INNOVATION PILLARS

9. TECHNOLOGICAL READINESS

10. BUSINESS SOPHISTICATION

11. INNOVATION
INNOVATION PILLARS

9. TECHNOLOGICAL READINESS

10. BUSINESS SOPHISTICATION

11. INNOVATION
INNOVATION PILLARS

9. TECHNOLOGICAL READINESS

9.1. Households with access to broadband - 2009
9.2. Individuals who ordered goods or services over the Internet for private use - 2009
9.3. Households with access to Internet - 2009
9.4. Enterprises using computers - 2009
9.5. Enterprises having access to Internet - 2009
9.6. Enterprises having a website or a homepage - 2009
9.7. Enterprises using Intranet - 2009
9.8. Enterprises using internal networks (e.g. LAN) - 2009
9.9. Persons employed by enterprises which use Extranet - 2009
9.10. Persons employed by enterprises which have access to the Internet - 2009
Households with access to broadband - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of total households with access to broadband
- Source: Eurostat Regional Information Society Statistics and JRC calculations
Individuals who ordered goods or services over the Internet for private use - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of individuals who ordered goods or services over the internet for private use
- Source: Eurostat Regional Information Society Statistics and JRC calculations

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Households with access to Internet - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of total households with internet access
- Source: Eurostat Regional Information Society Statistics and JRC calculations

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Enterprises using computers - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of enterprises using computers.
- Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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Enterprises having access to Internet - 2009

Index: values range from negative to positive measured in standard deviations

<table>
<thead>
<tr>
<th>Category</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; -1.5</td>
<td>Red</td>
</tr>
<tr>
<td>-1.5 - -1</td>
<td>Medium Blue</td>
</tr>
<tr>
<td>-1 - -0.5</td>
<td>Dark Blue</td>
</tr>
<tr>
<td>-0.5 - 0</td>
<td>Light Blue</td>
</tr>
<tr>
<td>0 - 0.5</td>
<td>Orange</td>
</tr>
<tr>
<td>0.5 - 1</td>
<td>Green</td>
</tr>
<tr>
<td>1 - 1.5</td>
<td>Cyan</td>
</tr>
<tr>
<td>&gt; 1.5</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

EU-27 average = 0.
% of enterprises having access to internet in the reference year.
Source: Community Survey on ICT usage and e-Commerce and JRC calculations*

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Enterprises having a website or a homepage - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of enterprises having a website or a homepage.
- Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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Enterprises using Intranet - 2009

Index: values range from negative to positive measured in standard deviations

- < -1.5
- -1.5 - -1
- -1 - -0.5
- -0.5 - 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5

EU-27 average = 0.
% of enterprises using Intranet.
Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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Enterprises using internal networks (e.g. LAN) - 2009

Index: values range from negative to positive measured in standard deviations

- < -1.5
- -1.5 - -1
- -1 - -0.5
- -0.5 - 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5

EU-27 average = 0.
% of total enterprises using internal networks (e.g. LAN).
Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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Persons employed by enterprises which use Extranet - 2009

Index: values range from negative to positive measured in standard deviations

-1.5 - 0.5

-0.5 - 1

-1 - 1.5

EU-27 average = 0.

% of persons employed by enterprises using Extranet

Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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Persons employed by enterprises which have access to the Internet - 2009

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of persons employed by enterprise having access to the Internet
- Source: Community Survey on ICT usage and e-Commerce and JRC calculations

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10. BUSINESS SOPHISTICATION

10.1. Employment in the "Financial Intermediation, real estate, renting and business activities" NACE sectors (J-K) - 2007

10.2. Gross Value Added (GVA) at basic prices for NACE sectors J-K - 2007

10.3. FDI Intensity - average 2005-2007

10.4. Aggregate Indicator for strength of regional clusters - 2006
Employment in the "Financial Intermediation, real estate, renting and business activities" NACE sectors (J-K) - 2007

Index: values range from negative to positive measured in standard deviations

- < -1.5
- -1.5 - -1
- -1 - -0.5
- -0.5 - 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5

EU-27 average = 0.

Employment in the "Financial intermediation, real estate, renting and business activities" sector (J_K) as % of total employment

Source: Eurostat Regional Statistics and JRC calculations
Gross Value Added (GVA) at basic prices for NACE sectors J-K - 2007

Index: values range from negative to positive measured in standard deviations

- < -1.5
- -1.5 - -1
- -1 - -0.5
- -0.5 - 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5

EU-27 average = 0.
GVA in the “Financial intermediation, real estate, renting and business activities” sector (J_K) as % of total GVA
Source: Eurostat Regional Statistics and JRC calculations

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FDI Intensity - average 2005-2007

Index: values range from negative to positive measured in standard deviations

- < -1.5
- -1.5 - -1
- -1 - -0.5
- -0.5 - 0
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5

EU-27 average = 0.
Number of new foreign firms per million inhabitants
Source: ISLA - Bocconi and JRC calculations

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Aggregate Indicator for strength of regional clusters - 2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- Regional clusters based on three criteria – size, focus and specialization.

Source: European Cluster Observatory and JRC calculations
11. INNOVATION

11.1. Innovation patent applications - average 2005-2006
11.2. Total patent applications - average 2005-2006
11.3. Core Creativity Class employment - average 2006-2007
11.4. Knowledge workers- 2006
11.5. Scientific publications - average 2005-2006
11.6. Total intramural R&D expenditure - 2007
11.7. Human Resources in Science and Technology (HRST) - 2008
11.8. Employment in technology and knowledge-intensive services - 2008
11.10. ICT Inventors - average 2005-2006
Innovation patent applications - average 2005-2006

Index: values range from negative to positive measured in standard deviations

EU-27 average = 0.
Number of applications per million inhabitants.
Source: OECD REGPAT and JRC calculations
Total patent applications - average 2005-2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- Number of applications per million inhabitants
- Source: OECD REGPAT and JRC calculations
Core Creativity Class employment - average 2006-2007

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- % of population aged 15-64
- Source: Eurostat, LFS and JRC calculations
Knowledge workers - 2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- Knowledge workers as % out of total employment
- Source: Eurostat, LFS and JRC calculations

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Scientific publications - average 2005-2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0
- Publications per million inhabitants
- Source: Thomson Reuters Web of Science & CWTS database (Leiden University) and JRC calculations.
Total intramural R&D expenditure - 2007

Index: values range from negative to positive measured in standard deviations

- **< -1.5**
- **-1.5 - -1**
- **-1 - -0.5**
- **-0.5 - 0**
- **0 - 0.5**
- **0.5 - 1**
- **1 - 1.5**
- **> 1.5**

EU-27 average = 0.
Total R&D expenditure as % of GDP
Source: Eurostat, Regional Science and Technology Statistics and JRC calculations

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Human Resources in Science and Technology (HRST) - 2008

Index: values range from negative to positive measured in standard deviations

EU-27 average = 0. Percentage of labor force
Source: Eurostat, Regional Science and Technology Statistics and JRC calculations

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Employment in technology and knowledge-intensive services - 2008

Index: values range from negative to positive measured in standard deviations

-0.5 - 0  0 - 0.5  0.5 - 1  1 - 1.5  > 1.5

EU-27 average = 0.
Percentage of total employment.
Source: Eurostat, Regional Science and Technology Statistics and JRC calculations

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High-tech inventors - average 2005-2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- Authors of High Technology EPO patent applications, number of inventors per million inhabitants.
- Source: OECD REGPAT and JRC calculations

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ICT Inventors - average 2005-2006

Index: values range from negative to positive measured in standard deviations

- Red: < -1.5
- Dark red: -1.5 - -1
- Medium red: -1 - -0.5
- Light red: -0.5 - 0
- Blue: 0 - 0.5
- Medium blue: 0.5 - 1
- Dark blue: 1 - 1.5
- Purple: > 1.5

EU-27 average = 0.
Authors of ICT EPO patent applications, number of inventors per million inhabitants
Source: OECD REGPAT and JRC calculations
Biotechnology inventors - average 2005-2006

Index: values range from negative to positive measured in standard deviations

- EU-27 average = 0.
- Authors of Biotechnology EPO patent applications, number of inventors per million inhabitants
- Source: OECD REGPAT and JRC calculations.