



EGIDA Project

National Use Cases Workshop

GIIDA

P. Mazzetti (CNR)

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What is GIIDA?

- GIIDA (Gestione Integrata e Interoperativa dei Dati Ambientali) is an initiative of the National Research Council of Italy (CNR):
 - launched in 2008 as an inter-departmental project coordinated by the Department of Earth and Environment (DTA)
 - aiming to:

design and develop a **multidisciplinary e-infrastructure** for the discovery, access, processing and publishing of **CNR Earth and Environmental resources** –i.e. data, services, models and sensors, best practices.



GIIDA Mission

- To strengthen CNR national/international influence on:
 - Geospatial Information and Spatial Data Infrastructure
 - Multi-disciplinary Interoperability
 - Environmental policy making
- To strengthen Italian influence in EU and beyond
 - GEOSS
 - INSPIRE Directive
 - FP7 (Infrastructure, ICT, Science, etc.)
 - GMES
 - SEIS



GIIDA Participation

- The initial Call-for-Proposals received 23 proposals from different consortia including:
 - 17 CNR Institutes
 - affiliated to 5 different departments,
 - the EV-K2 Institute;
 - 18 external bodies:
 - 3 Italian Regional Administrations
 - Lombardy, Puglia and Basilicata
 - 5 Universities
 - Pavia, Turin, Milan - Bicocca, Messina, Pol. of Milan – Como
 - 1 National Agency
 - Corpo Forestale dello Stato
 - 4 Other Research Centers
 - ENEA, INAF, INOGS, ICIMOD
 - 5 SMEs



GIIDA Structure

Thematic Areas

- Biodiversity and Ecosystems
- Atmosphere and Climate Change
- Air quality
- Soil/water quality
- Risks
- Sea and Marine Resources

Transversal Areas

- Research/PA joint infrastructures
- Semantics
- Sensors
- Data Quality



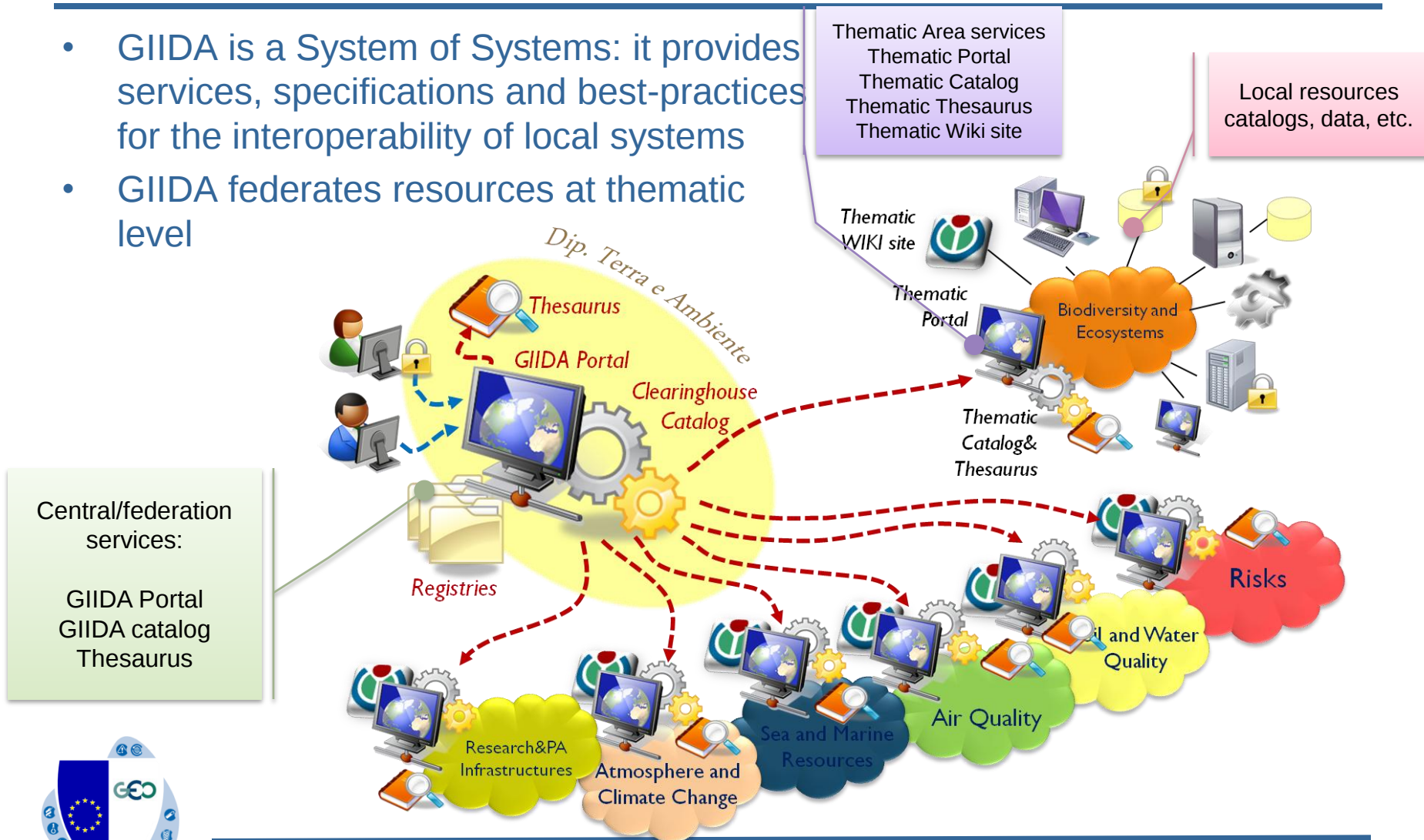
GIIDA Architecture

- Principles:
 - Adoption of the “System of Systems” approach
 - Local (autonomous, heterogeneous) systems
 - GIIDA federation services
 - Interoperability
 - Standardization as a means of achieving interoperability:
 - International initiatives (e.g. GEO/GEOSS, GMES, INSPIRE),
 - international and community standards for geospatial information (e.g. ISO, OGC, CEN, etc.)



The GIIDA System of Systems

- GIIDA is a System of Systems: it provides services, specifications and best-practices for the interoperability of local systems
- GIIDA federates resources at thematic level



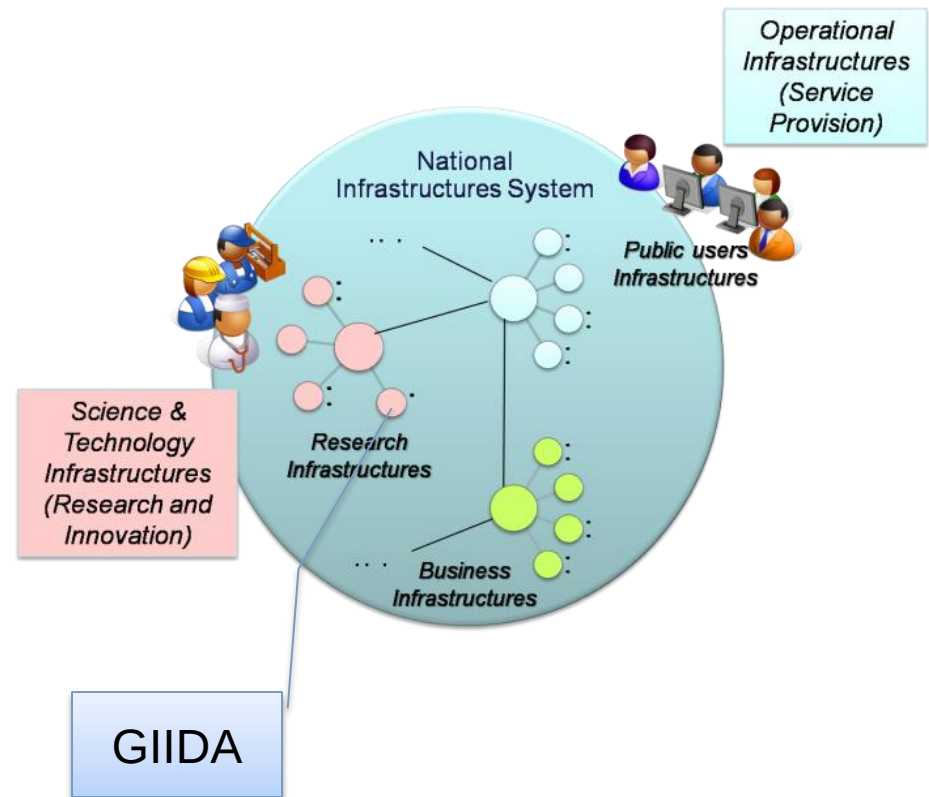
GIIDA Initial Operating Capacity (IOC)

- The GIIDA IOC is set up. It includes:
 - Central Portal
 - <http://giida.cnr.it/GIIDAinfr/>
 - Clearinghouse Catalog
 - <http://giida.cnr.it/gi-cat/>
 - Thematic Portals
 - Thematic Catalogs



GIIDA in the national context

- In a more general context, GIIDA will prepare one of the national Science and Technology Infrastructures.
- It should integrate with:
 - Other S&T infrastructures (e.g. SINAnet)
 - Other infrastructures (government, e-business, etc.)



GIIDA in the national context

- The long-term sustainability of a national digital infrastructure for the environment requires synergies among all the involved stakeholders' domains: Users, Governance, Capacity provision and Research&Development
- GIIDA established liaison with:
 - ISPRA SINAnet
 - COI
(Commissione Oceanografica Italiana)



More information

GIIDA Project Web site:

<http://www.dta.cnr.it/content/view/2735/244/lang,en/>

GIIDA Coordinator: stefano.nativi@cnr.it



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