

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 (ICT) and a provision of related services. For more details see: „**OECD Guide to Measuring the Information Society 2011**: www.oecd.org/sti/measuring-infoeconomy/guide“

ICT sector together with Content and media sector was already in 2007 recognized by the **United Nation Statistics Division** as a new alternative grouping of economic activities called information economy. The **information economy** sector is 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

ICT sector is divided into the **four main categories**: ICT manufacturing industries, ICT trade industries, Telecommunications and IT services. The ICT sector involves enterprises, which dominating activities belong to the **CZ-NACE groups and classes** 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 expenditures (source: **R&D annual survey – see chapter C**), were obtained from the annual structural survey of business entities from selected production industries (**SBS – Structural Business Statistics**). For more information about Czech SBS see: <https://www.czso.cz/csu/czso/annual-structural-business-statistics-methodology>

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

All 2016 data are preliminary.

The **Eurostat Structural Business Statistics Database** was used as a data source for the international comparison (except for R&D expenditure). More information about the data from the SBS, including definitions of individual indicators, is available at:

<http://ec.europa.eu/eurostat/web/structural-business-statistics/overview>

Further information on ICT sector can be found at (only in Czech):

<https://www.czso.cz/csu/czso/odvetvi-informacni-ekonomiky>

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Table E1 Employment in ICT sector in the Czech Republic

number of persons employed - headcount persons

	2014	2015	2016*
Total	143 425	147 389	157 796
ICT manufacturing, total	23 346	23 771	25 853
Manuf. of computers & electr. components	13 905	13 907	15 118
Manufacturing of communication equipment and consumer electronics	9 440	9 864	10 734
ICT services, total	120 080	123 618	131 943
ICT wholesale	12 356	11 837	11 383
Telecommunications	18 189	17 733	18 997
IT services**	89 535	94 048	101 563

* Preliminary data

** Programming, consultancy & related IT activities including data processing

Figure E1 Employment in the ICT sector

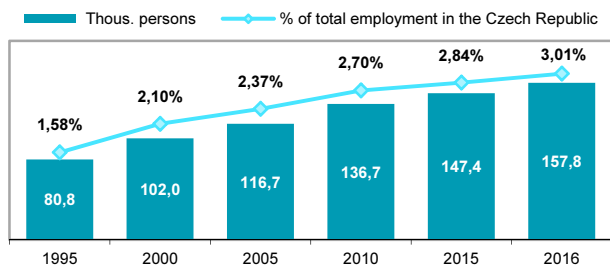


Figure E2 Employment in ICT sector by industry

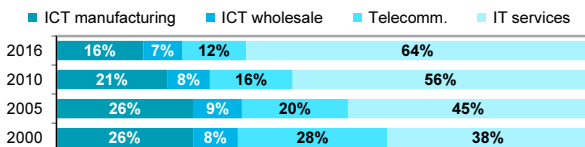


Figure E3 Employment in ICT sector by ownerships; 2016

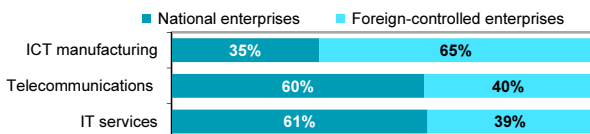
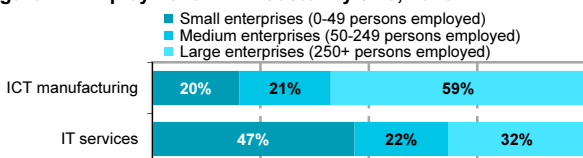


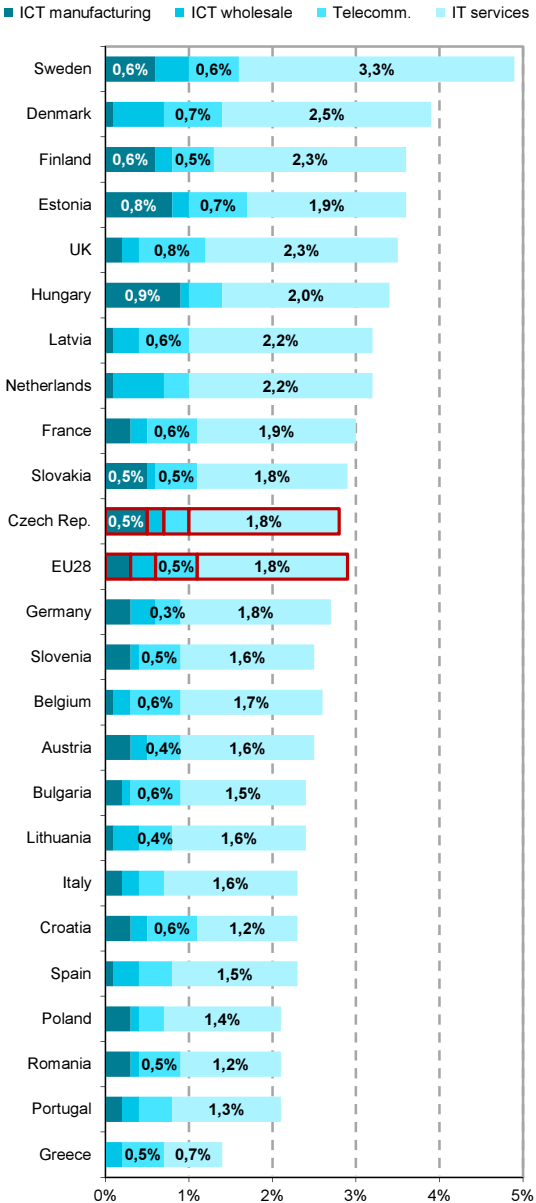
Figure E4 Employment in ICT sector by size; 2016



Source: CZSO, Structural Business Statistics

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Figure E5 Employment in the ICT sector; 2015*
(as a percentage of total employment)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Figure E6 Employment in ICT manufacturing in the Czech Rep.

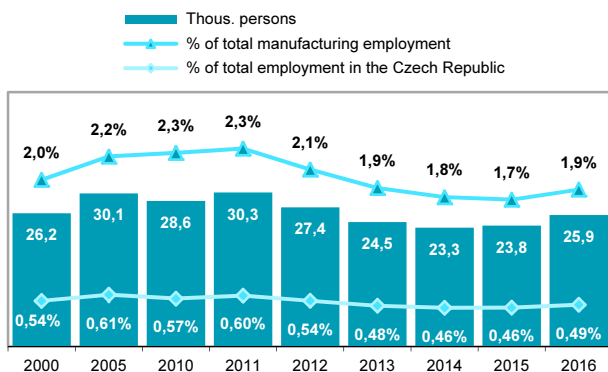


Figure E7 Employment in Telecommunications in the Czech Rep.

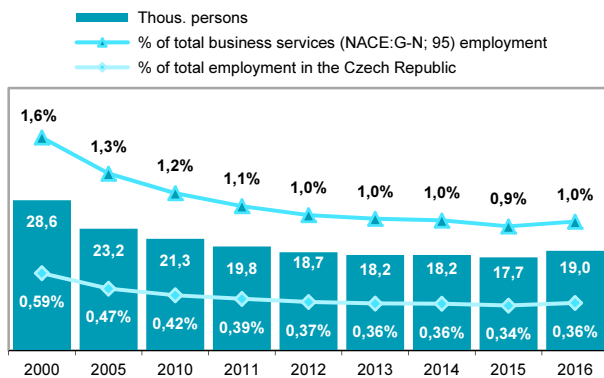
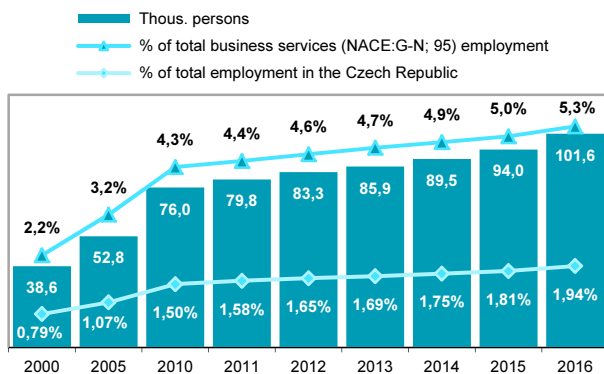


Figure E8 Employment in IT services in the Czech Republic



Source: CZSO, Structural Business Statistics

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Figure E9 Employment in ICT manufacturing; 2015*

(as a percentage of total manufacturing employment)

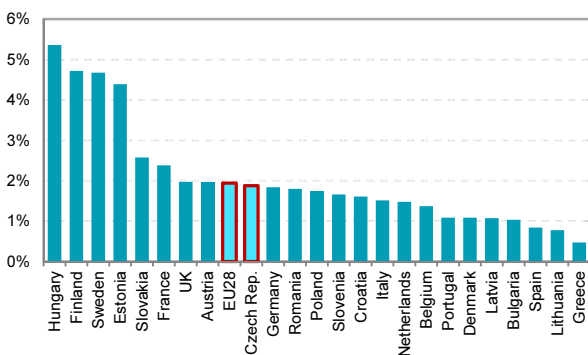


Figure E10 Employment in Telecommunications; 2015*

(as a percentage of total business enterprise sector employment)

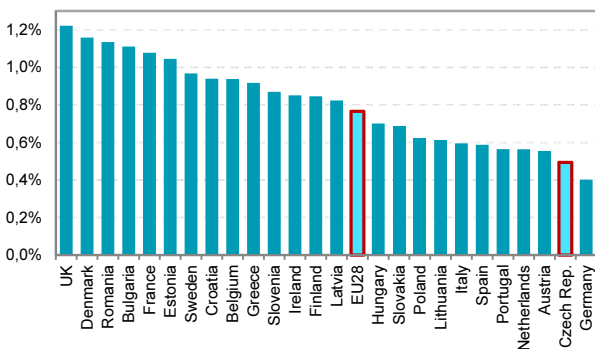
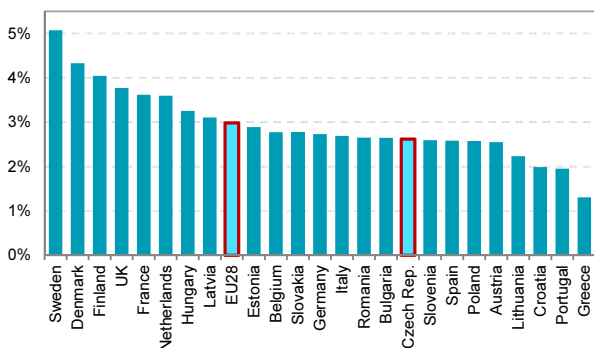


Figure E11 Employment in IT services industries; 2015*

(as a percentage of total business enterprise sector employment)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Table E2 Production value in the ICT sector in the Czech Rep.

CZK million, current prices

	2014	2015	2016*
Total	513 330	554 630	572 949
ICT manufacturing, total	211 726	219 645	220 367
Manuf. of computers & electron. components	156 516	168 030	168 686
Manufacturing of communication equipment and consumer electronics	55 210	51 615	51 681
ICT services, total	301 603	334 985	352 582
ICT wholesale	22 547	22 660	22 485
Telecommunications	100 678	113 128	117 365
IT services**	178 378	199 197	212 732

* Preliminary data

** Programming, consultancy & related IT activities including data processing

Figure E12 Production value in the ICT sector

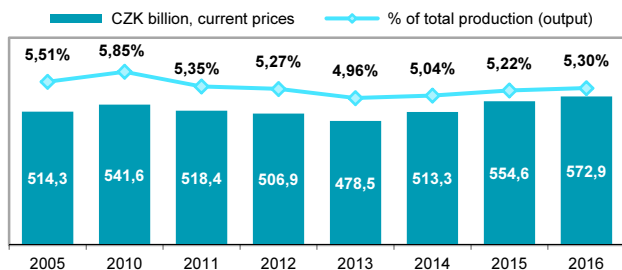


Figure E13 Production value in ICT sector by industry

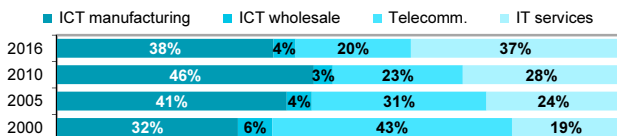


Figure E14 Production value in ICT sector by ownerships; 2016

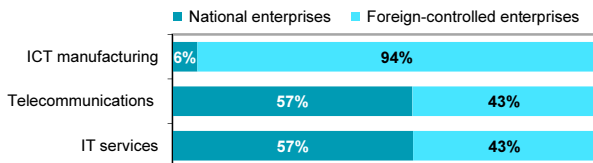
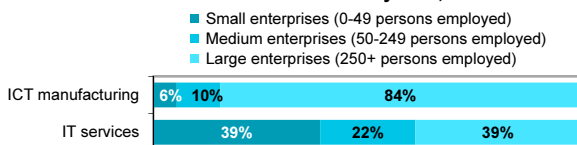


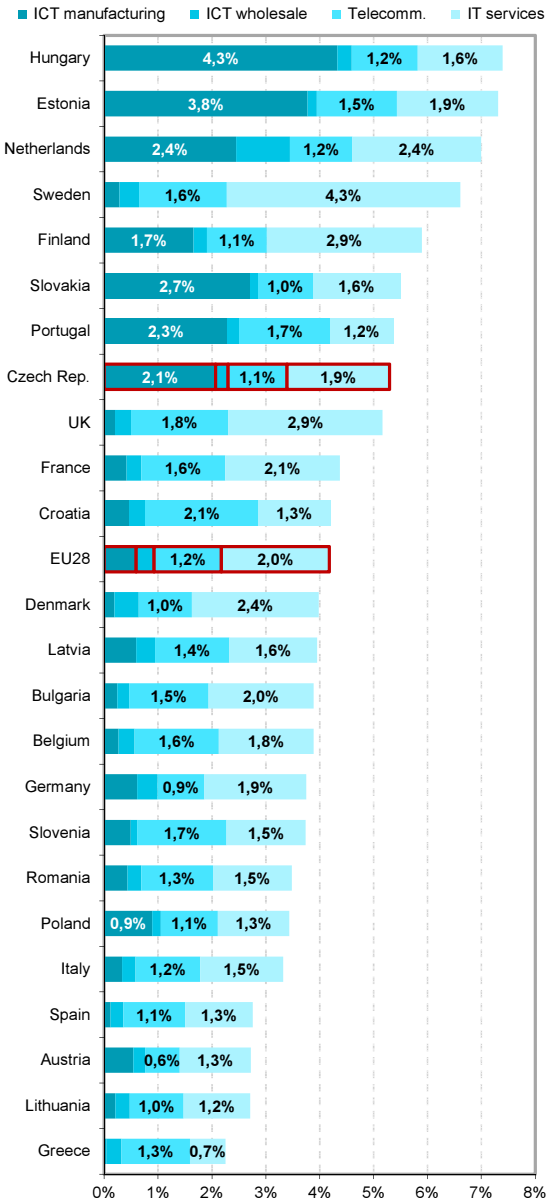
Figure E15 Production value in ICT sector by size; 2016



Source: CZSO, Structural Business Statistics

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**Figure E16 Production value in the ICT sector; 2015*
(as a percentage of total production)**



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Figure E17 Production value in ICT manufacturing

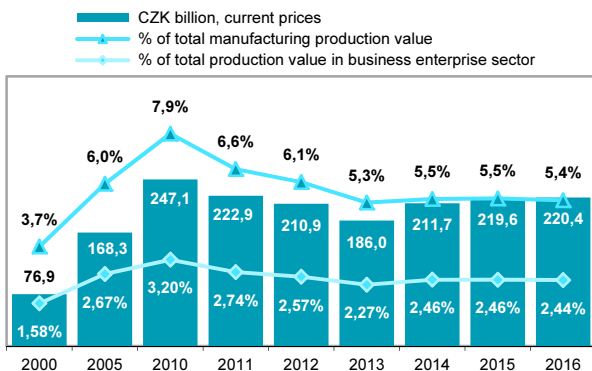


Figure E18 Production value in Telecommunications

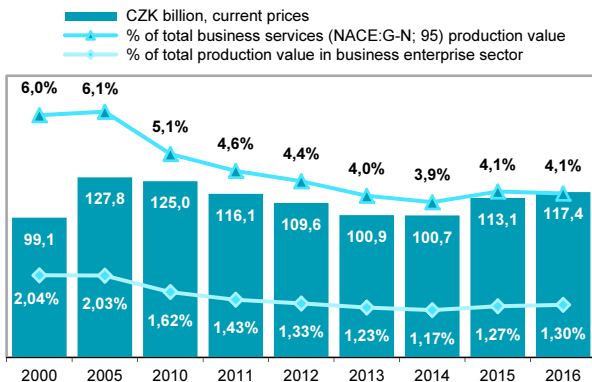
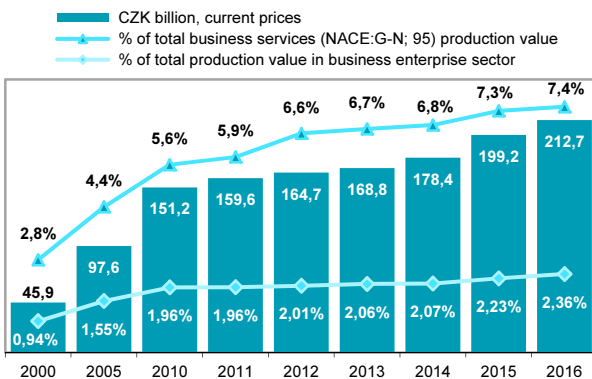


Figure E19 Production value in IT services



Source: CZSO, Structural Business Statistics

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Figure E20 Production value in ICT manufacturing; 2015*
(as a percentage of total manufacturing production value)

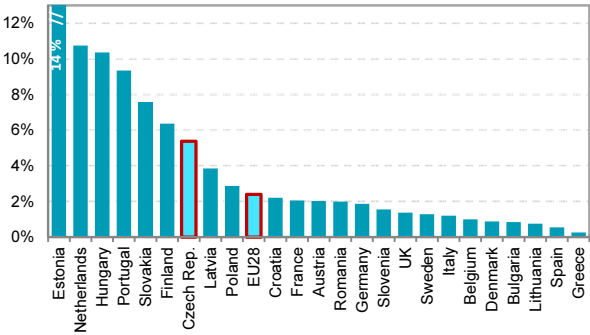


Figure E21 Production value in Telecommun.; 2015*
(as a percentage of total production value in business sector)

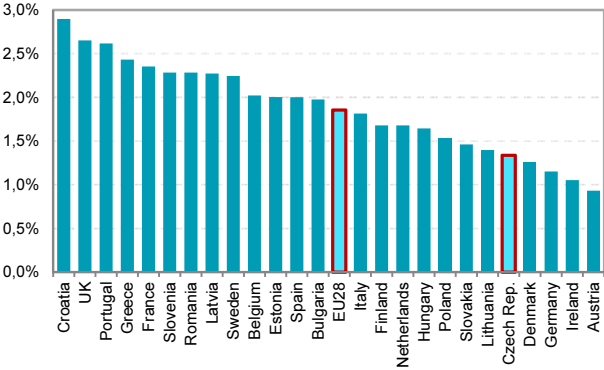
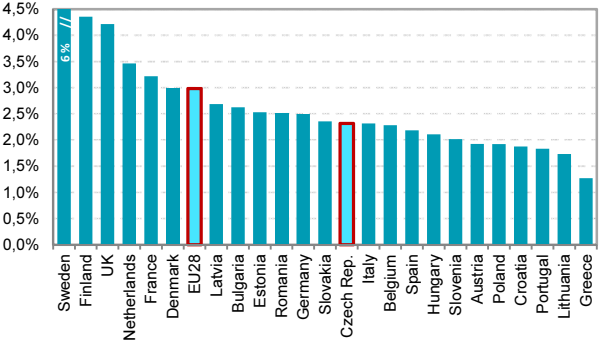


Figure E22 Production value in IT services; 2015*
(as a percentage of total production value in business sector)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Table E3 Value added of the ICT sector in the Czech Republic

CZK million, current prices

	2014	2015	2016*
Total	165 899	174 965	182 453
ICT manufacturing, total	17 046	15 416	15 749
Manuf. of computers & electron. components	8 728	9 123	8 252
Manufacturing of communication equipment and consumer electronics	8 318	6 293	7 497
ICT services, total	148 854	159 549	166 704
ICT wholesale	11 105	11 738	11 703
Telecommunications	46 543	45 972	47 142
IT services**	91 206	101 839	107 859

* Preliminary data

** Programming, consultancy & related IT activities including data processing

Figure E23 Value added of the ICT sector

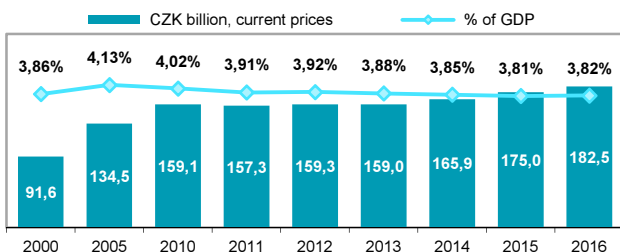


Figure E24 Value added of ICT sector by industry

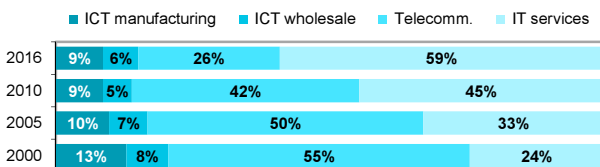


Figure E25 Value added of ICT sector by ownerships; 2016

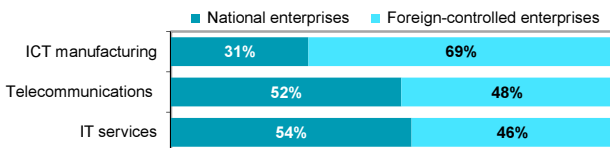
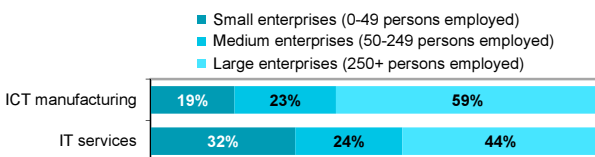


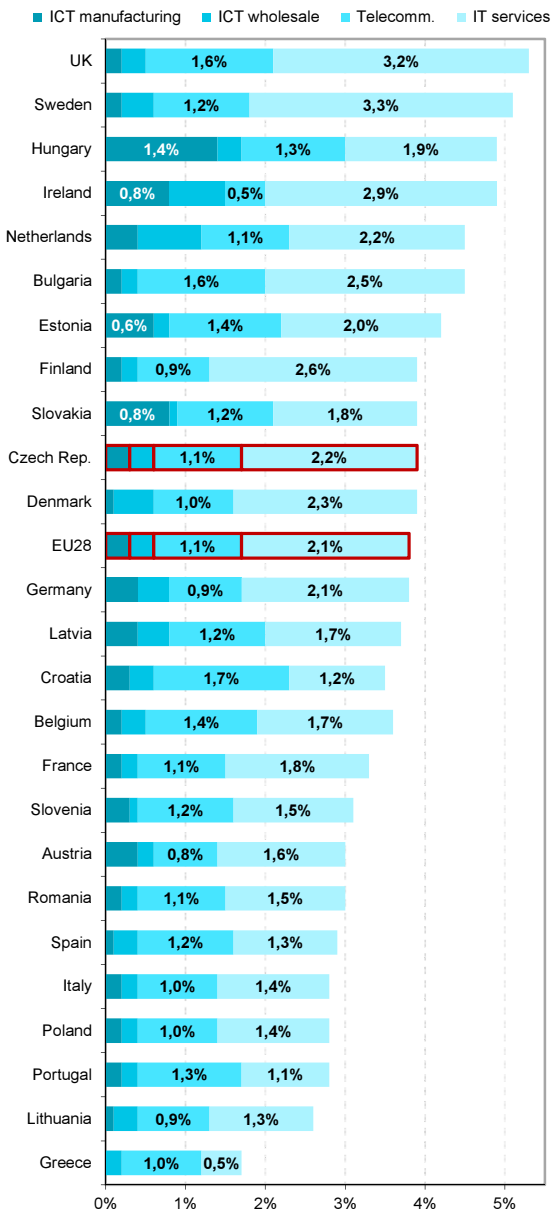
Figure E26 Value added in ICT sector by size; 2016



Source: CZSO, Structural Business Statistics

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**Figure E27 Value added of ICT sector; 2015*
(as a percentage of GDP)**



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Figure E28 Value added of ICT manufacturing

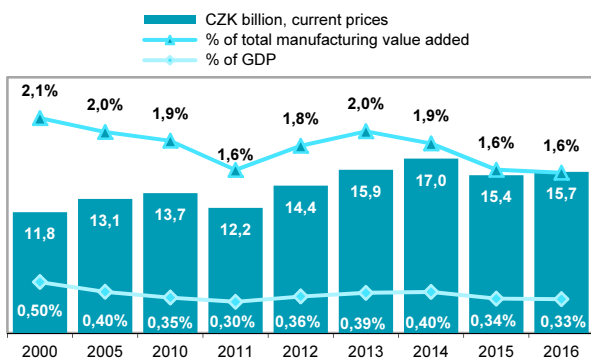


Figure E29 Value added of Telecommunications

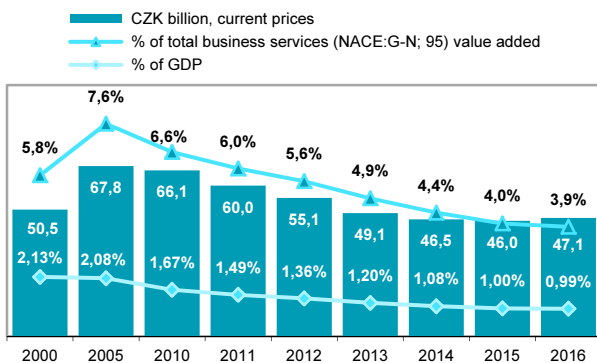
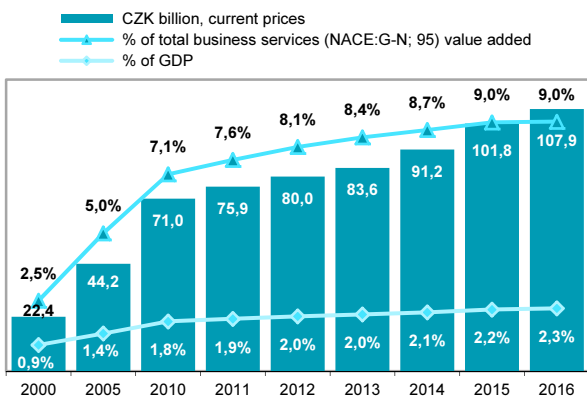


Figure E30 Value added of IT services



Source: CZSO, Structural Business Statistics

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Figure E31 Value added of ICT manufacturing; 2015*
(as a percentage of total manufacturing value added)

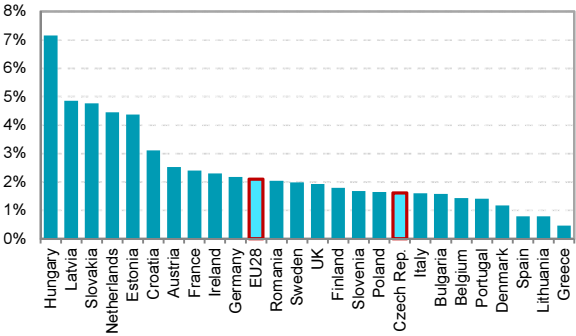


Figure E32 Value added of Telecommunications; 2015*
(as a percentage of total value added in business sector)

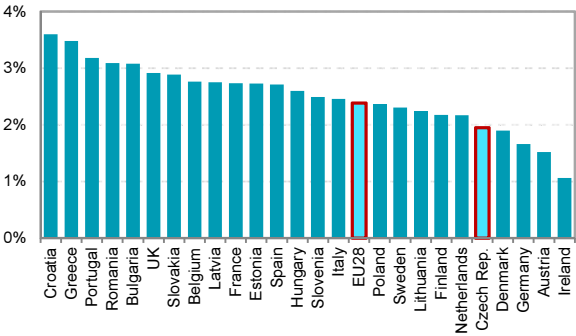
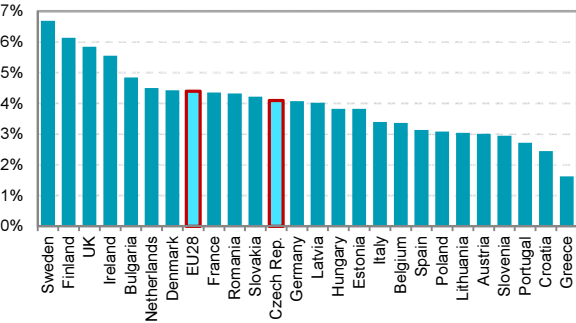


Figure E33 Value added of IT services; 2015*
(as a percentage of total value added in business sector)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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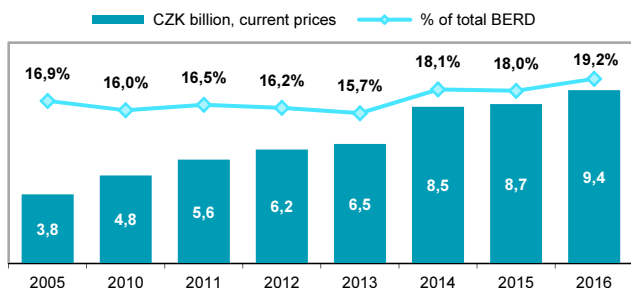
Table E4 R&D expenditure in the ICT sector in the Czech Republic

CZK million, current prices

	2014	2015	2016
Total	8 515	8 661	9 421
ICT manufacturing, total	625	500	532
Manuf. of computers & electron. components	208	161	174
Manufacturing of communication equipment and consumer electronics	417	338	358
ICT services, total	7 889	8 162	8 889
ICT wholesale	140	134	100
Telecommunications	603	633	685
IT services*	7 147	7 395	8 104

* Programming, consultancy & related IT activities including data processing

Figure E34 R&D expenditure in the ICT sector



BERD - Intramural R&D Expenditure in the Business Enterprise Sector

Figure E35 R&D expenditure in ICT sector by industry

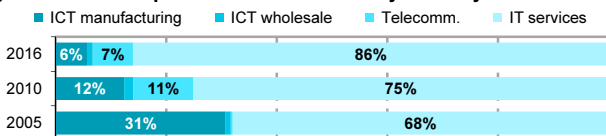


Figure E36 R&D expenditure in ICT sector by ownerships; 2016

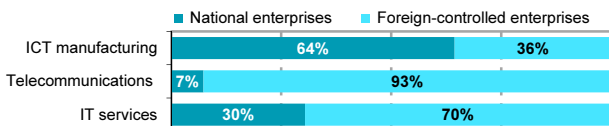
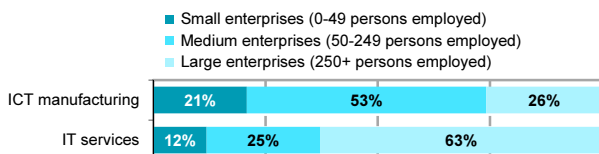


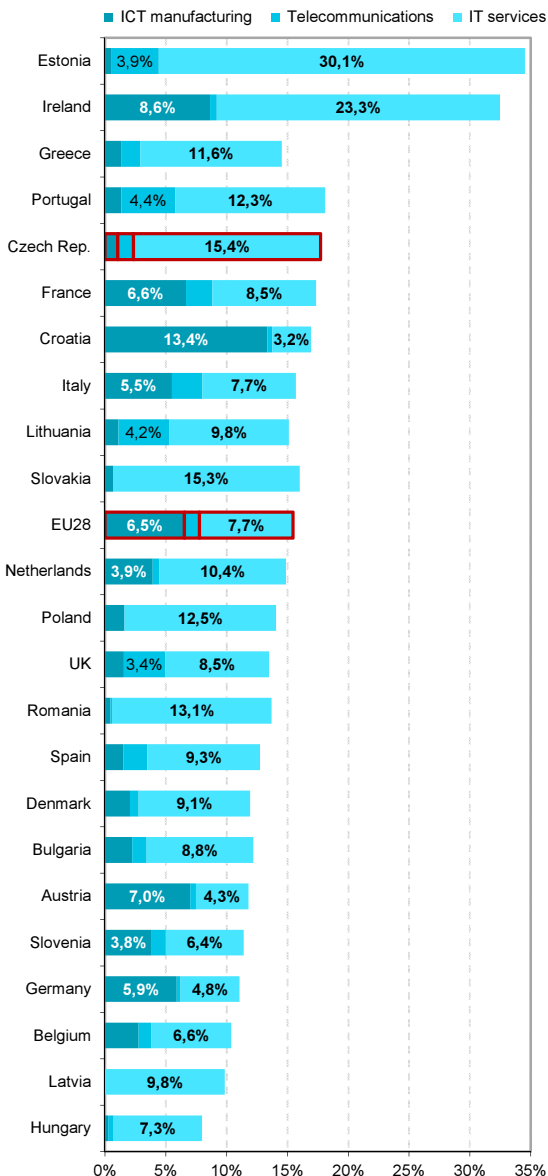
Figure E37 R&D expenditure in ICT sector by size; 2016



Source: CZSO, Annual R&D survey

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Figure E38 R&D expenditure in the ICT sector; 2015*
(as a percentage of total BERD)



BERD - Intramural R&D Expenditure in the Business Enterprise Sector

* or the latest year available

Source: CZSO calculations based on the Eurostat STI Database

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Figure E39 R&D expenditure in ICT manufacturing

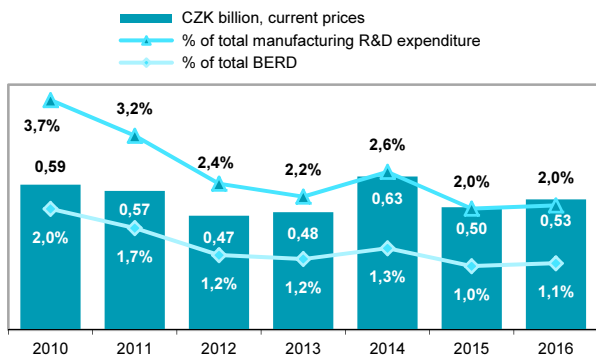


Figure E40 R&D expenditure in Telecommunications

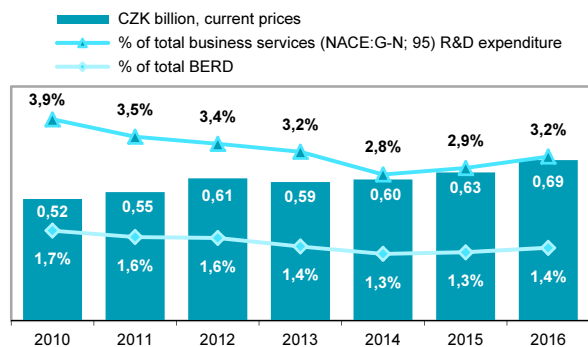
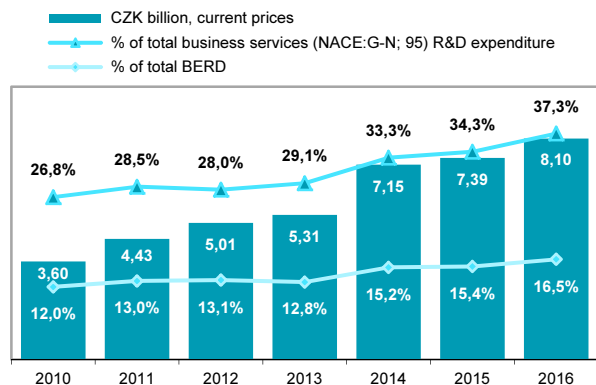


Figure E41 R&D expenditure in IT services



BERD - Intramural R&D Expenditure in the Business Enterprise Sector

Source: CZSO, Annual R&D survey

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Figure E42 R&D expenditure in ICT manufacturing; 2015*
(as a percentage of total manufacturing R&D expenditure)

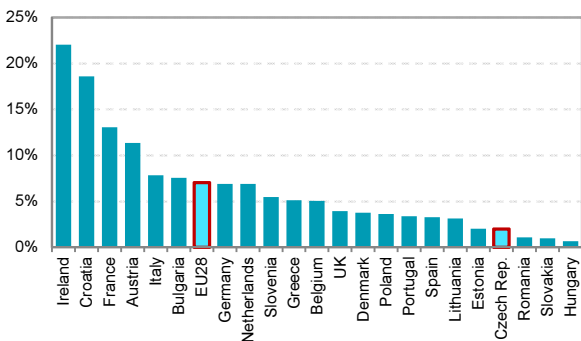


Figure E43 R&D expenditure in Telecommun.; 2015*
(as a percentage of total BERD)

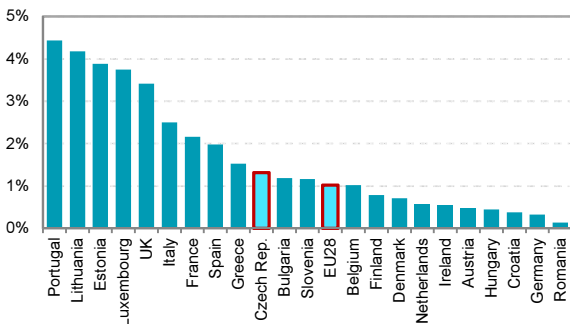
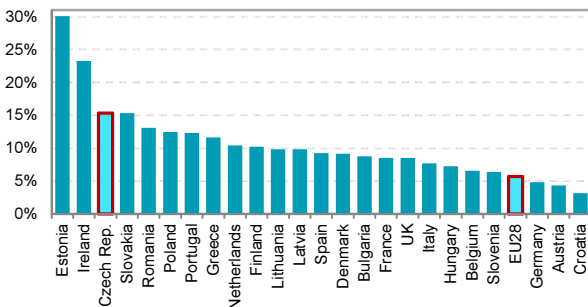


Figure E44 R&D expenditure in IT services; 2015*
(as a percentage of total BERD)



BERD - Intramural R&D expenditure in the business enterprise sector
* or the latest year available

Source: CZSO calculations based on the Eurostat STI Database