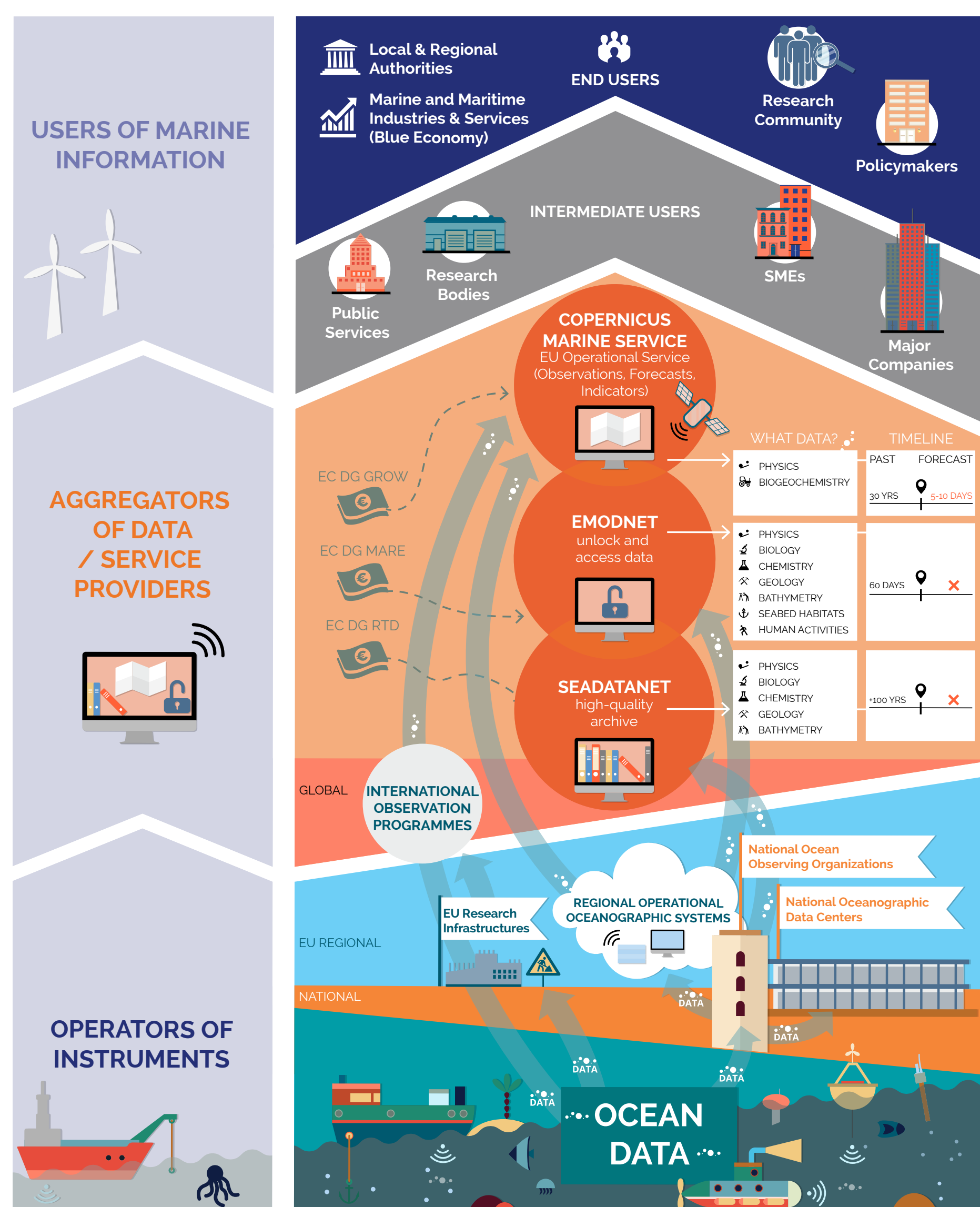


ABOUT SEADATANET

SeaDataNet is a major infrastructure in Europe for managing, indexing and providing access to ocean and marine data sets and data products, acquired from research cruises and other observational activities in European coastal marine waters, regional seas and the global ocean. Also, it develops and governs common marine standards for metadata and data formats, common vocabularies and quality flags as well as standard software tools and services for marine data management, which are widely adopted and used.

MAJOR PLAYER IN THE EU MARINE DATA MANAGEMENT LANDSCAPE

SeaDataNet core partners are National Oceanographic Data Centres (NODCs) and major marine research institutes in Europe. SeaDataNet cooperates with originators of marine data, comprising scientists collecting research data and governmental agencies, collecting data for environmental management and economic activities. SeaDataNet is a major partner in the development and operation of the European Marine Observation and Data network (**EMODnet**), aimed at supporting the EU initiatives on Marine Knowledge 2020 and Blue Growth and the Marine Strategy Framework Directive (MSFD). SeaDataNet drives the data discovery and access services in several EMODnet Thematic portals, while new data sets collected as part of EMODnet are added to the SeaDataNet data resources. SeaDataNet also has a close cooperation with the European operational oceanography community involving i) **EuroGOOS**, association of organisations committed to European-scale operational oceanography within the context of GOOS, ii) **Copernicus Marine Environment Monitoring Service** (CMEMS), deploying pan-European capacity for Ocean Monitoring and Forecasting, and iii) **Euro-ARGO**, developing a sustained global ocean monitoring system deploying Argo floats.



Moreover, several EU projects with data collection activities make use of SeaDataNet services for a sustained data management. For incoming data, SeaDataNet centres perform additional validation and quality control and ensure long term archival and access to the validated data sets. Together, these European blue data infrastructures are also pillars under the **Blue-Cloud project**, which aims at piloting a cyber platform providing access to multidisciplinary data, analytical tools, and cloud computing facilities, in support of research for better understanding and managing the many aspects of ocean sustainability.

Powerful and versatile User Interface

CDI DATA DISCOVERY AND ACCESS SERVICE

The CDI service provides unified discovery and access to marine and ocean datasets managed by the distributed data centres. Users can request access to datasets in a harmonised way, using a shopping basket. Progress of requests and download in the SeaDataNet standard formats is available via an online dashboard. During the SeaDataCloud project the system has been upgraded, adopting cloud technology and innovating all its functionality and related services to access FAIR data. The search interface supports combinations of controlled terms, drill-down via facets, and a powerful free text search on all metadata. The combination of SQLServer database, Elastic Search, and GeoServer guarantees high performance for querying the large number of data sets.

[HTTPS://CDI.SEADATANET.ORG/SEARCH](https://cdi.seadatanet.org/search)

Detailed metadata per data set

Global coverage

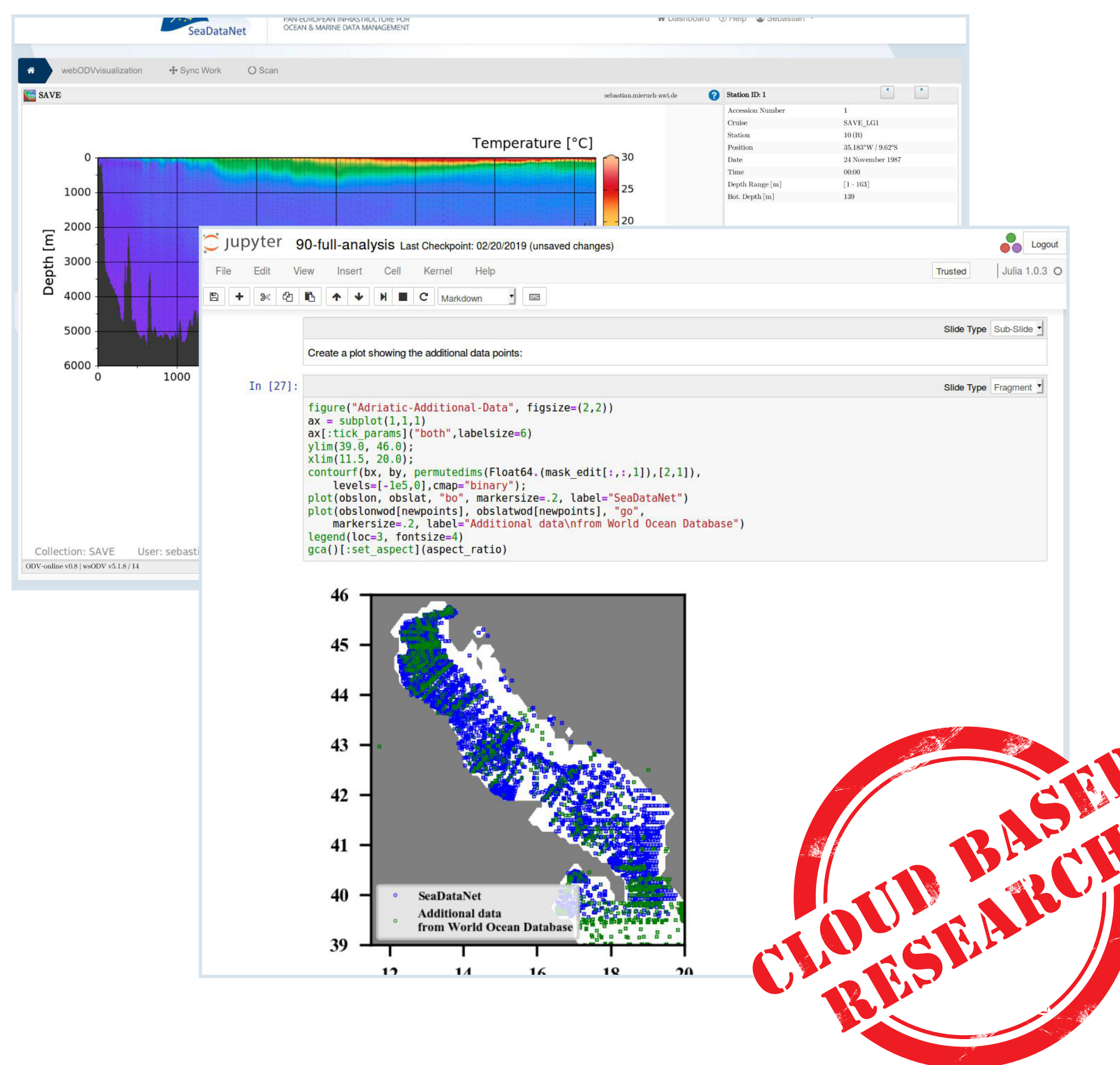
MyCDI for easy ordering and downloading

- > 2.3 MILLION DATA ENTRIES
- > 700 DATA ORIGINATORS

- PHYSICS, CHEMISTRY, BIOLOGY, GEOLOGY, GEOPHYSICS
- 110 DATA CENTRES CONNECTED FROM 34 COUNTRIES

VIRTUAL RESEARCH ENVIRONMENT

SeaDataNet offers a VRE with cloud based services to work with marine data. This means: No more downloading of big data, direct processing near the data. The VRE allows cooperative research on a common platform, with always the latest version of software. The VRE offers various Virtual Labs, a service layers, a central data



workspace and is accessible via your Marine-ID. It currently supports Temperature and Salinity data product generation, but will be expended in next years to more Virtual Labs to work with SeaDataNet datasets.



TRAINING AND CAPACITY BUILDING

SeaDataNet offers capacity building by training workshops for uptake of standards and tools by the data centres in order to achieve standardisation. All workshops are recorded and are accessible for the global community of users.