Session 2 Report

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IMDIS 2013

IMDIS 2013 Lucca, Italy Session 2 Chair Report



Session 2: Marine Environmental Databases: Infrastructures and Data Access Systems

- Abstracts:
 - 46 total selected
 - 18 oral
 - 28 posters



Marine Environmental Databases: Infrastructures and Data Access Systems

Emergent theme:

CONNECTING OUR ISLANDS of resources from different disciplines to connect people to data

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WHAT are we connecting?

- resources, standards and environmental data to reference datasets, data in different formats and from different disciplines, and ultimately connecting the users to the data
- In situ data with remote sensing data



WHAT are we connecting?

- across boundaries, disciplines (including some projects that are integrating social science and natural science data)
- sectors: commercial, public authorities and research data

OBSERVATION:

Need to support machine to machine connectivity is driving many changes



HOW are we connecting?

- Adapt and adopt
 - standards, technologies, processes and approaches proven in previous projects
- Strategic use of standards (e.g. OGC, ISO, W3C) and controlled vocabularies
- Building and using tools (e.g. CSR/CDI, ODV, NVS)
 - Cruise Summary Report/Common Data Index (to locate and describe data)
 - Ocean Data View (to view data)
 - NERC Vocabulary Server (to discover and interpret data)



HOW are we connecting?

SeaDataNet and Geo-Seas



- INSPIRE and EMODnet compliance
- Negotiating frameworks for sharing data, information and knowledge
- Modifying data access and delivery systems by listening to user/community feedback
- Support for popular export formats
 - netCDF, ODV, XML



HOW are we connecting?

 because of the diversity of users and their requirements, systems must be easy to use and provide access to reliable data and information



WHY are we connecting?

- To connect users with
 - data
 - homogeneous results
 - federated data sets
- data from different projects, regional and national systems to extend geographic and disciplinary coverage



WHY are we connecting?

- to provide unified access to data by building on existing infrastructure to enable users/clients to discover, view, and download data
- increase in data volume and data availability has lead to increased demand for new services (e.g. integrated data products, support for mutildimensional analysis and additional data visualization)



CHALLENGES

- heterogeneity of data types, formats, sampling coverage (time/space), and users/use cases
- QC is difficult for some data types because of insufficient historical data
- providing data to coordinating projects and directives in a sustainable way



Wisdom from IMDIS 2013

- But for all the automations and innovations ... good data management practices remain the basic prerequisites for an efficient data discover and access system. (after Che-Bohnenstengel and Nast, 2013)
- You don't have to suffer to do good data management. (after Monk, 1969)



