iMarine

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Outline

1. Project Info & Objectives (D. Castelli)

2. e-Infrastructure selected capabilities (A. Ellenbroek)

3. e-Infrastructure governance (M. Taconet)

4. Concluding remarks (M. Taconet)
iMarine project info

- Research Infrastructures CP & CSA funded by the European Commission under the FP7 Capacities Programme - eInfrastructure Unit DG INFSO
- 1 Nov 2011 - 30 Apr 2014
- 13 partners
- 660 p/m co-funded by EU + 123 p/m in-kind contribution from externals collaborators
iMarine Community

Species 2000

Marine Knowledge All Projects meeting,
11-12 October 2012
Launch an initiative aimed at establishing and operating an e-infrastructure contributing to the implementation of the principles of the Ecosystem Approach to Fisheries Management and Conservation of Marine Living Resources.
Implementing the EA

- Analysis and processing of a large amount of heterogeneous, across-domain produced information
- Multidisciplinary & multifacets collaboration at the local, national, regional and international levels
e-Infrastructure

Electronic platform operated by a responsible entity offering an open set of basic enabling services (including access to resources) to a distributed Community of Practice. By exploiting these shared services the members of the Community of Practice realise economies of scale.
«The creation of the marine knowledge begins with the observation of the sea and oceans. Data from these observations are assembled, then analysed to create information and knowledge. Subsequently, the knowledge can be applied to deliver smart sustainable growth, to assess the health of the marine ecosystem or to protect coastal communities.»

*Marine Knowledge 2020 Communication*
iMarine offer

Assemble

Analyse

Production

Functionality

Capacity

Marine Knowledge All Projects meeting,
11-12 October 2012
Building upon existing e-Infrastructures
e-Infrastructure ecosystem

- **Interoperability**
  - Each e-Infrastructure can outsource required facilities to other e-Infrastructures
  - The same e-infrastructure can play both provider and consumer roles

- **Competition**
  - The most effective and sustainable e-Infrastructures will survive
Data infrastructure components

- e-Infrastructure software system
- Physical architecture (computing & storage resources)
- Data & sw tool resources
- Governing procedures and policies
Functionality classes

Data import & sharing

Data harmonization, validation and enrichment

Data transformation, publishing and visualization

Advanced data analysis

Collaborative environments (Virtual Research Environments)

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Data resources

- FIGIS (reports)
- MyOcean (environmental data)
- GENESI-DEC (earth observation data)
- DRIVER (publications)
- OBIS (marine species data)
- GBIF (occurrence points)
- Catalogue of Life (taxonomy)
- WoRMS (marine taxonomy)
- ITIS (taxonomy)
- FAO SDMX Registry (statistical data)
- AquaMaps (species maps)
- FLOD (open linked data)
- Geonetwork (georeferenced data)
- ....

Everything accessible through
  - TAPIR, DigiR, OAI-PMH, OpenSearch, OGC W*S, SDMX, ....
**Products**

- **The initiative**
  (CoP, board, policies, sustainability, .....

- **The e-infrastructure**
  (the operational platform)

- **The system**
  (the enabling sw system)
We are not starting from scratch