

A Portuguese approach to innovation policy:

The Technological Plan

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Cabinet of the National Coordinator of the Lisbon Strategy and the Technological Plan

Preparatory Workshop for Launching the European Network of Living Labs

Helsinki, 4 May 2006

Key messages

A national
challenge

Strategic
Objectives

Policy
Measures

Performance
Indicators

Living Labs in
this context

- 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.
- The **Living Labs** can be contemplated as a way to deepen our engagement with promoting innovation in Portugal.

Portugal is catching up...

A national challenge

Strategic Objectives

Policy Measures

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Living Labs in this context



Source: TrendChart – European Innovation Scoreboard 2005

...but some demanding challenges must be addressed

A national challenge

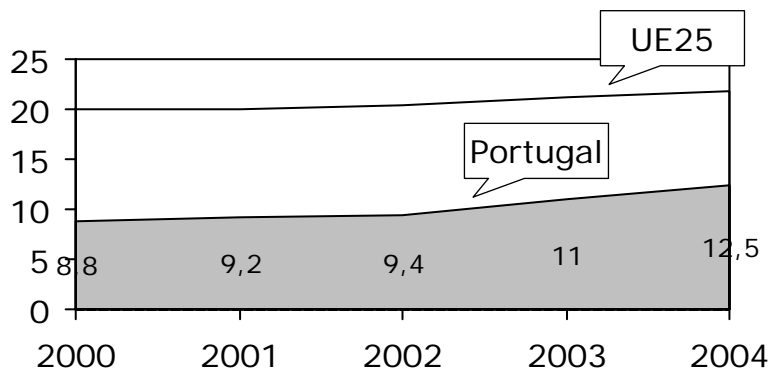
Strategic Objectives

Policy Measures

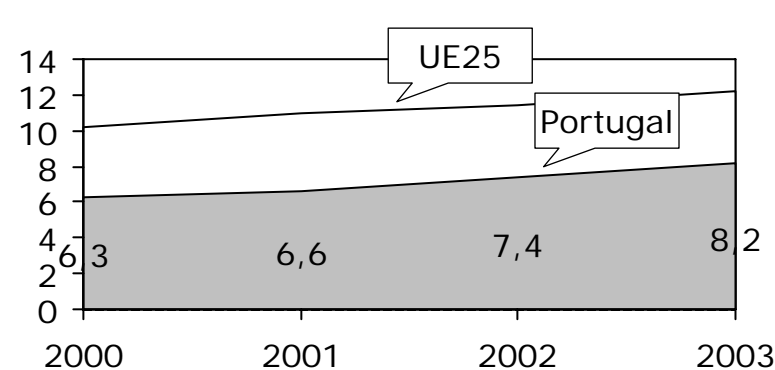
Performance Indicators

Living Labs in this context

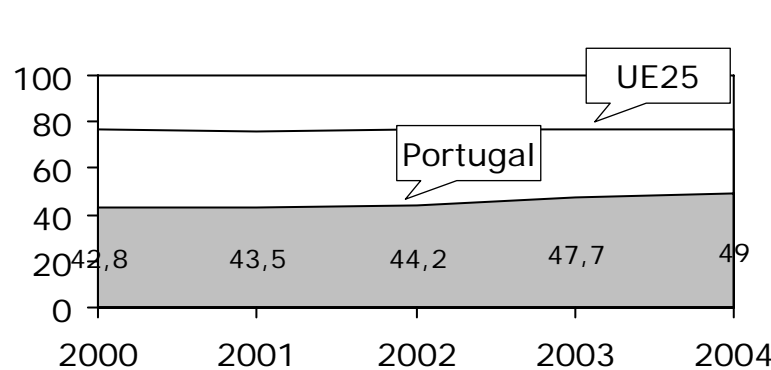
Population having a higher education degree (% of the age group 25-64 years)



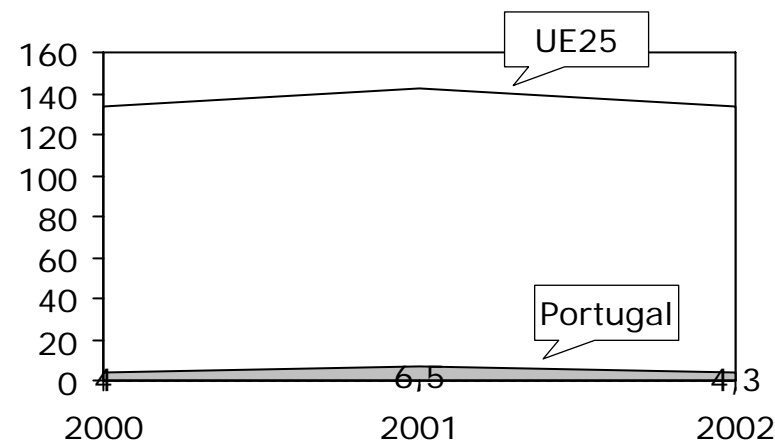
Population having a diploma in science and technology per 1000 inhabitants (20-29 years)



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



EPO Patents per million inhabitants

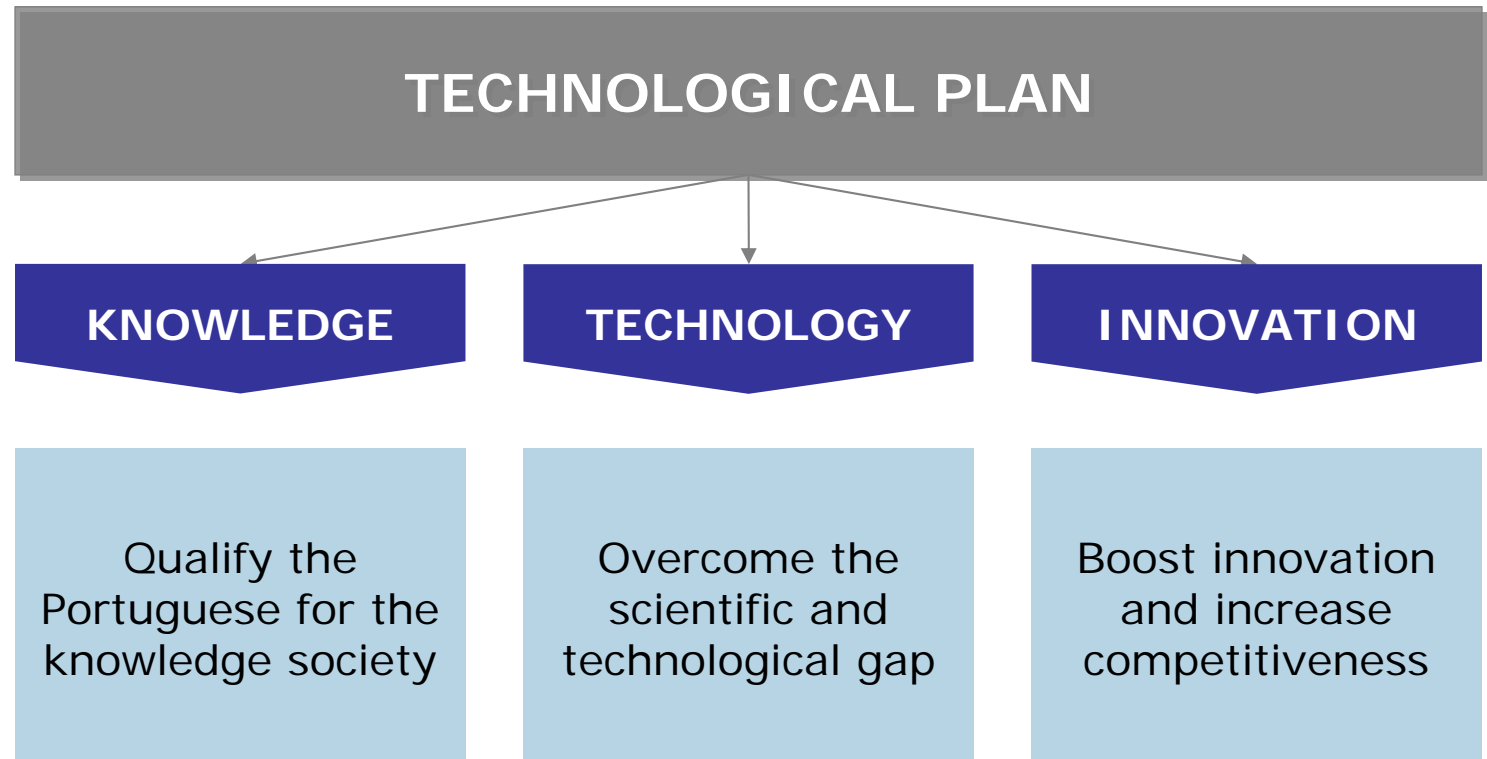


The Technological Plan was designed to bridge that gap

A national challenge

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

Strategic Objectives



Policy Measures

Performance Indicators

Living Labs in this context

Strategic objectives and goals of the Technological Plan

A national challenge

Strategic Objectives

Policy Measures

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Living Labs in this context

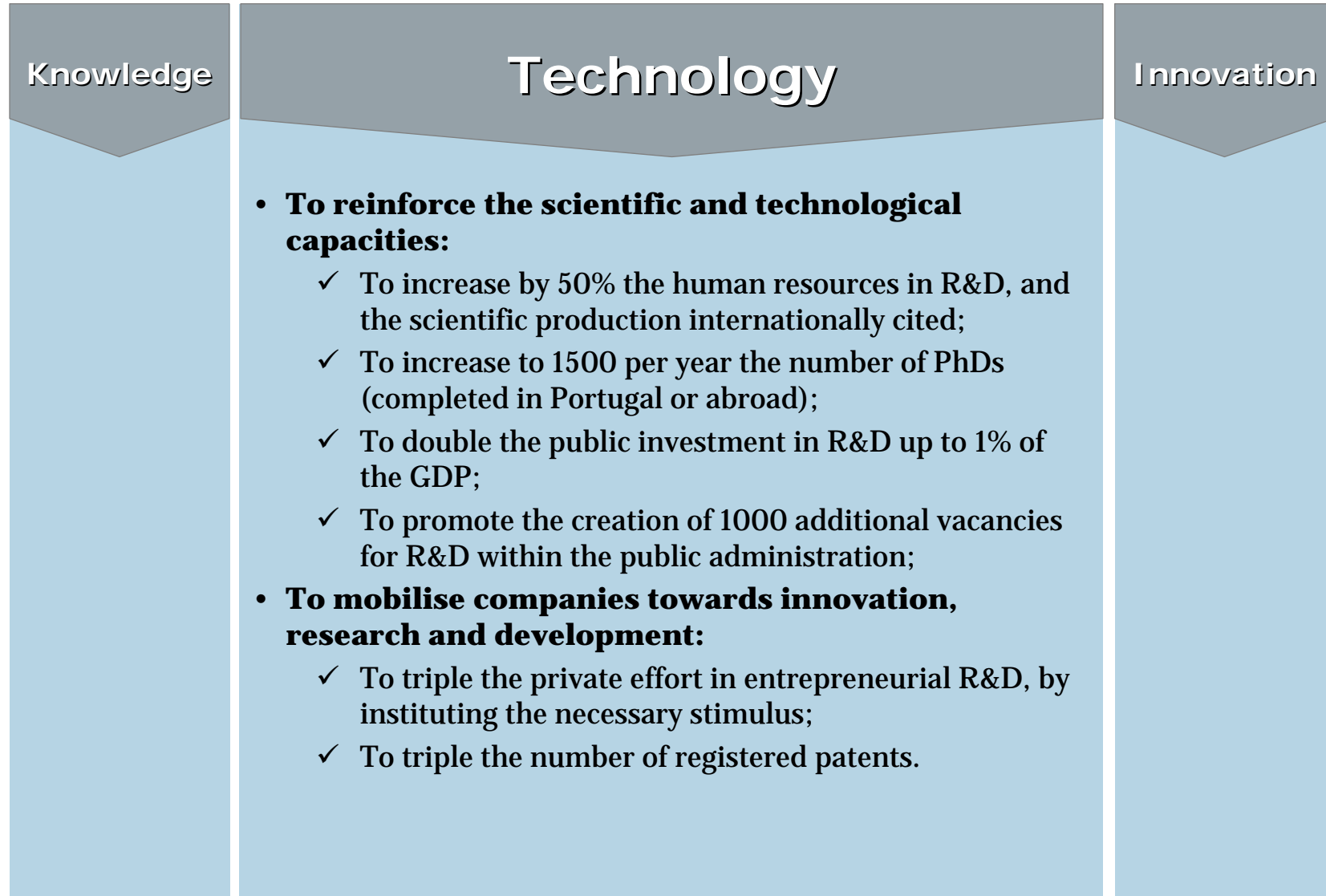
Knowledge

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 the Technological Plan



Strategic objectives and goals of the Technological Plan

Knowledge

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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.

Some early achievements of measures from the Technological Plan

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Living Labs in this context

- 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)

A national challenge

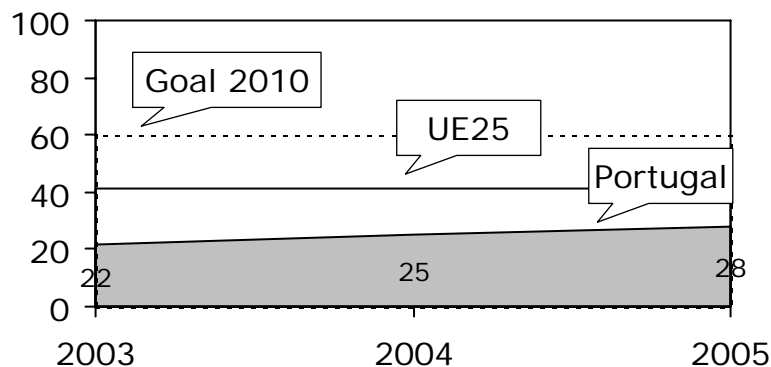
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Policy Measures

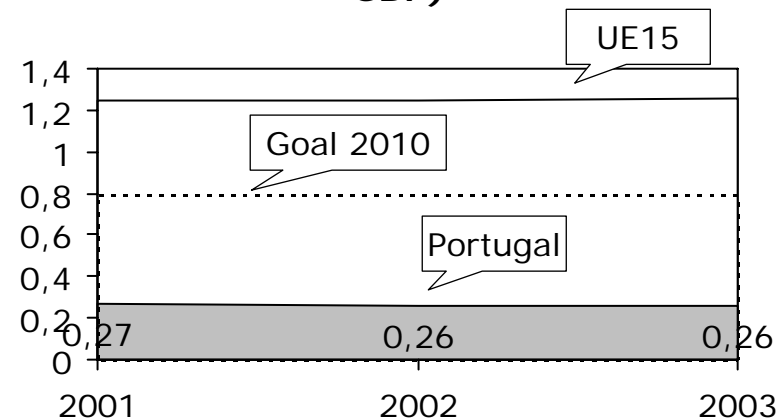
Performance Indicators

Living Labs in this context

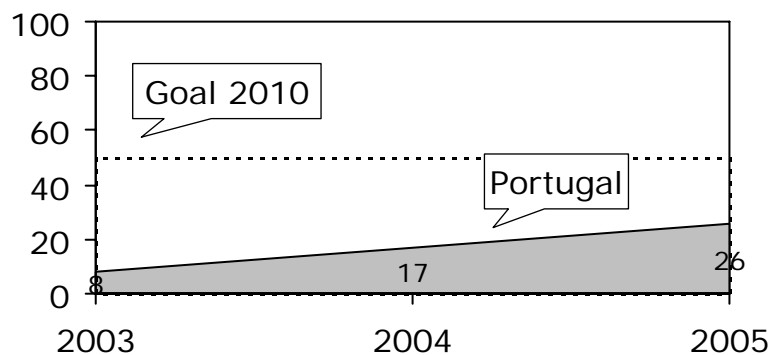
Frequent Internet usage (% of population)



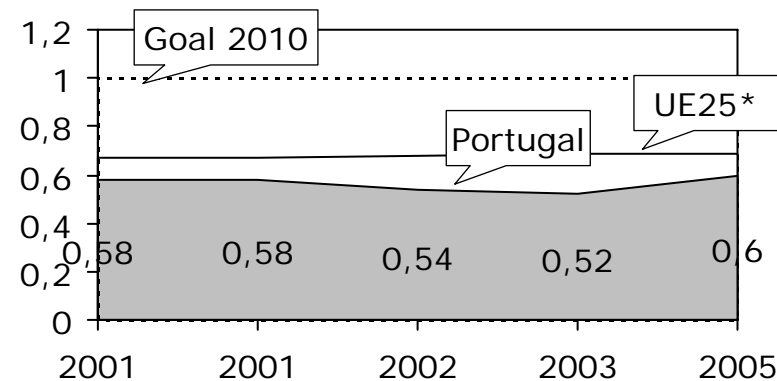
Private expenditure in R&D (% of GDP)



Households with a broadband Internet connection (%)



Public expenditure in R&D (% of GDP)



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

A national challenge

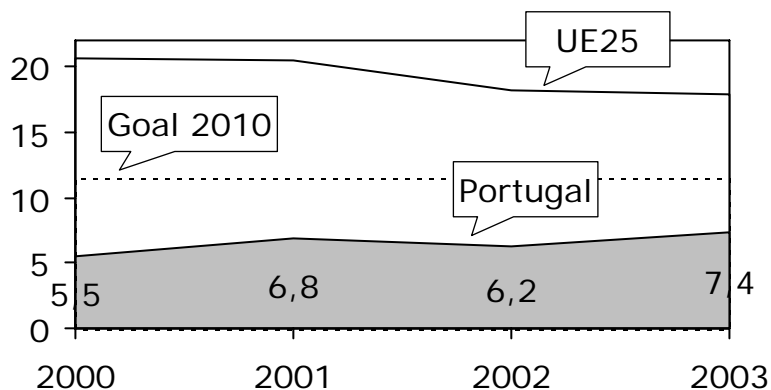
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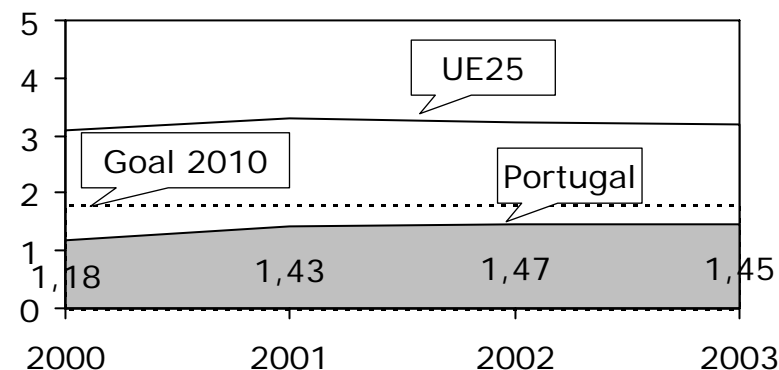
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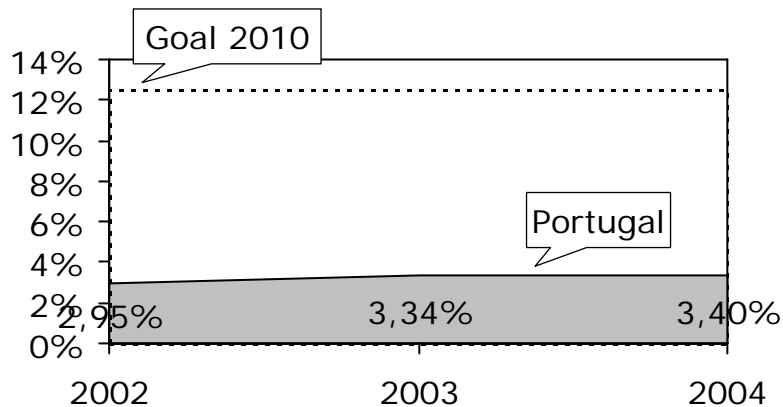
High technology products exports (%)



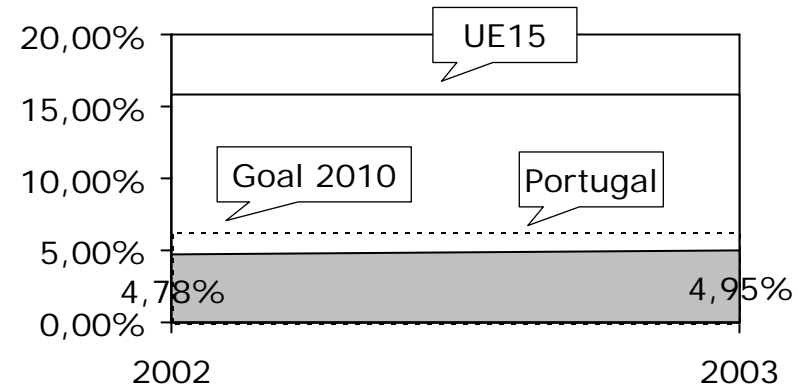
Employment in high tech. services (% of total employment)



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



Added value in mid and high tech. industries



How can the Living Labs approach be taken into account?

A national challenge

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Living Labs in this context

- In the context of the Technological Plan, the Living Labs can be an interesting way to deepen our engagement with promoting innovation in Portugal.
- The coordination team of the Technological Plan has been following with interest the Portuguese Living Labs experiences (Madeira and, now, Minho).
- As a research methodology, the Living Labs approach may be consistent with the policy measures that we are designing and implementing to foster an innovation-friendly market.
- Establishing an European Network of Living Labs increases the potential value of this approach.

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