UNIONE EUROPEA

Progetto cofinanziato dall'Unione Europea
FESR - Fondo Europeo di Sviluppo Regionale

La Sardegna cresce con l'Europa

REPUBBLICA ITALIANA

Assessorato della Programmazione, Bilancio, Credito e Assetto del Territorio

REGIONE AUTONOMA DELLA SARDEGNA

ricerca

PROGRAMMA REGIONALE DI SVILUPPO 2010-2014

INTERNATIONAL RESEARCH OPPORTUNITY

CONFERENZA REGIONALE
PER LA RICERCA E L'INNOVAZIONE

Assessorato della Programmazione, Bilancio, Credito e Assetto del Territorio

REGIONE AUTONOMA DELLA SARDEGNA

UNIONE EUROPEA

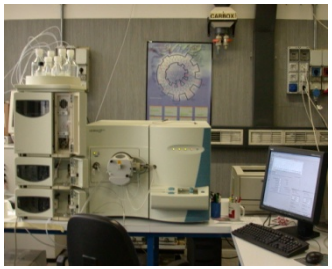
Progetto cofinanziato dall'Unione Europea
FESR - Fondo Europeo di Sviluppo Regionale

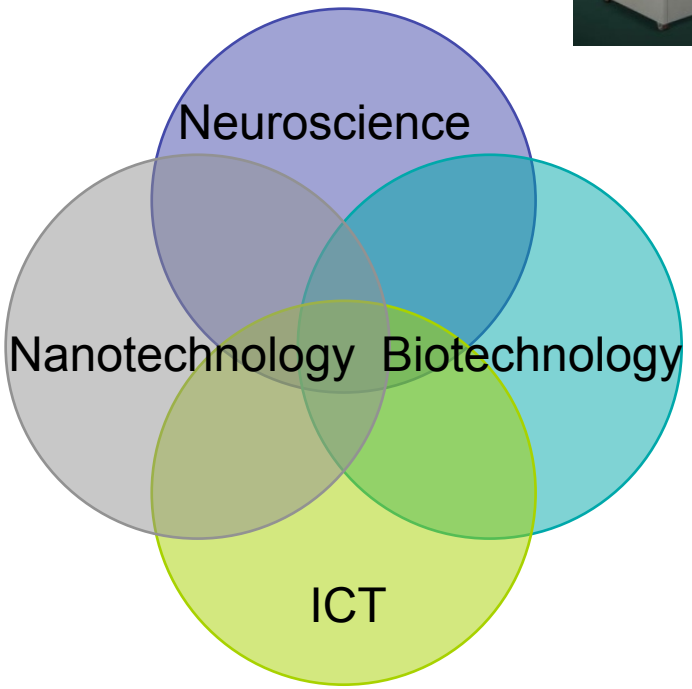
La Sardegna cresce con l'Europa

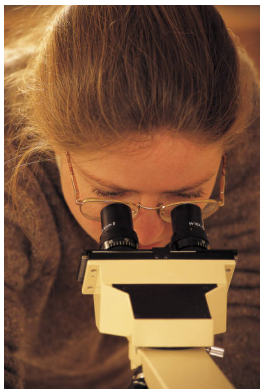
REPUBBLICA ITALIANA

ricerca

CONFERENZA REGIONALE PER LA RICERCA E L'INNOVAZIONE







Assessorato
della Programmazione,
Bilancio, Credito
e Assetto del Territorio

REGIONE
AUTONOMA
DELLA SARDEGNA

System Biology for Health

UNIONE EUROPEA

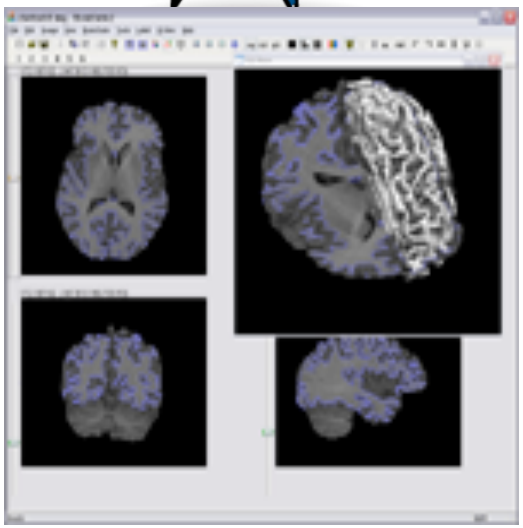
FESR - Fondo Europeo
di Sviluppo Regionale

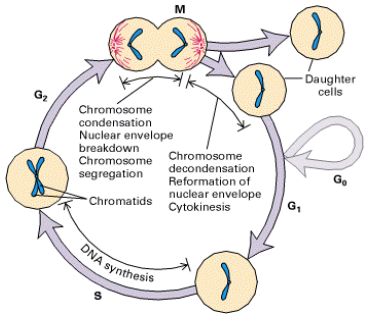
la Sardegna cresce con l'Europa

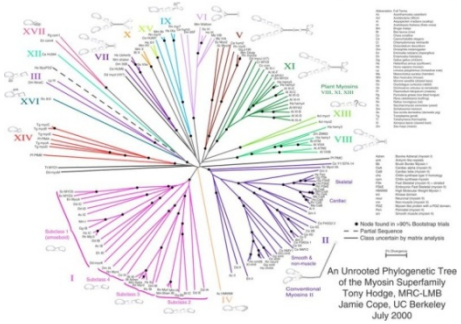
REPUBBLICA ITALIANA

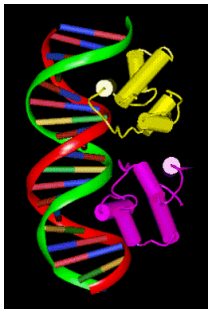
ricerca

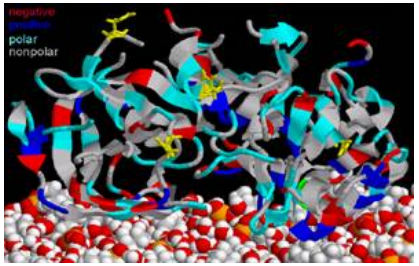
CONFERENZA REGIONALE
PER LA RICERCA E L'INNOVAZIONE











ricerca

CONFERENZA REGIONALE
PER LA RICERCA E L'INNOVAZIONE

EUROPEAN PROJECT: 7FP

COOPERATION 32.4 G€

- Health
- Food, agriculture and biotechnology
- Information and communication technologies
- Nanosciences, nanotechnologies, materials and new production technologies
- Energy
- Environment (including climate change)
- Transport (including aeronautics)
- Socio-economic sciences and the humanities
- Security and Space

IDEAS 7.5 G€
- European Research Council

PEOPLE 4.75 G€
- Initial training
- Life-long training
- Industry-academia
- International dimension
- Specific actions

CAPACITIES 4.1 G€
- Research infrastructures
- Research for the benefit of SMEs
- Regions of Knowledge
- Research potential
- Science in society
- Coherent development of research policies
- International co-operation

- Non-nuclear actions by the Joint Research Centre
- Euratom for actions by the Joint Research Centre

ESFRI

European Strategy Forum on Resarch and Infrastructures

Existing Infrastructures	New Infrastructures
Integrating activities 580 M€	Design studies 70 M€
e-infrastructures 420 M€	Construction (preparatory phase; construction phase) 645 M€
Policy Development and Programme Implementation	

ESFRI RoadMap

ESFRI

European Strategy Forum on Resarch and Infrastructures

ESFRI

- Health (6)
- Food, Agriculture and Biotechnology (4)
- Information and Communication Technologies (3)
- Nanosciences, Nanotechnologies and Materials (2)
- Energy (5)
- Environment (4)
- Transport (2)
- Socio-economic Sciences and Humanities (3)

→ 29 priority topics for RI's in 8 fields of R&D

→ No competition under the same topic but integration on a European scale

ESFRI

European Strategy Forum on Resarch and Infrastructures

THE REGIONAL PERSPECTIVE

- The creation of the ESFRI Roadmap has opened strong opportunities to involve all Member States and Associated Countries, exploit **the potential for scientific excellence and technological growth also in the newer Member States, and in particular encourage the involvement of different European regions**.

- ESFRI is committed to supporting **the regional stakeholders** in order to realise their ambitions.

- **Regional Partner Facilities** would be either associated with large scale research infrastructures or with other complementary infrastructures (e.g. in a **pan-European distributed research infrastructure**)

ESFRI

European Strategy Forum on Resarch and Infrastructures

- **Three groups of facilities** can be distinguished in the ESFRI Roadmap:

- i) those which fundamentally are e-infrastructures (**e.g. the bio-informatics Elixir project or the biodiversity observatory Lifewatch system**) where therefore this aspect has to be solved first for them to exist;

- ii) distributed facilities (**BBMRI for biobanks or EPOS for seismic activities**);

- iii) those facilities for whom e-infrastructures will be important at least for data acquisition, processing and distribution to users, and have therefore already engaged in developing these aspects, also, in some cases, in partnership with industry (such as the **PRACE initiative for high performance computing**).

ELIXIR

Addressing European Grand Challenges

Healthcare for an ageing population

By linking biomedical and biological data resources, ELIXIR will facilitate understanding of diseases of old age and will drive earlier diagnosis, improved disease management and preventive strategies.

A sustainable food supply

ELIXIR will provide ready access to information on plant genomes, insect pests and plant pathogens, enabling crop researchers to develop healthier, more productive crops in the face of a rapidly growing population.

Competitive pharma and biotech industries

ELIXIR will support our pharma and biotech industries by facilitating pre-competitive collaboration and attracting more companies to Europe.

Protection of the environment

ELIXIR will help environmental scientists to monitor life in the oceans, understand the effects of climate change on species diversity and develop

BBMRI
Biobanking and Biomolecular Resources Research Infrastructure

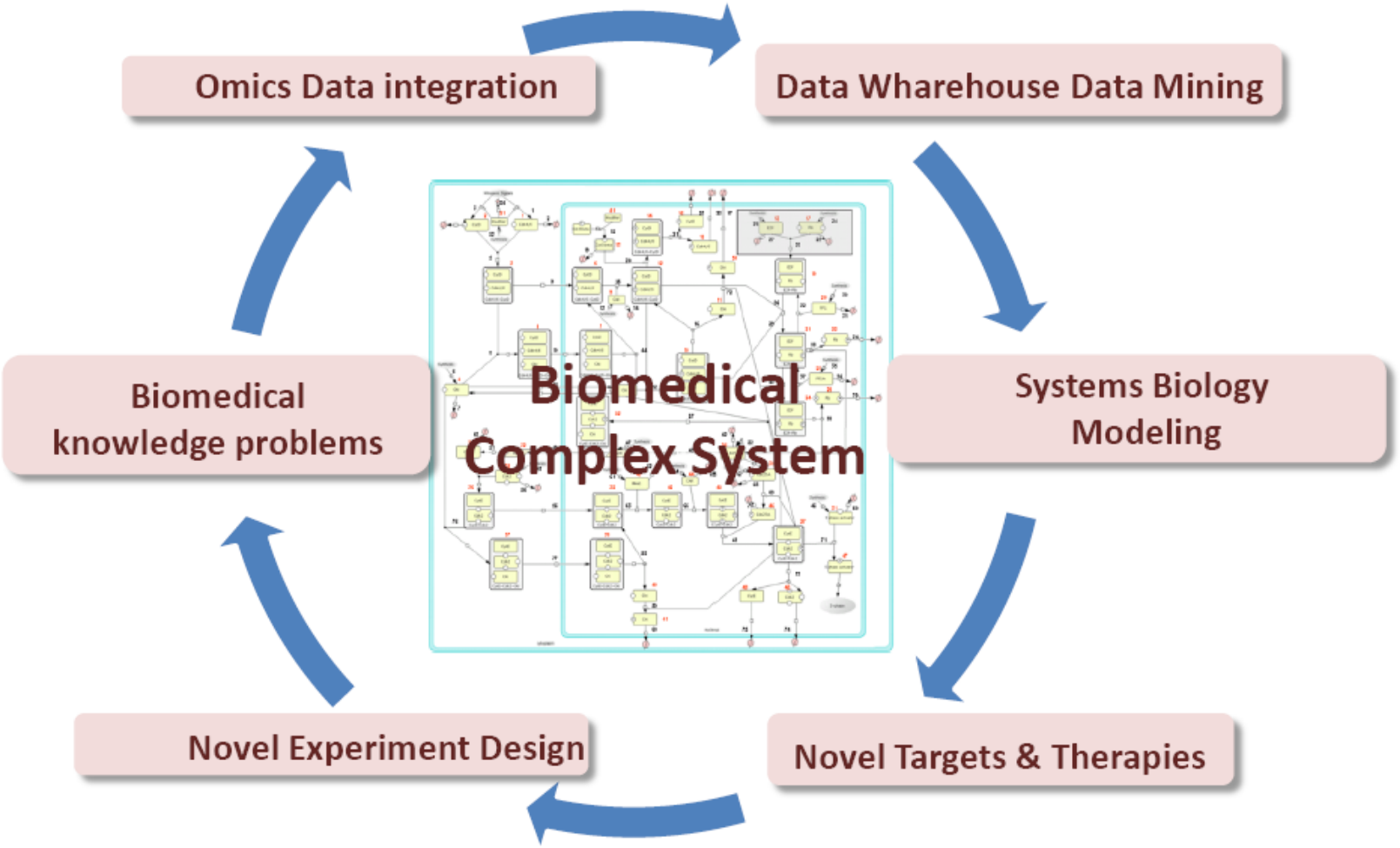
Managing resources for the future of biomedical research

- Home
- News & Events
- National Hubs
- About BBMRI
  - The Mission
  - The Facility
  - Background
  - About Biobanks
- Workpackages
- Partners & Membership
- Publications & Reports

The Mission

To prepare for the construction of a pan-European Biobanking and Biomolecular Resources Research Infrastructure (BBMRI) for biomedical and biological research in Europe and worldwide, building on existing infrastructures, resources and technologies, specifically complemented with innovative components and properly embedded into European ethical, legal and societal frameworks.

- To benefit European health-care, medical research, and, ultimately, the health of the citizens of the European Union.
- To have a sustainable legal and financial conceptual framework for a pan-European Biobank infrastructure.
- To increase scientific excellence and efficacy of European research in the life sciences, especially in biomedical research.
- To expand and secure competitiveness of European research and industry in a global context, especially in the field of medicine and biology.


Omics Data integration
Data Wharehouse Data Mining
Systems Biology Modeling
Novel Targets & Therapies
Novel Experiment Design
Biomedical knowledge problems
Biomedical Complex System

Assessorato della Programmazione, Bilancio, Credito e Assetto del Territorio

REGIONE AUTONOMA DELLA SARDEGNA

UNIONE EUROPEA

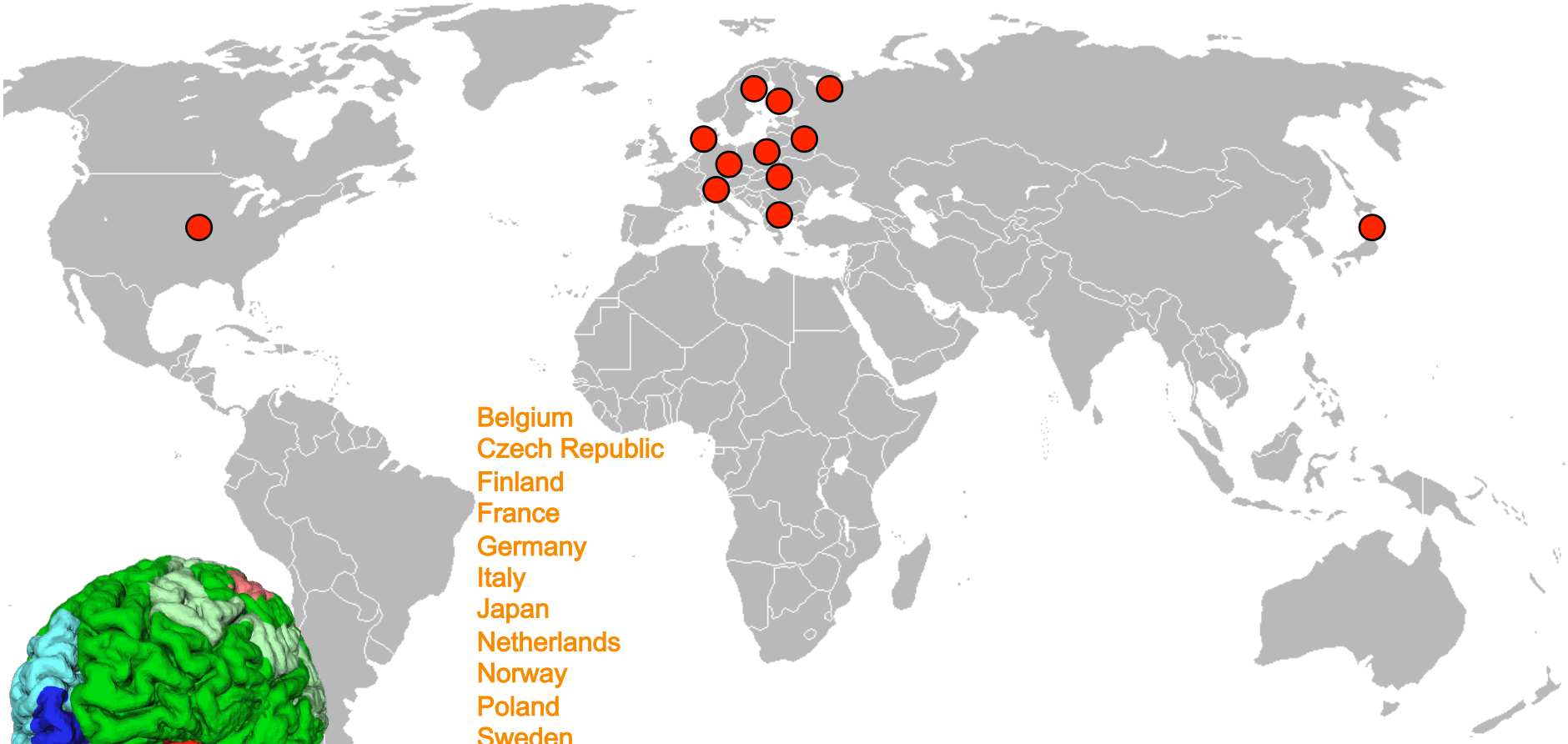
Progetto cofinanziato dall'Unione Europea
FESR - Fondo Europeo di Sviluppo Regionale

La Sardegna cresce con l'Europa

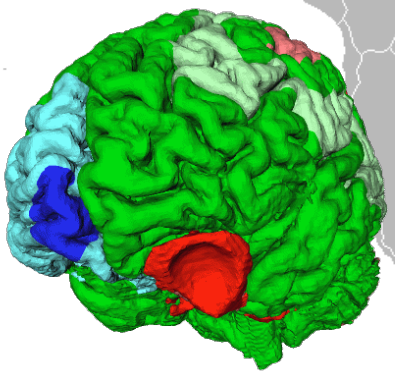
REPUBBLICA ITALIANA

ricerca

CONFERENZA REGIONALE PER LA RICERCA E L'INNOVAZIONE



Belgium
Czech Republic
Finland
France
Germany
Italy
Japan
Netherlands
Norway
Poland
Sweden
Switzerland
United Kingdom
United States



incf International Neuroinformatics Coordinating Facility

Assessorato
della Programmazione,
Bilancio, Credito
e Assetto del Territorio

REGIONE
AUTONOMA
DELLA SARDEGNA

UNIONE EUROPEA

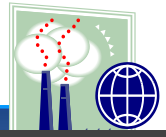
Progetto cofinanziato
dall'Unione Europea
FESR - Fondo Europeo
di Sviluppo Regionale

La Sardegna
cresce
con l'Europa

REPUBBLICA ITALIANA

ricerca

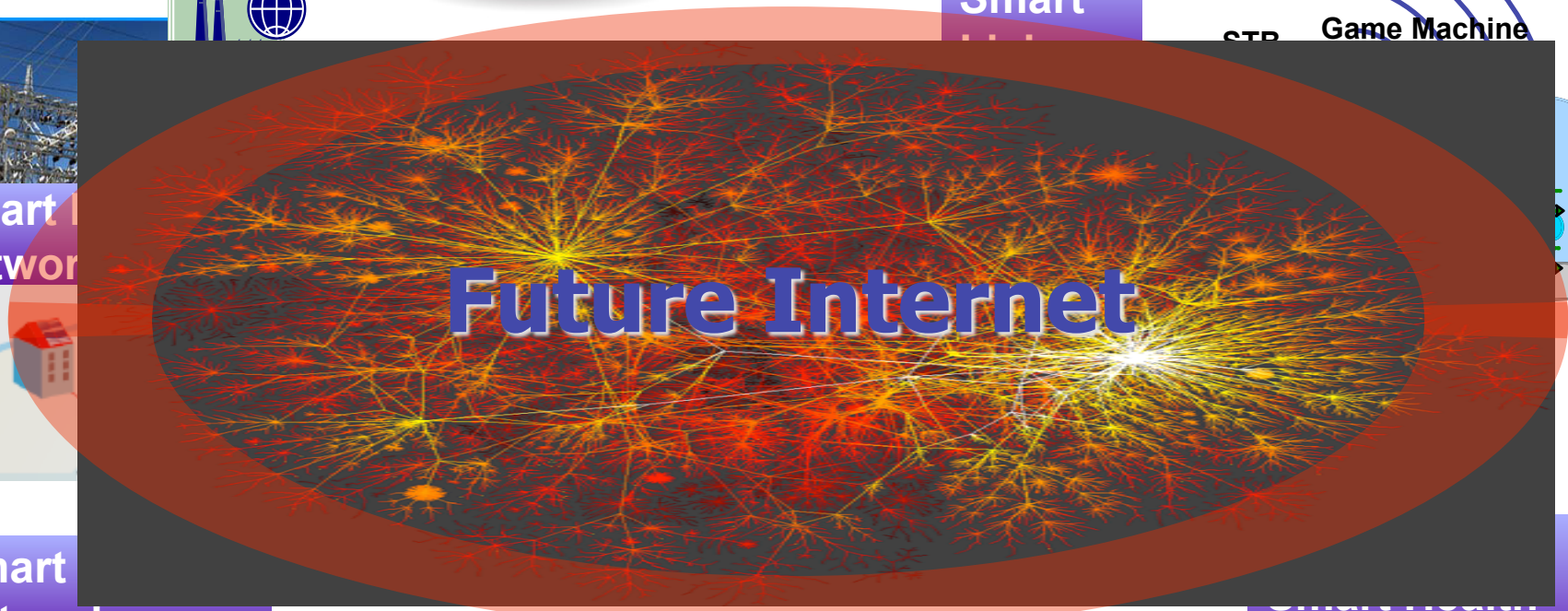
CONFERENZA REGIONALE PER LA RICERCA E L'INNOVAZIONE



Smart

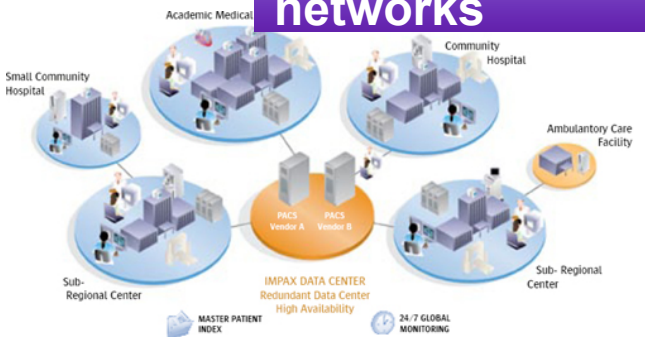
Game Machine

Smart
Networ

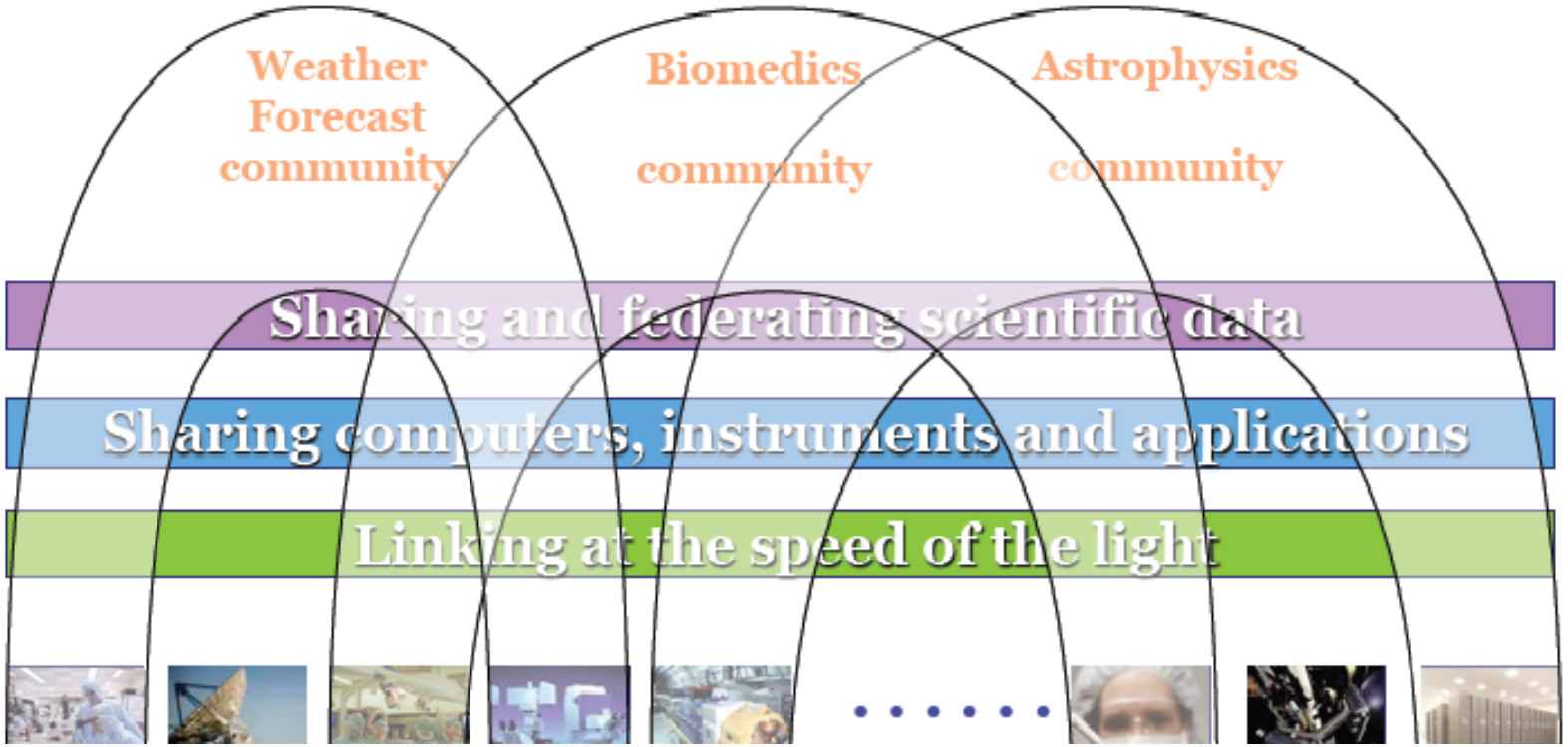


Smart
Networks

networks



Connecting the finest minds
Sharing and federating the best scientific resources
Building global virtual communities



Discussion & Questions