

Further developing the SeaDataNet pan-European infrastructure for marine and ocean data management

Michèle Fichaut and the SeaDataNet Consortium



What is SeaDataNet?



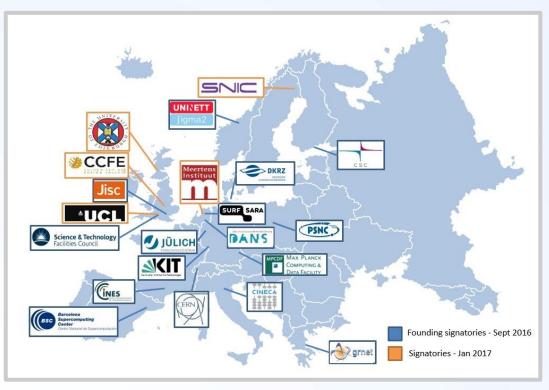
A pan-European infrastructure set up and operated for managing marine and ocean data in cooperation with the NODCs and data focal points of 34 countries bordering the European seas

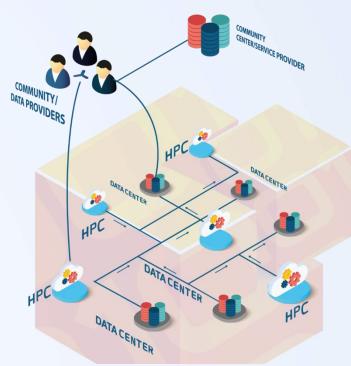
90s	Metadata directories Medar/MedAtlas
2002-2005	Sea-Search (FP5)
2006-2011	SeaDataNet (FP6)
2011-2015	SeaDataNet II (FP7)
2016-2020	SeaDataCloud (H2020)

A legal entity : SeaDataNet SeaDataNet AISBL for sustainability of the Consortium (same structure than EuroGoos)



SeaDataCloud - Cooperation with EUDAT





A consortium of 20 High Performance Computing (HPC) centres offering also storage resources

5 EUDAT members are partners of SeaDataCloud

sdn-userdesk@seadatanet.org - www.seadatanet.org



SeaDataCloud 2nd User workshop, 17 September 2020

PARTNERS Q 🔲 🔣 USERS 🚻 🔞 Q - 💟 FOLLOW US 💆

SeaDataNet portal

With access to services

- Standards& common vocabularies
- Software tools both for data centres and users
- Data and metadata catalogues
- Data products

http://www.seadatanet.org

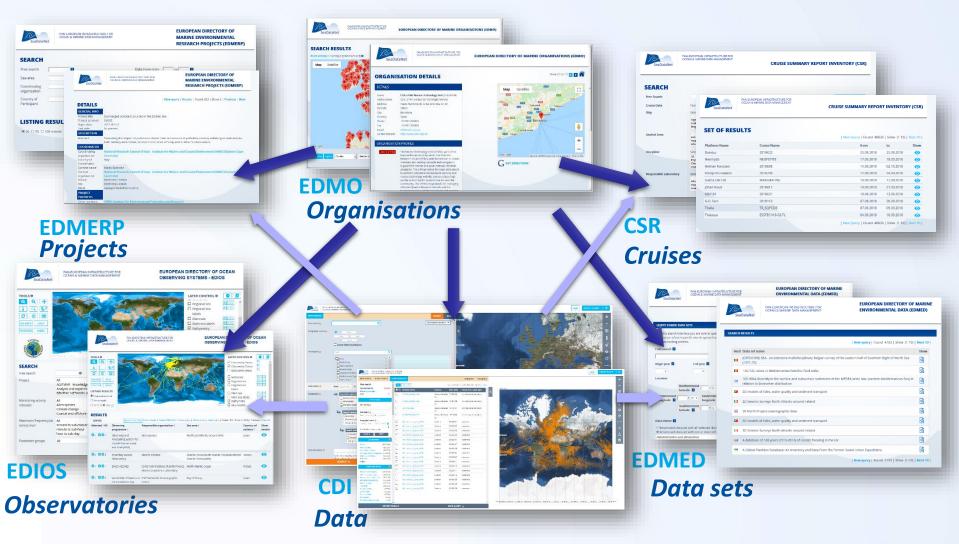


PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

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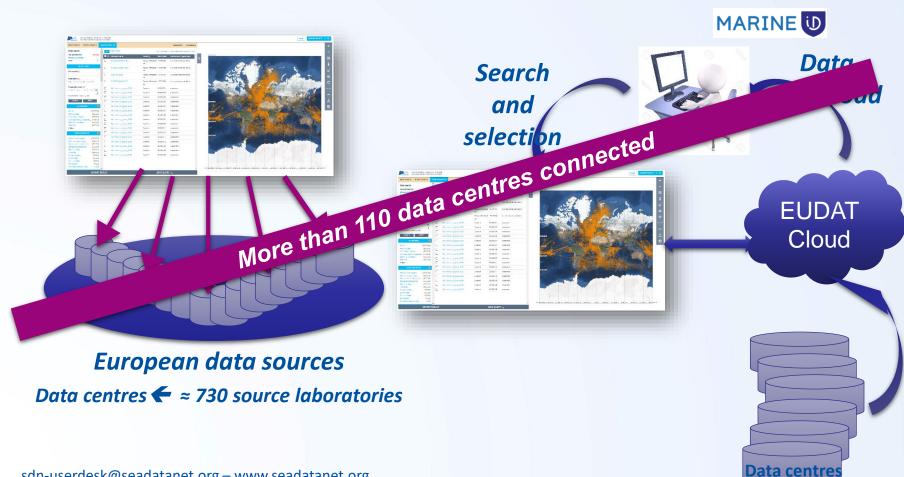


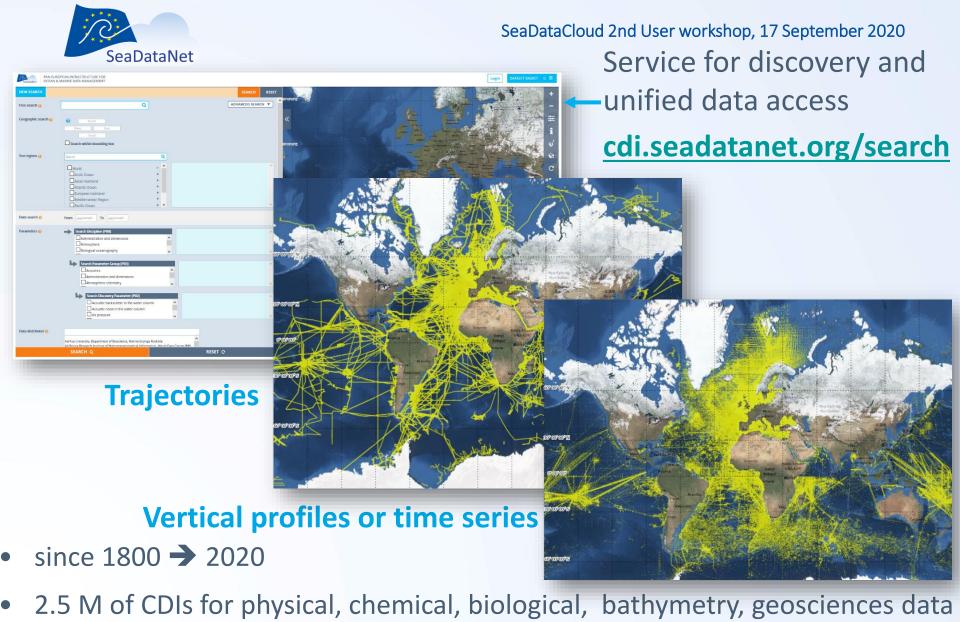
SeaDataNet metadata directories





CDI catalogue: discovery and access to data

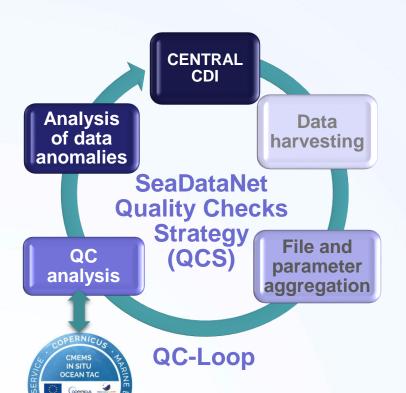


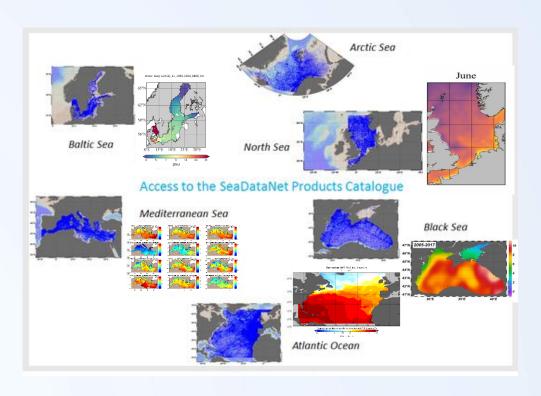


89 % of unrestricted or SDN license data



SeaDataNet products





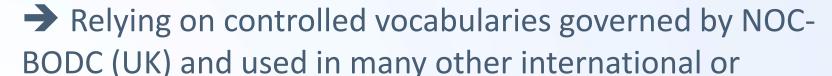
Aggregated datasets and climatologies

Improvement of the data quality



SeaDataNet standards

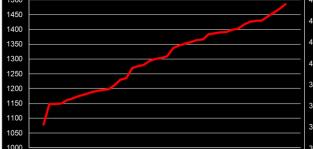
- Metadata formats for all catalogues
 - ISO19115 and ISO19139
- SeaDataNet data transport formats
 - ASCII (Ocean Data View, and MedAtlas)
 - NetCDF (CF compliant)



national initiatives 1500



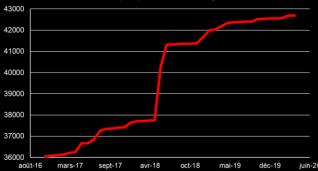














SeaDataNet software Tools (1)

- Tools for the data centres data managers
 - To be connected to the infrastructure and to be able to duplicate data in the cloud (Replication manager)
 - To follow the data downloading by users: MySeaDataCloud



To generate the data files at the SeaDataNet standards: NEMO

To check the compliance of the data files: OCTOPUS

To quality check the data: ODV



SeaDataNet software Tools (2)

- Tools for the users and data scientist
 - All catalogue search interfaces
- To visualise data, plot, analyse : ODV
- DIM To interpolate data: DIVA
 - to publish your data using Sensor Web standards
- SEANOE To publish marine data (and get a DOI): SEANOE
 - To work on datasets in the cloud environment :
 SDN Virtual Research Environment (VRE)
 - prototype available and used by the regional product leaders of the SDC project