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Recent developments in oceanographic data and information system for Polish NODC initiative

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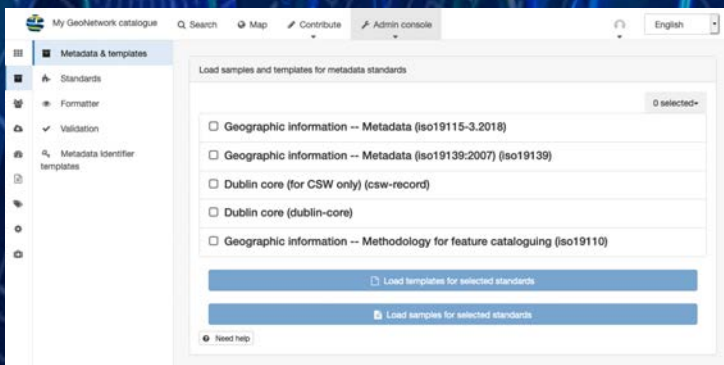
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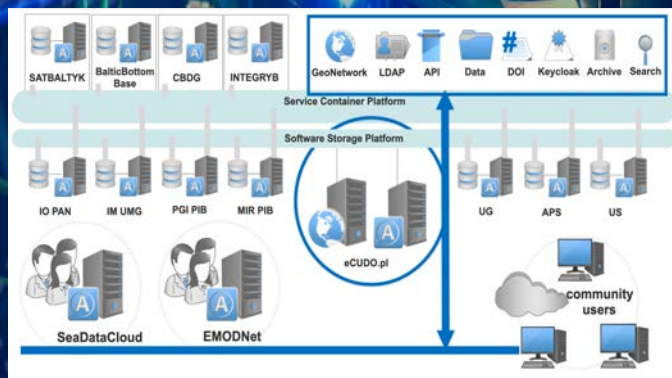


The project aims to harmonize Polish oceanographic data release and open access, make them interoperable through implementation of committed standards for information structure and communication protocols INSPIRE compliant. The project intends to develop and deploy distributed infrastructure for data management, and providing of FAIR and open access to oceanographic data resources.

- 7 organisations
- 3.5M EUR budget
- up to 4 000 000 data objects to be digitized and open for community
- up to 500TB of data
- 5 * Open Data Model and FAIR assured data provision
- WCAG 2.0 conformed interface for human interaction
- M2M interface for interaction with outer systems



Organizations engaged into system development are used to exploit data management infrastructures they have already deployed for their own purposes. These solutions are based on different technologies and every local instance of the system has to interface to these existing solutions, but provide unique access conditions and information structure on upper layer of data provisioning.



Development and deployment of the unified system providing access to distributed data resources as managed by the key scientific oceanographic institutes in Poland will trigger and provide added value for national economy through increase of data availability for all levels of administration, with simultaneous decrease of the total cost of data acquisition, management and exchange.

Unified data formats and protocols will boost the development of the services based on environmental data. Advanced services provided for clients (including data analysis services) extend availability of oceanographic data both to Polish and European organizations.

System will be open for all stakeholders and ready to accommodate other organizations and their data sources. Up to now cooperation has been agreed with Ministry of Climate, Ministry of Maritime Economy and Inland Navigation – System for Spatial Information of Maritime Authorities, as well as with the Institute of Meteorology and Water Management NRI.

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