



**EMODnet**

## The European Marine Observation and Data Network (EMODnet)

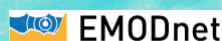
**MSFD-EMODnet Meeting**  
**9 September 2014, DG MARE**

Jan-Bart Calewaert ([janbart.calewaert@emodnet.eu](mailto:janbart.calewaert@emodnet.eu))  
for the EMODnet Community

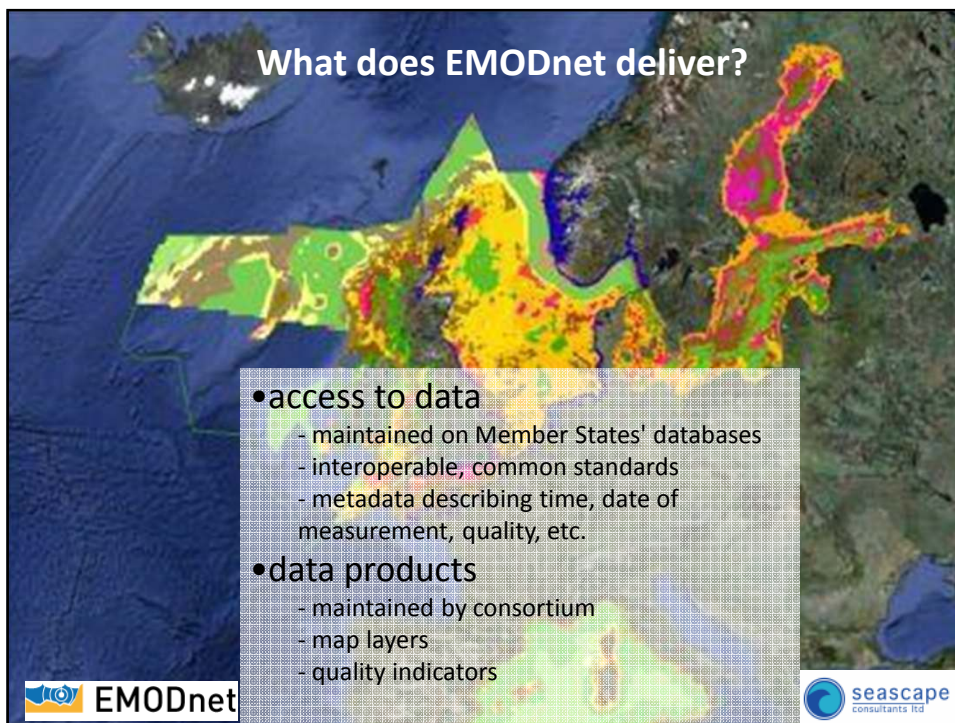


## EMODnet?



- **Network of +110 organisations** assembling **marine data, metadata & data products** from diverse sources within Europe in a **uniform** way to
  - unlock fragmented & hidden marine data by making data more easily accessible, free of restrictions on use and interoperable
  - Produce data products of common interest




## What does EMODnet deliver?



- **access to data**
  - maintained on Member States' databases
  - interoperable, common standards
  - metadata describing time, date of measurement, quality, etc.
- **data products**
  - maintained by consortium
  - map layers
  - quality indicators

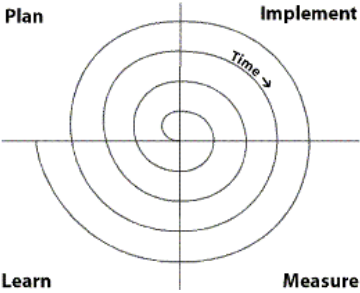
 

## How does it work?




**EMODnet**  
European Marine  
Observation and  
Data Network

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Phase 1 – limited sea basins											
			Phase 2 - low resolution								
					Phase 3 - multi-resolution						



- Iterative process allows users to assess and improve product by trying it out
- Developed by 7 thematic assembly groups with thematic data portals
- Supported by a common central portal [www.emodnet.eu](http://www.emodnet.eu)

 **EMODnet**

**EMODnet Central Portal**  
European Marine Observation and Data Network

**Data Portals** | Data Products | Web Services | Sea Basin Checkpoints | Partners | About | Secretariat

**Hydrography**  
Geology  
Seabed Habitats  
Chemistry  
Biology  
Physical Parameters  
Human Activities

on and Data Network (EMODnet) is a consortium of organisations within Europe that assembles marine data from diverse sources in a uniform way. The main purpose of EMODnet is to unlock fragmented and and to make these available to individuals and organisations (public and private), and to facilitate atal and offshore activities through improved access to quality-assured, standardised and harmonised data from the European Commission Directorate-General for Maritime Affairs and Fisheries (DG MARE) 2020 strategy.

ports in operation that provide access to marine data from the following themes: hydrography, geology, y, biology, and physical habitats . One further portal covering human activities is currently under

**Hydrography**  
Data on bathymetry (water depth), coastlines, and geographical location of underwater features: wrecks.  
[Read more](#)

**Geology**  
Data on seabed substrates, sea-floor geology, coastal behaviour, geological events and probabilities, and minerals.  
[Read more](#)

**Seabed Habitats**  
Data on modelled seabed habitats based on seabed substrates, energy, biological zone, and salinity.  
[Read more](#)

**Chemistry**

**Biology**

**Physical Parameters**

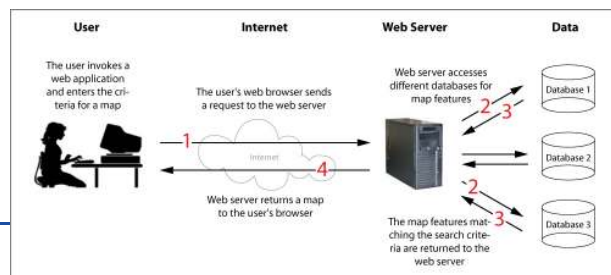
## What's new in this phase?

- EMODnet Central Portal
- EMODnet Human Activities Portal
- EMODnet Sea-basin checkpoints
- EMODnet Secretariat

## The Central Portal

### [WWW.EMODNET.EU](http://WWW.EMODNET.EU)

- Acts as a gateway to the other thematic and regional EMODnet portals
- Also develops own data products combining data from at least 2 thematic data portals



 EMODnet

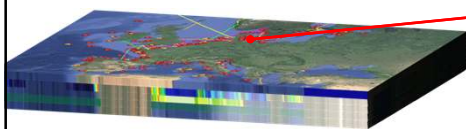
## Use Cases

- Use Cases will be used as a roadmap for developing the Portal
- Highlight added value of bringing thematic data together
- Generate functional requirements of portal
- Possible link with sea basin checkpoints?
- Scientifically – or user need driven

 EMODnet

 seascope  
consultants ltd

## Use Case I: Query products simultaneously



Retrieve Data from specified coordinates at a given time or for a time interval

Physical Parameters (temperature, salinity)

Bathymetry

Seabed Substrate

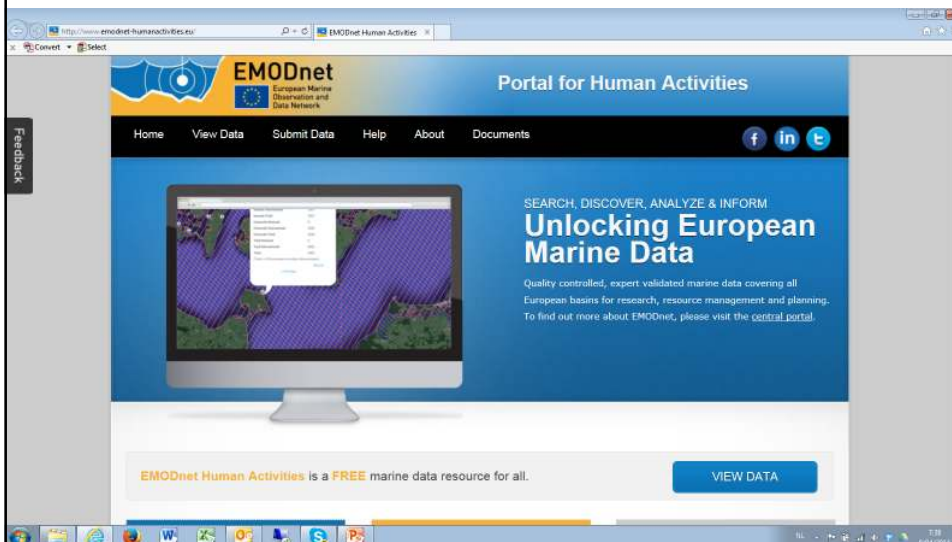
Marine Region (ICES, Protected Area)

Species Abundance

Coordinates	Average Depth (m)	Seabed Substrate	Seabed Habitat	Good mean abundance Nitrate (5 m - annual/μ)	ICES Statistical Area	EEZ
52.8501347103	22.0	fine sandy mud	fine sandy mud	0.27	X	France EEZ
52.8501347103	27.4	mud	fine sandy mud	0.45	V	Denmark EEZ
52.8501347103	17.5	fine sandy mud	fine sandy mud	0.38	V	Denmark EEZ



## Human activities Portal – now online!



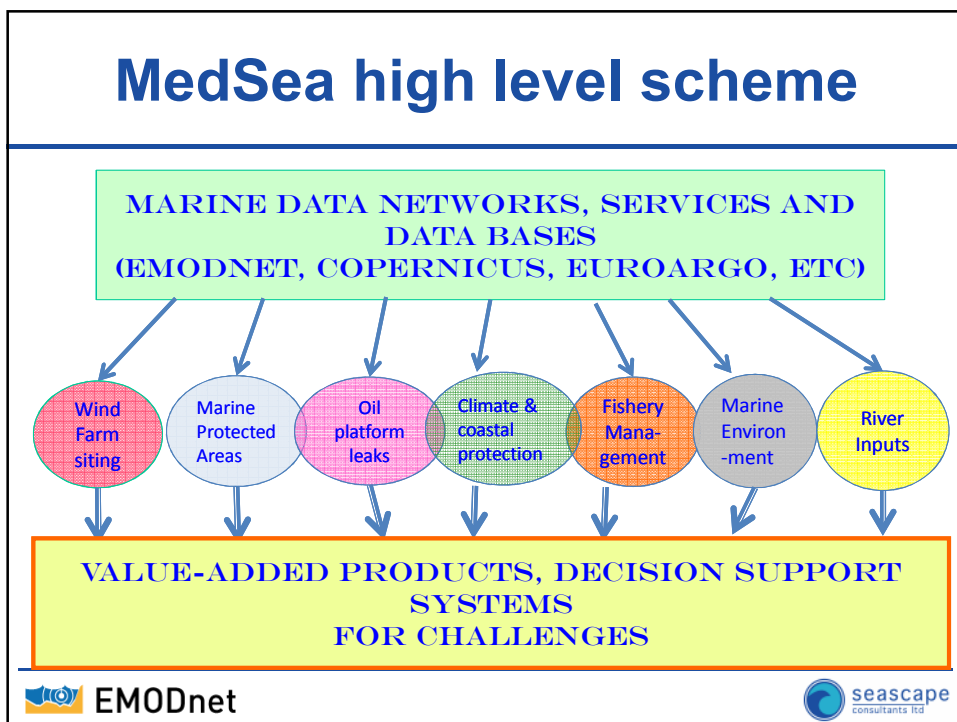
**EMODnet**  
European Marine Observation and Data Network

## sea basin checkpoints

How can observation infrastructure be optimised?

North Sea

Mediterranean



## The EMODnet Secretariat

Overarching goal to develop a more efficient, effective, fit for purpose EMODnet which is better known and more widely used

### 1. Coordination & internal communication

- Steering Committee / internal updates / guide entry portal / support MODEG

### 2. Monitoring

- Test functionality / implement progress indicators / collect user-feedback / progress reports / report lessons learned / guide portals to improve them

### 3. Dissemination and Outreach

- Prepare/give on-line demonstrations / videos / brochure/ posters etc.



## Hosting of the Secretariat

Hosted by the Flemish Government at the InnovOcean site in Oostende, (Belgium)



European Marine Board

EMODnet Secretariat

UNESCO IOC -IODE

Flanders Marine Institute (VLIZ)



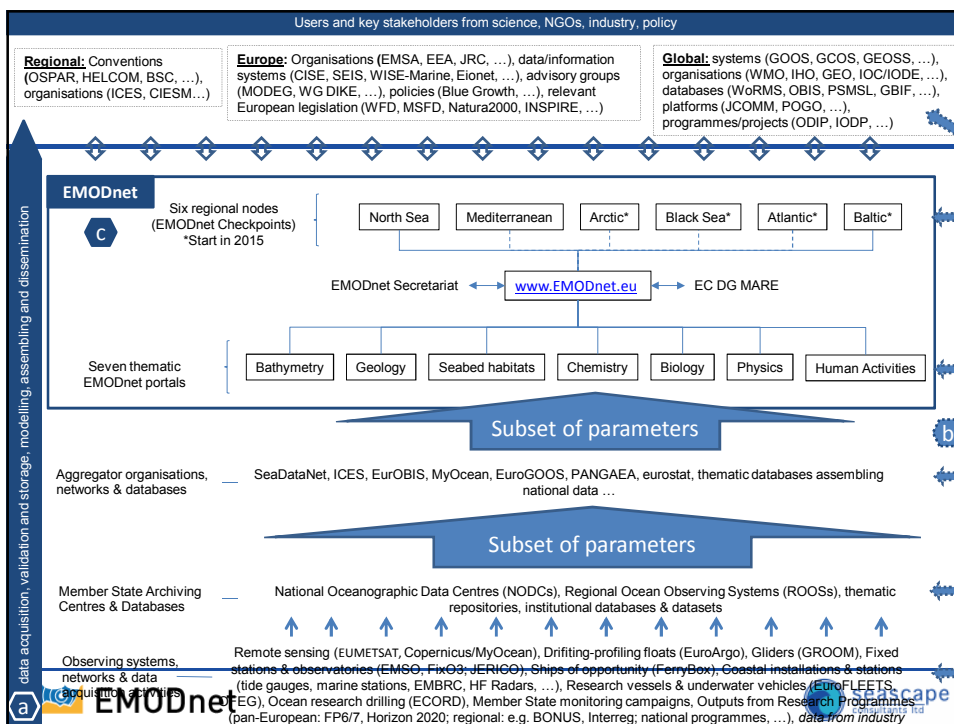
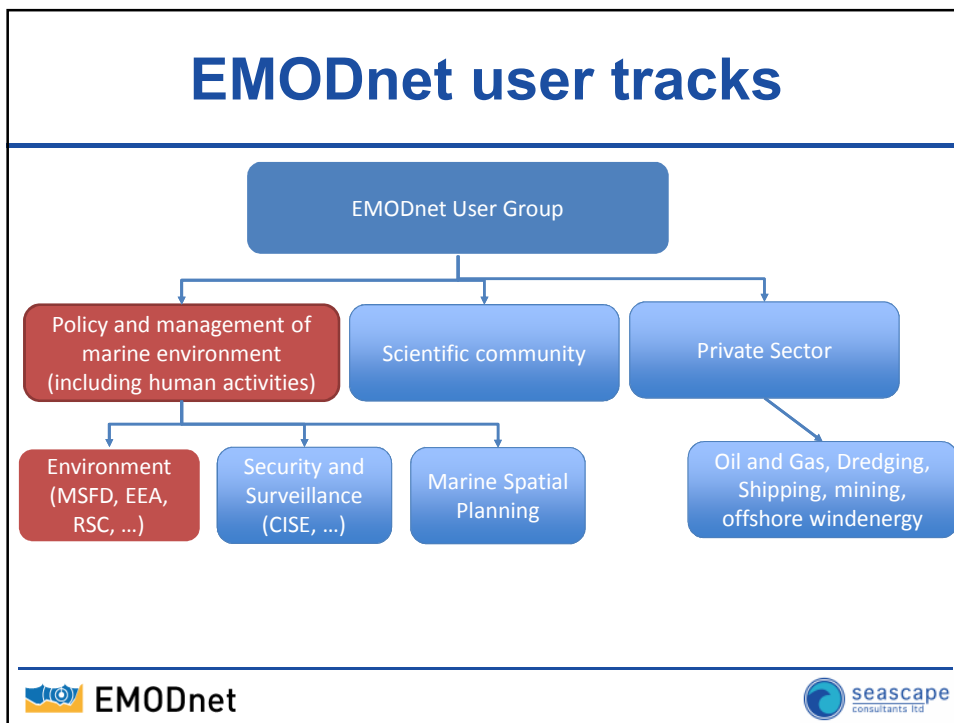
## The way ahead

- Communication on Innovation in the Blue Economy and Roadmap/Action Plan
  - more involvement of private sector
  - mechanism to advise Member States and the EU on the most cost-effective sampling, surveying and observation programme for each sea-basin
  - convergence of EMODnet, data collection in fisheries and Copernicus marine service

## Concluding remarks

- EMODnet is a long term marine data initiative supporting sustainable blue economy in Europe
- Developed through stepwise approach – now halfway – the service is already useful and picking up speed to make it
  - ✓ Fully operational
  - ✓ Provide the best available data, free of restrictions on use
  - ✓ **Become more user friendly & fit for purpose**
- Can only be done together with the **DATA PROVIDERS AND USERS: WE NEED YOUR HELP** → find us at [www.emodnet.eu](http://www.emodnet.eu) or via [info@emodnet.eu](mailto:info@emodnet.eu)
- Bringing observations, products, services and knowledge to users and public requires appropriate tools and guidance





*Thank you  
for your attention*



## EMODnet Secretariat Contact Details

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