



d4SCIENCE

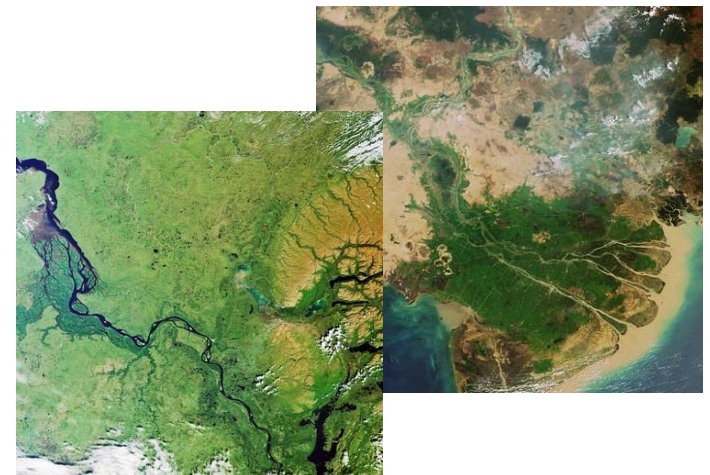
Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

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Introduction

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“The project will deploy, progressively consolidate and expand the e-Infrastructure built so far by the DILIGENT project so that they address the needs of scientific communities affiliated with the broad disciplines of Environmental Monitoring and Fishery and Aquaculture Resources Management”



- Addressing ES challenges requires **cross-domain research** involving scientists and resources from different institutions, disciplines and countries

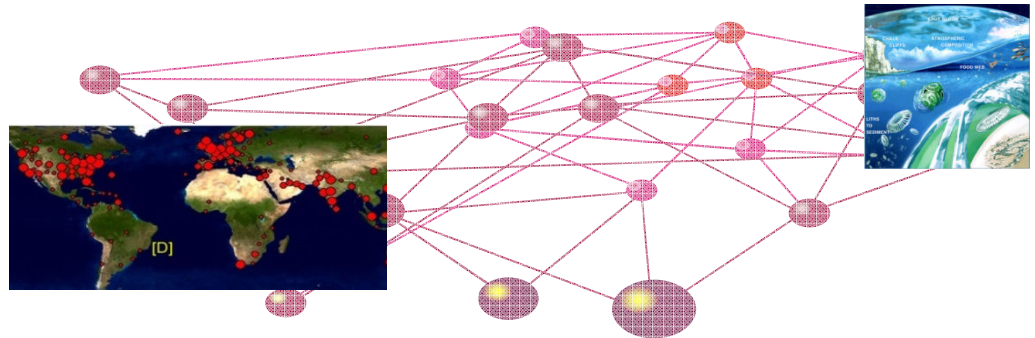
- **Resources:**

- computational resources
- publications, reports, timeseries, images, taxonomies, ontologies, gazetteers, etc.
- tools

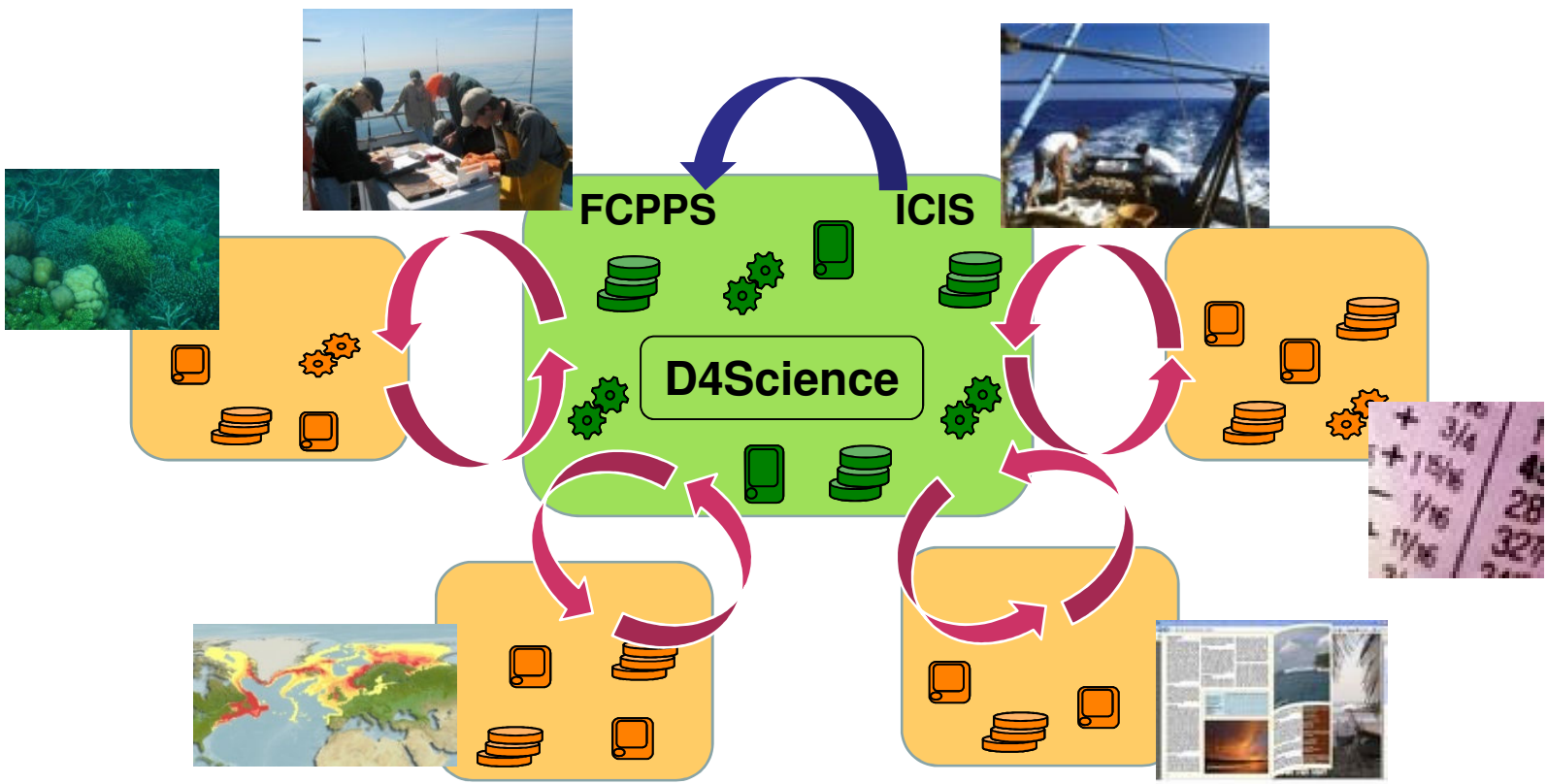


- **“Mapping biodiversity hotspots and assessing impact of climate change”**, *Kristin KASCHNER (FAO, University of Freiburg - Faculty of Biology)*
- **“LifeWatch - e-Infrastructure for Biodiversity Research”**, *Axel POIGNE (Fraunhofer Institute IAIS)*
- **“Earth Science activity on Grid and its future”**, *Monique PETITDIDIER (LATMOS/IPSL)*

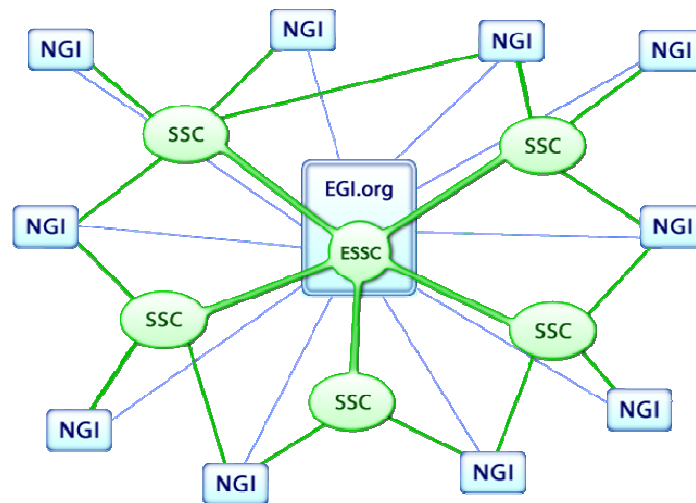
- Access to EGEE
- Build a middleware which offers capabilities for sharing, curating, accessing heterogeneous “data resources” and for supporting the necessary knowledge production workflows
- Define procedures and policies for managing D4Science resources



- **“Virtualizing research environments to hamper the complexity: D4Science solution for data sharing, manipulation, and analysis”**,
Pasquale PAGANO (CNR-ISTI)



- Which organisational & technological path should the ES related infrastructures follow in the future?
- Which is the role of EGI and of the SSCs in this path?



4D4Life

"Federating Environmental Science resources: Is the EGI proposed pathway the right one?"

Vangelis Floros (GRNET)

Pasquale Pagano (CNR-ISTI)

Monique Petitdidier (LATMOS/IPSL)

Axel Poignè (Fraunhofer Institute IAIS)