

# A National Strategic Perspective from Portugal

EU Policy Workshop on Public Primary Care Standard  
for AAL Services in Europe

Lisbon, 29 June 2010

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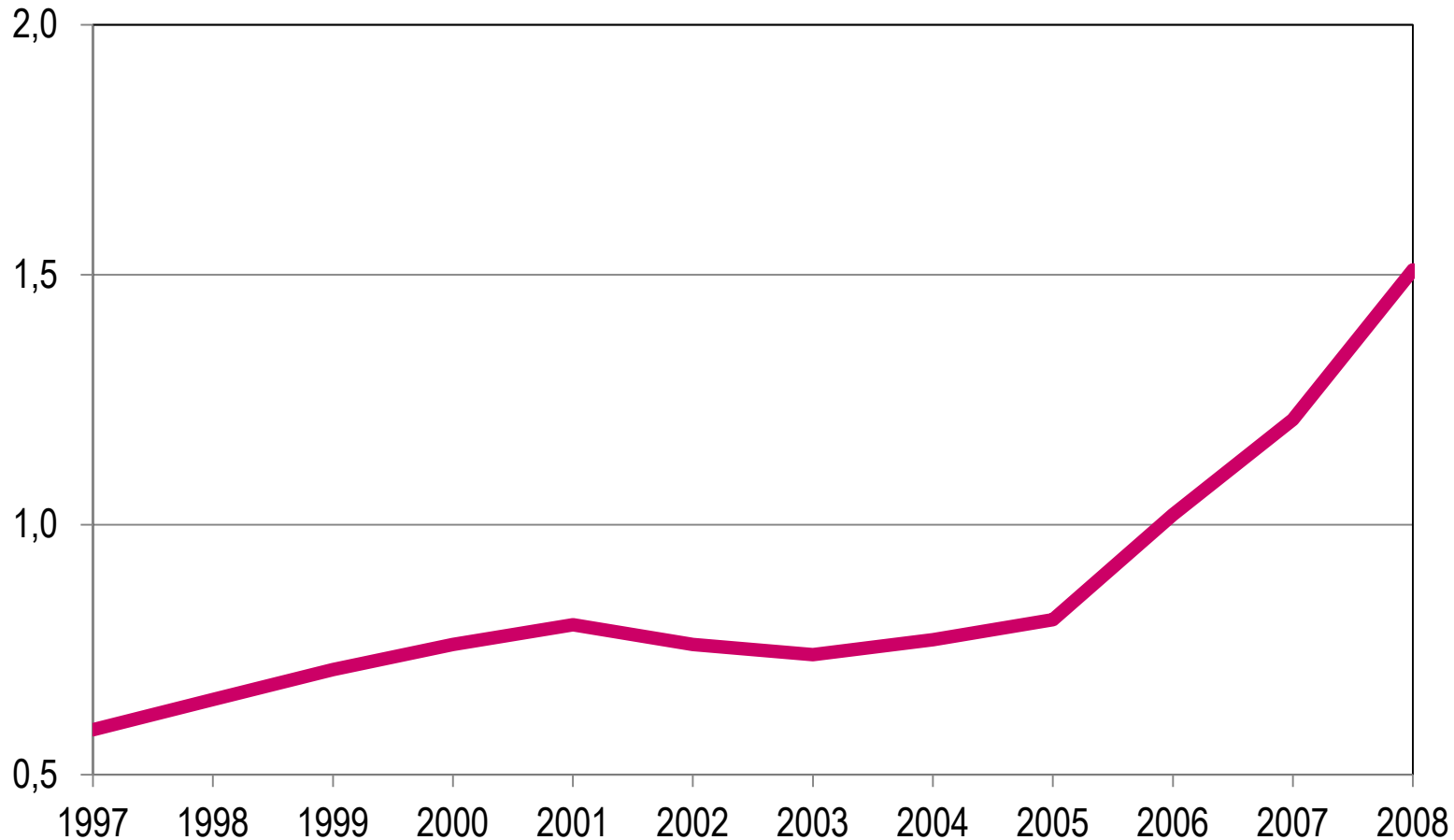


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# **Context of High S&T Growth in Portugal**

## Investment in R&D

# Evolution of R&D Expense in GNP (%), in Portugal



Source: EUROSTAT

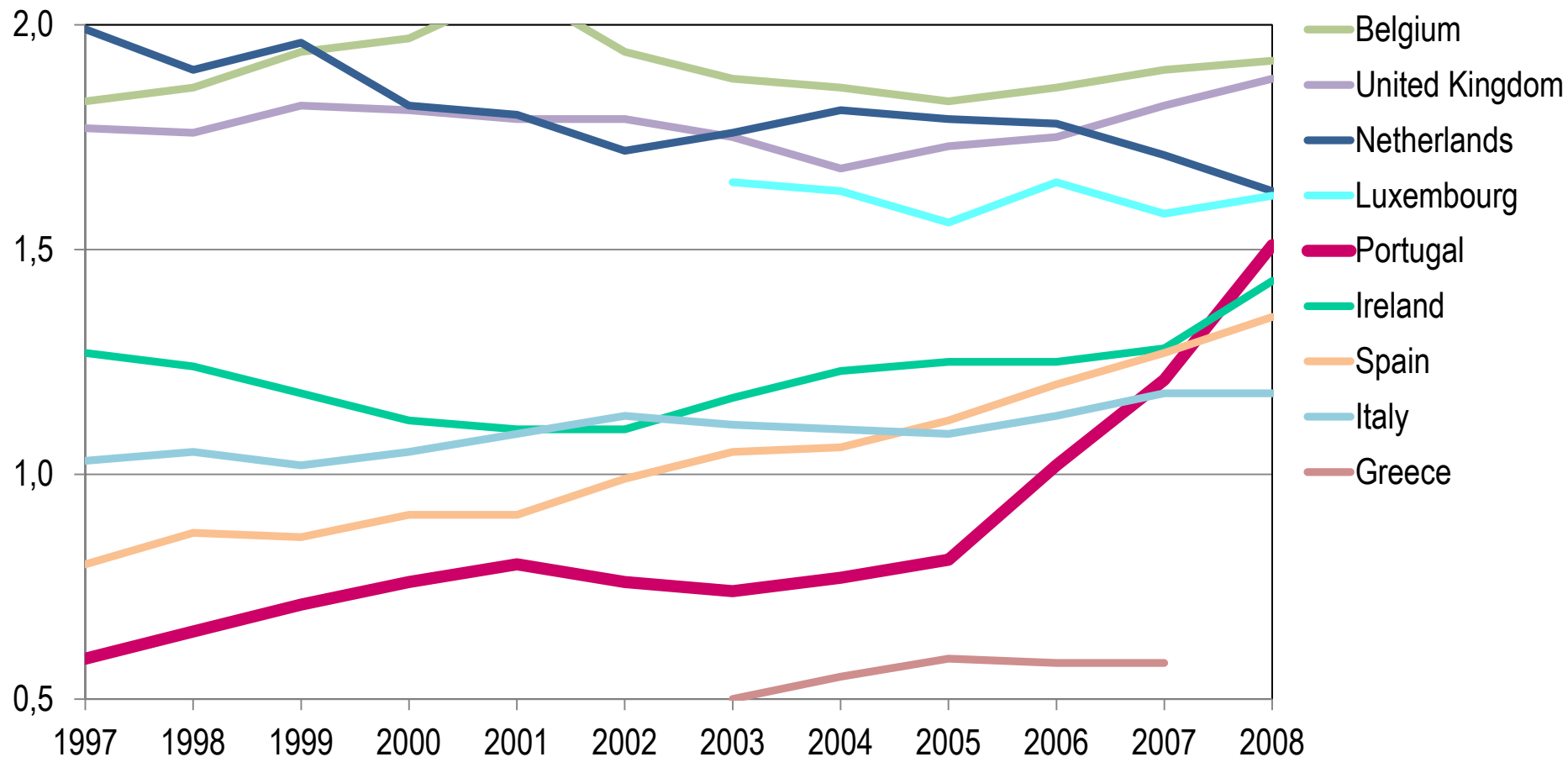


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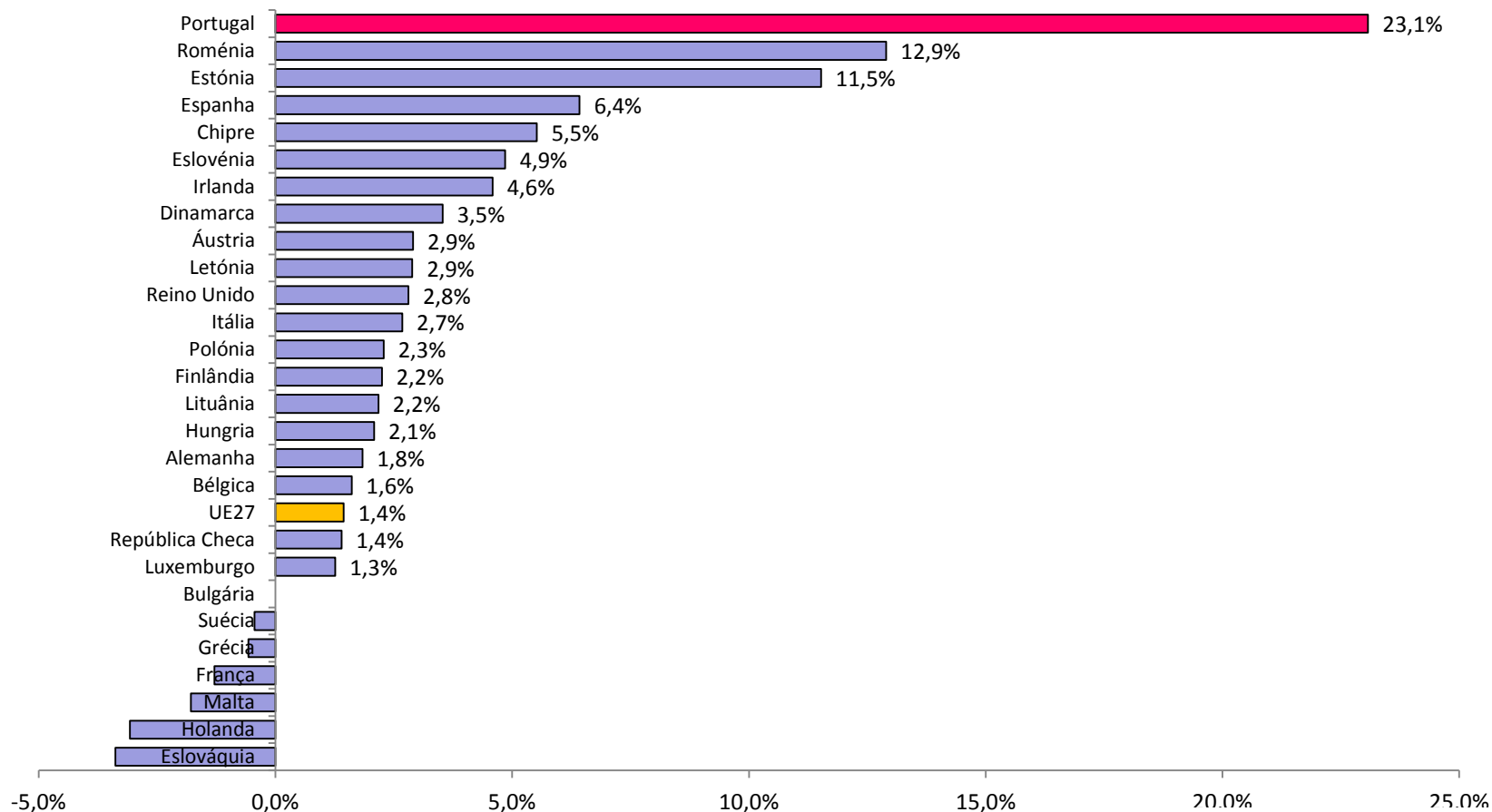
# Evolution of R&D Expense in GNP (%), in Portugal

Highest average growth (23%) of UE27 (total=1,4%) in 2005-2008



Source: EUROSTAT

# Annual Average Growth of % of R&D Expense in GNP, 2005-2008

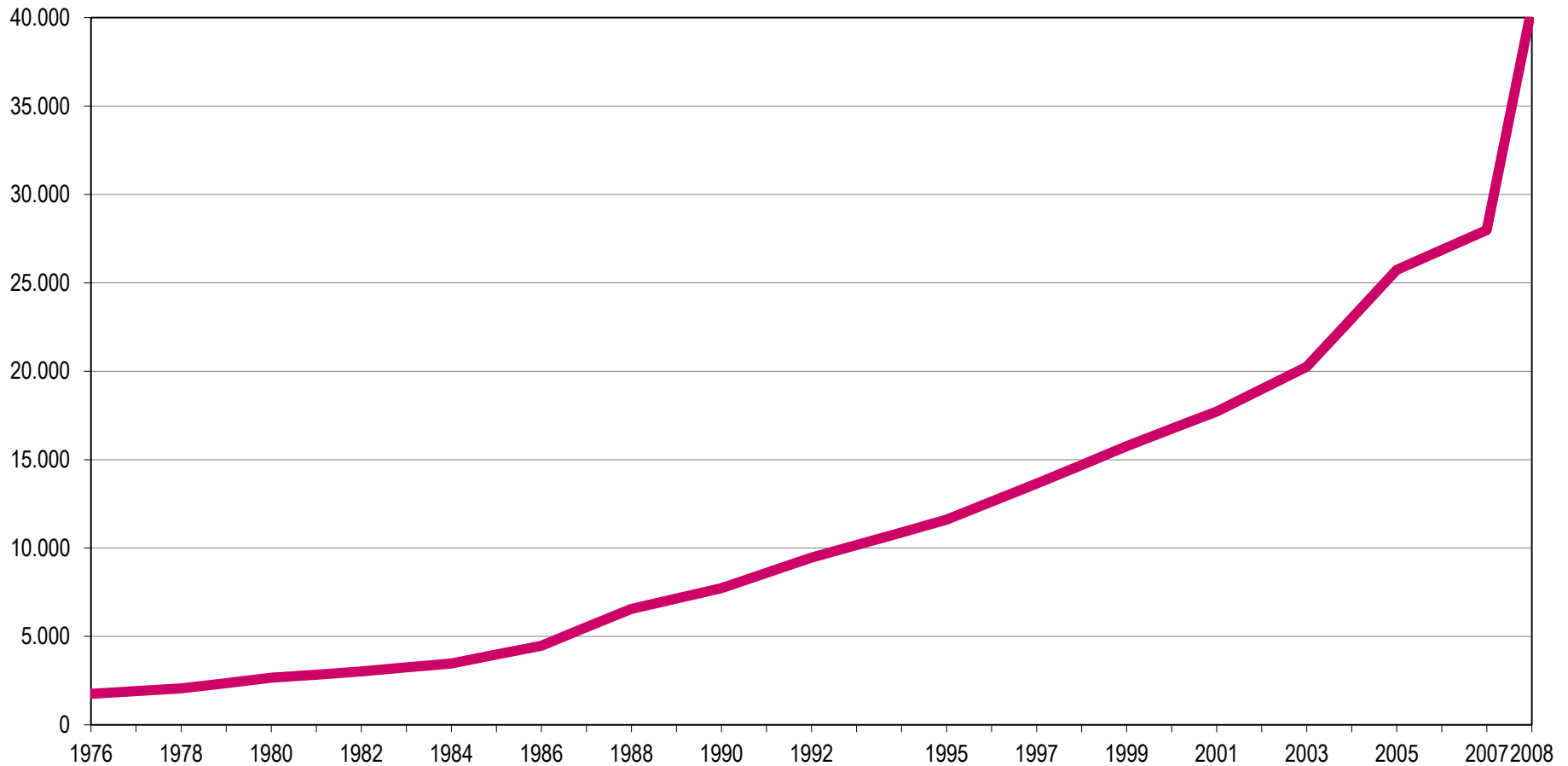


Source: EUROSTAT

# **Context of High S&T Growth in Portugal**

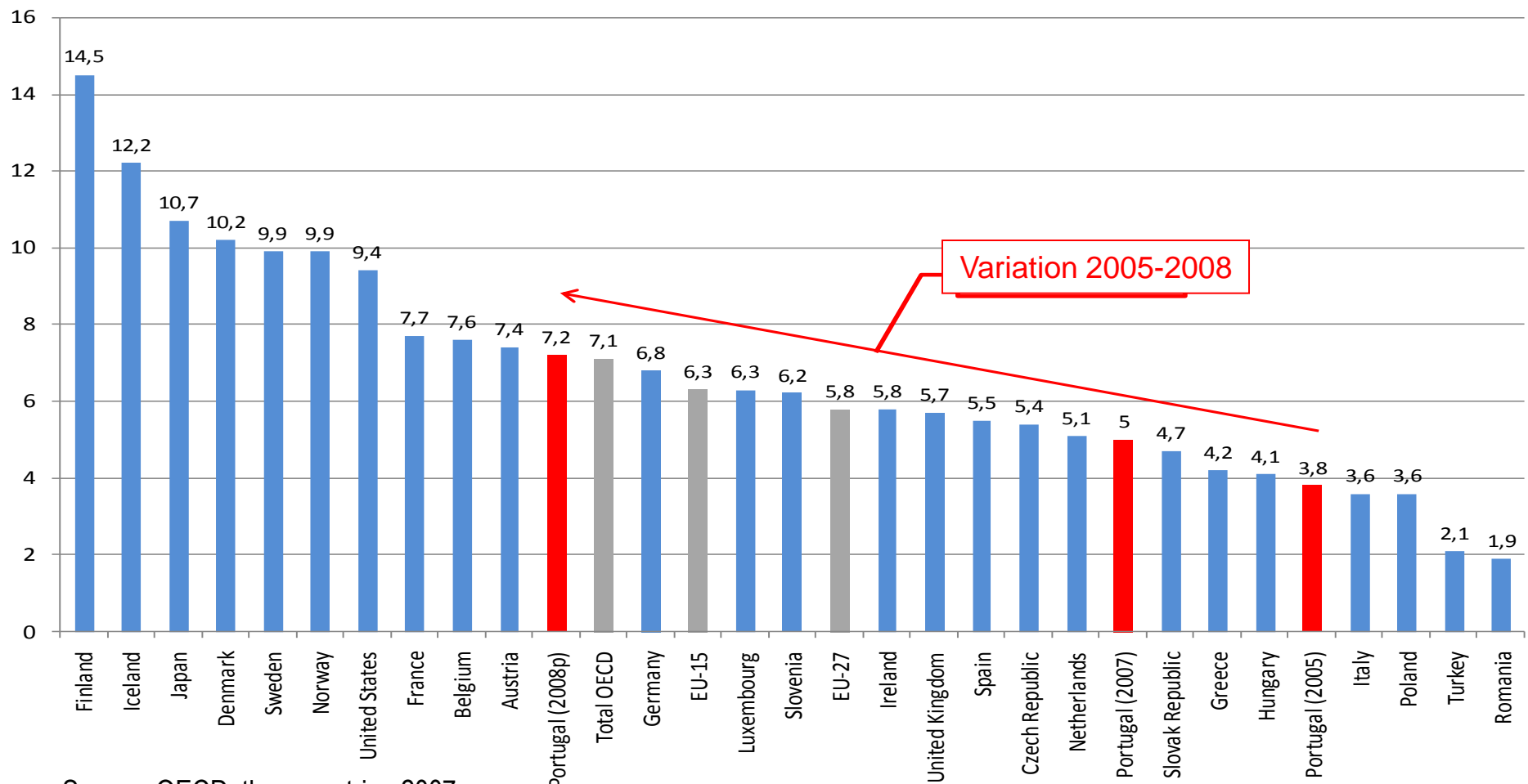
## Investment in People

# High Growth in Researchers (FTE)



Source: EUROSTAT

# High Growth in Researchers (% labor force)



Source: OECD other countries 2007



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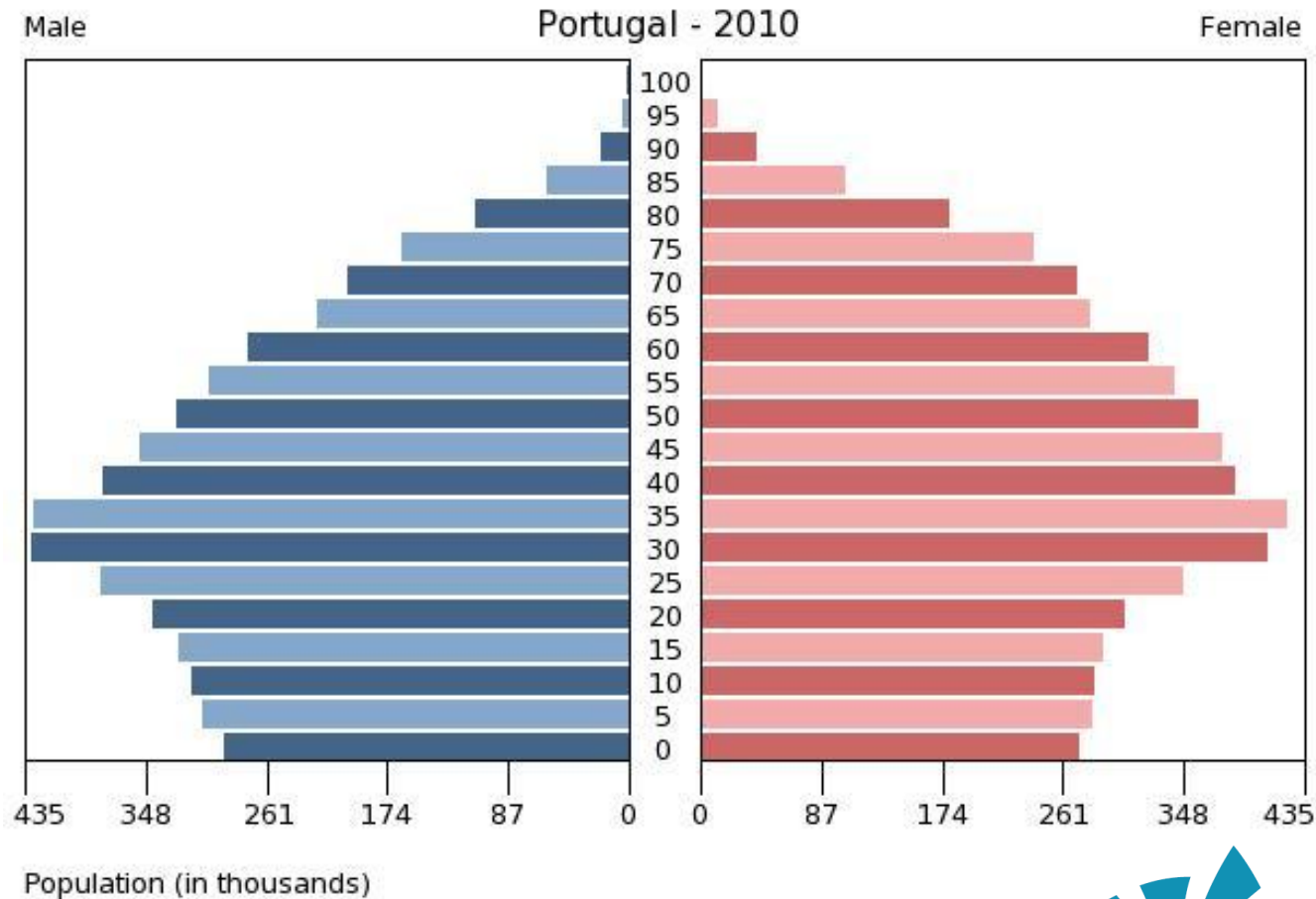


# **General Context for AAL in Portugal**

## **Demographics, ICT Use and Broadband Penetration**

# Population Pyramid

Life Expectancy at birth = 79 years



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# Regular Internet Users in Portugal

% regular Internet users by educational attainment (1Q 2009)

→ 93% people with higher education

*average UE27 2009 = 91%*

→ 87% people with upper secondary but not higher education

*average UE27 2009 = 71%*

→ 30% people without upper secondary education

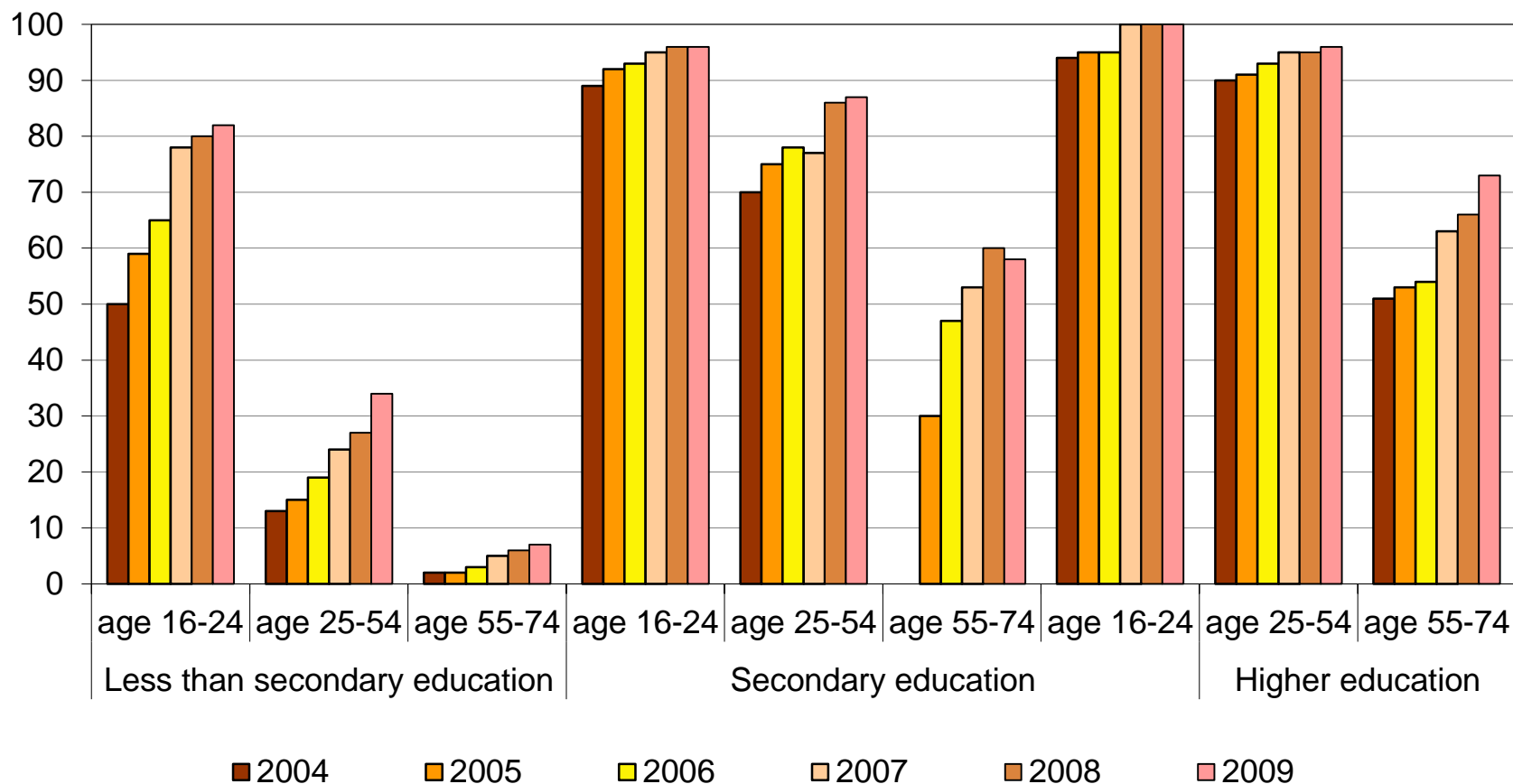
*average UE27 2009 = 43%*



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# Regular Internet Users in Portugal

## by age and educational attainment (1Q, 2009)



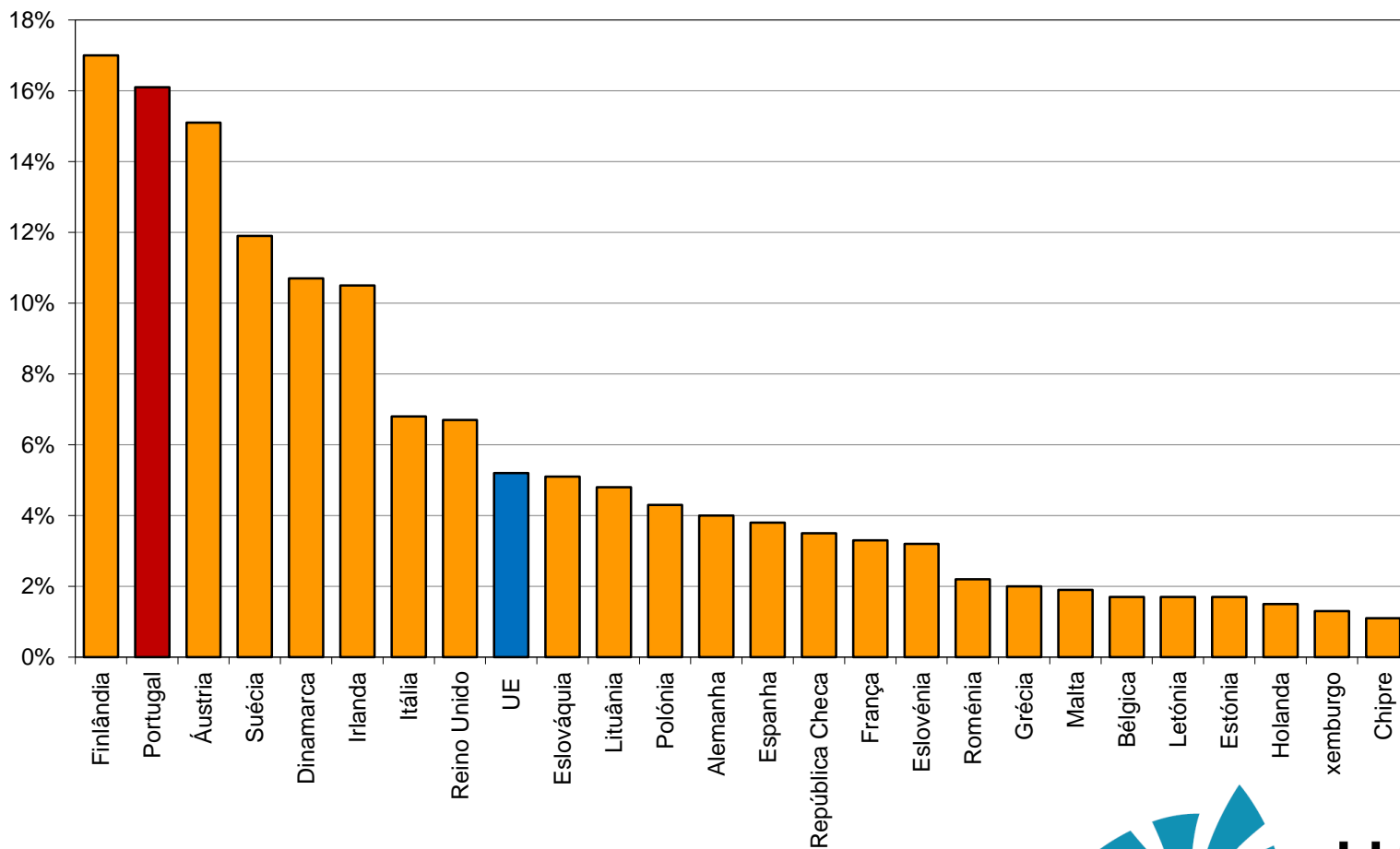
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Source: EUROSTAT

# Mobile Broadband Penetration in the Population dedicated data service (cards/modems/keys) – 1 Jan 2010



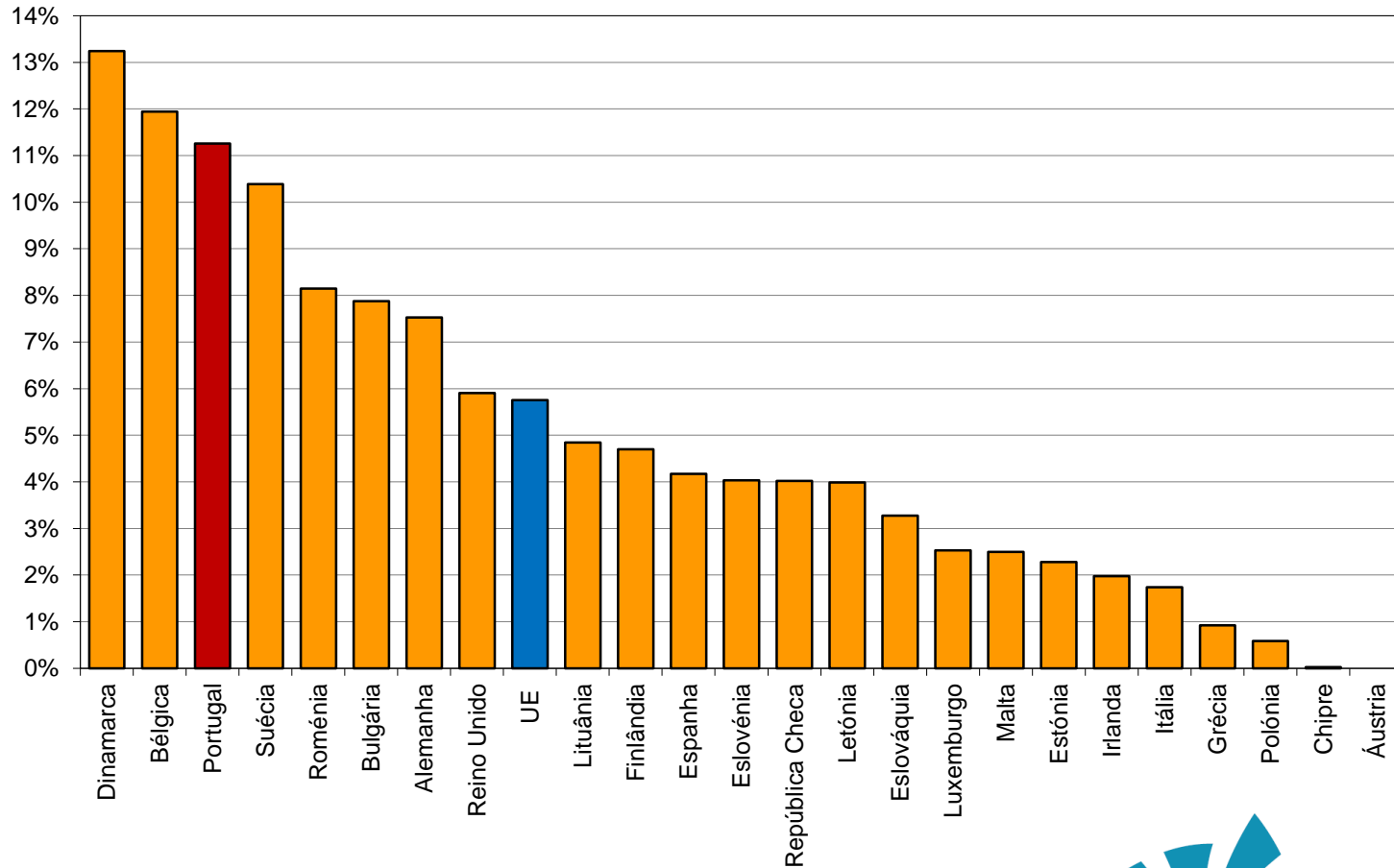
Source: COCOM



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# High Speed Fixed Broadband Penetration ≥ 10 Mbps in the population – 1 Jan 2010



Source: COCOM



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**Commitment to Ambient Assisted Living**  
and strong international partnerships

# Commitment to Approval of AAL Joint Program

## Portuguese Presidency

### **Competitiveness/Research Council** (23 Nov 2007)

Decisive role of Portugal working in close connection with the Commission to circumvent obstacles when approval was deemed impossible

- Insistence of several MS to be able to decide on funding of proposals with their participation irrespective of the ranking after evaluation
- Context of previously unsuccessful example (Clinical Trials) based on art. 169 of the former Treaty



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# International Partnerships

involving research, industry and university  
areas relevant to AAL

**MIT – Portugal Program** (beginning 11 Oct 2006)  
**Engineering Systems:** Mobile medical applications

**Carnegie Mellon – Portugal Program** (beginning 27 Oct 2006)  
**Future Internet Technologies:** Next Generation Networks and trusted high-quality services • Cyber-physical systems for ambient intelligence • Human-centric computing • Language technology • Software engineering for large-scale dependable systems

**UTexas Austin – Portugal Program** (beginning 2 Mar 2007)  
**Advanced Interactive Digital Content**

**Fraunhofer – Portugal Program** (beginning 18 Apr 2007)  
**AICOS – Assistive Information and Communication Solutions Center,**  
building the 1<sup>st</sup> Fraunhofer Institute outside Germany

**Harvard Medical School – Portugal Program** (beginning 21 May 2009)  
**Advanced Web Platform of medical information**  
for citizens, medical students and practitioners

# Major Challenge

for large scale networks applications

## Radically New Business/Costing Model

- 1) **Savings are systemic.** Individuals or the State cannot pay the full bill
- 2) Essential to involve in the business/funding model **main systemic potential gainers**: health insurance companies, national social security systems, national health systems. **Necessary Single Market approach.**
- 3) As in many other large scale network applications, **without radically different business/costing models we will keep delivering interesting pilots but never large scale solutions**



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# 6 General Practical Rules

## for Success in the Knowledge Society

- Develop human capital
- Foster partnerships and knowledge networks
- Aim at outcomes and measure them
- Leave room for bottom up creativity
- Foster radically new business/costing models
- Promote internationalization and cooperate



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