Status EMODnet Central Portal

EMODnet
European Marine Observation and Data Network

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1. Timeline recap of the Central Portal & MODEG feedback
2. Secretariat on the website
3. Steering Committee Meeting, December 2013
4. Technical Working-Group
    1. Use cases (WMS / WFS)
    2. Single sign on?
    3. Rss

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Timeline

- 23rd November 2012 First meeting to discuss the design of the central EMODnet Portal
- 07th March 2013 Proposal by VLIZ presented and discussed at MODEG meeting
- 31st May 2013 Feedback from all coordinators received
- 5th July 2013 First draft of the Website presented to MODEG & DIKE
- 10th October 2013 Launch of the first version of the EMODnet Central Portal website & presentation to MODEG
- 17th December 2013 EMODnet Steering Committee meeting
- 14th February 2014 Launch of the second version of EMODnet Central Portal website

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Feedback received - MODEG

- ✓ Strong central portal, which attracts more end-users to EMODnet and EMODnet portals (different social media…)
- ✓ Use Cases Identified
- ✓ Should give clear overview of available products
- ✓ Common IT infrastructure not needed
- ✓ Different existing thematic data product portals have different tools, should be maintained
- ✓ Include common vocabulary, Data policy

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Secretariat

- Dissemination (leaflet)
- About the Secretariat
- Contact Details
- How to reach us?

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EMODnet Steering Committee Updates

- All URLs standardized to: www.emodnet-xxxxxxxx.eu
- Physical Parameters -> Physics
- Hydrography -> Bathymetry
- Landing Page for Human Activities
- Setting up of a Technical WG

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Ad Hoc Technical Working Group

- Formed by Technical managers or representatives of each of the thematic portals together with the Secretariat
- The ad hoc technical working group meetings are convened and chaired by VLIZ
- Its main objectives are to:
  - Guide the technical development of the EMODnet Central Portal (use cases, additional functionalities, visualisation, software implementation, common standards, etc.)
  - Discuss and provide recommendations related to relevant technical matters to the Steering Committee

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Technical Working Group deliverables

- Use Cases
- Single Sign-On (EMODnet, SeaDataNet, MyOcean)
- RSS News feed (EMODnet Lots, MyOcean, SeaDataNet, DG MARE, marineregions.org)

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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

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Use Cases Overview

- Use Case 1: Query products simultaneously
  - Retrieve Data from specified coordinates at a given time or for a time interval
- Use Case 2: Benthic Index Calculation (BEQI)
  - Run online calculations on EMODnet data products
- Uses Case 3: Coastal data
  - supporting the assessment of coastal status and trends

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Use Cases - Use Case 1

- Combined output from different data products: **Query EMODnet data products simultaneously**
- What it is: Retrieve data from multiple data products via one single interface
- In what context: For providing Fisheries Authorities with information relevant to perform fisheries assessments
- What is the output: The output is a list of values for a given coordinate point or list of points. For a given coordinate (e.g. current position of a vessel), the system will return a list of the required parameters (depth, seabed substrate, seabed habitat, mean temperature/salinity of nearest mooring, fishing zone, national jurisdiction, protected area etc.).

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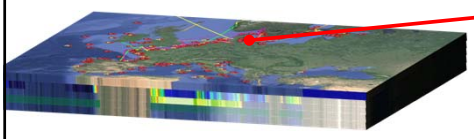
Use Case 1: Query products simultaneously



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

Coordinate	Average Depth (m)	Seabed Substrate	Seabed Habitat	Cod mean abunda	Nitrates (5m -µmol/L)	ICES Statitical Area	EEZ
2,5461 51,7123	29,0	mud to sandy mud	Infralittoral mixed	0,37	16,1	XIIb	French EEZ
3,7461 54,7123	27,4	mud	Circalittoral sandy t	0,45	34,1	VIIa	Dutch EEZ
6,5461 53,7123	87,5	coarse-grained sedi	Circalittoral muddy	1,89	27,1	VIb	Danish EEZ

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Use Cases

- functionality will make use and integrate geographic webservices provided by the different thematic lots.
- It will provide the user with a tool that easily integrates the output from the different thematic products.
- The tool will be based upon OGC compliant webservices – and more specifically, requires operational Web Feature Service (WFS) and Enhanced Web Map Service (WMS) that support the "GetFeatureInfo". Once the tool is operational, new OGC compliant data products, developed within the context of EMODnet can be added to this tool

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Use Cases - What is a Web Map Service (WMS)?

- The OpenGIS® Web Map Service Interface Standard (WMS) provides a simple HTTP interface for requesting geo-registered map images from one or more distributed geospatial databases.
- A WMS request defines the geographic layer(s) and area of interest to be processed. The response to the request is one or more geo-registered map images (returned as JPEG, PNG, etc) that can be displayed in a browser application.
- The interface also supports the ability to specify whether the returned images should be transparent so that layers from multiple servers can be combined or not.

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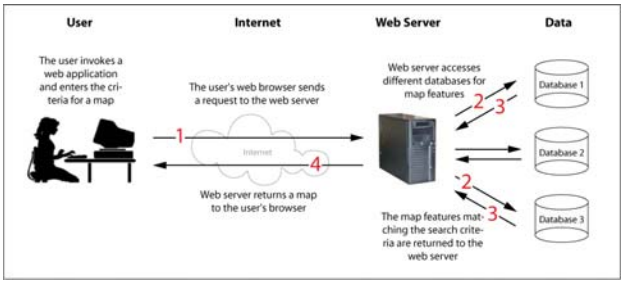
- Be able to get access to the data product via WFS (GetFeature)
- Perform queries over WFS
- Return output in different formats (list of features per coordinate point, list of points or area, Indexes etc.)



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Challenges -> Multiple Servers = Multiple Requests

- EMODnet central portal will need to set up a data base with all the URLs for each of the web service.
- Different Output formats: HTML, plain text, XML

URL Structure	Description
http://host[:port]/path[?{name[=value]&}]	URL prefix of service operation. [ ] denotes 0 or 1 occurrence of an optional part; {} denotes 0 or more occurrences.
name=value&	One or more standard request parameter name/value pairs as defined for each operation by this International Standard.

id	name	type	url	mapfile	layer	thema	thema_english	imisdasID	description	source	filter	style

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Towards operationality of web services

- OCG testing facility
- Rating system similar to OneGeology (aiming at 4* rating)

Star Rating	Level of service attained	Technical and service parameters to be met
One star	Basic Web Map Service (WMS)	Web Map Service (WMS) supporting "GetCapabilities" and "GetMap" requests to deliver map images.
Two star	Upgraded Web Map Service (WMS)	• One Star requirements met. • Map legend provided. • Minimum metadata available (contact information, abstract, access constraints, cataloguing keywords).
Three star	Enhanced Web Map Service (WMS)	• Two Star requirements met. • "GetFeatureInfo" (at least text/html format) request supported. • Web Map Service (WMS) v. 1.3.0 supported. • Clear statement of use relating to data, including license and charging details (where appropriate). • Access to data must be transparent, simple and fair to all.
Four star	Web Feature Service (WFS)	• Three Star requirements met. • "MetadataURL" for each WMS layer and WFS feature type should point to a metadata record conforming at least to the metadata profile. • Web Feature Service (WFS) at a minimum v. 1.1.0. • Filter Property

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Other recent Updates

- Website revamping
  - Increased Functionality
  - Better look (?)
- Leaflet available for download
- Launch of the Social Media updates yesterday!
- Following weeks -> Design Document Version 3
  - Uses Cases Document to be merged with the Design Document (keep track of feedback from MODEG, Coordinators, and versioning)

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Thank you! Questions?