Status EMODnet Central Portal



EMODnet

Trajectory & Timeline

23 November 2012 First meeting organised between the European

Commission, the coordinators of the different EMODnet lots and the Flanders Marine Institute to discuss the design of the central EMODnet Portal

07 March 2013 Proposal presented and discussed at MODEG meeting

31 May 2013 Feedback from all coordinators received

5 July 2013 First draft of the Website presented to MODEG &

DIKE

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Design document central EMODnet portal

This document is the **design document for a central EMODnet portal** and describes the technical setup and main functionalities of the central EMODnet Portal. This document is **open for comments, suggestions and modifications**.



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General Objective

The overall objective of the central EMODnet Portal is to provide the user with an accessible and user friendly web interface providing access to the data products and links to the data that were used to compile these data products and are available in the different thematic portals.

The central EMODnet Portal needs to have high performance, providing fast access to chemical, physical, geological, biological, habitat and bathymetric data products at sea basin scale, produced within the different EMODnet lots. The central EMODnet Portal will also provide general information on all EMODnet projects, promoting the project as one integrated network.

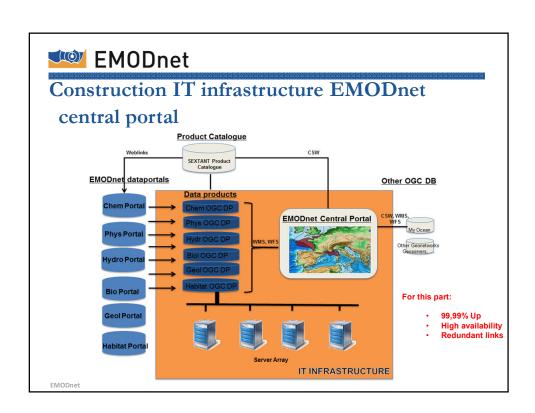
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General Objective

In order to achieve this, we propose to:

- i) create and populate a website to disseminate the EMODnet, using also different social media.
- ii) build a GIS-based web portal providing access to the different thematic data products and
- iii) host a robust IT infrastructure to store the thematic data products

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Standards and webservices

The Central EMODnet Portal will implement the geospatial standards defined by the OGC (Open Geospatial Consortium). The portal will implement the Web Map Services (WMS) specification, Web Feature Services (WFS), Web Coverage Services (WCS).

The services are compliant with the **INSPIRE** view and downloading services. The product metadata catalogue Sextant is also implementing the Catalogue Service for the Web (CSW) and ISO TC211 standards. This service is compliant with the INSPIRE discovery services.

Web services will be developed allowing to upload your file with geographic coordinates and the system will add information derived from the data products to the uploaded file. Through development of SOAP/REST Services.

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Feedback received

- ✓ Strong central portal, which attracts more endusers to EMODnet and EMODnet portals (different social media...)
- ✓ Should give clear overview of available products
- ✓ Identify **common use cases**, as a roadmap for developing portal, usefull for endusers, that highlight the added value of common analysis
- ✓ Include information on vocabularies & data policy
- ✓ User Friendly & Coastal Data

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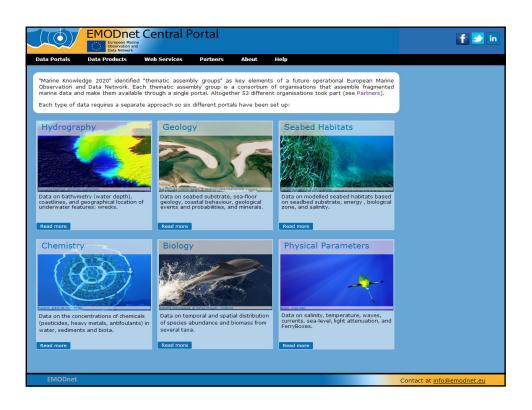


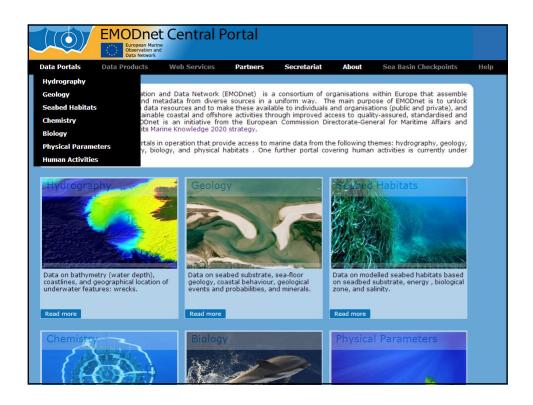
Construction EMODnet Central Portal

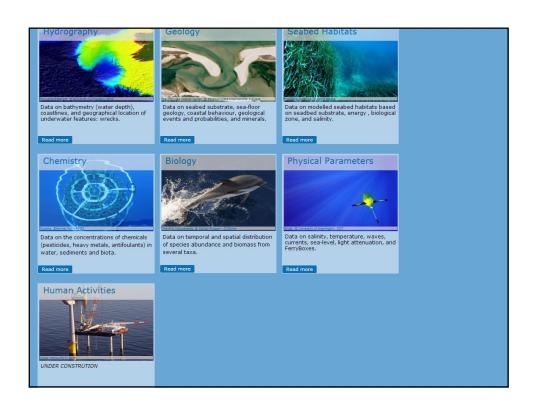
EMODnet website: currently under development

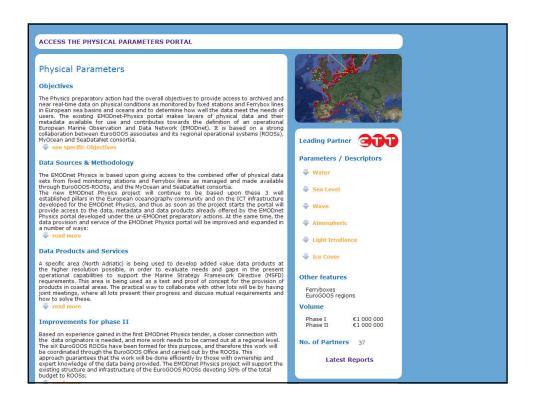
- The website will contain detailed information and links to the different thematic portals and will give an overview of the European Marine Observation and Data Network, and its partner institutes.
- The website will also make use of social media (Facebook, Twitter, LinkedIn) to announce news and disseminate information.
- The website will embed the Central EMODnet Portal and will be available from http://www.emodnet.eu. All web statistics will be monitored

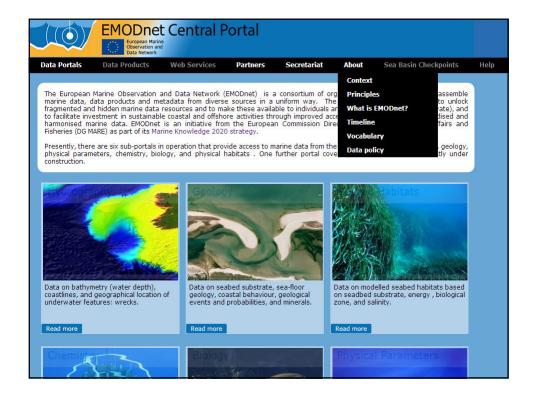
FMODnet

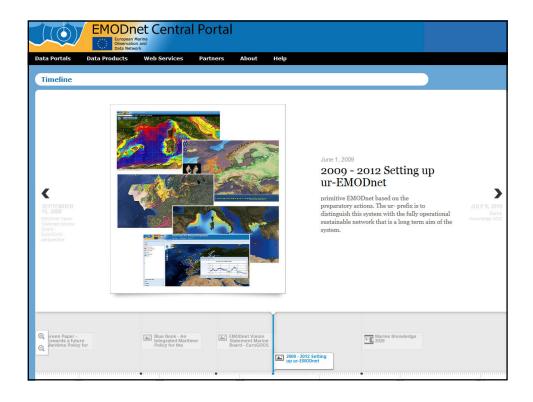


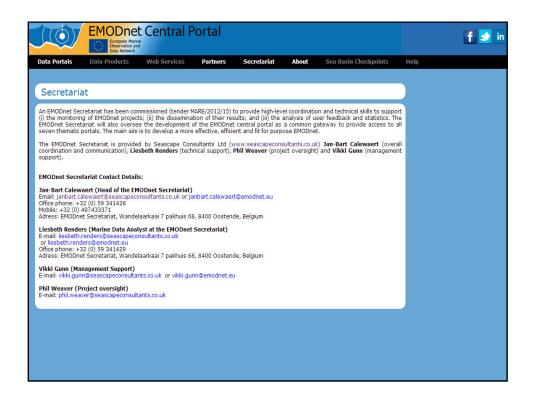


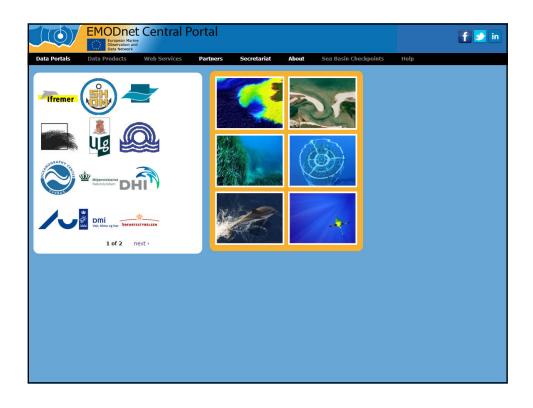




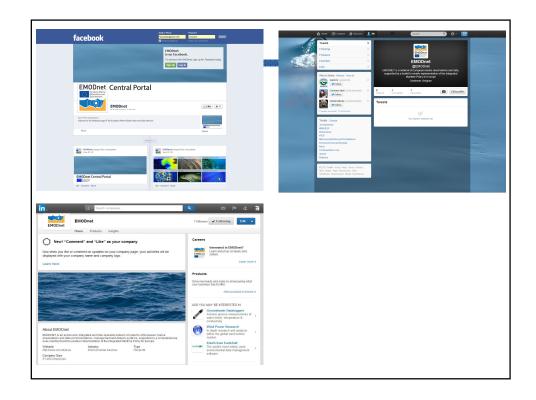


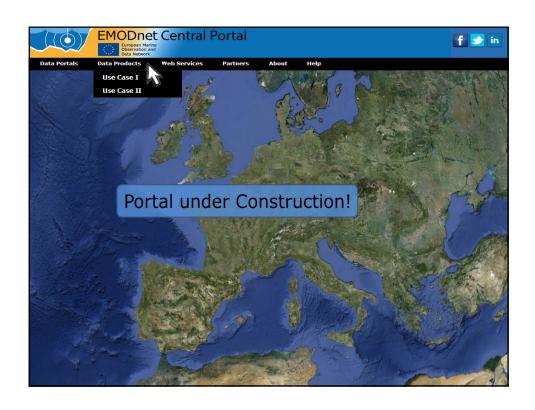












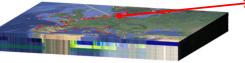
Possible Uses Cases

- 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 seabasin checkpoints?
- Scientific or user need driven
- Through working group with coordinators of the different lots and the Secretariat

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Use Case I: Fisheries Assessments provide information to fisheries authorities.



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

Physical Parameters (temperature, salinity)

Bathymetry

Seabed Substrate

Species Abundance

Use Case II: Coastal data

supporting the assessment of coastal status and trends

- EEA European coastline
- EMODnet Bathymetry (depth)
- EMODnet Geology
 - Coastline Migration, Sediment Accumulation rate, Seabed Substrate
- EMODnet Physics
 - Tides, Waves, wind



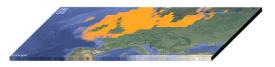
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Use Case III: Use case for MSFD

Biological valuation using EMODnet

- Calculate Benthos Ecosystem Quality Index BEQI at regional sea level
 - Gridded abundance, modelled seabed habitat
- Calculate biological valuation map at regional sea level (Borja, 2010)



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