

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, ICT trade, Telecommunications and IT services. The ICT sector involves enterprises, which dominating activities belong to the **CZ-NACE groups and classes** as follows:

ICT manufacturing:

- 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:

- Software publishing (58.2) and Computer programming, consultancy and related activities (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 2017 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

	2015	2016	2017*
Total	147 389	155 749	163 109
ICT manufacturing, total	23 771	24 951	25 362
Manuf. of computers & electr. components	13 907	14 314	14 826
Manufacturing of communication equipment and consumer electronics	9 864	10 637	10 536
ICT services, total	123 618	130 798	137 746
ICT wholesale	11 837	11 211	11 349
Telecommunications	17 733	19 125	20 371
IT services**	94 048	100 462	106 026

* Preliminary data

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

Figure E1 Employment in the ICT sector

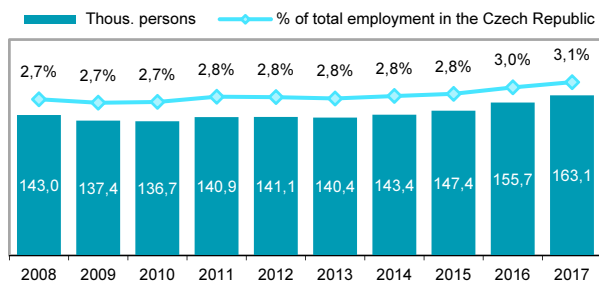


Figure E2 Employment in ICT sector by industry

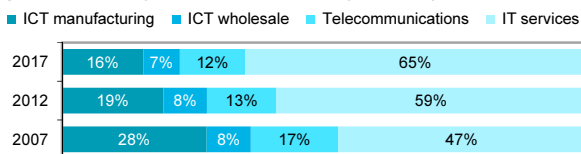


Figure E3 Employment in ICT sector by ownerships; 2017

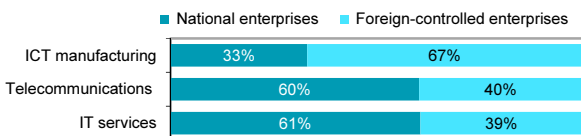
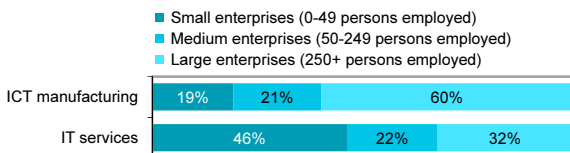


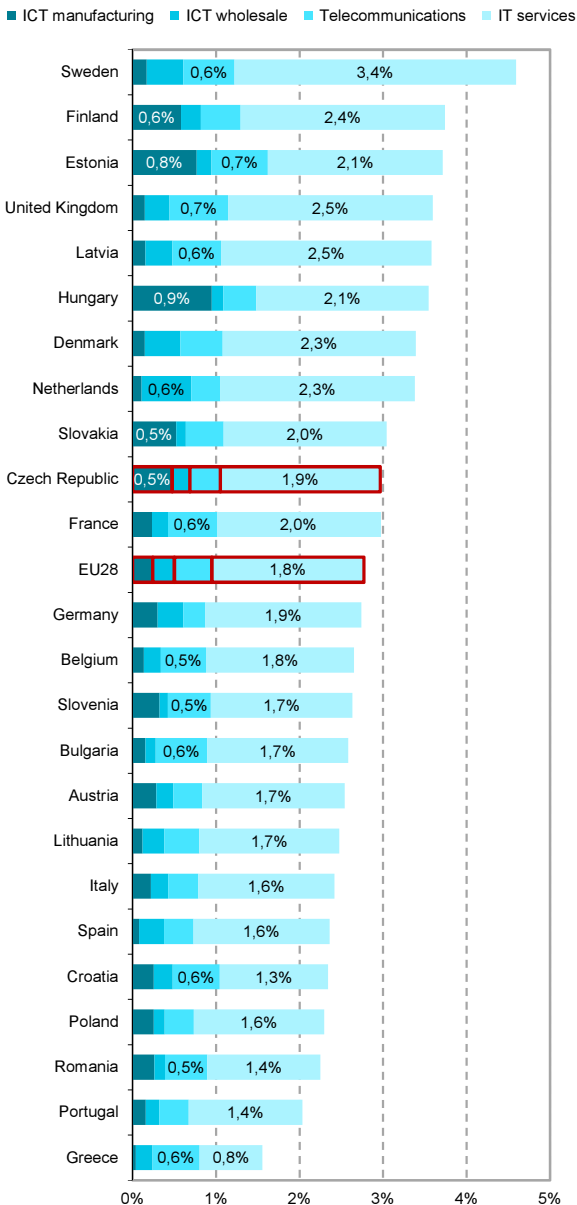
Figure E4 Employment in ICT sector by size; 2017



Source: CZSO, Structural Business Statistics

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Figure E5 Employment in the ICT sector; 2016*
(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

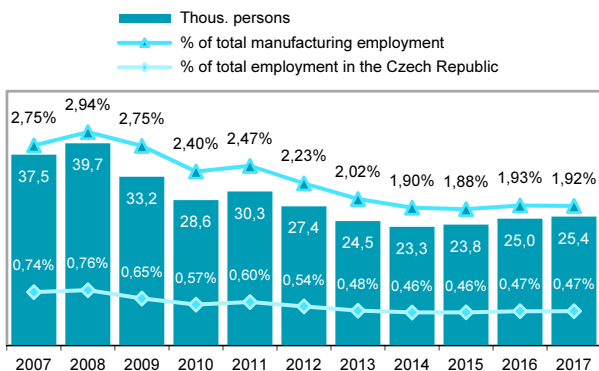


Figure E7 Employment in Telecommunications

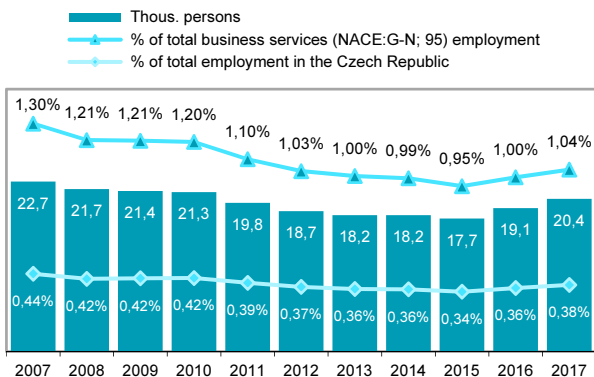
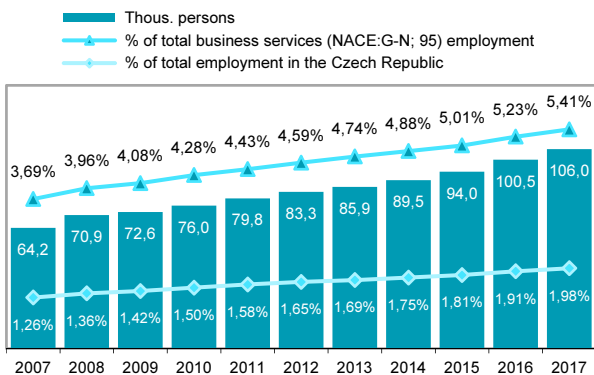


Figure E8 Employment in IT services



Source: CZSO, Structural Business Statistics

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Figure E9 Employment in ICT manufacturing; 2016*
(as a percentage of total manufacturing employment)

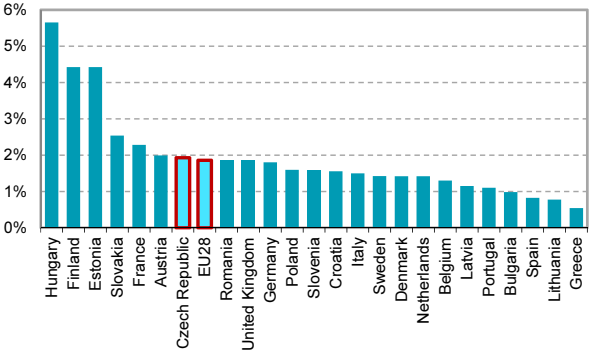


Figure E10 Employment in Telecommunications; 2016*
(as a percentage of total business enterprise sector employment)

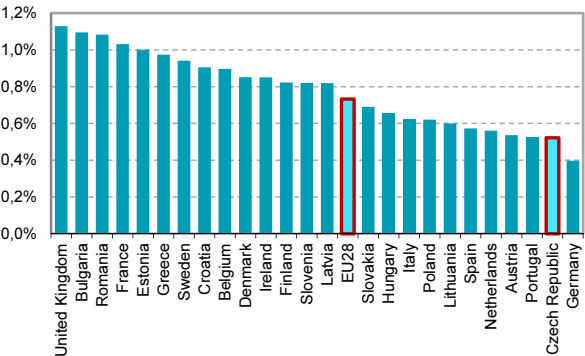
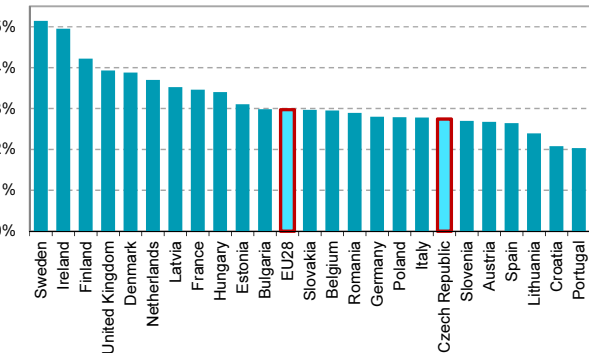


Figure E11 Employment in IT services industries; 2016*
(as a percentage of total business enterprise sector employment)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Table E2 Turnover in the ICT sector in the Czech Republic

CZK million, current prices

	2015	2016	2017*
Total	731 591	738 861	788 218
ICT manufacturing, total	226 828	226 859	233 854
Manuf. of computers & electr. components	173 772	174 461	179 868
Manufacturing of communication equipment and consumer electronics	53 057	52 398	53 986
ICT services, total	504 763	512 002	554 364
ICT wholesale	162 425	152 745	166 933
Telecommunications	118 336	121 803	125 708
IT services**	224 002	237 453	261 722

* Preliminary data

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

Figure E12 Turnover in the ICT sector

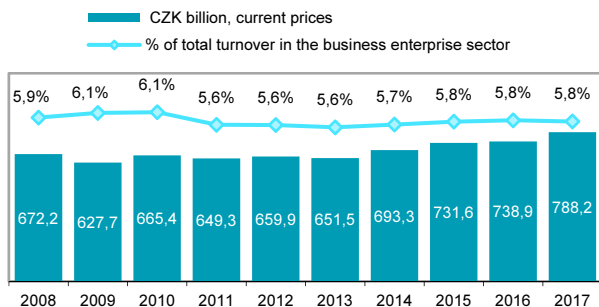


Figure E13 Turnover in ICT sector by industry

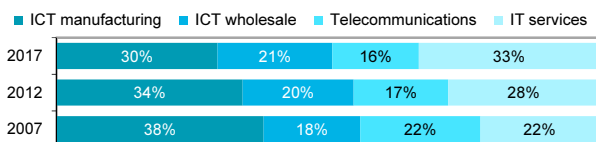


Figure E14 Turnover in ICT sector by ownerships; 2017

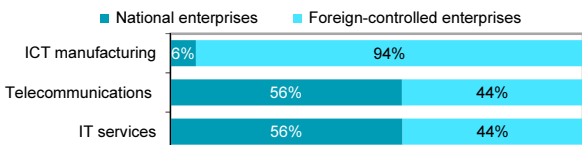
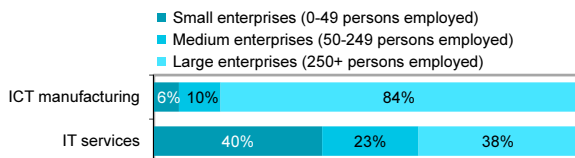


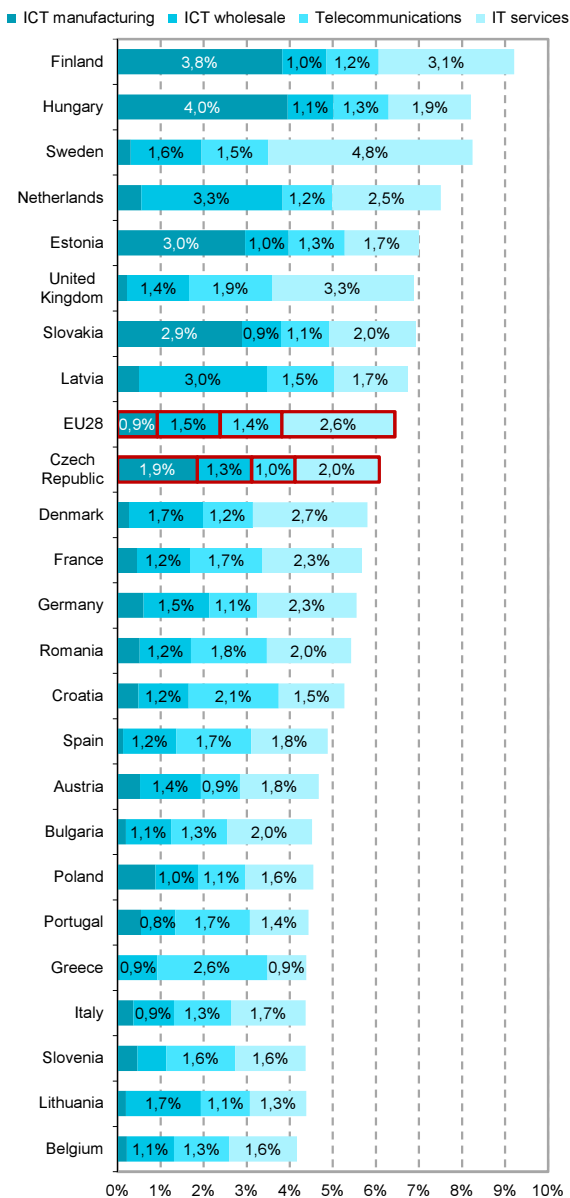
Figure E15 Turnover in ICT sector by size; 2017



Source: CZSO, Structural Business Statistics

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Figure E16 Turnover in the ICT sector; 2016*
(as a percentage of total turnover in the business enterprise sector)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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Figure E17 Turnover in ICT manufacturing

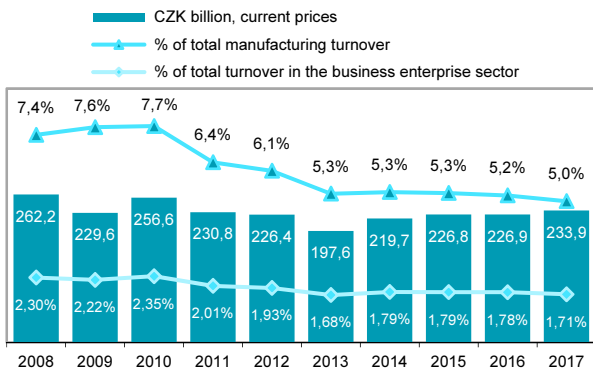


Figure E18 Turnover in Telecommunications

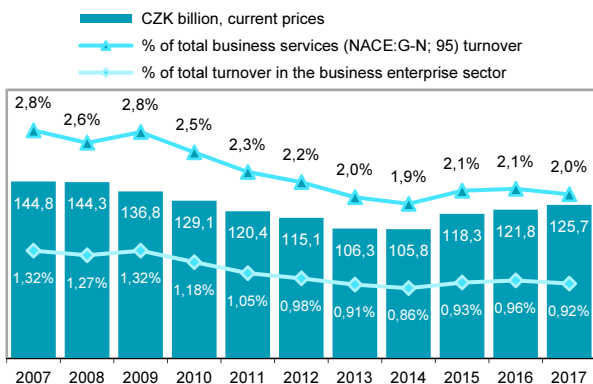
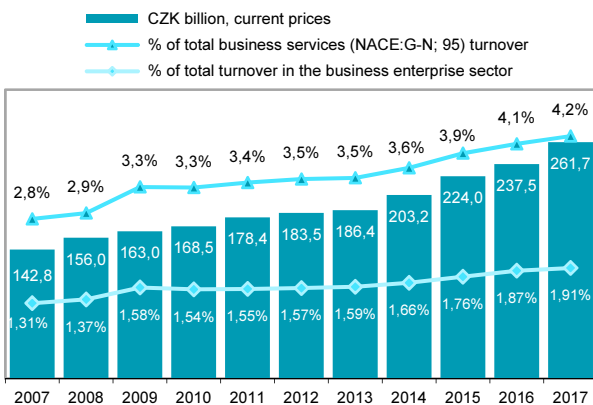


Figure E19 Turnover in IT services



Source: CZSO, Structural Business Statistics

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Figure E20 Turnover in ICT manufacturing; 2016*
(as a percentage of total manufacturing turnover)

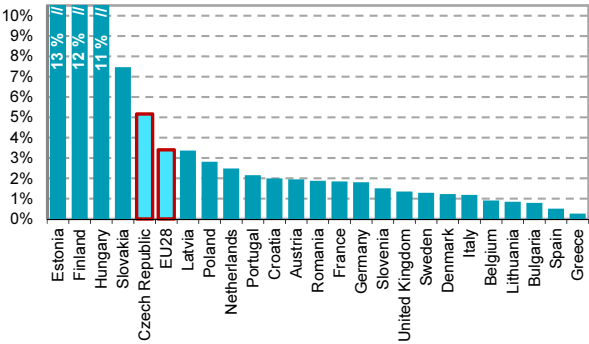


Figure E21 Turnover in Telecommunications; 2016*
(as a percentage of total turnover in the business enterprise sector)

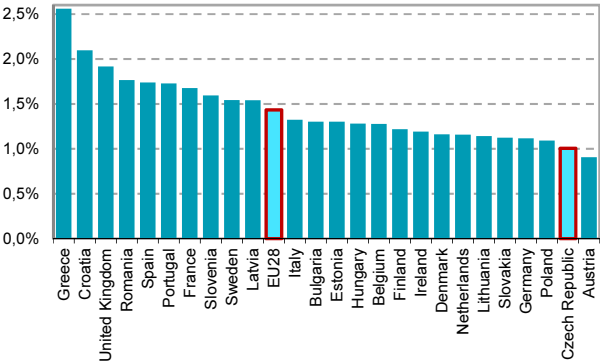
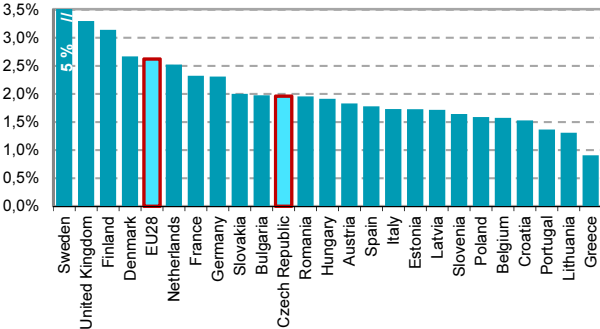


Figure E22 Turnover in IT services; 2016*
(as a percentage of total turnover in the business enterprise sector)



* 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	183 305
ICT manufacturing, total	17 046	15 416	16 889
Manuf. of computers & electr. components	8 728	6 293	7 447
Manufacturing of communication equipment and consumer electronics	8 318	9 123	9 442
ICT services, total	148 854	159 549	166 416
ICT wholesale	11 105	11 738	11 659
Telecommunications	46 543	45 972	46 983
IT services*	91 206	101 839	107 774

* Programming, consultancy & related IT activities including data processing

Figure E23 Value added of the ICT sector

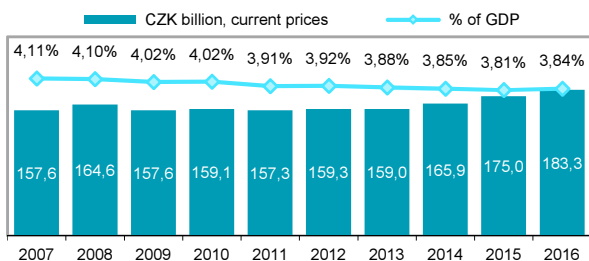


Figure E24 Value added of ICT sector by industry

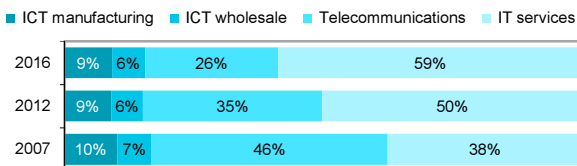


Figure E25 Value added of ICT sector by ownerships; 2016

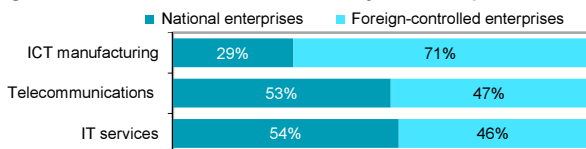
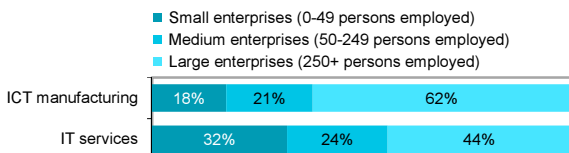


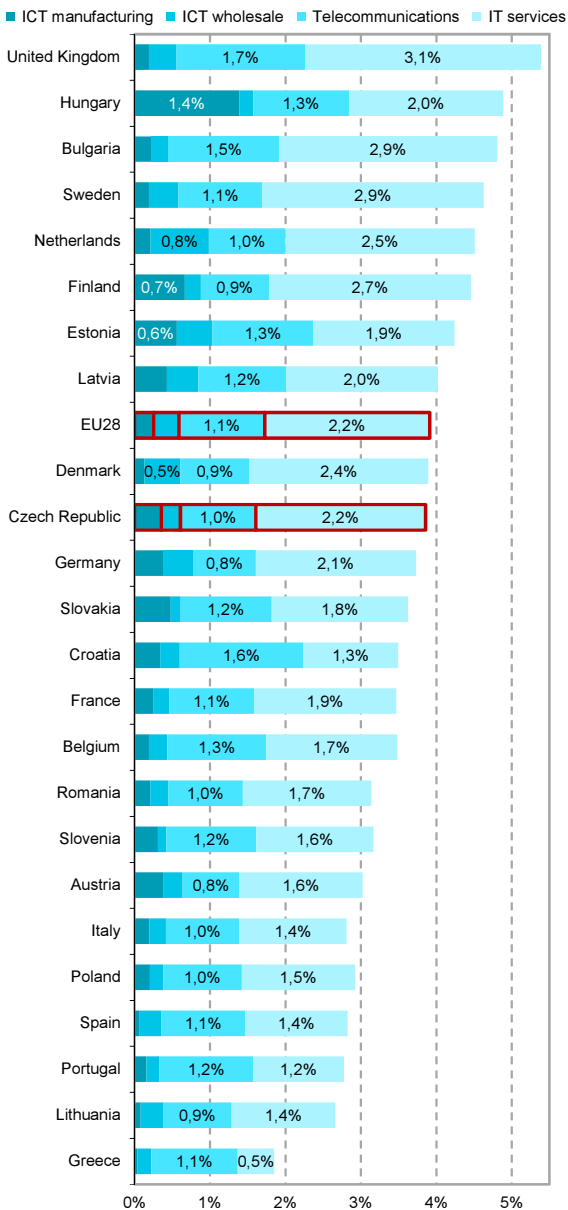
Figure E26 Value added in ICT sector by size; 2016



Source: CZSO, Structural Business Statistics

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Figure E27 Value added of ICT sector; 2016*
(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

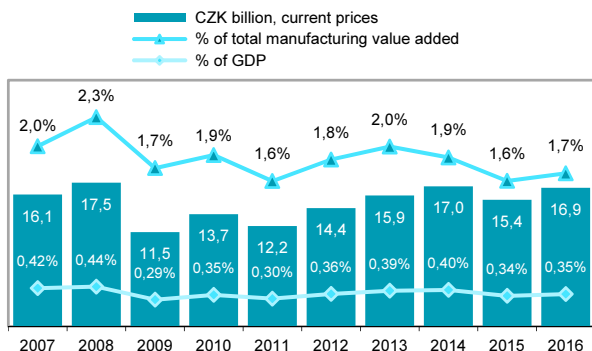


Figure E29 Value added of Telecommunications

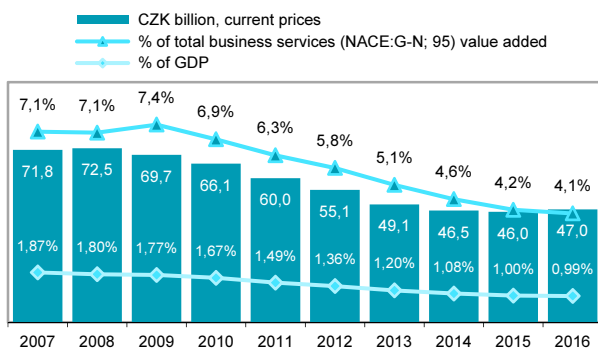
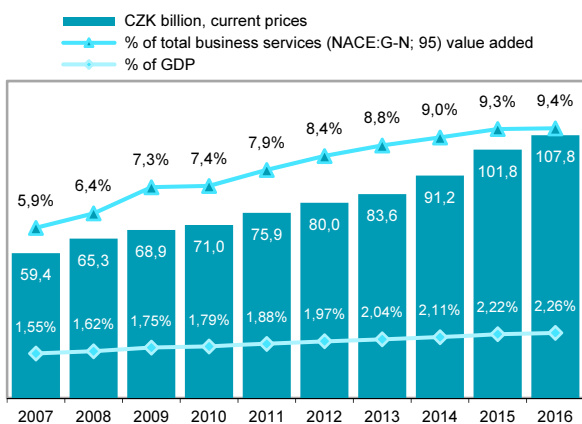


Figure E30 Value added of IT services



Source: CZSO, Structural Business Statistics

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Figure E31 Value added of ICT manufacturing; 2016*
(% of total manufacturing value added)

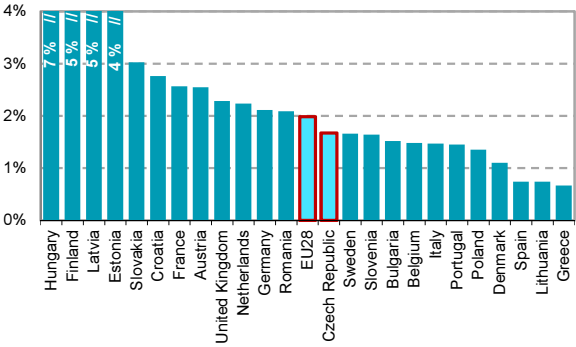


Figure E32 Value added of Telecommunications; 2016*
(% of total value added in the business enterprise sector)

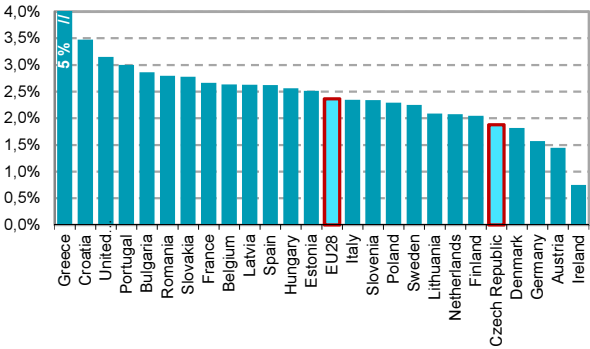
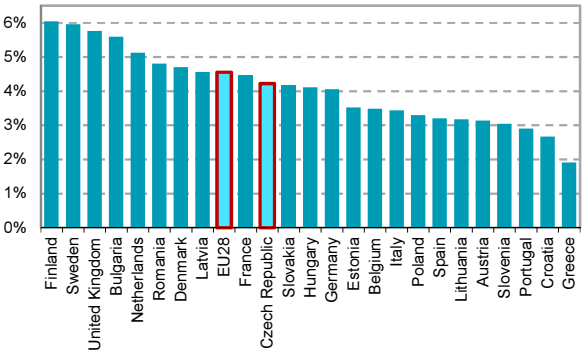


Figure E33 Value added of IT services; 2016*
(% of total value added in the business enterprise sector)



* or the latest year available

Source: CZSO calculations based on the Eurostat SBS database

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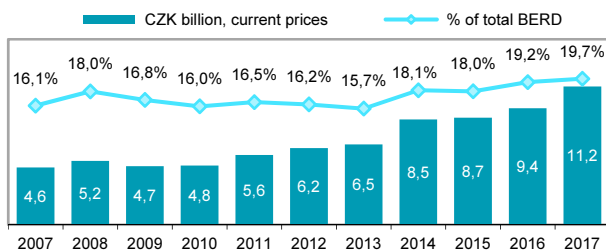
Tab. E4 R&D expenditure in the ICT sector in the Czech Republic

CZK million, current prices

	2015	2016	2017
Total	8 659	9 417	11 180
ICT manufacturing, total	500	532	512
Manuf. of computers & electron. components	161	174	202
Manufacturing of communication equipment and consumer electronics	338	358	310
ICT services, total	8 159	8 885	10 668
ICT wholesale	134	100	87
Telecommunications	630	682	717
IT services*	7 395	8 104	9 863

* 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

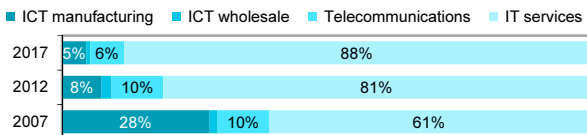


Figure E36 R&D expenditure in ICT sector by ownerships; 2017

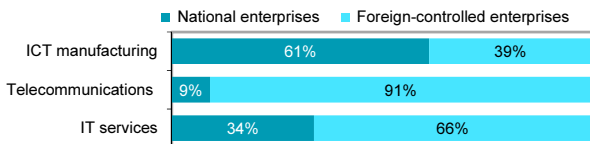
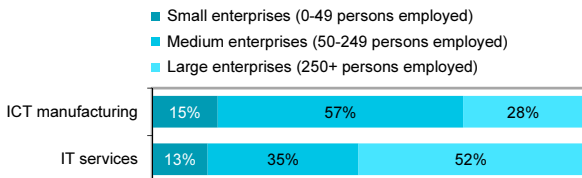


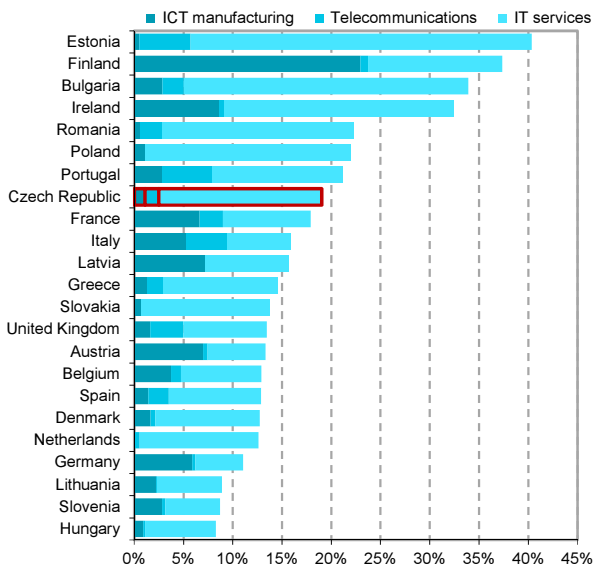
Figure E37 R&D expenditure in ICT sector by size; 2017



Source: CZSO, Annual R&D survey

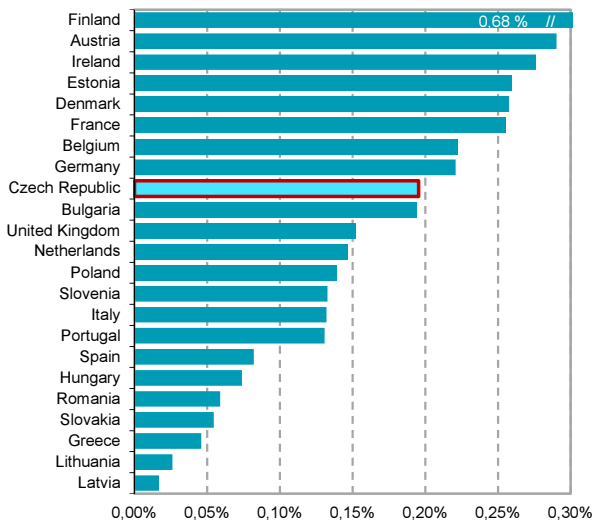
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Figure E38 R&D expenditure in the ICT sector; 2016*
(as a percentage of total BERD)



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

Figure E39 Total R&D expenditure in the ICT sector; 2016*
(as a percentage of GDP)



* Belgium, Ireland, Germany, Greece, Austria - 2015, France - 2014

Source: CZSO calculations based on the Eurostat STI Database

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Figure E40 R&D expenditure in ICT manufacturing

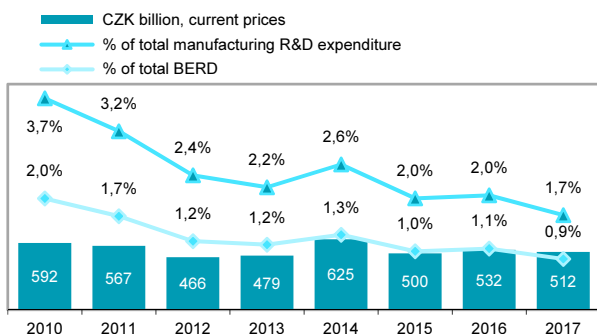


Figure E41 R&D expenditure in Telecommunications

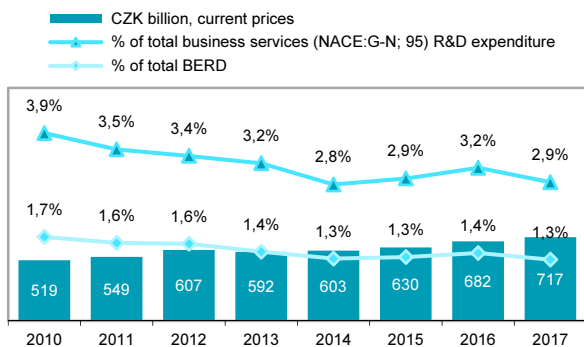
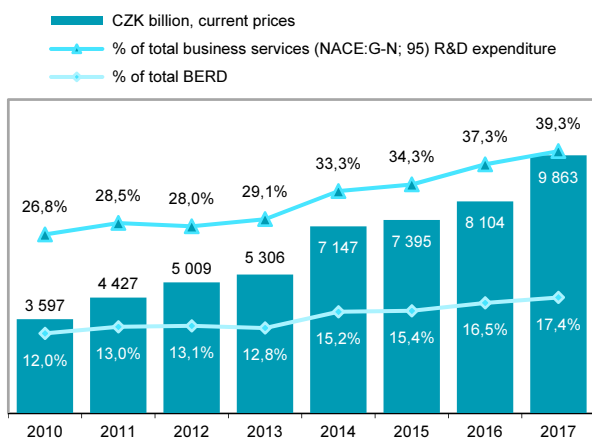


Figure E42 R&D expenditure in IT services



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

Source: CZSO, Annual R&D survey

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Figure E43 R&D expenditure in ICT manufacturing; 2016*
(as a percentage of total manufacturing R&D expenditure)

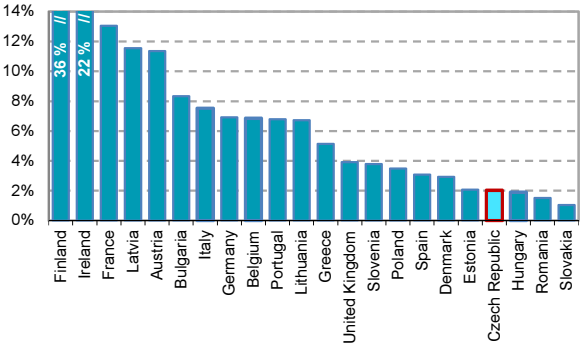


Figure E44 R&D expenditure in Telecommunications; 2016*
(as a percentage of total BERD)

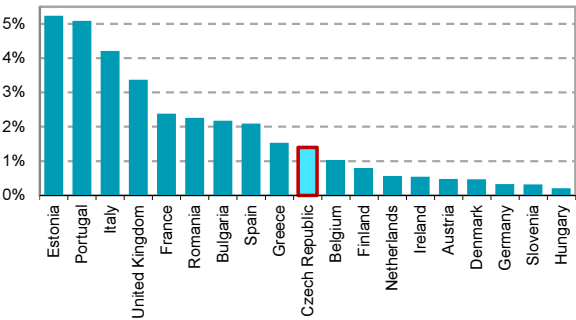
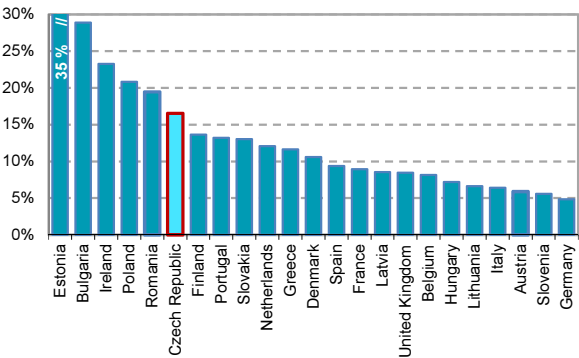


Figure E45 R&D expenditure in IT services; 2016*
(as a percentage of total BERD)



* Belgium, Ireland, Germany, Greece, Austria - 2015, France - 2014

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

Source: CZSO calculations based on the Eurostat STI Database