

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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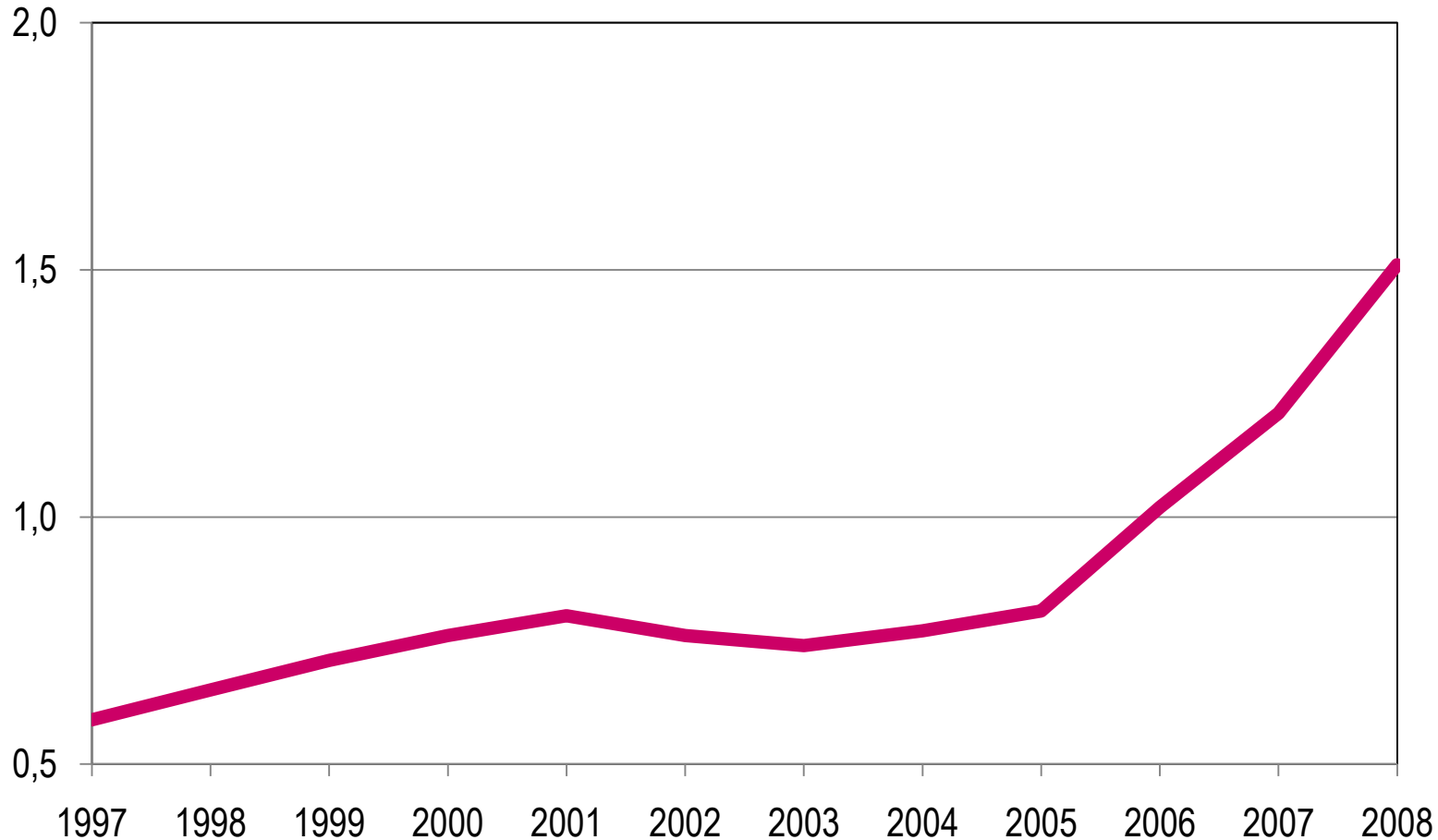


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Context of High S&T Growth in Portugal

Investment in R&D

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



Source: EUROSTAT

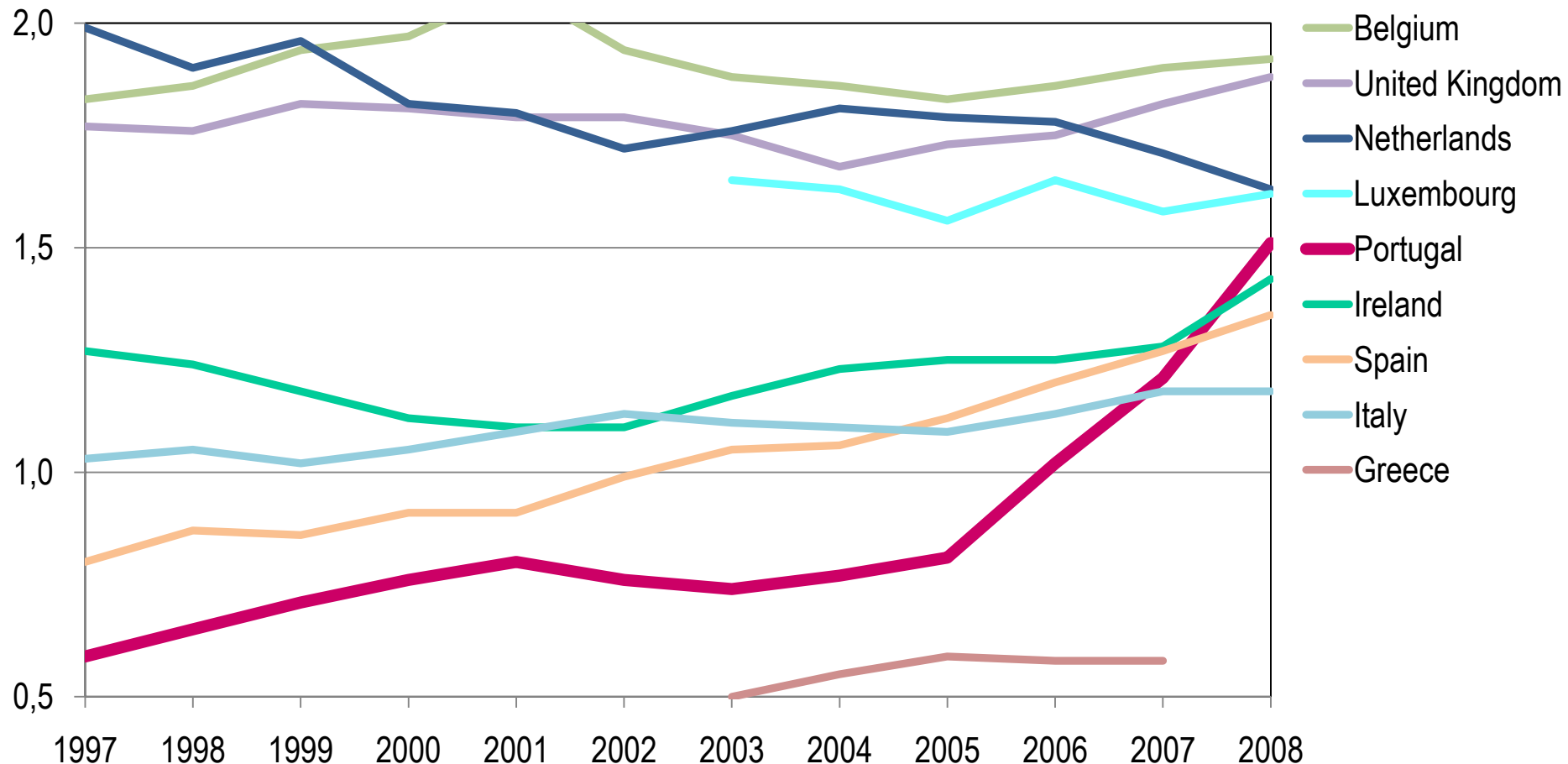


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MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

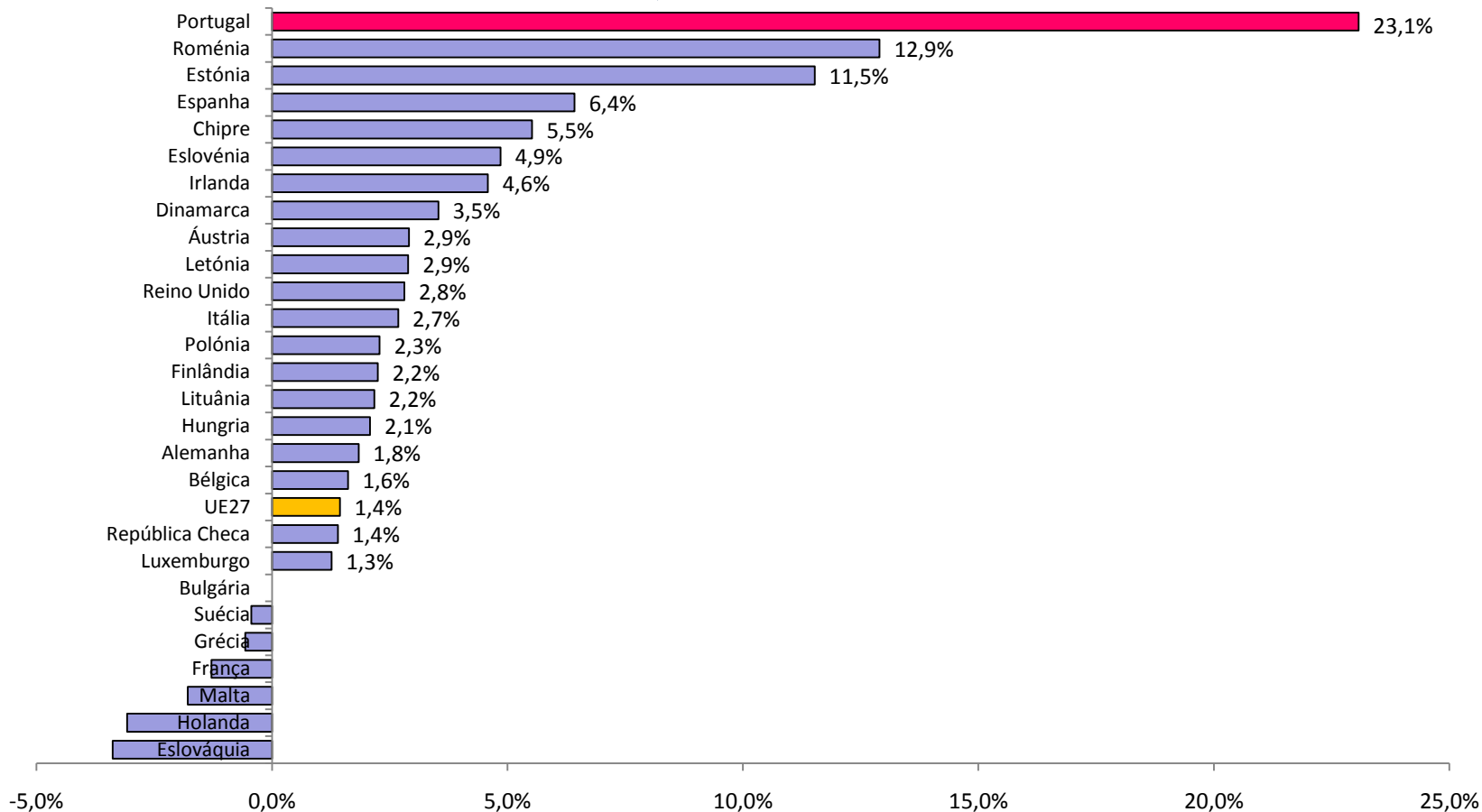
Evolution of R&D Expense in GNP (%), in Portugal

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

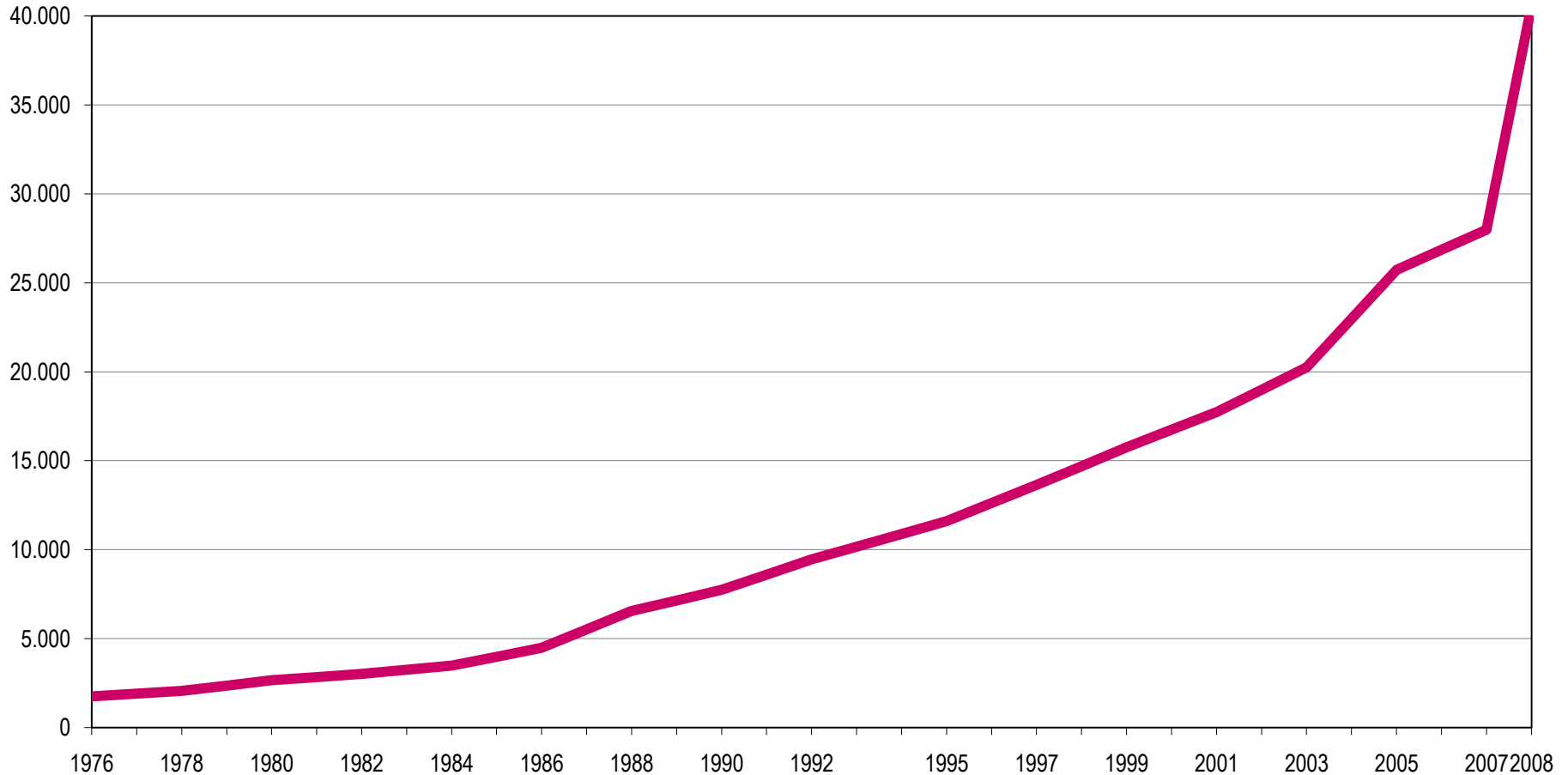


Source: EUROSTAT

Context of High S&T Growth in Portugal

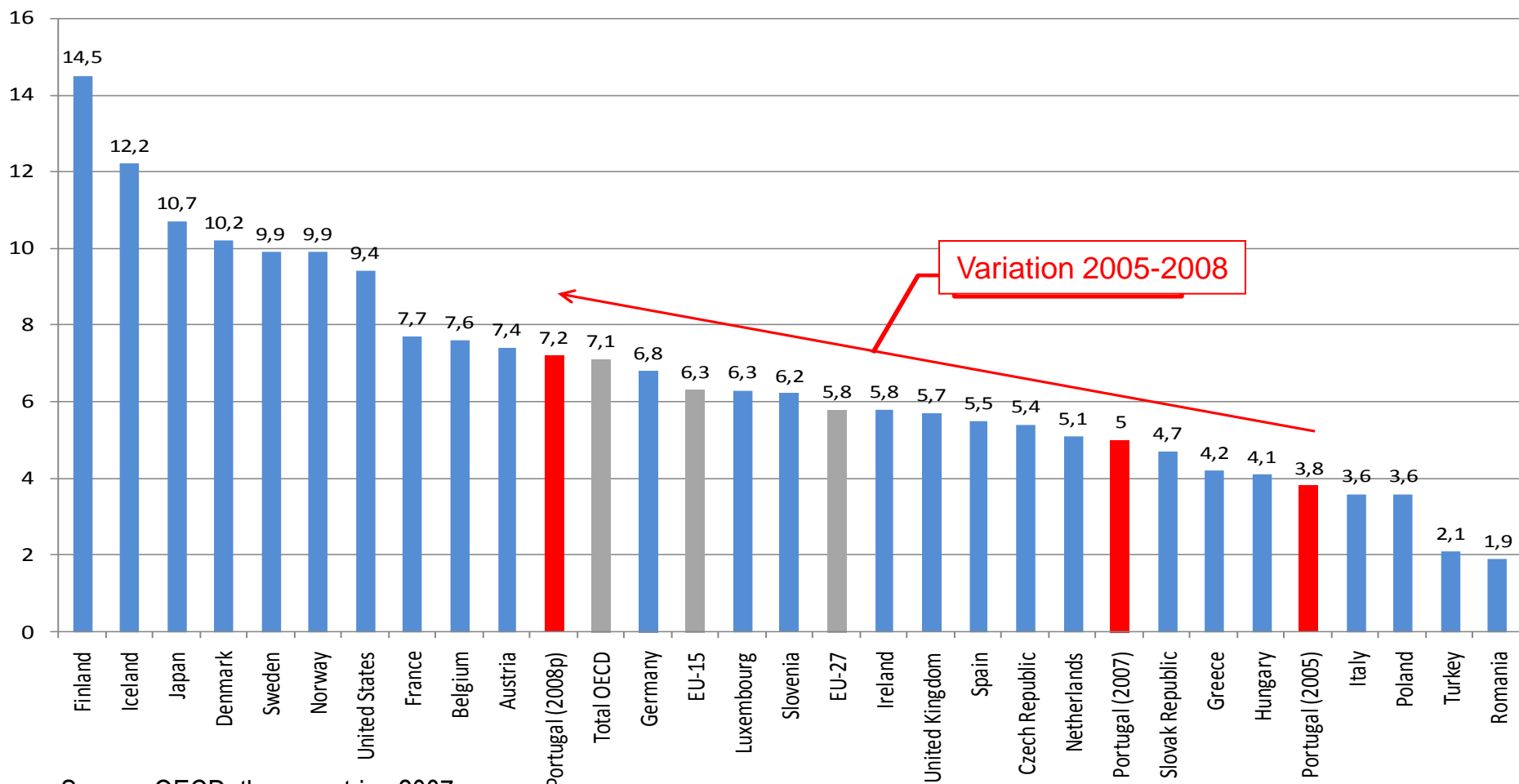
Investment in People

High Growth in Researchers (FTE)



Source: EUROSTAT

High Growth in Researchers (% labor force)



Source: OECD other countries 2007



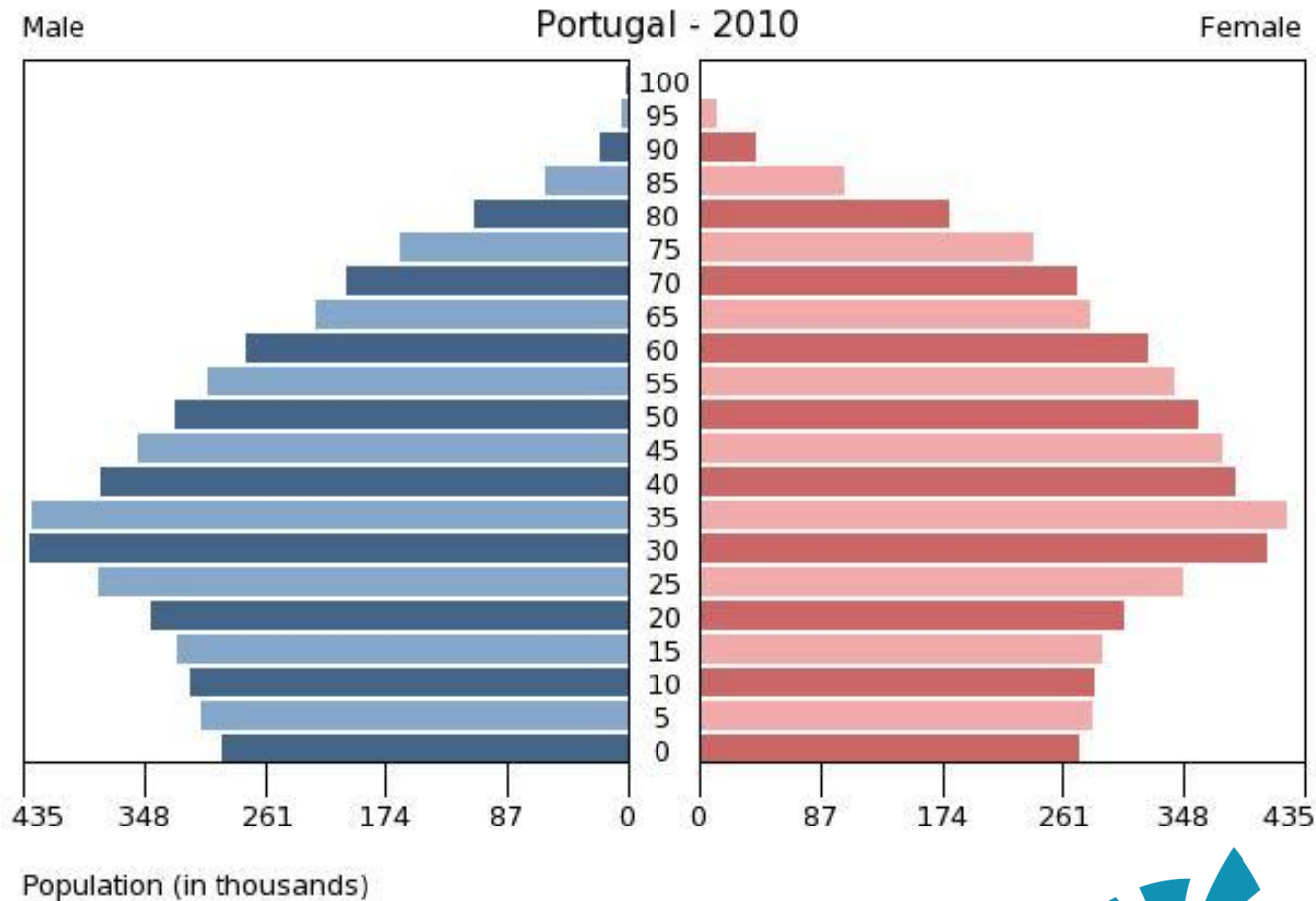
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General Context for AAL in Portugal

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

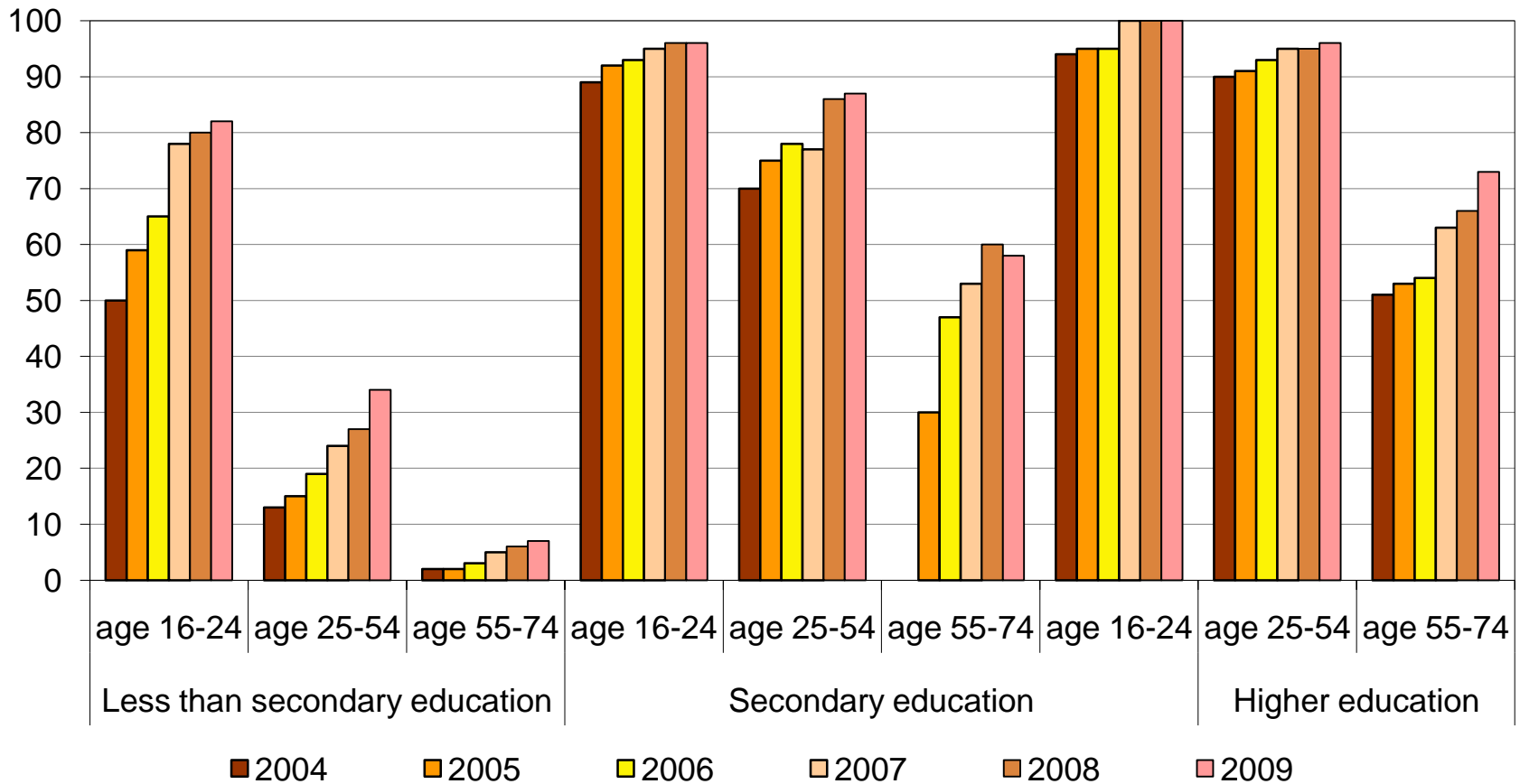
average UE27 2009 = 43%



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Regular Internet Users in Portugal

by age and educational attainment (1Q, 2009)

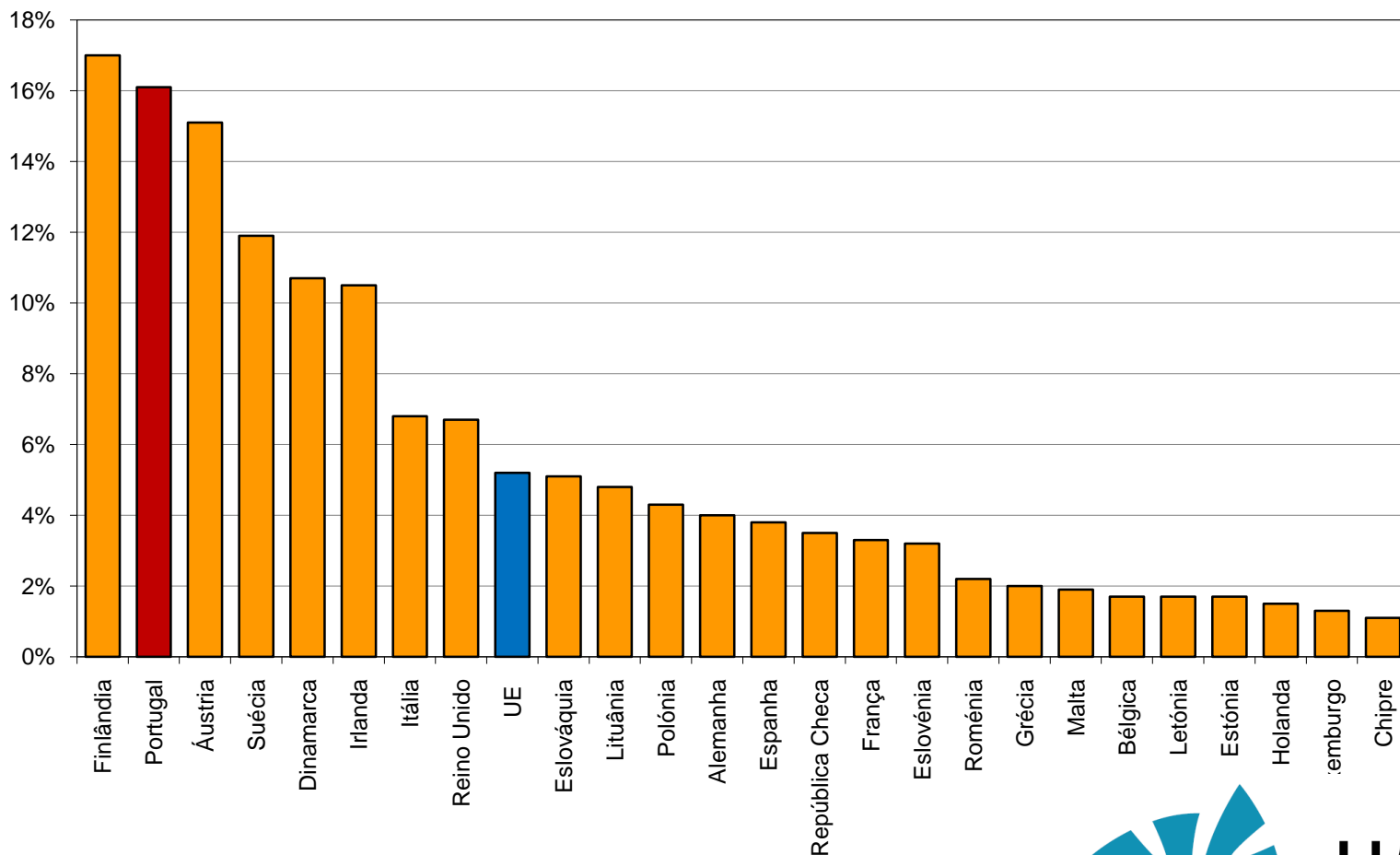


Source: EUROSTAT



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



Source: COCOM

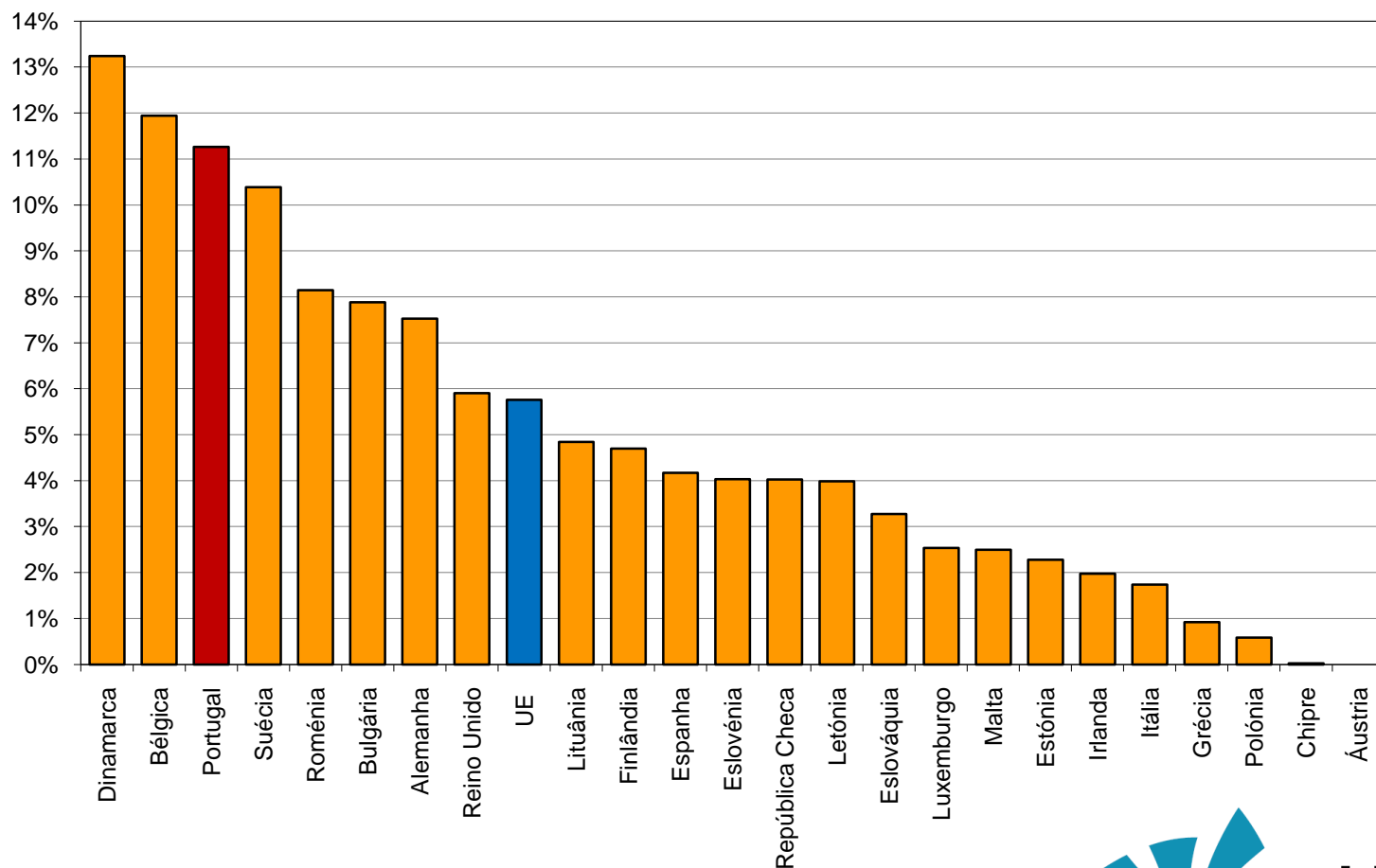


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High Speed Fixed Broadband Penetration

≥ 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 1st 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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