data management has developed a survey on using MSFD to support coastal and marine planning processes. For sharing with all MSs (via MSP Assistance Mechanism) and results will be useful for EMODnet to consider.
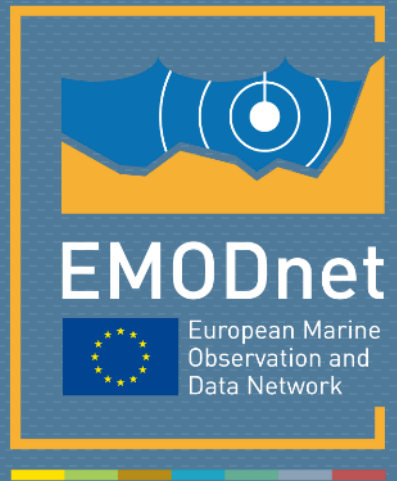
EMODnet: MSFD and MSPD

Q: How can EMODnet further optimise user access and experience for marine policy/assessment/management (e.g., MSFD and MSP) needs?

- Quality Control and provenance?
- Identifying best practices (facilitate connection between MSFD outputs and MSP process for EU MS e.g., mapping registries/vocabularies
- Central Portal user interface?

What questions/discussions could be bring forward to the EMODnet Open Conference 2023?

emodnet.ec.europa.eu

Your gateway to marine data in Europe

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