



TABLE OF CONTENTS

Preface.....	7
A. Basic indicators of research and development	9
A.1.1 Number of R&D employees (FTE) (persons per 1000 labours).....	10 10
A.1.2 Number of research workers (FTE) (persons per 1000 labours).....	12 12
A.1.3 Share of the Science&Engineering graduates in the tertiary level of education out of inhabitants of the 20-29 years age category (in per cent)	14
A.1.4 Share of inhabitants with completed tertiary level of education in the total number of inhabitants of the 25 – 64 years age categories (in per cent).....	16
A.2.1 Total R&D expenditures (% of GDP).....	18
A.2.2 Total R&D expenditures (in USD per capita; current prices, PPP).....	20
A.2.3 Public R&D expenditures (in per cent of GDP)	22
A.2.4 Share of public funds in total R&D expenditures (in per cent)	24
A.2.5 Share of private funds in total R&D expenditures (in per cent)	26
A.2.6 Share of foreign funds in total R&D expenditures (in per cent)	28
A.3.1 Share of R&D funds used in private sector in the total R&D expenditures (in per cent)	30
A.3.2 Share of R&D funds used at universities in the total R&D expenditures (in per cent)	32
A.3.3 Share of R&D funds used in the public (government) sector in total R&D expenditures (in per cent)	34
B. Analysis of R&D support from public funds	37
B.1 Trend of state R&D expenditures (CZK mil and % of GDP)	38
B.2 Trend of state subsidies extended to research and development by selected providers (CZK million)	40
B.3 Trend of institutional support extended to research by selected providers (CZK million)	42
B.4 Trend of targeted support extended to research and development by selected providers (CZK million)	43
B.5 R&D expenditures – shares of targeted and institutional support in the overall state R&D expenditures (%)	44
C. Analysis of R&D Information System data (R&D IS)	45
C.1 Number of R&D projects classified by sector between 2001 and 2004	47
C.2 R&D projects classified by sector between 2001 and 2004 pursuant to the amount of funds	48
C.3 Number of R&D projects pursuant to the amount of targeted support between 2001 and 2004.....	50
C.4 Number of R&D projects pursuant to the age of principal investigators between 2001 and 2004.....	51
C.5 Number of research plans classified by sector between 2001 and 2003.....	52
C.6 Research plans classified by sector between 2001 and 2003 pursuant to the amount of institutional support	52
C.7 Number of research plans pursuant to the amount of institutional support between 2001 and 2004.....	54

C.8	Number of research plans pursuant to the age of principal investigators between 2001 and 2004.....	55
C.9	Number of registered R&D results classified pursuant to the type of a result and year of application.....	56
C.10	Number of R&D results registered between 2000 and 2003, classified pursuant to the categories of recipients and type of a result.....	58
C.11	Trend of institutional funding of research plans by regions between 2001 and 2004	60
C.12	Trend of targeted funding of research and development by regions between 2001 and 2004.....	62
C.13	Shares of non-public sources in the overall targeted support of research and development by categories of recipients between 2002 and 2004 (%)	64
D.	Bibliometric analysis of R&D results	65
D.1	Comparison of selected countries and the Czech Republic by relative publications production (annual average 2000–2004)	66
D.2	Comparison of selected countries and the Czech Republic by relative production of citations (annual average 2000–2004)	68
D.3.1	Comparison of selected countries and the Czech Republic by relative citation index of a country (period 2000–2004)	69
D.3.2	Trend of the relative citation index of the Czech Republic between 1994 and 2004.....	71
D.3.3	Comparison of scientific disciplines in the Czech Republic and selected countries pursuant to the relative citation index of a discipline in 2000–2004	72
D.3.4	Trend of the relative citation index of disciplines and number of publications in the Czech Republic in 1995 – 2004	86
E.	Patent applications, granted patents	93
E.1	Invention applications filed in the Czech Republic (number)	95
E.2	Invention applications filed in the Czech Republic (number)	97
E.3	Patents granted in the Czech Republic (number)	98
E.4	Patent applications filed with EPO (number of applications per one million inhabitants).....	99
E.5	Patents granted by EPO (number of patents per one million inhabitants).....	101
E.6	Patent applications filed with USPTO (number of applications per one million inhabitants).....	103
E.7	Patents granted by USPTO (number of patents per one million inhabitants)	105
F.	Competitiveness, innovation	107
F.1	Competitiveness according to the Global Competitiveness Report – for the World Economic Forum	108
F.1.1	Total Growth Competitiveness Index – 2001 to 2004 (rankings in the list of 104 countries).....	109
F.1.2	Total Growth Competitiveness Index and component indexes in 2004 (rankings in the list of 104 countries)	110
F.1.3	Technology Index and its three sub-indexes in 2004 (rankings in the list of 104 countries)	111
F.2	Competitiveness according to the World Competitiveness Yearbook 2004 of the Swiss IMD	112
F.2.1	Total competitiveness (rankings in the group of 60 countries)	113
F.3	European Innovation Scoreboard	114
F.3.1	Human resources	115
F.3.2	Knowledge creation	116
F.3.3	Transmission and application of knowledge	117
F.3.4	Innovations: finance, outputs, markets	118



F.3.5	Comparison with the EU-15 average	119
F.4	Use of venture capital for business development	120
F.4.1	Use of venture capital for early stages of business (% of GDP).....	121
F.4.2	Use of venture capital for expansion stages (% of GDP).....	122
G.	Implementation of the National Research and Development Policy....	125
H.	Evaluation of participation of the Czech Republic in the 6th EU Framework Programme for Research and Development	133
H.1	Participation of teams from EU-25 member statesin 6FP as a whole (numbers of participations; numbers of participation/mil. inhabitants)	136
H.2	Participation of Czech teams in selected programmes of 6FP and contracted support to these participations (numbers of participations; EUR thousand)	137
H.3	Numbers of participations of Czech teams in individual 6FP instruments (forms of support) and distribution of support demanded by Czech teams from the European Commission towards these instruments (numbers, EUR thousand)	139
H.4	Relative contracted supports from 6FP per 1 researchworker in EU-25 Member States (EUR per person)	141
H.5	Relative contracted supports from 6 FP per unit of R&D expenditure in EU-25 Member States (EUR/EUR)	142
I.	Remarkable achievements in research and development	143
I. 1	Ministry of Education, Youth and Sport	144
I. 2	Academy of Sciences of the Czech Republic	146
I. 3	Grant Agency of the Czech Republic.....	148
I. 4	Ministry of Agriculture.....	150
I. 5	Ministry of Culture.....	151
I. 6	Czech Mining Office.....	152
I. 7	Ministry of Industry and Trade.....	153
I. 8	Ministry of Health.....	154
P.I	Indicators of economic performance Annex I	157
P.I.1	GDP per head (USD per head; current prices, PPP)	158
P.I.2	Proportional GDP per capita value in PPP (EU-25 = 100 %)	160
P.I.3	Overall productivity of labour (GDP per number of workers as share of the overall EU-25 productivity = 100 %)	162
P.I.4	Percentage of the high-tech products export of the total export (in per cent)	165
P.I.5	Employment in manufacturing industries with medium-high to high technology (in per cent of overall employment).....	167
P.I.6	Employment in high-tech services (in per cent of overall employment)	169
P.I.7	Technology balance of payments (income/GDP in per cent).....	171
P.I.8	Technology balance of payments (expenditure/GDP in per cent)	173
P.II	Resolution of the Government of the Czech Republic	
	No: 1588 of 23 november 2005 Annex II	175
Comment:	176