

EMODNET Pilots



Maritime Affairs

4 service contracts are funded by DG-MARE for creating pilot components of the European Marine Observation and Data Network:

Lot 1. hydrographic data

Lot 2. marine geological data

Lot 3. chemical data

Lot 4. biological data

Started in June 2009 - 3 years (development, test, operation)

Collated data will feed into the European Atlas of the Seas

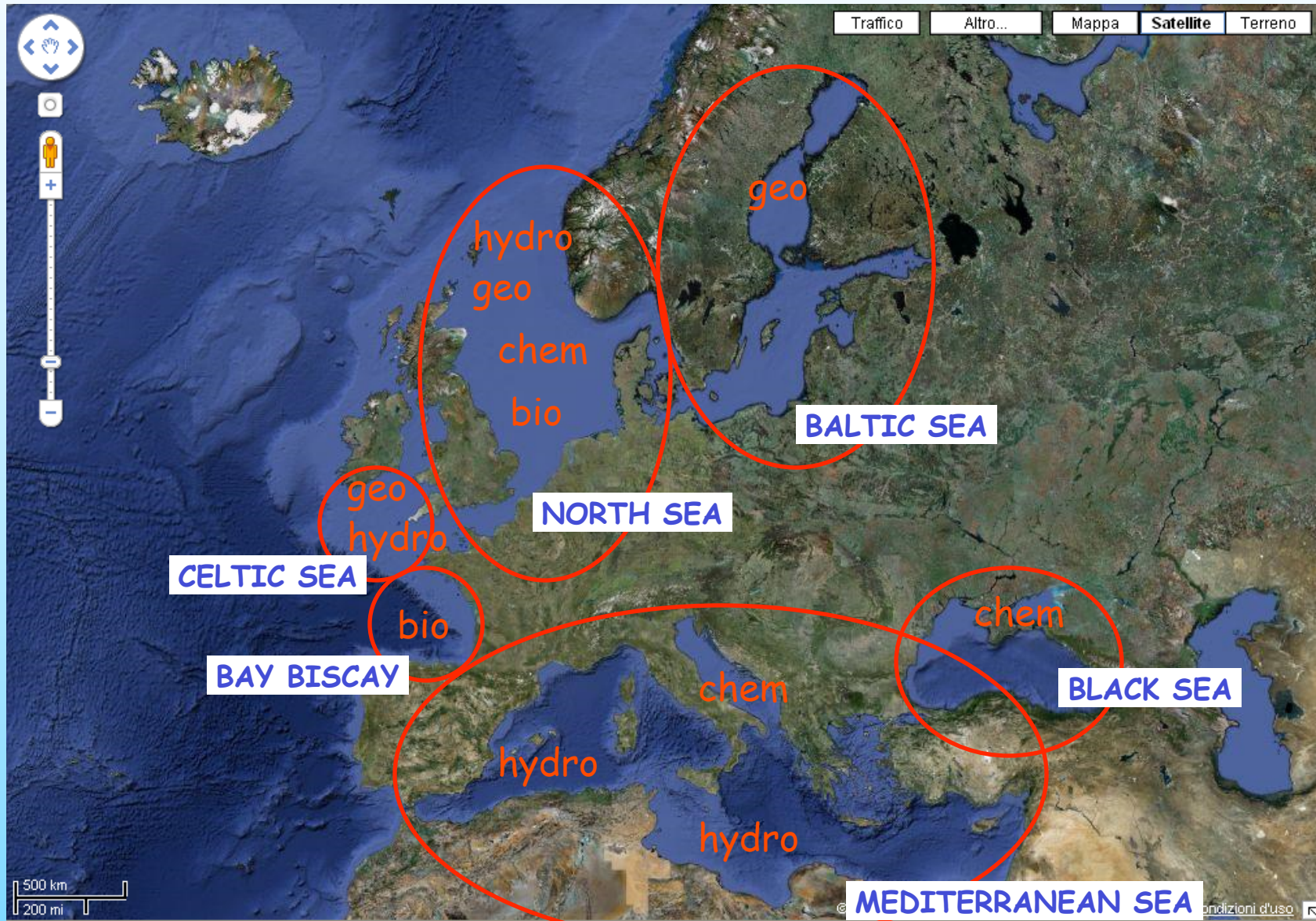


EMODNET Pilots

Overall objectives are to assemble fragmented and inaccessible marine data into interoperable, contiguous and publicly available data streams for complete maritime basin. Specific objectives are:

- ✓ **collate** existing data into interoperable formats
- ✓ **develop**, test, operate and maintain a **portal** for data access
- ✓ **monitor** and report on the effectiveness of the system in meeting the users needs
- ✓ **analyse** what further steps are needed to improve the system
- ✓ **analyse** the necessary requirements to keep the system as a **sustainable** infrastructure

Geographic areas to be covered



Portal requirements

The portal must allow the download of data for further analysis by users and to make it available for combination with data from other portals. The portal will also allow users to understand how the data was collected. Thus the portal should allow:

- ❖ On-line instructions
- ❖ Viewing a catalogue of the data available
- ❖ Querying and downloading of data
- ❖ Viewing the position and magnitude of data as well as geographical information system layers following the INSPIRE View Service Implementation Rule
- ❖ Downloading of GIS layers (high resolution interpolated maps)
- ❖ Understanding of the precision of the data and how it has been processed.
- ❖ Users to receive feedback on queries sent by e-mail.
- ❖ Links to other relevant web-sites



Proposed strategy

- The following SeaDataNet strategy was formulated, which is proposed as approach for the EMODNET pilots:
 - Develop **a high-end dedicated portal**, outfitted with a powerful spatial database, that is complemented with WMS, WFS and WCS services (OGC) to serve users and to provide layers for e.g. the other EMODNET portals, the prototype European Atlas of the Seas, and the broad-scale European Marine Habitats map;
 - Involve research institutes and monitoring authorities in providing data sets for producing **Interpolated Maps** with specific resolution for each geographical region, that are loaded and integrated afterwards into the portals' spatial database;
 - Include in the portal a metadata discovery service, by adopting the **SeaDataNet CDI metadata standard**, that inter alia gives clear information about the background data, the access restrictions and distributors; this also ensures the connection of the EMODNET portals with the SeaDataNet distributed infrastructure.



SeaDataNet - Mozilla Firefox

File Edit View History Bookmarks Tools Help

SDN http://www.seadatanet.org/

SDN SeaDataNet

Pan-European infrastructure for Ocean & Marine Data Management




Home Overview Metadata Data Access Products Standards & Software Education Meetings Publications Partners Links Extranet

SeaDataNet

SeaDataNet

SeaDataNet has federated open digital repositories to manage, access and share data, information, products and knowledge originating from oceanographic fleets, new automatic observation systems and space sensors.

By use of standards for communication and new developments in information technology, in-situ and satellite marine data platforms are providing metadata, data and products as a unique virtual data centre.



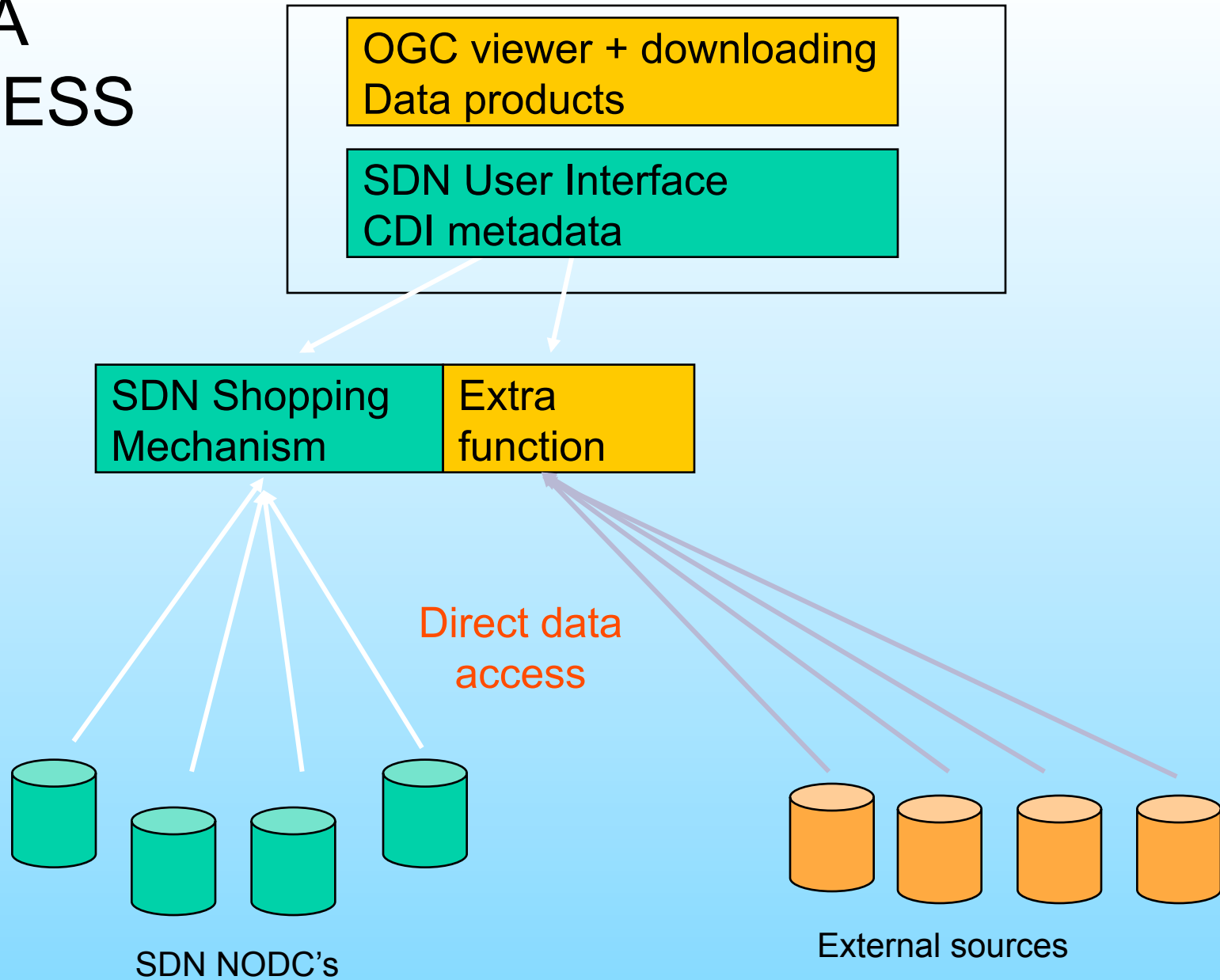
The SeaDataNet partnership is assuring the archival and preservation of data for their re-use for new research, retention of unique observational data which is impossible to re-create; enhance existing data available for research projects as well for marine environment management, education, history and other uses

News

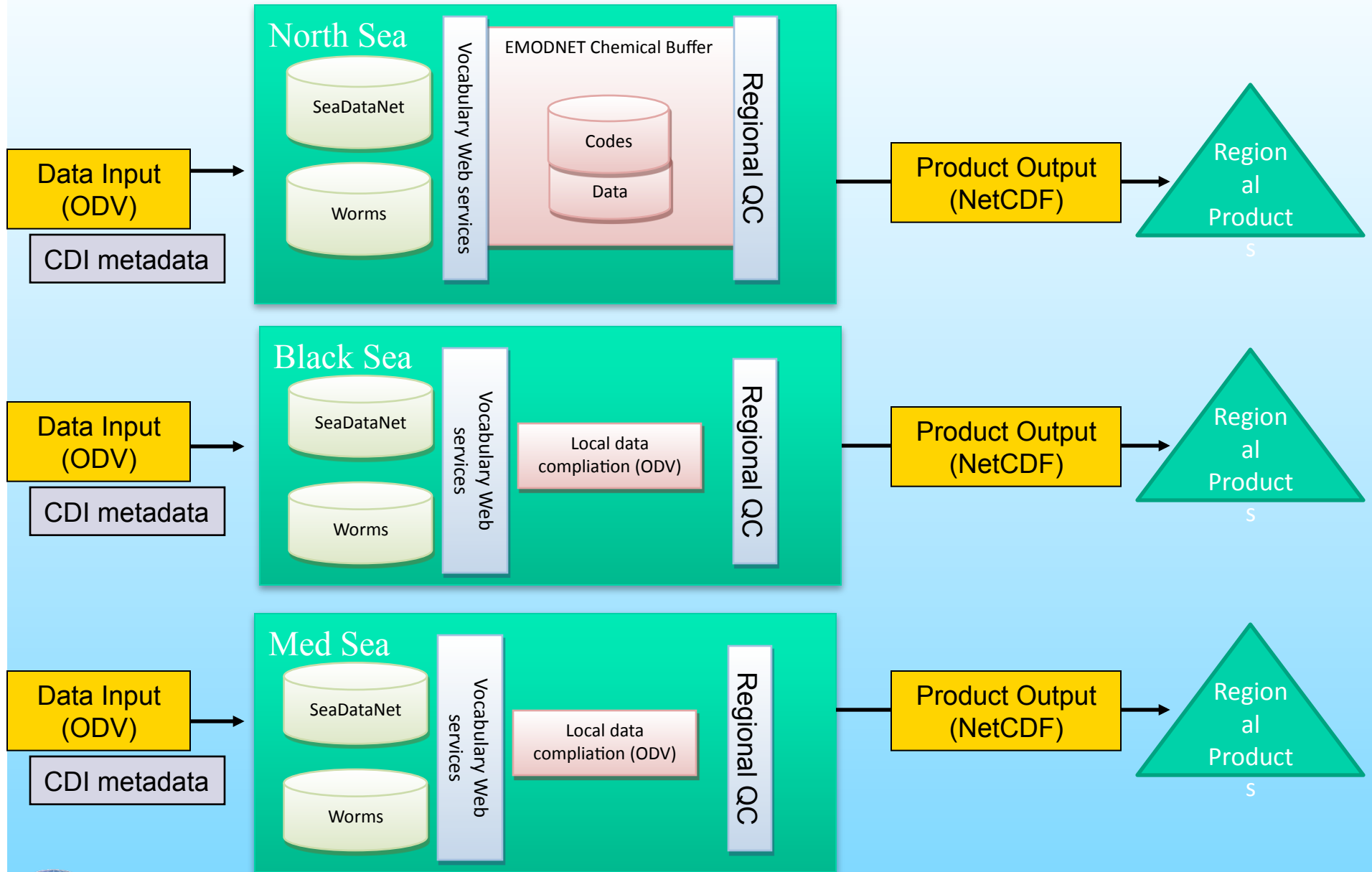
- » **MIKADO**
New release V1.7 available
- » **IMDIS 2010 Conference**
March 29-31, 2010, Paris, France, Abstracts submission
- » **NEMO**
Solaris and Linux versions available
- » **Seadatanet Newsletter n°5 - June 2009**
- » **SeaDataNet, adopted as basis for EMODNET pilots**
- » **Geo-Seas – expanding SeaDataNet with geological and geophysical datasets**
- » **CDI V1 Data Access Service operational**

Done

DATA ACCESS



DATA PRODUCTS



Interaction with SeaDataNet

EMODNET portals will include SDN V1 infrastructure:

- SDN Standards for data and metadata
- CDI mechanism to access data sets with data policy
- SDN Security Services for users registrations, and SDN Delivery Services for data access and downloading
- DIVA software tool (Data-Interpolating Variational Analysis) to produce gridded data from row data. Error maps reflect the data quality and distribution.

SDN a key element to ensure interoperability and harmonization between the EMODNET pilots, as data and products compatibility

