

## 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](http://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](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
<b>Total</b>	<b>114 367</b>	<b>122 498</b>	<b>134 486</b>
<b>ICT manufacturing</b>	<b>40 426</b>	<b>43 274</b>	<b>50 175</b>
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
<b>ICT services</b>	<b>73 941</b>	<b>79 225</b>	<b>84 310</b>
Telecommunications	22 701	23 747	22 963
Computer and related activities	51 240	55 478	61 347

Figure E1 Employment in ICT sector

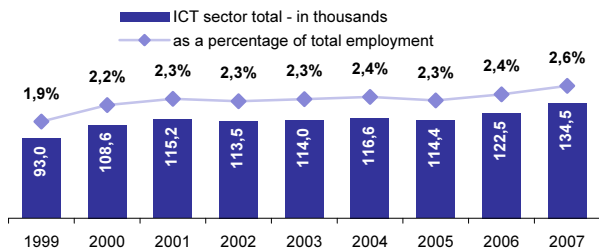


Figure E2 Employment in ICT manufacturing

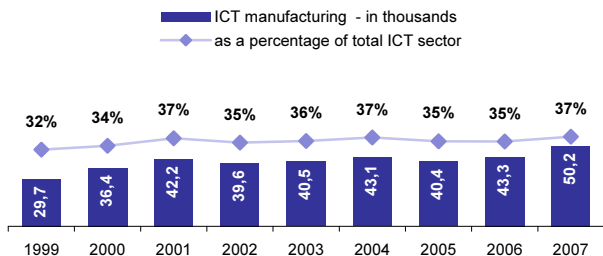
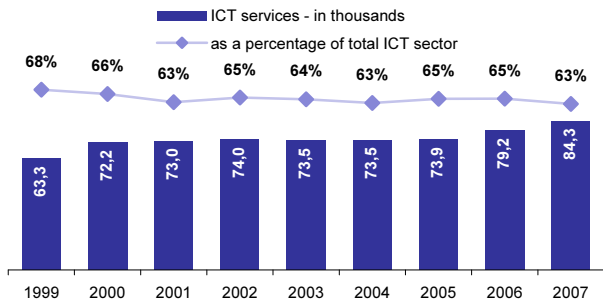
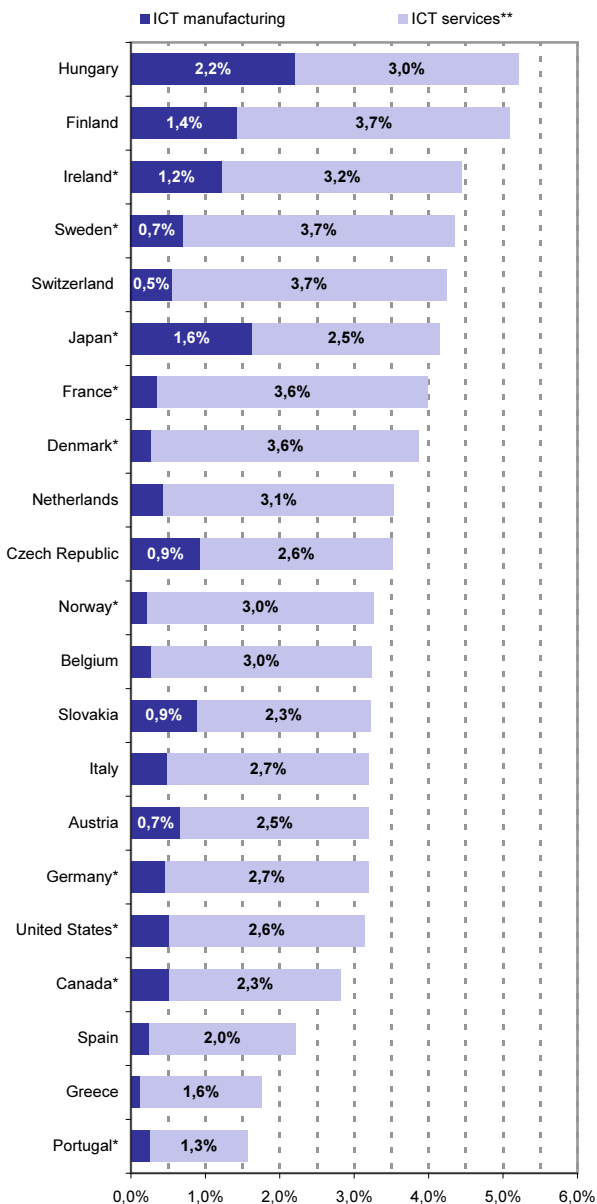


Figure E3 Employment in ICT services



## 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

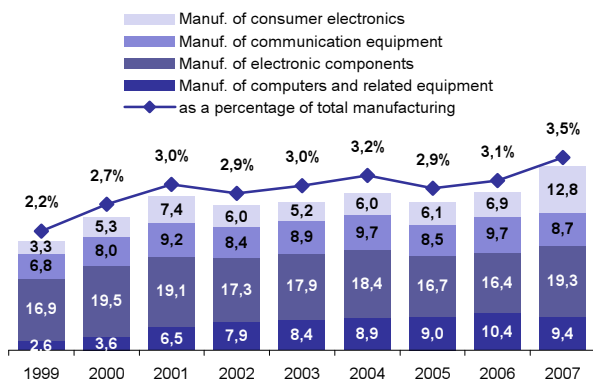
Source: OECD, STAN database

## E ICT sector

Table E2 Employment in ICT manufacturing in the CR

	2005	2006	2007
<b>Total</b>	<b>40 426</b>	<b>43 274</b>	<b>50 175</b>
thereof foreign affiliation	25 541	29 617	33 891
<b>Industry (CZ-NACE)</b>			
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
<b>Legal form</b>			
Private entrepreneurs	3 901	4 076	4 908
Business companies	36 525	39 198	45 267
<b>Size class of enterprises</b>			
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
<b>Type of employment</b>			
Employees	36 649	39 619	45 303
Self-employed	3 777	3 655	4 872
<b>Regions - NUTS 3 (only employees)</b>			
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

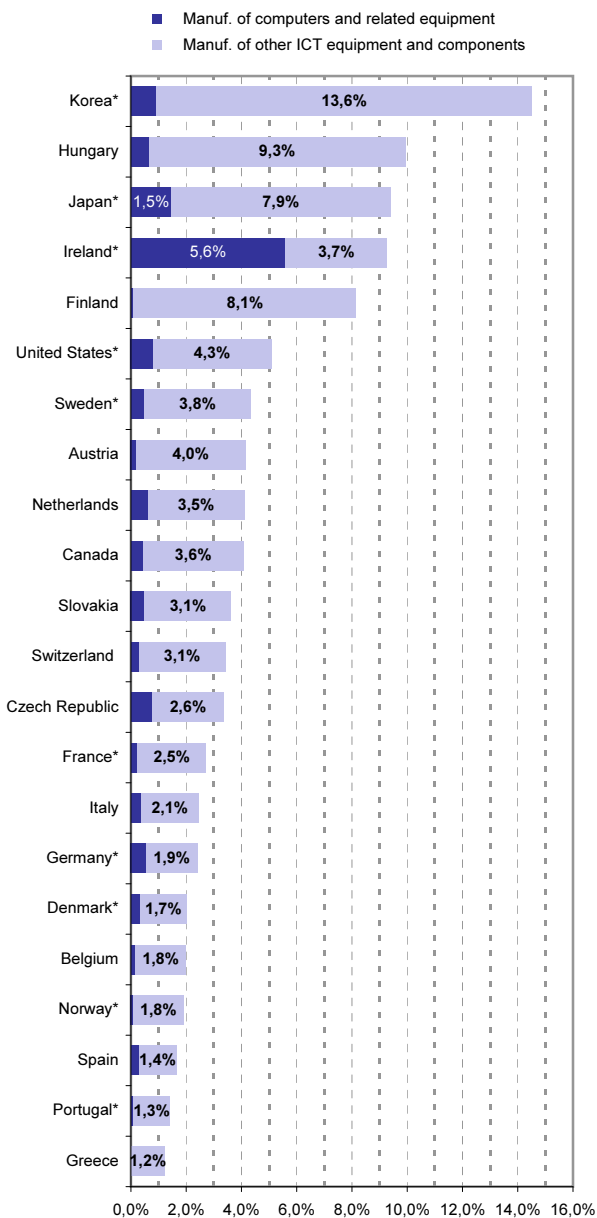
Figure E5 Employment in ICT manufacturing, (thousands, %)



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

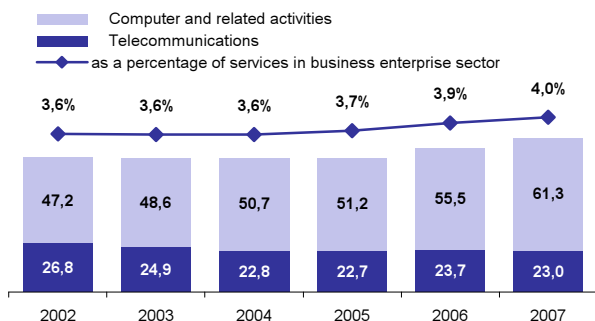
Source: OECD, STAN database

## E ICT sector

**Table E3 Employment in ICT services in the CR**

	persons		
	2005	2006	2007
<b>Total</b>	<b>73 941</b>	<b>79 225</b>	<b>84 310</b>
thereof foreign affiliation	20 707	36 160	38 721
<b>Industry (CZ-NACE)</b>			
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
<b>Legal form</b>			
Private entrepreneurs	10 136	9 732	10 314
Business companies	63 805	69 492	73 996
<b>Size class of enterprises</b>			
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
<b>Type of employment</b>			
Employees	61 284	66 520	71 467
Self-employed	12 657	12 705	12 843
<b>Regions - NUTS 3 (only employees in Computer and related activities)</b>			
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

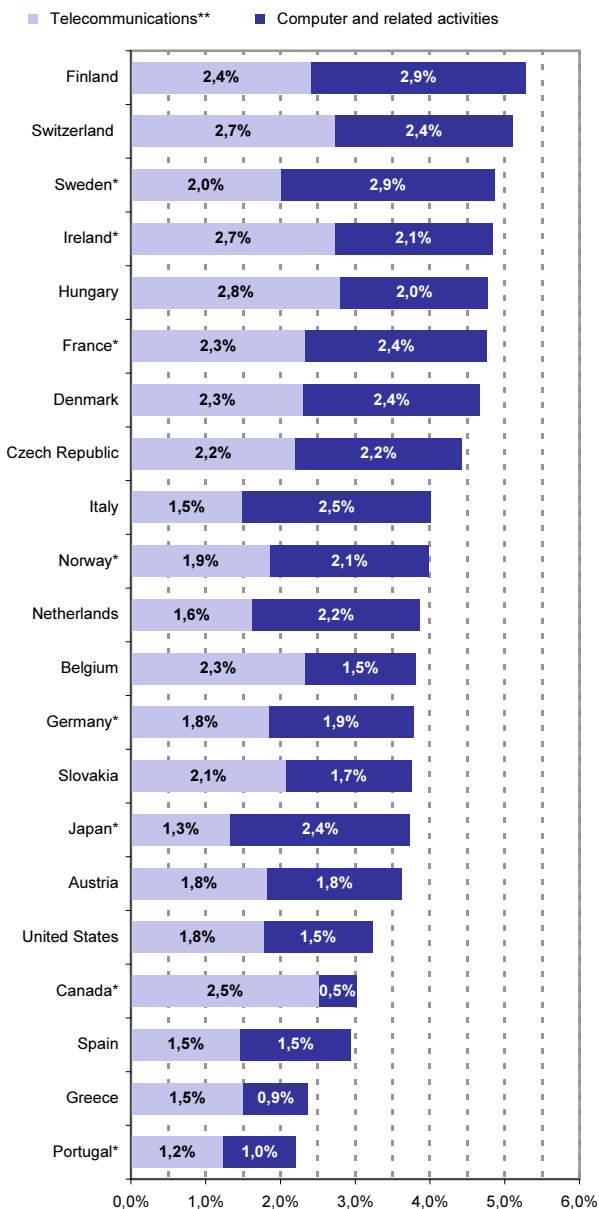
**Figure E7 Employment in ICT services, (thousands, %)**



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
<b>Total</b>	<b>19 822</b>	<b>24 374</b>	<b>26 451</b>
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

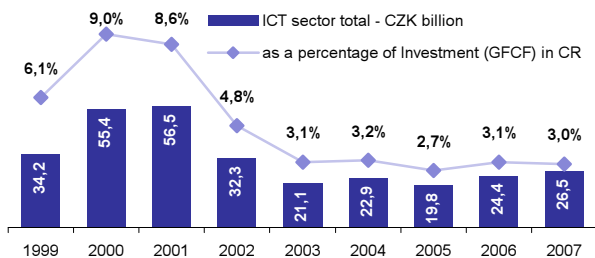


Figure E10 Investment in ICT manufacturing

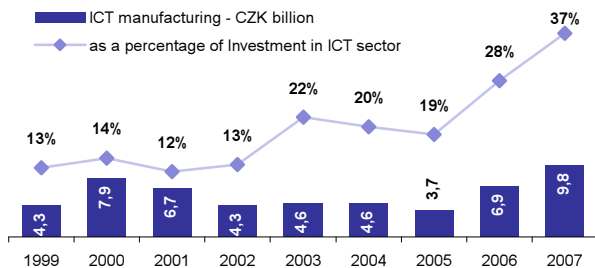
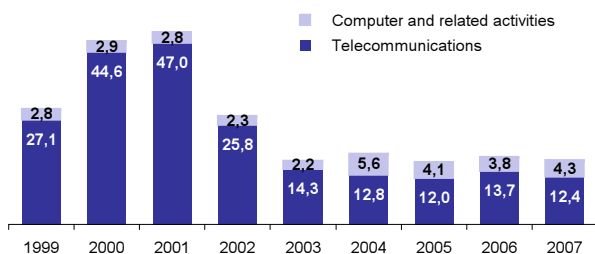


Figure E11 Investment in ICT services (CZK billion)



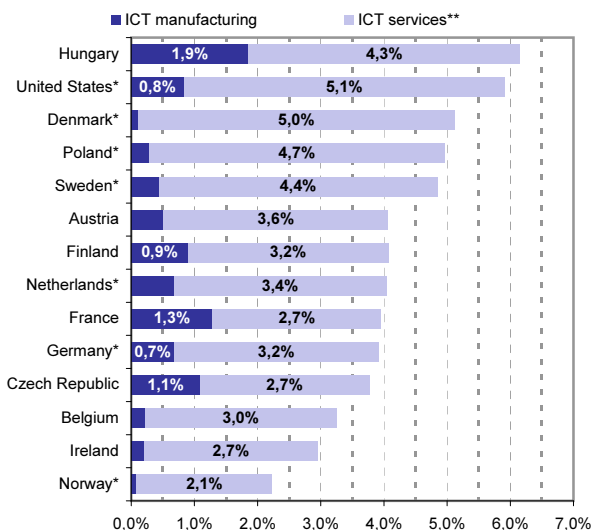
GFCF - Gross Fixed Capital Formation

Source: CZSO, Structural Business Survey

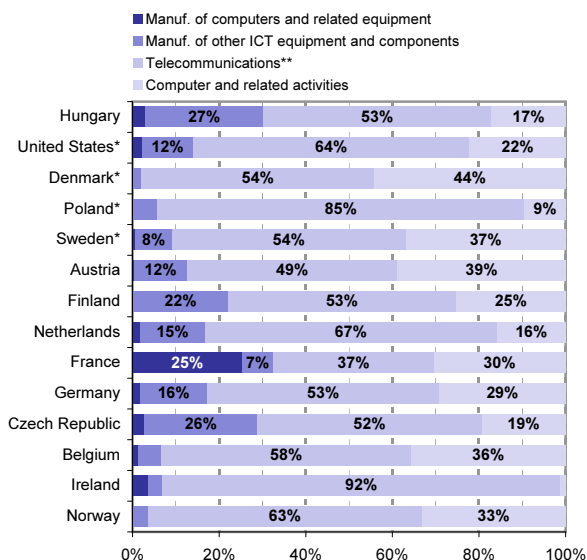


## E ICT sector

**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
<b>Total</b>	<b>3 860</b>	<b>4 340</b>	<b>4 552</b>
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

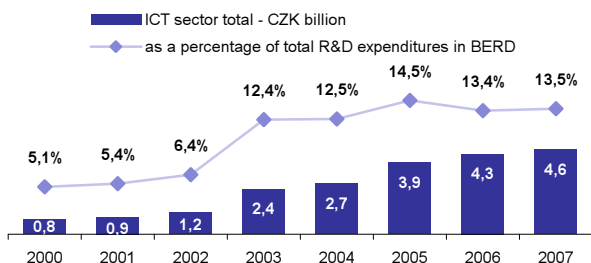


Figure E15 R&D expenditures in ICT manufacturing

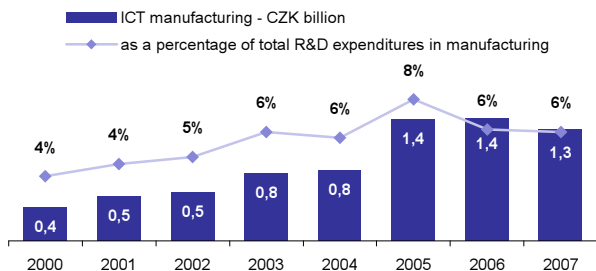
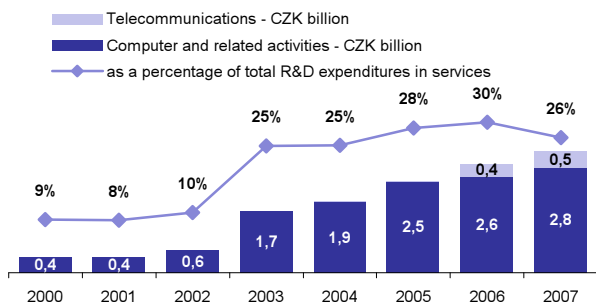


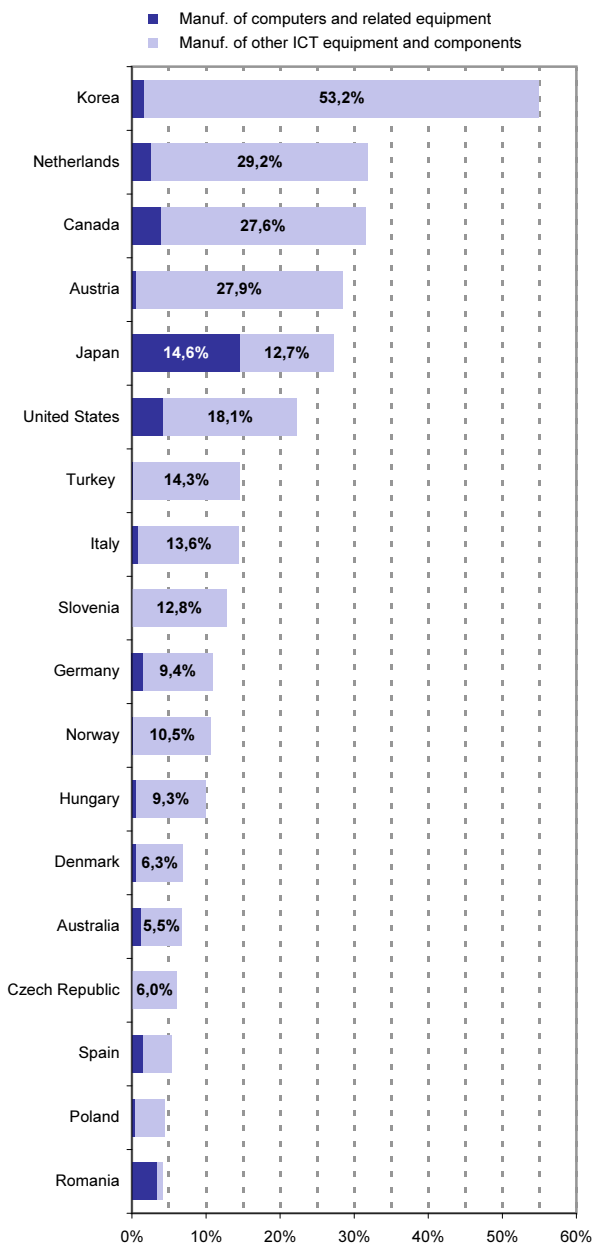
Figure E16 R&D expenditures in ICT services



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
<b>Total</b>	<b>124 942</b>	<b>141 399</b>	<b>153 944</b>
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

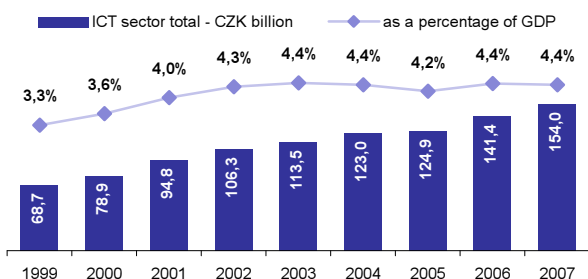


Figure E19 Value added in ICT manufacturing

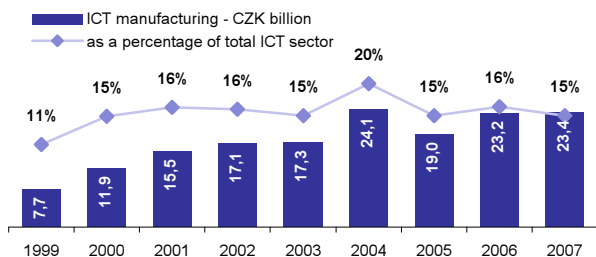
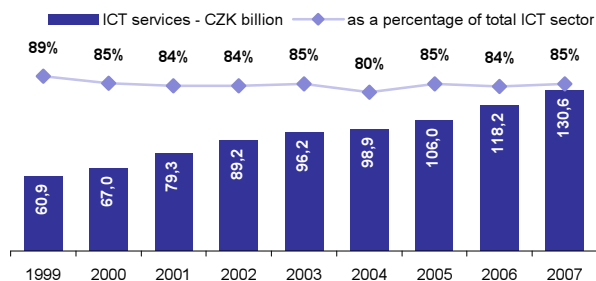


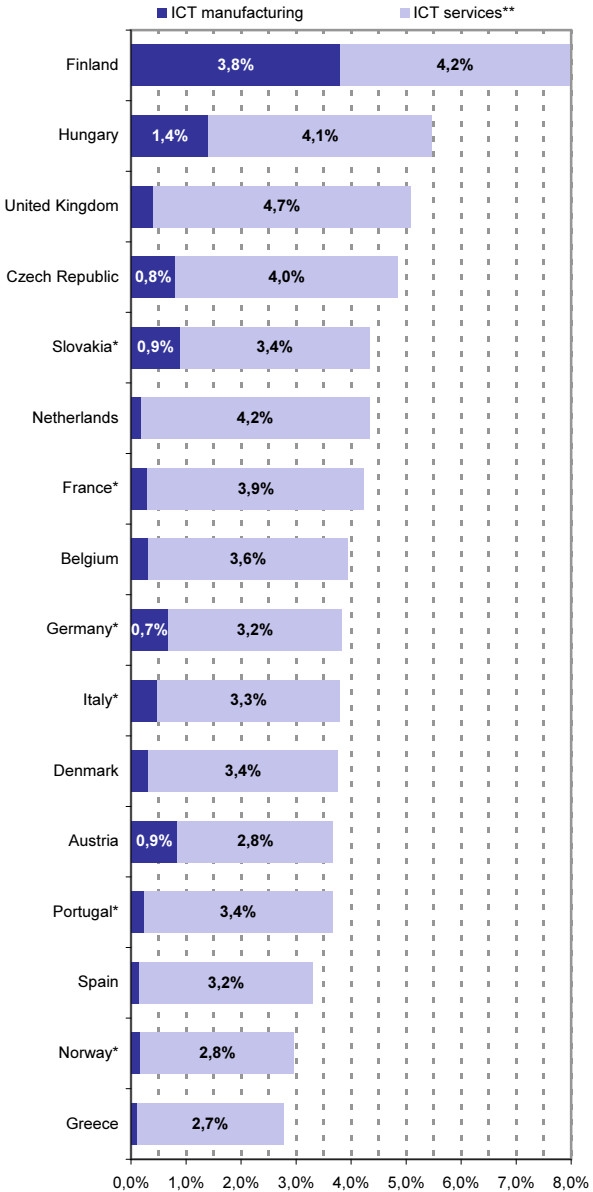
Figure E20 Value added in ICT services



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
<b>Total</b>	<b>416 198</b>	<b>485 724</b>	<b>549 289</b>
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

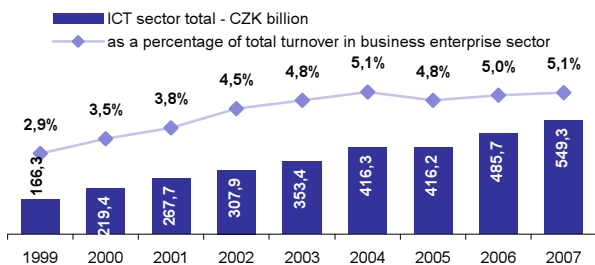


Figure E23 Turnover in ICT manufacturing

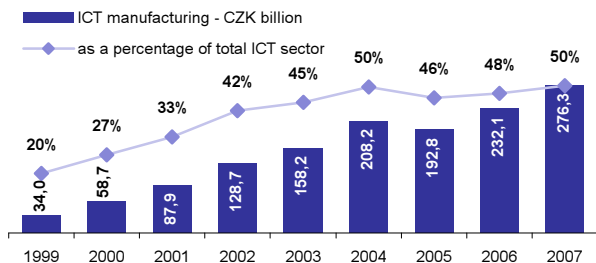
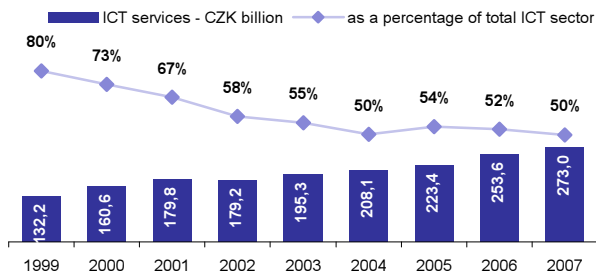


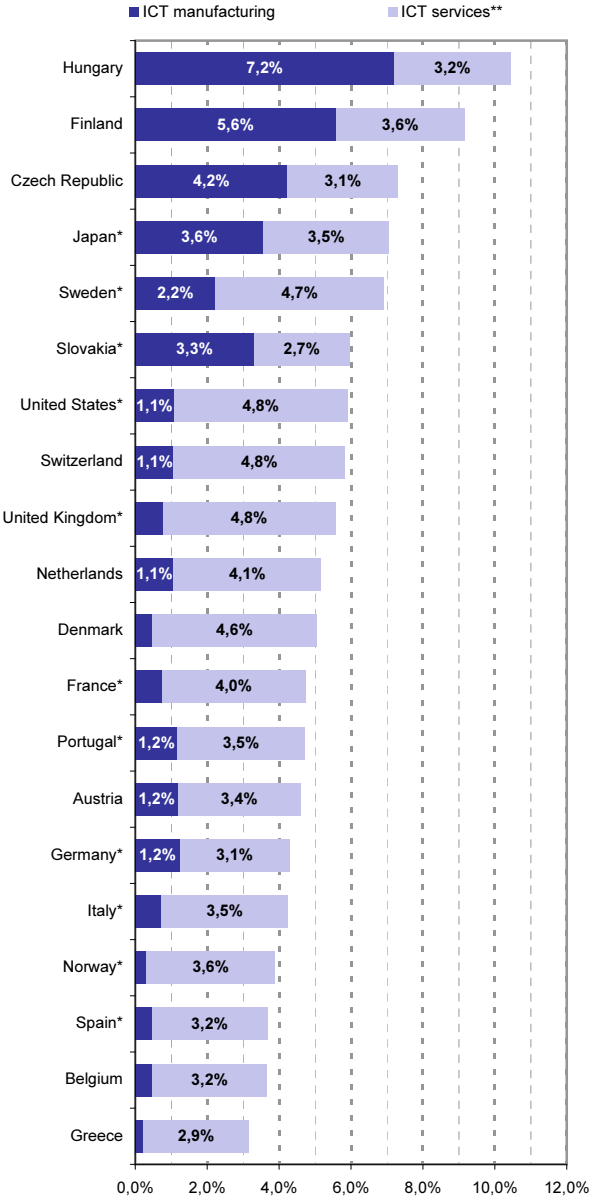
Figure E24 Turnover in ICT services



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
<b>Total</b>	<b>192 837</b>	<b>232 135</b>	<b>276 319</b>
thereof foreign affiliation	175 513	209 820	245 389
<b>Industry (CZ-NACE)</b>			
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
<b>Legal form</b>			
Private entrepreneurs	5 036	4 738	5 402
Business companies	187 801	227 397	270 917
<b>Size class of enterprises</b>			
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, %)

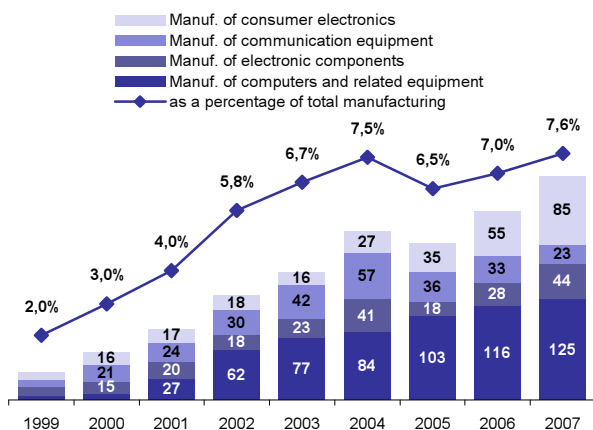
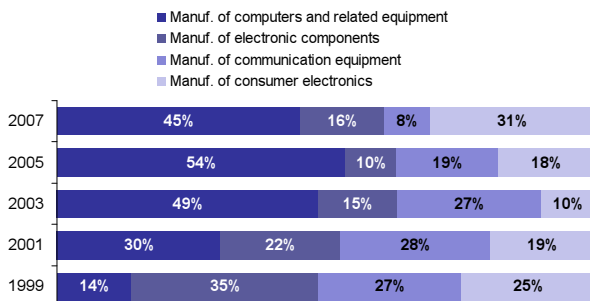


Figure E27 Turnover in ICT manufacturing by CZ-NACE



Source: CZSO, Structural Business Survey



## E ICT sector

Table E9 Turnover in ICT services in the CR

CZK million

	2005	2006	2007
<b>Total</b>	<b>223 360</b>	<b>253 589</b>	<b>272 970</b>
thereof foreign affiliation	99 753	187 426	202 853
<b>Industry (CZ-NACE)</b>			
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
<b>Legal form</b>			
Private entrepreneurs	9 247	9 437	11 245
Business companies	214 113	244 152	261 725
<b>Size class of enterprises</b>			
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, %)

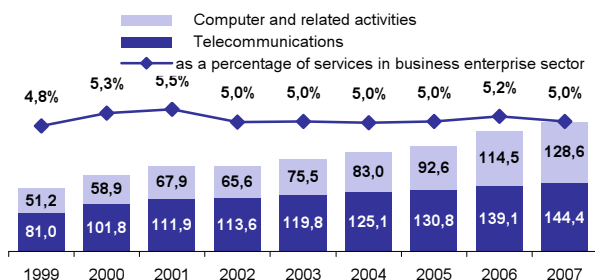
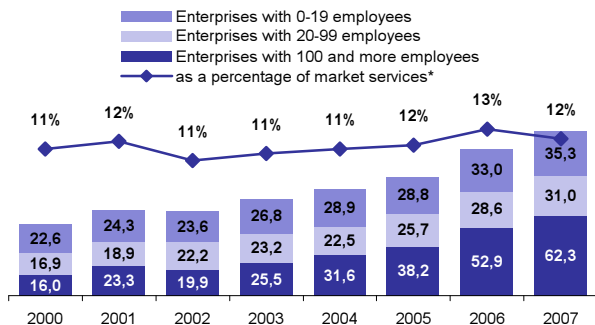


Figure E29 Turnover in Computer and related activities, (CZK billion, %)



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

Source: CZSO, Structural Business Survey

## E ICT sector

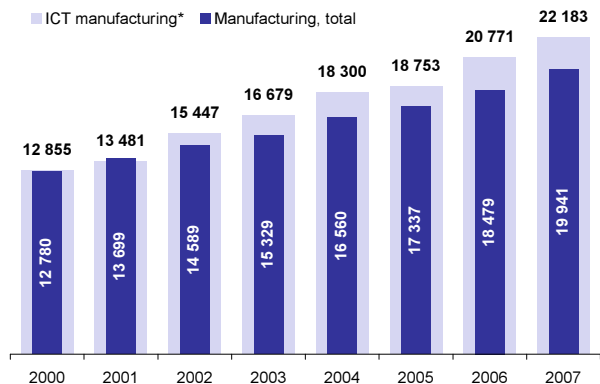
**Table E10 Average monthly gross wage in ICT sector in the CR**

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

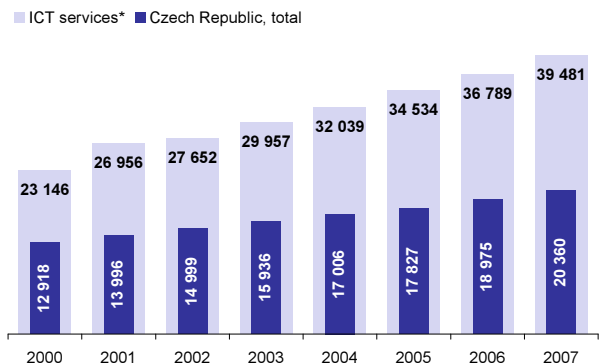
\* Includes also CZ-NACE 641 - Post and courier activities

**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