

# Table of Contents

List of tables, figures and maps	V
Overview and executive summary	XI
Statistical symbols and abbreviations	XVI
<b>Part 1 - Investing in R&amp;D</b>	<b>1</b>
<b>Chapter 1 - Government budget appropriations or outlays on R&amp;D — GBAORD</b>	<b>3</b>
1.1 Introduction	5
1.2 Total GBAORD	6
1.3 GBAORD by socio-economic objective	11
<b>Chapter 2 - R&amp;D expenditure</b>	<b>17</b>
2.1 Introduction	19
2.2 R&D at national level	22
2.3 R&D at regional level	31
<b>Part 2 - Monitoring the knowledge workers</b>	<b>39</b>
<b>Chapter 3 - R&amp;D personnel</b>	<b>41</b>
3.1 Introduction	43
3.2 R&D personnel at national level	45
3.3 R&D personnel at regional level	58
<b>Chapter 4 - Human resources in science and technology</b>	<b>63</b>
4.1 Introduction	65
4.2 Education inflows	68
4.3 Stocks of human resources in science and technology	77
4.4 Mobility	88
4.5 International mobility	90
<b>Part 3 - Productivity and competitiveness</b>	<b>93</b>
<b>Chapter 5 - Innovation</b>	<b>95</b>
5.1 Introduction	97
5.2 European Innovation Scoreboard 2007	100
5.3 Outlook: CIS 2006 and CIS 2008	120

<b>Chapter 6 - Patents</b>	<b>121</b>
6.1 Introduction	123
6.2 Triadic patent families	125
6.3 Total patent applications to the EPO and patents granted by the USPTO	126
6.4 Patent applications in technological fields	135
6.5 Performance at regional level	140
<b>Chapter 7 - High-tech industries and knowledge-based services</b>	<b>149</b>
7.1 Introduction	151
7.2 Enterprises in high-tech industries and knowledge-intensive services	152
7.3 Venture capital investments	154
7.4 Trade in high-tech products	156
7.5 Employment in high-tech industries and in knowledge-intensive services	160
<b>Chapter 8 - 2007 EU industrial R&amp;D investment scoreboard</b>	<b>169</b>
8.1 Introduction	171
8.2 Key indicators	174
8.3 Other key findings	180
<b>Methodology</b>	<b>181</b>
<b>M1 - General information</b>	<b>183</b>
<b>M2 - Methodological notes by domain</b>	<b>189</b>