

IPv6 in the 6th Framework Programme

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"The views expressed in this presentation are those of the author and do not necessarily reflect the views of the European Commission"



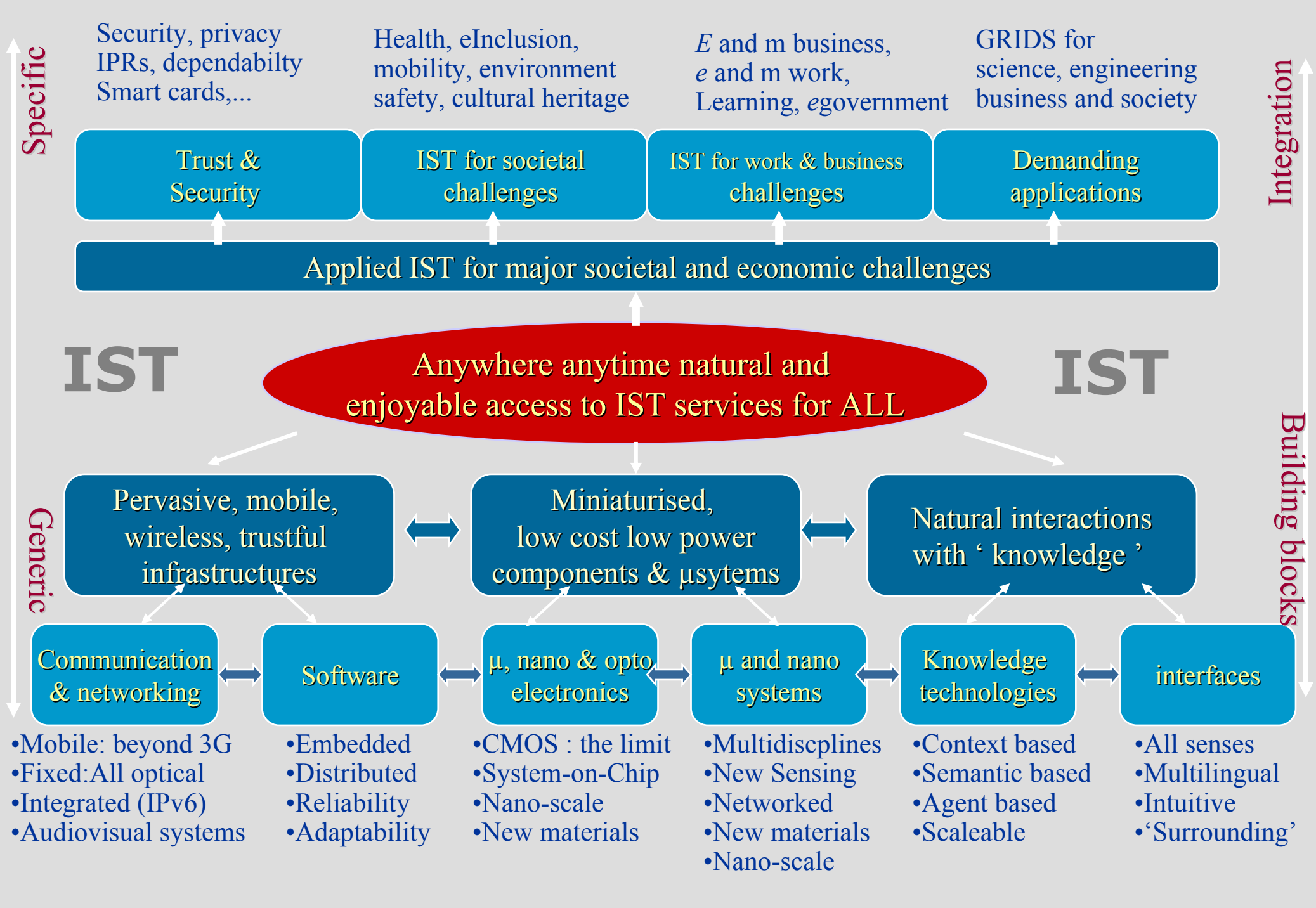
The Components of FP6

| INTEGRATING EUROPEAN RESEARCH | | | | | | | | | |
|---|----------------------------------|---|-----------------------|------------------------------|--|---|---|--|--|
| PRIORITY THEMATIC AREAS | | | | | | | ANTICIPATING S/T NEEDS | | |
| Genomic and biotechnology for health | Information society technologies | Nanotechnologies, intelligent mat., new production processes | Aeronautics and space | Food safety and health risks | Sustainable development and global change | Citizens and governance in the knowledge society | Research for policy support | Frontier research, unexpected developments | |
| | | | | | | | Specific SME activities | | |
| | | | | | | | Specific international cooperation activities | | |
| | | | | | | | JRC activities | | |

| STRUCTURING THE ERA | | | |
|-------------------------|----------------------------|--------------------------|---------------------|
| Research and innovation | Human resources & mobility | Research infrastructures | Science and society |

| STRENGTHENING THE FOUNDATIONS OF ERA | |
|--------------------------------------|---|
| Coordination of research activities | Development of research/innovation policies |





FP6 IST Priority (2): Test-beds

⇒ IST WP2003:

2.3.5 Research networking test-beds

“To integrate and validate, in the context of user-driven large scale test-beds, the state-of-the-art technology that is essential for preparing the future upgrades in the infrastructure deployed across Europe.”



IST WP2003: 2.3.5 Test-beds

- ➔ **Addressed in 2nd IST Call**
DL 15 October 2003
Evaluation in early November
- ➔ **Projects to start mid 2004**
- ➔ **20-30 MEuro Funding available in this Call**
(50 MEuro in total for Test-beds in IST)
 - ➔ **Large multidisciplinary consortium with many actors from different sectors to be involved**
 - ➔ **Addressing large scale issues (like in the past the introduction of IPv6 in Europe/NRENs)**



Further Information

⇒ IPv6 - subjects covered in:

⇒ Information Society Technologies (IST)

www.cordis.lu/ist/

⇒ Test-beds

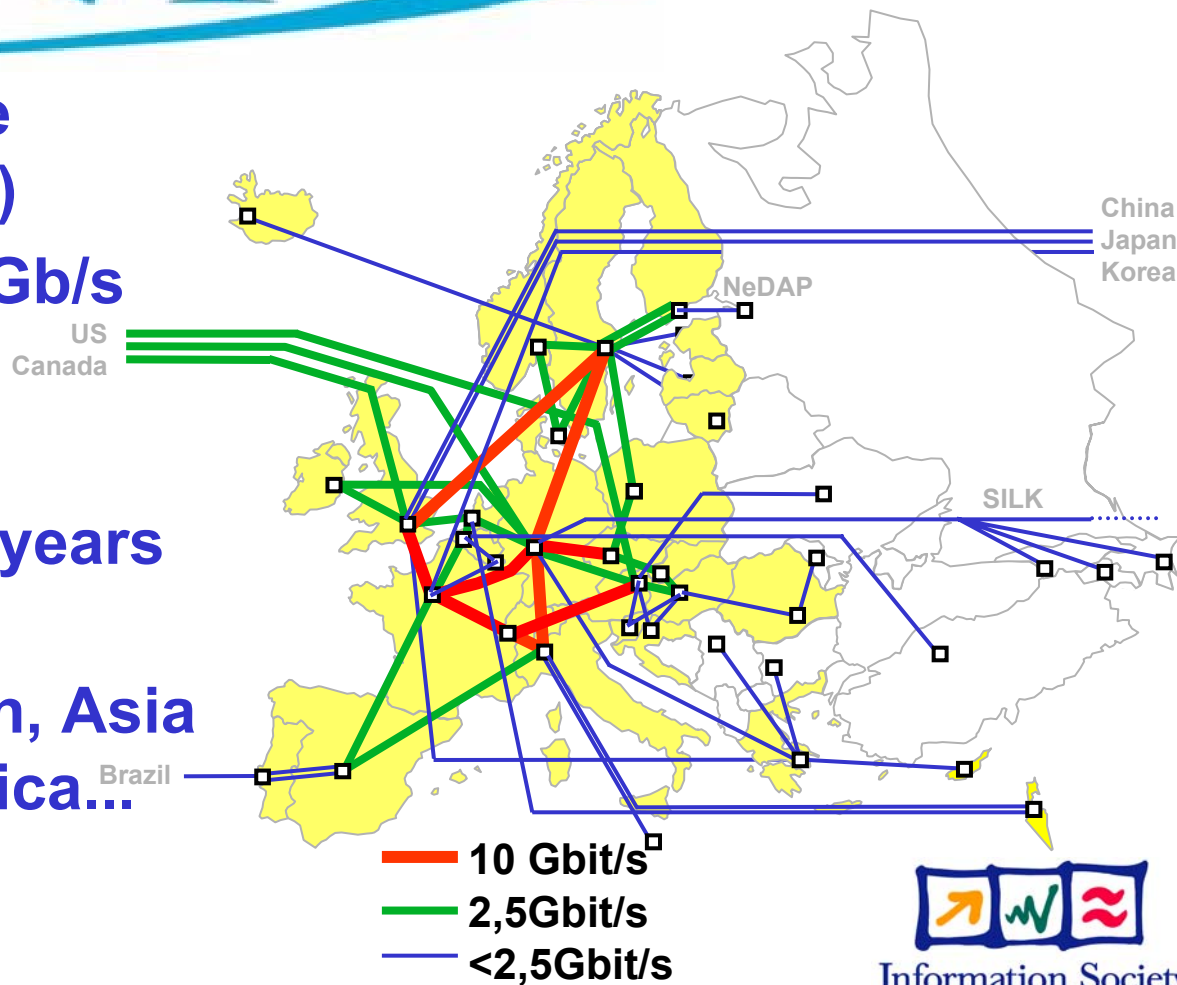
www.cordis.lu/ist/rn/home.html



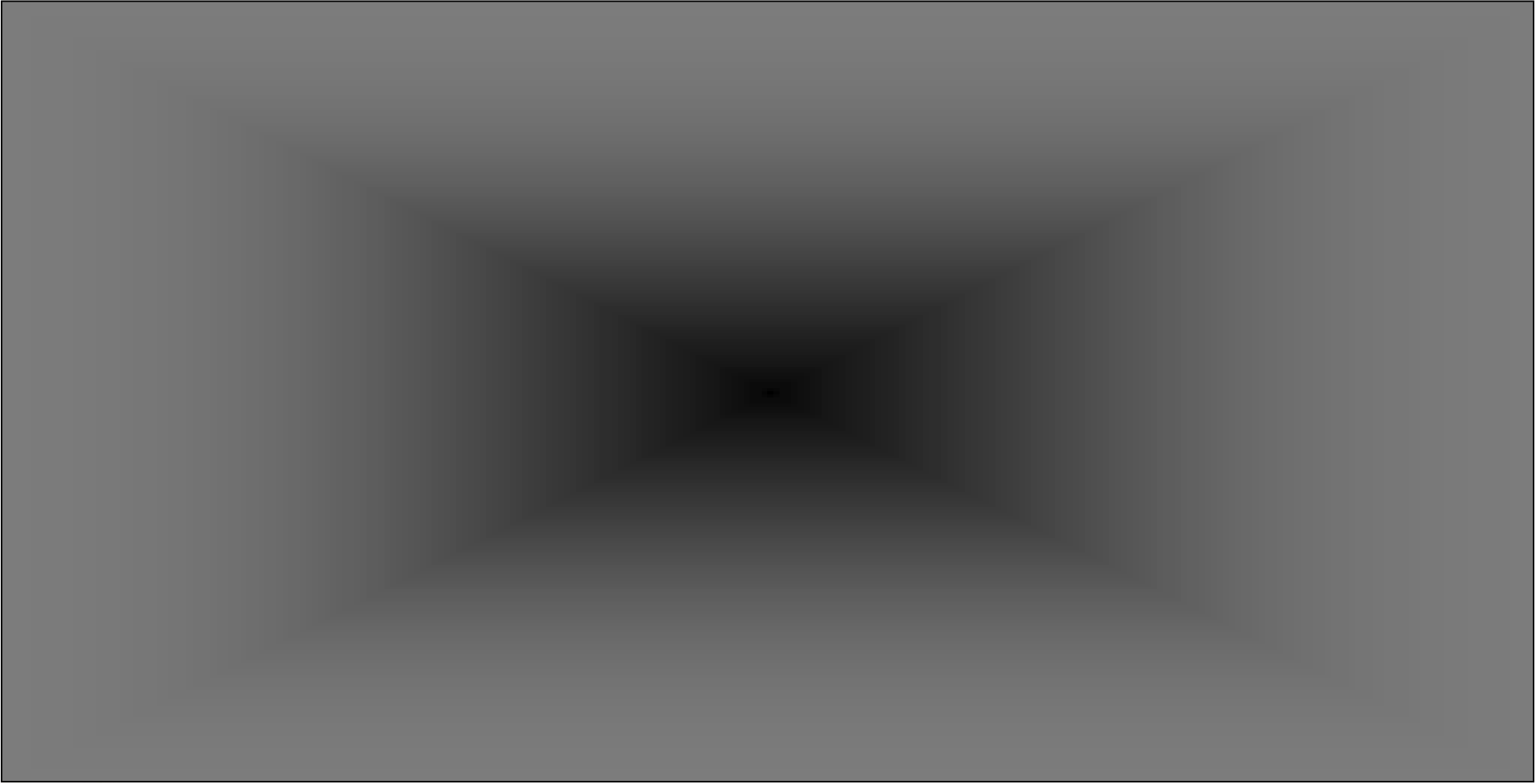
Research Networks using IPv6



- Pan-European coverage (32+4 Countries/NRENs)
- IPv6 connectivity at 10 Gb/s
- Linking more than 3100 Universities
- Total 200 MEuro over 4 years (80 MEuro from EU)
- Extend to Mediterranean, Asia Pacific Rim, Latin America...



IPv6 in FP6: a Black Hole?



IPv6 in FP6: a Bright Future?



IPv6 is like Water!

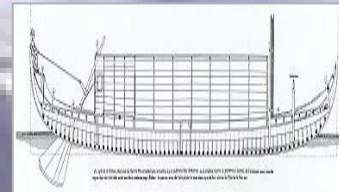
Basic Needs

Address Space, end-to-end



Trade and Commerce

e-commerce, security

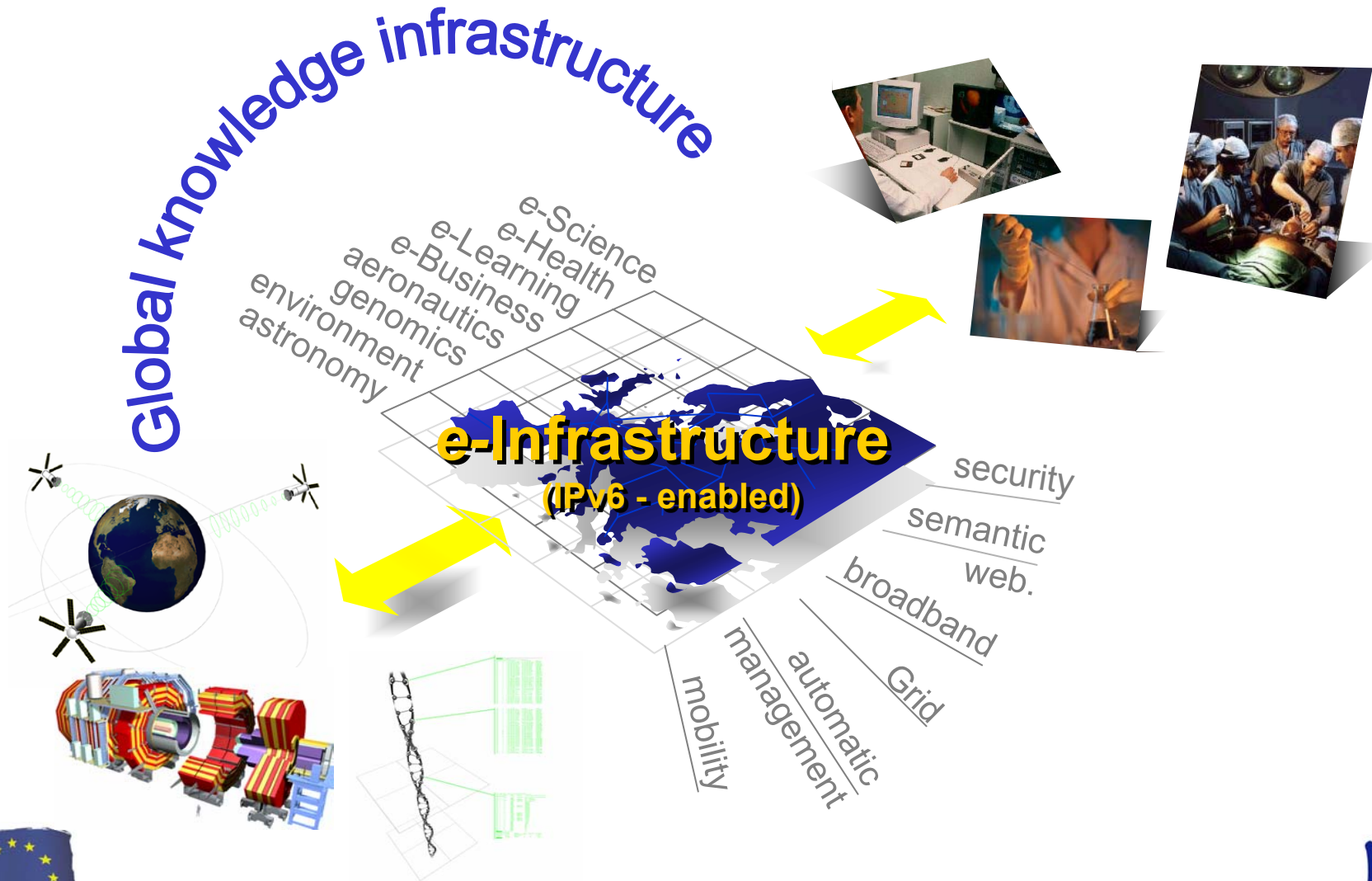


Improving Quality of Life

IPv6 is more Fun



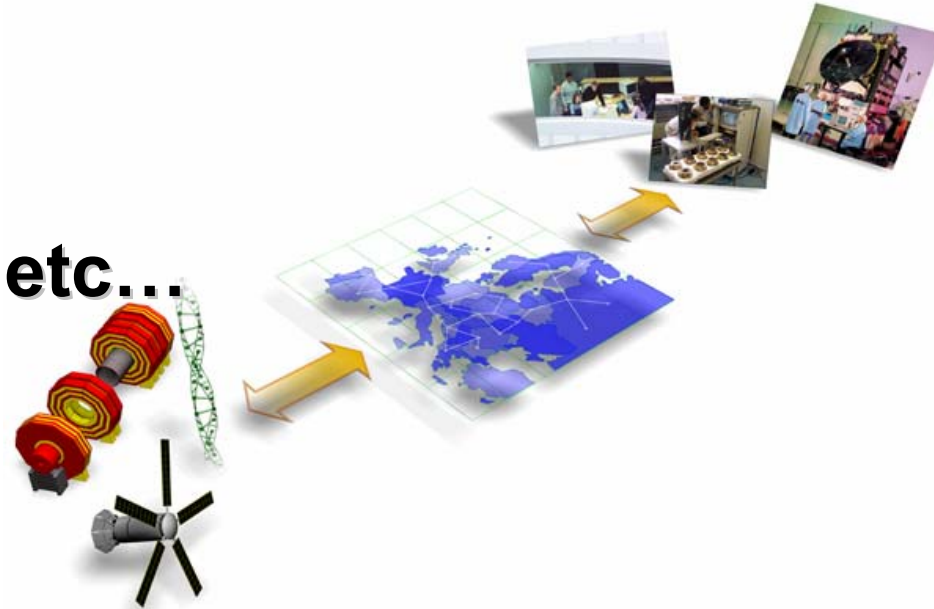
Vision: Create an e-Infrastructure



Policies

Research e-Infrastructures:

- ⇒ “corner-stone” of ERA
- ⇒ “spear-head” of an “eEurope Infrastructure” (e.g. IPv6)
- ⇒ “integrator” of National Infrastructures
- ⇒ powerful “instrument” for International Cooperation
- ⇒ ... cohesion, cooperation, etc...



Conclusions

- ➔ **With the support of the IST Programme and in the context of the eEurope action plan, the next generation Internet Protocol - IPv6 - has been launched**
- ➔ **The EU is investing in FP6 in Research Networks (GEANT), GRIDS, Photonics to support highly demanding user community**

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

