THE FUTURE OF THE INTERNET

Perspectives emerging from R&D in Europe

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Internet and the Past, Present and Future of Europe

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@The Future of the Internet,
31.3.2008, Bled, Slovenia
AD500, Istanbul: Hagia Sophia, 31m
AD 1500, Istanbul: Süleymaniye Mosque, 26m
AD1600: St. Peters in Rome, 42 m
parchment available to few
cheap paper technology from China
531. DONATO BRAMANTE. Original Plan for
St. Peter's, Rome. 1506 (after Geymüller)
The Renaissance follows.
Europe takes the lead.
What happened

1st communication revolution - paper

2nd communication revolution - internet
Communication Revolutions

- communication available to few
- communication available to many
- before 15th century paper available to few
- after 15th century paper available to many
- impact:
  - science & technology
  - innovation process
  - ways to do business (globalization)
  - society in general
  - governments
Internet: 2nd Communication Revolution
Impact on globalization

- freedom in politics
  - fall of iron curtain and Berlin wall
- freedom in trade
  - free trade agreements in WTO and GATT
- advances in logistics
  - of goods: container ships, DHL, UPS …
  - of information: internet, mobile phones
- Europe a follower, not driver of these processes
Impacts on governments

- talk
  - autocratic, the court decides
  - participation of a room, square-full of people

- writing, press
  - representative of a representative of a representative

- internet
  - people can take part
But it is one way...
Web 2.0

- web-technology that aims to facilitate **creativity, collaboration, and sharing** between users

**Web 1.0:**
- read only
- top down
- catalogue

**Web 2.0**
- read/write,
- bottom up
- **bazaar**
Web 2.0 meets Lisbon Strategy

2.1

- *the* European strategy for tackling globalization, for growth and jobs
- timeline
  - 1.0 Original Lisbon Strategy y2000
  - 2.0 Renewed Lisbon Strategy 2005
  - 2.1 Updated Lisbon Strategy 2008
- making Europe more dynamic, creative, entrepreneurial, market economy that cares
- cares
  - for people,
  - for nature.
Lisbon Strategy 2.1 as a response to a communication revolution

- **more creative and innovative Europe**
  - not innovation by a few but creativity of most
  - knowledge as 5th freedom - open innovation, open standards, open access to knowledge
  - all EU schools with broadband,

- **more entrepreneurial Europe**
  - competition in network industries (incl. electronic communication)
  - single European e-market
  - cross-border interoperable solutions for electronic signature and e-authentication

- **care for people**
  - investing more and more effectively in human capital and creativity

- **climate change**
  - SET plan, smart grids, democratic energy, energy 2.0 … hmm
Specifically on e-infrastructures

- **scientific e-infrastructure and high-speed internet usage** must be significantly increased.

- Member States should aim to **make high-speed internet available to all schools by 2010** and to set ambitious national targets for household access as part of their National Reform Programmes.
Specifically on 5th freedom

- In order to become a truly modern and competitive economy, and building on the work carried out on the future of science and technology and on the modernisation of universities, Member States and the EU must remove barriers to the free movement of knowledge by creating a "fifth freedom" based on:
  - enhancing the cross-border mobility of researchers, as well as students, scientists, and university teaching staff,
  - making the labour market for European researchers more open and competitive,
  - providing better career structures, transparency and family-friendliness,
  - further implementing higher education reforms,
  - facilitating and promoting the optimal use of intellectual property created in public research organisations so as to increase knowledge transfer to industry, in particular through an "IP Charter" to be adopted before the end of the year,
  - encouraging open access to knowledge and open innovation,
In summary

- Communication **revolutions** change the way we live together
  - change culture, innovation, technology, even political process
  - they allow for broader participation
  - we are at the middle of such a revolution

- Internet allowing **more talents to take part in creativity and innovation**
  - governments, businesses, politics should exploit this
  - updated Lisbon strategy for growth and jobs is taking note

- The research and development is not over
The End

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