

# **BReATH Workshop**

## **Geneva, 11<sup>th</sup> December 2006**

### **Broadband for All**

**Views on the digital divide**

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# **Content**

**EU Policy – i2010**

**Broadband for All status (July 2006)**

**R&D activities**

**Other activities**

# Aspects of the i2010 Policy Framework, relating Broadband for All

**i2010 is a framework for the ICT contribution to the (relaunched) Lisbon Strategy for growth and employment.**

- The i2010 direct policy support activities will be funded through the Competitiveness and Innovation framework Programme (CIP).
- FP7 Programme, which will be the major funding source for “indirect” actions.



## Three Targets are defined for i2010.

### Broadband for All relates particularly to Target 1:

“Target 1: A Single European Information Space offering affordable and secure high bandwidth communications, rich and diverse content, and digital services. *By 2010 advanced broadband services should be taken up by at least 50% of EU population.*”

*[...of course, the pre-requisites of the take-up of advanced broadband services are the availability and take-up of affordable and secure advanced broadband access connections...]*

Relating to Target 1 are also Spectrum issues: “New high speed wireless applications are driving demand for **spectrum**”.[\[1\]](#)

[\[1\]](#) *E.g broadband mobile, wireless local and wide area networks (WiFi & WiMax) and digital TV*



*i2010 Target 2 is essentially a  
technology enabler*

“Target 2: World class performance in research and innovation in ICTs by closing the gap with Europe’s leading competitors. *By 2010, the EU should double its investment in ICT research.*”

This includes the FP7 programme efforts and in particular “Advanced and open communications networks” activities



# The i2010 Extended Impact Assessment (EIA)

In the E I A text, 11 main challenges defined, for the next 5 years, namely:

- “Convergence” and “Broadband Networks”.
- Also relevant are “Trust and Security”, “Innovation and Research” and “Standardisation”
- In the section on Broadband Networks, text is included indicating:

“The **EU Research Framework** (FP6 and the upcoming FP7) include specific calls for proposals to develop the network technologies and architectures, allowing a generalised and affordable availability of wired and wireless broadband access to European users. Research and Development of new wired and wireless broadband access technologies are critical in improving the competitive environment for broadband.”



# Broadband access in the EU: situation at 1 July 2006

**1-Broadband lines again growing more rapidly than a year ago**

**2-DSL is the predominant technology, has reached its peak at  
80% of all lines**

**3-Lower market share of the incumbents**

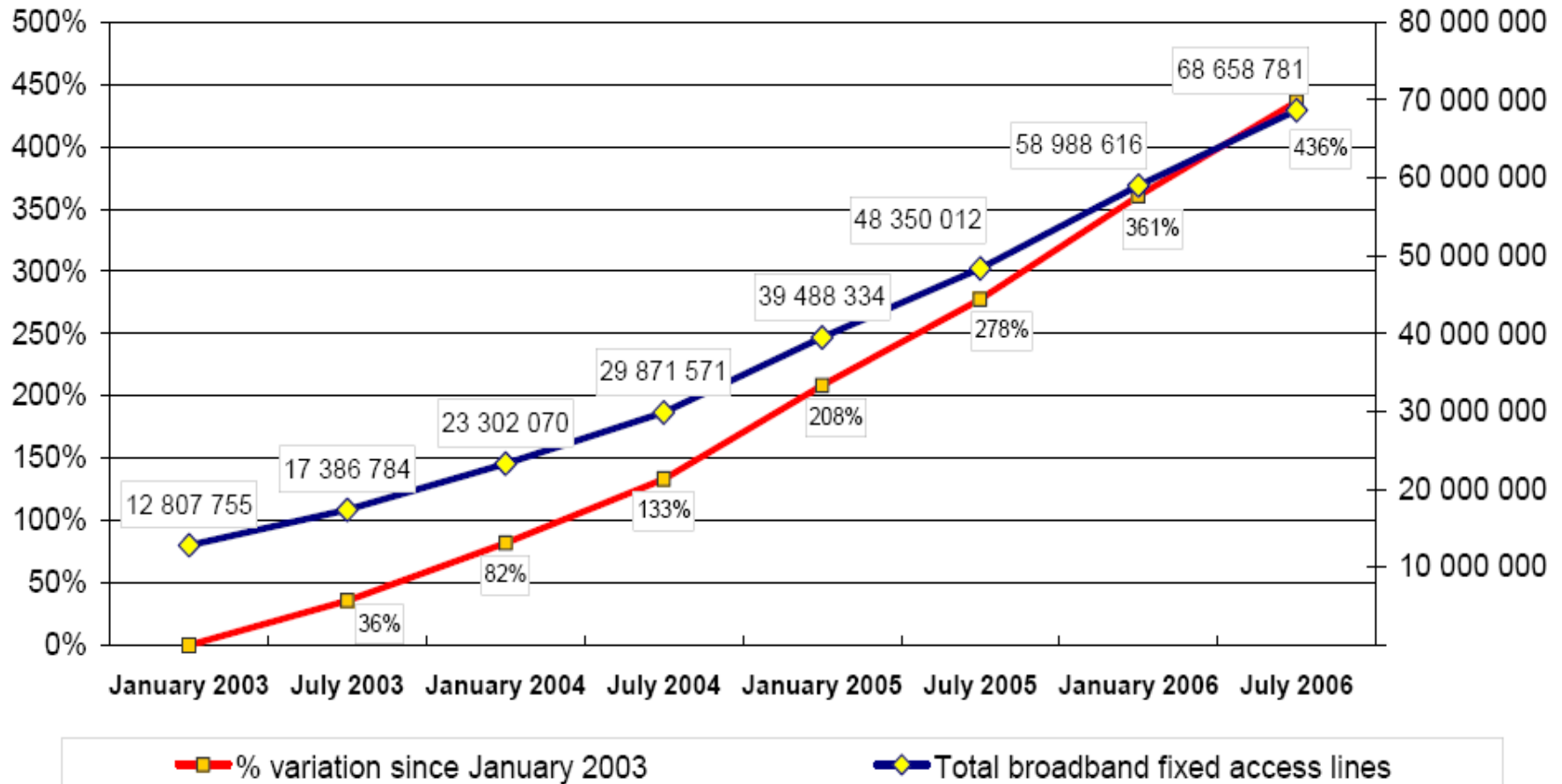
**4-Increasing network competition**



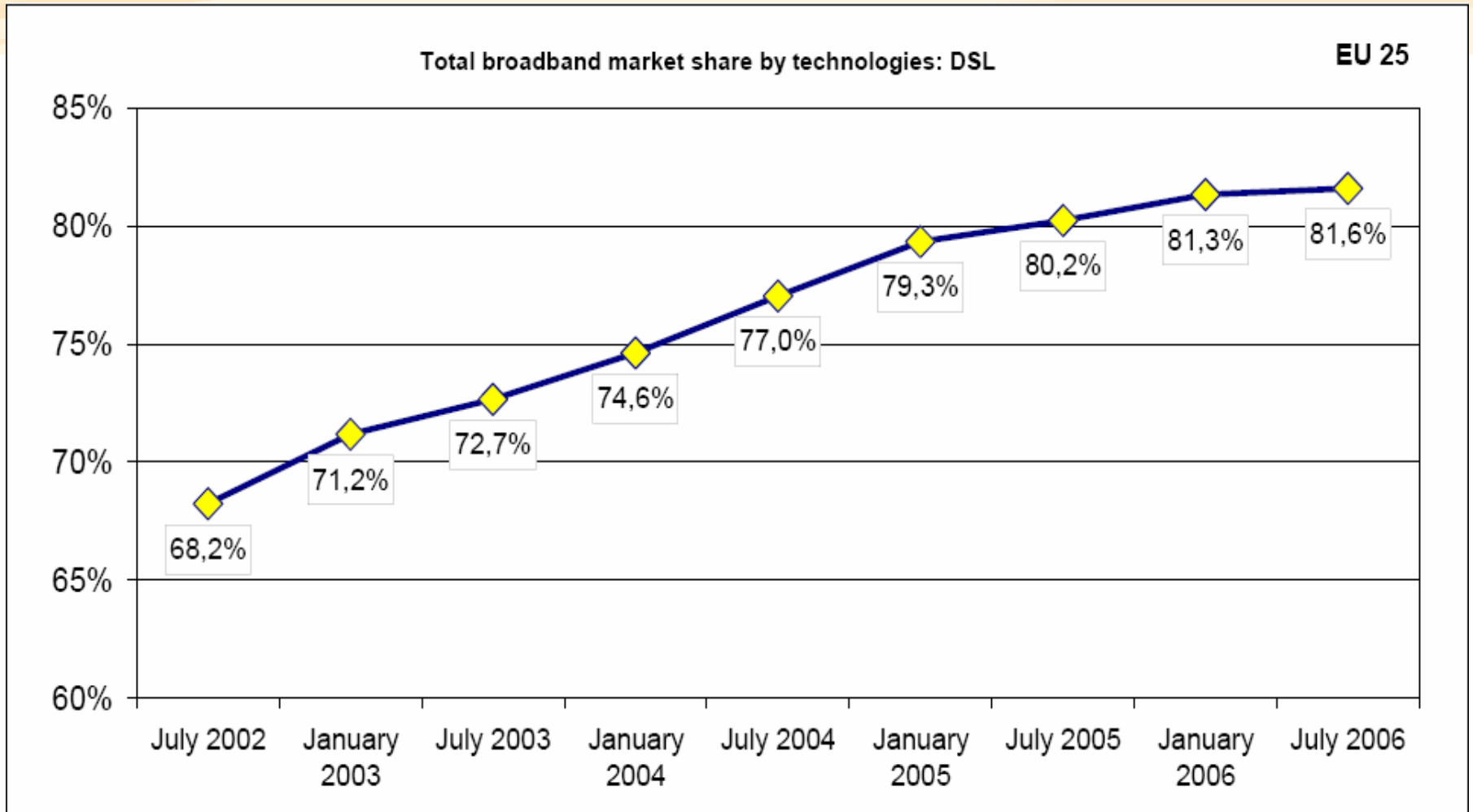
# Number of broadband lines again growing more rapidly than a year ago

Total broadband fixed access lines

EU25



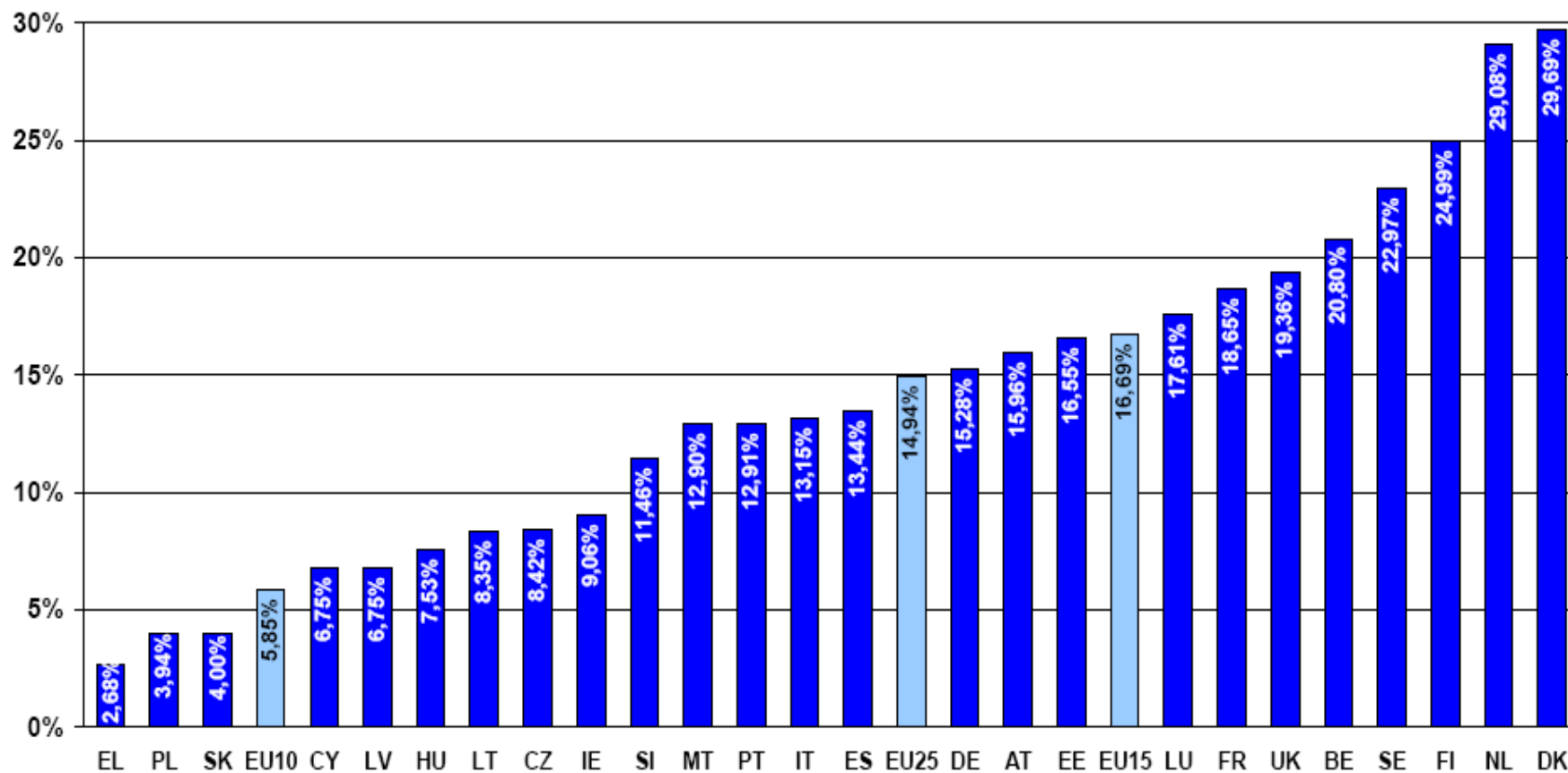
# DSL is the predominant technology, it has reached its peak at 82% of all lines



Presented views are of author's responsibility and not necessarily of European Commission Services

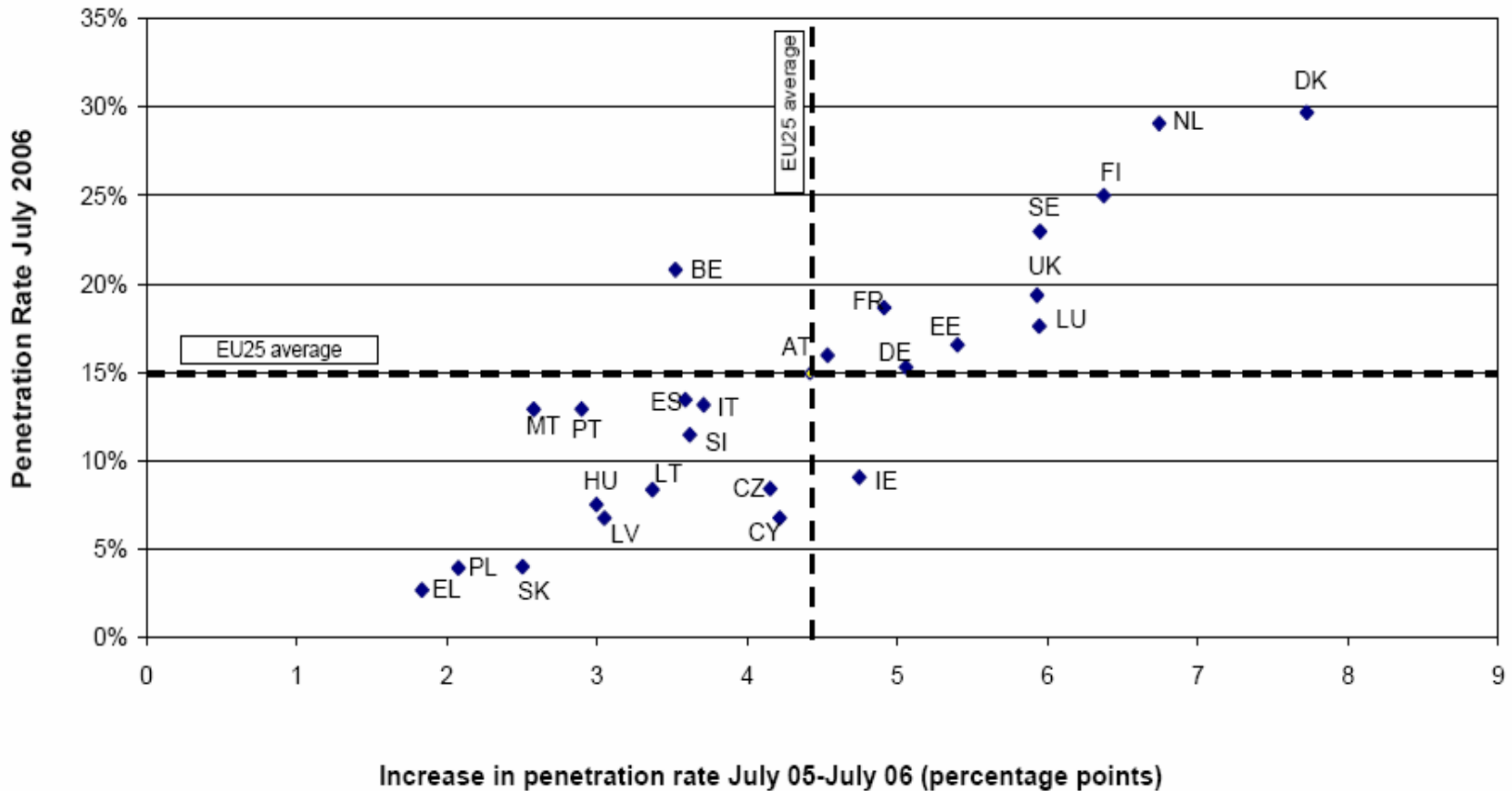
# Penetration rate

EU Broadband penetration rate, 1 July 2006



# Speed of Progress

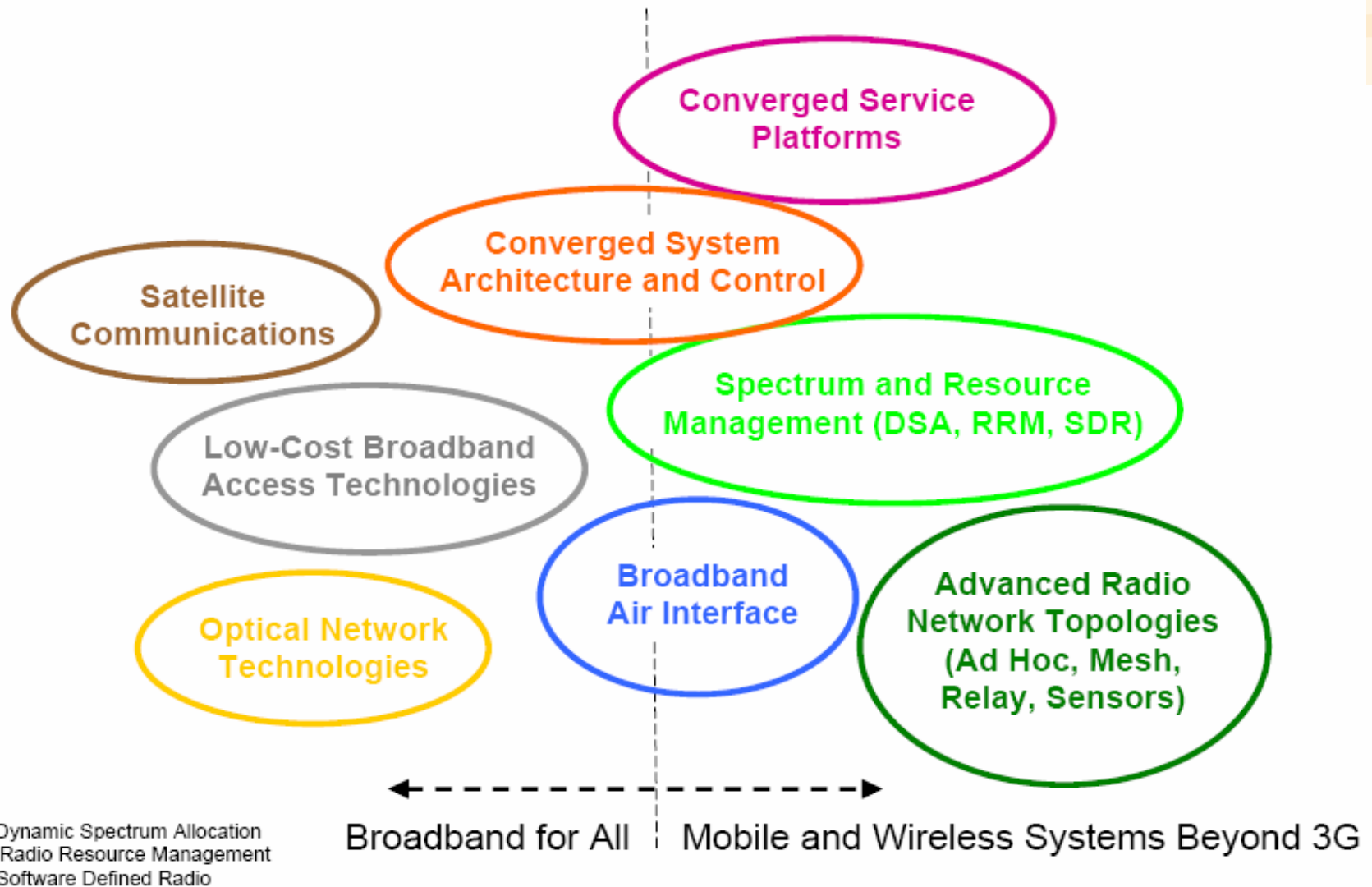
Penetration rate in July 2006 and speed of progress



# **R&D activities FP6-FP7**

**Including Broadband for All area**

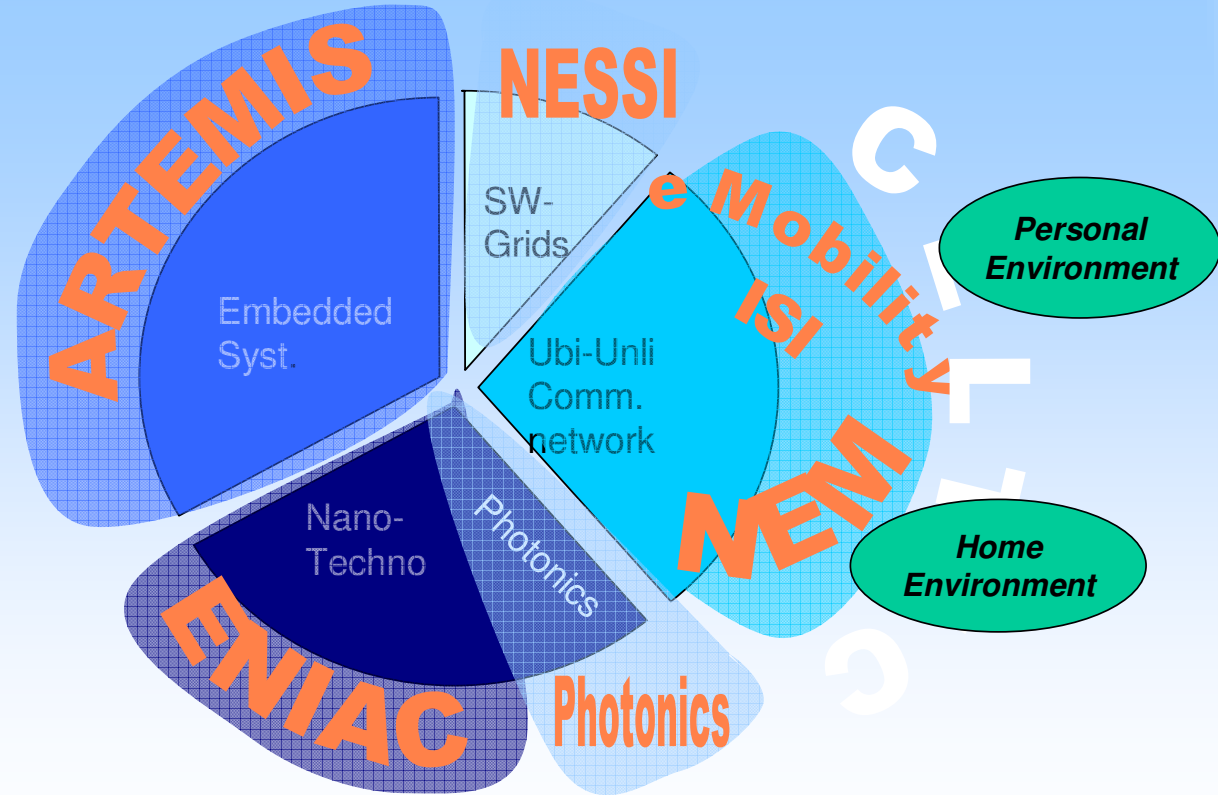
# Broadband and Mobile



# FP7-Challenge 1- Objective 3.1.1.1: The Network of the Future

- **Ubiquitous Network Infrastructures and Architectures**
  - *Convergence and interoperability of heterogeneous network technologies*
  - *Flexible and spectrum-efficient radio access*
  - *High-speed end-to-end connectivity with optimised protocols and routing*
  - *Context awareness*
  - *Support of trillions of connected devices*
- **Optimised Control, Management and Flexibility of the future network infrastructure**
  - *Seamless end-to-end network and service composition and operation across multiple access technologies, operators and business domains*
  - *Reconfigurability, self-organisation and -management*
  - *Management in real-time of new forms of ad-hoc communications with intermittent connectivity requirements and time-varying network topology*
- **Technologies and system architectures for the Future Internet**
  - *Overcoming the expected long-term limitations of current Internet technology*
  - *Scalability from a device, service attributes and application environment perspective*
  - *Security and trusted domains*
  - *New forms of routing and content delivery in a generalised mobile and wireless environment*

# FP7/ICT & ICT European Technology Platforms



# **Support Policy - Other Activities**

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# Regional Policy

- **Structural funds link**

[http://ec.europa.eu/regional\\_policy/sources/docoffic/official/regulation/newregl0713\\_en.htm](http://ec.europa.eu/regional_policy/sources/docoffic/official/regulation/newregl0713_en.htm)

- **Rules on state aids**

[http://ec.europa.eu/comm/competition/state\\_aid/reform/rdi\\_en.pdf](http://ec.europa.eu/comm/competition/state_aid/reform/rdi_en.pdf)

<http://europa.eu/rapid/pressReleasesAction.do?reference=IP/06/1600&format=HTML&aged=0&language=EN&guiLanguage=en>

<http://europa.eu/rapid/pressReleasesAction.do?reference=MEMO/06/441&format=HTML&aged=0&language=EN&guiLanguage=en>

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