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CZECH REPUBLIC AND WORLD

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INTRODUCTION

The role of information and communication technologies (ICT) has recently received considerable attention in all developed countries due to their exceptional role in enhancement of economic growth and social change. Even though the production and expansion of ICT varies significantly between and within countries, a general agreement prevails that it is necessary to collect reliable and comprehensive indicators with a purpose to track development and usage of new information technologies. Having reliable information is the ground for analysing the relation of ICT and economic and social development.

Thanks to the increasing importance of the ICT (as mentioned above), a progress has been made in developing internationally comparable ICT statistics. This brochure was compiled by the Czech Statistical Office in order to provide a comprehensive overview of statistical indicators about the development of the ICT. It contains characteristics of ICT describing the situation and development in the Czech Republic as well as in other developed countries so the international comparison can be made immediately.

The brochure consists of following chapters:

- Chapter A: '**ICT professionals**' brings an overview about the quantity and structure of the professionals working in the ICT fields (computing professionals and computer associate professionals).
- Chapter B: '**ICT Expenditure and Investment**' includes main economic indicators about intermediate consumption, investments and final consumption of ICT equipment and services.
- Chapter C: '**ICT Research and Development and Patents**' provide data not only about expenditure in ICT research and development (ICT equipment and software separately) but also brings an overview about granted and valid ICT patents.
- Chapter D: '**ICT International Trade**' includes exports and imports both of the ICT goods (in more detail Communication equipment, Computers and related equipment, Consumer electronics, Electronic components and ICT parts n.e.s.) and of the ICT services (Telecommunications and IT services).
- Chapter E: '**ICT sector**' consists of main economic indicators (as employment, investment, R&D expenditure, value added and turnover) for industries that are primarily engaged in the production of ICT goods and services.

For more detailed information, please visit our Science and IT website on www.czso.cz. If you need any further information or if you have any questions, do not hesitate to contact us directly. Your suggestions will be incentives for further improvement of future releases.

In Prague, September 2009

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A IT professionals

ICT professionals are defined as persons employed in the national economy, whose principal activity comes within the following two main occupational groups expressed in terms of the current International Standard Classification of Occupations (CZ-ISCO-88 in the Czech Republic):

CZ-ISCO 213 – Computing professionals

- 2131 Computer systems designers and analysts
- 2132 Computer programmers
- 2139 Computing professionals not elsewhere classified

CZ-ISCO 312 – Computer associate professionals

- 3121 Computer assistants
- 3122 Computer equipment operators
- 3123 Industrial robot controllers
- 3129 Computer associate professionals not elsewhere classified

Computing professionals conduct research, plan, develop and improve computer based information systems, software and related concepts, develop principles and operational methods as well as maintain data dictionary and management systems of databases to ensure integrity and security of data.

Computer associate professionals provide assistance to users of computers and standard software packages, control and operate computers and peripheral equipment and carry out limited programming tasks connected with the installation and maintenance of computer hardware and software.

The **Czech Labour Force Survey** is used as a data source for ICT professionals in the Czech Republic (since 1993). It provides population estimates of ICT professionals for the main socio-demographic characteristics, such as sex, age, education and region of residence. ICT professionals can be further broken down by economic activity according to the industry classification (CZ- NACE) and by occupation according to the CZ-ISCO 88 classification.

Presented data are always averages for each year. For whole chapter holds that the annual averages lower than 3 000 persons must be considered as a data with very low reliability

Structural statistic on earnings of employees is used as data source for **average monthly gross wage**. This survey is organized by the Czech Statistical Office and the Ministry of Labour and Social Affairs.

Average monthly gross wage in the Czech Republic presented in this publication is different from average monthly gross wage in other documents. In this publication are presented data about the sample of the survey (not grossed up results) covering about 1,7 million engaged persons.

Additional data and metadata for IT professionals statistics are available on the following dedicated website (temporally only in Czech):

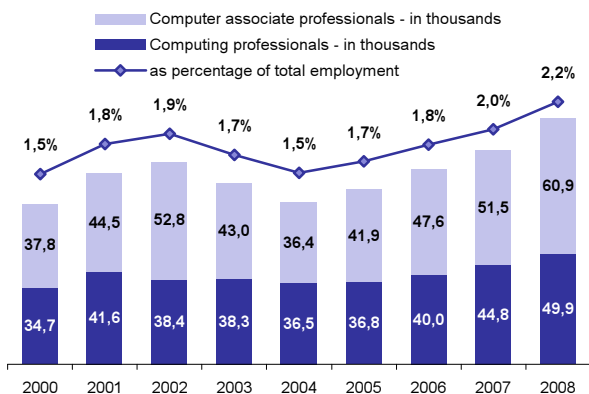
http://www.czso.cz/csu/redakce.nsf/i/lidske_zdroje_v_informacni_spolecnosti_it_odbornici

A IT professionals

Table A1 IT professionals in the CR

	thousands persons		
	2006	2007	2008
Total	87,6	96,3	110,8
Computing professionals	40,0	44,8	49,9
Computer associate professionals	47,6	51,5	60,9
Gender			
Males	74,6	84,1	96,1
Females	13,0	12,2	14,7
Age group			
15-24 years	6,9	9,1	12,2
25-34 years	42,3	42,6	50,6
35-44 years	21,2	23,4	25,6
45-54 years	10,6	15,3	16,8
55+ years	6,5	5,9	5,5
Qualification			
Tertiary	38,8	42,4	45,0
Upper secondary	42,1	45,3	54,8
Other	6,6	8,6	11,0
Field of study			
Basic programmes	6,9	9,3	10,0
Business and administration	4,5	4,8	6,1
Computing	9,7	10,4	12,9
Engineering and engineering trades	39,8	46,0	54,8
Other	26,6	25,8	27,0
CZ-NACE			
Agriculture	0,4	0,7	0,3
Industry	27,3	28,3	35,6
Services	59,9	67,2	74,9

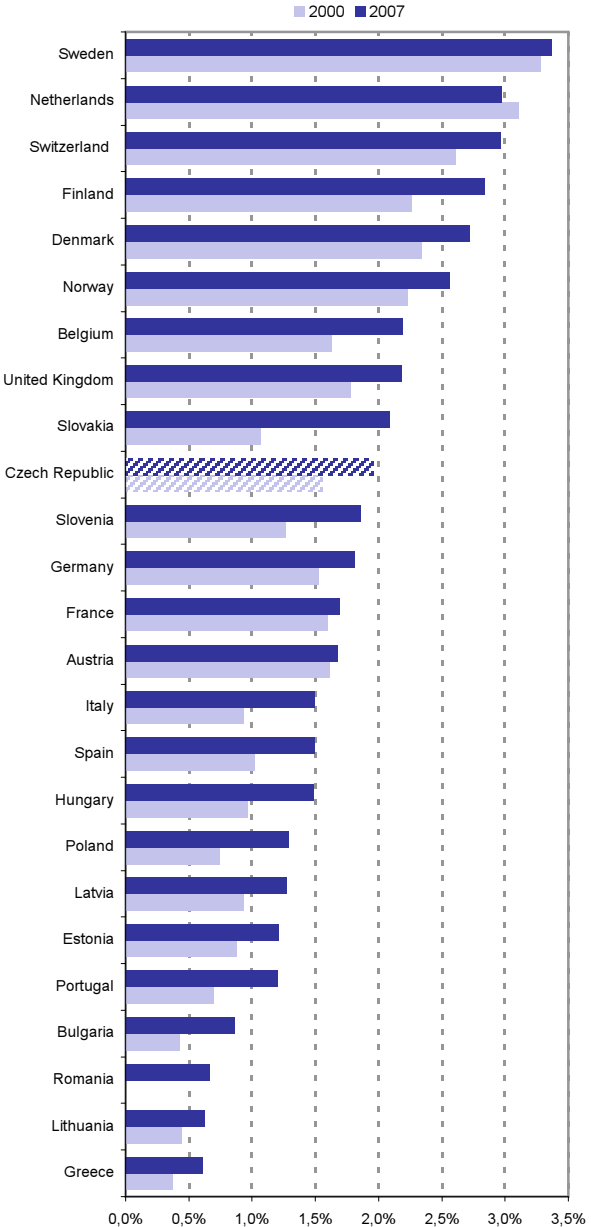
Figure A1 IT professionals



Source: CZSO, Labour force survey

A IT professionals

Figure A2 IT professionals
(as a percentage of total employment)



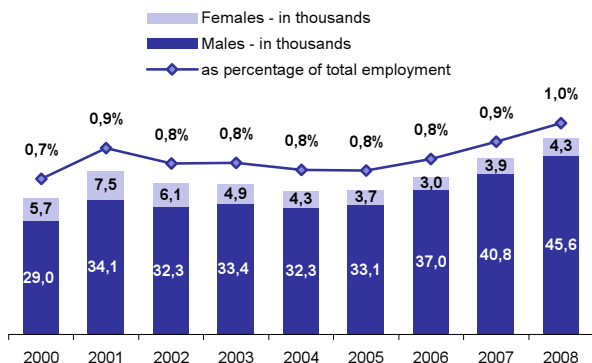
Source: Eurostat, European Labour Force Survey

A IT professionals

Table A2 Computing professionals in the CR

	thousands persons		
	2006	2007	2008
Total	40,0	44,8	49,9
Comp. systems designer and analysts	4,5	6,8	5,4
Comp. programmers	28,0	28,0	33,8
Com. profess. not elsewhere classified	7,4	9,5	10,0
Gender			
Males	37,0	40,8	45,6
Females	3,0	3,9	4,3
Age group			
15-24 years	2,5	2,7	3,8
25-34 years	19,9	19,4	22,5
35-44 years	9,6	12,6	11,7
45-54 years	5,2	7,0	9,3
55+ years	2,8	2,9	2,7
Qualification			
Tertiary	26,0	29,2	30,1
Upper secondary	13,0	15,1	18,4
Other	1,0	0,4	1,4
Field of study			
Basic programmes	2,9	3,1	4,8
Business and administration	0,6	1,0	1,3
Computing	6,6	7,4	9,3
Engineering and engineering trades	18,6	20,7	23,8
Other	11,4	12,5	10,7
CZ-NACE			
Agriculture	0,3	0,5	0,3
Industry	10,6	10,6	12,9
Services	29,1	33,6	36,7

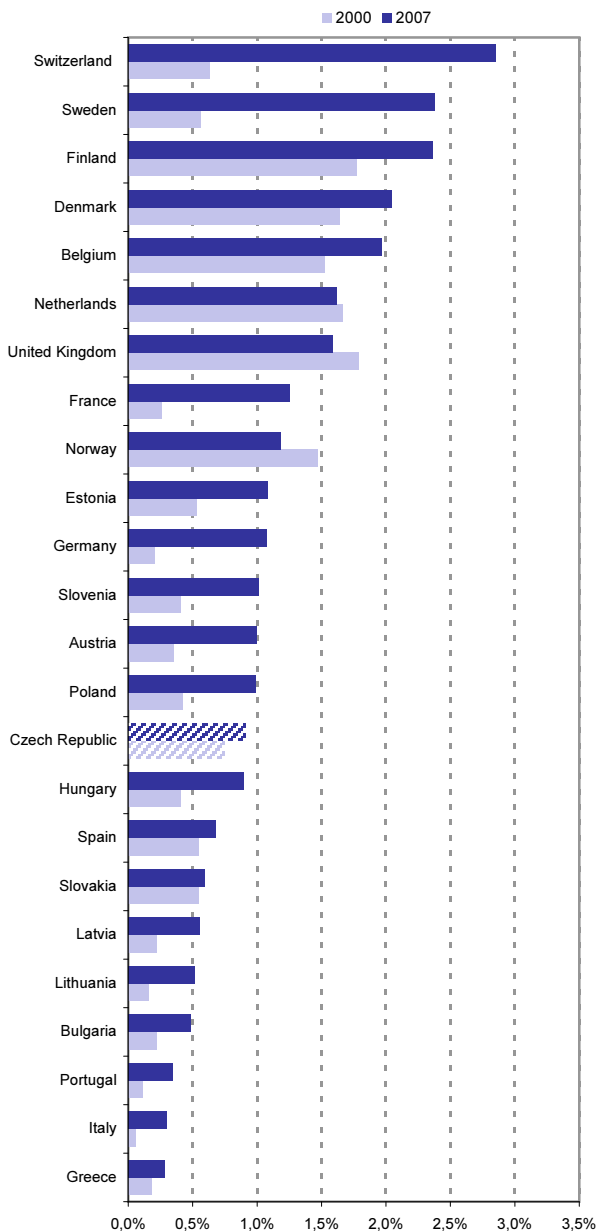
Figure A3 Computing professionals



Source: CZSO, Labour force survey

A IT professionals

**Figure A4 Computing professionals
(as a percentage of total employment)**



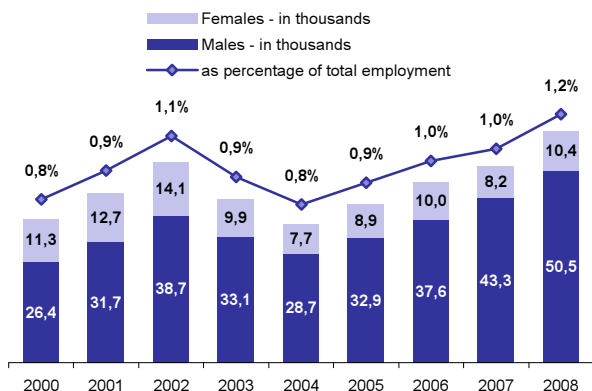
Source: Eurostat, European Labour Force Survey

A IT professionals

Table A3 Computer associate professionals in the CR

	thousands persons		
	2006	2007	2008
Total	47,6	51,5	60,9
Computer assistants	12,4	12,8	13,2
Computer equipment operators	22,0	23,5	24,9
Industrial robot controllers	5,9	7,0	11,1
Other computer associate professionals	5,7	7,2	10,3
Gender			
Males	37,6	43,3	50,5
Females	10,0	8,2	10,4
Age group			
15-24 years	4,4	6,3	8,5
25-34 years	22,4	23,2	28,1
35-44 years	11,6	10,7	14,0
45-54 years	5,4	8,2	7,5
55+ years	3,7	3,0	2,8
Qualification			
Tertiary	12,8	13,1	14,9
Upper secondary	29,2	30,2	36,3
Other	5,6	8,2	9,6
Field of study			
Basic programmes	4,1	6,2	5,2
Business and administration	3,9	3,8	4,8
Computing	3,1	3,0	3,7
Engineering and engineering trades	21,2	25,3	31,0
Other	15,3	13,2	16,2
CZ-NACE			
Agriculture	0,1	0,3	0,0
Industry	16,7	17,7	22,7
Services	30,8	33,6	38,2

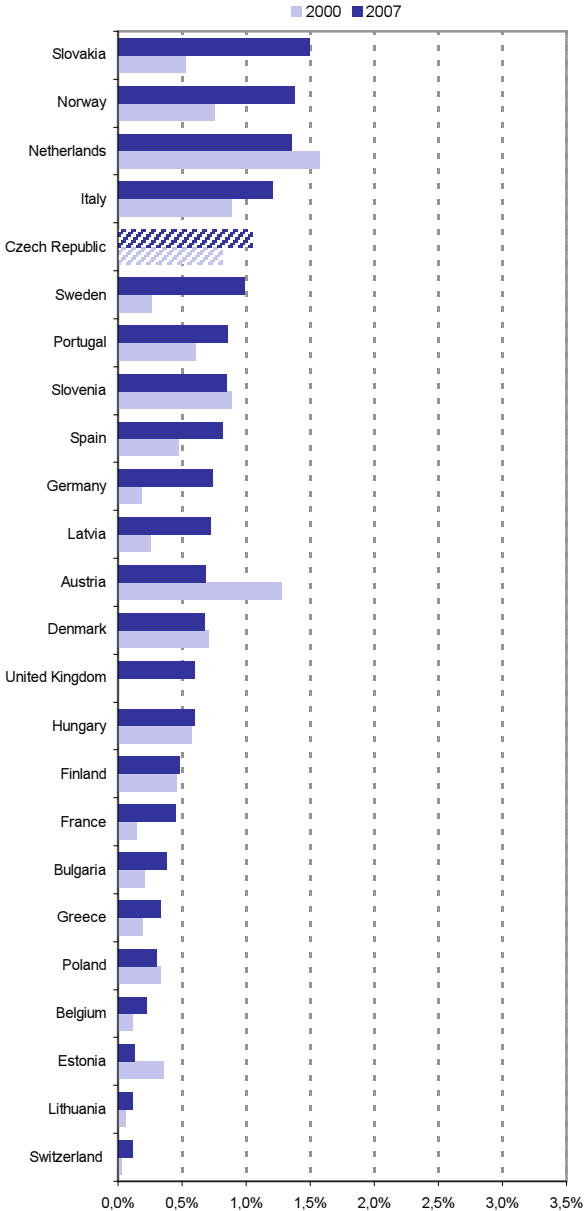
Figure A5 Computer associate professionals



Source: CZSO, Labour force survey

A IT professionals

Figure A6 Computer associate professionals
(as a percentage of total employment)



Source: Eurostat, European Labour Force Survey

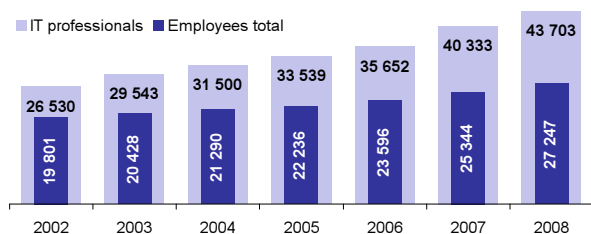
A IT professionals

Table A4 Average monthly gross wage* of IT professionals, 2008

CZK

	IT profess.	Computing profess.	Computer associate profess.
Total	43 703	48 966	36 234
Gender			
Males	45 484	50 223	38 343
Females	35 000	41 811	27 740
Age group			
less than 19 years	18 521		18 597
20-24 years	26 015	29 412	24 472
25-29 years	36 864	40 563	32 575
30-34 years	48 522	53 083	41 196
35-39 years	51 637	56 364	43 300
40-44 years	49 392	53 455	42 334
45-49 years	46 257	50 409	38 740
50 -54 years	43 558	48 365	34 809
55 -59 years	41 185	46 006	33 080
60-64 years	43 018	47 940	33 266
65+ years	39 780	42 563	33 019
Qualification			
Master and doctoral	54 255	54 892	52 329
Higher professional and bachelo	39 037	41 932	34 181
Upper secondary	36 193	41 778	31 268
Other	25 977		25 977
Size class of enterprises			
10-49 employees	36 822	42 417	30 323
50-249 employees	38 013	40 946	33 702
250-999 employees	48 268	52 368	42 485
1 000-4 999 employees	40 888	47 557	32 961
5 000+ employees	44 158	49 633	31 448
Sector of performance			
Business sector	45 246	50 928	37 297
Non-business sector	26 607	28 685	23 143

Figure A7 Average monthly gross wage* (CZK)



* Average monthly gross wage presented in this publication is different from average monthly gross wage in other documents. In this publication are presented data about the sample of the survey (not grossed up results) cover c. 1,7 mil. engaged persons.

Source: Structural statistics on earnings of employees

B ICT Expenditure and Investment

The following guiding principle was used to identify **ICT products**: „ICT products must primarily be intended to fulfill or enable the function of information processing and communication by electronic means, including transmission and display“ (OECD 2009). The Statistical Classification of Products by Activity in the European Economic Community, 2002 version (CZ-CPA) is used to classify ICT products:

ICT equipment and components (goods)

- CZ-CPA 30: Office machinery and computers
- CZ-CPA 32: Radio, tv and communication equipment and apparatus
 - 32.1: *Electronic valves and tubes and other electronic components*
 - 32.2: *Television and radio transmitters; apparatus for line telephony and telegraphy*
 - 32.3: *Television and radio receivers; sound or video recording or reproducing apparatus and associated goods*

ICT services

- CZ-CPA 642: Telecommunications services
- CZ-CPA 72: Computer and related services

ICT expenditures include: Intermediate consumption (P.2), Investment - Gross fixed capital formation (P.51 + P.53) and Final consumption expenditures of households, government and private non-profit institutions (P.2).

Investment in ICT equipment and software in tables refers to the **Gross fixed capital formation (GFCF)** (P.51).

The following simplified CZ-CPA terminology for the ICT products is used in this chapter:

ICT equipment and components

- CZ-CPA 30: Computers and related equipment
- CZ-CPA 32: Telecommunication equipment

ICT services

- CZ-CPA 642: Telecommunications services (only for expenditures)
- CZ-CPA 72: IT services; software (for investment)

The data come from the CZSO's **Annual National Accounts Statistics**. Information on annual national accounts is available on the website of the Czech Statistical Office at:

http://www.czso.cz/eng/redakce.nsf/i/gdp_national_accounts_ekon

The CZSO's **Household Budget Survey** acts as a supplementary source for the **households' consumption expenditures on ICT equipment and services** that also originate from the same source.

More detailed information and data are available free of charge at the following dedicated website (only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/domacnosti_a_jednotlivci

B ICT Expenditure and Investment

Table B1 ICT equipment and services expenditures in the CR

CZK million

	2005	2006	2007
Total	499 893	610 443	741 649
ICT equipment	251 237	339 384	445 605
Computers and related equipment	108 389	161 239	189 700
Telecommunication equipment*	142 848	178 145	255 905
ICT services	248 656	271 059	296 044
Telecommunications services**	151 273	162 044	167 009
IT services	97 383	109 015	129 035
Supply resources			
Domestic output (excl. domestic production intended for exports)	213 943	242 413	289 824
Imports	234 904	311 297	381 621
Others (trade margins, taxes, subsidies)	51 046	56 733	70 204
Type of expenditures			
Investment	58 231	60 438	65 548
Final consumption	70 133	79 681	82 607
Households	69 895	79 380	82 289
Government and non-profit institutions	238	301	318
Intermediate consumption	371 529	470 324	593 494

Figure B1 ICT equipment and services expenditures (CZK bill.)

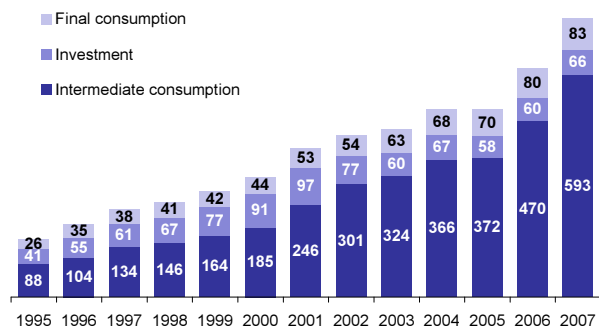
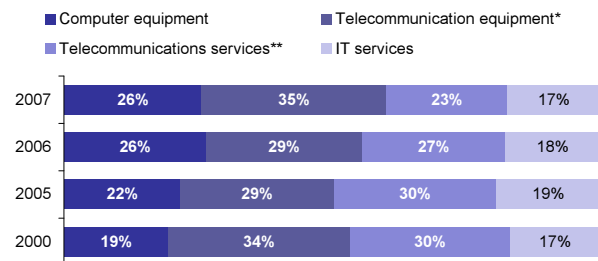


Figure B2 ICT equipment and services expenditures by category



* Includes CZ-CPA 32 - Radio, television and communication equipment

** Includes CZ-CPA 64 - Post and telecommunications

Source: CZSO, Annual National Accounts

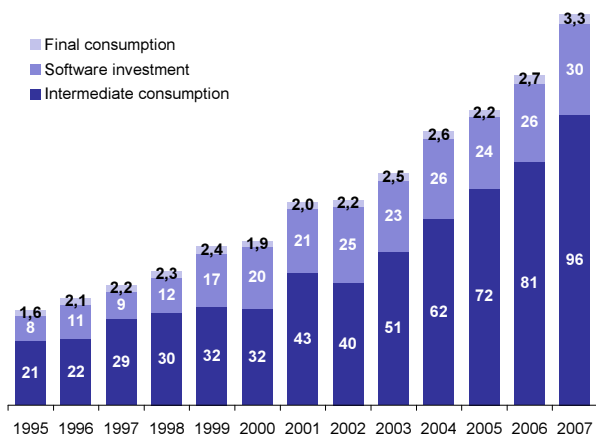
B ICT Expenditure and Investment

Table B2 IT services expenditures in the CR

CZK million

	2005	2006	2007
Total	97 383	109 015	129 035
Supply resources			
Domestic output (excl. domestic production intended for exports)	73 906	82 143	96 352
Imports	12 112	13 913	16 589
Others (trade margins, taxes, subsidies)	11 365	12 959	16 094
Type of expenditures			
Investment in software	23 522	25 775	29 960
Final consumption	2 211	2 713	3 276
Households	2 049	2 506	3 051
Government and non-profit institutions	162	207	225
Intermediate consumption by CZ-NACE	71 650	80 527	95 799
Agriculture, Forestry, Fishing	437	505	575
Mining and quarrying	129	161	187
Manufacturing	6 821	8 413	10 216
Electricity, gas and water supply	255	261	283
Construction	367	429	525
Wholesale and retail trade	7 277	7 182	7 656
Hotels and restaurants	577	651	620
Transport, storage and communication	6 021	6 477	8 339
Financial intermediation	14 375	16 189	17 509
Real estate and business activities	7 584	8 208	11 129
Computer and related activities	20 904	23 680	30 085
Public administration	3 665	4 751	4 800
Education	1 445	1 496	1 546
Health	550	607	763
Other community, social and personal serv.	1 243	1 517	1 566

Figure B3 ICT services expenditures (CZK billion)



Source: CZSO, Annual National Accounts

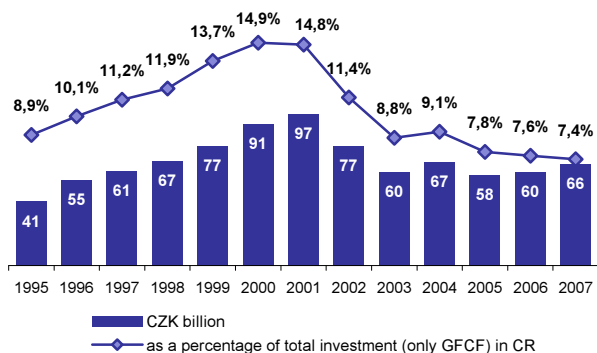
B ICT Expenditure and Investment

Table B3 Investment in ICT equipment and software in the CR

CZK million

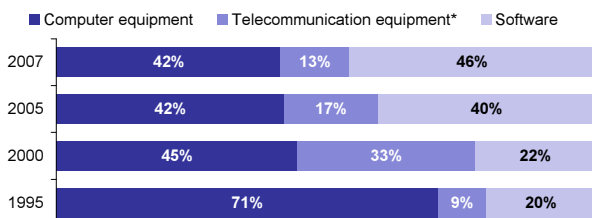
	2005	2006	2007
Total	58 231	60 438	65 548
Computers and related equipment	24 615	25 060	27 287
Telecommunication equipment*	10 094	9 603	8 301
Software	23 522	25 775	29 960
Industry (CZ-NACE)			
Agriculture, Forestry, Fishing	171	209	145
Mining and quarrying	257	207	183
Manufacturing	8 169	8 493	8 020
Electricity, gas and water supply	2 579	1 825	2 329
Construction	931	844	937
Wholesale and retail trade	4 797	5 353	5 595
Hotels and restaurants	421	597	357
Transport, storage and communication	14 159	14 612	16 785
Financial intermediation	7 152	8 227	8 196
Real estate and business activities	4 998	5 464	5 362
Computer and related activities	4 586	5 139	6 211
Public administration	5 182	4 859	6 316
Education	1 930	1 849	1 864
Health	1 125	784	670
Other community, social and personal serv.	1 774	1 976	2 578

Figure B4 Investment in ICT equipment and services



GFCF - Gross Fixed Capital Formation

Figure B5 Investment in ICT by category



* Includes CZ-CPA 32 - Radio, television and communication equipment

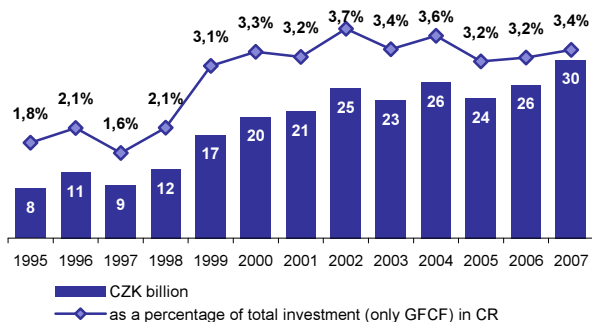
Source: CZSO, Annual National Accounts

B ICT Expenditure and Investment

Table B4 Investment in software in the CR

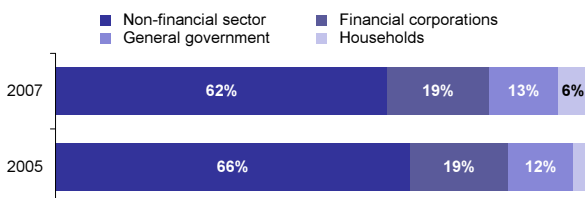
	CZK million		
	2005	2006	2007
Total	23 522	25 775	29 960
Institutional sector			
Non-financial sector	15 623	15 824	18 623
thereof foreign affiliation	7 038	9 508	10 704
Financial corporations	4 363	5 633	5 731
General government	2 841	2 964	3 875
Households	677	1 323	1 697
Non-profit institutions	18	31	34
Industry CZ-NACE			
Agriculture, Forestry, Fishing	75	108	68
Mining and quarrying	167	108	83
Manufacturing	4 281	4 753	4 350
Electricity, gas and water supply	1 183	554	800
Construction	385	334	397
Wholesale and retail trade	1 723	2 247	3 128
Hotels and restaurants	76	138	141
Transport, storage and communication	4 652	4 823	5 587
Financial intermediation	4 386	5 682	5 731
Real estate and business activities	1 341	990	1 571
Computer and related activities	1 962	2 793	3 663
Public administration	2 355	2 312	3 353
Education	241	241	274
Health	463	243	195
Other community, social and personal serv.	232	449	619

Figure B6 Investment in software



GFCF - Gross Fixed Capital Formation

Figure B7 Investment in software by sector



Source: CZSO, Annual National Accounts

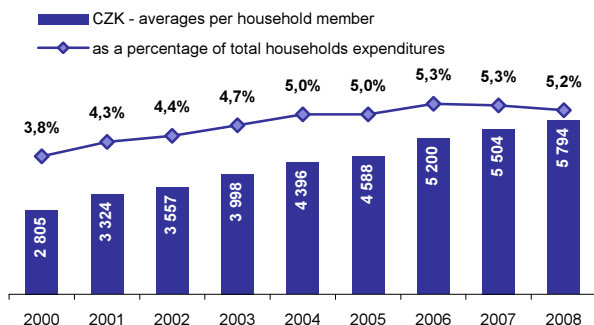
B ICT Expenditure and Investment

Table B5 Household consumption expenditure on ICT in the CR

CZK - averages per household member

	2006	2007	2008
Average household	5 201	5 504	5 794
Telephones	280	284	228
Fixed telephones	9	4	5
Mobile phones	271	281	224
Computers	648	735	666
Communications services	4 273	4 484	4 900
Fixed telephone services	1 331	1 050	871
Mobile phone services	2 507	2 779	3 123
Internet provider services	435	655	906
Households with lowest income (the bottom decile)	3 105	3 586	3 993
Telephones	148	180	135
Fixed telephones	4	1	4
Mobile phones	144	180	131
Computers	251	475	422
Communications services	2 706	2 931	3 436
Fixed telephone services	664	421	400
Mobile phone services	1 808	2 117	2 325
Internet provider services	234	393	711
Households with highest income (the top decile)	8 382	8 499	9 679
Telephones	562	396	472
Fixed telephones	12	1	8
Mobile phones	550	395	465
Computers	1 094	1 261	1 472
Communications services	6 726	6 842	7 735
Fixed telephone services	1 851	1 641	1 300
Mobile phone services	3 998	4 098	4 891
Internet provider services	877	1 102	1 544

Figure B8 Household consumption expenditure on ICT



Source: CZSO, Household Budget Survey

C ICT Research and Development and Patents

The main source of statistical data on ICT research and development (ICT R&D) is the **annual survey** measuring human and financial resources designed for R&D activities (VTR5-01) carried out by the Czech Statistical Office. This survey is fully governed by EU and OECD methodological principles laid down in the **Frascati manual (OECD, Paris 2002)** and Commission Regulation (EC) No. 753/2004 of 22 April 2004.

Reporting units in the R&D survey are all legal and natural persons **conducting R&D in the Czech Republic** as their principal or secondary economic activity, irrespective of the number of personnel, sector or CZ-NACE activity.

The **term research and development is defined** as a systematic creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of human beings, culture and society, and carried out for the purpose of obtaining or using new knowledge using methods allowing confirmation, widening or refuting of knowledge obtained.

Information on **ICT R&D conducted in the Czech Republic** comes from the special questions on R&D expenditures in this field that are encompassed in the VTR5-01 survey. The Statistical Classification of Products by Activity in the European Economic Community, 2002 version (**CZ-CPA**), is used to define ICT:

- CZ-CPA 30 - Office machinery and computers
- CZ-CPA 32 - Radio, television and communication equip. and app.
- CZ-CPA 642 - Telecommunications services
- CZ-CPA 72 - Computer and related services

Additional data and metadata for R&D statistics are available on the following dedicated website (temporarily only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/statistika_vyzkumu_a_vyvoje

The **Industrial Property Office of the Czech Republic (IPO CR)** is responsible for the administration of industrial rights in the Czech Republic. The patent data are processed by the Czech Statistical Office from data sources of the IPO CR and are classified according to methodology set out in the **OECD Patent Manual (OECD, Paris, 2009)**. The **International Patent Classification (IPC)** makes it possible to classify utility models and granted patents to technological areas including ICT.

The OECD has designed definitions of various technical fields including ICT-related patents using IPC codes. **ICT-related patents** include four main categories:

- Telecommunications
- Consumer electronics
- Computers, office machinery
- Other ICT

The Czech Statistical Office publishes additional information about the **Czech applicants** (entities registered in the Czech Republic) broken down by their **institutional sector** (business enterprise sector, government sector, higher education sector, and natural persons), by region of residence of the patent holder and by specific technological fields including ICT.

The **Patent Cooperation Treaty (PCT)** procedure provides the possibility to seek patent rights in a large number of countries by filing a single international application (PCT application).

Priority date (year): first date (year) of filing of a patent application, anywhere in the world, to protect an invention. It is the earliest and therefore closest to the invention date.

Additional data and metadata for patent statistics are available on the following dedicated website (temporarily only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/patentova_statistika

C ICT Research and Development and Patents

Table C1 Total ICT R&D expenditures in the CR

	CZK million		
	2006	2007	2008
Total	5 017	6 170	7 055
ICT equipment	2 758	3 325	3 794
Software	2 258	2 845	3 261
Sector of R&D performance			
Business enterprise	4 528	5 557	6 216
Government	243	161	263
Higher education	234	435	561
Private non-profit	11	18	16

Table C2 ICT R&D expenditures funded by government in CR

	CZK million		
	2006	2007	2008
Total	1 075	1 123	1 315
ICT equipment	850	861	1 018
Software	225	261	297
Sector of R&D performance			
Business enterprise	659	578	609
Government	220	141	225
Higher education	188	388	475
Private non-profit	8	15	5

Figure C1 Total R&D expenditures in ICT

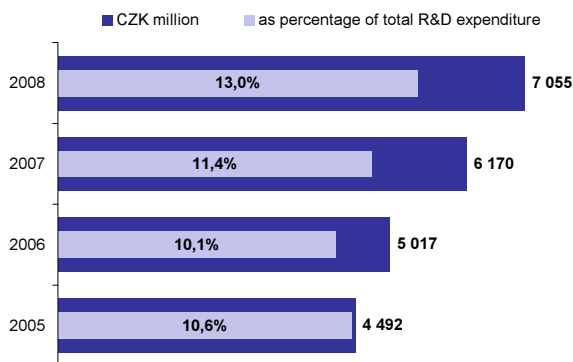
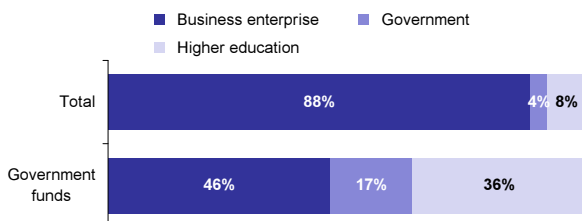


Figure C2 R&D expenditures in ICT by sector of performance, 2008



Source: CZSO, R&D survey

C ICT Research and Development and Patents

Table C3 Total software R&D expenditures in the CR

CZK million

	2006	2007	2008
Total	2 258	2 845	3 261
Sector of R&D performance			
Business enterprise	2 152	2 701	3 083
Government	14	8	9
Higher education	90	135	169
Private non-profit	2	1	0

Table C4 Software R&D expend. funded by government in CR

CZK million

	2006	2007	2008
Total	225	261	297
Sector of R&D performance			
Business enterprise	138	141	142
Government	13	7	8
Higher education	72	114	146
Private non-profit	2	0	0

Figure C3 Total R&D expenditures in software

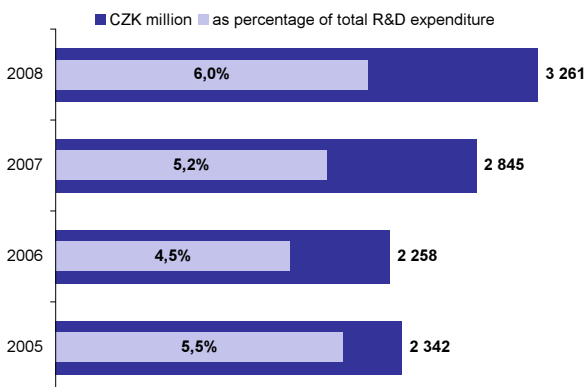
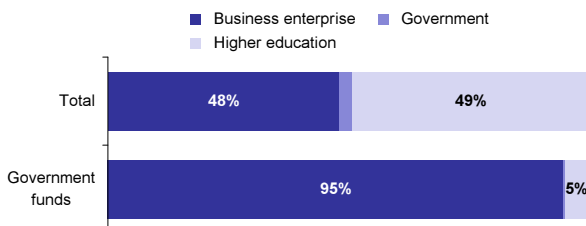


Figure C4 R&D expenditures in software by sector of performance, 2008



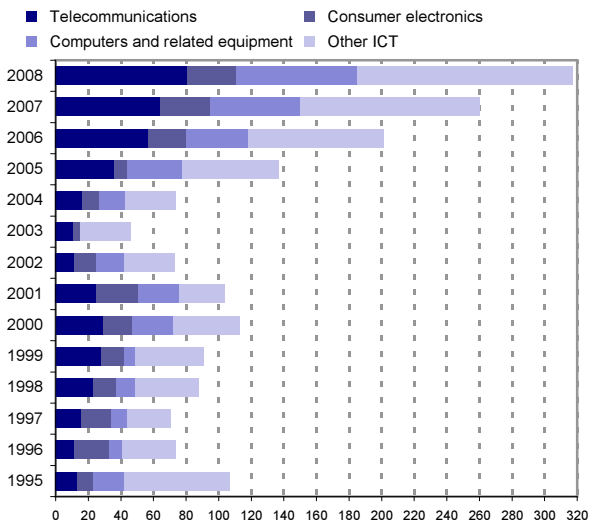
Source: CZSO, R&D survey

C ICT Research and Development and Patents

Table C5 ICT patents granted in the CR

	2006	2007	2008
Total	201	260	317
Telecommunications	57	64	81
Consumer electronics	23	31	30
Computers and related equipment	38	55	74
Other ICT	83	110	132
Country of the patent applicant			
Czech applicants	21	25	24
Business enterprise	9	12	12
Government			3
Higher education	5	6	5
Private persons	7	7	5
Foreign applicants	180	236	293
Germany	68	78	95
United states	16	29	41
Netherlands	15	22	13
Switzerland	14	20	21
France	12	11	18
Japan	10	11	18
United Kingdom	7	8	12
Korea	6	6	2
Italy	8	10	16
Sweden	4	10	15
Austria	1	8	3
Finland	2	5	6
Other	17	17	34

Figure C5 ICT patents granted in the CR

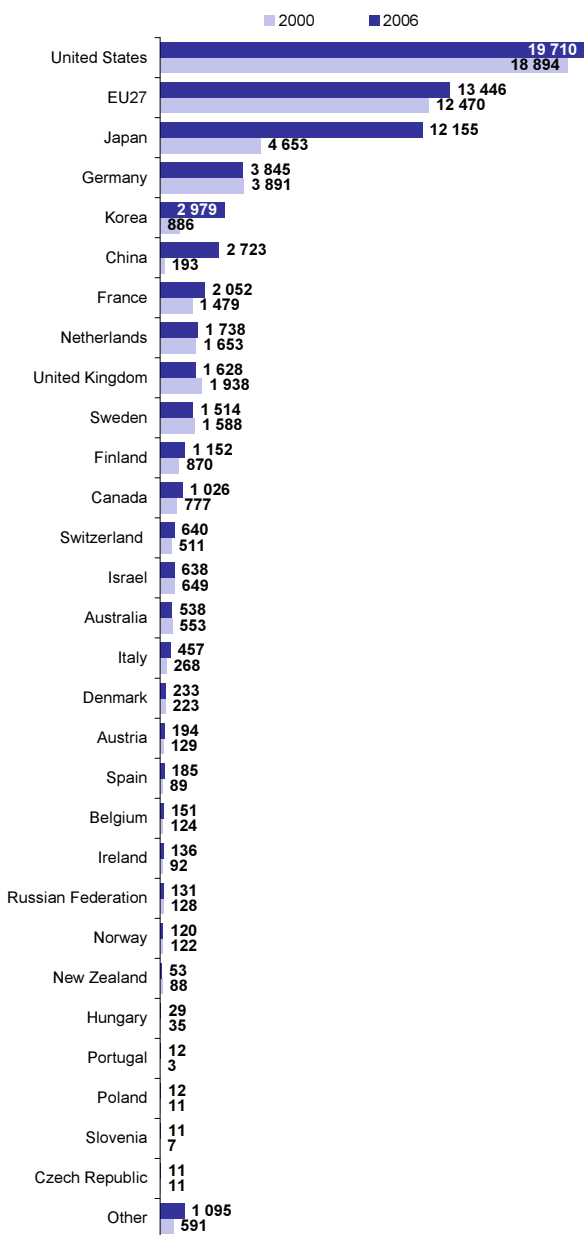


by grant date and country of the applicant

Source: Patent Office of the Czech Republic and CZSO calculations

C ICT Research and Development and Patents

Figure C6 ICT patent applications by PCT



by priority date and country of the applicant

Source: OECD

C ICT Research and Development and Patents

Table C6 ICT patents valid in the CR, 31.12.2008

	Czech	Foreign	Total
Total	144	970	1 113
Telecommunications	15	267	282
Consumer electronics	4	149	153
Computers and related equipment	24	209	233
Other ICT	101	345	445

Figure C7 ICT patents valid in the CR by category, 31.12.2008

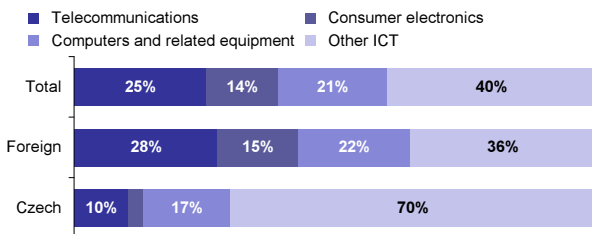
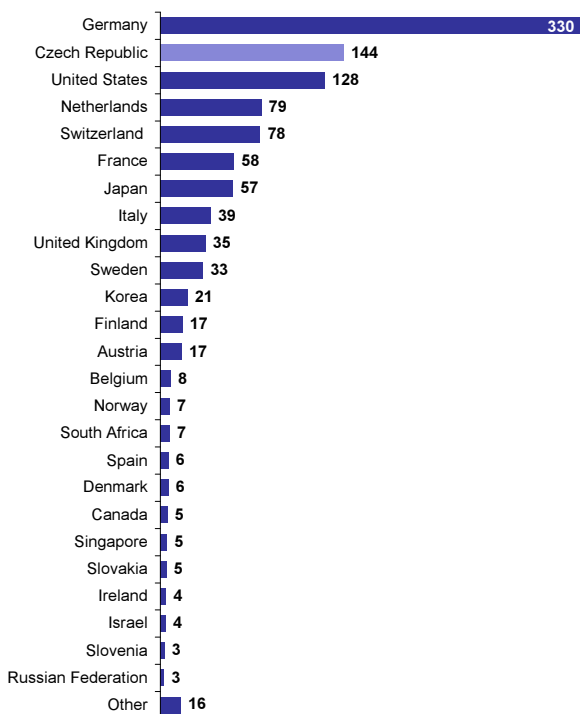


Figure C8 ICT patents valid in the CR by applicant country, 31.12.2009



Source: Patent Office of the Czech Republic and CZSO calculations

D ICT International Trade

ICT international trade contains international trade of ICT goods as well as international trade with ICT services. Definitions of these two components are below.

International trade in ICT goods

According to OECD methodology, the ICT goods includes items that must be intended to fulfill the function of information processing and communication including transmission, reception, recording, reproducing and displaying by electronic means. In addition to this such goods should be able to be networked or to be components of goods that can be networked.

New list of ICT goods (provisional classification) includes items listed in the 2007 Harmonized System (HS 2007) that complies best with the 2007 OECD definition of ICT manufacturing industries classified in the ISIC, Rev.4 and the 2008 OECD definition of information economy products based on the CPC V2 (provisional classification).

HS 2007 codes of ICT goods were grouped into the following four broad categories:

- Communication equipment
- Computers and related equipment
- Consumer electronics
- Electronic components and parts of ICT n.e.s.

Note: New data published in this brochure are not comparable with the previous ones based on the 2003 OECD goods definition in HS 2002. The scope of ICT goods has narrowed compared with the 2003 definition (e.g. does not include other ICT goods such as ICT medical and scientific equipment).

The Czech International Trade database was used as a data source for national data. For more information see:

<http://apl.czso.cz/pll/stazo/STAZO.STAZO?jazyk=EN>

Additional data and metadata on ICT goods international trade statistics are available on the following dedicated website (temporally only in Czech)

http://www.czso.cz/csu/redakce.nsf/i/zahranicni_obchod_s_ict_zbozim

International trade in ICT services

Data on trade in ICT services are currently limited compared to data on trade in ICT goods. The current services classification used by UNSD in its UN Service Trade Database is same as the Extended Balance of Payments Services Classification (EBOPS) which includes:

- 247 Telecommunications services (transmission of sounds, images or other information via telephone, telex, telegram, cable, radio or television, satellite, electronic mail, facsimile, etc., including network communications, teleconferences and support services.
- 263 Computer services (data bases, such as development, storage, and on-line time series, data processing, hardware consultancy, software implementation, maintenance and repair of computers and peripheral equipment.

ICT services are included in the Balance of Payments (BOP) within the services trade statistics. Data about trade in ICT service in the Czech Republic comes from the direct quarterly survey among respondents on exports and imports of services ZO 1-04 that have been conducted by the Czech Statistical Office since 2005. The individual BOP items are defined in compliance with individual receipt and payment items and corresponding international codes (BPM5).

Additional data and metadata on ICT services international trade statistics are available on the following dedicated website (temporally only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/zahranicni_obchod_s_ict_sluzbami

D ICT International Trade

Table D1 ICT goods exports from the CR

CZK million

	2006	2007	2008
Total	277 715	346 025	360 216
Communication equipment	16 401	46 994	52 170
Computers and related equipment	163 741	181 150	172 318
Consumer electronics	61 137	82 769	91 781
Electronic components and ICT parts n.e.	36 436	35 111	43 946

Figure D1 ICT goods exports

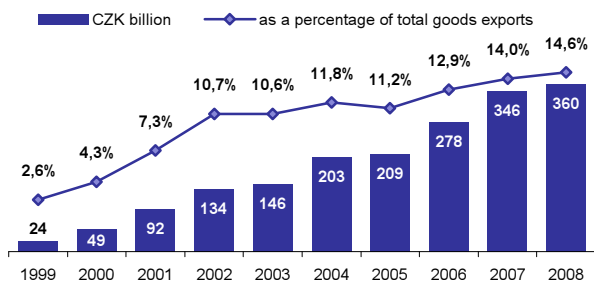


Figure D2 ICT goods exports by categories

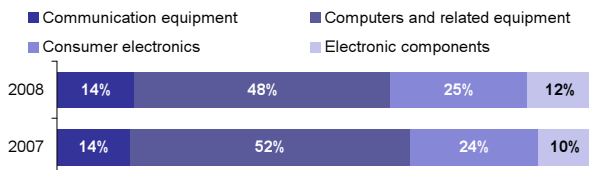
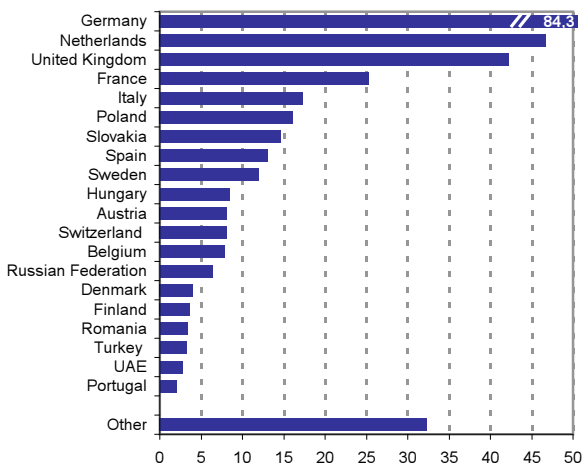


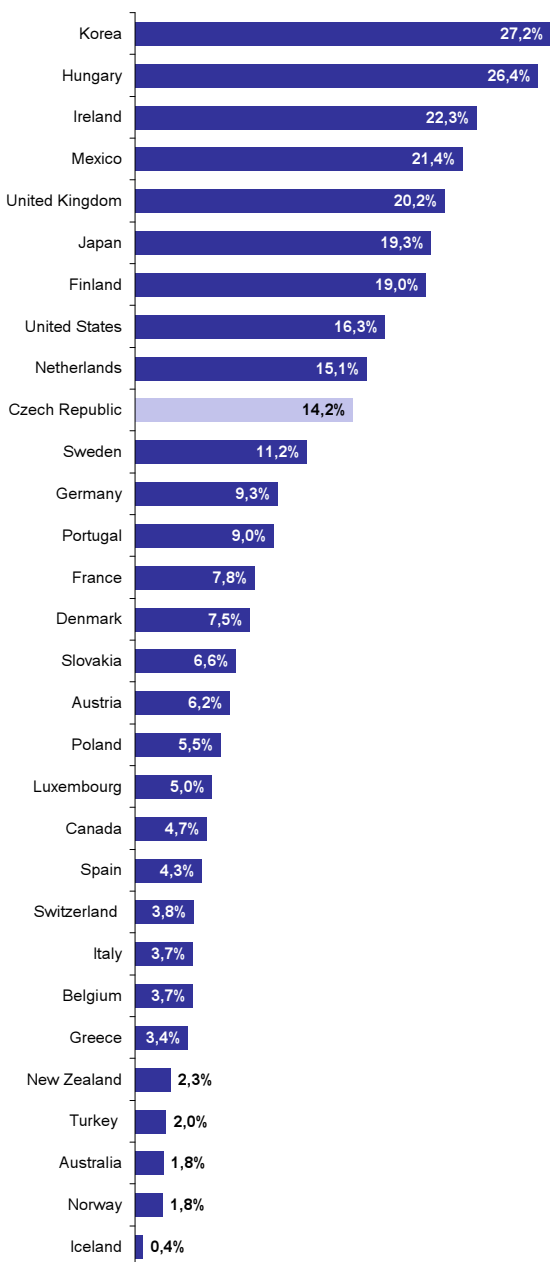
Figure D3 ICT goods exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Figure D4 ICT goods exports, 2006
(as percentage of total exports)



Source: OECD, International trade (ICT, MEI)

D ICT International Trade

Table D2 ICT goods imports to the CR

	CZK million		
	2006	2007	2008
Total	285 864	346 879	343 949
Communication equipment	21 571	37 820	39 062
Computers and related equipment	132 694	159 585	148 159
Consumer electronics	29 003	40 201	43 634
Electronic components and ICT parts n.e.	102 597	109 273	113 094

Figure D5 ICT goods imports

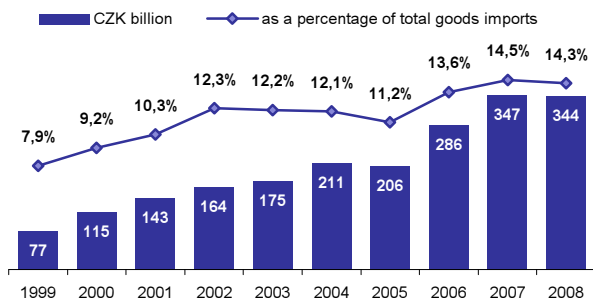


Figure D6 ICT goods imports by categories

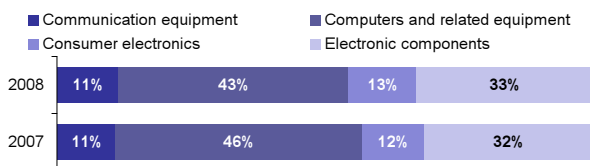
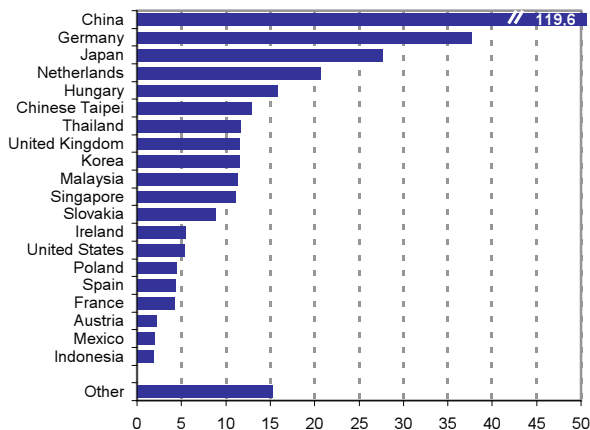


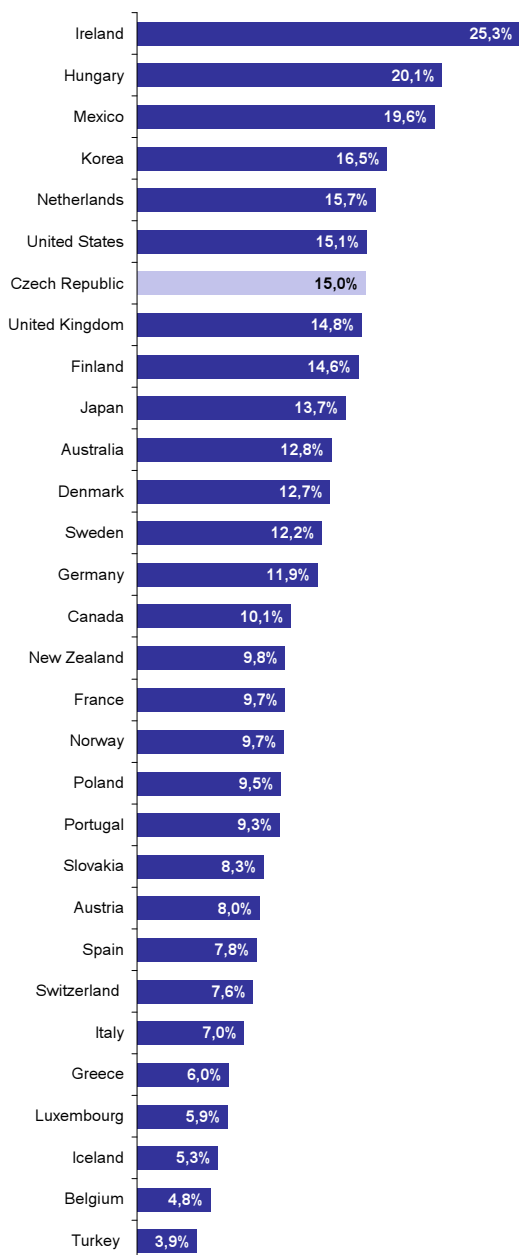
Figure D7 ICT goods imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

**Figure D8 ICT goods imports, 2006
(as percentage of total imports)**



Source: OECD, *International trade (ICT, MEI)*

D ICT International Trade

Table D3 Communication equipment exports from the CR

	CZK million		
	2006	2007	2008
Total	16 401	46 994	52 170
Mobile phones		9 998	22 071
Telecommunication equipment		27 837	23 315
Parts of telecommunication equipment		2 654	2 191
Other communication equipment		6 505	4 593

Figure D9 Communication equipment exports

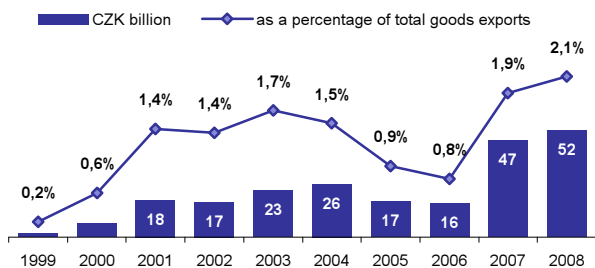


Figure D10 Communication equipment exports by categories

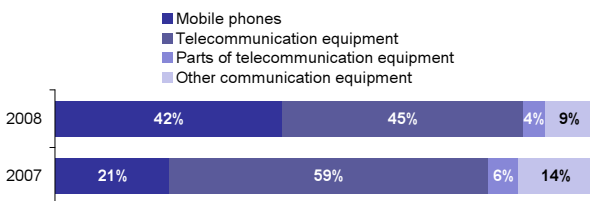
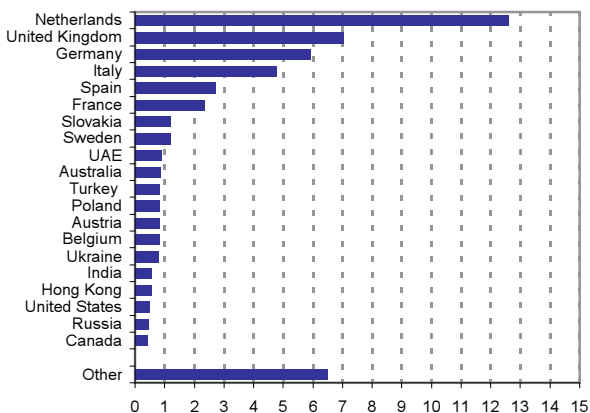


Figure D11 Communication equipment exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D4 Communication equipment imports from the CR

	CZK million		
	2006	2007	2008
Total	21 571	37 820	39 062
Mobile phones		15 718	20 870
Telecommunication equipment		12 639	10 610
Parts of telecommunication equipment		5 570	5 222
Other communication equipment		3 893	2 360

Figure D12 Communication equipment imports

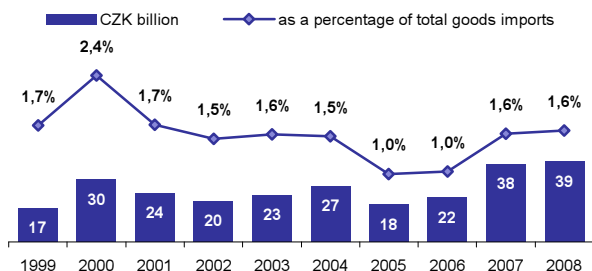


Figure D13 Communication equipment imports by categories

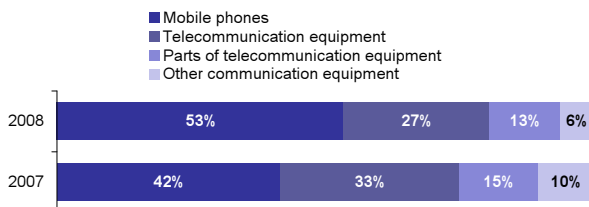
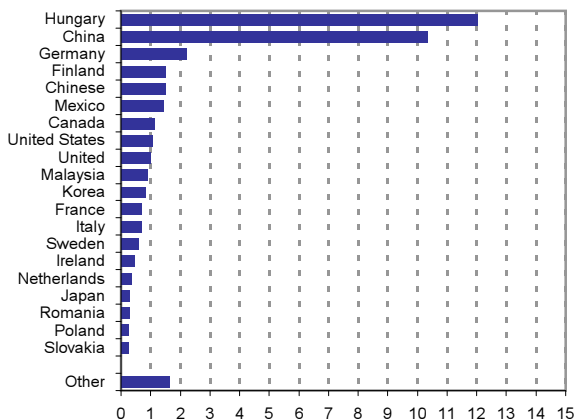


Figure D14 Communication equipment imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D5 Computers and related equipment exports from the CR

CZK million

	2006	2007	2008
Total	163 741	181 150	172 318
Portable computers and PDA	4 777	8 810	10 538
Other computers	94 225	92 207	84 414
Input and output PC peripherals*	.	18 654	19 331
Other parts and accessories of comp.**	.	61 479	58 035

*Keyboards, PC mice, PC printers, scanners, monitors etc.

**Fixed and removable media storage units; sound, video, network and similiar PCs cards and other parts and accessories of computers

Figure D15 Computers and related equipment exports

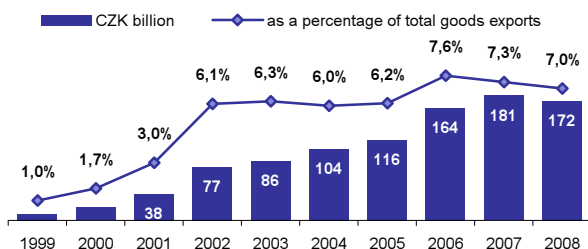


Figure D16 Computers and related equipment exports by categories

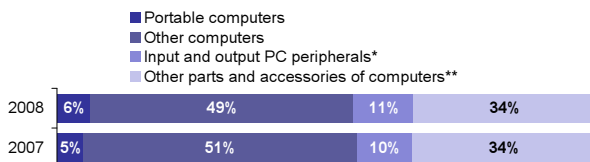
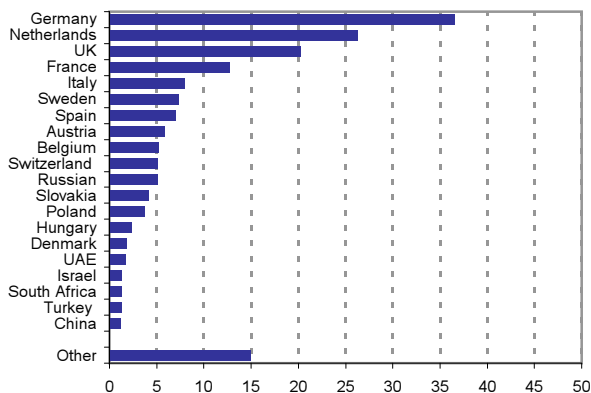


Figure D17 Computers and related equipment exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D6 Computers and related equipment imports from the CR

CZK million

	2006	2007	2008
Total	132 694	159 585	148 159
Portable computers and PDA	12 180	17 360	18 313
Other computers	10 353	11 505	8 908
Input and output PC peripherals*		21 356	17 676
Other parts and accessories of comp.**		109 364	103 262

*Keyboards, PC mice, PC printers, scanners, monitors etc.

**Fixed and removable media storage units; sound, video, network and similiar PCs cards and other parts and accessories of computers

Figure D18 Computers and related equipment imports

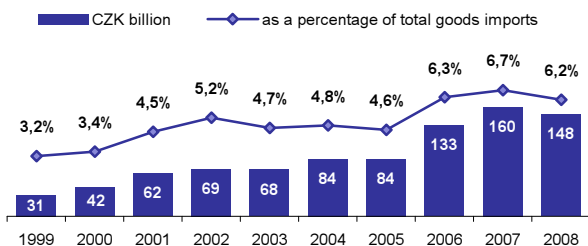


Figure D19 Computers and related equipment imports by categories

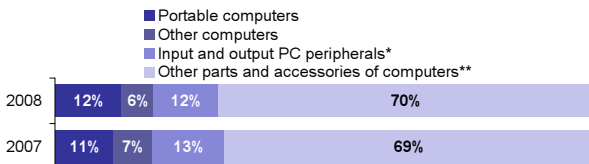
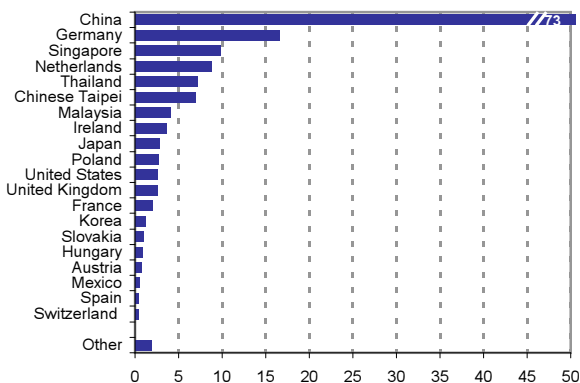


Figure D20 Computers and related equipment imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D7 Consumer electronics exports from the CR

CZK million

	2006	2007	2008
Total	61 137	82 769	91 781
Radio and TV receivers	52 185	63 058	67 919
Television receivers	42 726	50 981	55 779
Radio receivers - for motor vehicles	8 721	10 709	10 329
Radio receivers - others	738	1 368	1 812
Sound, video and image recording and reproducing apparatus	5 702	7 358	10 800
Digital cameras and camcorders	2 464	3 420	4 032
Video and DVD recorders	1 011	1 105	3 719
Others**	2 227	2 833	3 049
Video games consoles	394	2 273	466
Other consumer electronics equipment*	2 856	10 080	12 597

* Monitors, microphones, loudspeakers, unrecorded media etc.

** Sound recording and reproducing apparatus

Figure D21 Consumer electronics exports

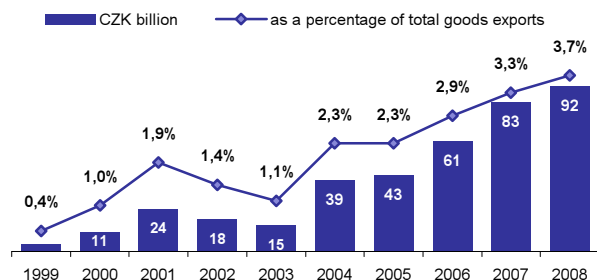
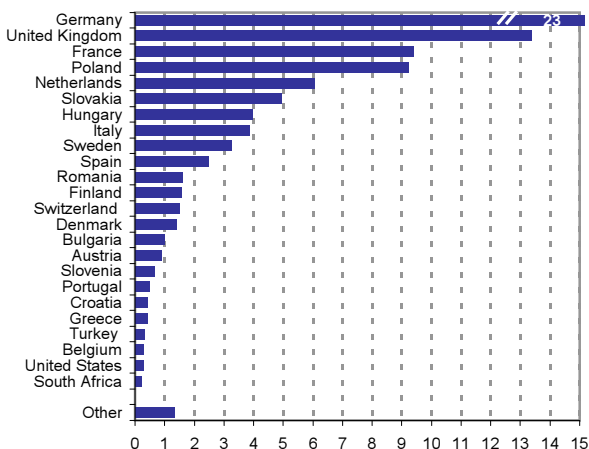


Figure D22 Consumer electronics exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D8 Consumer electronics imports to the CR

CZK million

	2006	2007	2008
Total	29 003	40 201	43 634
Radio and TV receivers	11 080	16 623	20 235
Television receivers	8 523	12 314	16 357
Radio receivers - for motor vehicles	1 129	2 558	2 191
Radio receivers - others	1 428	1 751	1 687
Sound, video and image recording and reproducing apparatus	10 586	12 131	11 998
Digital cameras and camcorders	5 831	6 694	6 663
Video and DVD recorders	2 467	2 884	2 722
Other**	2 288	2 553	2 613
Video games consoles	435	1 265	735
Other consumer electronics equipment*	6 902	10 181	10 666

* Monitors, microphones, loudspeakers, unrecorded media etc.

** Sound recording and reproducing apparatus

Figure D23 Consumer electronics imports

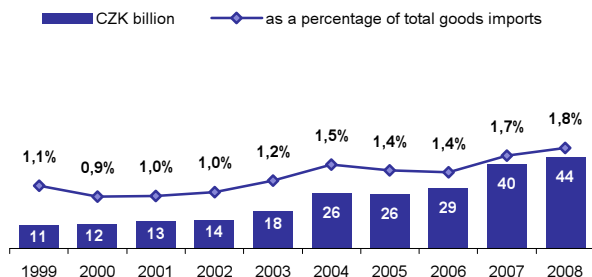
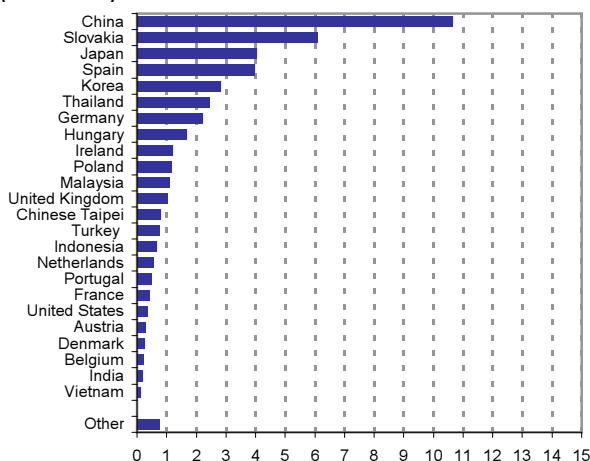


Figure D24 Consumer electronics imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D9 Electronic components and ICT parts n.e.s. exports from the CR

	CZK million		
	2006	2007	2008
Total	36 436	35 111	43 946
Diodes, transistors and other semiconductors devices		9 405	15 062
Electronic integrated circuits		13 144	14 138
Processors and controllers		8 992	10 822
Memories		1 892	1 680
Other integrated circuits and their parts		2 260	1 636
Printed circuits		3 275	3 253
Other electronic components and ICT parts		9 288	11 494

* Valves and tubes, smart cards and other electronic components and parts mainly for consumer electronics

n.e.s. - not else specified

Figure D25 Electronic components and ICT parts n.e.s. exports

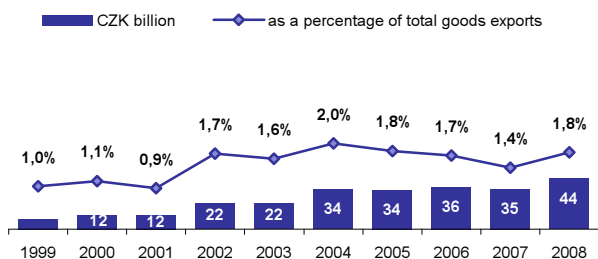
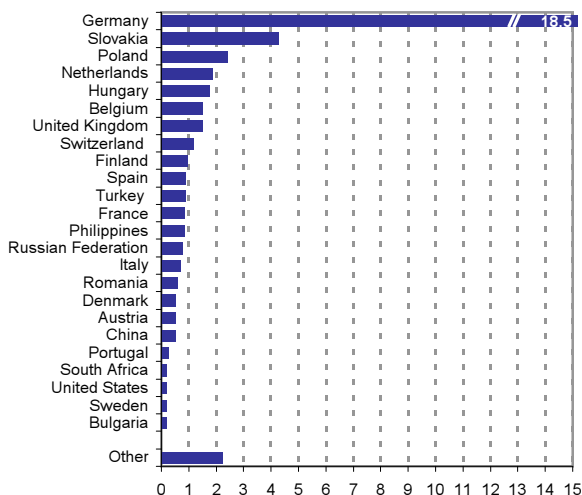


Figure D26 Electronic components and ICT parts n.e.s. exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D10 Electronic components and ICT parts n.e.s. imports to the CR

CZK million

	2006	2007	2008
Total	102 597	109 273	113 094
Diodes, transistors and other semiconductors devices		10 385	17 279
Electronic integrated circuits		35 601	31 950
Processors and controllers		26 373	25 003
Memories		5 040	3 418
Other integrated circuits and their parts		4 189	3 529
Printed circuits		10 535	9 209
Other electronic components and ICT parts		52 753	54 655

* Valves and tubes, smart cards and other electronic components and parts mainly for consumer electronics

n.e.s. - not else specified

Figure D27 Electronic components and ICT parts n.e.s. imports

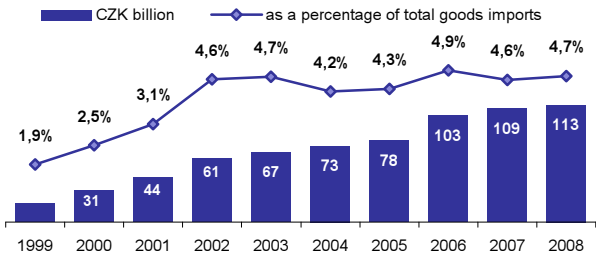
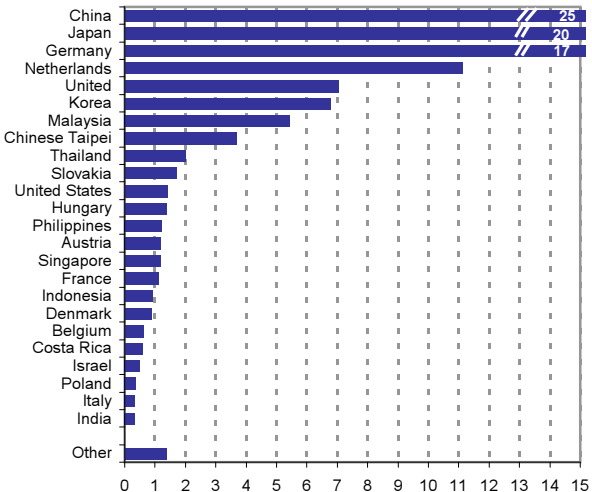


Figure D28 Electronic components and ICT parts n.e.s. imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, International trade database

D ICT International Trade

Table D11 ICT services exports from the CR

	CZK million		
	2006	2007	2008
Total	28 429	23 352	31 024
Telecommunications services	8 526	10 689	9 023
Computer services	19 902	12 663	22 002
To country			
EU27	20 174	16 144	22 003
Germany	8 592	4 767	9 976
Netherlands	3 185	1 896	3 006
Slovakia	1 177	2 104	2 269
United Kingdom	1 288	1 541	1 085
Ireland	1 236	1 405	1 226
Austria	1 117	1 114	1 098
Italy	562	463	304
Cyprus	332	506	523
Poland	442	605	331
France	422	427	297
Sweden	532	253	371
others	1 288	1 064	1 517
United states	1 378	1 731	1 923
Switzerland	588	1 010	1 660
Russian Federation	1 412	1 113	772
not specified	2 178	2 517	3 401
Other	2 699	837	1 265

Figure D29 ICT services exports

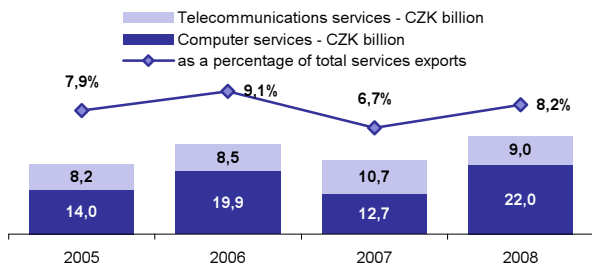
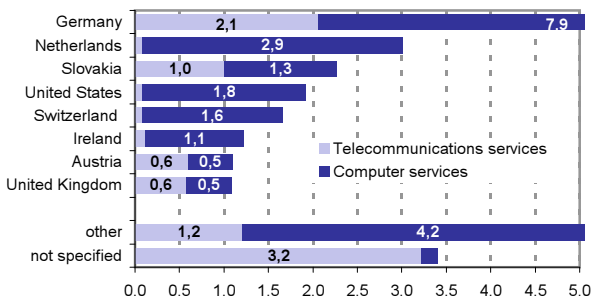


Figure D30 ICT services exports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, ZO 1-04

D ICT International Trade

Table D12 ICT services imports to the CR

	CZK million		
	2006	2007	2008
Total	19 700	21 511	22 533
Telecommunications services	7 921	8 700	8 313
Computer services	11 779	12 811	14 220
From country			
EU27	15 048	16 769	16 875
Germany	6 791	4 952	6 979
Netherlands	1 341	3 046	1 714
Slovakia	1 144	1 752	1 700
United Kingdom	1 138	1 651	1 276
Ireland	899	1 311	1 232
Austria	905	987	1 038
Italy	429	356	90
Cyprus	112	137	327
Poland	366	516	631
France	488	620	398
Sweden	461	347	620
others	975	1 093	870
United states	1 341	1 068	1 228
Switzerland	630	646	710
Russian Federation	34	287	231
not specified	1 775	2 059	3 032
Other	872	683	458

Figure D31 ICT services imports

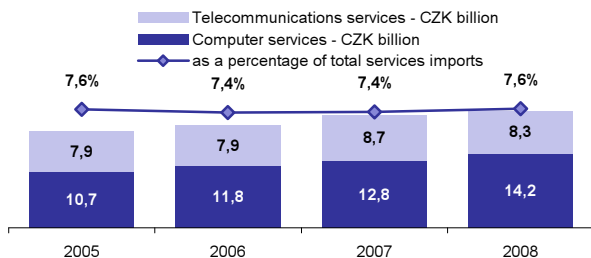
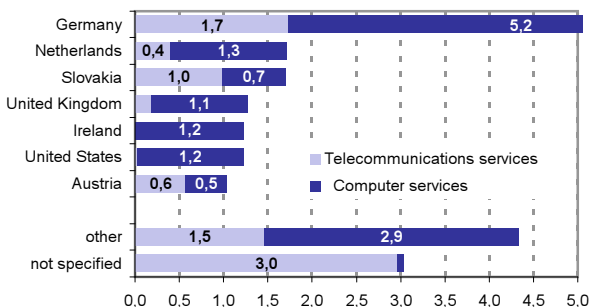


Figure D32 ICT services imports by countries, 2008 (CZK billion)



Source: Czech Statistical Office, ZO 1-04

D ICT International Trade

Table D13 Telecommunications services exports from the CR

CZK million

	2006	2007	2008
Total	8 526	10 689	9 023
thereof from foreign affiliates	3 548	10 458	8 695
Size class of enterprises			
Small enterprises (0-49)	614	654	984
Medium enterprises (50-249)	554	989	341
Large enterprises (250+)	7 358	9 047	7 698
To country			
Germany	1 930	2 268	2 058
Slovakia	541	1 251	1 000
United Kingdom	730	1 093	580
Austria	438	466	594
Netherlands	498	589	80
United States	119	253	84
Switzerland	266	447	79
Russian Federation	119	221	185
Poland	309	394	143
not specified	2 078	2 399	3 221
Other	1 500	1 308	998

Figure D33 Telecommunications services exports

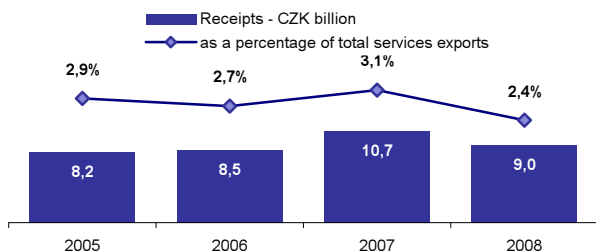
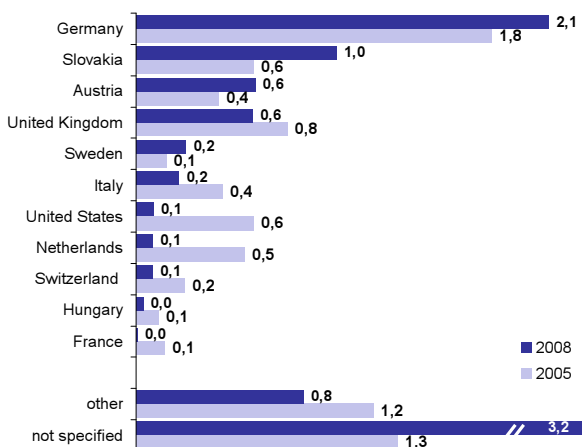


Figure D34 Telecommunications services exports (CZK billion)



Source: Czech Statistical Office, ZO 1-04

D ICT International Trade

Table D14 Telecommunications services imports to the CR

CZK million

	2006	2007	2008
Total	7 921	8 700	8 313
thereof to foreign affiliates	2 903	8 612	8 245
Size class of enterprises			
Small enterprises (0-49)	390	321	451
Medium enterprises (50-249)	553	488	219
Large enterprises (250+)	6 977	7 890	7 643
From country			
Germany	1 617	1 435	1 739
Slovakia	882	1 388	985
United Kingdom	246	258	187
Austria	581	616	569
Netherlands	411	584	396
United States	137	253	19
Switzerland	222	216	234
Russian Federation	28	54	13
Poland	291	388	552
not specified	1 734	1 952	2 962
Other	1 771	1 556	656

Figure D35 Telecommunications services imports

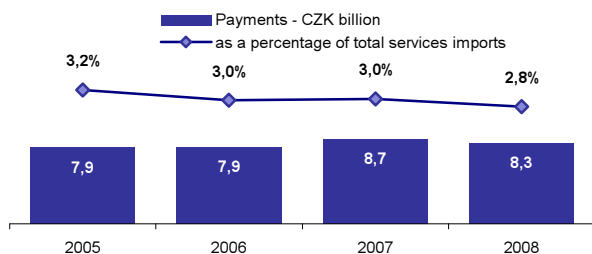
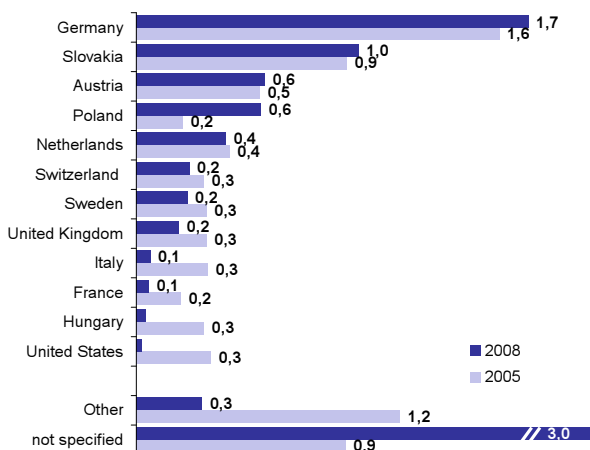


Figure D36 Telecommunications services imports (CZK billion)



Source: Czech Statistical Office, ZO 1-04

D ICT International Trade

Table D15 Computer services exports from the CR

CZK million

	2006	2007	2008
Total	19 902	12 663	22 002
thereof from foreign affiliates	18 217	10 687	19 013
Size class of enterprises			
Small enterprises (0-49)	882	1 434	2 397
Medium enterprises (50-249)	6 100	4 982	5 119
Large enterprises (250+)	12 920	6 247	14 486
To country			
Germany	6 662	2 499	7 918
Slovakia	636	854	1 269
United Kingdom	558	448	505
Austria	679	647	504
Netherlands	2 688	1 306	2 926
United States	1 259	1 478	1 839
Switzerland	322	562	1 581
Russian Federation	1 293	893	587
Ireland	1 218	1 298	1 113
not specified	100	119	180
Other	4 487	2 558	3 579

Figure D37 Computer services exports

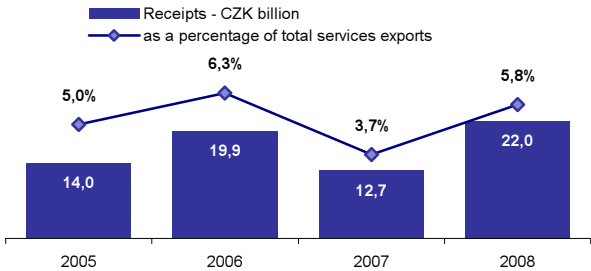
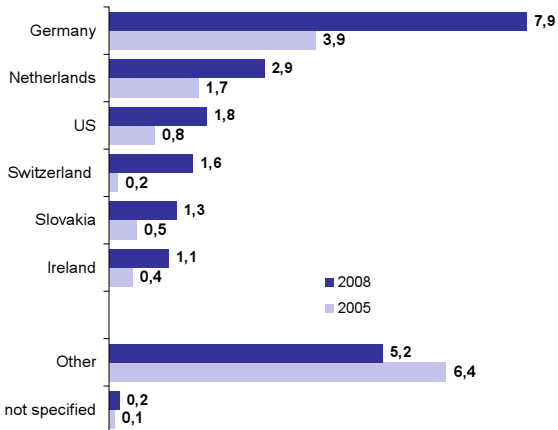


Figure D38 Computer services exports by countries (CZK bill)



Source: Czech Statistical Office, ZO 1-04

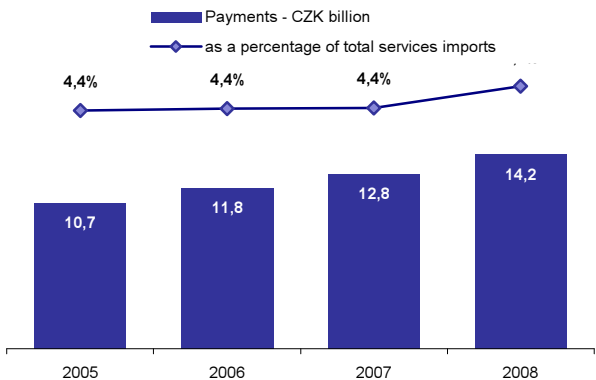
D ICT International Trade

Table D16 Computer services imports to the CR

CZK million

	2006	2007	2008
Total	11 779	12 811	14 220
thereof to foreign affiliates	10 545	11 940	12 871
Size class of enterprises			
Small enterprises (0-49)	1 122	1 891	1 903
Medium enterprises (50-249)	2 261	2 658	2 452
Large enterprises (250+)	8 396	8 262	9 865
Industry (CZ-NACE)			
Manufacturing, total	2 329	2 825	2 766
Food and Beverages industry	222	265	238
Rubber and Plastic industry	44	45	143
Engineering industry	185	220	213
Electrical industry	233	296	295
ICT manufacturing	189	557	338
Automotive industry	881	792	931
Other manufacturing	576	651	608
Wholesale and retail trade	2 122	2 244	3 044
Transport and storage	259	185	219
Telecommunications	426	493	524
Computer and related activities	6 169	5 884	6 924
Other business activities	354	1 020	488
Other industries	119	160	255
From country			
Germany	5 174	3 517	5 240
Slovakia	262	363	716
United States	892	1 393	1 089
Austria	324	371	468
Netherlands	930	2 463	1 318
United States	1 204	815	1 209
Switzerland	407	431	476
Russian federation	6	233	218
Ireland	894	1 298	1 230
not specified	42	107	69
Other	1 645	1 821	2 188

Figure D39 Computer services imports



Source: Czech Statistical Office, ZO 1-04

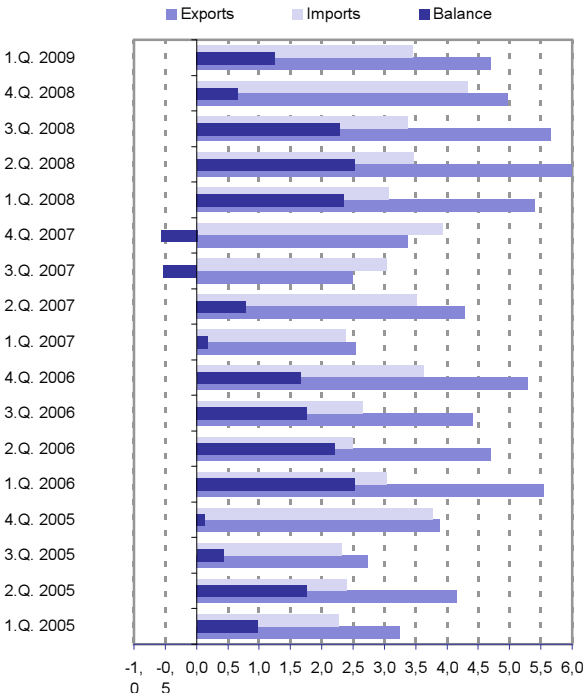
D ICT International Trade

Table D17 International trade in computer services in the CR

CZK million

Year/quarter	Exports	Imports	Balance
2005 - I. quarter	3 232	2 263	969
2005 - II. quarter	4 145	2 388	1 757
2005 - III. quarter	2 727	2 310	418
2005 - IV. quarter	3 884	3 756	128
2005 - I.-IV. quarter	13 989	10 717	3 272
2006 - I. quarter	5 535	3 018	2 517
2006 - II. quarter	4 689	2 484	2 204
2006 - III. quarter	4 402	2 648	1 755
2006 - IV. quarter	5 276	3 630	1 647
2006 - I.-IV. quarter	19 902	11 779	8 123
2007 - I. quarter	2 535	2 368	167
2007 - II. quarter	4 279	3 499	779
2007 - III. quarter	2 493	3 018	-525
2007 - IV. quarter	3 357	3 926	-570
2007 - I.-IV. quarter	12 663	12 811	-148
2008 - I. quarter	5 398	3 054	2 344
2008 - II. quarter	5 978	3 467	2 511
2008 - III. quarter	5 654	3 375	2 279
2008 - IV. quarter	4 971	4 324	648
2008 - I.-IV. quarter	22 002	14 220	7 782
2009 - I. quarter	4 686	3 446	1 241

Figure D40 International trade in computer services (CZK bill)



Source: Czech Statistical Office, ZO 1-04

E ICT Sector

In general, the term ICT sector (industries whose principal production is ICT goods and services) includes a combination of ICT manufacturing and ICT services industries, which are associated with the production, and/or distribution of information and communication technologies and a provision of related services.

New ICT sector definition (OECD 2007) is based on the following guiding principles to identify ICT industries (economic activities): "A candidate industry must be primarily intended to fulfill the function of information processing and communication by electronic means including transmission and display" (narrowed definition compared to the previous one from 2002).

The ICT sector classification (list of ICT industries) by CZ-NACE:

ICT manufacturing:

- Manufacture of office machinery and computers (CZ NACE 30)
- Manufacture of radio, television and communication equipment and apparatus (CZ NACE 32)
 - Manufacture of electronic valves and tubes and other electronic components (CZ NACE 321)
 - Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy (CZ NACE 322)
 - Manufacture of television and radio receivers, sound or video recording (CZ NACE 323)

Note: New data published in these tables for manufacturing industries are not comparable with the previous ones based on the 2002 OECD ICT manufacturing definition. The scope of ICT manufacturing narrowed compared with the 2003. It does not include now following industries: Manufacture of instruments & appliances for measuring, checking, testing (CZ NACE 332) and Manufacture of industrial process control equipment (CZ NACE 333).

ICT services (intangible services):

- Telecommunications (CZ NACE 642)
- Computer and related services (CZ NACE 72)
 - Hardware consultancy (CZ NACE 721)
 - Software consultancy and supply (CZ NACE 722)
 - Data processing (CZ NACE 723)
 - Data base activities (CZ NACE 724)
 - Maintenance and repair of office, accounting and computing machinery (CZ NACE 725)
 - Other computer related activities (CZ NACE 726)

The SBS (Structural Business Survey) database was used as a data source for the ICT sector in the Czech Republic.

The STAN database maintained by OECD was used as a data source for the international comparison.

www.oecd.org/sti/stan

Additional data and metadata on ICT sector statistics are available on the following dedicated website (temporarily only in Czech):

http://www.czso.cz/csu/redakce.nsf/i/ict_sektor

E ICT sector

Table E1 Employment in ICT sector in the CR

	persons		
	2005	2006	2007
Total	114 367	122 498	134 486
ICT manufacturing	40 426	43 274	50 175
Manuf. of computers and related equip.	9 037	10 364	9 355
Manuf. of other ICT equip. and comp.	31 389	32 910	40 820
ICT services	73 941	79 225	84 310
Telecommunications	22 701	23 747	22 963
Computer and related activities	51 240	55 478	61 347

Figure E1 Employment in ICT sector

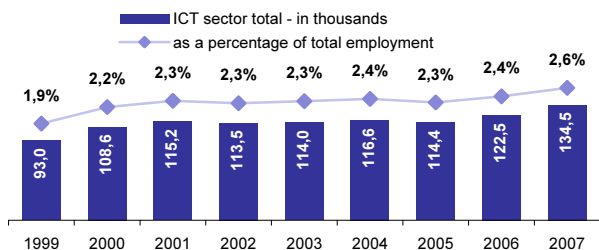


Figure E2 Employment in ICT manufacturing

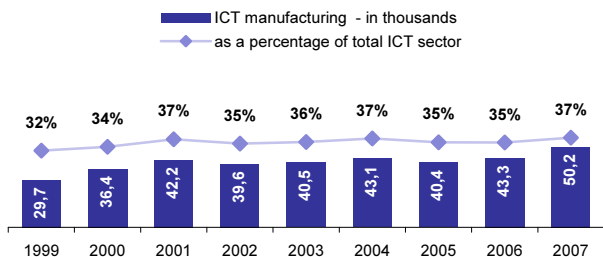
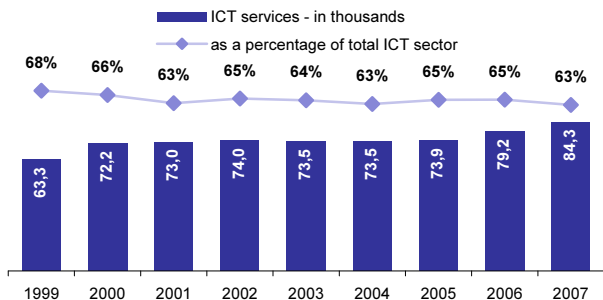


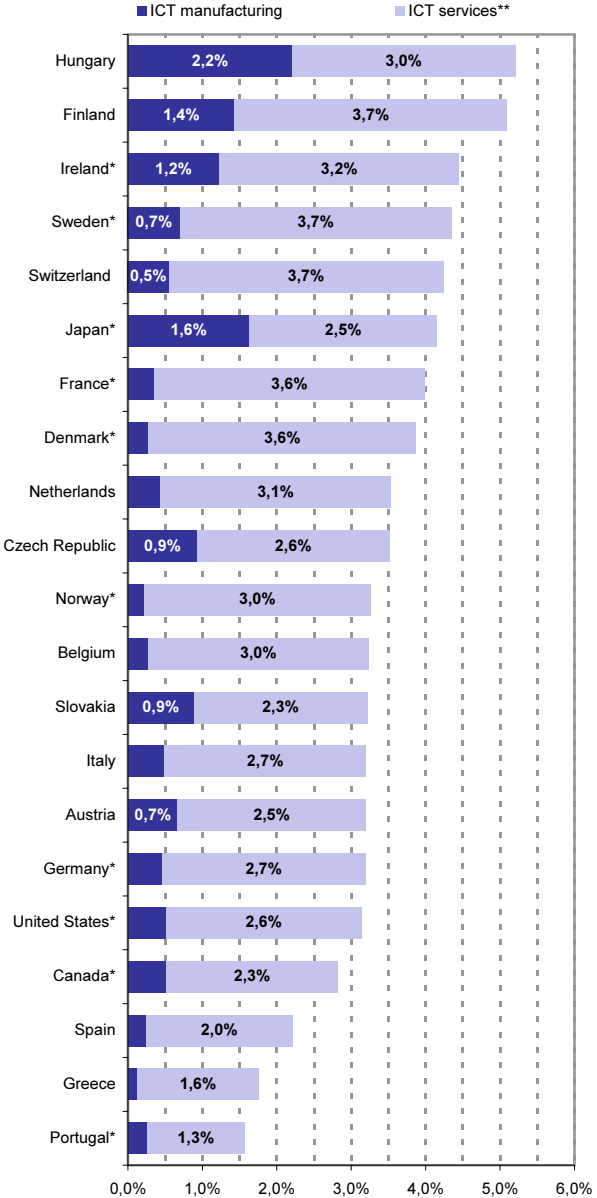
Figure E3 Employment in ICT services



Source: CZSO, Structural Business Survey

E ICT sector

**Figure E4 Employment in ICT sector, 2007
(as a percentage of total employment)**



* year 2006

** Includes also CZ-NACE 641 - Post and courier activities

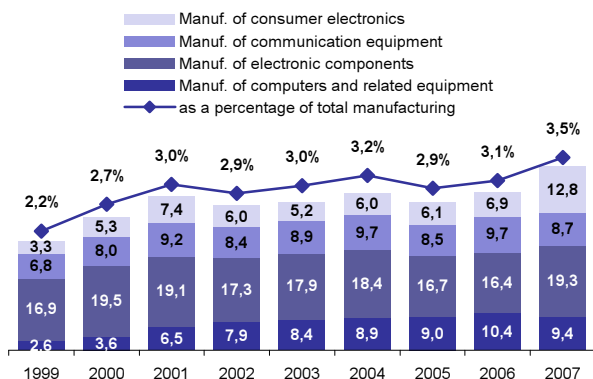
Source: OECD, STAN database

E ICT sector

Table E2 Employment in ICT manufacturing in the CR

	2005	2006	2007
Total	40 426	43 274	50 175
thereof foreign affiliation	25 541	29 617	33 891
Industry (CZ-NACE)			
Manuf. of computers and related equip.	9 037	10 364	9 355
Manuf. of other ICT equip. and componen	31 389	32 910	40 820
M. of electronic components	16 713	16 404	19 296
M. of communication equipment	8 547	9 650	8 730
M. of consumer electronics	6 129	6 856	12 794
Legal form			
Private entrepreneurs	3 901	4 076	4 908
Business companies	36 525	39 198	45 267
Size class of enterprises			
Small enterprises (0-49)	8 450	9 108	10 180
Medium enterprises (50-249)	6 682	7 971	8 038
Large enterprises (250+)	25 294	26 195	31 957
Type of employment			
Employees	36 649	39 619	45 303
Self-employed	3 777	3 655	4 872
Regions - NUTS 3 (only employees)			
Praha	3 769	4 513	5 142
Středočeský	2 931	1 740	3 982
Jihočeský	2 915	1 483	2 711
Plzeňský	3 325	4 495	3 403
Karlovarský	1 227	476	892
Ústecký	733	796	1 403
Liberecký	810	1 046	791
Královéhradecký	1 818	1 524	2 696
Pardubický	7 786	8 214	9 317
Vysočina	469	629	1 085
Jihomoravský	4 549	6 902	7 271
Olomoucký	944	1 776	614
Zlínský	4 602	4 254	3 936
Moravskoslezský	758	1 772	2 061

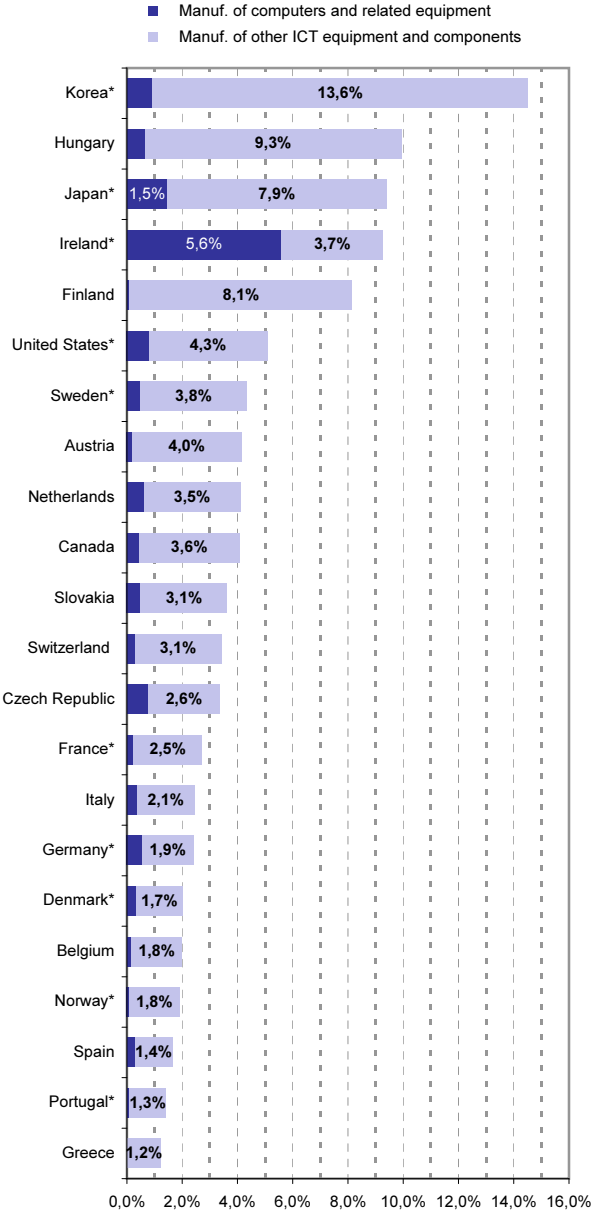
Figure E5 Employment in ICT manufacturing, (thousands, %)



Source: CZSO, Structural Business Survey

E ICT sector

Figure E6 Employment in ICT manufacturing, 2007
(as a percentage of total employment in manufacturing)



* year 2006

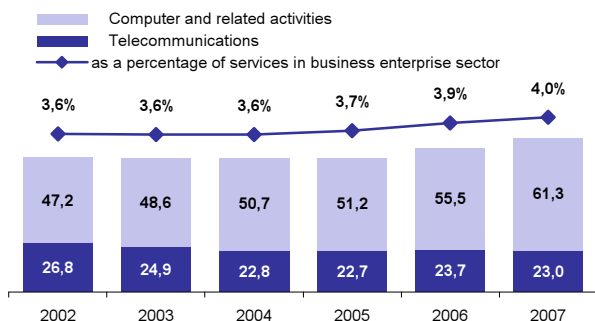
Source: OECD, STAN database

E ICT sector

Table E3 Employment in ICT services in the CR

	persons		
	2005	2006	2007
Total	73 941	79 225	84 310
thereof foreign affiliation	20 707	36 160	38 721
Industry (CZ-NACE)			
Telecommunications	22 701	23 747	22 963
Computer and related activities	51 240	55 478	61 347
Hardware consultancy	2 729	3 021	2 542
Software consultancy and supply	37 131	40 920	45 375
Data processing	6 478	6 707	7 482
Data base activities	751	797	1 419
Repair of computing machinery	3 541	3 663	4 217
Other computer related activities	610	370	311
Legal form			
Private entrepreneurs	10 136	9 732	10 314
Business companies	63 805	69 492	73 996
Size class of enterprises			
Small enterprises (0-49)	35 607	36 154	36 945
Medium enterprises (50-249)	13 713	15 768	17 805
Large enterprises (250+)	24 621	27 303	29 560
Type of employment			
Employees	61 284	66 520	71 467
Self-employed	12 657	12 705	12 843
Regions - NUTS 3 (only employees in Computer and related activities)			
Praha	18 504	20 306	23 339
Středočeský	1 580	1 808	1 748
Jihočeský	1 754	1 706	2 390
Plzeňský	1 576	1 547	1 754
Karlovarský	157	134	169
Ustecký	1 278	1 177	1 099
Liberecký	720	786	890
Královéhradecký	1 269	1 398	1 573
Pardubický	1 212	1 236	1 342
Vysočina	579	684	755
Jihomoravský	5 163	6 687	8 186
Olomoucký	1 322	1 277	1 627
Zlínský	1 168	1 281	1 478
Moravskoslezský	2 803	3 497	2 969

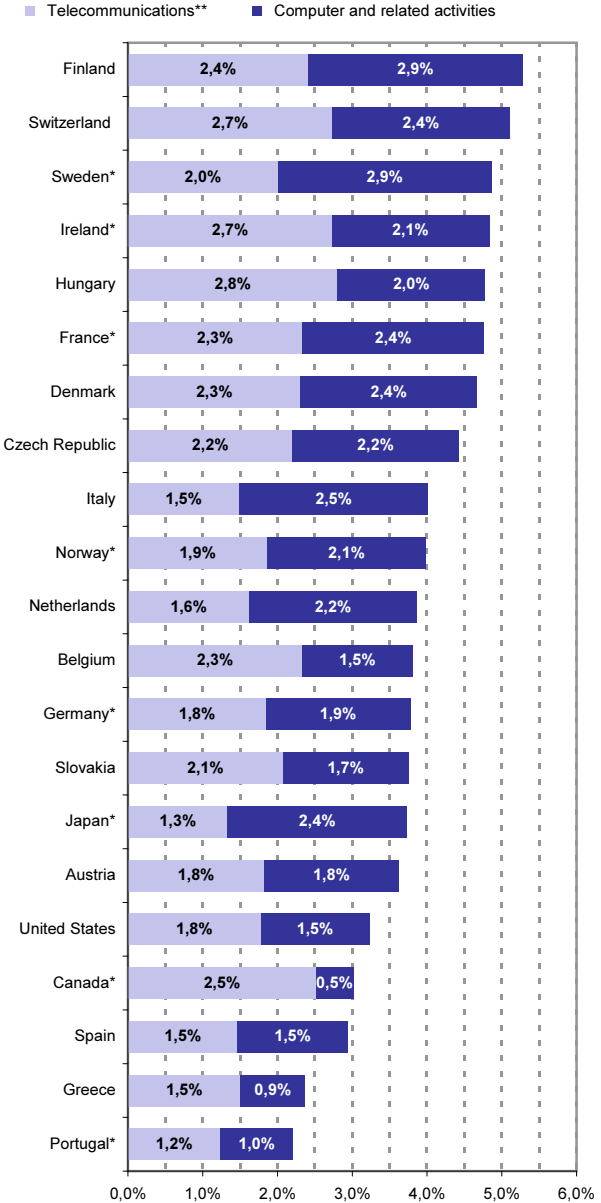
Figure E7 Employment in ICT services, (thousands, %)



Source: CZSO, Structural Business Survey

E ICT sector

**Figure E8 Employment in ICT services, 2007
(as a percentage of total employment in services)**



* year 2006

** Includes also CZ-NACE 641 - Post and courier activities

Source: OECD, STAN database

E ICT sector

Table E4 Investment in ICT sector in the CR

CZK million

	2005	2006	2007
Total	19 822	24 374	26 451
ICT manufacturing	3 679	6 908	9 791
Manuf. of computers and related equip.	546	1 253	1 133
Manuf. of other ICT equip. and comp.	3 132	5 656	8 658
ICT services	16 143	17 466	16 660
Telecommunications	12 028	13 710	12 350
Computer and related activities	4 115	3 755	4 310

Figure E9 Investment in ICT sector

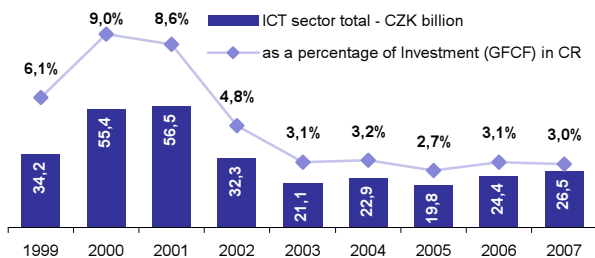


Figure E10 Investment in ICT manufacturing

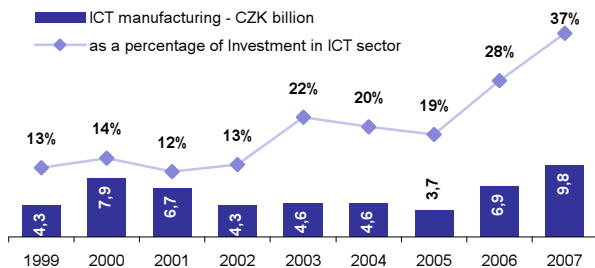
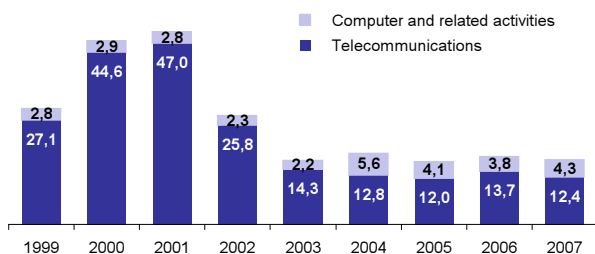


Figure E11 Investment in ICT services (CZK billion)



GFCF - Gross Fixed Capital Formation

Source: CZSO, Structural Business Survey

E ICT sector

Figure E12 Investment in ICT sector, 2007
(as a percentage of total investment in the business sector)

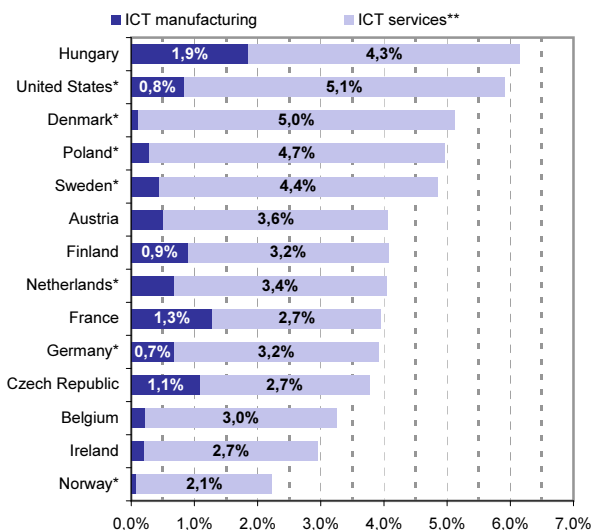
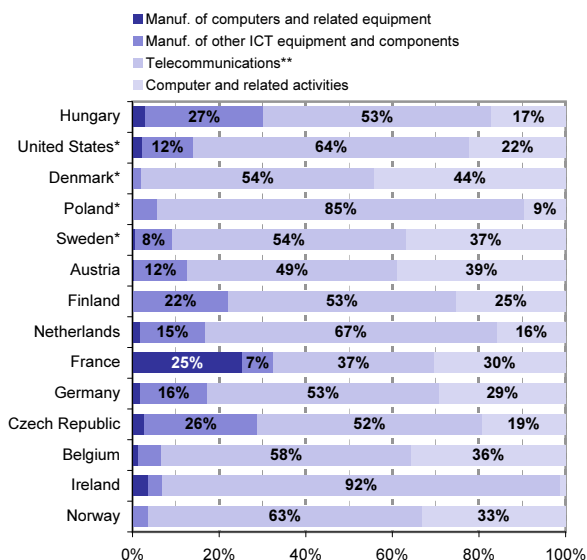


Figure E13 Investment in ICT sector by CZ-NACE, 2007



* year 2006

** Includes also CZ-NACE 641 - Post and courier activities

GFCF - Gross Fixed Capital Formation

Source: OECD, STAN database

E ICT sector

Table E5 R&D expenditures in ICT sector in the CR

CZK million

	2005	2006	2007
Total	3 860	4 340	4 552
ICT manufacturing	1 366	1 376	1 251
Manuf. of computers and related equip.	46	19	37
Manuf. of other ICT equip. and comp.	1 320	1 357	1 214
ICT services	2 494	2 964	3 301
Telecommunications	13	356	451
Computer and related activities	2 481	2 608	2 850

Figure E14 R&D expenditures in ICT sector

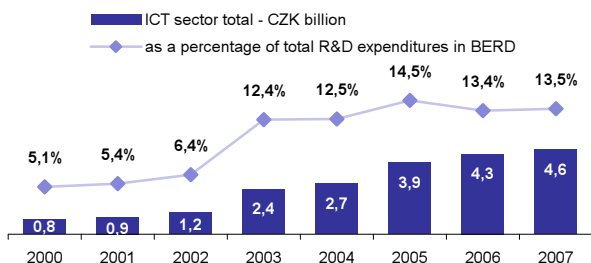


Figure E15 R&D expenditures in ICT manufacturing

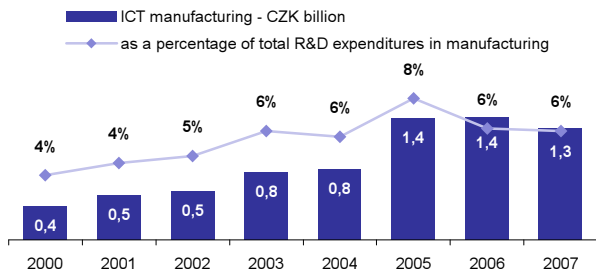
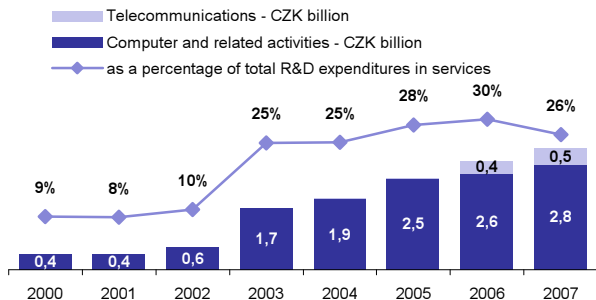


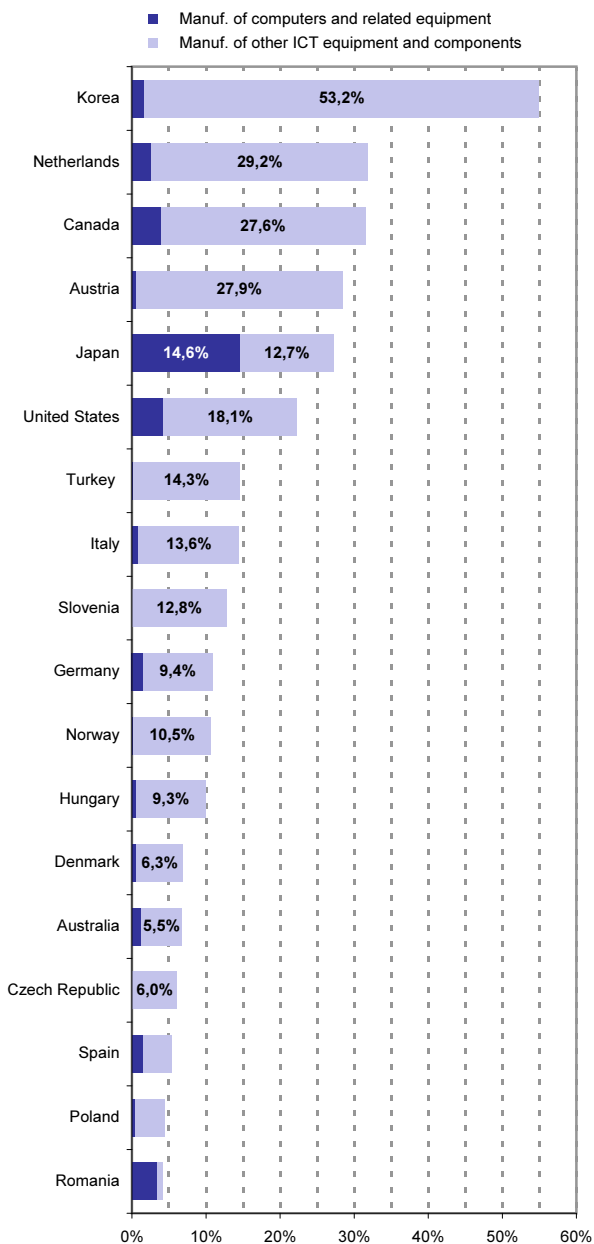
Figure E16 R&D expenditures in ICT services



Source: CZSO, R&D survey

E ICT sector

Figure E17 R&D expenditures in ICT manufacturing, 2007
(as a percentage of total R&D expenditures in manufacturing)



Source: OECD, ANBERD database 2009

E ICT sector

Table E6 Value added in ICT sector in the CR

CZK million

	2005	2006	2007
Total	124 942	141 399	153 944
ICT manufacturing	18 986	23 218	23 408
Manuf. of computers and related equip.	3 184	1 723	3 490
Manuf. of other ICT equip. and comp.	15 802	21 495	19 918
ICT services	105 956	118 180	130 536
Telecommunications	67 926	71 434	75 209
Computer and related activities	38 030	46 746	55 327

Figure E18 Value added in ICT sector

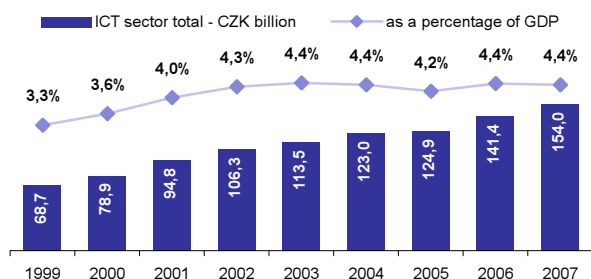


Figure E19 Value added in ICT manufacturing

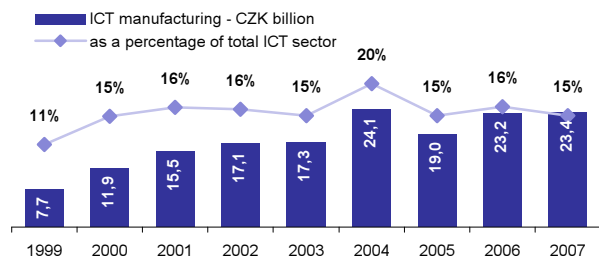
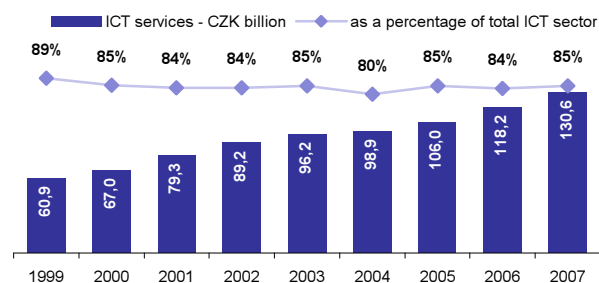


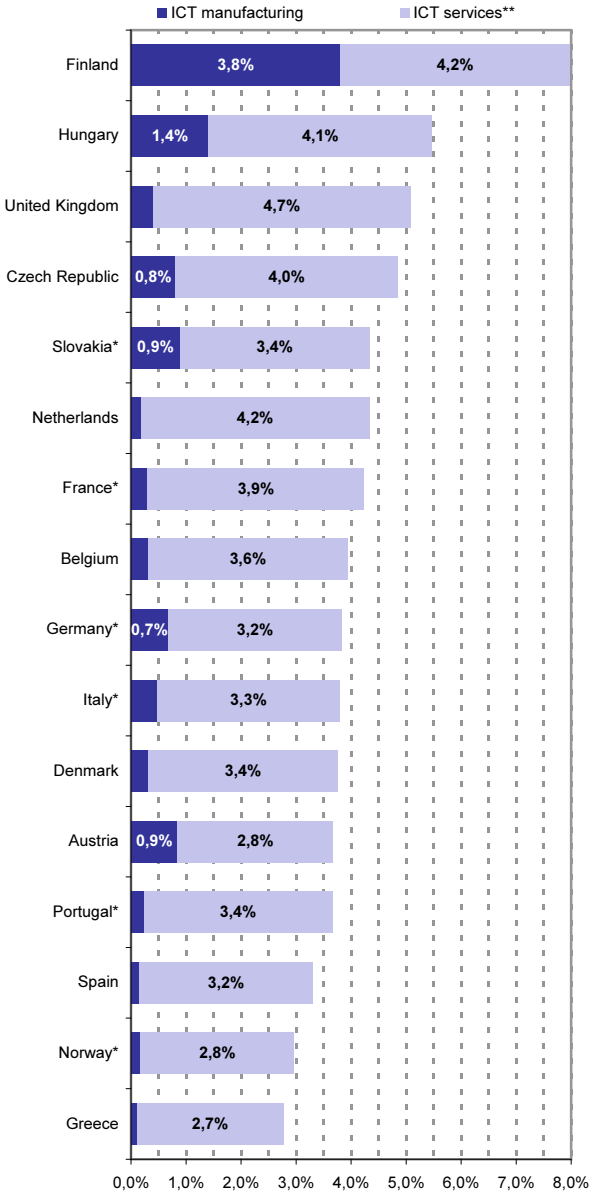
Figure E20 Value added in ICT services



Source: CZSO, Structural Business Survey

E ICT sector

**Figure E21 Value added in ICT sector, 2007
(as a percentage of GDP)**



* year 2006

** Includes also CZ-NACE 641 - Post and courier activities

Source: OECD, STAN database

E ICT sector

Table E7 Turnover in ICT sector in the CR

CZK million

	2005	2006	2007
Total	416 198	485 724	549 289
ICT manufacturing	192 837	232 135	276 319
Manuf. of computers and related equip.	103 495	116 484	124 777
Manuf. of other ICT equip. and comp.	89 343	115 650	151 542
ICT services	223 360	253 589	272 970
Telecommunications	130 783	139 051	144 400
Computer and related activities	92 577	114 538	128 570

Figure E22 Turnover in ICT sector

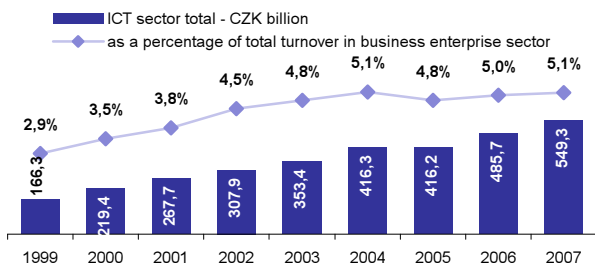


Figure E23 Turnover in ICT manufacturing

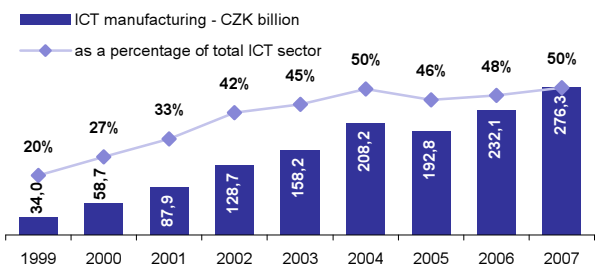
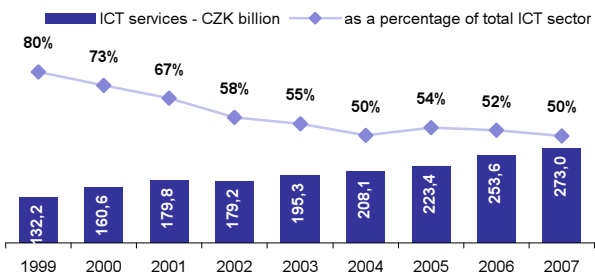


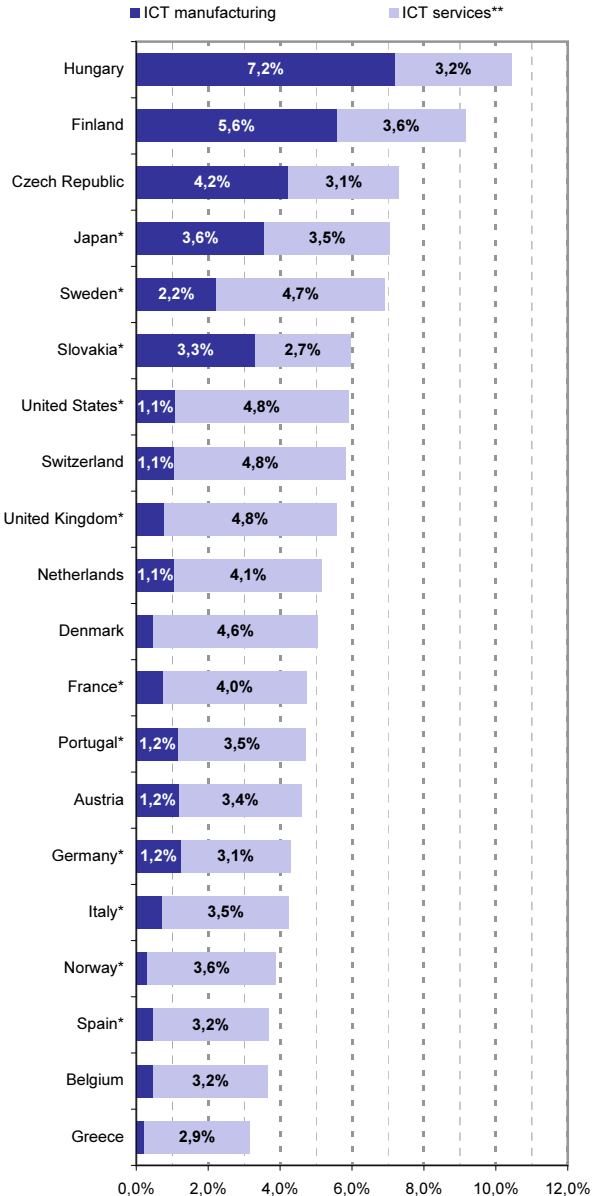
Figure E24 Turnover in ICT services



Source: CZSO, Structural Business Survey

E ICT sector

Figure E25 Production in ICT sector, 2007
(as a percentage of total production in the business sector)



* year 2006

** Includes also CZ-NACE 641 - Post and courier activities

Source: OECD, STAN database

E ICT sector

Table E8 Turnover in ICT manufacturing in the CR

CZK million

	2005	2006	2007
Total	192 837	232 135	276 319
thereof foreign affiliation	175 513	209 820	245 389
Industry (CZ-NACE)			
Manuf. of computers and related equip.	103 495	116 484	124 777
Manuf. of other ICT equipment and comp.	89 343	115 650	151 542
M. of electronic components	18 357	27 738	43 542
M. of communication equipment	36 392	33 254	23 337
M. of consumer electronics	34 593	54 659	84 663
Legal form			
Private entrepreneurs	5 036	4 738	5 402
Business companies	187 801	227 397	270 917
Size class of enterprises			
Small enterprises (0-49)	11 387	14 181	14 909
Medium enterprises (50-249)	10 352	27 975	20 010
Large enterprises (250+)	171 098	189 979	241 400

Figure E26 Turnover in ICT manufacturing (CZK billion, %)

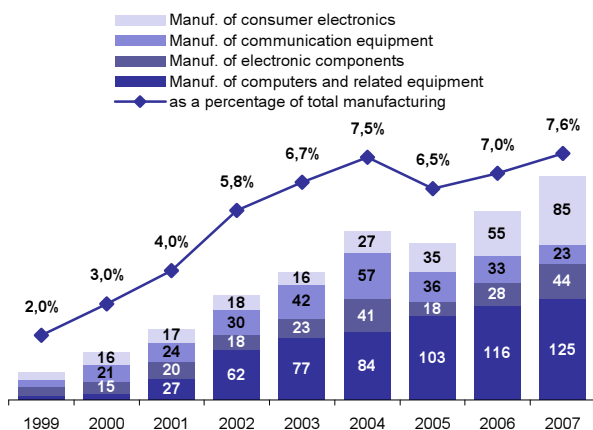
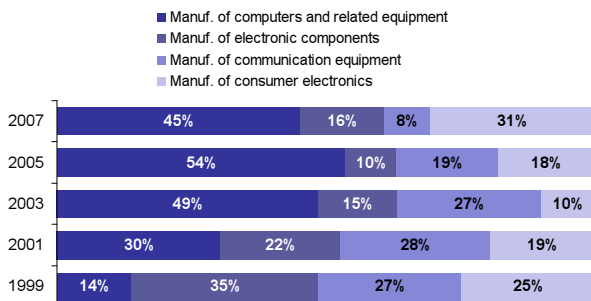


Figure E27 Turnover in ICT manufacturing by CZ-NACE



Source: CZSO, Structural Business Survey

E ICT sector

Table E9 Turnover in ICT services in the CR

CZK million

	2005	2006	2007
Total	223 360	253 589	272 970
thereof foreign affiliation	99 753	187 426	202 853
Industry (CZ-NACE)			
Telecommunications	130 783	139 051	144 400
Computer and related activities	92 577	114 538	128 570
Hardware consultancy	4 598	6 509	5 597
Software consultancy and supply	72 185	87 783	102 037
Data processing	7 654	10 739	10 677
Data base activities	934	1 026	2 185
Repair of computing machinery	6 654	8 186	7 753
Other computer related activities	553	295	320
Legal form			
Private entrepreneurs	9 247	9 437	11 245
Business companies	214 113	244 152	261 725
Size class of enterprises			
Small enterprises (0-49)	48 885	56 365	59 453
Medium enterprises (50-249)	33 946	38 415	40 119
Large enterprises (250+)	140 529	158 809	173 398

Figure E28 Turnover in ICT services (CZK billion, %)

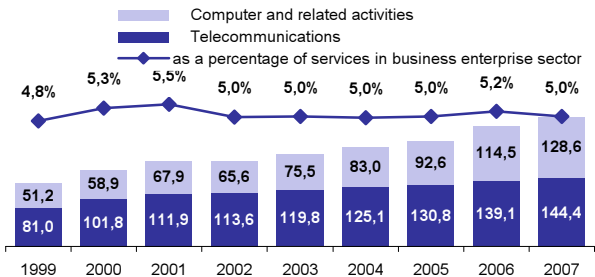
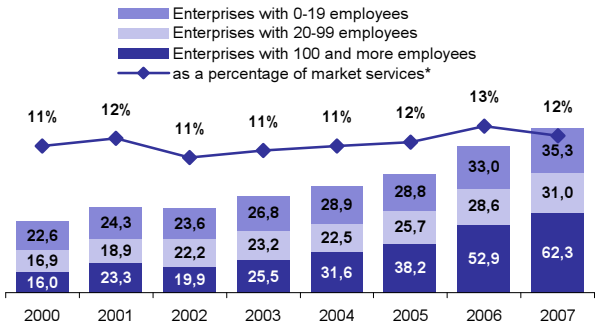


Figure E29 Turnover in Computer and related activities, (CZK billion, %)



* Includes CZ-NACE 70-93 in the Business enterprise sector

Source: CZSO, Structural Business Survey

E ICT sector

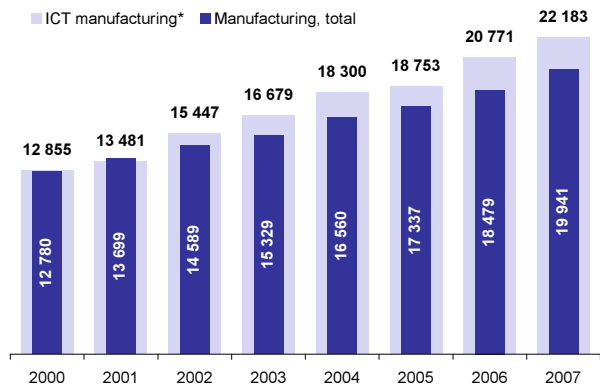
Table E10 Average monthly gross wage in ICT sector in the CR

CZK thousands

	2005	2006	2007
Manuf. of computers and related equipment	18 649	18 893	19 712
Manuf. of other ICT equip and components	18 753	20 771	22 183
Telecommunications*	23 038	24 148	25 098
Computer and related activities	34 534	36 789	39 481

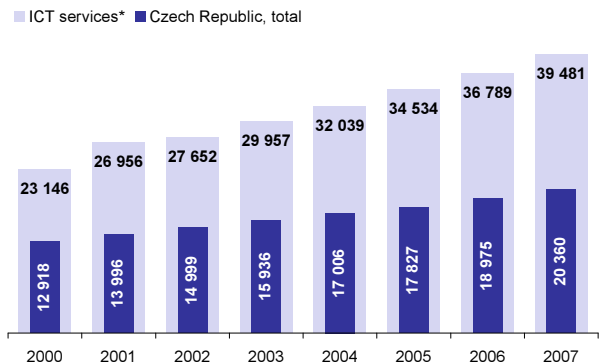
* Includes also CZ-NACE 641 - Post and courier activities

Figure E30 Average month. gross wage in ICT manuf.* (CZK)



* Includes only CZ-NACE 32 - Manufacturing of radio, TV and communication equipment

Figure E31 Average month. gross wage in ICT services* (CZK)



* Includes only CZ-NACE 72 - Computer and related activities

Source: CZSO, Structural Business Survey