

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.

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:

<https://unstats.un.org/unsd/EconStatKB/KnowledgebaseArticle10286.aspx>

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 2018 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>

Data for international comparisons refer to the reported or nearest available year.

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

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

E ICT sector

Table E1 Employment in the ICT sector in Czechia

Number of persons employed - headcount persons

	2016	2017	2018
Total	157 142	164 209	169 202
ICT manufacturing, total	25 292	25 298	24 227
Manuf. of computers & electr. components	14 661	14 807	14 242
Manufacturing of communication equipment and consumer electronics	10 630	10 492	9 985
ICT services, total	131 850	138 911	144 974
ICT wholesale	11 160	11 127	11 460
Telecommunications	19 175	20 459	21 988
IT services	101 515	107 325	111 526

Figure E1 Employment in the ICT sector

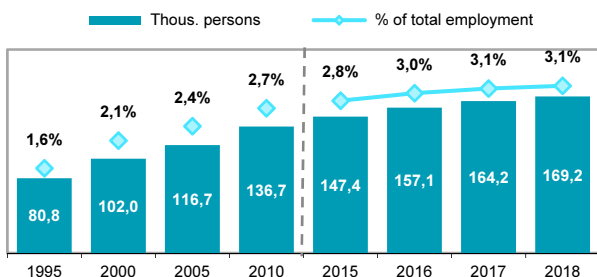


Figure E2 Employment in the ICT sector, by industry

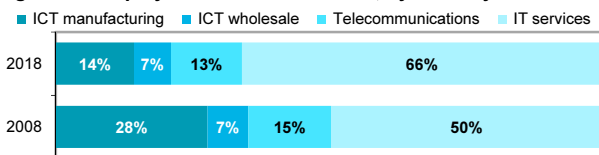


Figure E3 Employment in the ICT sector, by ownership; 2018

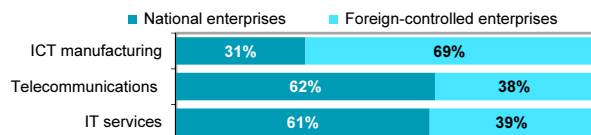
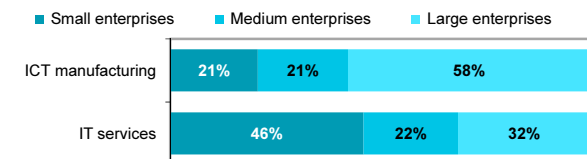


Figure E4 Employment in the ICT sector, by size; 2018



Source: CZSO, Structural Business Statistics

E ICT sector

Figure E5 Employment in the ICT sector; 2017
(% of total employment)

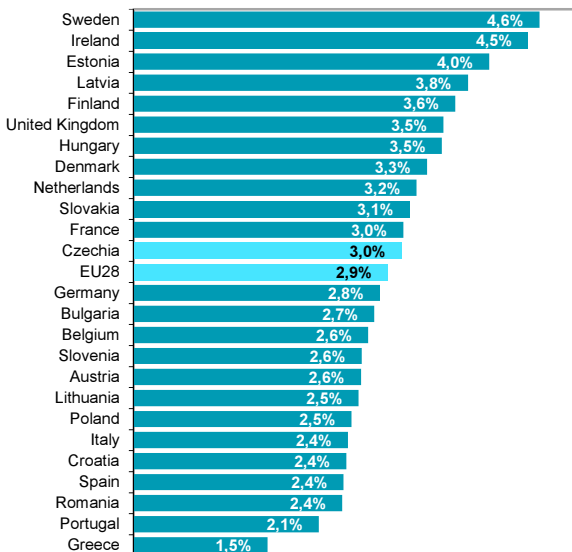
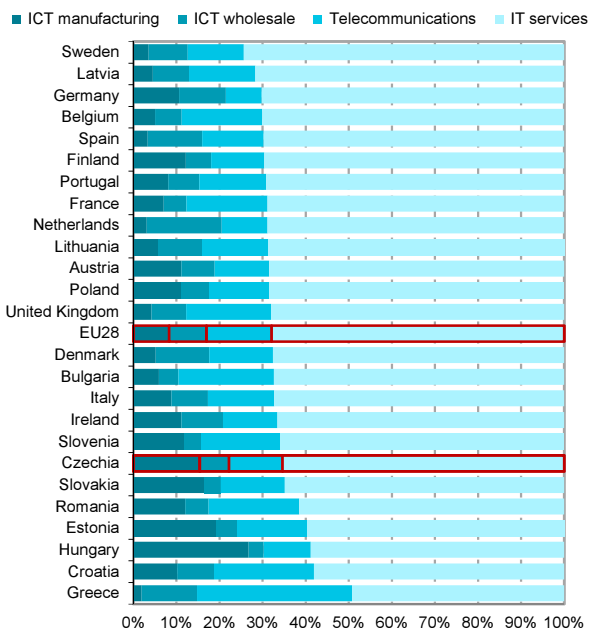


Figure E6 Employment in the ICT sector, by industry; 2017



Source: CZSO calculations based on the Eurostat SBS database

E ICT sector

Figure E7 Employment in ICT manufacturing in Czechia

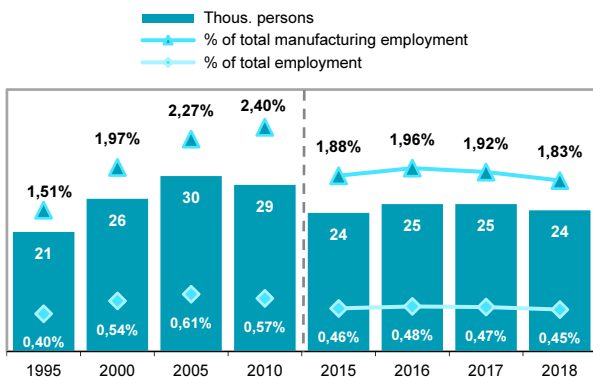


Figure E8 Employment in Telecommunications in Czechia

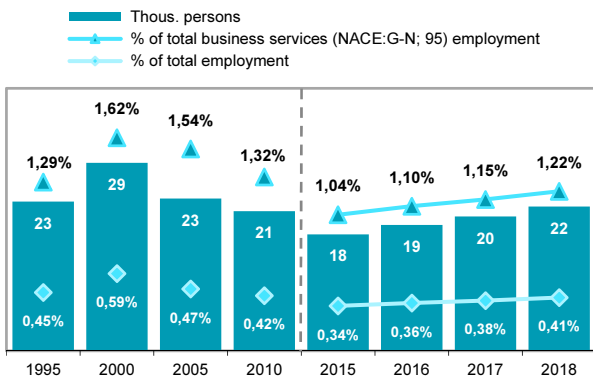
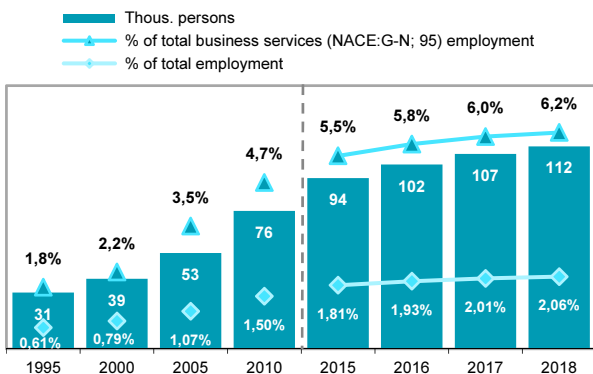


Figure E9 Employment in IT services in Czechia



Source: CZSO, Structural Business Statistics

E ICT sector

Figure E10 Employment in ICT manufacturing; 2017
(% of total manufacturing employment)

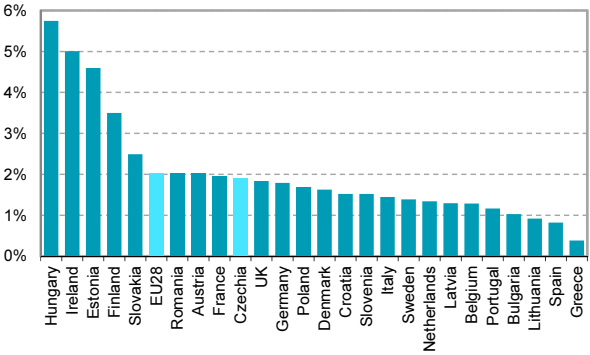


Figure E11 Employment in Telecommunications; 2017
(% of total business enterprise sector employment)

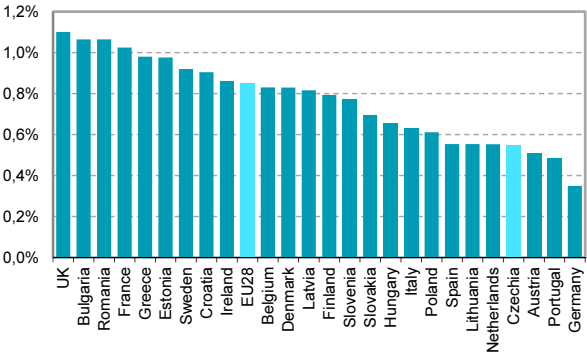
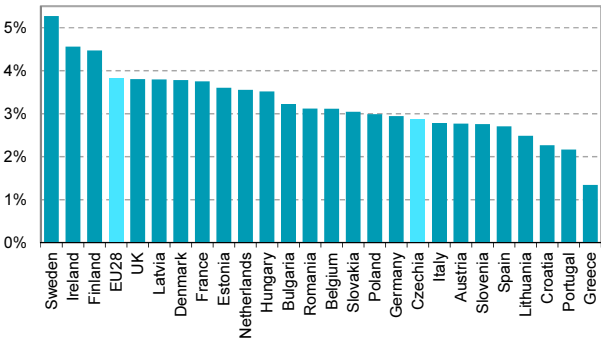


Figure E12 Employment in IT services industries; 2017
(% of total business enterprise sector employment)



E ICT sector

Table E2 Turnover in the ICT sector in Czechia

CZK million

	2016	2017	2018
Total	742 844	789 990	844 720
ICT manufacturing, total	226 336	233 272	262 726
Manuf. of computers & electr. components	173 998	179 372	208 643
Manufacturing of communication equipment and consumer electronics	52 338	53 900	54 082
ICT services, total	516 508	556 718	581 994
ICT wholesale	153 584	167 844	157 895
Telecommunications	121 884	125 872	127 176
IT services	241 040	263 002	296 924

Figure E13 Turnover in the ICT sector

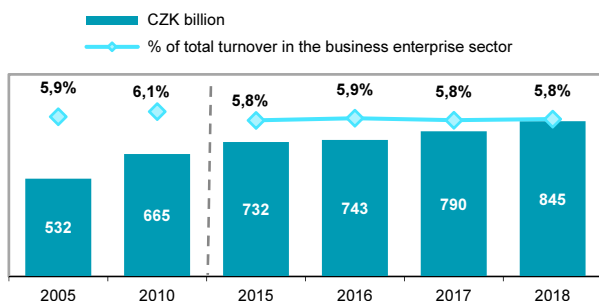


Figure E14 Turnover in the ICT sector, by industry

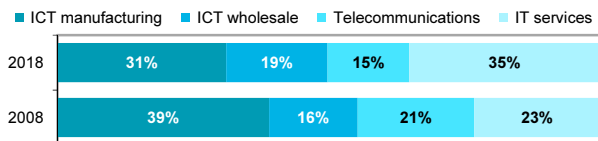


Figure E15 Turnover in the ICT sector, by ownership; 2018

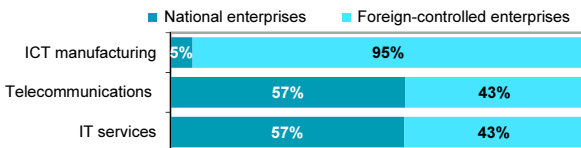
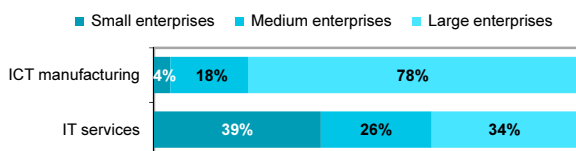


Figure E16 Turnover in the ICT sector, by size; 2018



Source: CZSO, Structural Business Statistics

E ICT sector

Figure E17 Turnover in the ICT sector; 2017
 (% of total turnover in the business enterprise sector)

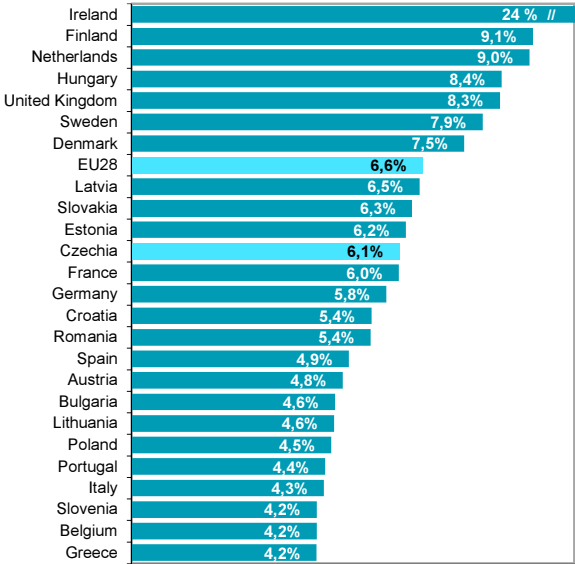
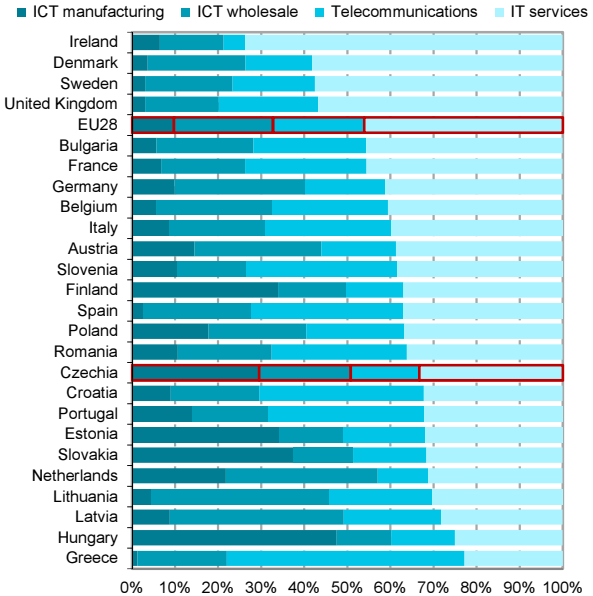


Figure E18 Turnover in the ICT sector by industry; 2017



Source: CZSO calculations based on the Eurostat SBS database

E ICT sector

Figure E19 Turnover in ICT manufacturing in Czechia

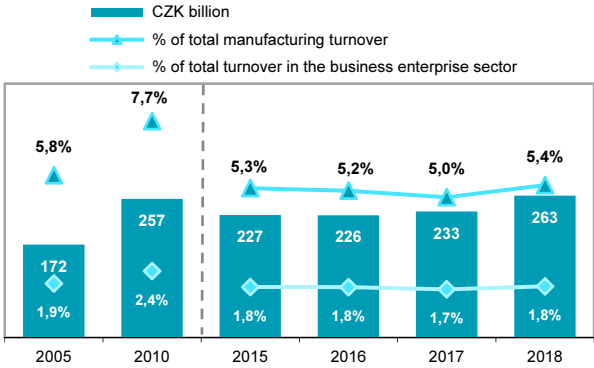


Figure E20 Turnover in Telecommunications in Czechia

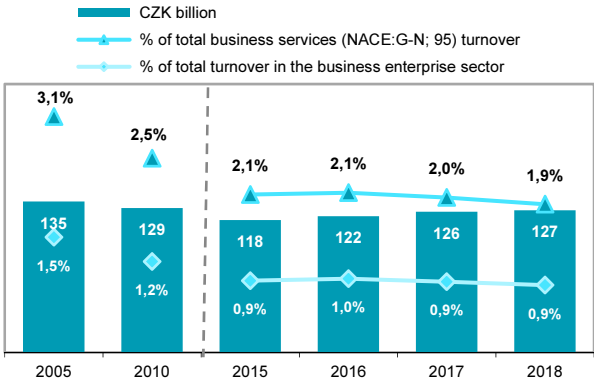
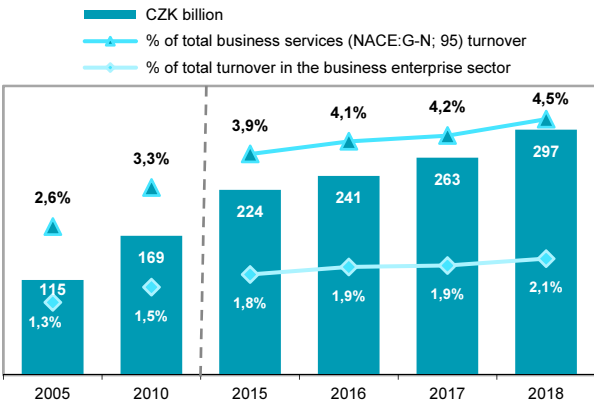


Figure E21 Turnover in IT services in Czechia



Source: CZSO, Structural Business Statistics

E ICT sector

Figure E22 Turnover in ICT manufacturing; 2017
(% of total manufacturing turnover)

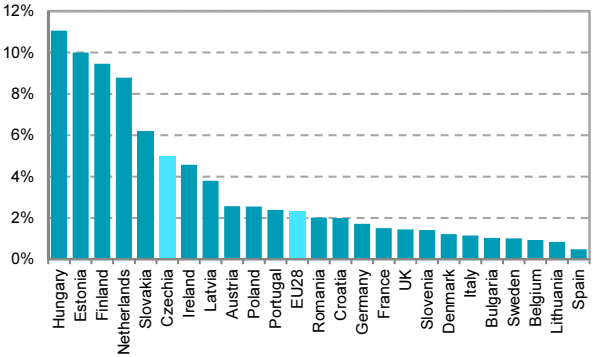


Figure E23 Turnover in Telecommunications; 2017
(% of total turnover in the business enterprise sector)

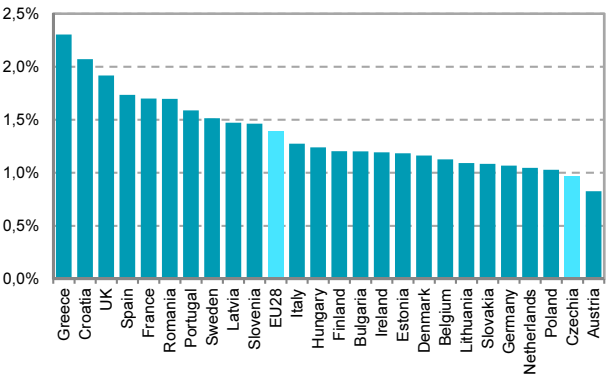
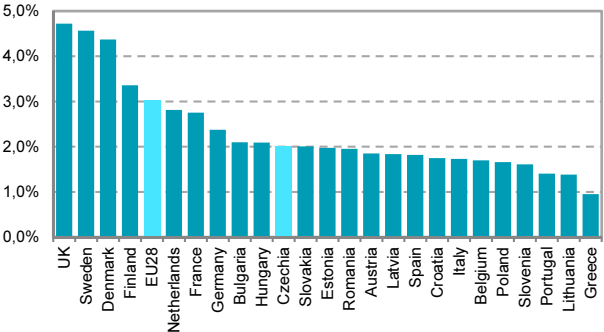


Figure E24 Turnover in IT services; 2017
(% of total turnover in the business enterprise sector)



E ICT sector

Table E3 R&D expenditure in the ICT sector in Czechia

CZK million

	2016	2017	2018
Total	9 421	11 190	13 495
ICT manufacturing, total	532	512	591
Manuf. of computers & electron. components	174	202	255
Manufacturing of communication equipment and consumer electronics	358	310	337
ICT services, total	8 889	10 677	12 903
ICT wholesale	100	87	86
Telecommunications	685	727	801
IT services	8 104	9 863	12 017

Figure E25 R&D expenditure in the ICT sector

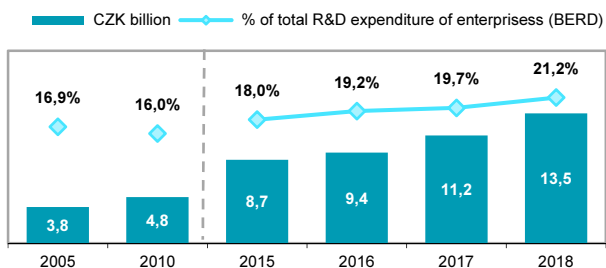


Figure E26 R&D expenditure in the ICT sector, by industry

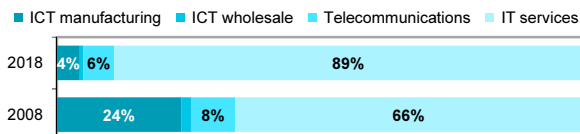


Fig. E27 R&D expenditure in the ICT sector, by ownership; 2018

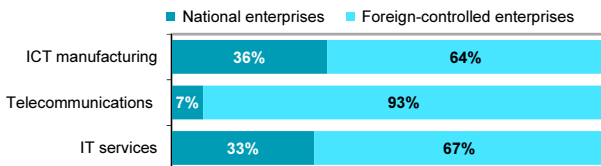
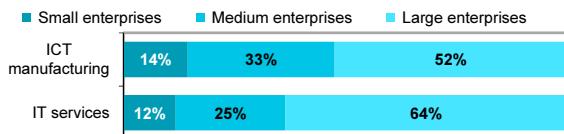


Figure E28 R&D expenditure in the ICT sector, by size; 2018



Source: CZSO, Annual R&D survey

E ICT sector

Figure E29 R&D expenditure in the ICT sector; 2017
(% of total R&D expenditure of enterprises)

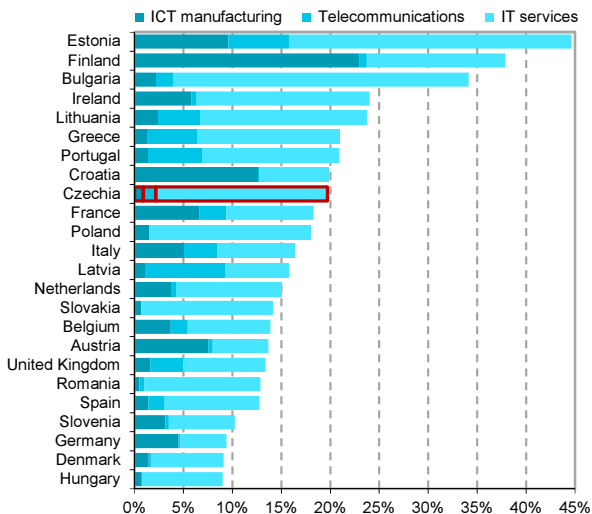
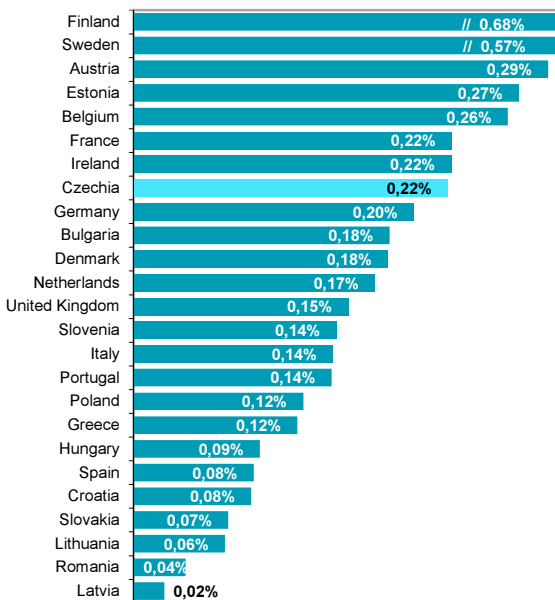


Figure E30 Total R&D expenditure in the ICT sector; 2017
(% of GDP)



Source: CZSO calculations based on the Eurostat STI Database

E ICT sector

Figure E31 R&D expenditure in ICT manufacturing in Czechia

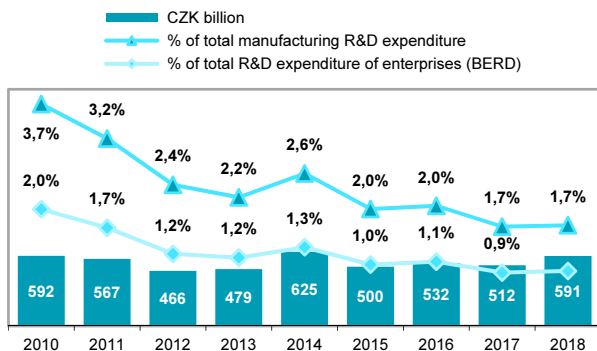


Figure E32 R&D expenditure in Telecommunications in Czechia

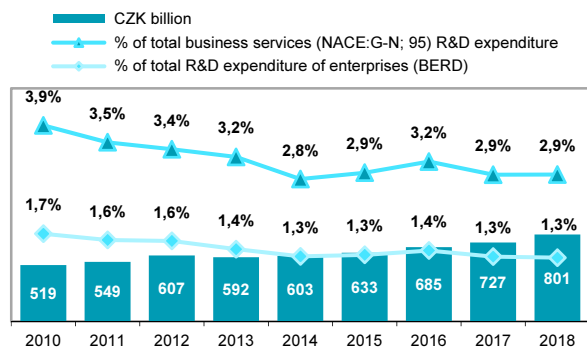
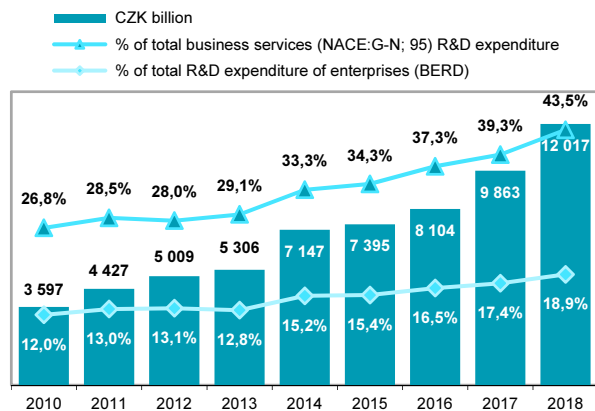


Figure E33 R&D expenditure in IT services in Czechia



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

Source: CZSO, Annual R&D survey

E ICT sector

Figure E34 R&D expenditure in ICT manufacturing; 2017
(% of total manufacturing R&D expenditure)

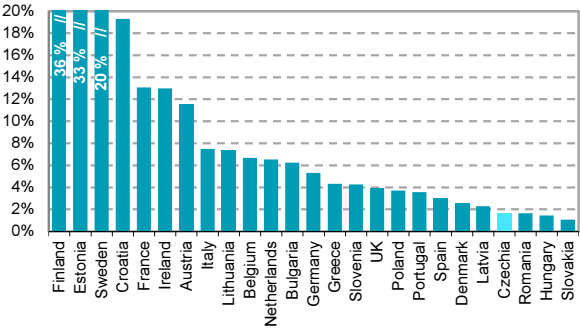


Figure E35 R&D expenditure in Telecommunications; 2017
(% of total R&D expenditure of enterprises)

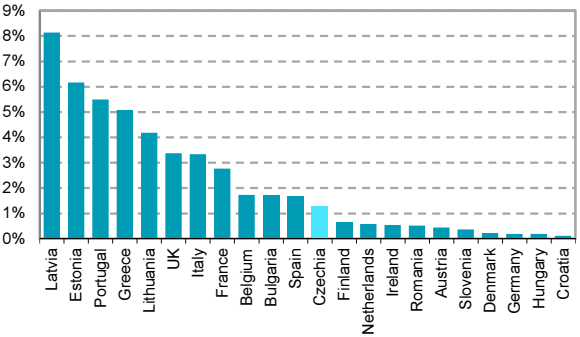


Figure E36 R&D expenditure in IT services; 2017
(% of total R&D expenditure of enterprises)

