

IC for Portugal and the Lisbon Agenda

A growth strategy based on
knowledge, technology and innovation

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Lisbon Strategy and the Technological Plan**

Key messages

A national
challenge

Strategic
Objectives

Early
Achievements

Performance
Indicators

- The networked knowledge society that we are co-creating presents substantial **challenges** and **opportunities** for Europe and, particularly, for Portugal.
- Portugal is still in the process of **catching up** with the most innovative countries in Europe.
- In order to effectively catch up with those countries, Portugal must improve its workforce **qualifications**, overcome the **scientific and technological gap** and boost **innovation**.
- The Portuguese **Technological Plan** was publicly presented in November 2005 as a **strategic national agenda** in order to attain a new competitive model based on knowledge, technology and innovation.
- The Technological Plan is closely related to the **Lisbon Strategy**, aiming at competitiveness and growth.

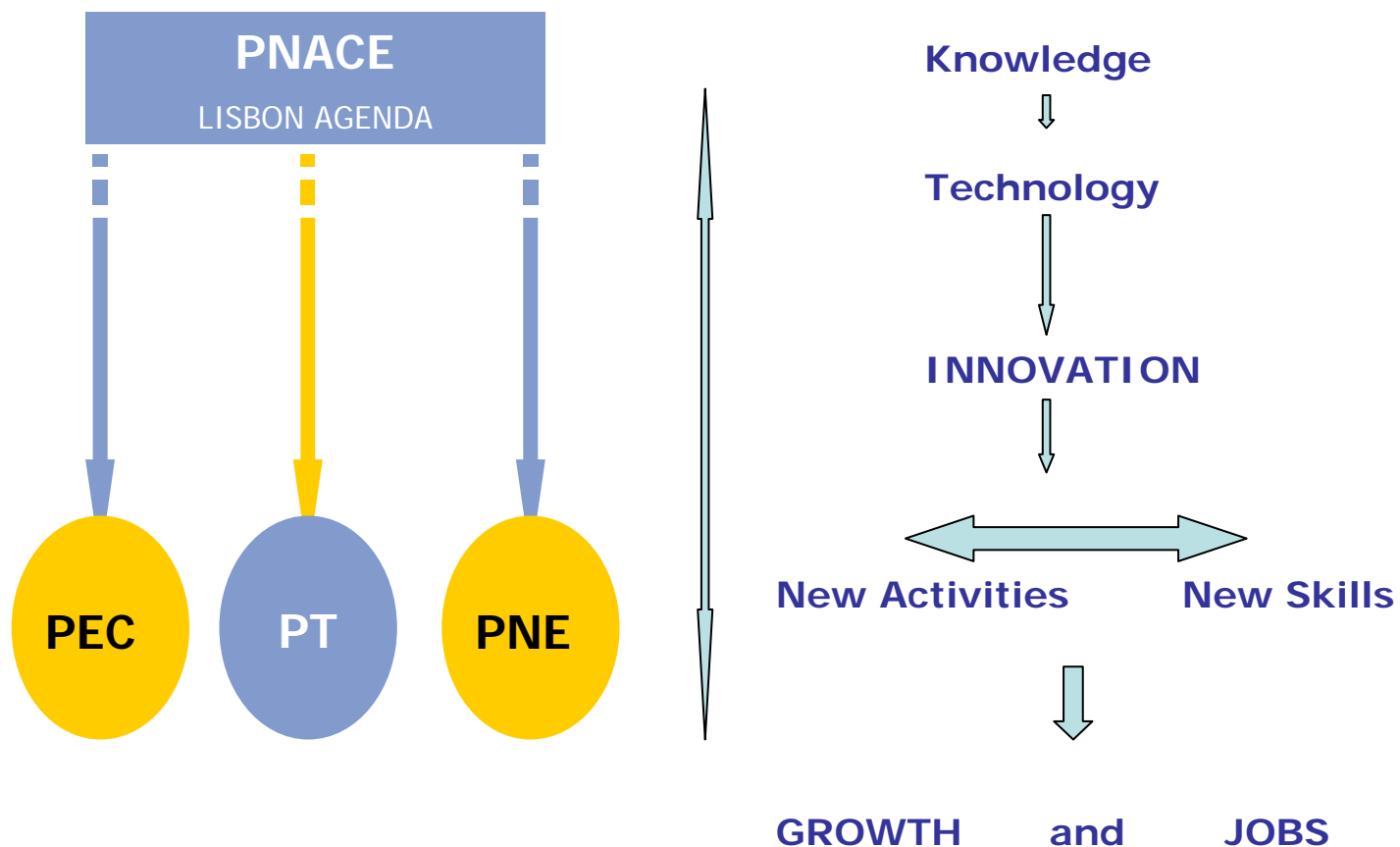
An Agenda to Innovate

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Early Achievements

Performance Indicators



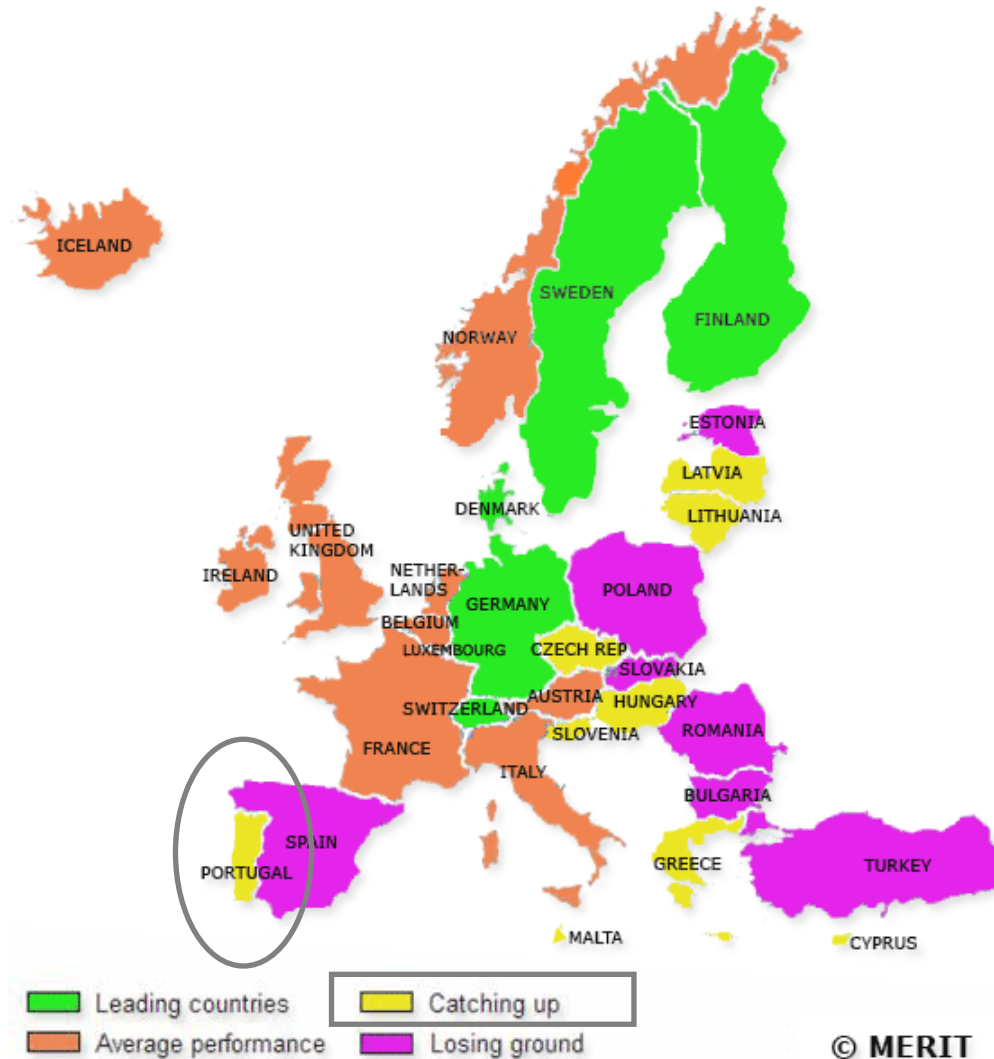
Portugal is catching up in the European Innovation Scoreboard...

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Source: TrendChart – European Innovation Scoreboard 2005

...but some demanding challenges must be addressed

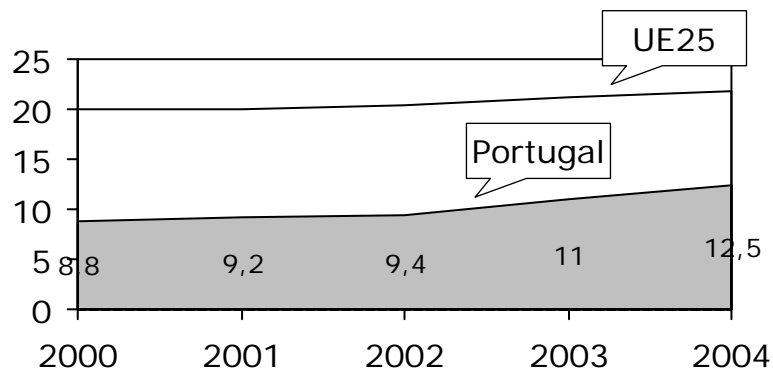
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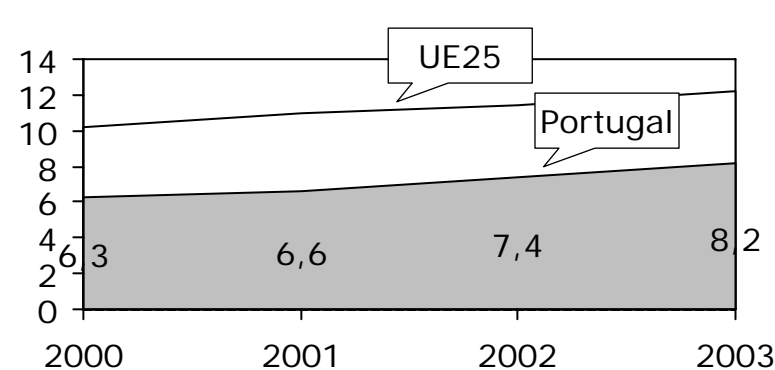
Early Achievements

Performance Indicators

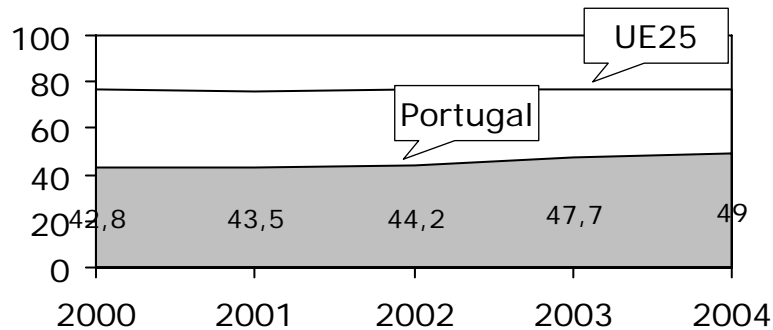
Population having a higher education degree (% of the age group 25-64 years)



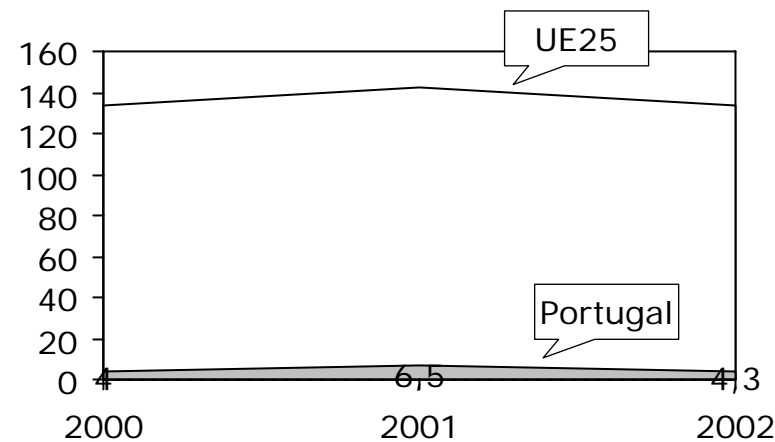
Population having a diploma in science and technology per 1000 inhabitants (20-29 years)



Population having secondary education (% of the age group 20-24 years)

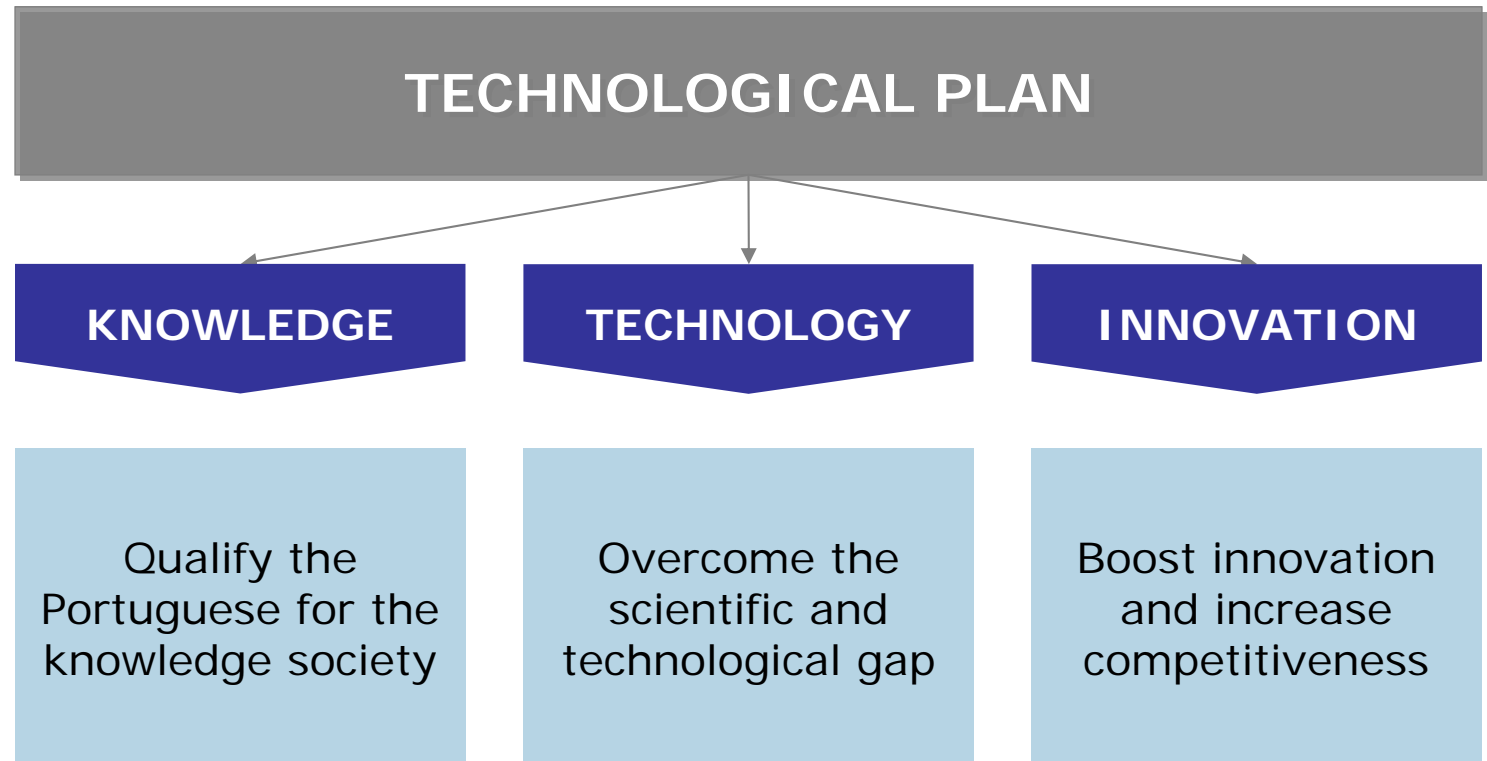


EPO Patents per million inhabitants



The Technological Plan was designed to bridge that gap

To face those challenges, the Technological Plan is grounded on three fundamental axes of action:



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Strategic objectives and goals of each axis of the Technological Plan

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Knowledge

Technology

Innovation

- **To raise the average education levels:**
 - ✓ To raise to 15% the percentage of the working age population having a higher education certificate;
 - ✓ To ensure that 65% of individuals aged between 20-24 years concludes secondary education;
 - ✓ To raise the number of graduates in science and technology to 12 per thousand inhabitants;
 - ✓ To raise to 12,5 the percentage of the population involved in lifelong training actions.
- **To mobilize Portugal for the knowledge society:**
 - ✓ To double the number of regular Internet users, up to 60% of the Portuguese population by 2010;
 - ✓ To triple the number of households with a broadband Internet access by 2010;
 - ✓ To multiply the number of computers in schools, to reach one computer per each 5 students by 2010;
 - ✓ To ensure the on-line availability of all basic public services.

Strategic objectives and goals of each axis of the Technological Plan

	Knowledge	Technology	Innovation
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Strategic Objectives			
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- **To reinforce the scientific and technological capacities:**

- ✓ To increase by 50% the human resources in R&D, and the scientific production internationally cited;
- ✓ To increase to 1500 per year the number of PhDs (completed in Portugal or abroad);
- ✓ To double the public investment in R&D up to 1% of the GDP;
- ✓ To promote the creation of 1000 additional vacancies for R&D within the public administration;

- **To mobilise companies towards innovation, research and development:**

- ✓ To triple the private effort in entrepreneurial R&D, by instituting the necessary stimulus;
- ✓ To triple the number of registered patents.

Strategic objectives and goals of each axis of the Technological Plan

	Knowledge	Technology	Innovation
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- **To promote qualified employment:**
 - ✓ To increase the weight of employment in high and medium technology industries to 4,7% of the total economy;
 - ✓ To increase the usage of computers with Internet connection at work.
- **To change the national industry and services profile:**
 - ✓ To increase the weight of business R&D to 0,8% of the GDP;
 - ✓ To raise the weight of exports from the high technology sectors to 11,4%.
 - ✓ To increase the weight of national exports within the GDP.
- **To promote innovations in companies:**
 - ✓ To increase the number of registered EPO patents e trademarks.

Transversal dimensions of the Technological Plan

In order to attain those strategic objectives, three transversal issues require critical attention:

Knowledge

Technology

Innovation

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Transversal Dimensions

Institutions and Business Environment

Promoting the development of the organisations governing the markets and managing the incentive schemes applicable to economic agents

Networks and Partnerships

Exploring network economies and encouraging the interaction between the various innovation agents

Innovation financing

Creating alternative financing mechanisms as a means to overcome market malfunctions in the fields of knowledge, technology and innovation

Some early achievements of measures from the Technological Plan

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- Full national coverage of broadband Internet access
- Broadband connection to the Internet for all public schools
- English language teaching since primary education
- New Opportunities - lifelong learning

Knowledge

- International partnerships for innovation (MIT, Carnegie Mellon, etc.)
- R&D Institute Portugal-Spain
- State laboratories reform

Technology

Innovation

- “Company in 1 hour” and “Brand in 1 hour”
- Single Citizen’s card
- Single automobile document
- Direct Social Security (online)
- InovJovem and InovContacto programmes

Illustrative goals and performance indicators of the Technological Plan (1/2)

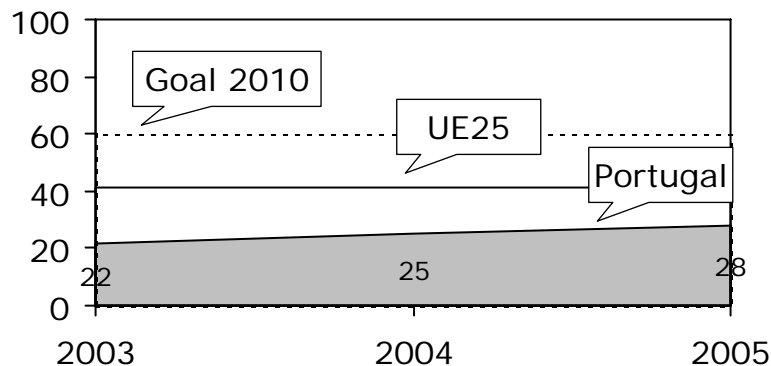
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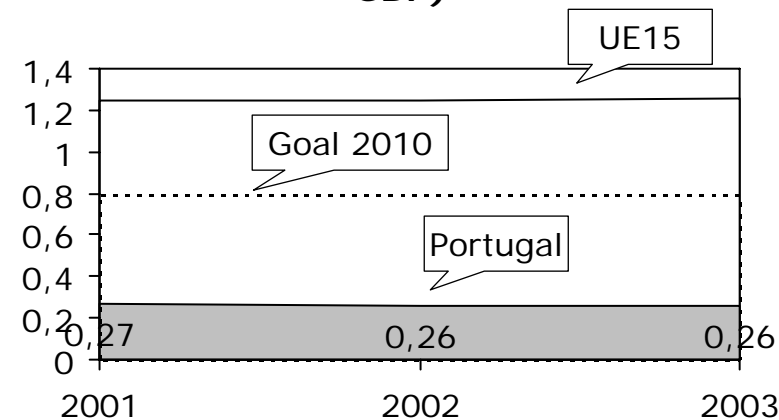
Early Achievements

Performance Indicators

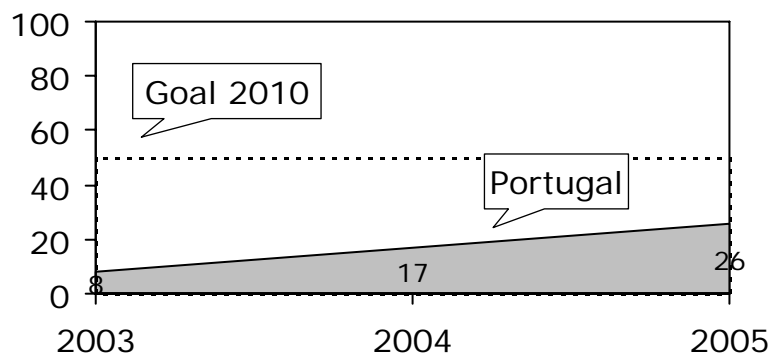
Frequent Internet usage (% of population)



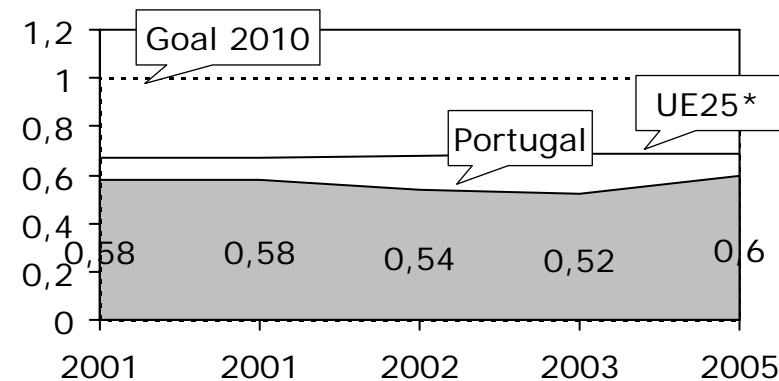
Private expenditure in R&D (% of GDP)



Households with a broadband Internet connection (%)



Public expenditure in R&D (% of GDP)



Illustrative goals and performance indicators of the Technological Plan (2/2)

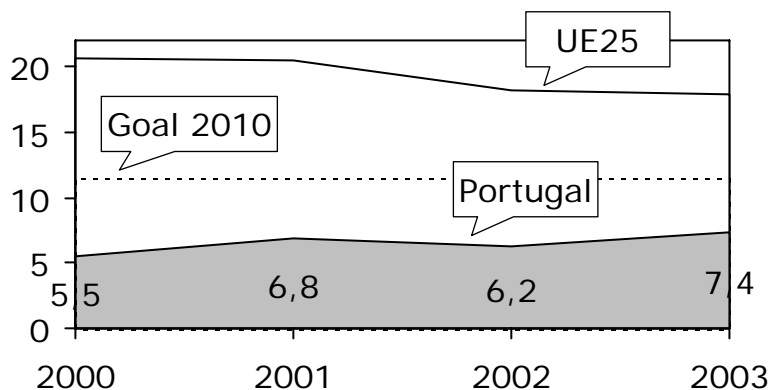
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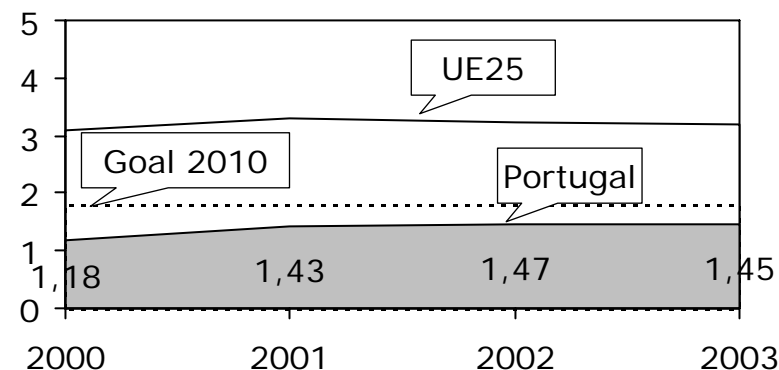
Early Achievements

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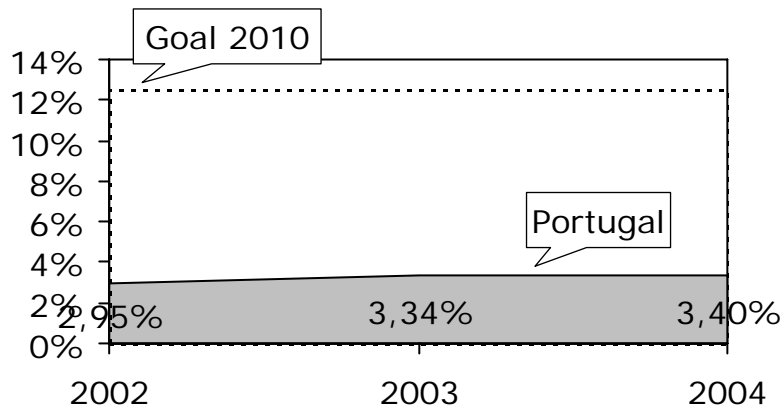
High technology products exports (%)



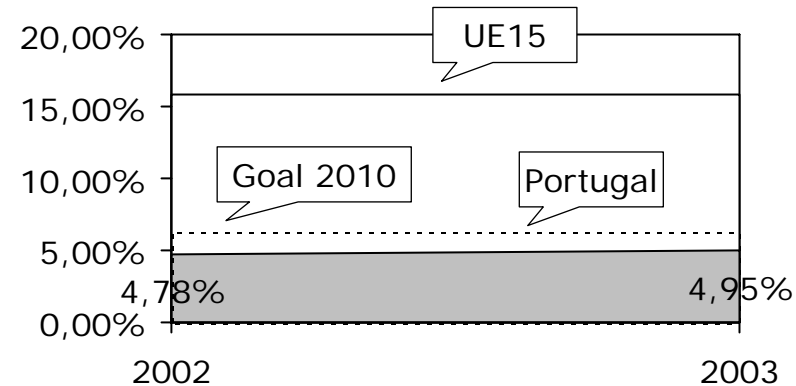
Employment in high tech. services (% of total employment)



New high and mid/high tech. companies (% of new companies)



Added value in mid and high tech. industries



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