# **Research Networking** - the Next Steps

Probably copyright protected image of footprints in the sand leading over a dune towards a nice blue horizon

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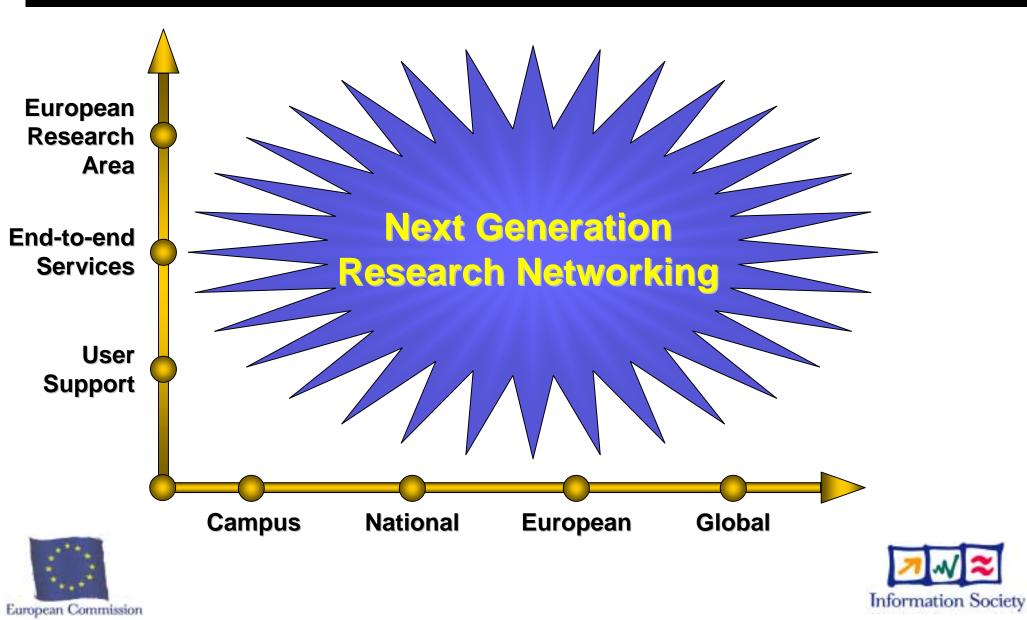
**European Commission, Information Society and Media Directorate-General** 

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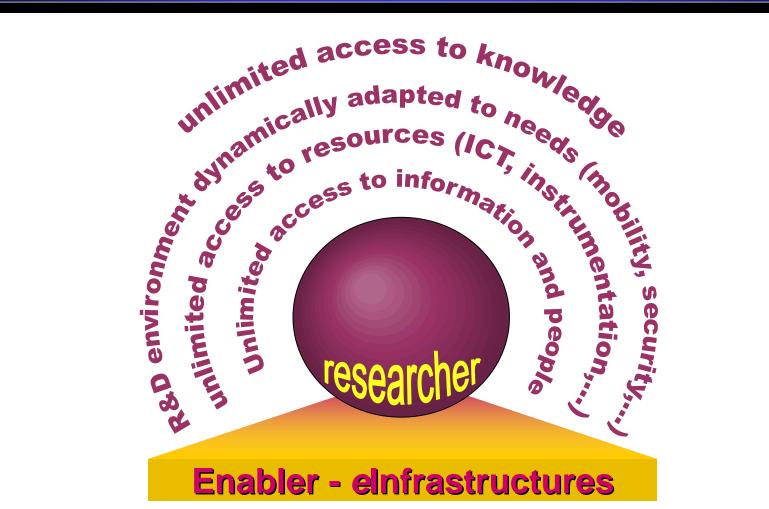




# **Research Networking Challenges**



## The Researcher is at the Center!

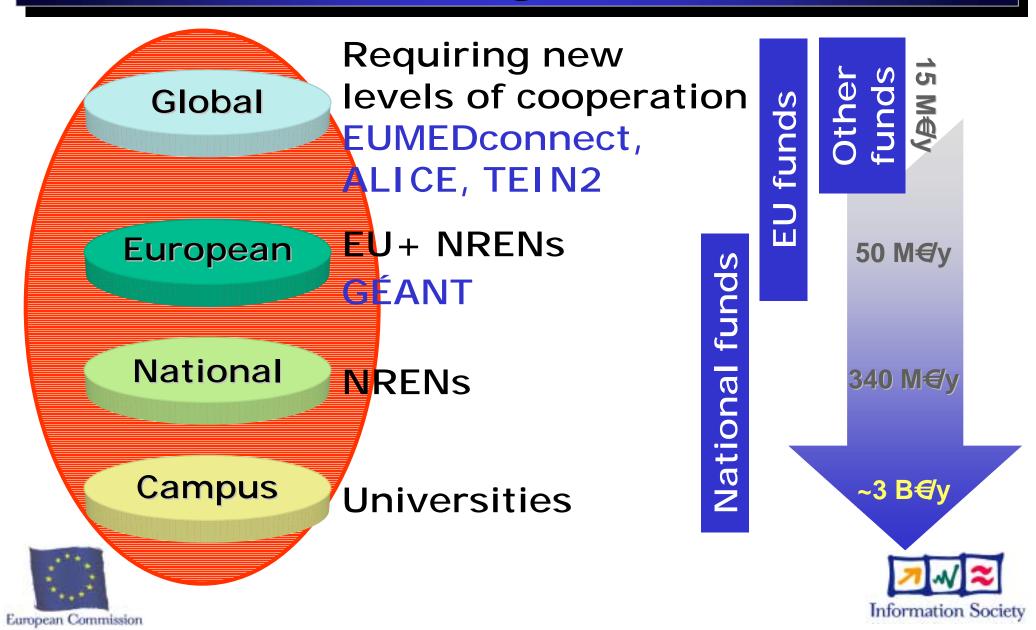


Researcher: the most precious capital and the centre of all developments!

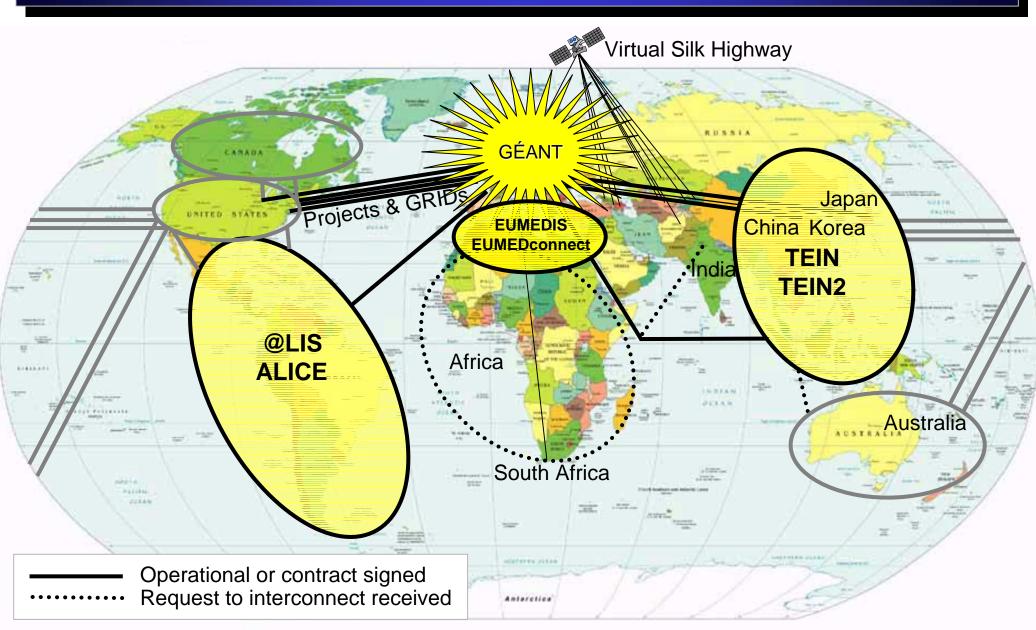




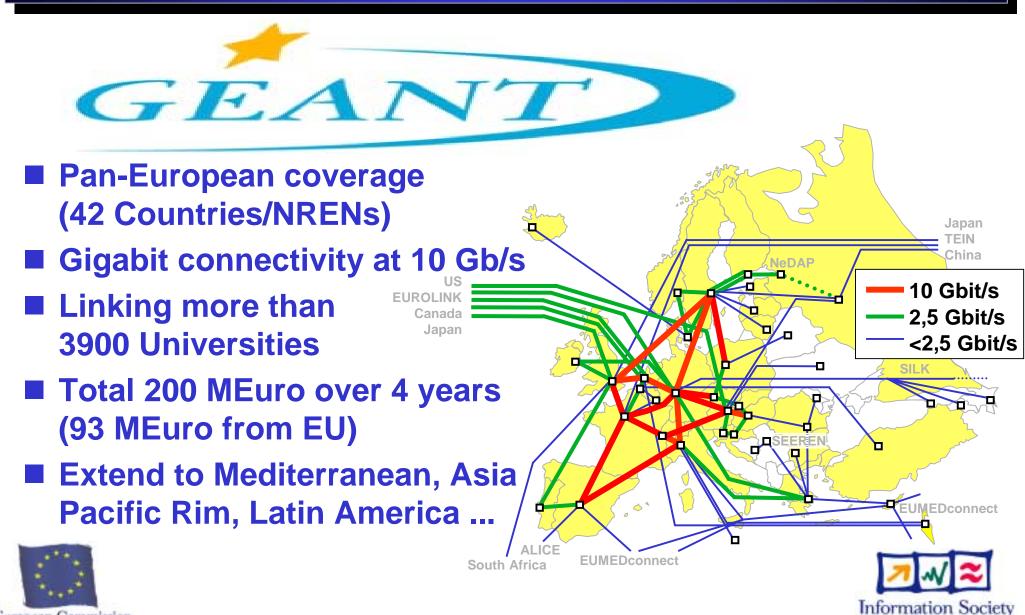
# **Research Networking: The Current Model**



# **Global Reach and Services**



# **Research Networking**



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# **End-to-End Services**

Flexible control and sharing of distributed resources

Resources can be distributed world-wide



Resources can be of any information type (storage, computing, networking, instrumentation, etc)



Access to them is provided in a secure, coordinated, seamless, dynamic and inexpensive way





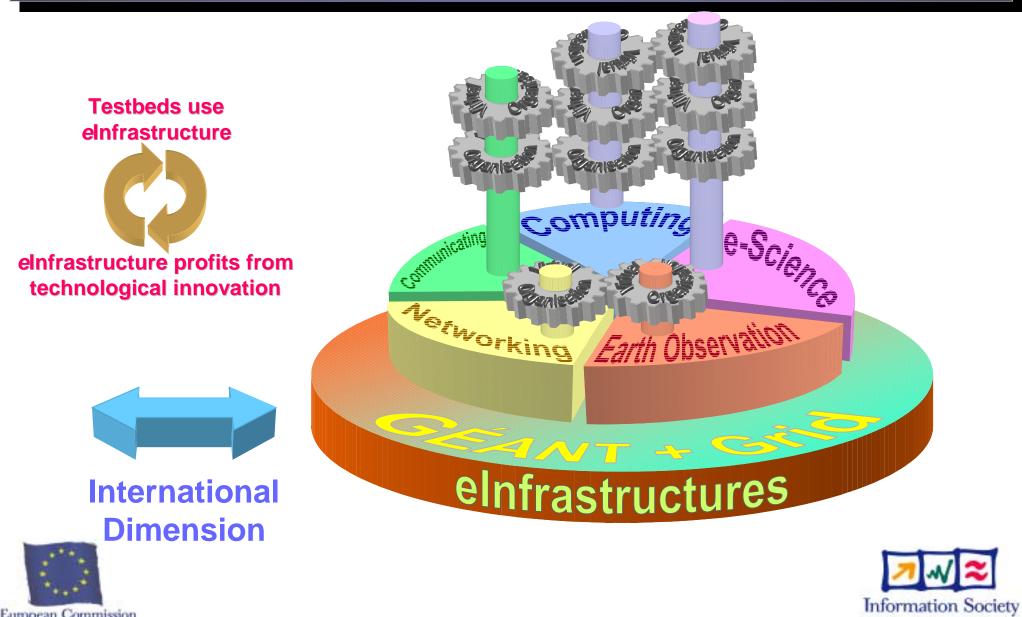
Virtual Research Organisations



### Vision: Create an elnfrastructure



# eInfrastructures: The Model



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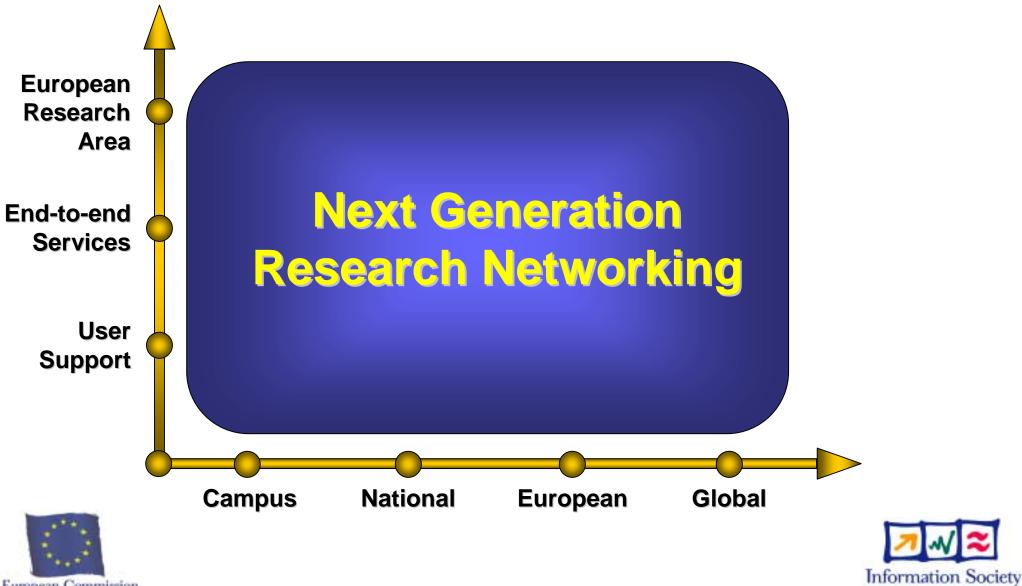
#### **Research e-Infrastructures:**

- Corner-stone of the European Research Area (ERA)
- Second Structure Structure Structure Structure (e.g. broadband plus)
- "integrator" of National Infrastructures
- powerful "instrument" for International Cooperation
- Content of the second standards, industry, etc...



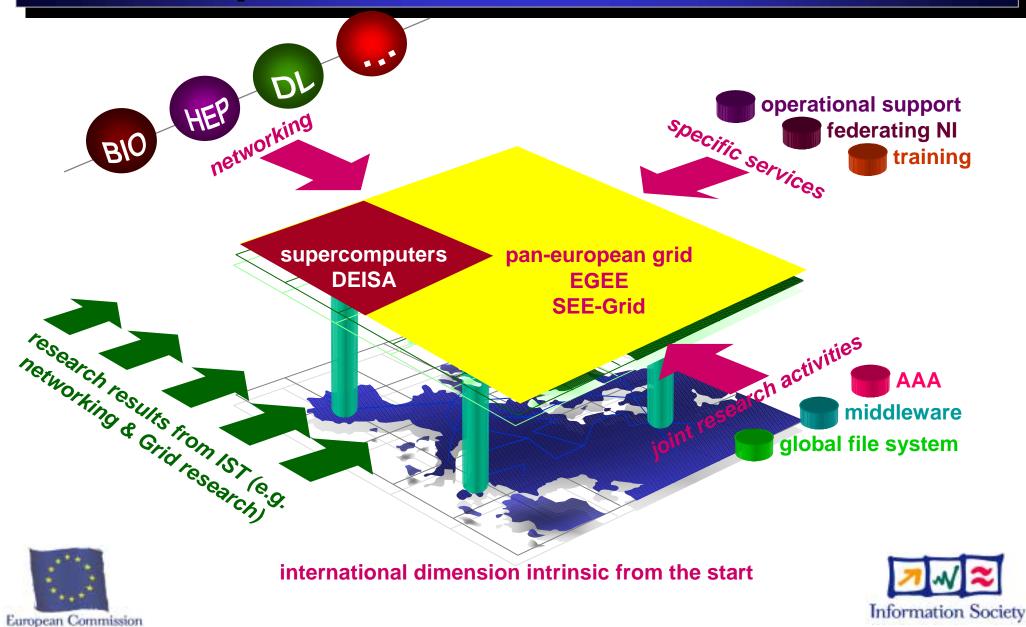


# **Research Networking – The Goal to Reach**



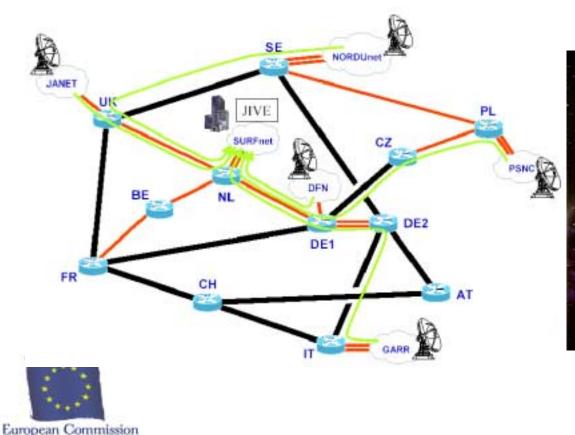
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## First Steps towards an e-Infrastructure



### **Change the Way Research is Done!**

#### Example of an elnfrastructure: eVLBI Radio-Telescopes interconnected by lambdas provided by the NRENs and GÉANT







- With the support of the of the European Union's R&D Programmes a new generation of infrastructures for research (GÉANT and Grids) has been launched elnfrastructures
- The individual researcher is at the center of our attention
- eInfrastructures are changing the way research is done

The provision of an *e*Infrastructure is fundamental for the realisation of the European Research Area (ERA)



