

# Monitoring litter on coastal area

*EMODnet data platform*

Alessandra Giorgetti (OGS)

Jan-Bart Callewaert (EMODnet)



---

Research and Innovation  
for blue jobs and growth  
in the Mediterranean Area

---

# Why do ocean (blue) data matter?

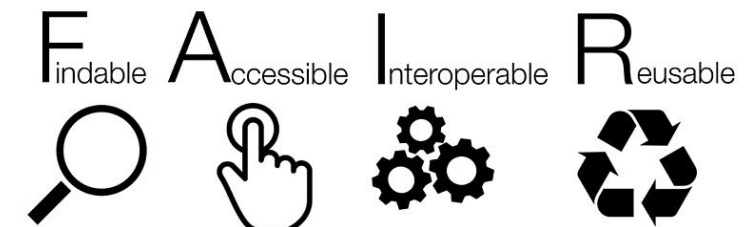
*Sound ocean data is indispensable if we want to tackle major global issues such as climate change, marine litter, illegal fishing or marine protection. It is also a bare necessity if we want to develop the blue economy and create sustainable economic growth in the EU.*

*Karmenu Vella, European Commissioner for Environment, Maritime Affairs and Fisheries*

#E00SConference18



- Collect data once, use many times.





# EMODnet is...

- > 120 institutions working together
- agreeing on standards, nomenclatures, baselines
- allowing users to search, view and download data
- creating data products
- free of charge, free of restrictions of use



## Green Paper Marine Knowledge 2020

from seabed mapping

## Marine knowledge 2020

MARINE DATA AND  
OBSERVATION FOR SMART  
AND SUSTAINABLE GROWTH



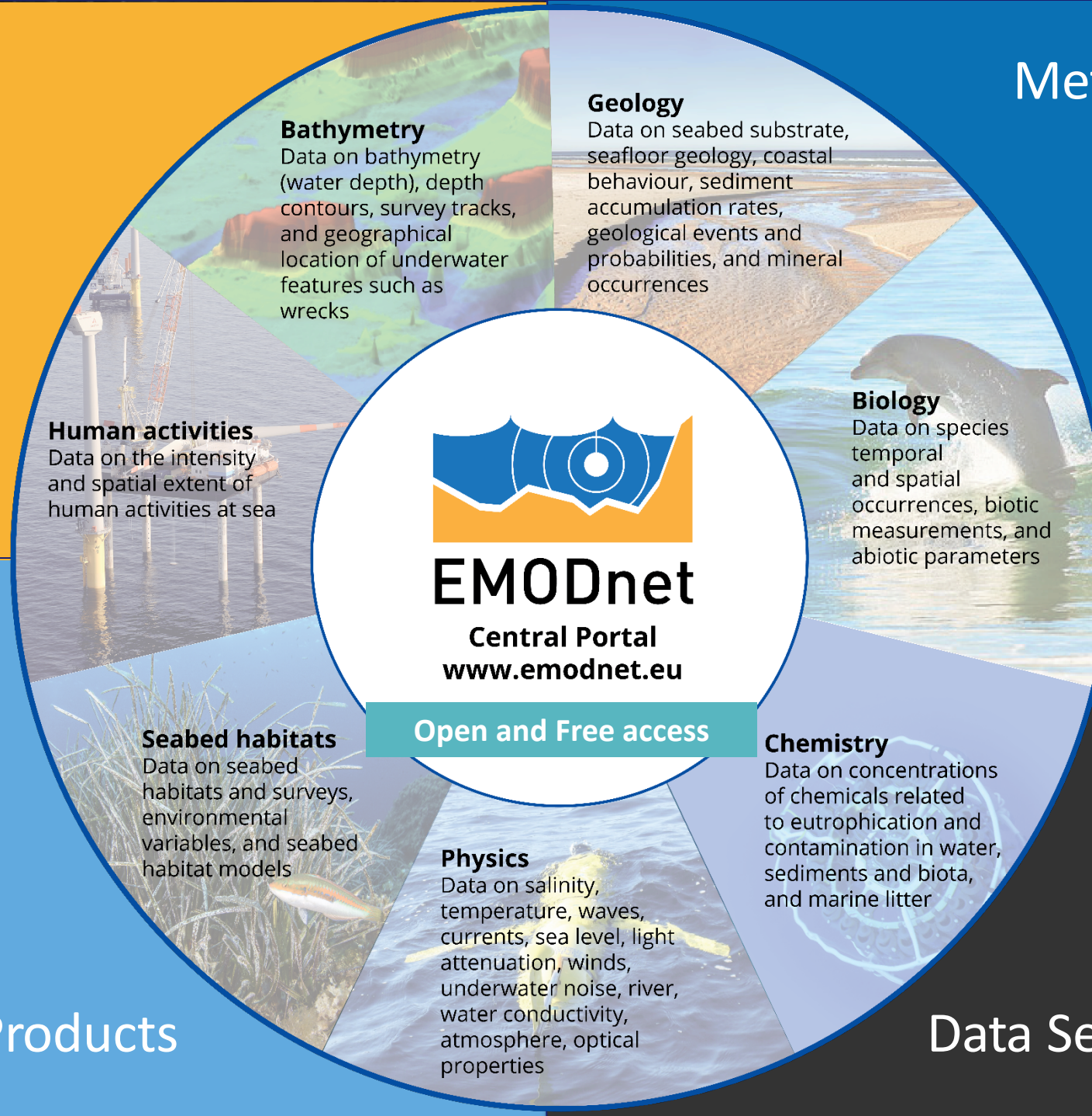
adopted 8 September 2010

## Data

## Metadata

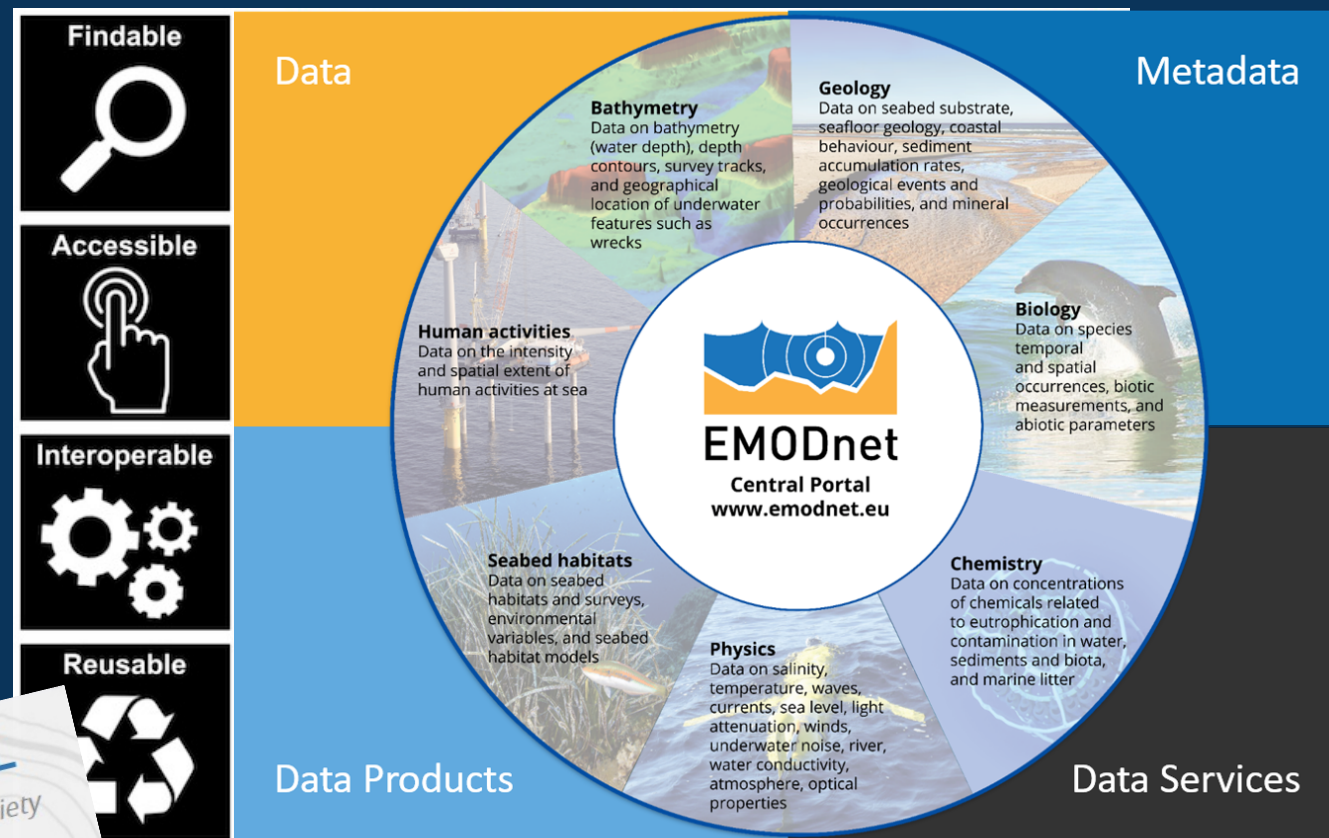
## Data Products

## Data Services



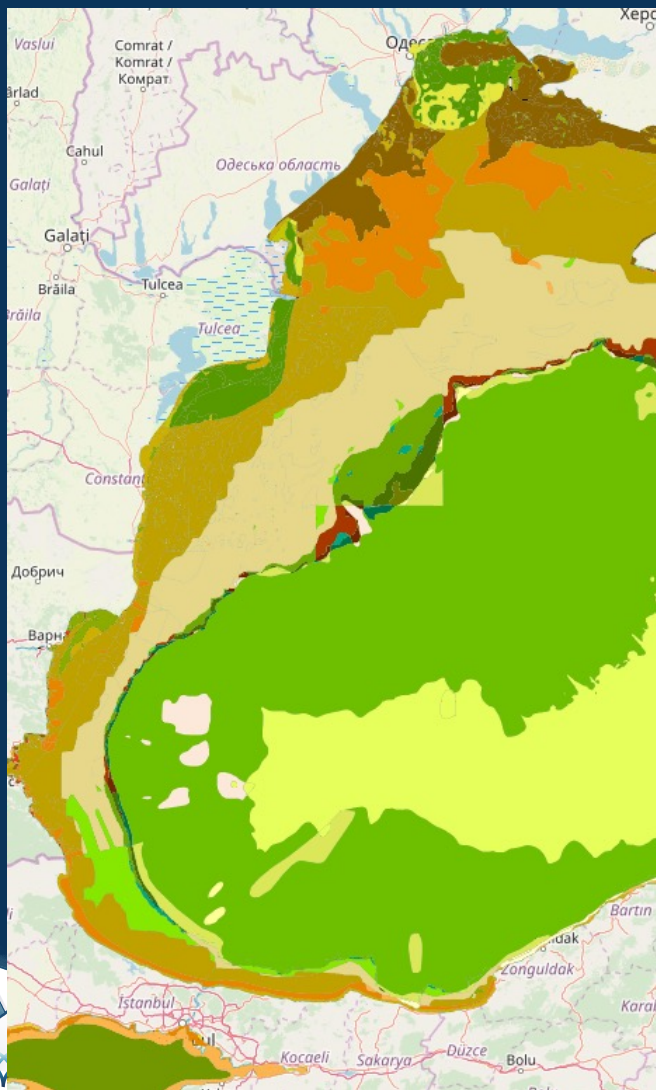
# What is the added value of EMODnet?

- INSPIRE and FAIR data principles
- Aggregated, harmonized multi-parameter data sets
- Searchable metadata
- Integrated data products
- Data services (maps, query)
- Web services e.g. OGC, machine machine readability e.g. JSON, WebS



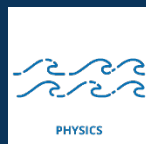


# Result of working together: EUSeamap



Substrate

E.g. Sand, Mud, Rock



Hydrodynamic Energy

Wave and currents climate at the seabed



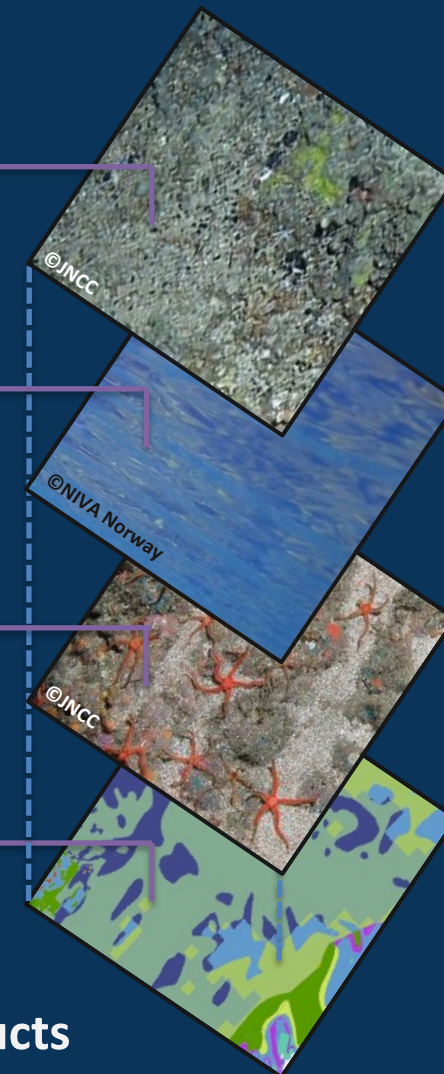
Biological Zone

Infralittoral, circalittoral etc



Predictive habitat maps

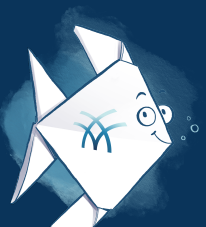
EUNIS A3.1: Atlantic and Mediterranean  
High Energy Infralittoral Rock



With harmonized, trusted datasets, **integrated products** are made possible **for ocean applications and evidence-based decision-making.**

# Marine litter: EU framework

- Easy access to standardized data of:
  - Micro & macro litter
  - Beach – sea surface – seafloor
- Easy access to visualization products
  - ML data distribution, abundance, composition, types, etc.
- Tight connection with:
  - MSFD Technical Group on Marine Litter (TG ML)
  - European Environment Agency (EEA)
  - Regional Sea Conventions (RSCs)
  - Joint Research Commission (JRC)
  - International Council for the Exploration of the Sea (ICES)





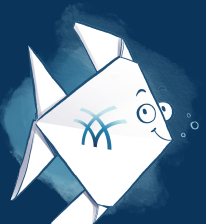
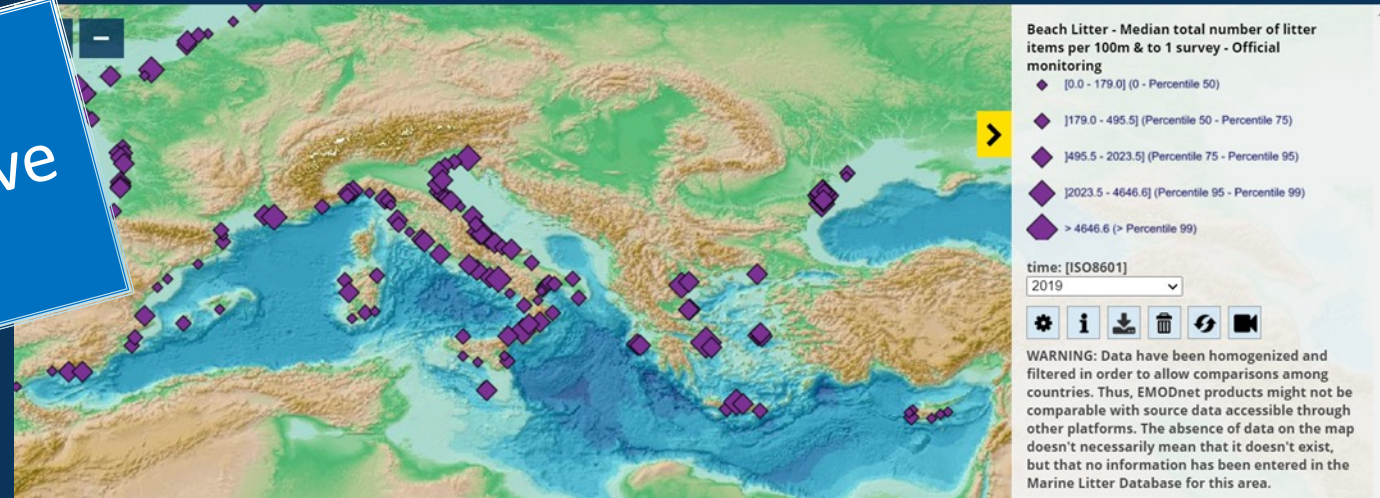
# Use EMODnet, its data and data products

Pan-European data collections



Beach litter surveys: total number of litter items in 2019 (official monitoring)

Let us know what you want and need, and we can improve our products and services

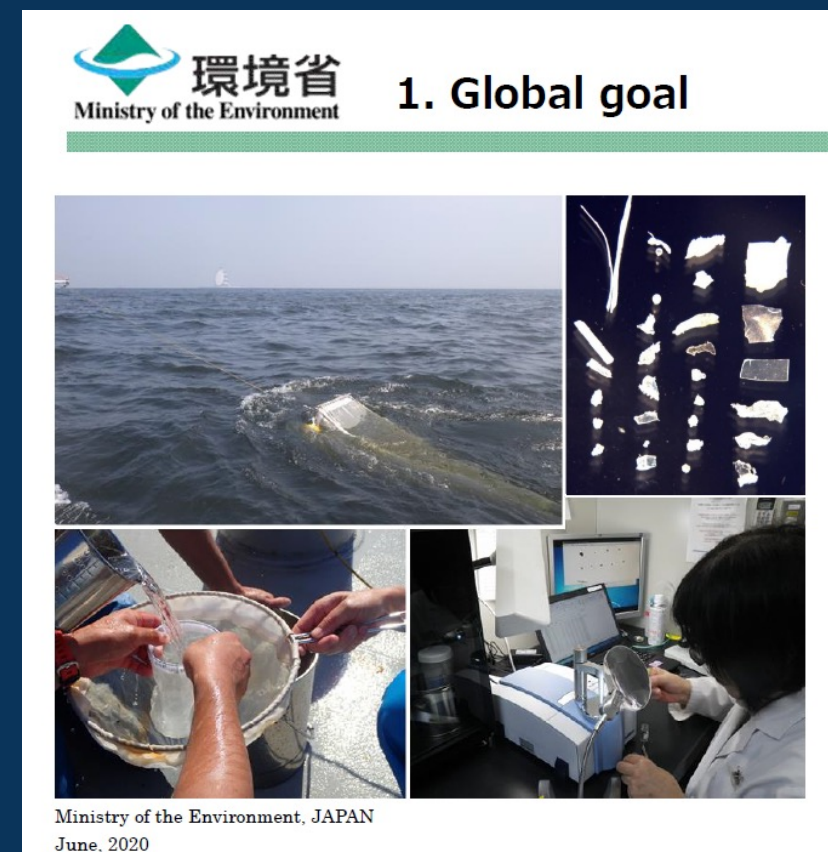


# From European to Global

- Support to MSFD



- Support to G20 group of experts on ML







Research and Innovation  
for blue jobs and growth  
in the Mediterranean Area

---