LifeWatch first steps

Cross-border joint procurement session
EGI Conference 2015 in Lisbon

Presented by
Jesús Marco de Lucas
IFCA-CSIC, Spain

www.egi.eu

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What is exactly LifeWatch?

• LifeWatch is an e-science and technology infrastructure for biodiversity and ecosystem research to support the scientific community and other users.

• It is putting in place the infrastructure and information systems necessary to provide an analytical platform for the modeling and simulation of both existing and new data on biodiversity to enhance the knowledge of biodiversity functioning and management.

• Example of case studies:
  – Invasive species
  – Evolution of wetlands
  – Evaluating the ecological quality of habitats
LifeWatch, status and perspective

• **LifeWatch is an ESFRI**
  – **ERIC being signed this year, 2015**
  – Roadmap for next 5 years is prepared
    • large investment
    • cash & in-kind contributions from the countries

• **Countries participating with different implication levels:**
  – **Spain** (statutory seat, e-infra), **Italy** (service center), **Netherlands** (Virtual Labs)
  – **Belgium, Greece, Portugal**
  – Observing: Norway, Sweden, Finland, Hungary, Slovakia, Romania, Slovenia
  – Interested: France, Germany

• **Key meetings related to procurements:**
  – **Workshop on Structural Funds distributed e-Infrastructures ESFRI ENV**
    • Organized in Brussels with strong support from Spanish Ministry (F:Ballestero, J.M. Gonzalez-Aranda)
  – Strategic Plan Discussion
    • Malaga, Feb 2015
Progress with LW e-Infrastructure Implementation

A pilot project to understand the global framework:

Adaptation and improvement of the e-Infrastructure ICTS-EBD

- Funded by Ministry+Struct Funds (CSIC commissioned to execute it)
  - Setup an operational framework supporting from basic services to advanced data processing and collaborative work
  - Improve the sensor monitoring network at Doñana
  - MATCH & INTEGRATE ICT Services

Four actions:

1. Overview of the Research Infrastructure

 ICT e-Infrastructure
- servers (cloud oriented + HTC/HPC), storage (>1PB), 10GB network
- methodology for services design completed in 2015
- Implementing services

Integration of the network of sensors

- Conditioning for in-situ data process at RBD (Natural Reserve)
- New sensors and observational setups

5th LifeWatch e-Infrastructure Construction Operational Meeting
2-the foreseen computing model

Global Scheme

USER APPLICATIONS

Portals Visualization LifeRay

COMPOSITION

Open Data & Preservation Platform

Platform for Collaborative Framework

Distributed Control Platform

SOA/ Cloud Computing

RESOURCES

“External” Data

“Internal” Data

SITE

Network Storage Servers

SITE

5/20/2015
Thank you for your attention.

Questions?

5- issues and outstanding questions about resource provisioning

You are invited to the LW CC meeting at 17h Thursday 21st