

16th Lme

Meeting with
Coastal Partners

Paris (FR) 8 - 11 July 2014



iMarine initiative

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Statistics and Information Branch**

Session: **2**

Day of presentation: **9 July 2014**



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Launch an Initiative aimed at establishing and operating a data Infrastructure supporting the implementation of the principles of the
Ecosystem Approach
to Fisheries Management and Conservation of Marine Living Resources

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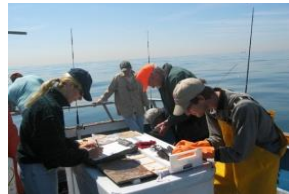
A decorative banner at the bottom of the slide featuring a collage of various maps, including world maps, regional maps, and satellite imagery of coastal areas.

1. What is a Data infrastructure

What is a data infrastructure

Virtual Research Environments (VRE)

– Enabling scientific communities to collaborate



VRE



VRE

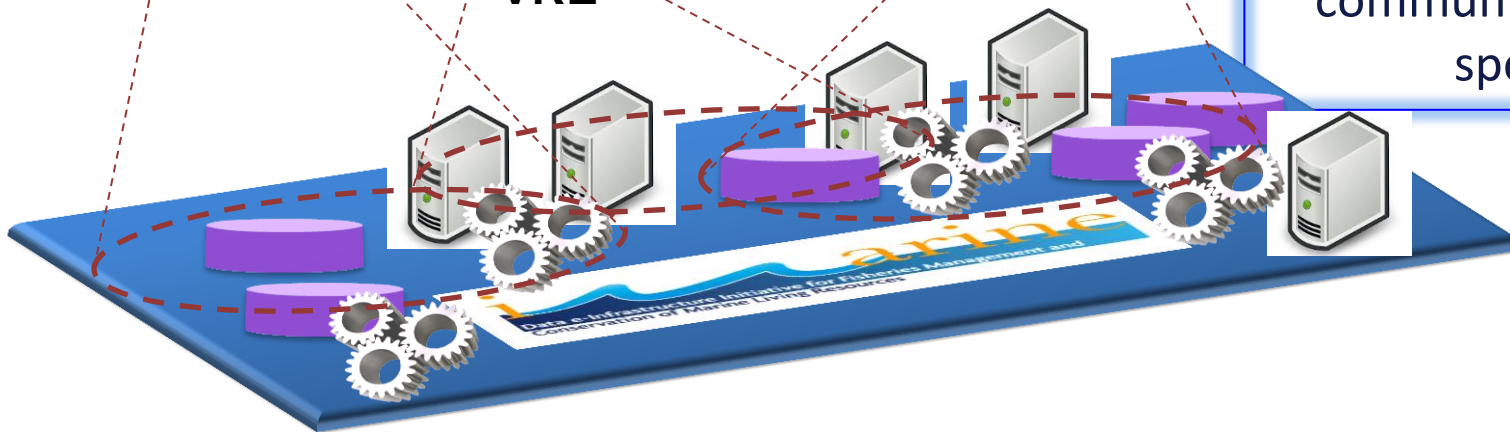


VRE

VRE = virtual laboratory;

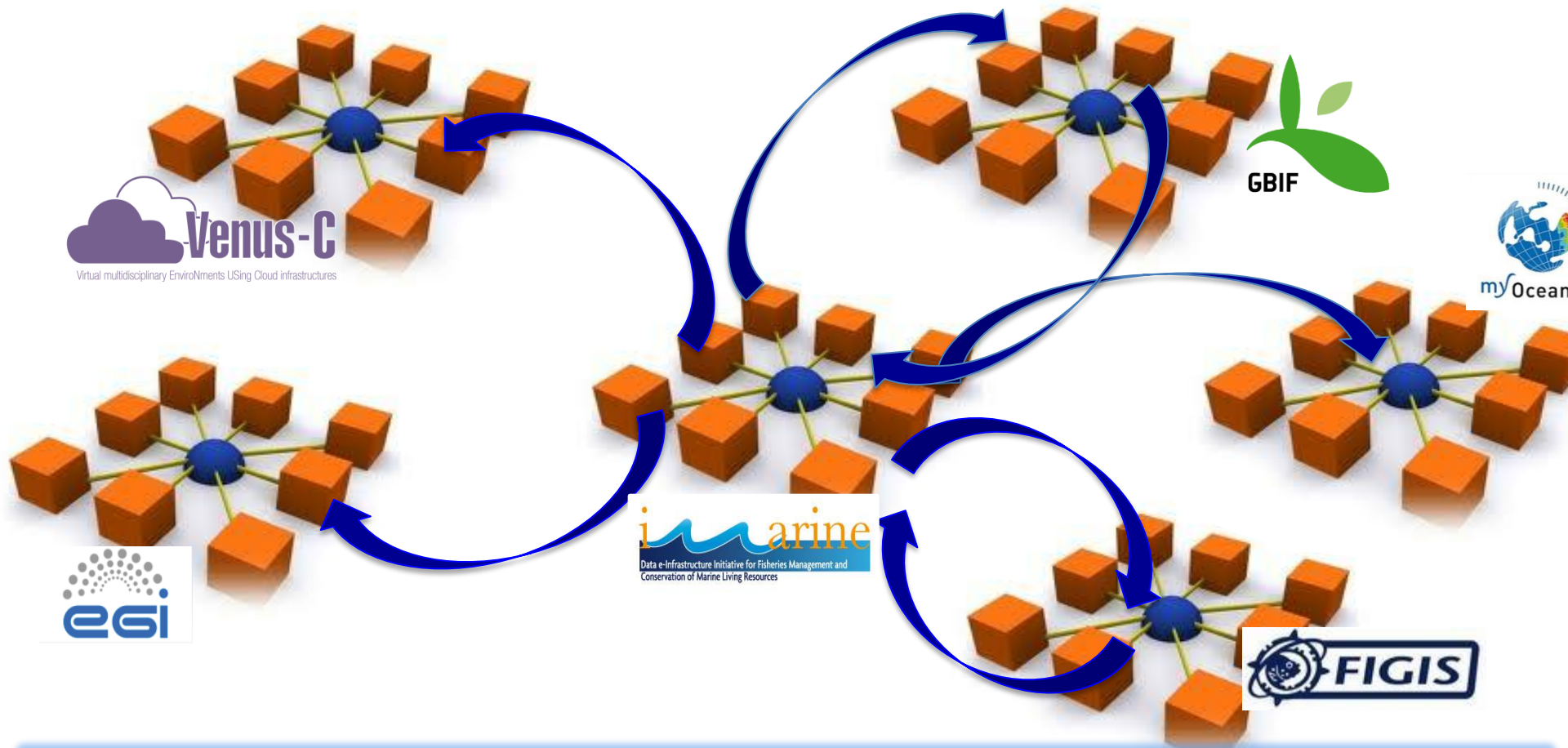
flexible, and secure Web-based working environment,

configured to serve the application needs of a community working for a specific goal



What is a data infrastructure

iMarine - an ecosystem of infrastructure



iMarine is fundamentally a distributed infrastructure
Its overall coherence however builds on the existence of a central conductor

1. What is a Data infrastructure

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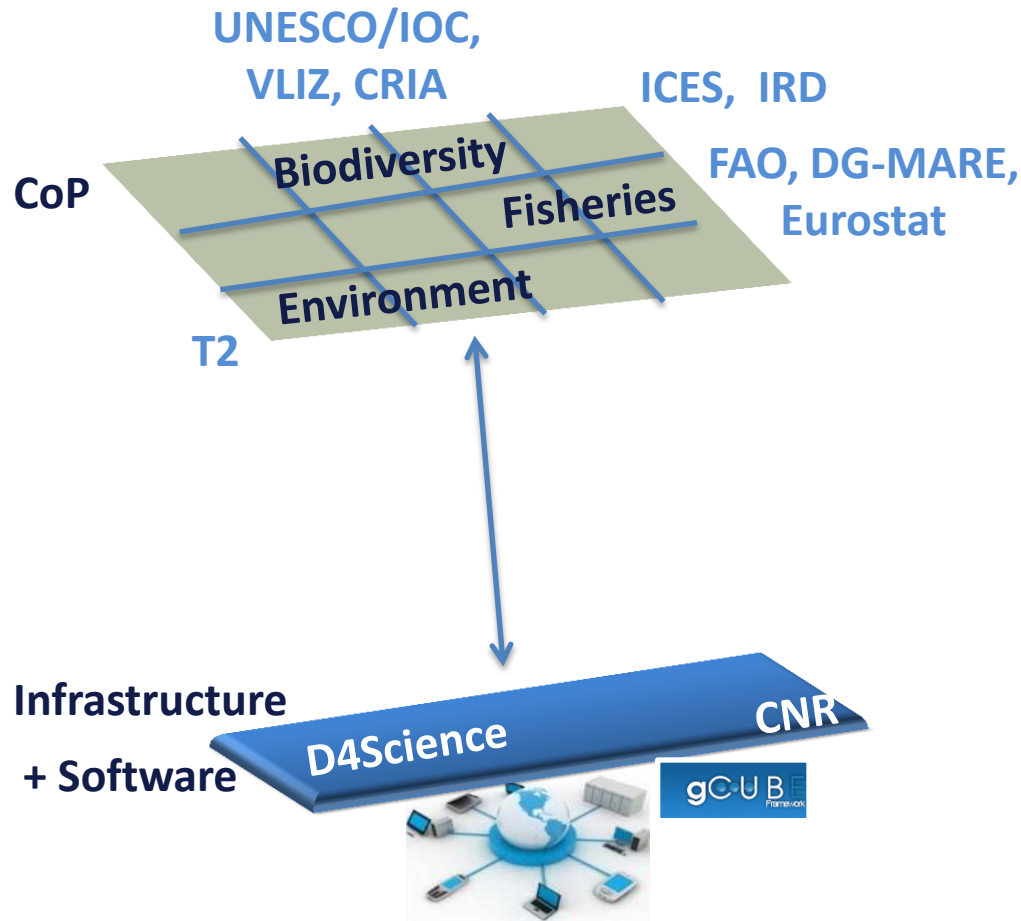
- 1. What is a Data infrastructure**
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A horizontal banner at the bottom of the slide featuring a collage of various marine maps and geographical data visualizations in shades of blue, green, and orange.

2. How iMarine fulfills data needs in support of the EA

iMarine project governance

iMarine Board – enables EA Community Governance



iMarine Board (CoP Governance)

- **Data policies**
- **CoP requirements**
- **Liaison / brokering role**

Technology providers

- **Infrastructure Management and operations**

2. How iMarine fulfills data needs in support of the EA

the EA policy framework

Data needs calling for cross-domain connections

1. Fine grained catch & effort , through big data management, or reallocation of aggregated time series

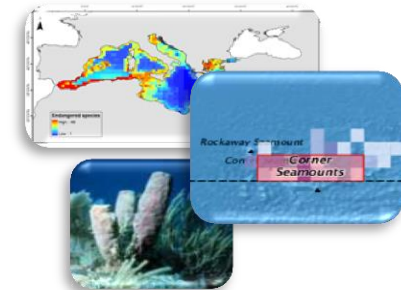
→ for resources assessment, management of fishing quota, fishing impact assessments



2. Biodiversity mapping, mapping of sensitive or fragile habitats

→ to monitor health and trends of ecosystems

→ for spatial measures aimed at reduction of adverse impacts of fishing activities (e.g. VMEs)



3. Comprehensive knowledge bases

→ to support data quality improvement, comprehensive monitoring of policies implementation through integrated dissemination



2. How iMarine fulfills data needs in support of the EA



iMarine current value proposition

Cover data needs for whole EA policy life-cycle

Collation and sharing campaigns

MyOCEAN
WORLD OCEAN
ATLAS

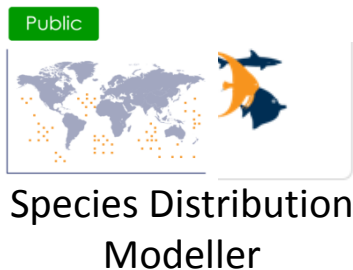
GBIF
EoL
WoRMS
OBIS

FISHBASE
FAO-FISHFINDER

FAO-FISHSTAT

FAO FISHING
AREAS
MARITIME
BOUNDARIES

EA assessments



AQUAMAPS

TRENDYLIZER

FISHBAYES

TUNA ATLAS

SPREAD

VMS TO
SCIENCE

Policy implementation & monitoring strategies



Fact sheets manager



APPLIFISH

CHIMAERA

2. How iMarine fulfills data needs in support of the EA

How can iMarine serve the global LME goals

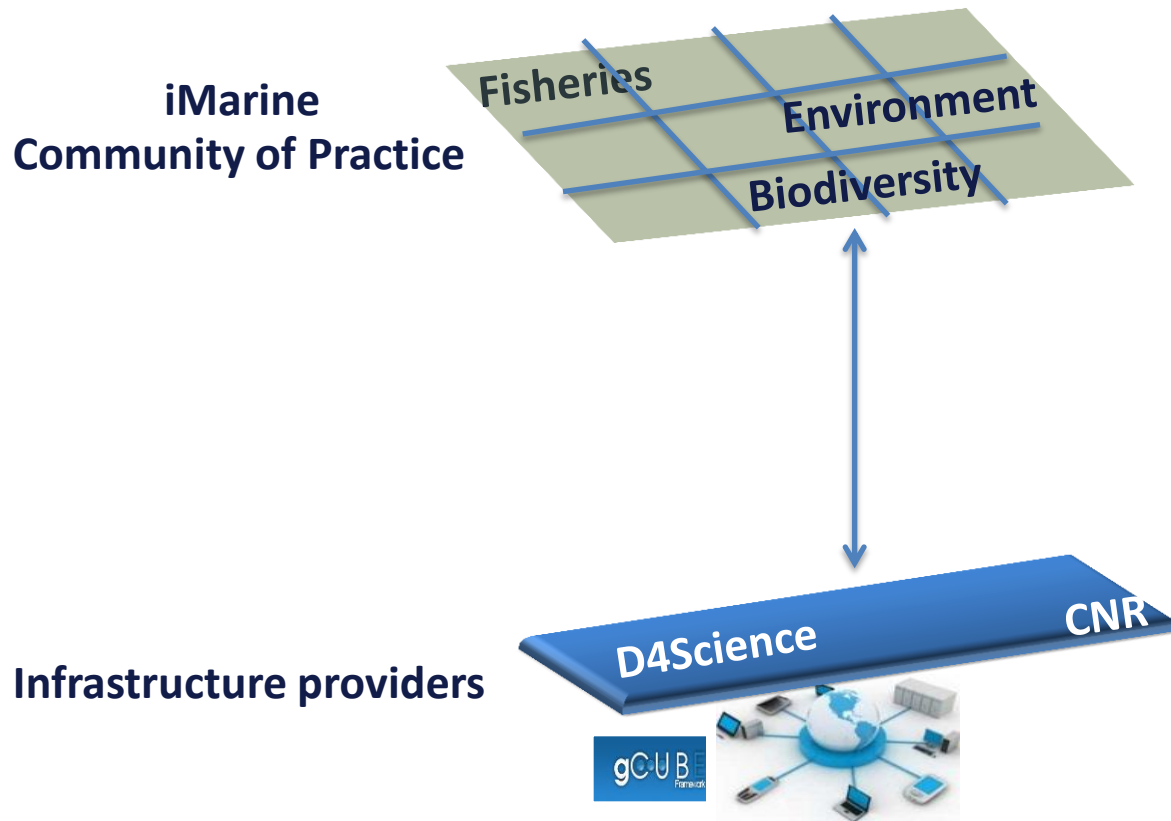
The answer requires to consider:

- Current scope and potential for extensibility
 - substantial overlap between iMarine current EA scope and LME scope
- Sustainability and Governance



Potential for extensibility

The D4Science infrastructure is generic and extensible



D4Science
products catalog



3. How iMarine can serve global LME goals



Sustainability and governance

iMarine Stakeholders support development of a Public Partnership centered business model

Benefits established by the involved agencies

- Facilitated access to a comprehensive Data catalogue
 - Integrated analyses, data quality improvements, packaged information products
- New capacities become available
 - Computing performance, harmonization services, cross-domain scientific collaboration through virtual research environments
- Increased cost efficiencies
 - Software solutions are pooled and reused
 - Cloud hosting solution

3. How iMarine can serve global LME goals



Sustainability and governance

iMarine consortium and Board support development of a Public Partnership centered business model

Baseline model

- Acknowledges the current EA scope
- Ensure maintenance of assets achieved at the end of project
- Builds on partners in-kind contributions

Growth model

- Explores broader market
 - Ecosystem services; serving LME requirements
- Entry point – initiate pilots through existing projects

3. How iMarine can serve global LME goals



THANK YOU FOR YOUR ATTENTION

- Visit iMarine gateway at



<http://www.i-marine.eu/Pages/Home.aspx>

ask for user registration to explore

<https://portal.i-marine.d4science.org>

And apply as member of the iMarine extended Board

