

## B ICT sector

In general, the term **ICT sector** (industries producing information and communication technologies) 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 provision of the related services.

**ICT sector definition (OECD 1998, 2002)** is based on the following guiding principles to identify ICT industries (economic activities):

1) **for manufacturing industries**, the products (goods) of a candidate industry must be primary intended to fulfil the function of information processing and communication including transmission and display, or must use electronic processing to detect, measure and/or record physical phenomena or control a physical process.

2) **for services industries**, the products (services) of a candidate industry must be intended to enable the function of information processing and communication by electronic means.

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

#### a) 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)
- Manufacture of instruments & appliances for measuring, checking, testing (CZ NACE 332)
- Manufacture of industrial process control equipment (CZ NACE 333)

#### b) 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)

*Note: tables in this publication do not include any data on industries related to ICT wholesale (included in OECD ICT sector definition) for the absence of reliable data in requested breakdowns.*

The SBS (structural business survey) database was used as a data source for the Czech ICT sector. The 2006 data are preliminary.

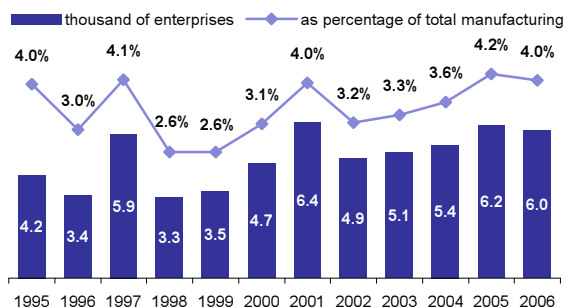
EU KLEMS database was used as a data source for an international comparison. <http://www.euklems.net/>

## B ICT sector

**Table B1 Enterprises in ICT Manufacturing**

	number of enterprises			
	2003	2004	2005	2006
<b>Total</b>	<b>5 115</b>	<b>5 439</b>	<b>6 234</b>	<b>6 034</b>
<b>by Industry (CZ-NACE)</b>				
30 Manuf. of computers equipment	388	399	480	575
32 M. of radio, TV and commun. equip.	3 481	3 893	4 647	4 443
321 M. of electronic components	1 125	1 432	1 931	1 718
322 M. of communication equipment	1 400	1 815	1 875	1 890
323 M. of consumer electronics	956	646	841	835
332 M. of instrum. for measur., testing	1 174	1 084	1 046	949
333 M. of ind. process control equip.	72	63	61	67
<b>by size group of enterprise</b>				
0 - 19 employees	4 844	5 179	5 978	5 751
20 - 49 employees	125	109	105	127
50 - 249 employees	110	110	109	117
250 + employees	36	41	42	39
<b>by legal form</b>				
private entrepreneurs	4 030	4 246	5 076	4 802
business companies	1 085	1 193	1 158	1 232
of which foreign affiliates	185	225	222	232
<b>by regions*</b>				
Praha	1 002	805	896	970
Středočeský	703	840	1 008	867
Jihočeský	259	298	234	250
Plzeňský	135	181	195	220
Karlovarský	122	130	107	106
Ústecký	231	237	339	393
Liberecký	167	138	195	258
Královéhradecký	294	293	251	248
Pardubický	192	199	254	178
Vysočina	229	232	333	311
Jihomoravský	772	1 032	946	952
Olomoucký	283	306	389	388
Zlínský	438	426	565	623
Moravskoslezský	392	520	642	409

**Figure B1 Enterprises in ICT Manufacturing**



\* number of local units

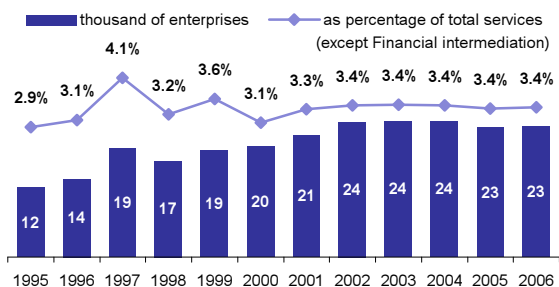
Source: CZSO, Structural Business Survey

## B ICT sector

**Table B2 Enterprises in ICT Services**

	number of enterprises			
	2003	2004	2005	2006
<b>Total</b>	<b>23 937</b>	<b>23 906</b>	<b>22 874</b>	<b>23 063</b>
<b>by Industry (CZ-NACE)</b>				
642 Telecommunications	408	514	557	630
72 Computer and related activities	23 529	23 392	22 317	22 433
721 Hardware consultancy	2 188	2 329	2 211	2 206
722 Software consultancy and supply	13 498	13 660	13 523	13 922
723 Data processing	4 555	4 211	3 612	3 612
724 Data base activities	358	431	454	489
725 Repair of computing machinery	2 140	1 868	1 840	1 763
726 Other computer related activities	790	893	677	441
<b>by size group of enterprise</b>				
0 - 19 employees	23 516	23 484	22 411	22 574
20 - 49 employees	281	269	293	309
50 - 249 employees	123	134	146	154
250 + employees	17	19	24	26
<b>by legal form</b>				
private entrepreneurs	19 323	19 007	17 740	17 697
business companies	4 614	4 899	5 134	5 366
of which foreign affiliates	680	705	674	819
<b>by regions*</b>				
Praha	8 778	8 037	7 854	8 097
Středočeský	1 831	2 119	2 089	2 631
Jihočeský	998	1 097	1 250	968
Plzeňský	1 367	1 493	1 845	1 393
Karlovarský	713	500	674	423
Ústecký	746	706	1 131	1 290
Liberecký	627	619	696	844
Královéhradecký	1 439	1 087	1 832	1 559
Pardubický	1 085	1 443	688	1 052
Vysočina	478	439	457	468
Jihomoravský	1 721	2 845	2 530	2 294
Olomoucký	807	1 378	591	624
Zlínský	1 437	1 242	669	875
Moravskoslezský	3 475	2 418	1 825	1 840

**Figure B2 Enterprises in ICT Services**



\* number of local units (includes also CZ-NACE 641)

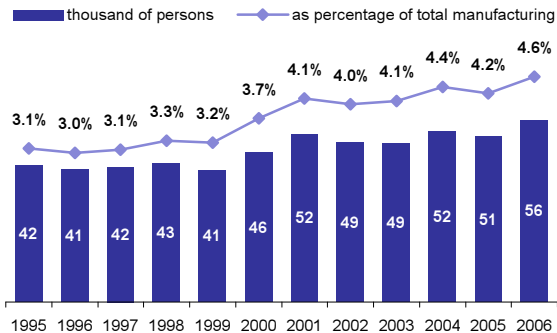
Source: CZSO, Structural Business Survey

## B ICT sector

**Table B3 Employees in ICT Manufacturing**

	persons			
	2003	2004	2005	2006
<b>Total</b>	<b>48 757</b>	<b>52 442</b>	<b>51 032</b>	<b>56 003</b>
<b>by Industry (CZ-NACE)</b>				
30 Manuf. of computers equipment	7 999	8 434	8 657	9 836
32 M. of radio, TV and commun. equip.	28 173	30 518	27 991	29 815
321 M. of electronic components	16 649	17 051	15 288	15 480
322 M. of communication equipment	7 325	8 046	7 167	8 176
323 M. of consumer electronics	4 199	5 421	5 537	6 159
332 M. of instrum. for measur., testing	10 801	11 053	11 737	12 785
333 M. of ind. process control equip.	1 784	2 436	2 646	3 566
<b>by size group of enterprise</b>				
0 - 19 employees	4 670	5 037	5 153	5 413
20 - 49 employees	3 256	3 035	3 101	3 754
50 - 249 employees	11 443	11 160	11 227	13 566
250 + employees	29 388	33 210	31 551	33 270
<b>by legal form</b>				
private entrepreneurs	1 191	1 286	1 461	1 495
business companies	47 567	51 156	49 571	54 508
of which foreign affiliates	29 113	32 919	30 741	34 232
<b>by regions</b>				
Praha	4 501	5 183	4 943	5 740
Středočeský	5 260	5 996	6 149	4 913
Jihočeský	2 847	2 128	3 473	2 092
Plzeňský	3 083	4 320	3 515	5 005
Karlovarský	1 144	385	1 326	508
Ústecký	2 247	2 269	1 909	1 935
Liberecký	833	1 172	1 113	1 236
Královéhradecký	4 495	4 670	4 091	4 502
Pardubický	8 029	8 712	8 111	8 551
Vysočina	827	936	619	1 222
Jihomoravský	5 461	6 287	7 221	9 926
Olomoucký	2 694	2 990	1 995	2 631
Zlínský	6 127	5 863	5 216	5 012
Moravskoslezský	1 210	1 530	1 350	2 727

**Figure B3 Employees in ICT Manufacturing**



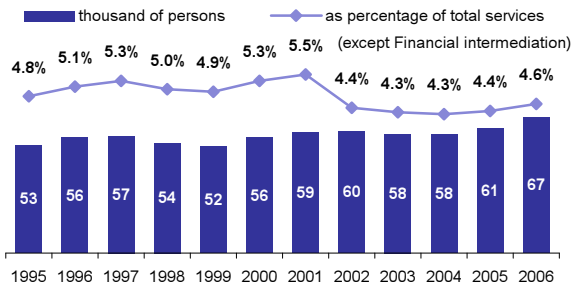
Source: CZSO, Structural Business Survey

## B ICT sector

Table B4 Employees in ICT Services

	persons			
	2003	2004	2005	2006
<b>Total</b>	<b>58 279</b>	<b>57 943</b>	<b>61 284</b>	<b>66 520</b>
<b>by Industry (CZ-NACE)</b>				
642 Telecommunications	24 302	22 080	22 194	22 995
72 Computer and related activities	33 976	35 864	39 090	43 525
721 Hardware consultancy	1 399	1 285	1 416	1 670
722 Software consultancy and supply	23 456	26 526	29 925	33 289
723 Data processing	5 424	4 569	4 368	5 090
724 Data base activities	633	600	520	498
725 Repair of computing machinery	2 710	2 602	2 605	2 860
726 Other computer related activities	354	282	255	119
<b>by size group of enterprise</b>				
0 - 19 employees	13 982	15 188	15 214	15 134
20 - 49 employees	8 100	7 782	8 381	8 990
50 - 249 employees	10 671	12 337	13 398	15 511
250 + employees	25 526	22 637	24 291	26 885
<b>by legal form</b>				
private entrepreneurs	1 166	975	986	811
business companies	57 113	56 969	60 298	65 709
of which foreign affiliates	14 681	18 545	20 143	32 189
<b>by regions*</b>				
Praha	35 223	35 812	31 161	43 821
Středočeský	6 928	7 640	12 962	3 724
Jihočeský	5 847	5 686	5 563	5 542
Plzeňský	4 837	4 607	5 984	5 822
Karlovarský	1 452	1 287	341	322
Ústecký	5 164	4 826	6 664	6 571
Liberecký	2 620	2 693	1 027	1 073
Královéhradecký	4 284	3 950	2 066	2 432
Pardubický	5 048	4 846	7 408	7 212
Vysočina	2 476	2 365	803	950
Jihomoravský	11 517	11 803	14 237	15 376
Olomoucký	4 585	4 300	1 834	1 719
Zlínský	2 787	2 600	1 554	1 705
Moravskoslezský	9 659	9 161	12 146	12 275

Figure B4 Employees in ICT Services



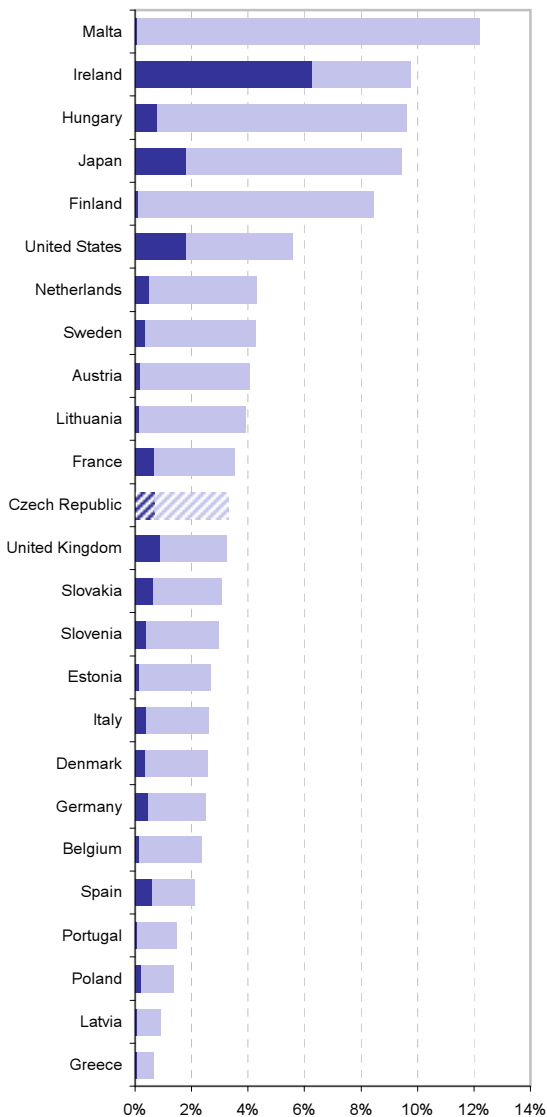
\* includes also CZ-NACE 641

Source: CZSO, Structural Business Survey

## B ICT sector

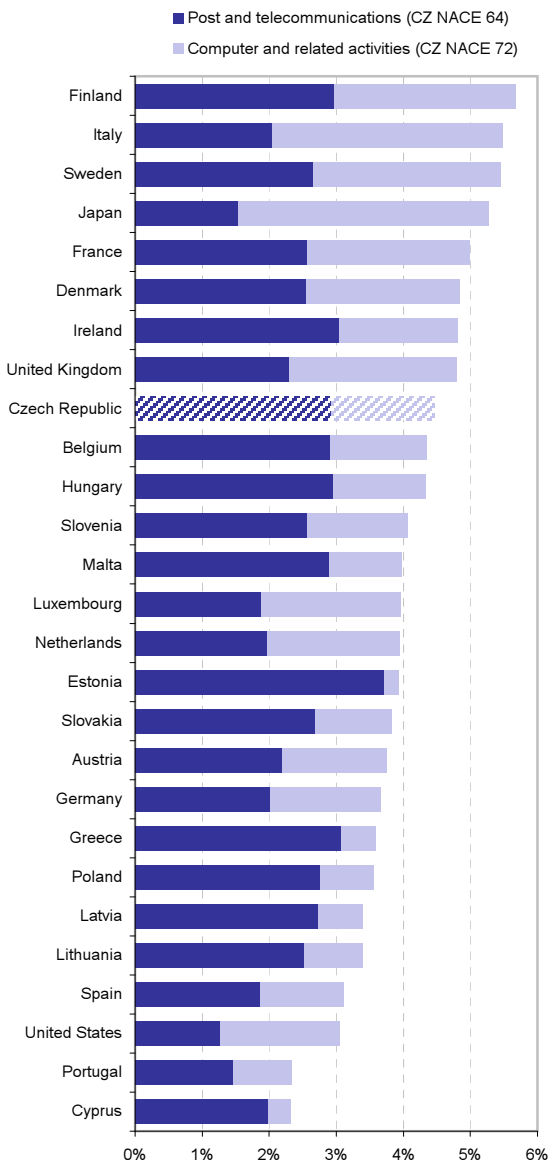
**Figure B5 Employees in selected ICT manufacturing industries  
(as percentage of total manufacturing), 2004**

- Manufacture of computers equipment (CZ NACE 30)
- Man. of radio, TV and comm. equipment and apparatus (CZ NACE 32)



Source: EU KLEMS database

**Figure B6 Employees in ICT Services\*, 2004**  
(as percentage of total services)



\* includes also CZ-NACE 641

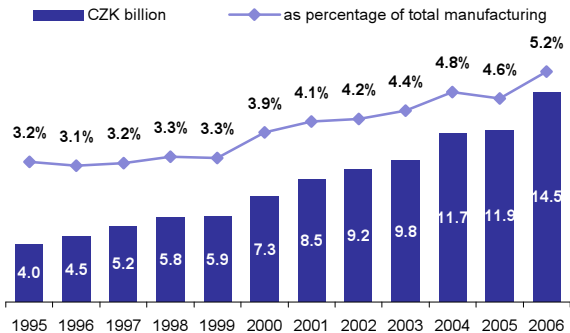
## B ICT sector

Table B5 Wages and Salaries in ICT Manufacturing

CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>9 783</b>	<b>11 704</b>	<b>11 876</b>	<b>14 518</b>
<b>by Industry (CZ-NACE)</b>				
30 Manuf. of computers equipment	1 469	1 725	1 960	2 245
32 M. of radio, TV and commun. equip.	5 685	6 903	6 390	7 877
321 M. of electronic components	2 840	3 246	2 697	3 457
322 M. of communication equipment	2 043	2 627	2 560	3 003
323 M. of consumer electronics	802	1 031	1 134	1 416
332 M. of instrum. for measur., testing	2 122	2 327	2 656	3 134
333 M. of ind. process control equip.	507	749	870	1 262
<b>by size group of enterprise</b>				
0 - 19 employees	946	1 041	1 067	1 128
20 - 49 employees	707	739	782	1 004
50 - 249 employees	2 330	2 522	2 538	3 332
250 + employees	5 800	7 401	7 490	9 054
<b>by legal form</b>				
private entrepreneurs	169	198	240	250
business companies	9 614	11 506	11 636	14 267
of which foreign affiliates	5 951	7 632	7 410	9 239
<b>by regions</b>				
Praha	1 573	2 010	2 055	2 503
Středočeský	1 091	1 445	1 542	1 381
Jihočeský	470	392	646	429
Plzeňský	619	889	735	1 355
Karlovarský	205	80	249	98
Ústecký	399	422	387	418
Liberecký	140	227	212	258
Královéhradecký	807	902	885	1 030
Pardubický	1 420	1 627	1 674	1 841
Vysočina	129	171	148	312
Jihomoravský	1 018	1 325	1 595	2 353
Olomoucký	518	619	359	660
Zlínský	1 105	1 229	1 037	1 134
Moravskoslezský	289	367	350	744

Figure B7 Wages and Salaries in ICT Manufacturing



Source: CZSO, Structural Business Survey



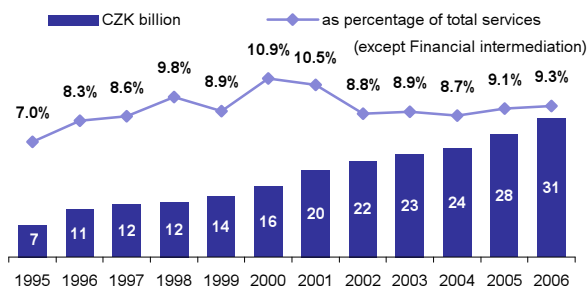
## B ICT sector

**Table B6 Wages and Salaries in ICT Services**

CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>23 188</b>	<b>24 437</b>	<b>27 611</b>	<b>31 038</b>
<b>by Industry (CZ-NACE)</b>				
642 Telecommunications	10 324	10 136	10 941	11 103
72 Computer and related activities	12 864	14 301	16 671	19 935
721 Hardware consultancy	418	368	507	610
722 Software consultancy and supply	9 710	11 558	13 658	16 309
723 Data processing	1 716	1 432	1 474	1 823
724 Data base activities	156	147	139	148
725 Repair of computing machinery	748	737	837	1 021
726 Other computer related activities	116	60	56	23
<b>by size group of enterprise</b>				
0 - 19 employees	3 734	3 960	4 130	4 596
20 - 49 employees	3 131	3 143	3 457	3 721
50 - 249 employees	4 960	6 031	6 501	7 898
250 + employees	11 362	11 302	13 523	14 822
<b>by legal form</b>				
private entrepreneurs	430	161	174	268
business companies	22 757	24 275	27 437	30 770
of which foreign affiliates	8 283	10 463	11 720	18 793
<b>by regions*</b>				
Praha	1 564	2 010	2 048	2 502
Středočeský	1 091	1 445	1 542	1 381
Jihočeský	470	392	646	429
Plzeňský	619	889	735	1 355
Karlovarský	205	80	249	98
Ústecký	399	422	387	418
Liberecký	140	227	212	258
Královéhradecký	807	902	885	1 030
Pardubický	1 420	1 627	1 674	1 841
Vysočina	129	171	148	312
Jihomoravský	1 018	1 325	1 595	2 353
Olomoucký	518	619	359	660
Zlínský	1 105	1 229	1 037	1 134
Moravskoslezský	289	367	350	744

**Figure B8 Wages and Salaries in ICT Services**



\* includes also CZ-NACE 641

Source: CZSO, Structural Business Survey

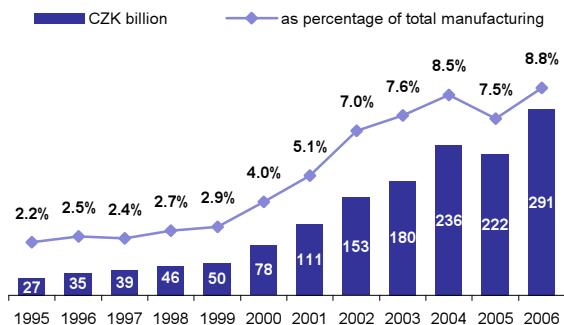
## B ICT sector

**Table B7 Turnover in ICT Manufacturing**

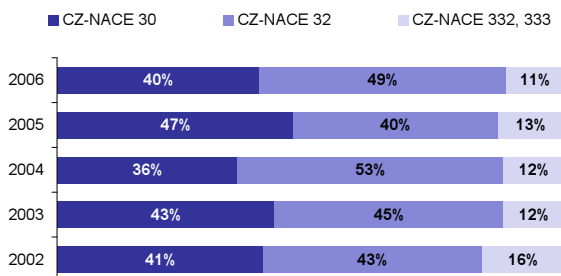
CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>179 530</b>	<b>236 113</b>	<b>221 749</b>	<b>291 427</b>
<b>by Industry (CZ-NACE)</b>				
30 Manuf. of computers equipment	76 869	84 007	103 495	116 259
32 M. of radio, TV and commun. equip.	81 283	124 179	89 343	141 972
321 M. of electronic components	23 301	40 864	18 357	54 086
322 M. of communication equipment	42 202	56 679	36 392	33 234
323 M. of consumer electronics	15 781	26 636	34 593	54 652
332 M. of instrum. for measur., testing	17 805	23 142	23 844	26 366
333 M. of ind. process control equip.	3 572	4 785	5 067	6 831
<b>by size group of enterprise</b>				
0 - 19 employees	8 416	12 378	11 923	13 095
20 - 49 employees	4 393	5 434	4 915	7 257
50 - 249 employees	16 288	19 810	18 372	40 495
250 + employees	150 433	198 490	186 539	230 580
<b>by legal form</b>				
private entrepreneurs	3 548	4 202	5 917	5 633
business companies	175 982	231 911	215 831	285 794
of which foreign affiliates	155 351	205 947	192 078	249 693

**Figure B9 Turnover in ICT Manufacturing**



**Figure B10 Industrial distribution of turnover in ICT Manuf.**



Source: CZSO, Structural Business Survey

## B ICT sector

Table B8 Turnover in ICT Services

CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>195 273</b>	<b>208 103</b>	<b>223 360</b>	<b>253 590</b>
<b>by Industry (CZ-NACE)</b>				
642 Telecommunications	119 759	125 146	130 783	139 051
72 Computer and related activities	75 514	82 957	92 577	114 539
721 Hardware consultancy	4 109	3 202	4 598	6 515
722 Software consultancy and supply	53 771	64 389	72 185	87 767
723 Data processing	8 837	7 611	7 654	10 744
724 Data base activities	1 266	915	934	1 024
725 Repair of computing machinery	6 689	6 300	6 654	8 193
726 Other computer related activities	842	540	553	296
<b>by size group of enterprise</b>				
0 - 19 employees	29 880	32 724	33 105	37 234
20 - 49 employees	14 179	14 187	15 780	19 049
50 - 249 employees	24 695	31 132	33 946	38 498
250 + employees	126 520	130 060	140 529	158 809
<b>by legal form</b>				
private entrepreneurs	8 551	8 852	9 247	9 437
business companies	186 721	199 252	214 113	244 153
of which foreign affiliates	76 325	93 308	99 753	175 283

Figure B11 Turnover in ICT Services

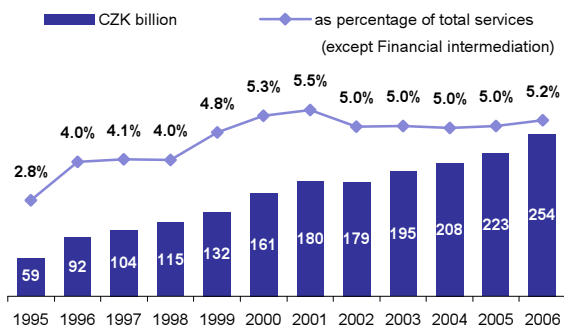
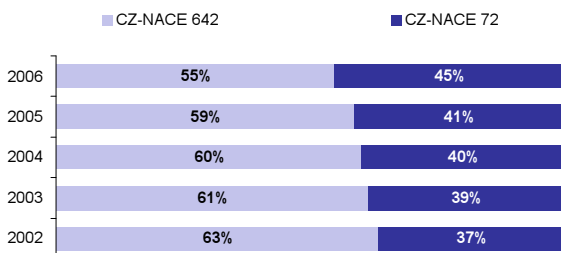


Figure B12 Industrial distribution of turnover in ICT Services



Source: CZSO, Structural Business Survey

## B ICT sector

Table B9 Value added in ICT Manufacturing

CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>24 041</b>	<b>31 167</b>	<b>25 685</b>	<b>36 992</b>
<b>by Industry (CZ-NACE)</b>				
30 Manuf. of computers equipment	2 346	3 969	3 184	5 597
32 M. of radio, TV and commun. equip.	14 932	20 128	15 802	23 764
321 M. of electronic components	7 574	8 986	6 155	10 133
322 M. of communication equipment	5 222	8 501	7 333	8 779
323 M. of consumer electronics	2 136	2 641	2 314	4 851
332 M. of instrum. for measur., testing	5 762	5 625	5 085	5 244
333 M. of ind. process control equip.	1 000	1 445	1 614	2 388
<b>by size group of enterprise</b>				
0 - 19 employees	3 036	3 624	3 494	4 409
20 - 49 employees	1 384	1 645	1 586	2 152
50 - 249 employees	5 037	5 242	5 146	11 431
250 + employees	14 583	20 656	15 459	19 001
<b>by legal form</b>				
private entrepreneurs	1 501	1 734	1 958	2 272
business companies	22 539	29 433	23 727	34 719
of which foreign affiliates	15 274	21 625	15 544	23 644

Figure B13 Value added in ICT Manufacturing

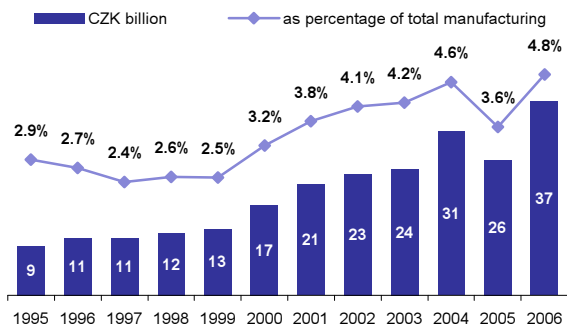
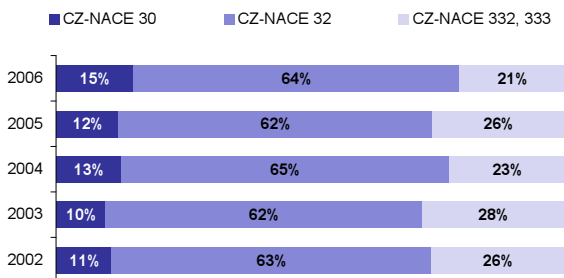


Figure B14 Industrial distribution of value added in ICT Manuf.



Source: CZSO, Structural Business Survey

## B ICT sector

Table B10 Value added in ICT Services

CZK million

	2003	2004	2005	2006
<b>Total</b>	<b>96 218</b>	<b>98 862</b>	<b>105 956</b>	<b>118 183</b>
<b>by Industry (CZ-NACE)</b>				
642 Telecommunications	66 088	65 916	67 926	71 437
72 Computer and related activities	30 129	32 946	38 030	46 746
721 Hardware consultancy	1 509	924	1 555	1 579
722 Software consultancy and supply	21 666	26 140	29 913	37 483
723 Data processing	4 196	3 325	3 655	4 646
724 Data base activities	507	414	411	500
725 Repair of computing machinery	1 989	1 974	2 311	2 433
726 Other computer related activities	262	168	185	105
<b>by size group of enterprise</b>				
0 - 19 employees	12 356	12 550	13 048	13 626
20 - 49 employees	6 078	5 685	6 420	7 457
50 - 249 employees	11 147	13 513	13 608	16 221
250 + employees	66 637	67 114	72 880	80 878
<b>by legal form</b>				
private entrepreneurs	5 124	4 540	4 876	4 398
business companies	91 093	94 322	101 080	113 785
of which foreign affiliates	31 046	39 219	42 292	86 273

Figure B15 Value added in ICT Services

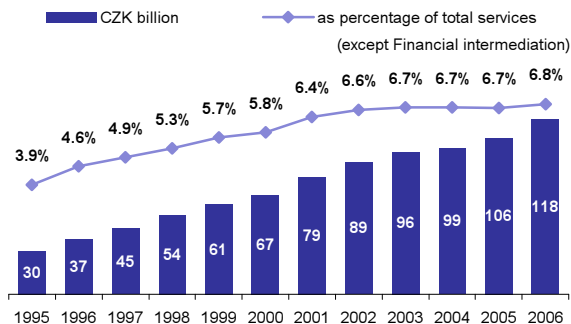
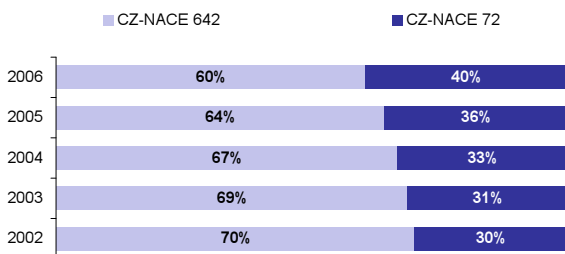


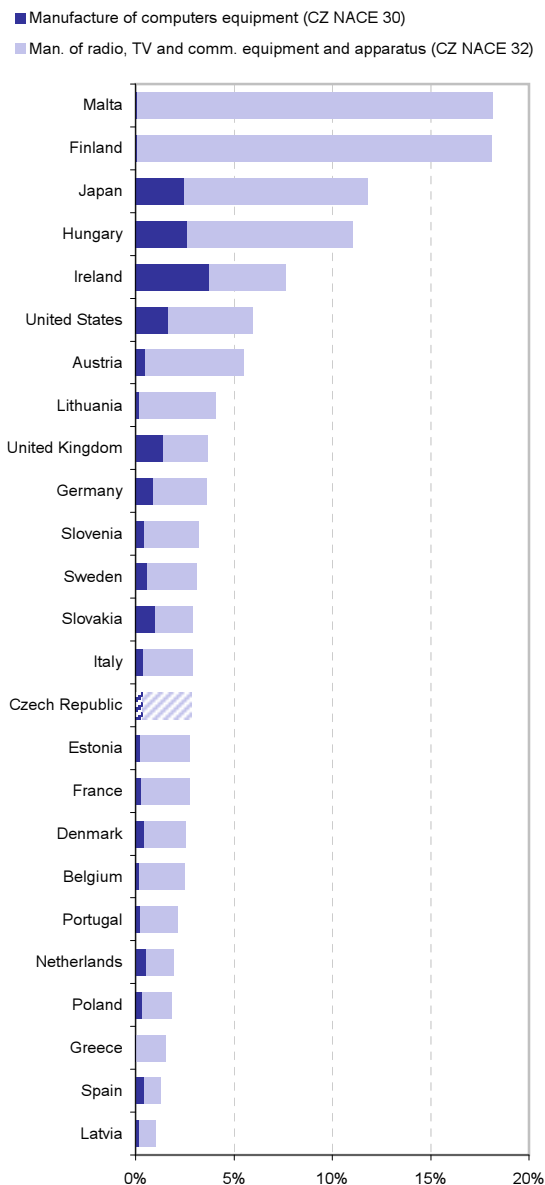
Figure B16 Industrial distribution of value added in ICT Services



Source: CZSO, Structural Business Survey

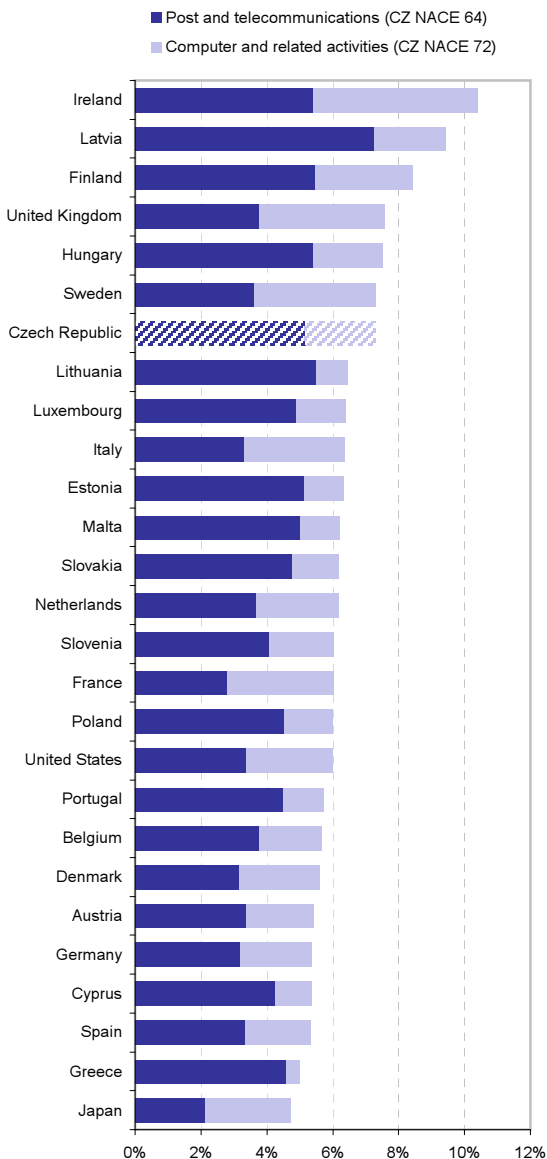
## B ICT sector

**Figure B17 Value added in selected ICT Manufacturing industries  
(as percentage of total manufacturing), 2004**



Source: EU KLEMS database

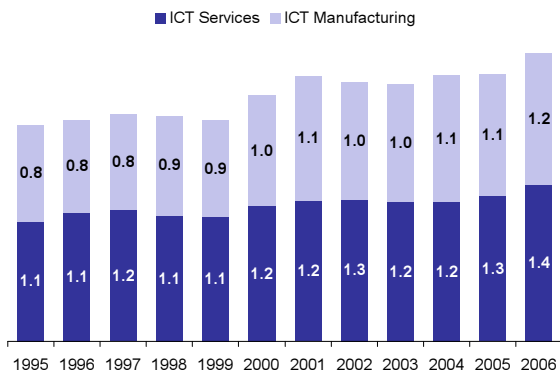
**Figure B18 Value added in ICT Services\*, 2004  
(as percentage of total services)**



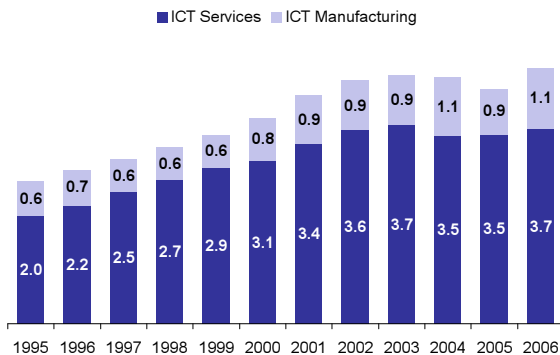
\* includes also CZ-NACE 641

## B ICT sector

**Figure B19 Employees in Czech ICT sector  
(as percentage of total employment)**



**Figure B20 Value added in Czech ICT sector  
(as percentage of GDP)**



Source: CZSO, Structural Business Survey