

## TABLE OF CONTENTS

<b>Highlights</b> .....	7
A.1. Towards a knowledge-based economy .....	14
A.2. Trends in domestic R&D expenditure .....	16
A.3. R&D financing and performance.....	18
A.4.1. Business R&D.....	20
A.4.2. Business R&D by industry.....	22
A.4.3. R&D in selected ICT industries and ICT patents.....	24
A.4.4. Business R&D by size classes of firms.....	26
A.4.5. Collaborative efforts between business and the public sector .....	28
A.5. R&D performed by the higher education and government sectors .....	30
A.6.1. Public funding of biotechnology R&D and biotechnology patents .....	32
A.6.2. Environmental R&D in the government budget.....	34
A.6.3. Health-related R&D .....	36
A.6.4. Basic research .....	38
A.6.5. Defence R&D in government budgets.....	40
A.6.6. Tax treatment of R&D.....	42
A.7. Venture capital .....	44
A.8. Human resources.....	46
A.9.1. Human resources in science and technology .....	48
A.9.2. Trends in researchers .....	50
A.10.1. International mobility of human capital .....	52
A.10.2. International mobility of students .....	54
A.11. Innovation expenditure and output.....	56
A.12.1. Patent applications to the European Patent Office (EPO) .....	58
A.12.2. Patent families .....	60
A.13. Scientific publications .....	62
B.1. Investment in information and communication technologies (ICTs).....	64
B.2. Information and communication technology (ICT) expenditures .....	66
B.3. Occupations and skills in the information economy.....	68
B.4.1. Infrastructure for the information economy .....	70
B.4.2. Internet infrastructure .....	72
B.5.1. Internet use and hours spent on line .....	74
B.5.2. Access to and use of the Internet by households and individuals.....	76
B.5.3. Internet access by enterprise size and industry .....	78
B.5.4. Internet and electronic commerce transactions .....	80
B.6. The price of Internet access and use .....	82
B.7.1. Size and growth of the ICT sector.....	84
B.7.2. The contribution of the ICT sector to employment growth.....	86
B.8. The contribution of the ICT sector to international trade .....	88
B.9. Cross-border mergers, acquisitions and alliances in the ICT sector .....	90

C.1. Global integration of economic activity.....	92
C.2.1. International trade.....	94
C.2.2. Exposure to international trade competition by industry.....	96
C.3.1. Foreign direct investment flows .....	98
C.3.2. Cross-border mergers and acquisitions.....	100
C.4.1. Activity of foreign affiliates in manufacturing.....	102
C.4.2. Activity of foreign affiliates in services.....	104
C.5.1. Internationalisation of industrial R&D .....	106
C.5.2. International strategic alliances between firms.....	108
C.5.3. Cross-border ownership of inventions.....	110
C.5.4. International co-operation in science and technology .....	112
C.5.5. Technology balance of payments.....	114
D.1. Differences in income and productivity in the OECD.....	116
D.2. Income and productivity levels in the OECD, 1950-99 .....	118
D.3. Recent changes in productivity growth, 1990-99 .....	120
D.4. Labour productivity by industry .....	122
D.5. Technology- and knowledge-intensive industries .....	124
D.6. The structure of OECD economies .....	126
D.7.1. International trade by technology intensity.....	128
D.7.2. International trade in high- and medium-high-technology industries .....	130
D.7.3. Comparative advantage by technology intensity .....	132
Annex I. Classification of manufacturing industries based on technology .....	137
Annex II. Main OECD Databases Used Databases maintained by the Directorate for Science, Technology and Industry (DSTI) .....	141
Statistical Annex.....	145