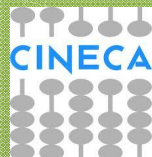


NextData Meeting  
12 November 2013  
CNR, P.le Aldo Moro, 13 Rome

NextData

SoSIna



Consiglio Nazionale delle Ricerche



# NextData System of Systems Infrastructure (ND-SoS-Ina)

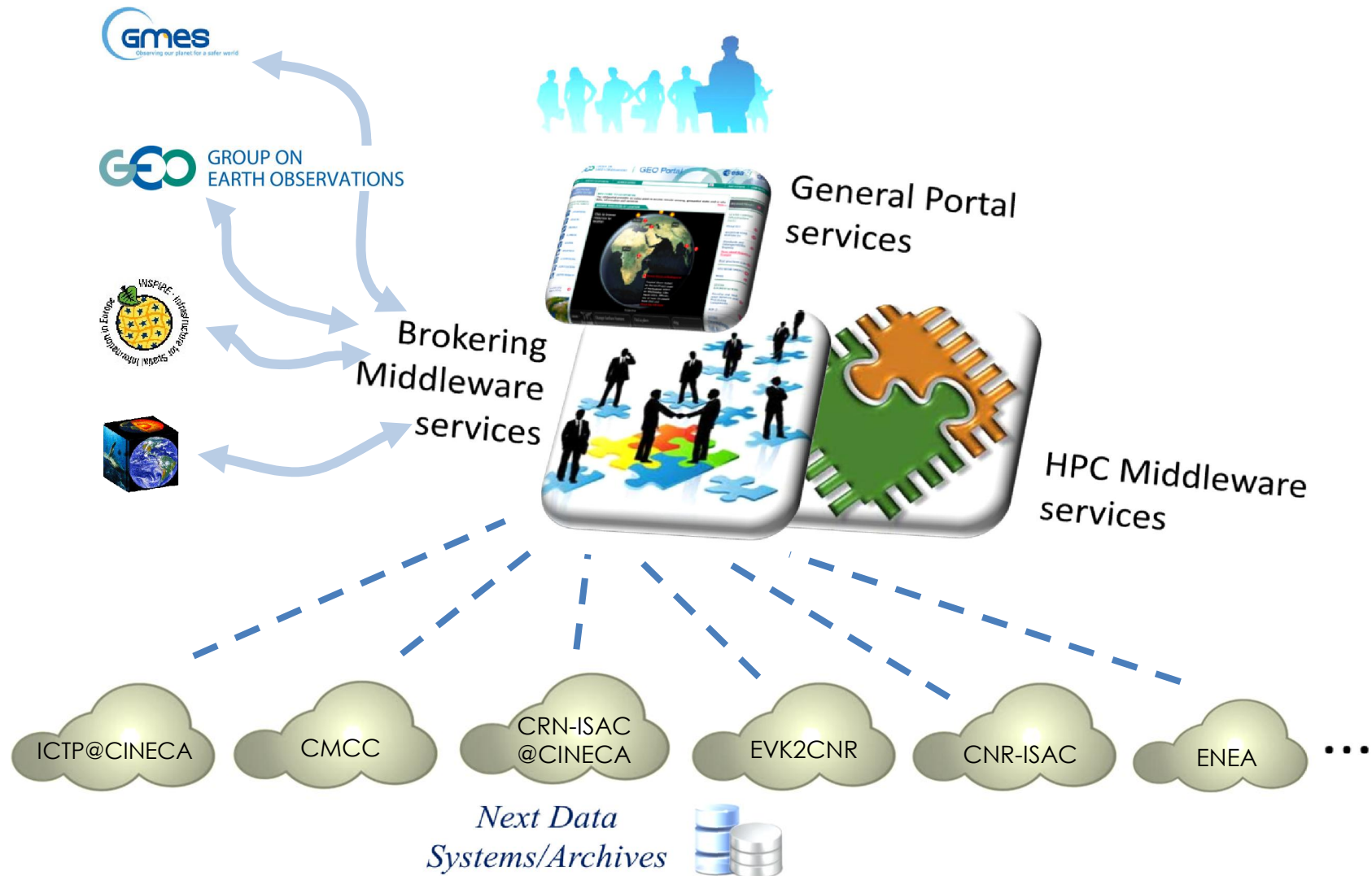
# The Project

- **Coordinator:**
  - **CNR Institute coordinating the sub-project:**  
*Istituto sull'Inquinamento Atmosferico (IIA) – Stefano Nativi*
  
- **Units**
  - **CNR-IIA –Paolo Mazzetti)**
  - **CINECA –Marco Rorro)**

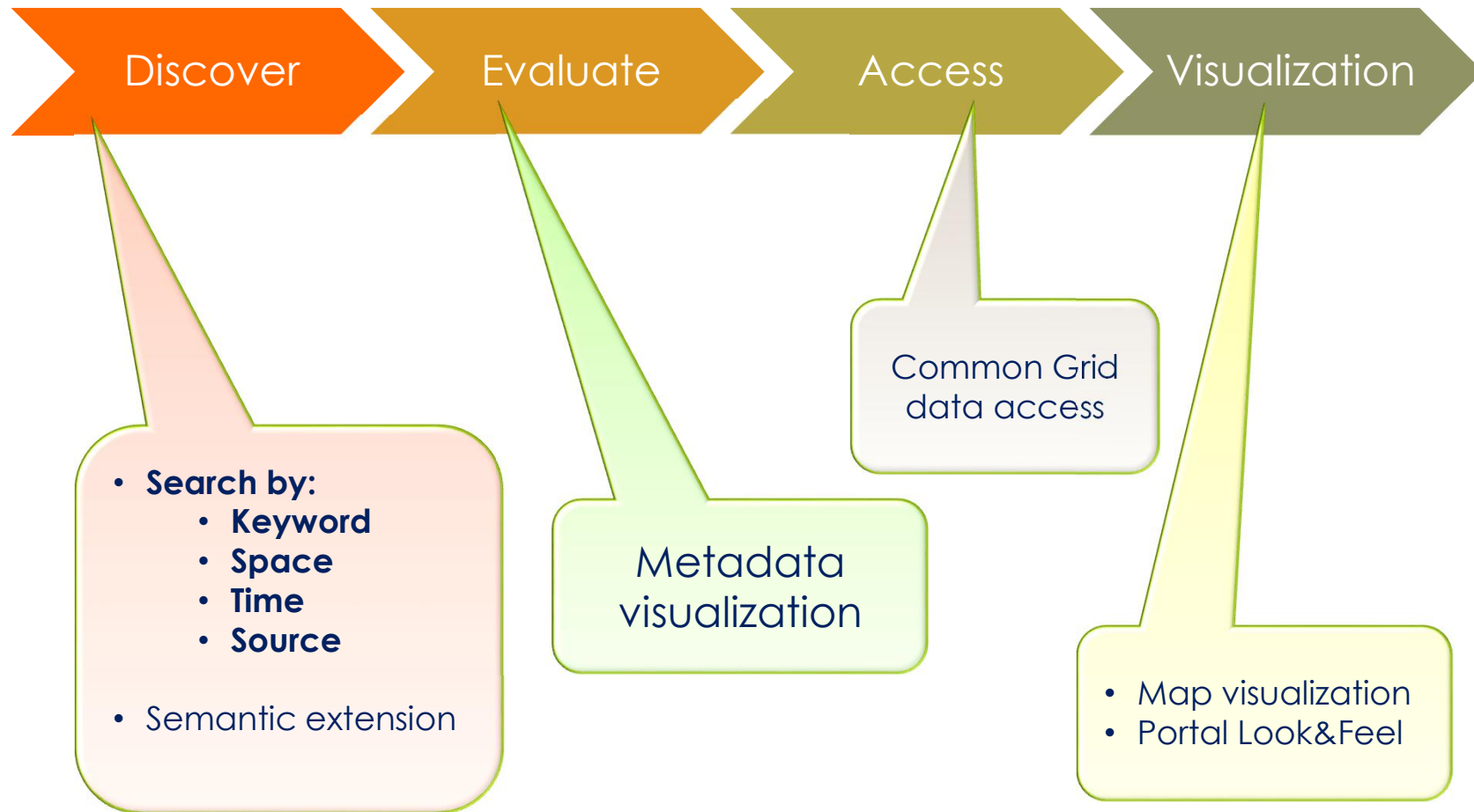


**Project duration: 2013-2015 (28 months)**  
**Start date: Jun 2013**  
**End date: Sep 2015**

# System of Systems



# Multi-disciplinary Functionalities



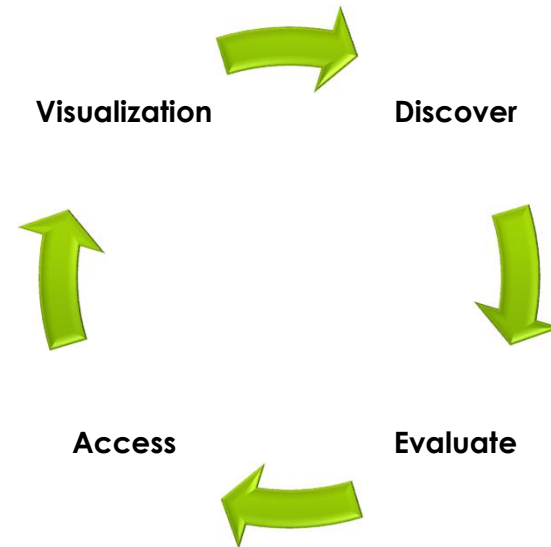
# Milestones

Number	Description	Date
M1	<b>First prototype</b> of the ND System of Systems infrastructure, implementing the <b>core functionalities</b>	12
M2	<b>Consolidated version</b> of the ND System of Systems infrastructure, implementing <b>advanced functionalities</b>	22
M3	<b>Final and operative ND System</b> of Systems infrastructure,	28

# The Web Portal

# Web Portal Core Functionalities

- Discover
  - Simple search
  - Advanced search (space constraints, time constraints, ...)
  - Semantic-enriched search
- Evaluate
  - Metadata visualization
- Access
  - Common grid data access
- Visualization
  - preview
  - ...
- ....



# Web Portal Architecture

User



Web Browser



HTTP Request

Servlet Container

Tomcat

Enterprise Portal

Liferay

Search portlet

Map portlet

...

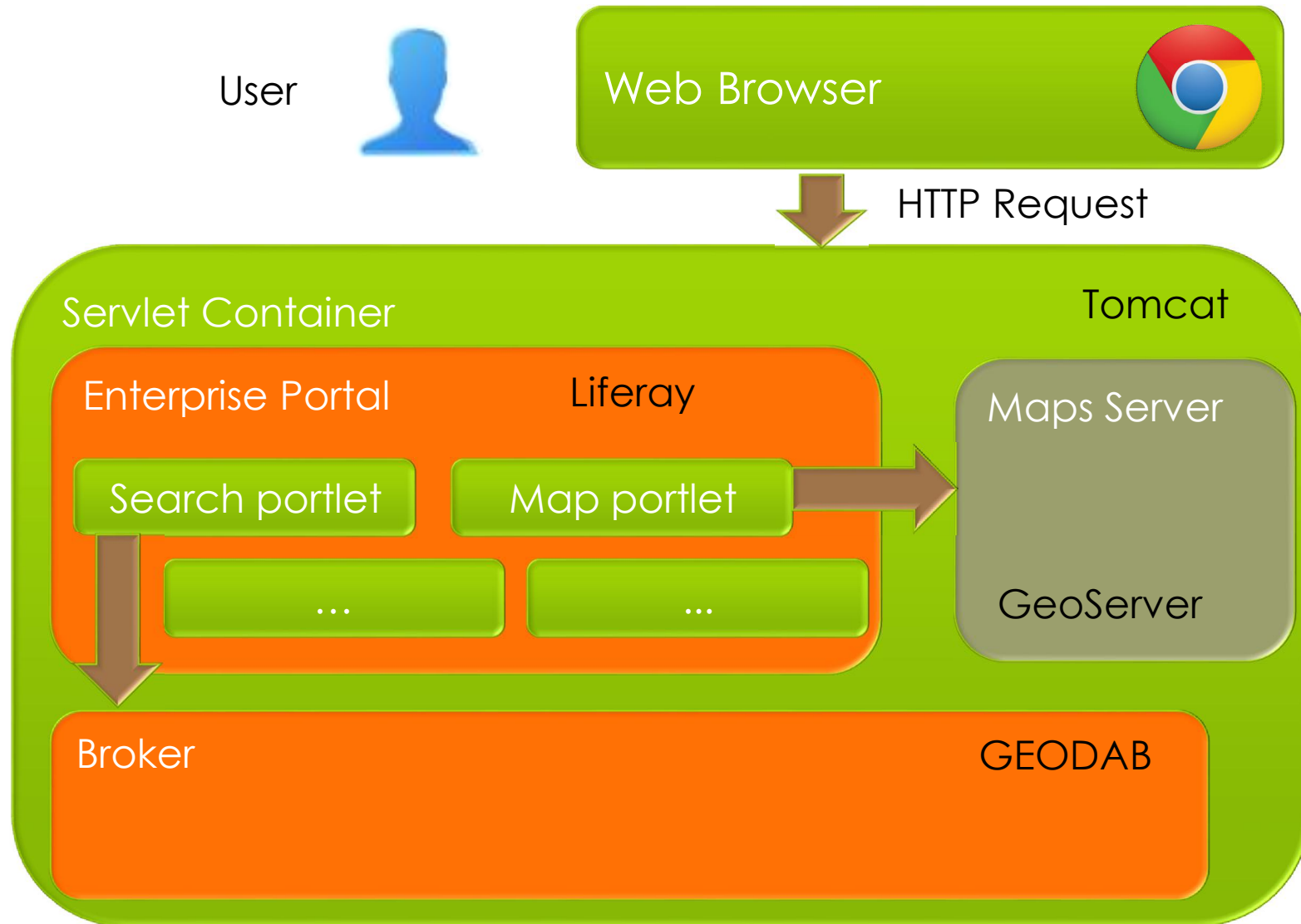
...

Maps Server

GeoServer

Broker

GEODAB





# Liferay Portal

- It's open source (LGPL)
- It contains many built-in applications
  - Social collaboration
  - Content management
  - Document management
  - Forums
  - Wiki
  - Blogs
  - ...
- It's configurable for High Availability

# Live demo



The screenshot displays the NextData Discovery web interface. At the top, there is a navigation bar with 'Discovery', 'Help', and 'Statistics' links. Below this is a breadcrumb trail 'NextData > Discovery'. The main content area is titled 'Discovery' and features a search bar with 'Clear' and 'Advanced' buttons. A 'Constraints' button is also visible. The interface is divided into several sections:

- Where:** Includes directional filters for South, West, North, and East, each with a text input field and a 'Clear' button.
- Data:** A section for selecting data sources, including a 'Sources' button and a table of enabled sources.
- When:** Includes 'From' and 'To' date filters, each with a text input field and a 'Clear' button.
- Who:** Includes a 'who' filter with a text input field and a 'Clear' button.

A map of Italy is displayed in the center, showing major cities like Naples, Palermo, Catania, and Tiran. The map is titled 'Map montenegro' and includes a 'Terms of Use' link. A 'Sources' table is located to the right of the map:

Sources	Enabled
ICTP@CINECA	<input checked="" type="checkbox"/>
CMCC	<input checked="" type="checkbox"/>
CRN-ISAC@CINECA	<input checked="" type="checkbox"/>
EVK2CNR	<input checked="" type="checkbox"/>
CNR-ISAC	<input checked="" type="checkbox"/>
ENEA	<input checked="" type="checkbox"/>

At the bottom of the interface, there is a link for 'Search terms from concept label'.

# Contatti

- Per informazioni sul Progetto Speciale
  - [nativi@iia.cnr.it](mailto:nativi@iia.cnr.it)
- Per informazioni e supporto tecnico
  - [sosina-tech@ Cineca.it](mailto:sosina-tech@ Cineca.it)