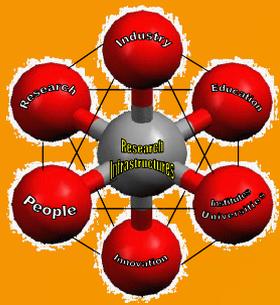




European Roadmap for Research Infrastructures

Robert Jan Smits
European Commission
21 March 2007
Greece

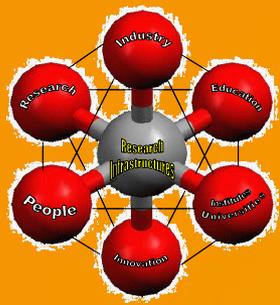


Research Infrastructures and capacity building

Research Infrastructures of pan-European relevance provide unique opportunities for:

- world-level research
- world-level training
- stimulating technology & knowledge transfer
- ensuring knowledge preservation

... in brief for **European Capacity Building**



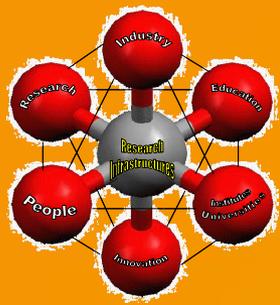
Excellence and Research Infrastructures

Europe has a long-standing tradition of excellence in research and its teams continue to lead progress in many fields

- However our centres of excellence often fail to reach critical mass
- There is a need to bring resources together and to build a research and innovation area equivalent to the "common market"

What is ESFRI?

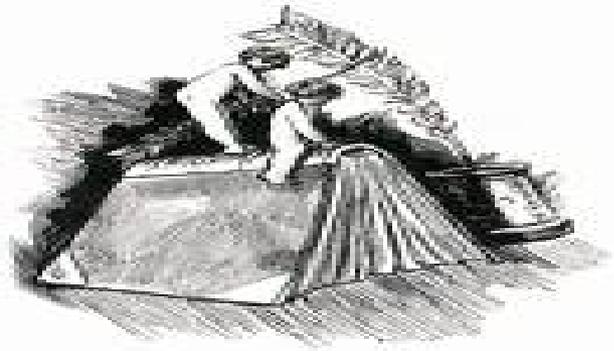
- A European Strategy Forum on Research Infrastructures
- Launched in April 02
- Brings together representatives of the 25 Member States, 7 Associated States, and one representative of the European Commission (EC)



Role of ESFRI

- To foster an “open method of coordination” between different countries
- To discuss the long term vision at European level and to support the development of a European RI policy
- To bring initiatives and projects to a point where decisions by ministers are possible

A stimulation and incubator role



The Roadmap

- Mandate from the Council of Ministers, November 2004
- The Roadmap is the result of two years of intensive work
- About 1000 high-level experts were involved, from every MS and AS, from most fields and user communities, giving the end product credibility and quality.

It is the beginning of an ongoing process



The Roadmap (2)

- Addressing seven (7) fields of Research and major challenges
- From about original 200 proposals, thirty five (35) projects have been identified through several review stages
- Community produced ideas that will open up new and unexpected areas of knowledge

Some fields should be stimulated for further integration

Social Science and Humanities



CESSDA

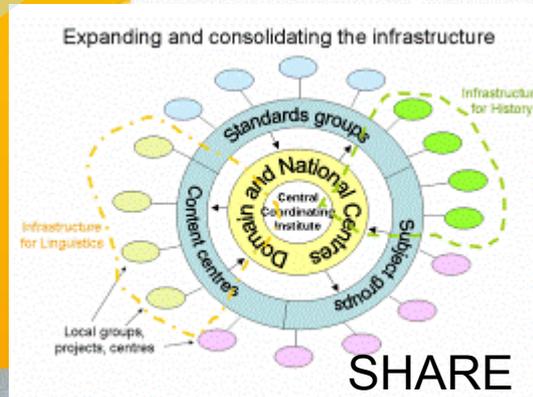
Towards an integrated and interoperable research infrastructure of language resources and its technology enabling eHumanities

Easy access to Language Resources and Technology for the Humanities community

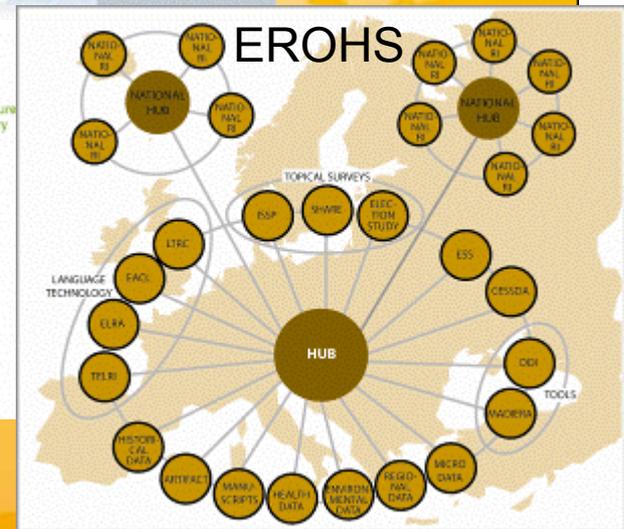
CLARIN

6 Projects

European Social Survey
ESS



SHARE

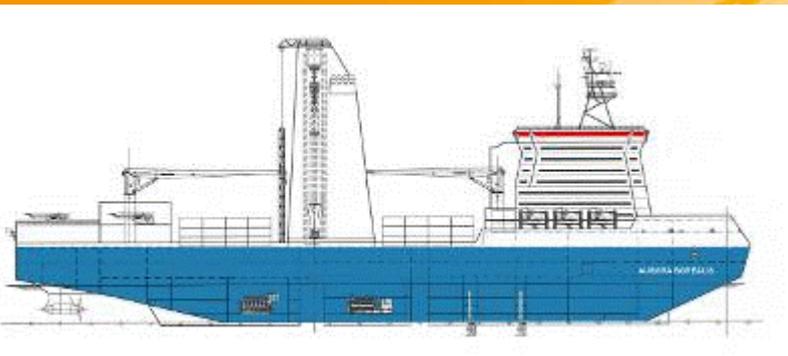


DARIAH

darjah.eu

Environmental Sciences

7 Projects



AURORA BOREALIS



IAGOS-ERI



EUFAR



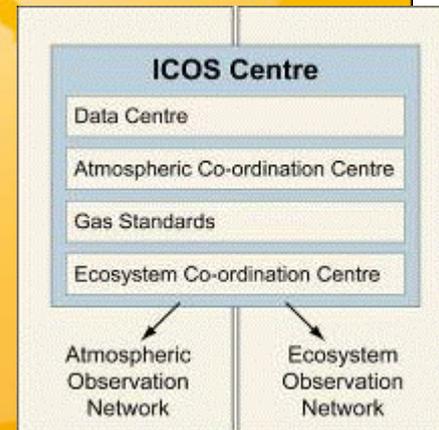
EURO-ARGO



EMSO



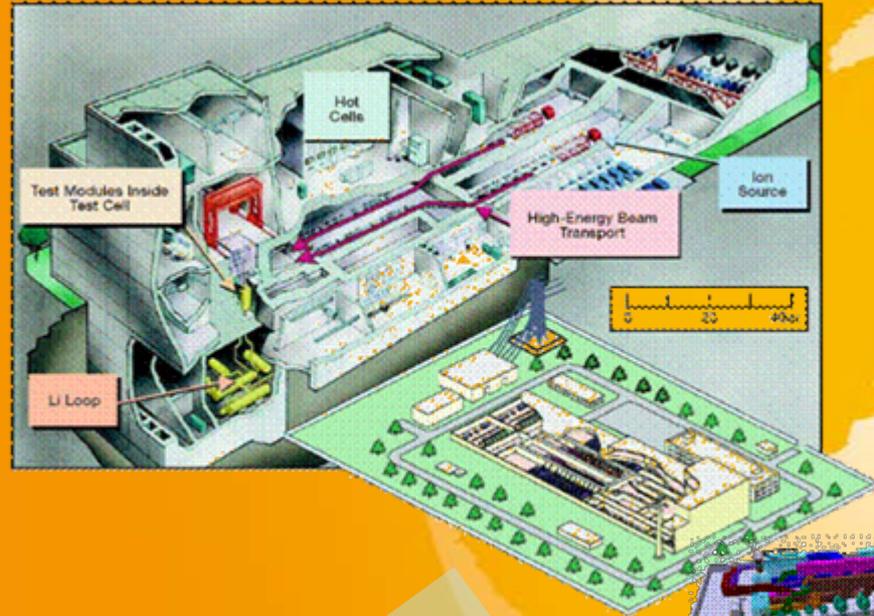
LIFEWATCH



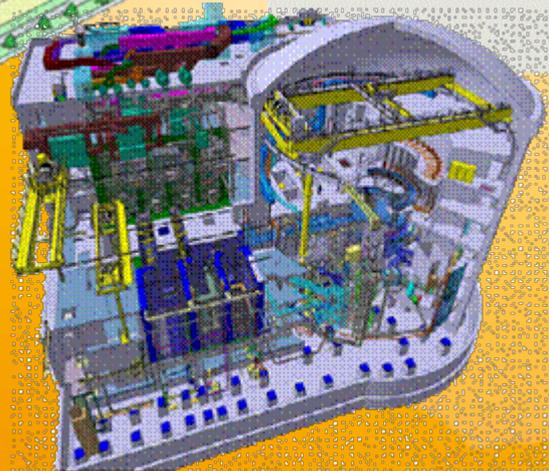
ICOS

Energy

IFMIF



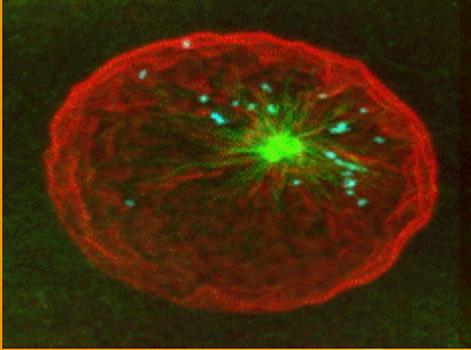
HiPER



JHR

3 Projects

Biomedical and Life Sciences



STRUCTURAL BIOLOGY

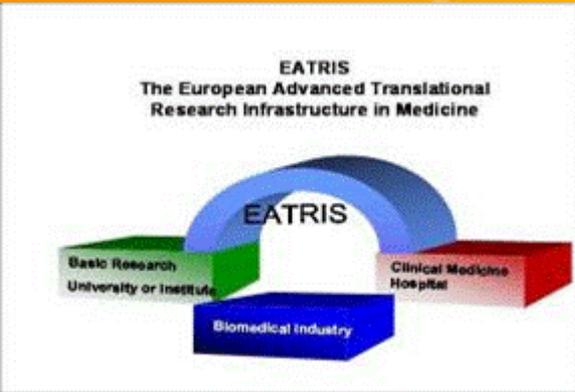


CLINICAL TRIALS

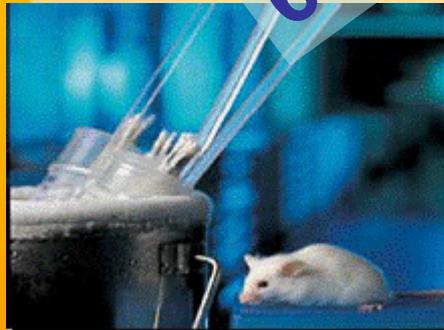


BIOBANKS

6 Projects



EATRIS

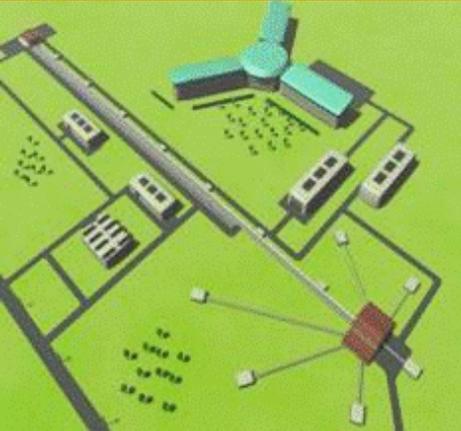


INFRAFRONTIER



Upgrade of EBI

Material Sciences



ESS



XFEL



IRUVX

ESRF



ILL



ELI

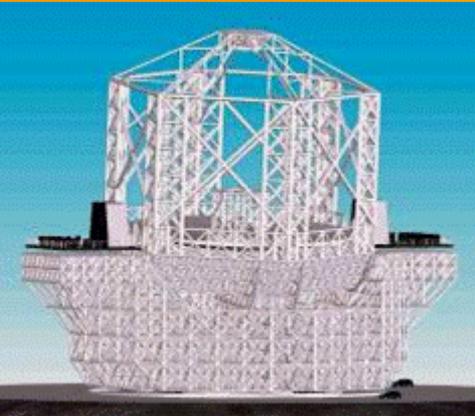


PRINS

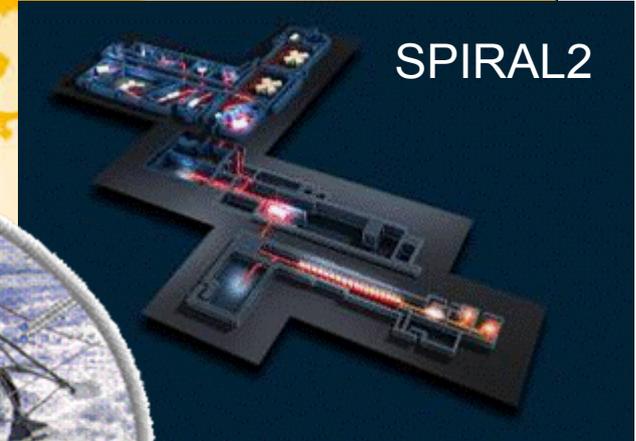


Astronomy, Astrophysics and Nuclear Physics

5 Projects



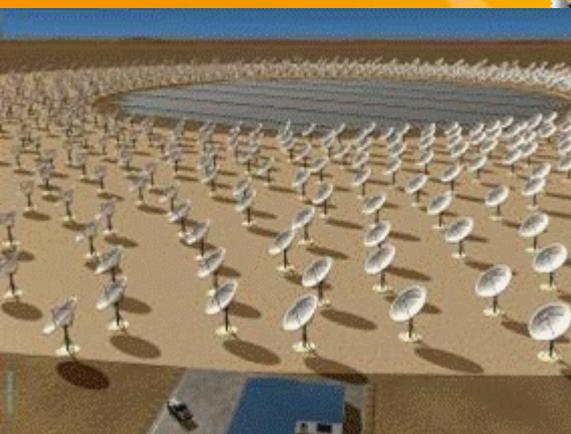
European ELT



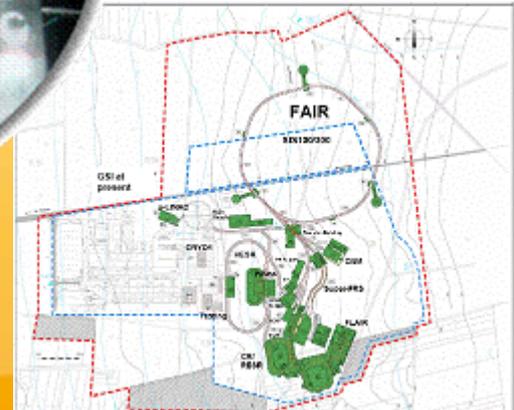
SPIRAL2



KM3NeT



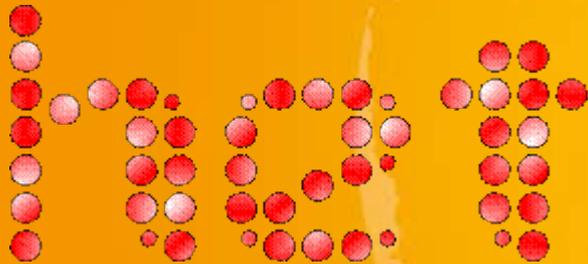
SKA



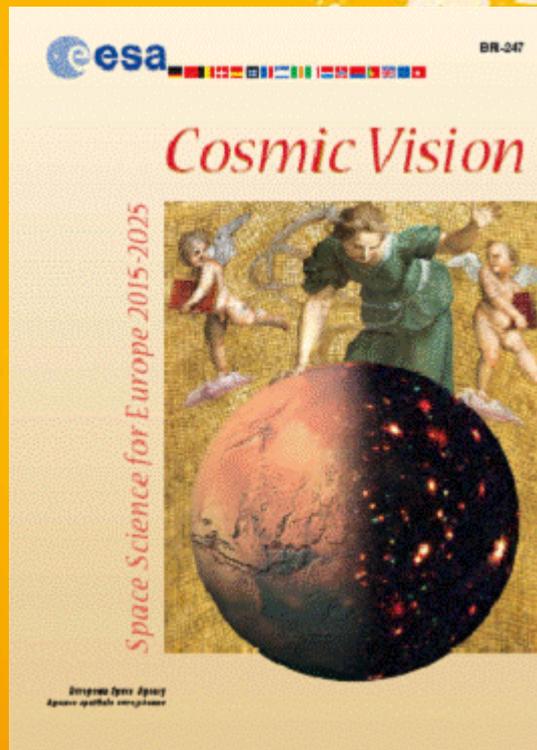
FAIR

Computer Data Treatment, Particle and Space Physics

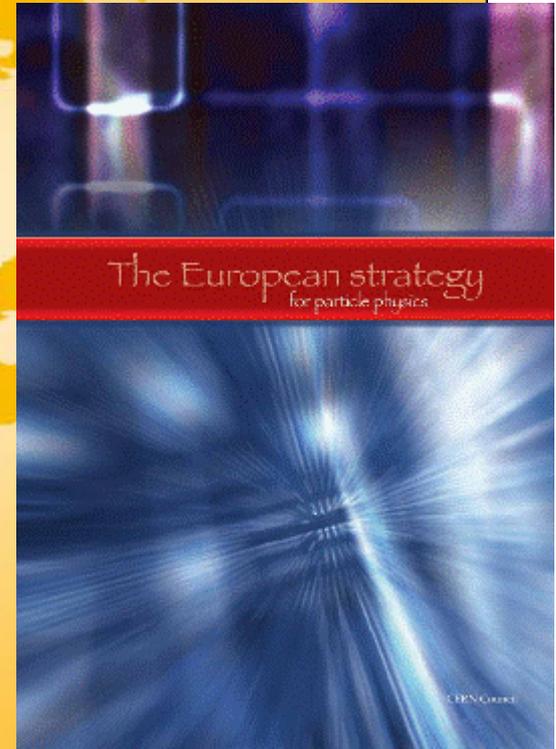
Inputs from e-IRG, ESA, CERN



EUHPC (e-IRG)



The ESA Cosmic Vision



The CERN Council
strategy for
particle physics



Global Dimension

- Several of the projects on the Roadmap require a global approach
- ESFRI will enter into a dialogue with the OECD Global Science Forum for the identification, planning, discussion and monitoring of such projects
- Major players are Australia, China, India, Japan, Russia, South Africa, USA



Who is the Roadmap for ?

- Policy Makers
- Researchers
- Funders
- Industry

ESFRI welcomes the active role which the European Commission intends to play under the 7th Framework Programme.



More is to come

- Implementation of the Roadmap:
some of the projects will be in place already next year
- Strengthening the European Research Area:
Research Infrastructures as major cornerstones
- Continuation of the ESFRI work:
ESFRI encourages constructive debate

Merci

Grazie

Danke

Bedankt

Gracias

Hvala

Kiitos

Tack

Obrigado

Köszönöm

Teşekkür ederim

***Many thanks
for your attention***

ΕΥΧΑΡΙΣΤΩ