

# iMarine

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A blue wave graphic is located at the bottom left corner of the slide, mirroring the style of the logo at the top.

# 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 external collaborators

# iMarine Community



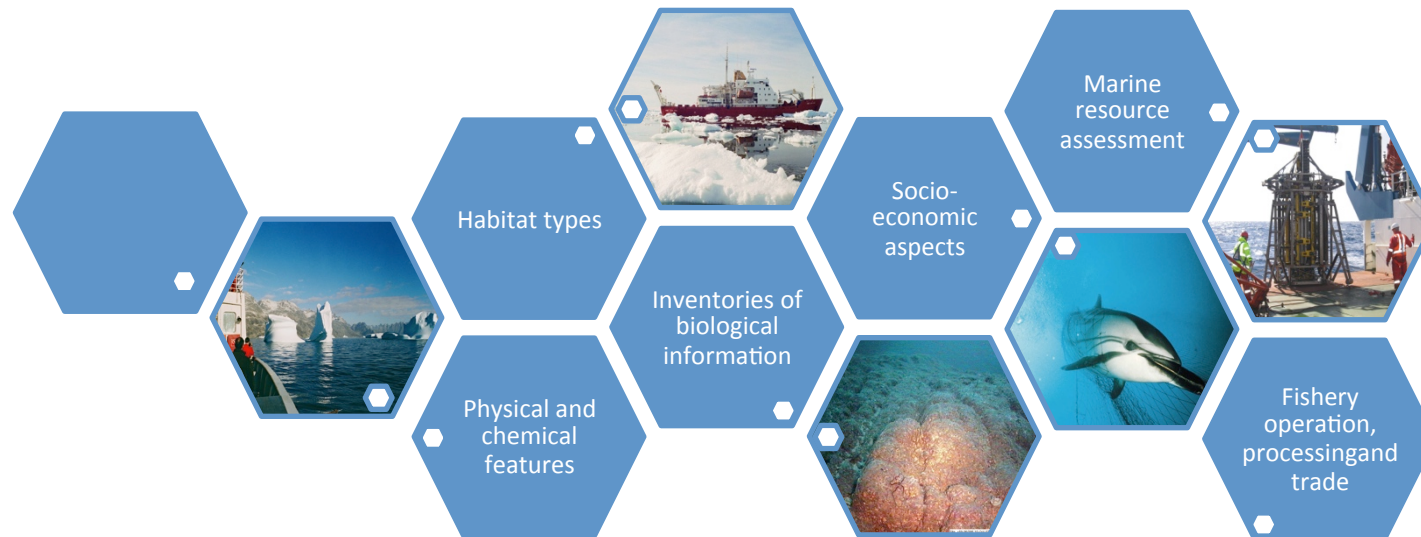
# Objective

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**.



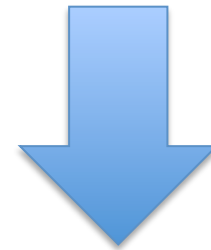
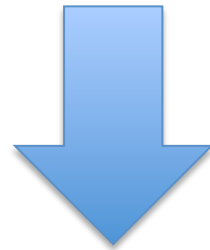
# iMarine focus



«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



**Functionality**

**Capacity**



# Building upon existing e-Infrastructures



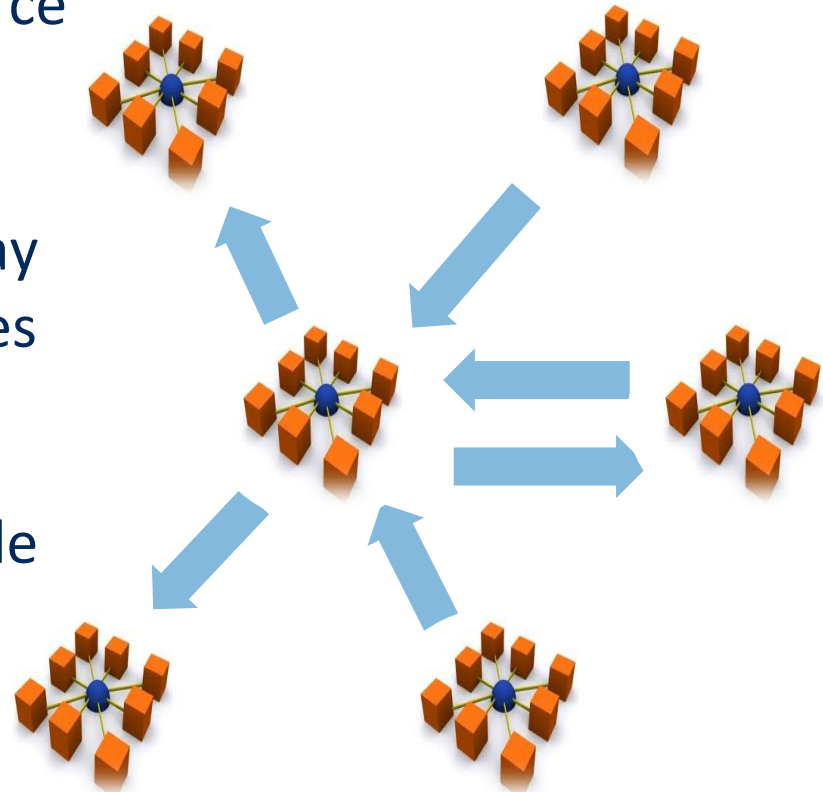
# e-Infrastructure ecosystem

- **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

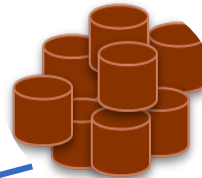


# Data infrastructure components

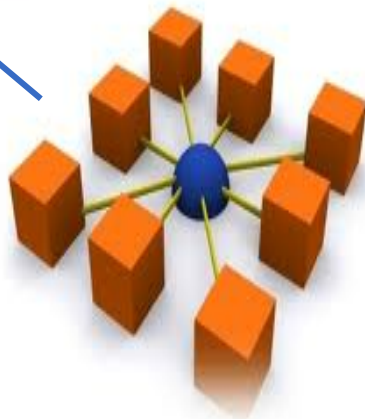
e-Infrastructure software system



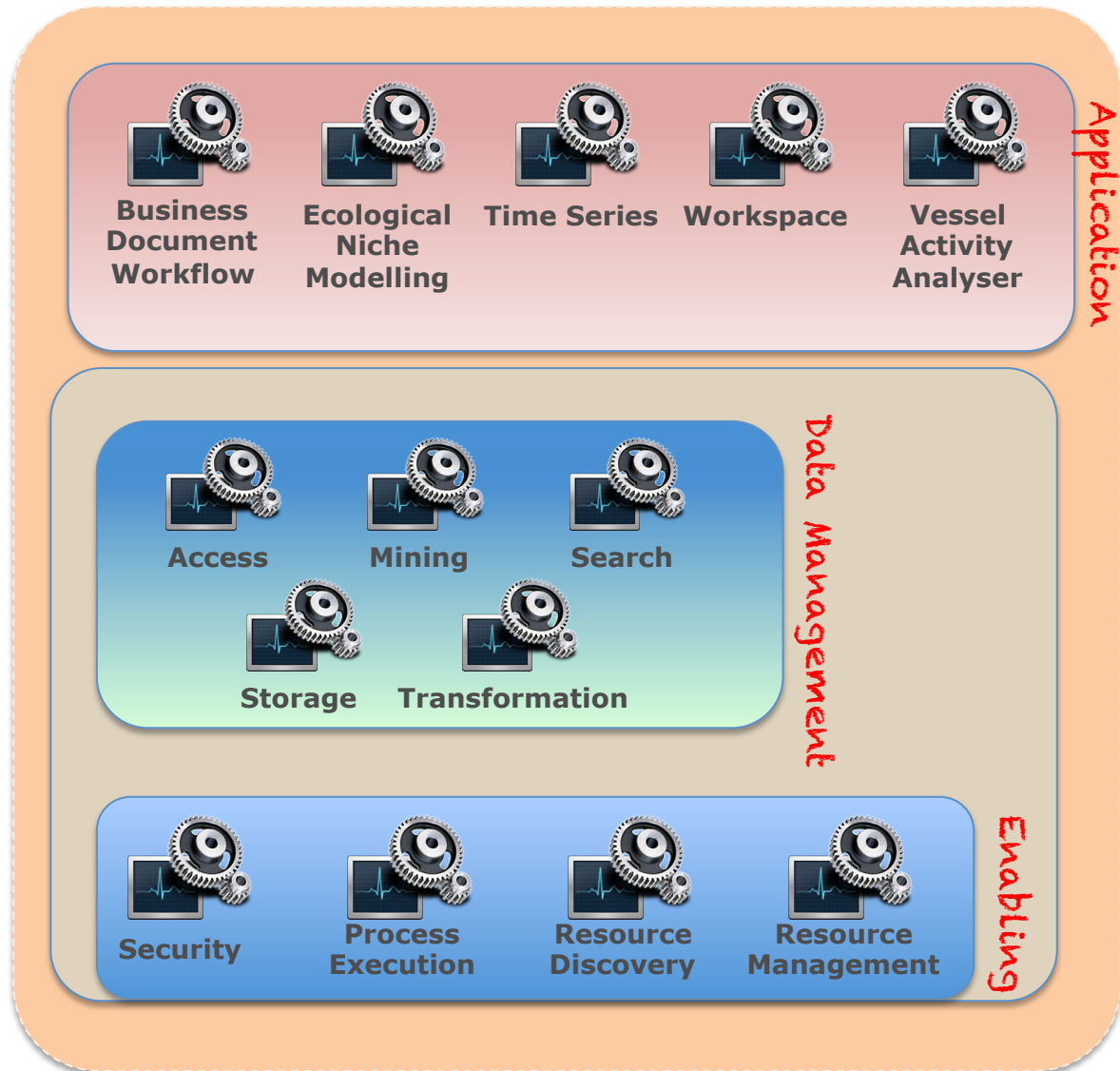
Physical architecture  
(computing & storage resources)



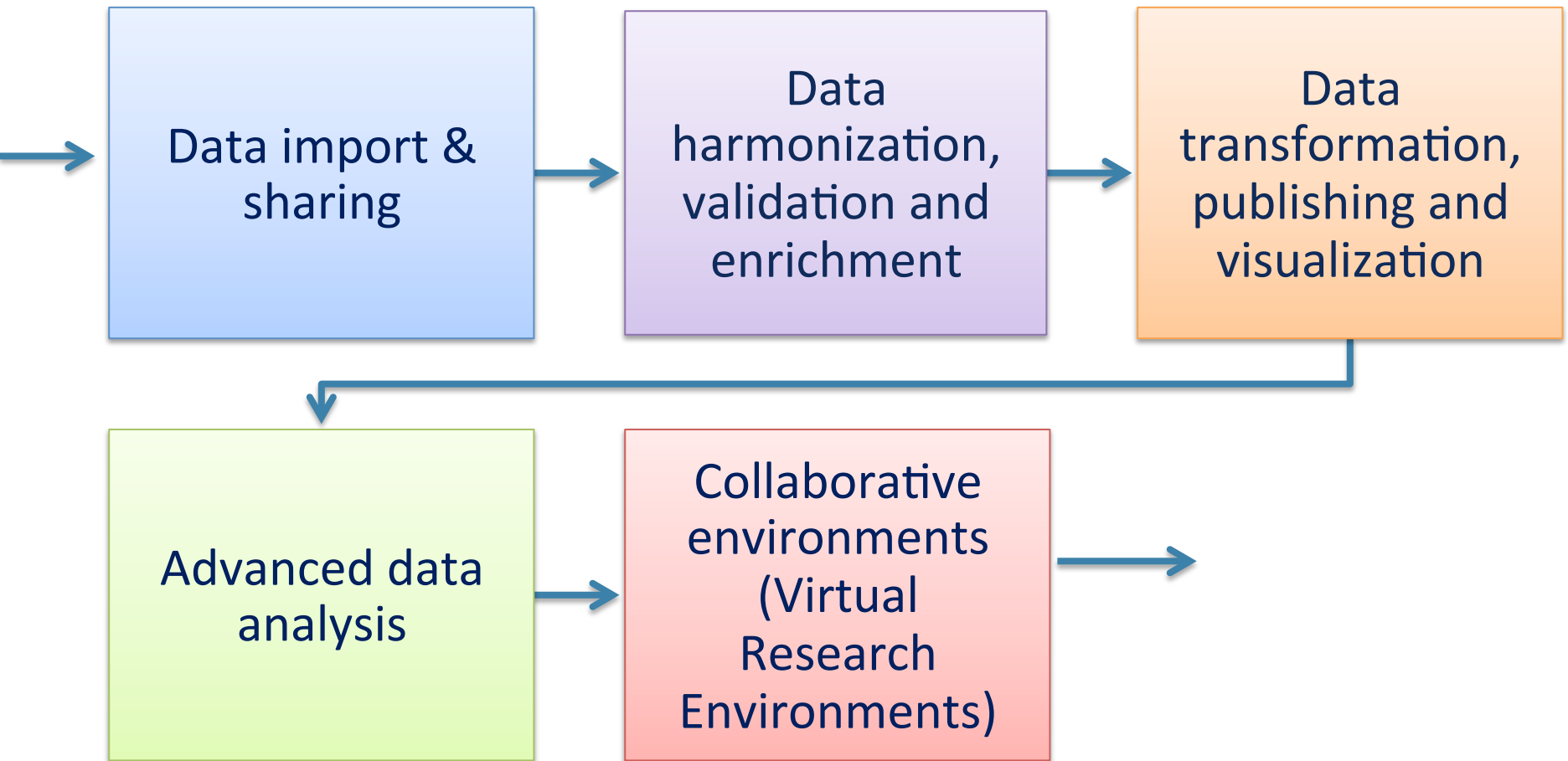
Data & sw tool  
resources



Governing procedures  
and policies



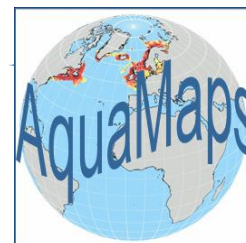
# Functionality classes



- 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,....



-> GENESI-DEC



# 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

