

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 2021 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>

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Table G1 Employment in the ICT sector in Czechia

Number of persons employed - headcount persons

	2019	2020	2021
Total	176 484	178 818	186 201
ICT manufacturing, total	24 001	23 754	24 677
Manufacture of electronic components peripheral equipment	8 687	8 249	8 506
Manuf. of communication equipment	5 829	6 484	6 884
Manufacture of consumer electronics	5 862	5 451	5 518
Manufacture of consumer electronics	3 623	3 570	3 768
ICT services, total	152 484	155 064	161 524
ICT wholesale	11 536	11 591	12 003
Telecommunications	22 374	22 080	21 993
IT services	118 573	121 393	127 528

Figure G1 Employment in the ICT sector

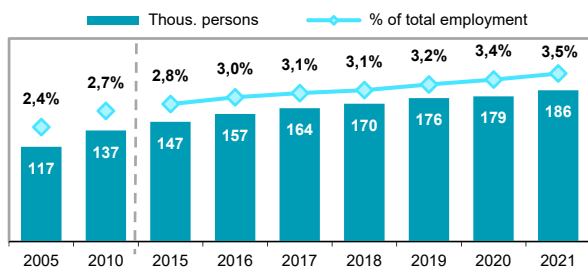


Figure G2 Employment in the ICT sector, by industry

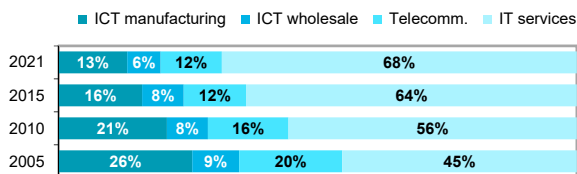


Figure G3 Employment in the ICT sector, by ownership; 2021

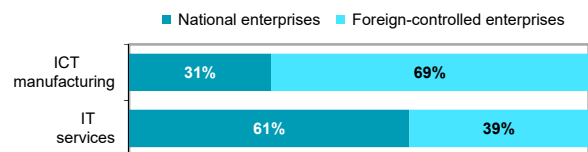
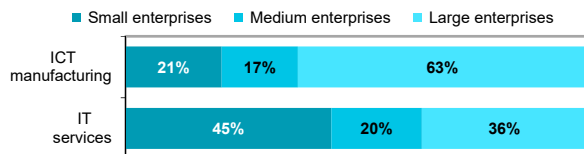


Figure G4 Employment in the ICT sector, by size; 2021



Source: CZSO, Structural Business Statistics

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Figure G5 Employment in the ICT sector; 2020
(% of total employment)

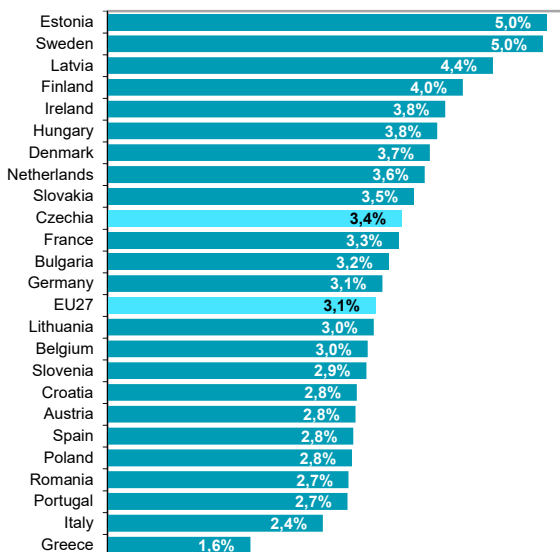
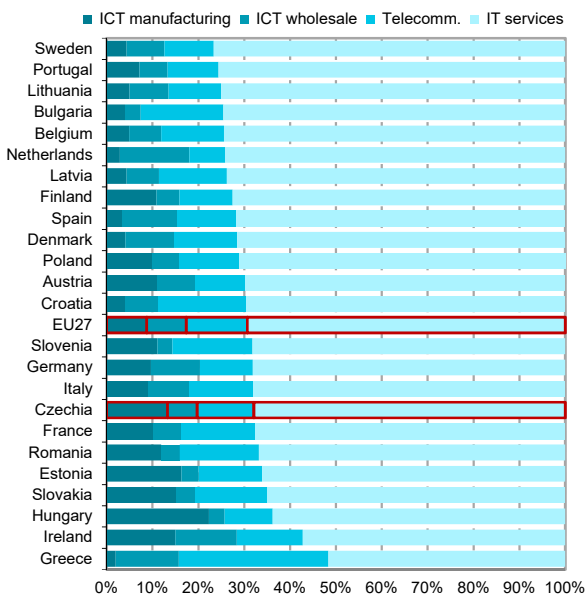


Figure G6 Employment in the ICT sector, by industry; 2020



Source: CZSO calculations based on the Eurostat SBS database

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Figure G7 Employment in ICT manufacturing in Czechia

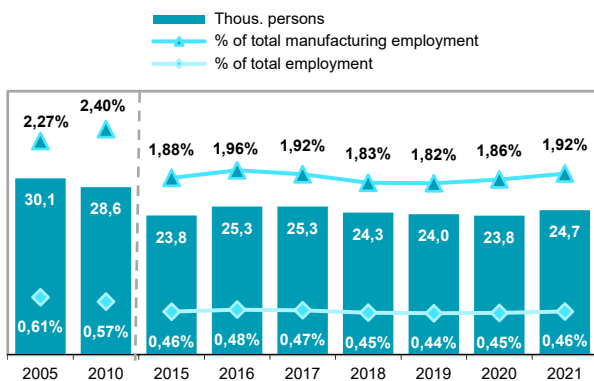


Figure G8 Employment in Telecommunications in Czechia

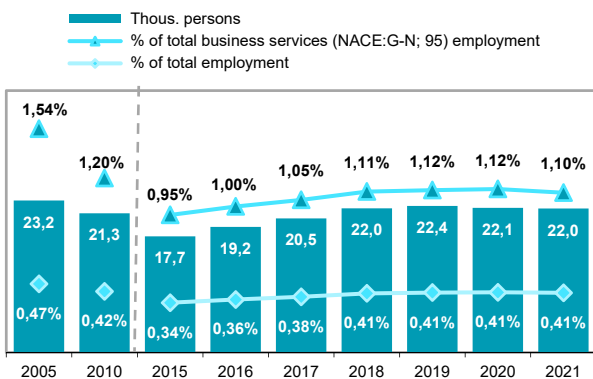
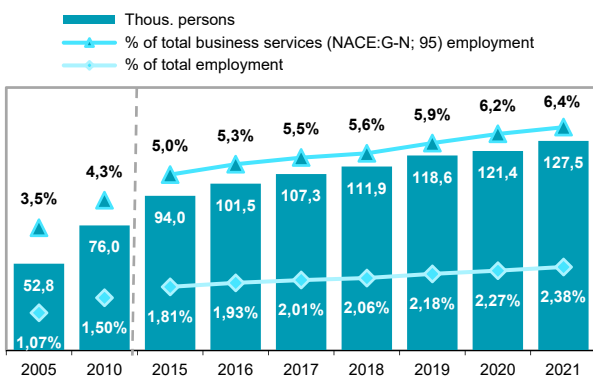


Figure G9 Employment in IT services in Czechia



Source: CZSO, Structural Business Statistics

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Figure G10 Employment in ICT manufacturing; 2020
(% of total manufacturing employment)

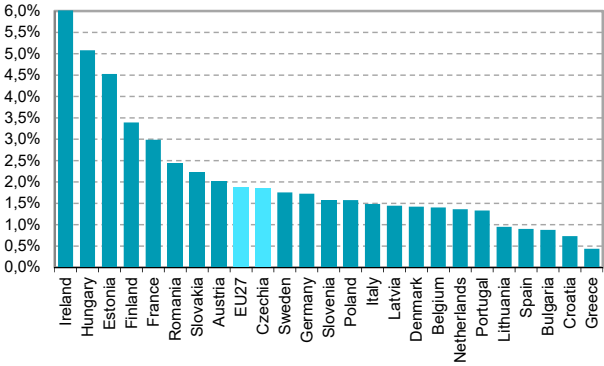


Figure G11 Employment in Telecommunications; 2020
(% of total business enterprise sector employment)

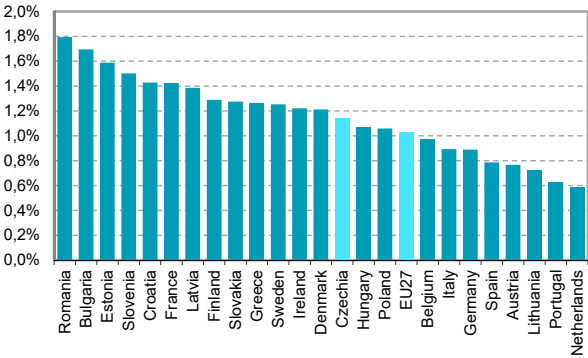
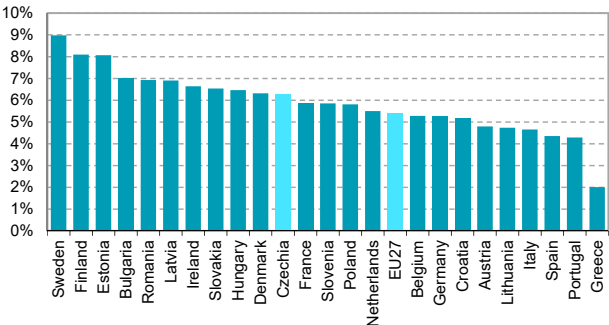


Figure G12 Employment in IT services; 2020
(% of total business enterprise sector employment)



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Table G2 Turnover in the ICT sector in Czechia

CZK million

	2019	2020	2021
Total	899 422	926 501	948 217
ICT manufacturing, total	255 587	249 802	229 065
Manufacture of electronic components peripheral equipment	18 181	18 387	20 773
Manuf. of communication equipment	185 728	180 409	157 715
Manufacture of consumer electronics	18 321	17 457	18 904
ICT services, total	643 835	676 700	719 152
ICT wholesale	33 357	33 549	31 672
Telecommunications	174 289	183 014	184 679
IT services	132 752	134 726	140 786
IT services	336 794	358 960	393 687

Figure G13 Turnover in the ICT sector

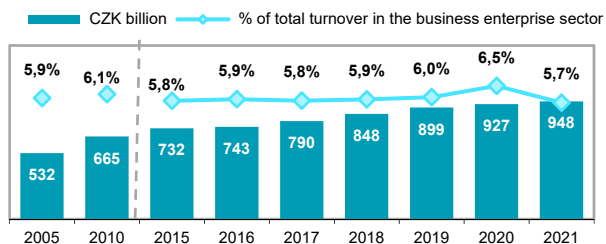


Figure G14 Turnover in the ICT sector, by industry

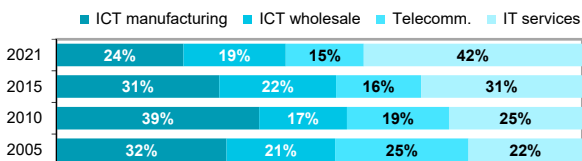


Figure G15 Turnover in the ICT sector, by ownership; 2021

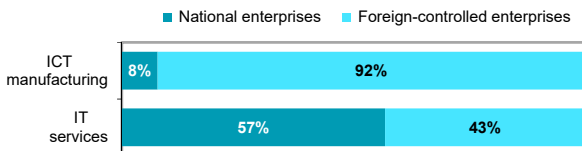
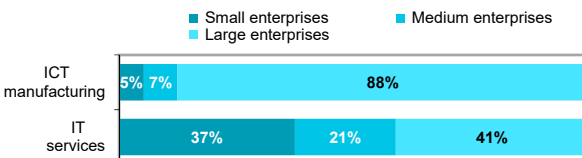


Figure G16 Turnover in the ICT sector, by size; 2021



Source: CZSO, Structural Business Statistics

Figure E17 Turnover in the ICT sector; 2020
(% of total turnover in the business enterprise sector)

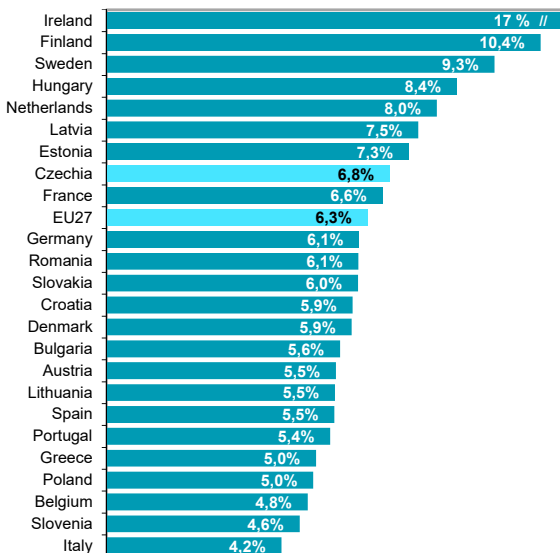
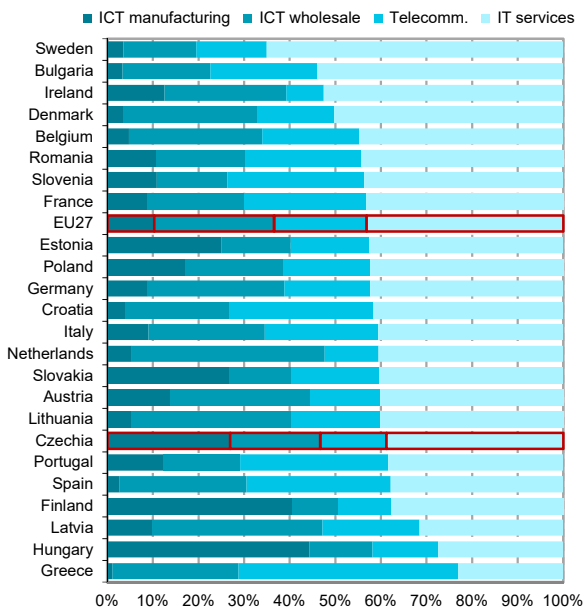


Figure E18 Turnover in the ICT sector, by industry; 2020 (%)



Source: CZSO calculations based on the Eurostat SBS database

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Figure G19 Turnover in ICT manufacturing in Czechia

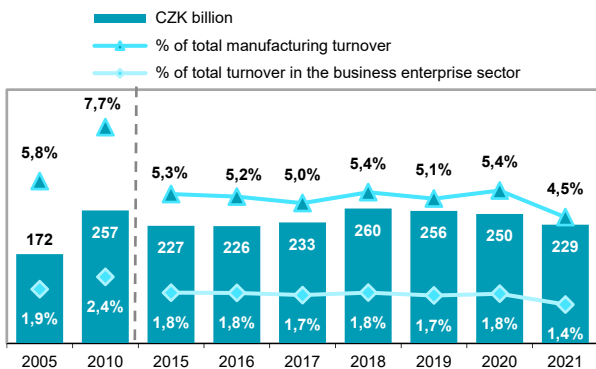


Figure G20 Turnover in Telecommunications in Czechia

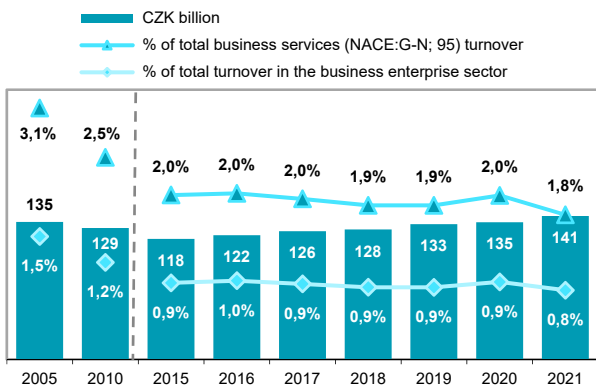
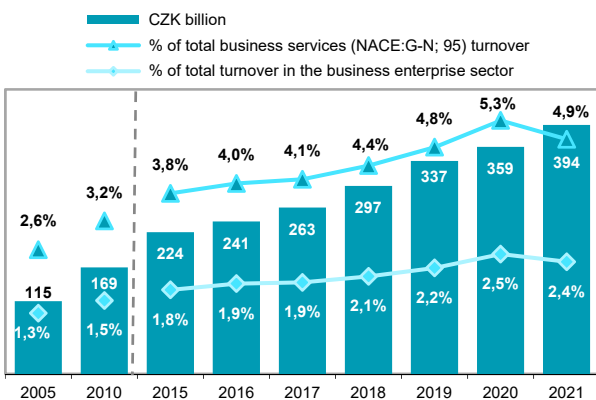


Figure G21 Turnover in IT services in Czechia



Source: CZSO, Structural Business Statistics

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Figure G22 Turnover in ICT manufacturing; 2020
(% of total manufacturing turnover)

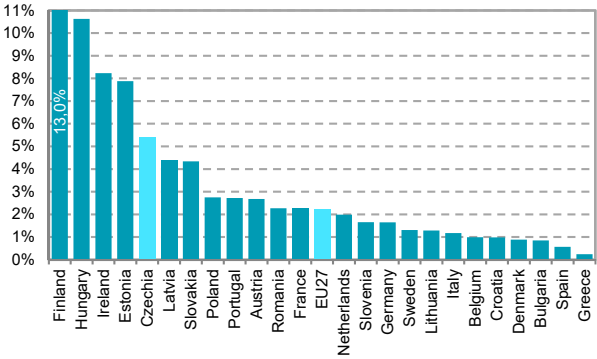


Figure G23 Turnover in Telecommunications; 2020
(% of total turnover in the business enterprise sector)

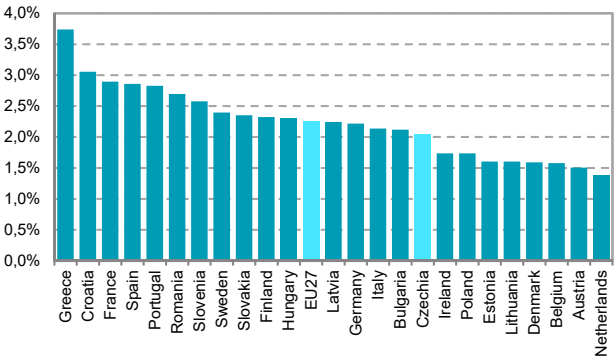
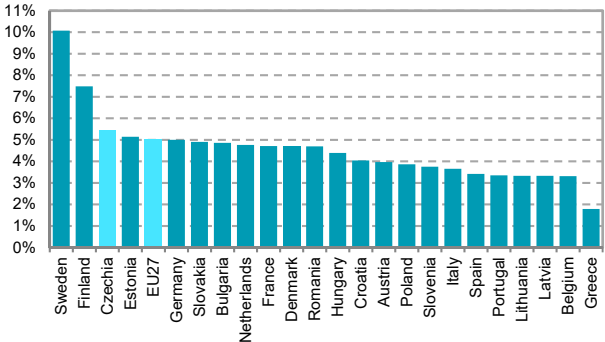


Figure G24 Turnover in IT services; 2020
(% of total turnover in the business enterprise sector)



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

	CZK million		
	2019	2020	2021
Total	14 600	16 739	20 190
ICT manufacturing, total	902	999	727
Manufacture of electronic components peripheral equipment	497	593	304
Manuf. of communication equipment	14	27	33
Manufacture of consumer electronics	337	342	349
Manufacture of consumer electronics	52	35	39
ICT services, total	13 698	15 740	19 463
ICT wholesale	234	225	207
Telecommunications	377	983	780
IT services	13 087	14 533	18 475

Figure G25 R&D expenditure in the ICT sector

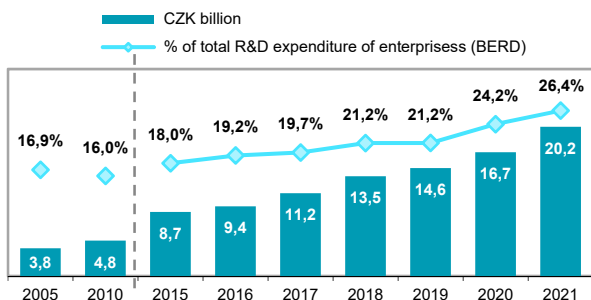


Figure G26 R&D expenditure in the ICT sector, by industry

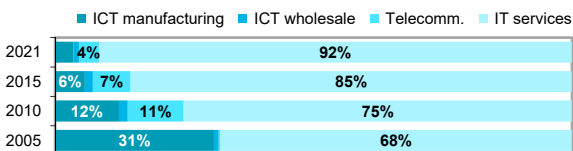


Fig.G27 R&D expenditure in the ICT sector, by ownership; 2021

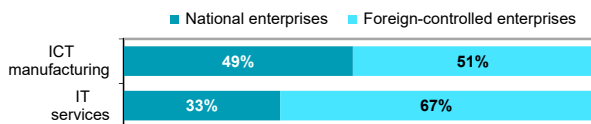
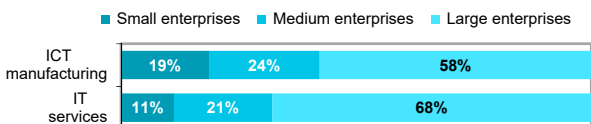


Figure G28 R&D expenditure in the ICT sector, by size; 2021



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Figure G29 R&D expenditure in the ICT sector; 2020
(% of total R&D expenditure of enterprises)

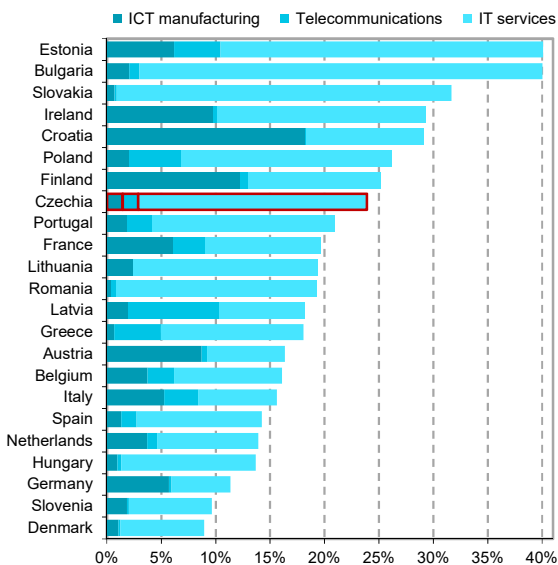
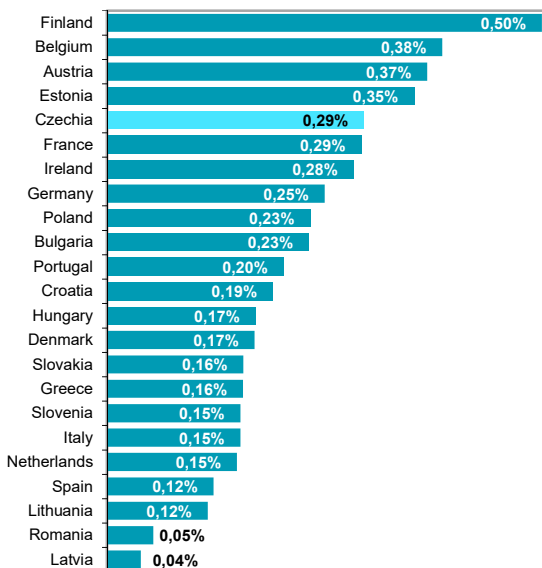


Figure G30 R&D expenditure in the ICT sector; 2020
(% of GDP)



Source: CZSO calculations based on the Eurostat STI Database

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Figure G31 R&D expenditure in ICT manufacturing in Czechia

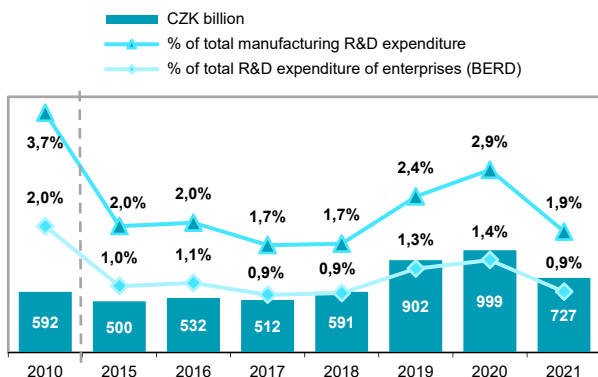


Figure G32 R&D expenditure in Telecommunications in Czechia

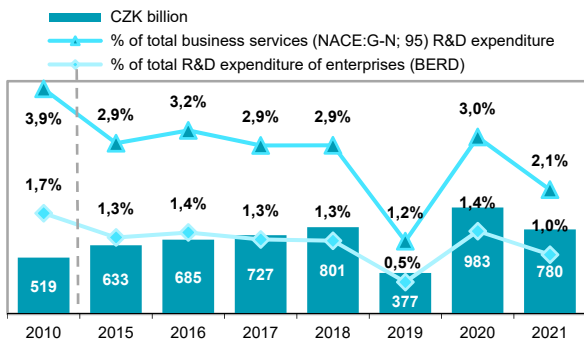
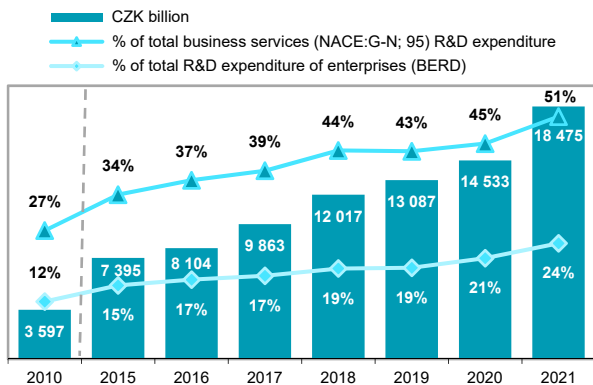


Figure G33 R&D expenditure in IT services in Czechia



R&D - Research and development

Source: CZSO, Annual R&D survey

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Figure G34 R&D expenditure in ICT manufacturing; 2020
(% of total manufacturing R&D expenditure)

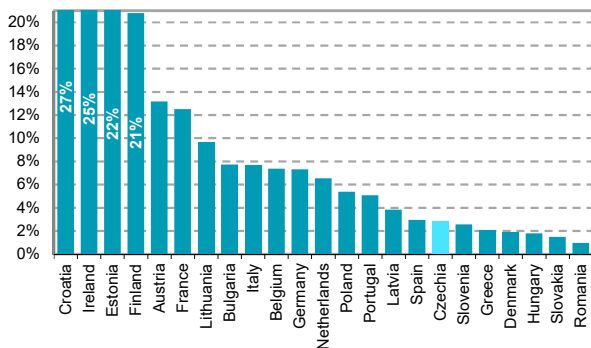


Figure G35 R&D expenditure in Telecommunications; 2020
(% of total R&D expenditure of enterprises)

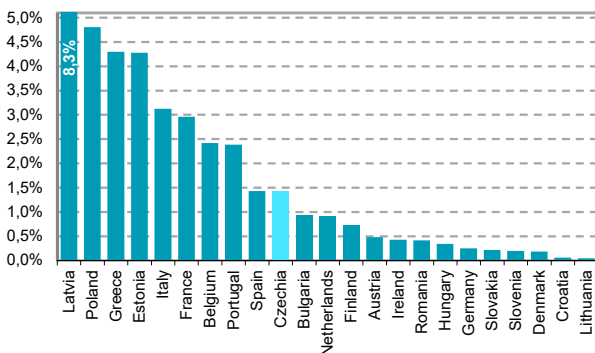
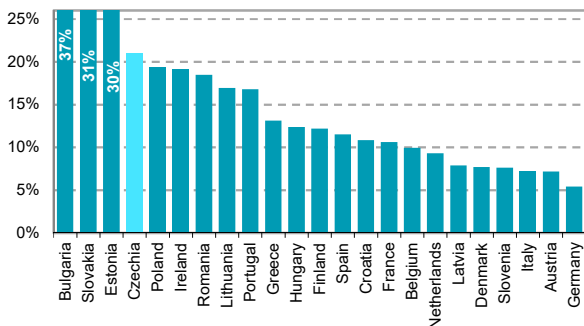


Figure G36 R&D expenditure in IT services; 2020
(% of total R&D expenditure of enterprises)



Source: CZSO calculations based on the Eurostat STI Database