



# **Ground European Network for Earth Science Interoperations**

## **Digital Repositories**

**GENESI-DR**

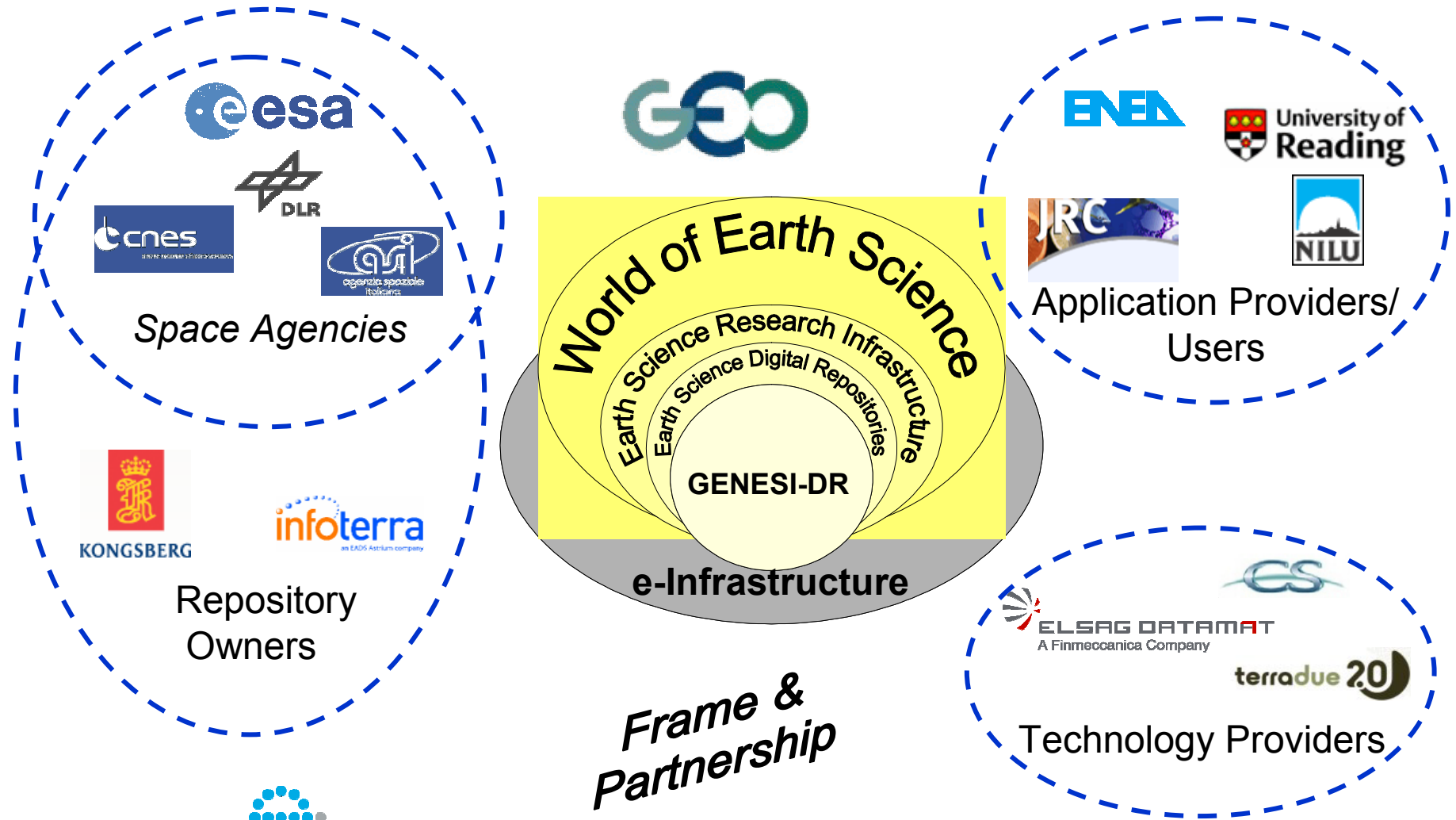
**and the role of standards...**

**INFRA-2007-1.2.1 • Scientific Digital Repositories**  
**Duration • January 1, 2008 – December 31, 2009**  
**Proposal no. • 212073 Total EC funding • 4.4 M€**

**For scientists to access and  
share seamlessly  
observations of the Earth  
System and derived  
information and knowledge**

**Contact: [Joost.van.Bemmelen@esa.int](mailto:Joost.van.Bemmelen@esa.int)**

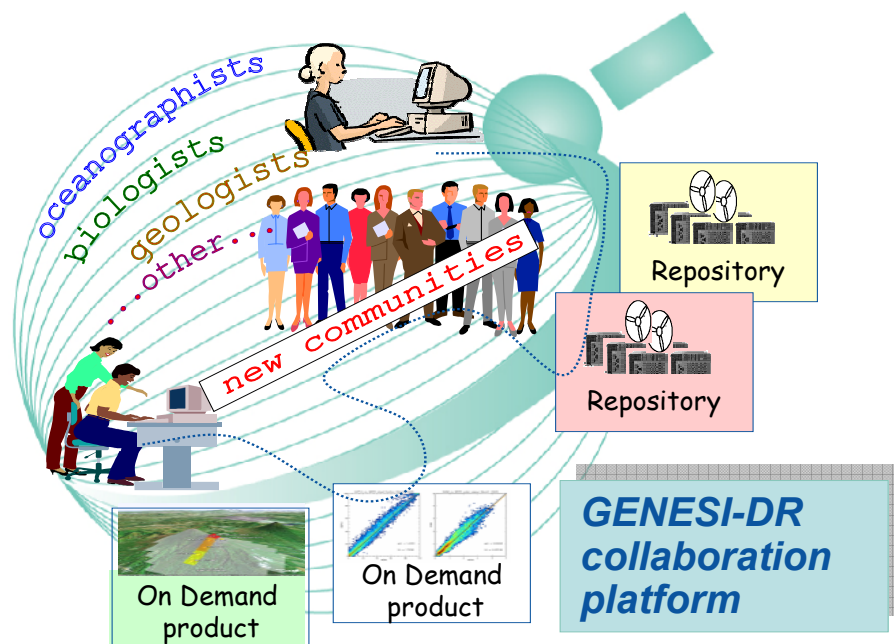
# Consortium members



# Project objectives

## For Earth Science users

- To provide **reliable, easy, effective access** to PB's of heterogeneous Earth Science data
- To **harmonise data access operations**
- To demonstrate data **curation** and prepare for **long term preservation**
- To validate DR access capabilities for **new communities**, including **education**
- To integrate emerging **technological paradigms** in operational infrastructures responding to emerging requirements



# Work plan outline

- **Networking Activities**

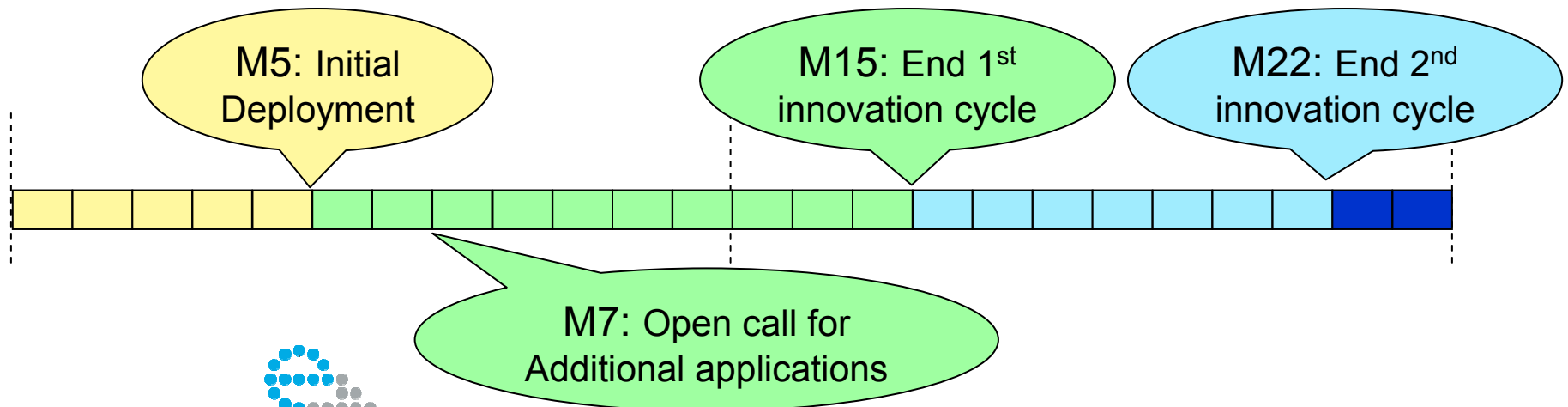
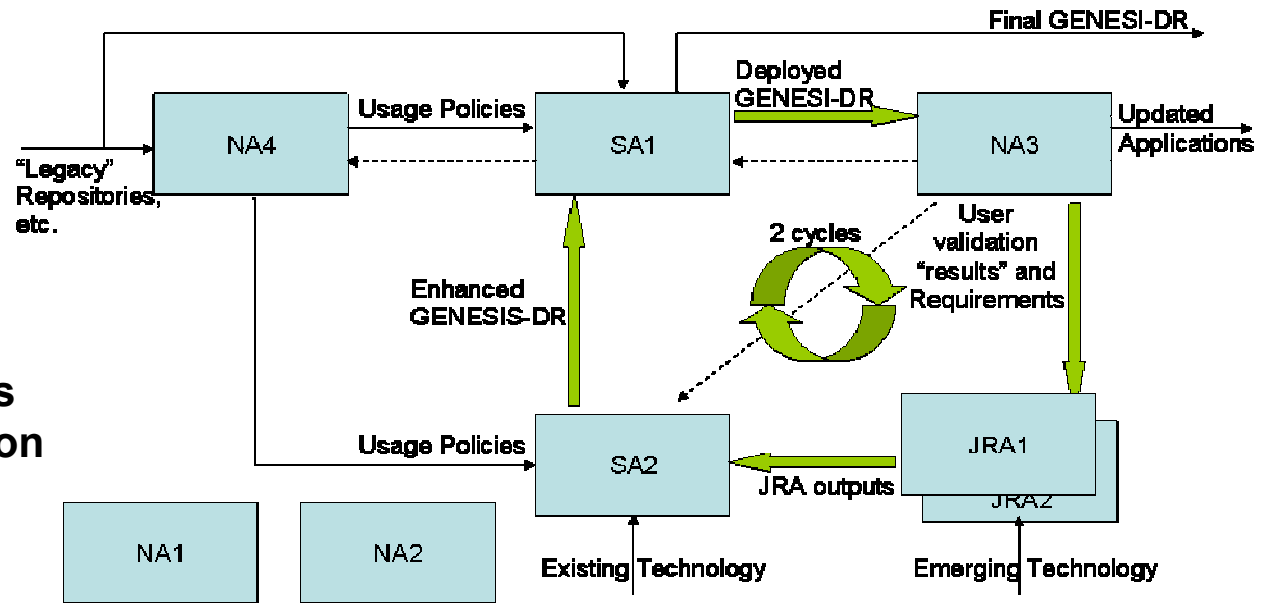
- NA1: Management
- NA2: Outreach, Standards
- NA3: Applications
- NA4: Data Policies

- **Support Activities**

- SA1: Services & Operations
- SA2: Infrastructure Evolution


- **Joint Research Activities**

- JRA1: Fast Data Access
- JRA2: Data Curation



# Standards related work

## Infrastructure high-lights:

- Service Oriented Architecture, compliant with Open Archival Information System (ISO 14721) 
- Interface to GRID infrastructures
- Specialised metadata environment (ISO 19115)
- In line with INSPIRE (EU directives)
- Compatibility with GEOSS (Global Earth Observation System of Systems)

Global offer to new scientific applications

perform processing and shared applications exploiting repositories and GRID computing resources



Integration at European level to set up the necessary standardisation frame which shall then be proposed at the global scale



Working towards standardisation of data and resources access policies