

E ICT sector

In general, **the term ICT sector** 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.

The list of ICT sector's industries is decided on the following OECD definition: "The production (goods and services) of a candidate industry must primarily be intended to fulfill or enable the function of information processing and communication by electronic means including transmission and display".

In 2007 the ICT sector together with Content and media sector (information economy) was recognized by the United Nation Statistics Division as a new alternative grouping of economic activities defined within the International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4. For more information see following web page:

http://unstats.un.org/unsd/cr/registry/docs/i4_information_economy.pdf

The activities (industries) in the ICT sector can be grouped into the following **four main categories**: ICT manufacturing industries, ICT trade industries and ICT services industries. ICT sector involves all businesses whose dominating activities belong to the **CZ-NACE groups** as follows:

ICT manufacturing industries:

- Manufacture of electronic components and boards (26.1)
- Manufacture of computers and peripheral equipment (26.2)
- Manufacture of communication equipment (26.3)
- Manufacture of consumer electronics and media (26.4 and 26.8)

ICT trade industries (ICT wholesale):

- Wholesale of information and communication equipment (46.5)

Telecommunications:

- Wired telecommunications activities (61.1)
- Wireless telecommunications activities (61.2)
- Satellite and other telecommunications activities. (61.3 and 61.9)

IT services industries:

- Software publishing; Computer programming, consultancy and related activities (58.2 and 62.0)
- Data processing, hosting and related activities; web portals (63.1)
- Repair of computers and communication equipment (95.1)

Data for this chapter, except for R&D expenditure (source: R&D annual survey), were obtained from the annual structural survey of business entities from selected production industries (**SBS – Structural Business Statistics**). In the case of SBS the first reference period for data processing according to the new classification CZ-NACE was the year 2008. Data for 2005–2007 are based on the retroactive conversion of structural data. **2011 data are preliminary**.

Data prior to the year 2005 are estimates based on the **Annual National Accounts Statistics**. More information about this data source is available at: http://apl.czso.cz/pll/rocenka/rocenka.indexnu_en

The **Eurostat Structural Business Statistics Database** was used as a data source for the international comparison. More information about the data from the SBS, including definitions of individual indicators, is available at: http://epp.eurostat.ec.europa.eu/cache/ITY_SDDS/en/sbs_esms.htm

Further information on ICT sector statistics can be found at:

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

E ICT sector

Table E1 Employment in ICT sector in the Czech Republic

	headcount persons		
	2009	2010	2011
Total	141 068	138 596	140 592
ICT manufacturing, total	34 432	29 375	29 435
<i>in enterprises under foreign control</i>	25 739	20 973	21 582
Size class of enterprises			
small (0-49 employees)	6 710	6 627	5 787
medium (50-249 employees)	6 491	5 596	5 385
large (250+ employees)	21 231	17 152	18 263
ICT wholesale, total	10 389	10 975	11 173
<i>in enterprises under foreign control</i>	3 204	3 503	3 385
Size class of enterprises			
small (0-49 employees)	7 028	7 471	7 258
medium (50-249 employees)	3 055	3 226	3 130
large (250+ employees)	305	278	785
Telecommunications, total	21 859	21 264	19 955
<i>in enterprises under foreign control</i>	16 963	16 610	14 879
Size class of enterprises			
small (0-49 employees)	3 796	3 383	3 404
medium (50-249 employees)	1 634	1 836	1 555
large (250+ employees)	16 429	16 045	14 996
IT services total	74 388	76 983	80 029
<i>in enterprises under foreign control</i>	29 094	29 637	31 087
Size class of enterprises			
small (0-49 employees)	38 963	39 308	39 689
medium (50-249 employees)	17 456	18 982	18 020
large (250+ employees)	17 969	18 693	22 319

Figure E1 Employment in ICT sector

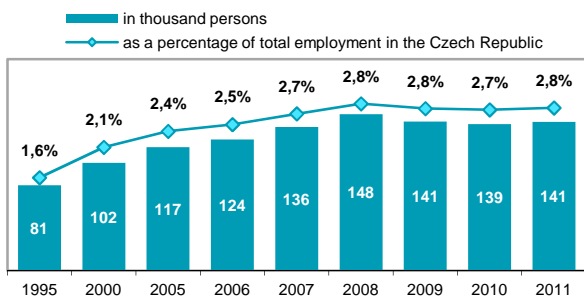
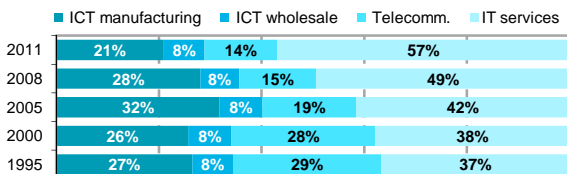


Figure E2 ICT sector employment by main industries



Source: CZSO, Structural Business Statistics and Annual National Accounts

E ICT sector

Figure E3 Employment in ICT manufacturing

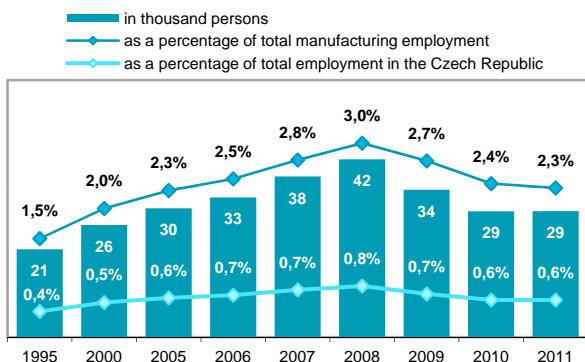


Figure E4 Employment in Telecommunications

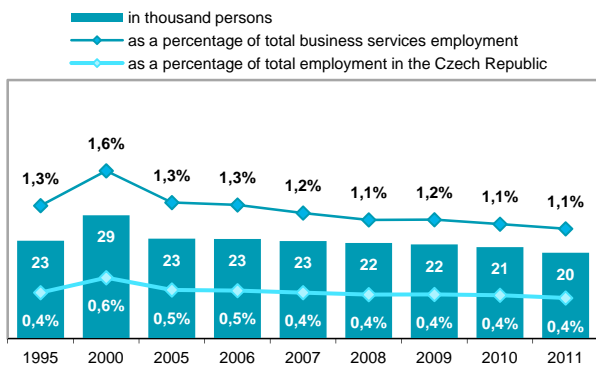
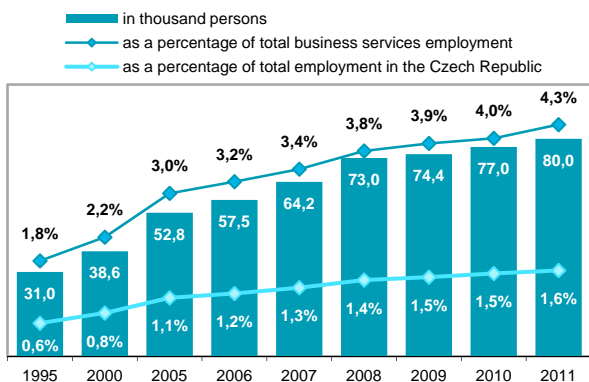
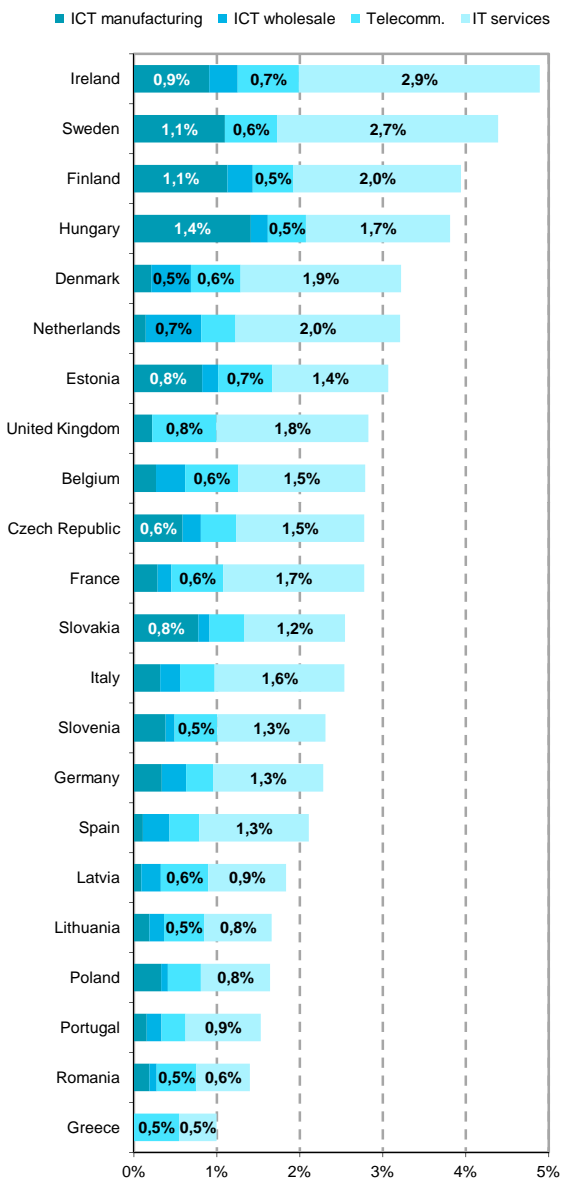


Figure E5 Employment in IT services



E ICT sector

**Figure E6 Employment in ICT sector, 2010
(as a percentage of total national employment)**

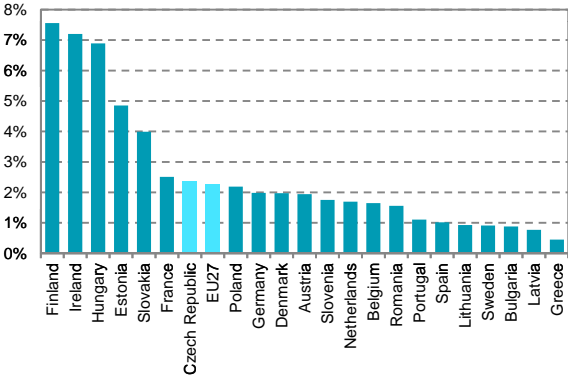


Note: Sweden for ICT manufacturing and Ireland for IT services year 2008 and based on NACE Rev. 1.1 classification

Source: Eurostat, Structural Business Statistics

E ICT sector

Figure E7 Employment in ICT manufacturing*, 2010



* as a percentage of total manufacturing industries

Figure E8 Employment in Telecommunications, 2010**

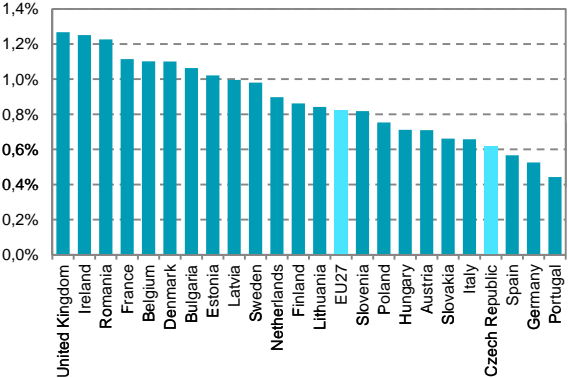
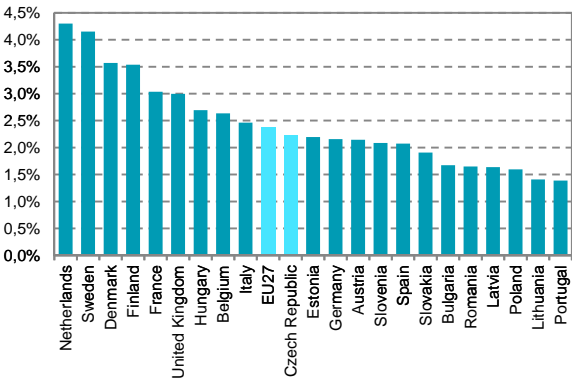


Figure E9 Employment in IT Services, 2010**



** as a percentage of total business enterprise sector (excluding Financial and Insurance Services)

E ICT sector

Table E2 Production value in ICT sector in the Czech Republic

CZK million

	2009	2010	2011
Total	520 114	541 483	522 306
ICT manufacturing, total	221 865	247 721	222 906
<i>in enterprises under foreign control</i>	210 614	233 963	210 875
Size class of enterprises			
small (0-49 employees)	10 420	10 866	10 363
medium (50-249 employees)	10 801	14 683	11 676
large (250+ employees)	200 644	222 172	200 867
ICT wholesale, total	17 842	19 104	21 517
<i>in enterprises under foreign control</i>	8 722	9 437	9 690
Size class of enterprises			
small (0-49 employees)	11 468	11 582	12 341
medium (50-249 employees)	5 759	7 032	7 386
large (250+ employees)	616	489	1 790
Telecommunications, total	132 683	124 712	116 029
<i>in enterprises under foreign control</i>	123 781	116 137	103 308
Size class of enterprises			
small (0-49 employees)	9 780	9 081	9 254
medium (50-249 employees)	4 907	5 337	4 769
large (250+ employees)	117 996	110 295	102 006
IT services total	147 723	149 946	161 854
<i>in enterprises under foreign control</i>	80 616	78 941	83 319
Size class of enterprises			
small (0-49 employees)	58 087	58 073	62 075
medium (50-249 employees)	36 034	37 891	35 735
large (250+ employees)	53 602	53 981	64 045

Figure E10 Production value in ICT sector

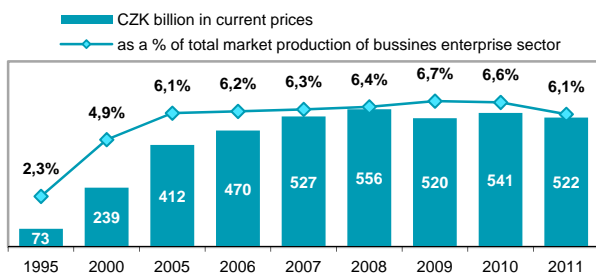
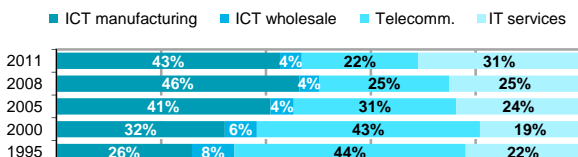


Figure E11 Production in ICT sector by main industries



Source: CZSO, Structural Business Statistics and Annual National Accounts

E ICT sector

Figure E12 Production value in ICT manufacturing

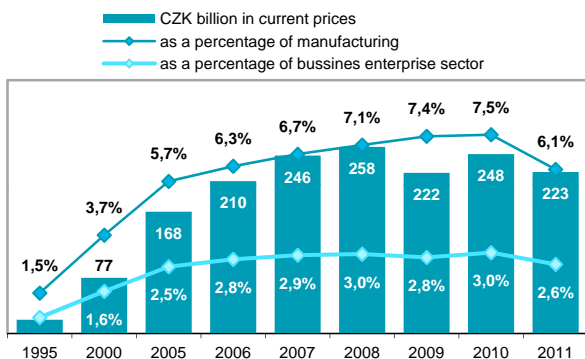


Figure E13 Production value in Telecommunications

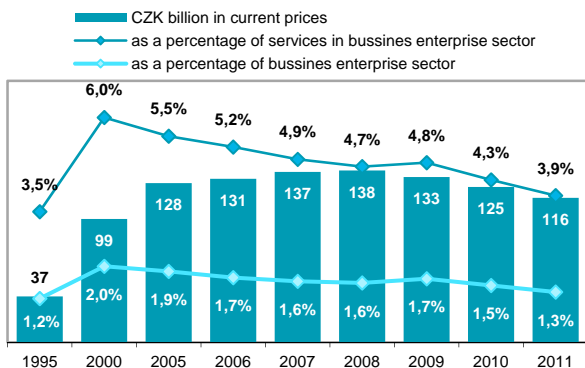
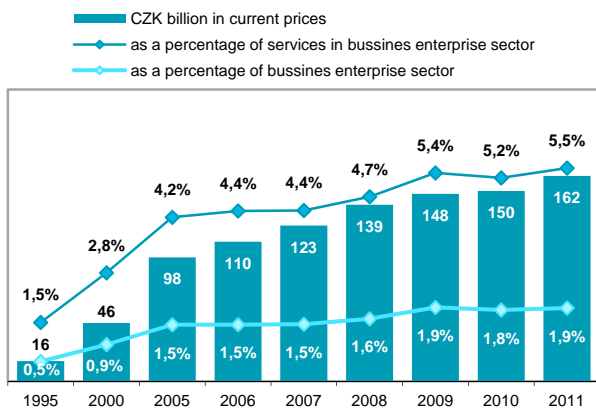


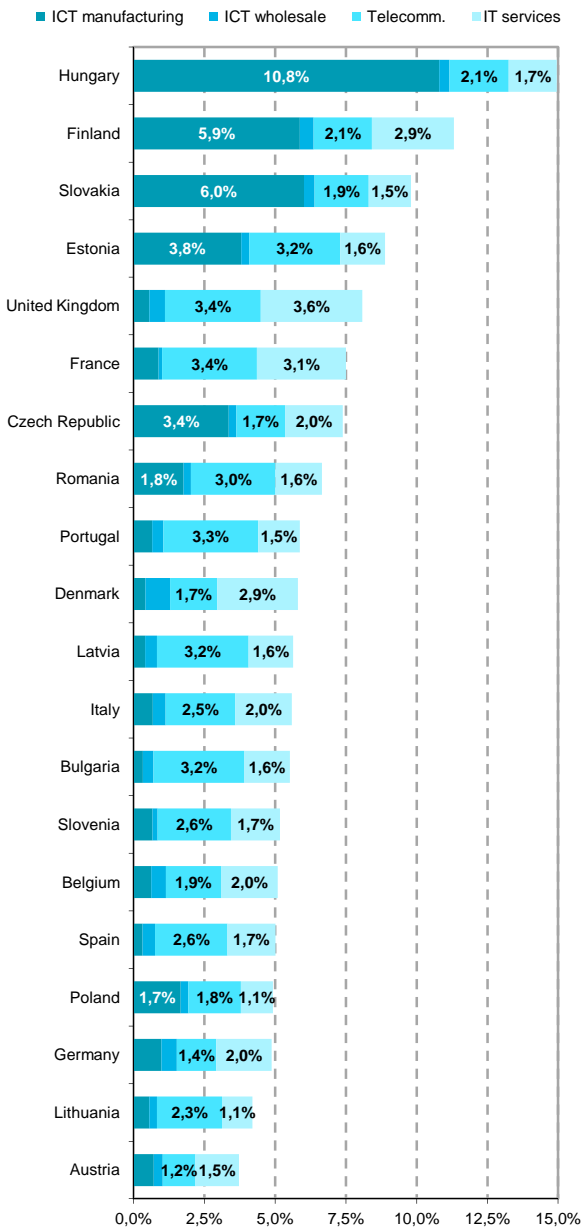
Figure E14 Production value in IT services



Source: CZSO, Structural Business Statistics and Annual National Accounts

E ICT sector

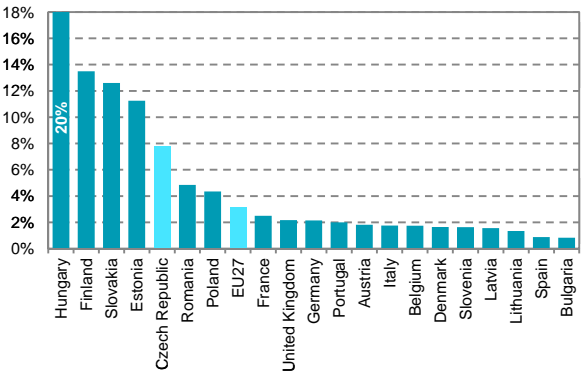
**Figure E15 Production value in ICT sector, 2010
(as a percentage of total bussines enterprise sector)**



Source: Eurostat, Structural Business Statistics

E ICT sector

Figure E16 Production value in ICT manufacturing*, 2010



* as a percentage of total manufacturing industries

Figure E17 Production value in Telecommunications, 2010**

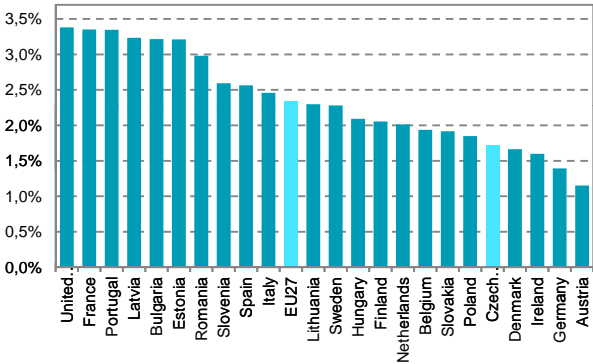
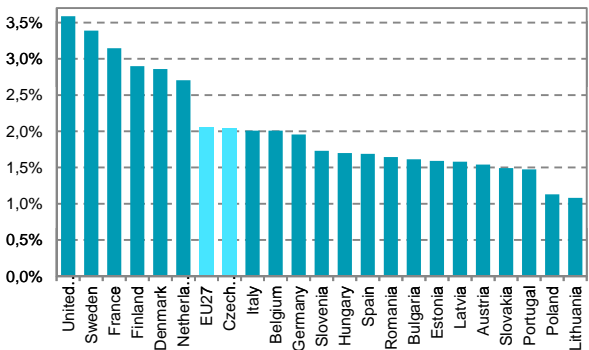


Figure E18 Production value in IT services, 2010**



** as a percentage of total business enterprise sector (excluding Financial and Insurance Services)

E ICT sector

Table E3 Value added in ICT sector in the Czech Republic

CZK million

	2009	2010	2011
Total	160 328	158 778	160 531
ICT manufacturing, total	11 758	13 807	12 148
<i>in enterprises under foreign control</i>	7 911	9 582	8 055
Size class of enterprises			
small (0-49 employees)	3 070	3 107	3 085
medium (50-249 employees)	2 896	3 180	2 725
large (250+ employees)	5 792	7 521	6 338
ICT wholesale, total	8 012	8 478	10 188
<i>in enterprises under foreign control</i>	3 649	3 942	4 139
Size class of enterprises			
small (0-49 employees)	5 198	5 313	5 753
medium (50-249 employees)	2 591	2 980	3 581
large (250+ employees)	223	185	854
Telecommunications, total	70 079	65 866	60 480
<i>in enterprises under foreign control</i>	66 703	62 717	55 526
Size class of enterprises			
small (0-49 employees)	3 014	2 518	2 603
medium (50-249 employees)	1 716	2 111	1 848
large (250+ employees)	65 349	61 236	56 029
IT services total	70 478	70 627	77 715
<i>in enterprises under foreign control</i>	38 042	36 166	39 144
Size class of enterprises			
small (0-49 employees)	24 637	23 665	26 521
medium (50-249 employees)	18 704	19 903	19 685
large (250+ employees)	27 137	27 059	31 509

Figure E19 Value added in ICT sector

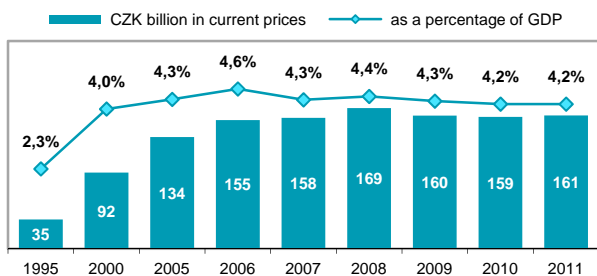
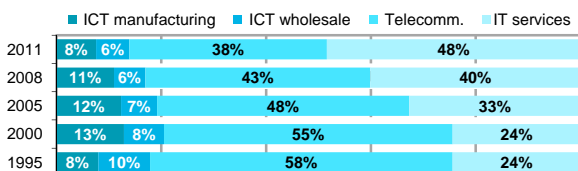


Figure E20 Value added in ICT sector by main groups of industries



Source: CZSO, Structural Business Statistics and Annual National Accounts

E ICT sector

Figure E21 Value added in ICT manufacturing

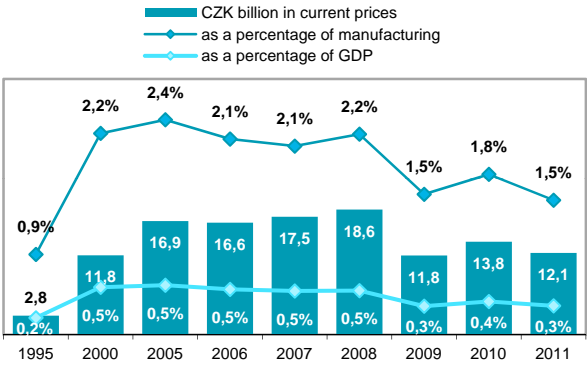


Figure E22 Value added in Telecommunications

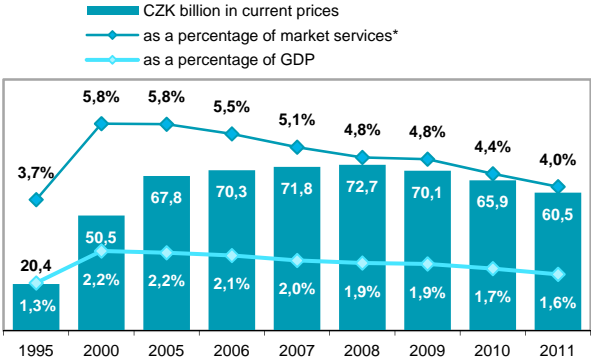
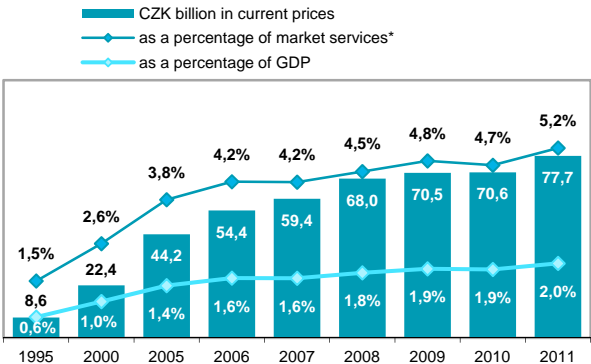


Figure E23 Value added in IT services

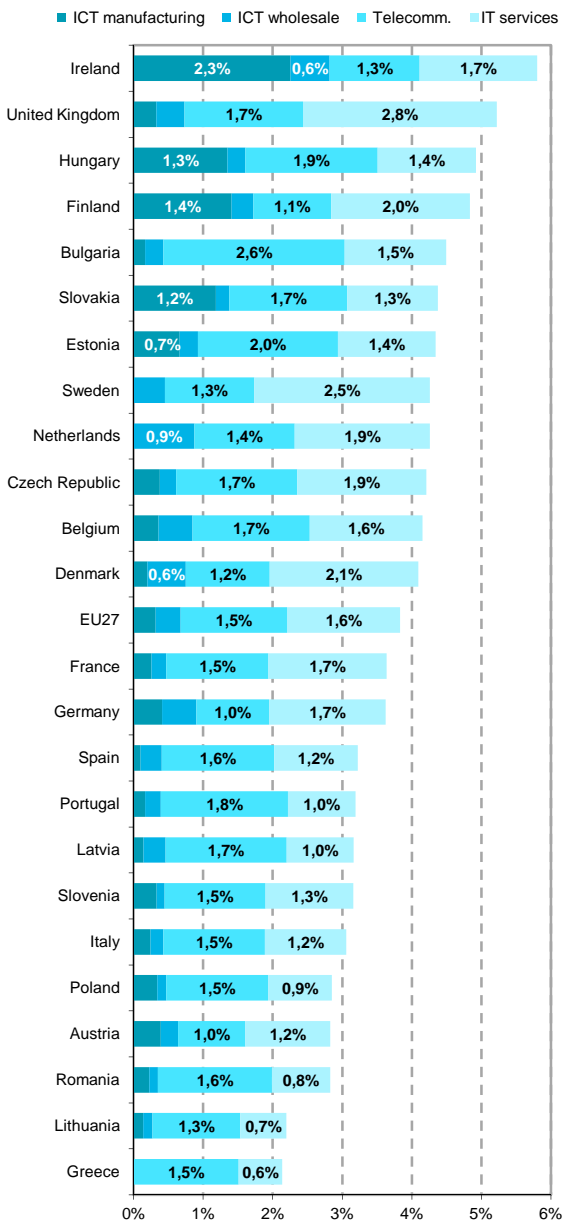


* includes CZ-NACE Sections G to N and Division 95

Source: CZSO, Structural Business Statistics and Annual National Accounts

E ICT sector

**Figure E24 Value added in ICT sector, 2010
(as a percentage of GDP)**

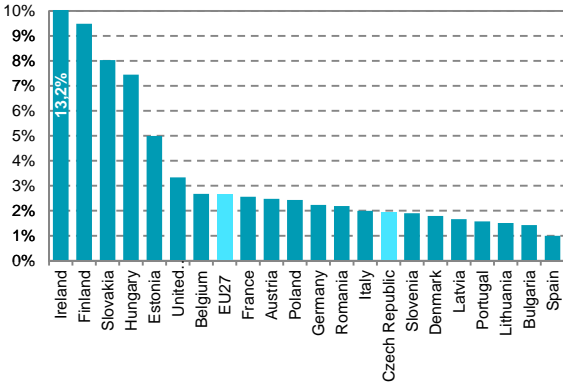


Note: the Netherlands and Sweden without ICT manufacturing

Source: Eurostat, Structural Business Statistics

E ICT sector

Figure E25 Value added in ICT manufacturing*, 2010



* as a percentage of total manufacturing industries

Figure E26 Value added in Telecommunications**, 2010

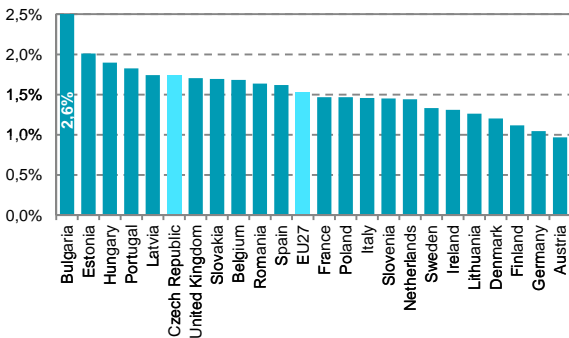
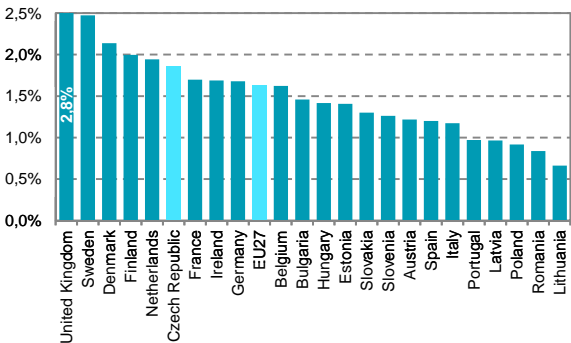


Figure E27 Value added in IT services**, 2010



** as a percentage of total business enterprise sector (excluding Financial and Insurance Services)

E ICT sector

Table E4 R&D expenditure in ICT sector in the Czech Republic

CZK million

	2009	2010	2011
Total	4 732	4 790	5 643
ICT manufacturing, total	802	592	567
<i>in enterprises under foreign control</i>	471	303	232
Size class of enterprises			
small (0-49 employees)	93	80	110
medium (50-249 employees)	297	297	326
large (250+ employees)	412	214	131
ICT wholesale, total	85	82	101
Telecommunications, total	405	519	549
<i>in enterprises under foreign control</i>	393	501	533
Size class of enterprises			
small (0-49 employees)	2	2	3
medium (50-249 employees)	6	14	11
large (250+ employees)	397	504	535
IT services total	3 440	3 597	4 427
<i>in enterprises under foreign control</i>	1 621	1 625	1 955
Size class of enterprises			
small (0-49 employees)	778	897	1 212
medium (50-249 employees)	2 133	1 851	1 582
large (250+ employees)	529	849	1 633

Figure E28 R&D expenditure in ICT sector

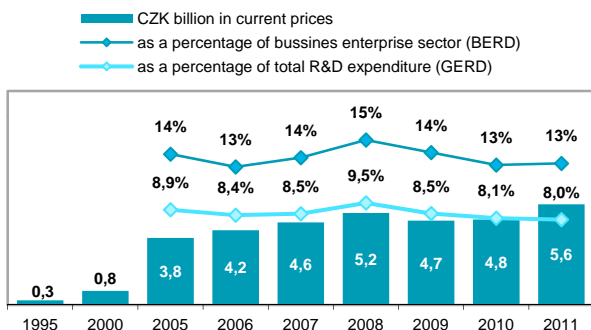
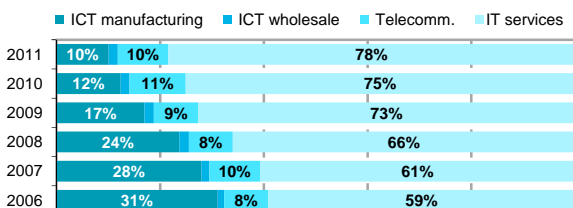


Figure E29 R&D expenditure in ICT sector by main industries



Source: CZSO, Annual R&D survey

E ICT sector

Figure E30 R&D expenditure in ICT manufacturing

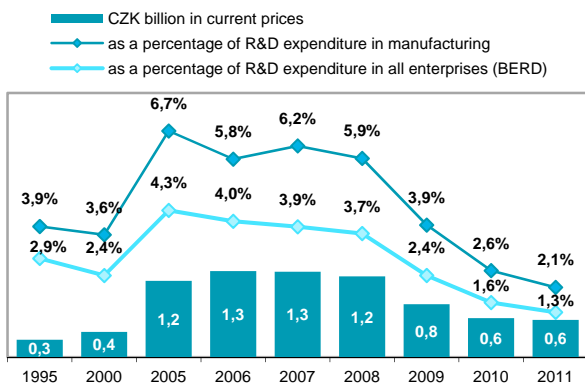


Figure E31 R&D expenditure in Telecommunications

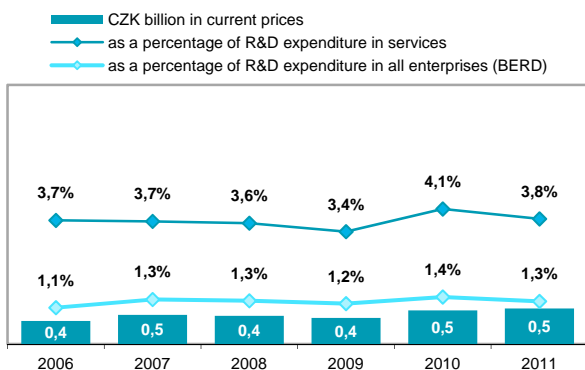
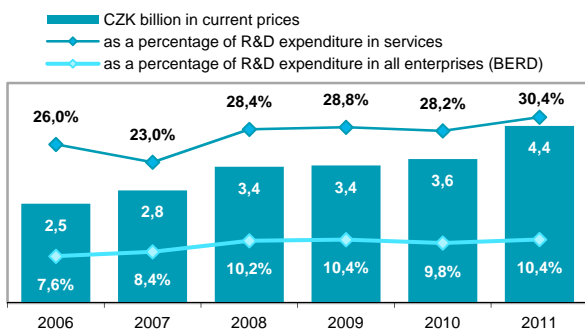


Figure E32 R&D expenditure in IT services



E ICT sector

Figure E33 R&D expenditure in ICT sector, 2010
(% of total R&D expenditure in business enterprise sector)

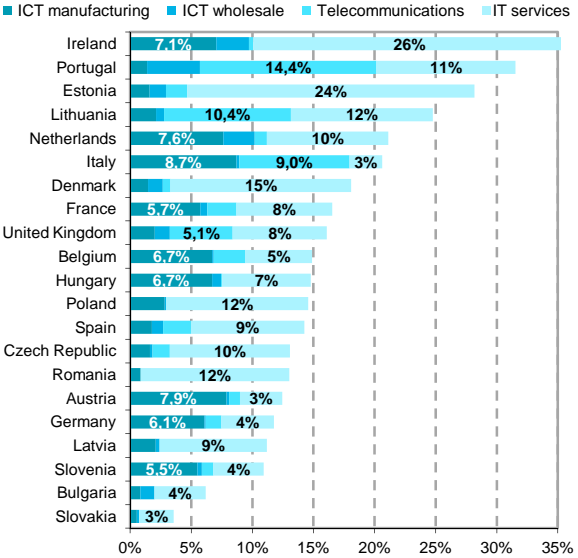
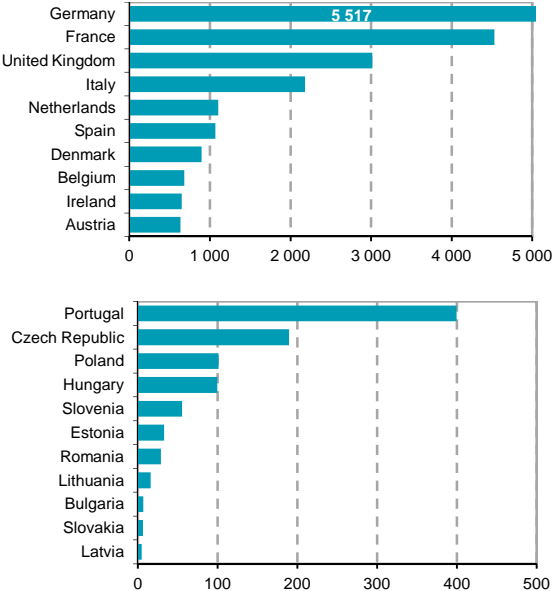


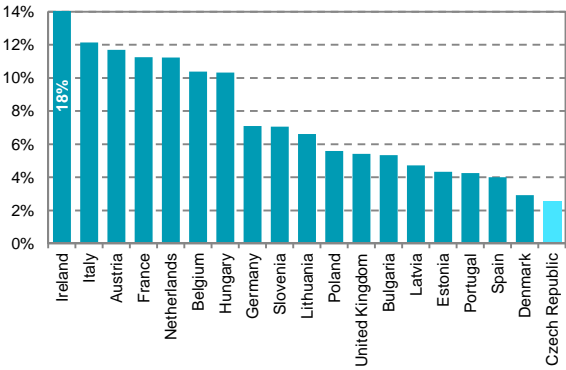
Figure E34 R&D expenditure in ICT sector, 2010
(EUR million)



Source: Eurostat

E ICT sector

Figure E35 R&D expenditure in ICT manufacturing*, 2010



* as a percentage of total manufacturing industries

Figure E36 R&D expenditure in Telecommunications**, 2010

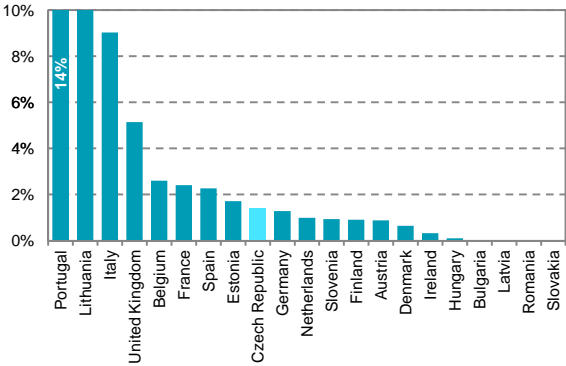
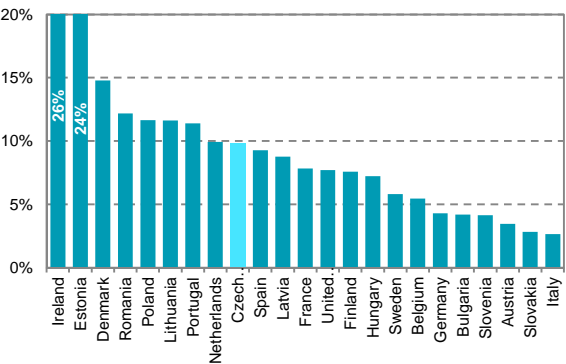


Figure E37 R&D expenditure in IT services**, 2010



** as a percentage of total bussines enterprise sector (BERD)

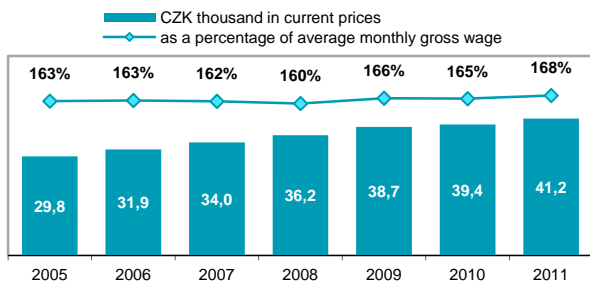
Source: Eurostat

E ICT sector

Table E5 Average monthly gross wage in ICT sector in the CR

	2009	2010	2011
Total	38 659	39 408	41 173
ICT manufacturing, total	23 885	23 880	24 337
<i>Ownership of enterprises</i>			
National enterprises	22 661	23 526	26 066
Enterprises under foreign control	24 191	23 983	23 878
<i>Size class of enterprises</i>			
small (0-49 employees)	22 307	21 984	23 188
medium (50-249 employees)	23 306	25 104	27 238
large (250+ employees)	24 390	23 980	23 751
ICT wholesale, total	32 606	34 580	35 126
<i>Ownership of enterprises</i>			
National enterprises	28 461	28 381	29 489
Enterprises under foreign control	40 912	46 221	46 704
<i>Size class of enterprises</i>			
small (0-49 employees)	30 273	32 391	32 204
medium (50-249 employees)	36 038	38 131	38 011
large (250+ employees)	43 648	41 017	45 912
Telecommunications, total	44 277	45 078	45 963
<i>Ownership of enterprises</i>			
National enterprises	25 149	25 634	29 009
Enterprises under foreign control	48 837	49 860	51 170
<i>Size class of enterprises</i>			
small (0-49 employees)	25 145	25 099	24 844
medium (50-249 employees)	36 538	34 512	35 407
large (250+ employees)	48 446	49 677	51 045
IT services total	45 713	45 208	47 960
<i>Ownership of enterprises</i>			
National enterprises	34 628	35 111	36 550
Enterprises under foreign control	57 919	56 690	60 747
<i>Size class of enterprises</i>			
small (0-49 employees)	32 469	32 790	34 572
medium (50-249 employees)	52 560	51 782	52 392
large (250+ employees)	56 934	54 808	58 951

Figure E38 Average monthly gross wage in ICT sector



Source: CZSO, Structural Business Statistics

E ICT sector

Figure E39 Average monthly gross wage in ICT manufacturing

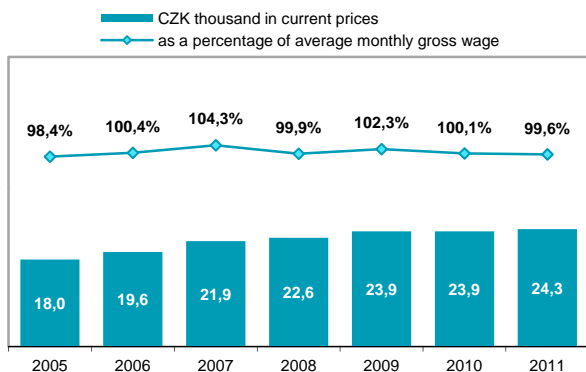


Figure E40 Average monthly gross wage in Telecommunications

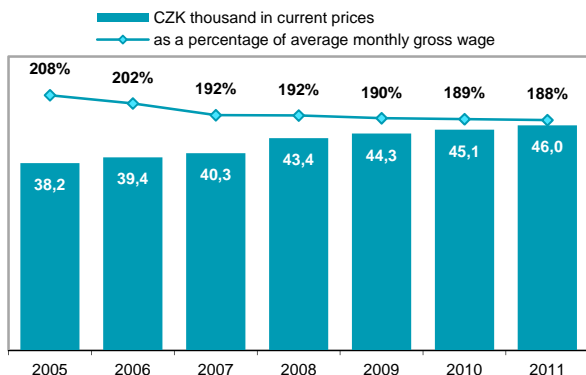
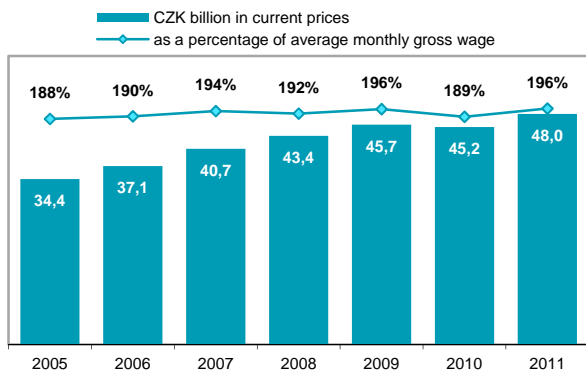


Figure E41 Average monthly gross wage in IT services



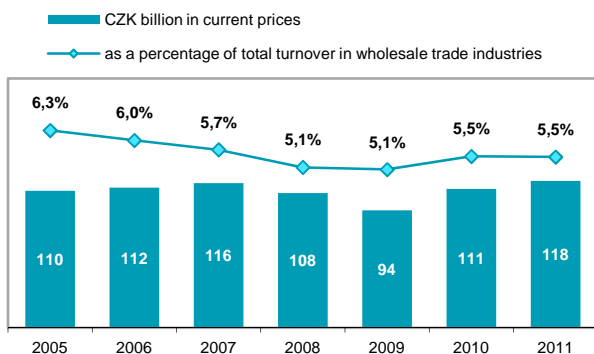
E ICT sector

Table E6 Turnover in ICT wholesale in the Czech Republic

CZK million

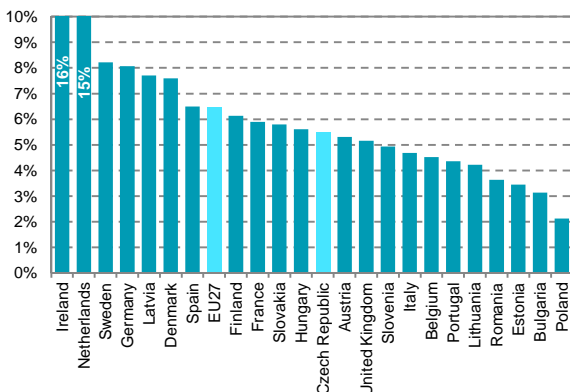
	2009	2010	2011
Total	94 287	111 453	117 972
Ownership of enterprises			
National enterprises	56 558	67 685	74 983
Foreign affiliates	37 728	43 768	42 989
Size class of enterprises			
Small (0-49 employees)	48 401	62 624	68 981
Medium (50-249 employees)	40 694	44 749	34 377
Large (250+ employees)	5 192	4 080	14 614

Figure E42 Turnover in ICT wholesale industries



Source: CZSO, Structural Business Statistics

Figure E43 Turnover in ICT wholesale industries, 2010 (as a percentage of total turnover in wholesale industries)



Source: Eurostat, Structural Business Statistics