Future Internet Visionary Expert Panel

FIA'09 Conference - Prague

Future Internet Forum of EU Member Countries

Prof. Dr. Reinhard Posch

The Expert Panel

↔ **Jean-Charles Hourcade** - former Directeur Général Adjoint and CTO at Thomson.

↔ **Yrjö Neuvo** - Chairman of ARTEMIS JTI Governing Board 2007 – 2008, Chief Technology Officer and a member of the Group Executive Board in Nokia and Professor and Research Director at Helsinki University of Technology

↔ **Reinhard Posch** - Professor at the University of Technology Graz, Chief Information Officer (CIO) of the Austrian Government and Chairman of the board of ENISA.

↔ **Roberto Saracco** - Director of the Telecom Italia Future Centre

↔ **Wolfgang Wahlster** - CEO of DFKI and a Professor of Computer Science at Saarland University

↔ **Michael Sharpe** - Director of MS Consulting & Research Ltd – Expert Panel Rapporteur

Approach Taken

- **To what extent is Europe capable to contribute to this scenario?**
- **What is at stake for Europe?**
- **Which are the obstacles to the realisation of this scenario?**

First, collectively develop a set of potential scenarios for the Future Internet post 2020.

Second, explore how can Europe drive such developments?

- **To which degree and how can the competitiveness of Europe be strengthened should the scenario become a reality?**
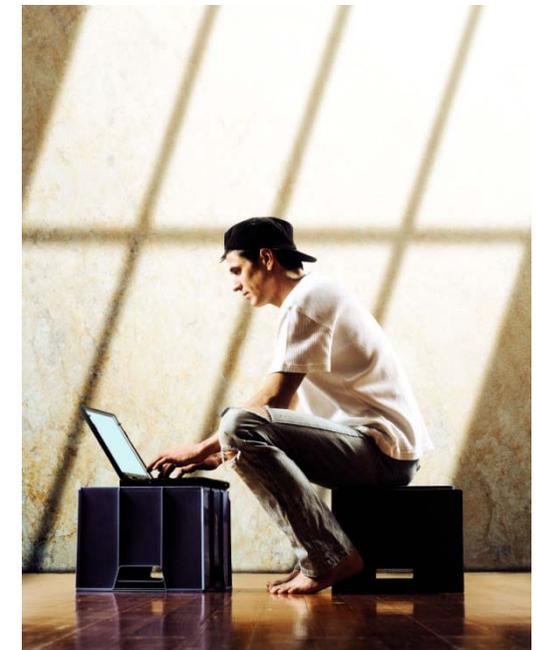- **Which concrete actions should be undertaken?**

- **Which are the strengths Europe could draw upon to build this scenario?**
- **Is our industrial and academic base adequate to deal with the issue?**
- **What should Europe do to ensure its contribution to this scenario?**
- **How to better stimulate the creativity and innovation of European actors?**

Scenarios: Example

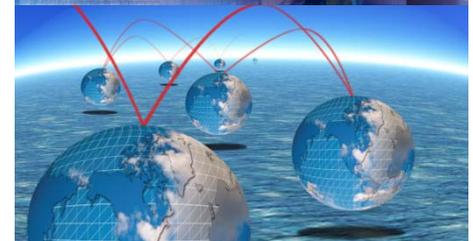The Future Internet infrastructure will need to be architected differently

- Seamless mobility – Trustworthy information on the Move! In the network of 2020 user's information space will move seamlessly and effortlessly between home, car and office
- Interacting with family, friends and work colleagues as he goes, and always with his whole world of personal information at his fingertips.

The scenario illustrates how in the Future Internet our personal information, content and services will be available to us anywhere, at any time. Our everyday environments will be context-aware: systems and devices will be able to sense how, where and why information is being accessed and respond accordingly. The Internet will be our personal global network. This new world of seamless applications, services and content requires enhanced network infrastructures, which must be built from the ground up. In particular, it requires truly ubiquitous network including wireless capacity to handle orders of magnitude more data.

Scenarios: Many more examples centre around:

- The Market Of One: The web-based Service Economy
  - Pierre Goes to the Gym
  - Like My Car? I Designed It Myself!
- Atoms and Bits: An Internet with Things
  - The Smith Family Goes Skiing
  - Talking to the Laundry
  - The Personal Mash-up
- Pushing the horizon: New Regulatory Spaces
  - My Personal Blackbox

Challenges for Europe

1. Going beyond the limits of current technology

2. Spectrum must be valued

3. Trust and security are paramount

4. Personalisation – a double-edged sword?

5. User-driven innovation shaping societal change

6. Encouraging innovative business models

What Europe should do - I

1. Investing in Long-term research with a much stronger application focus

2. The socio-economic dimension - Shaping future developments to societal needs

3. A new role for standards - Standards as a foundation for interoperability

What Europe should do - II

4. Promoting take-up - Building critical mass in key application sectors

5. New approaches to regulation and governance – An agile regulatory environment

6. Pooling of efforts - Working together and overcoming fragmentation

Recommendations I

1. **Strengthen significantly the current R&D efforts within the EU Framework Programme.**

2. **Establish with the support of industry and the research community at large, a Public-Private-Partnership (PPP) initiative active in key end-user application sectors such as manufacturing, energy, transportation, healthcare, education and entertainment, to fully explore the interrelationships between advanced networked and service technologies and massively distributed end-user applications.**

Recommendations II

3. **The Future Internet Forum of Member States which has been announced, is encouraged to take bold steps towards a deeper and stronger cooperation across the existing and planned national Future Internet initiatives.**

4. **The Future Internet will be a global phenomenon and Europe must strive for a world-leading role. On the one hand, this means setting the pace in addressing global challenges, such as governance, accountability and sovereignty within the Future Internet, in a way that reflects our European values.**

Next Steps & Information

- **Awareness towards**
  - EU institutions & decision makers
  - EU Member Countries institutions and decision makers
  - Future Internet community and stakeholders in and elsewhere
- **FIA Community site: www.future-internet.eu**
- **European Commission: ec.europa.eu/foi**
- **Copy of the report:** ec.europa.eu/information_society/activities/foi/library/ExpertPanelReport.pdf