

G ICT sector

Information and Communication Technology Sector (hereafter **ICT sector**) is **defined** as a combination of **economic activities** of **manufacturing products** and **providing services** primarily dedicated to processing, communication, and distribution of information **electronically**, including information capture, storage, transmission, and display (OECD, 2006). For more details see: „**OECD Guide to Measuring the Information Society 2011**” at: www.oecd.org/sti/measuring-infoeconomy/guide

ICT sector together with Content and media sector was in 2007 recognized by the **United Nation Statistics Division** as a new alternative grouping of economic activities called **information economy** following 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 includes a combination of **ICT manufacturing** and **ICT services** industries. ICT sector involves all enterprises with the prevailing economic activity according to the divisions, groups and classes of the **Classification of Economic Activities (CZ-NACE)** 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 services:

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)

More detailed information of the **CZ-NACE** can be found at: (*only in Czech*):

https://www.czso.cz/csu/czso/klasifikace_ekonomickyh_cinnosti_cz_nace

Data for this chapter, except for R&D expenditures (source: **R&D annual survey – see chapter D**), 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 2022 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 this data source can be found 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>

G ICT sector

Table G1 Employment in the ICT sector in Czechia

Number of persons employed - headcount persons

	2020	2021	2022
Total	179 562	186 170	195 495
ICT manufacturing, total	23 777	24 669	25 771
Manufacture of electronic components peripheral equipment	8 256	8 427	9 114
Manuf. of communication equipment	6 486	6 883	7 216
Manufacture of consumer electronics	5 463	5 487	5 635
ICT services, total	155 785	161 501	169 724
ICT wholesale	11 716	11 654	12 051
Telecommunications	22 190	21 769	21 689
IT services	121 879	128 078	135 984

Figure G1 Employment in the ICT sector

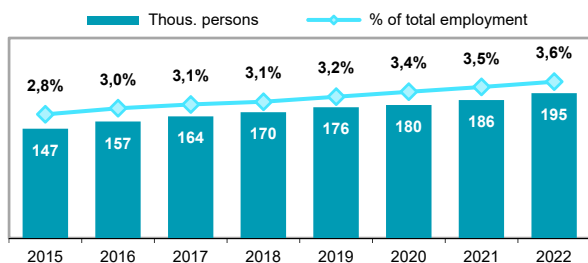


Figure G2 Employment in the ICT sector, by industry

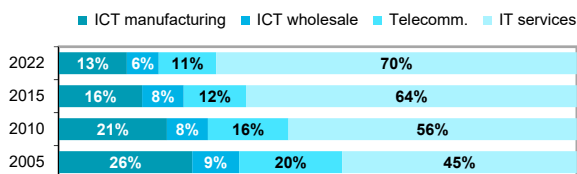


Figure G3 Employment in the ICT sector, by ownership; 2022

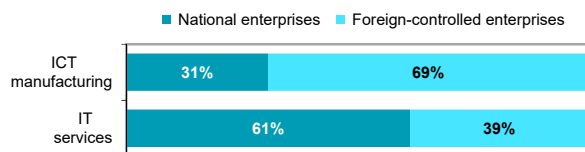
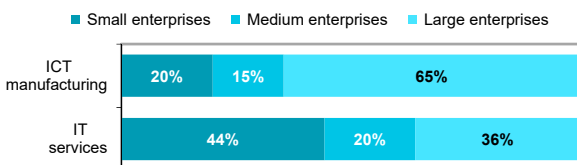


Figure G4 Employment in the ICT sector, by size; 2022



Source: CZSO, Structural Business Statistics

G ICT sector

Figure G5 Employment in the ICT sector; 2021
(% of total employment)

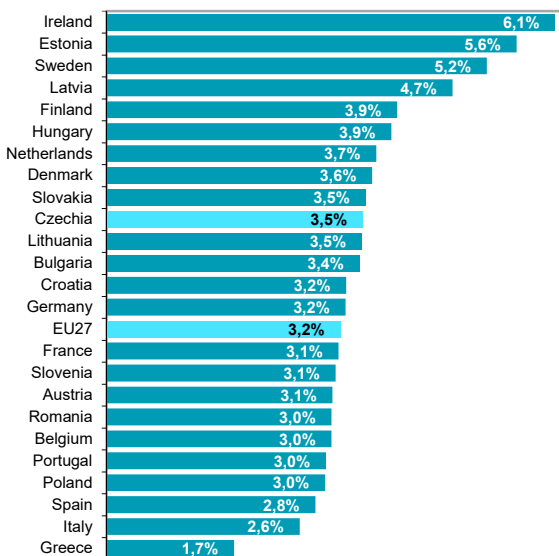
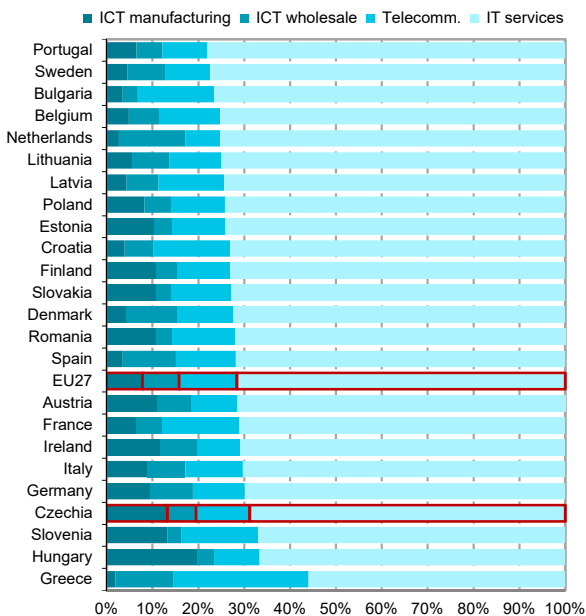


Figure G6 Employment in the ICT sector, by industry; 2021



Source: CZSO calculations based on the Eurostat SBS database

G ICT sector

Figure G7 Employment in ICT manufacturing in Czechia

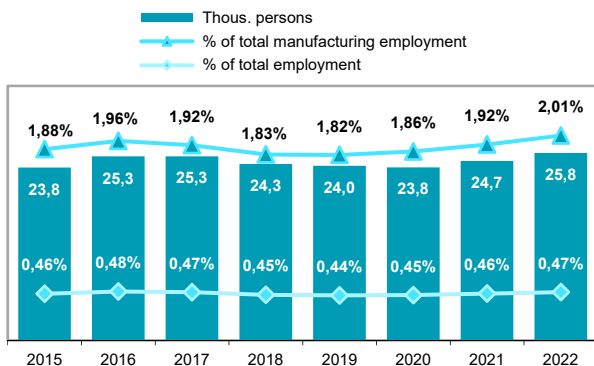


Figure G8 Employment in Telecommunications in Czechia

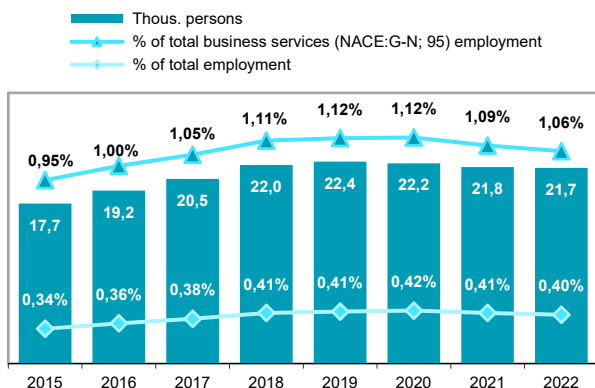
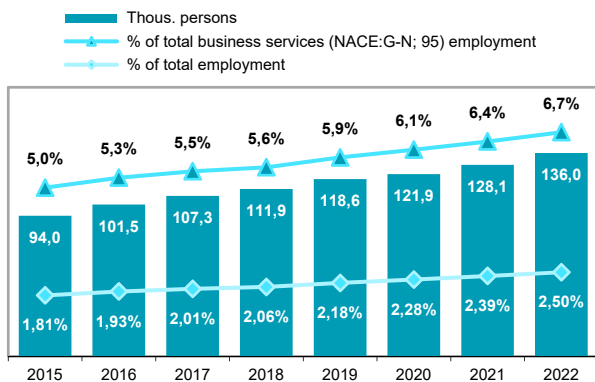


Figure G9 Employment in IT services in Czechia



Source: CZSO, Structural Business Statistics

G ICT sector

Figure G10 Employment in ICT manufacturing; 2021
(% of total manufacturing employment)

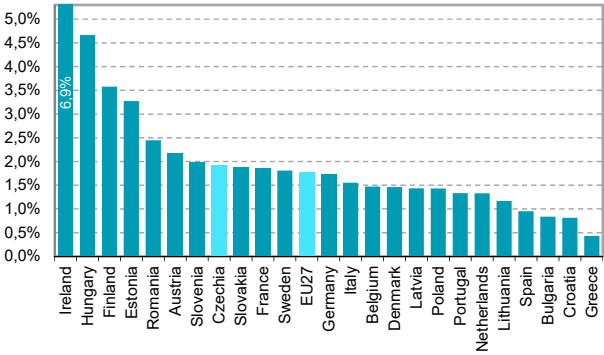


Figure G11 Employment in Telecommunications; 2021
(% of total business enterprise sector employment)

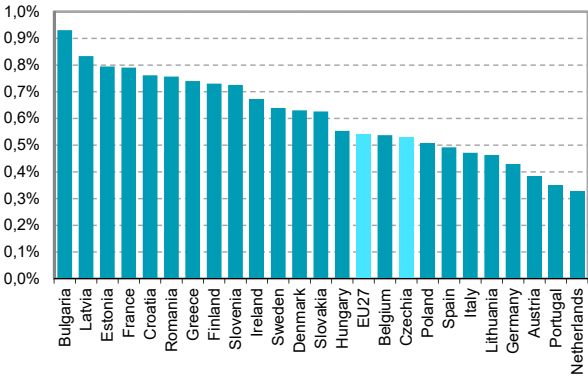
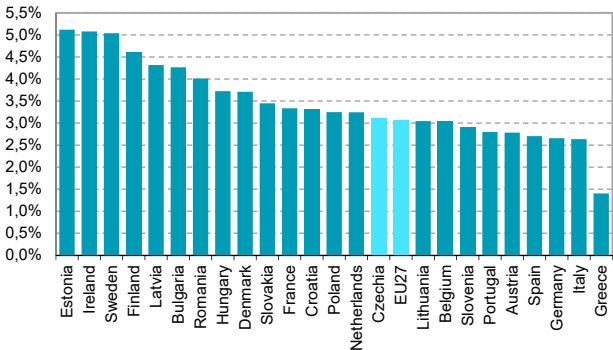


Figure G12 Employment in IT services; 2021
(% of total business enterprise sector employment)



G ICT sector

Table G2 Turnover in the ICT sector in Czechia

	CZK million		
	2020	2021	2022
Total	926 669	950 226	1 033 182
ICT manufacturing, total	249 315	231 363	240 672
Manufacture of electronic components	18 387	20 590	26 734
Manufacture of computers and peripheral	179 926	158 124	166 913
Manuf. of communication equipment	17 453	18 818	19 145
Manufacture of consumer electronics	33 549	33 831	27 880
ICT services, total	677 354	718 863	792 510
ICT wholesale	183 642	184 817	204 169
Telecommunications	134 726	140 288	143 838
IT services	358 986	393 759	444 503

Figure G13 Turnover in the ICT sector

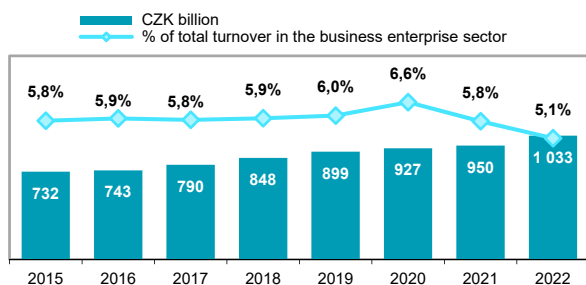


Figure G14 Turnover in the ICT sector, by industry

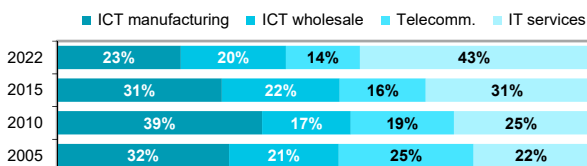


Figure G15 Turnover in the ICT sector, by ownership; 2022

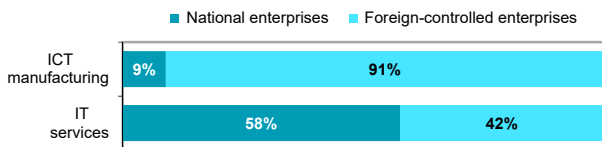
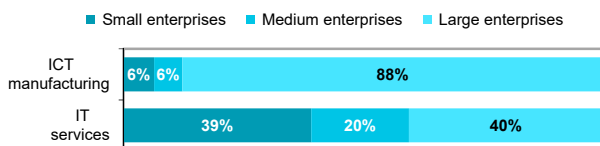


Figure G16 Turnover in the ICT sector, by size; 2022



Source: CZSO, Structural Business Statistics

Figure E17 Turnover in the ICT sector; 2021
(% of total turnover in the business enterprise sector)

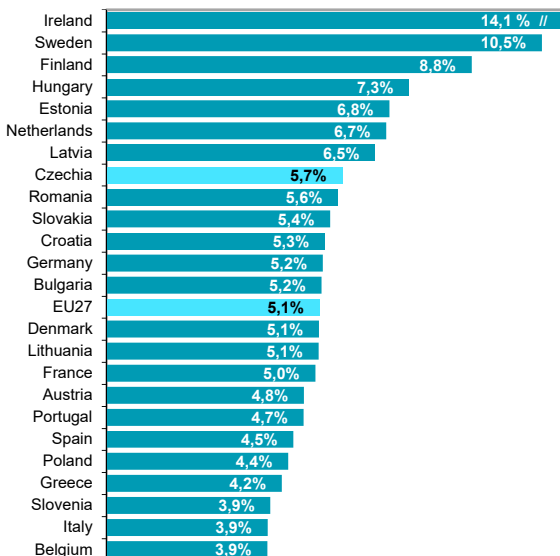
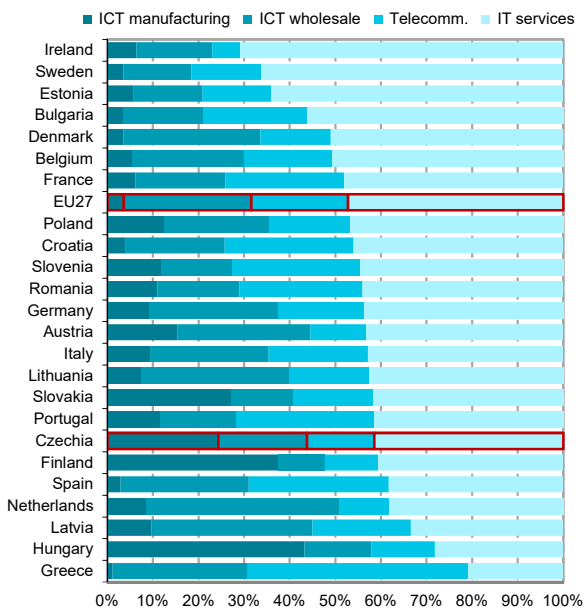


Figure E18 Turnover in the ICT sector, by industry; 2021 (%)



Source: CZSO calculations based on the Eurostat SBS database

G ICT sector

Figure G19 Turnover in ICT manufacturing in Czechia

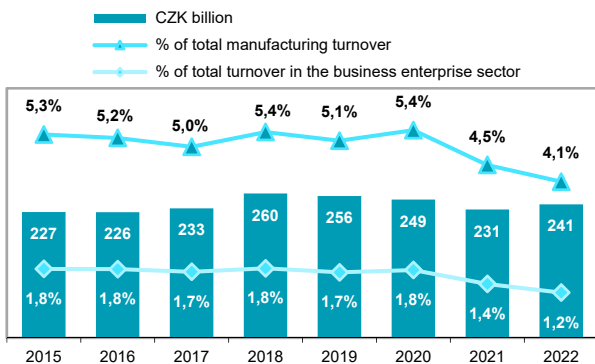


Figure G20 Turnover in Telecommunications in Czechia

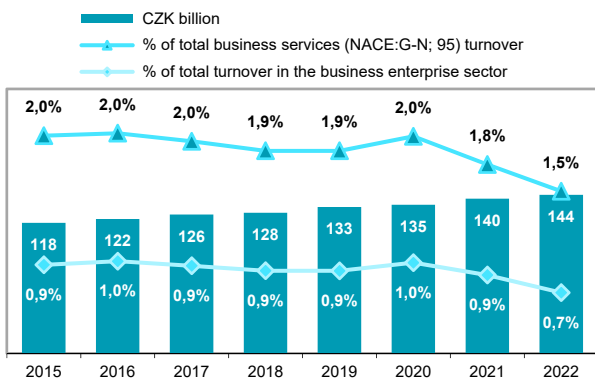
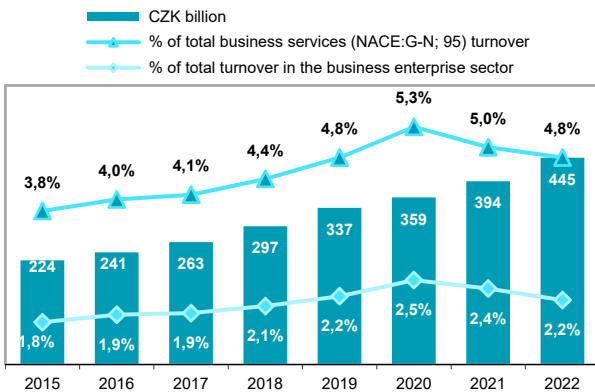


Figure G21 Turnover in IT services in Czechia



Source: CZSO, Structural Business Statistics

G ICT sector

Figure G22 Turnover in ICT manufacturing; 2021
(% of total manufacturing turnover)

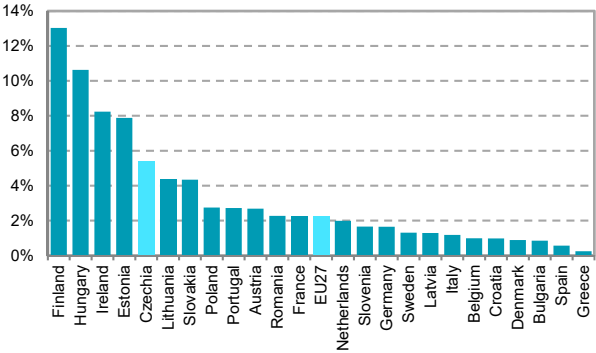


Figure G23 Turnover in Telecommunications; 2021
(% of total turnover in the business enterprise sector)

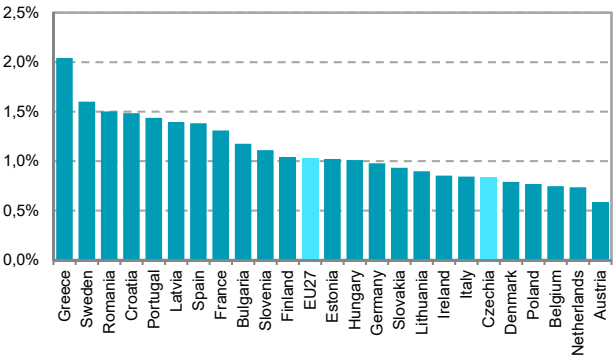
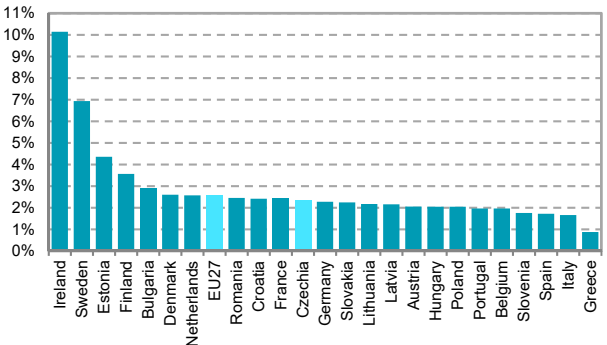


Figure G24 Turnover in IT services; 2021
(% of total turnover in the business enterprise sector)



G ICT sector

Table G3 R&D expenditure in the ICT sector in Czechia

CZK million

	2019	2020	2021
Total	16 739	20 190	23 035
ICT manufacturing, total	999	727	1 054
Manufacture of electronic components	593	304	498
Manufacture of computers and peripheral	27	33	37
Manuf. of communication equipment	342	349	466
Manufacture of consumer electronics	37	42	53
ICT services, total	15 740	19 463	21 982
ICT wholesale	225	207	196
Telecommunications	983	780	836
IT services	14 533	18 475	20 950

Figure G25 R&D expenditure in the ICT sector

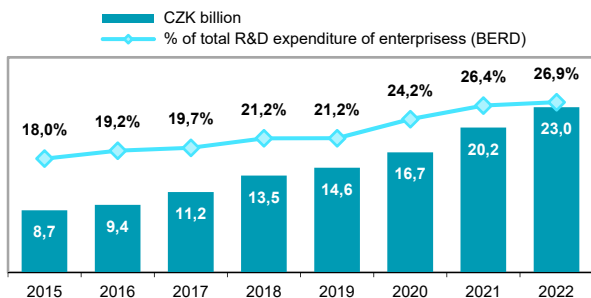


Figure G26 R&D expenditure in the ICT sector, by industry

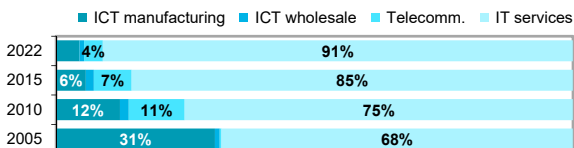


Fig.G27 R&D expenditure in the ICT sector, by ownership; 2021

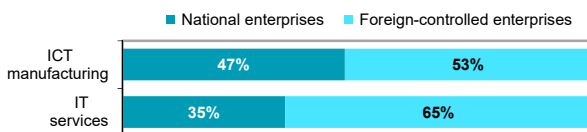
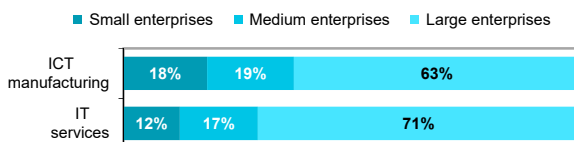


Figure G28 R&D expenditure in the ICT sector, by size; 2021



Source: CZSO, Annual R&D survey

G ICT sector

Figure G29 R&D expenditure in the ICT sector; 2021
(% of total R&D expenditure of enterprises)

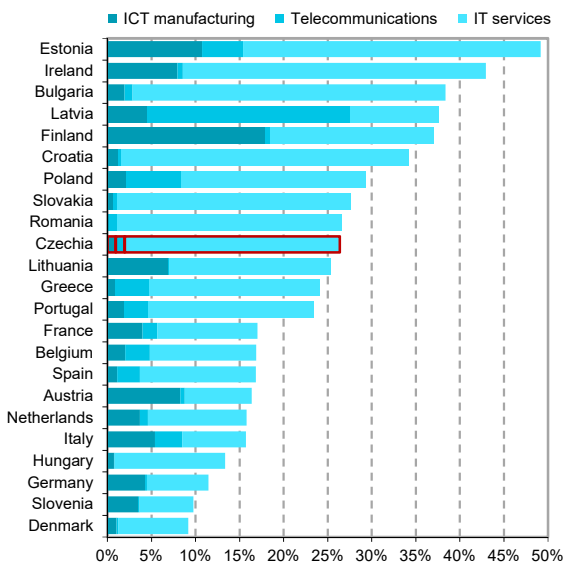
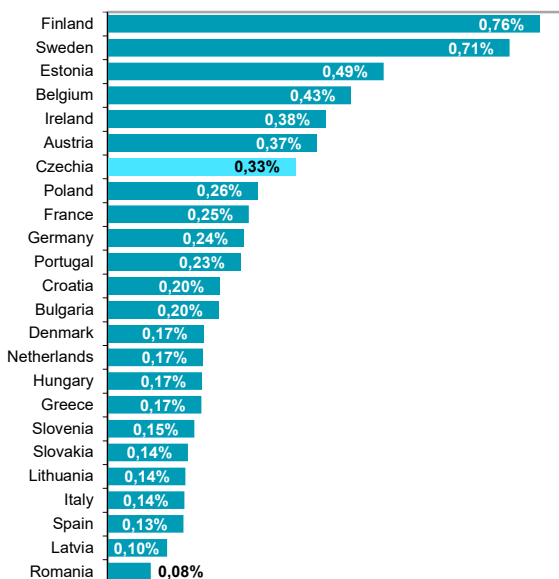


Figure G30 R&D expenditure in the ICT sector; 2021
(% of GDP)



Source: CZSO calculations based on the Eurostat STI Database

G ICT sector

Figure G31 R&D expenditure in ICT manufacturing in Czechia

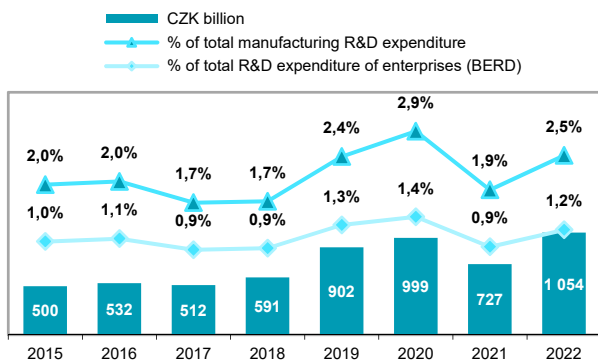


Figure G32 R&D expenditure in Telecommunications in Czechia

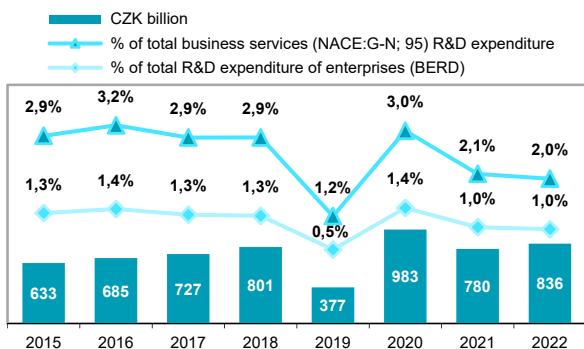
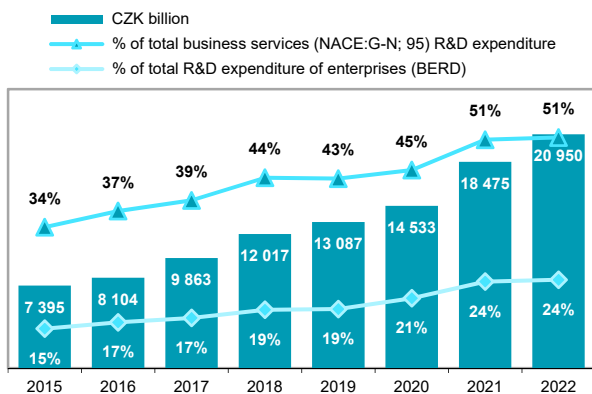


Figure G33 R&D expenditure in IT services in Czechia



R&D - Research and development

Source: CZSO, Annual R&D survey

G ICT sector

Figure G34 R&D expenditure in ICT manufacturing; 2021
(% of total manufacturing R&D expenditure)

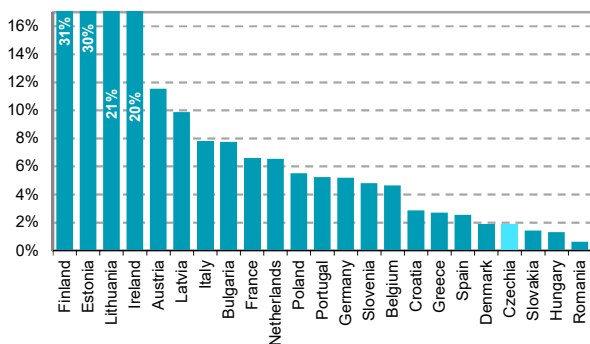


Figure G35 R&D expenditure in Telecommunications; 2021
(% of total R&D expenditure of enterprises)

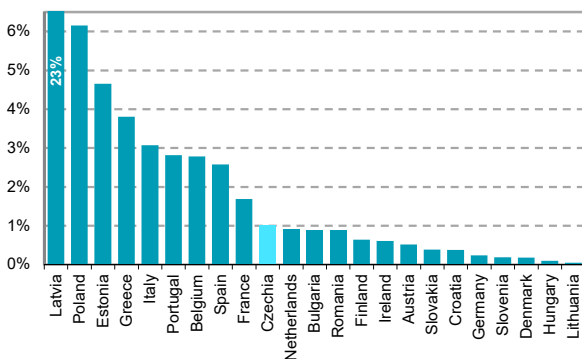
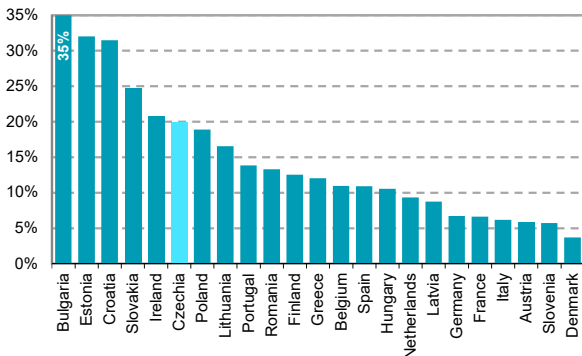


Figure G36 R&D expenditure in IT services; 2021
(% of total R&D expenditure of enterprises)



Source: CZSO calculations based on the Eurostat STI Database