

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/rocnka/rocnka.indexnu_en

All 2019 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

	2017	2018	2019
Total	164 209	169 722	175 919
ICT manufacturing, total	25 298	24 253	24 054
Manufacture of electronic components	8 065	8 410	8 691
Manufacture of computers and peripheral equipment	6 742	5 873	5 874
Manuf. of communication equipment	6 527	6 129	5 903
Manufacture of consumer electronics	3 965	3 842	3 587
ICT services, total	138 911	145 469	151 865
ICT wholesale	11 127	11 601	11 505
Telecommunications	20 459	22 009	22 383
IT services	107 325	111 859	117 977

Figure G1 Employment in the ICT sector

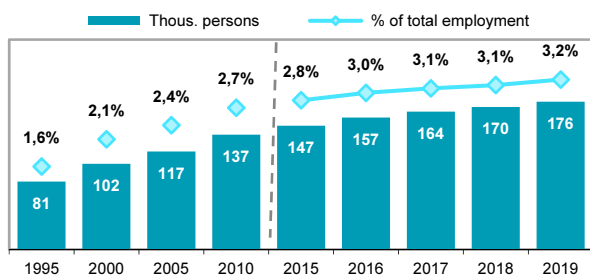


Figure G2 Employment in the ICT sector, by industry

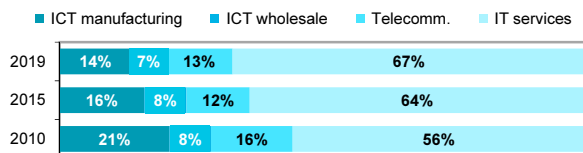


Figure G3 Employment in the ICT sector, by ownership; 2019

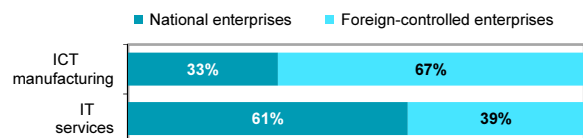
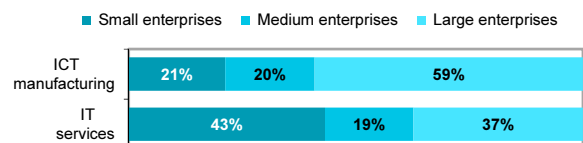


Figure G4 Employment in the ICT sector, by size; 2019



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Figure G5 Employment in the ICT sector; 2018
(% of total employment)

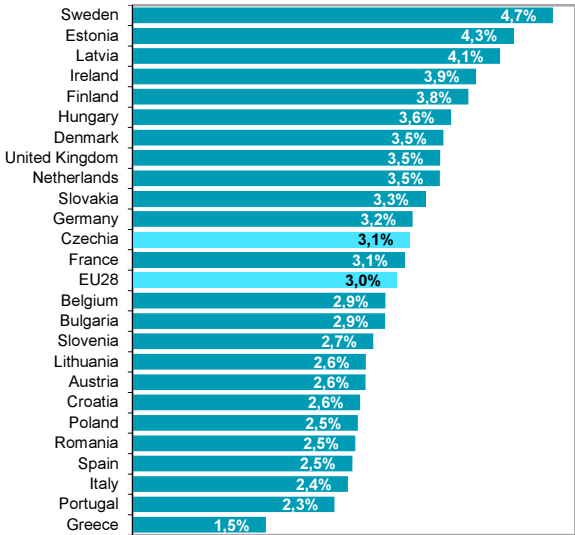
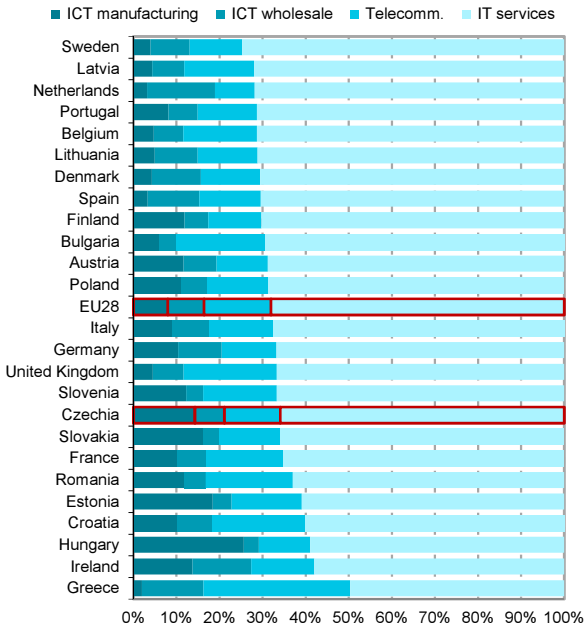


Figure G6 Employment in the ICT sector, by industry; 2018



Source: CZSO calculations based on the Eurostat SBS database

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Figure G7 Employment in ICT manufacturing in Czechia

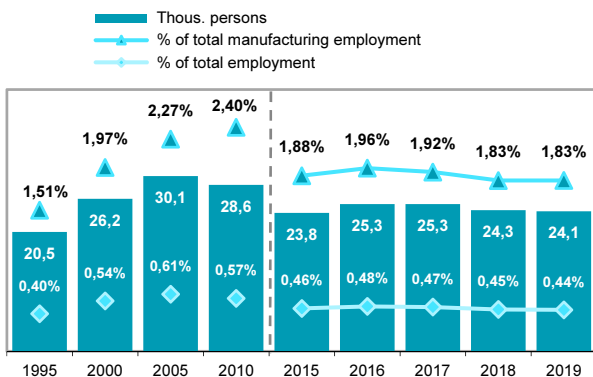


Figure G8 Employment in Telecommunications in Czechia

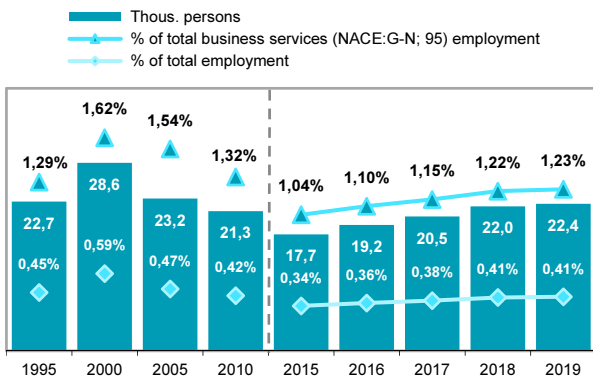
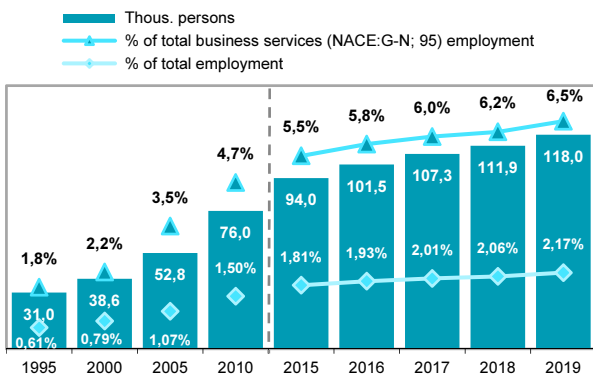


Figure G9 Employment in IT services in Czechia



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Figure G10 Employment in ICT manufacturing; 2018
(% of total manufacturing employment)

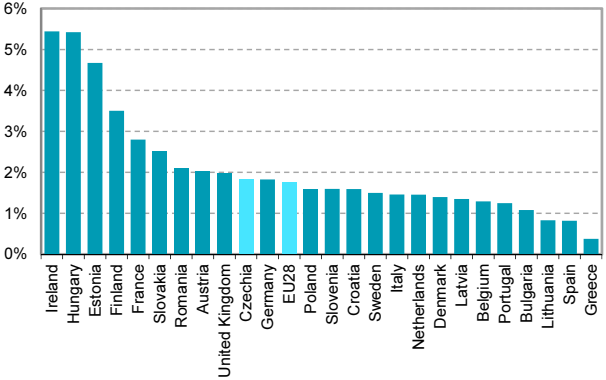


Figure G11 Employment in Telecommunications; 2018
(% of total business enterprise sector employment)

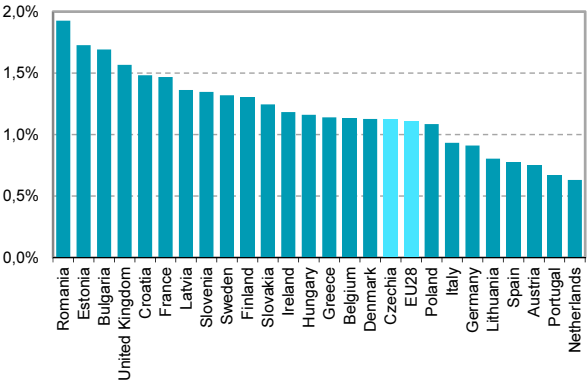
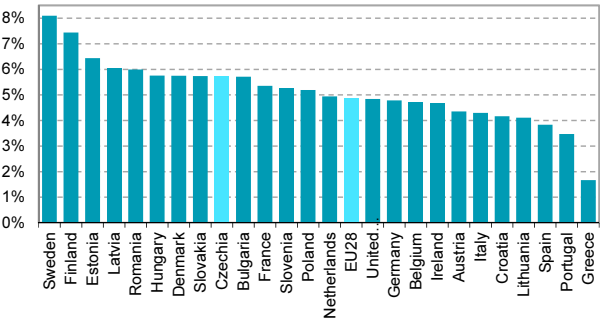


Figure G12 Employment in IT services; 2018
(% of total business enterprise sector employment)



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Table G2 Turnover in the ICT sector in Czechia

CZK million

	2017	2018	2019
Total	789 990	847 611	903 369
ICT manufacturing, total	233 272	260 301	256 181
Manufacture of electronic components	15 626	16 002	19 785
Manufacture of computers and peripheral equipment	163 746	191 655	184 951
Manuf. of communication equipment	17 272	17 416	18 294
Manufacture of consumer electronics	36 628	35 229	33 151
ICT services, total	556 718	587 310	647 188
ICT wholesale	167 844	162 408	169 702
Telecommunications	125 872	127 568	133 968
IT services	263 002	297 334	343 519

Figure G13 Turnover in the ICT sector

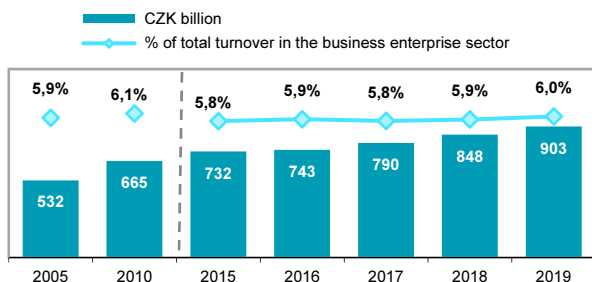


Figure G14 Turnover in the ICT sector, by industry

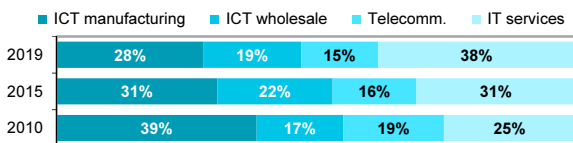


Figure G15 Turnover in the ICT sector, by ownership; 2019

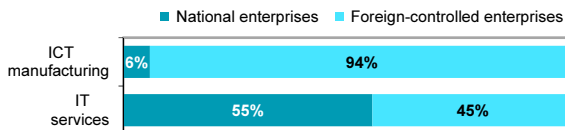
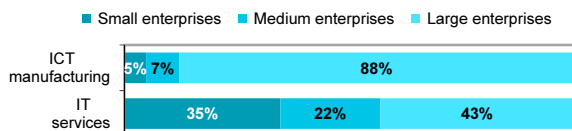


Figure G16 Turnover in the ICT sector, by size; 2019



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Figure E17 Turnover in the ICT sector; 2018
(% of total turnover in the business enterprise sector)

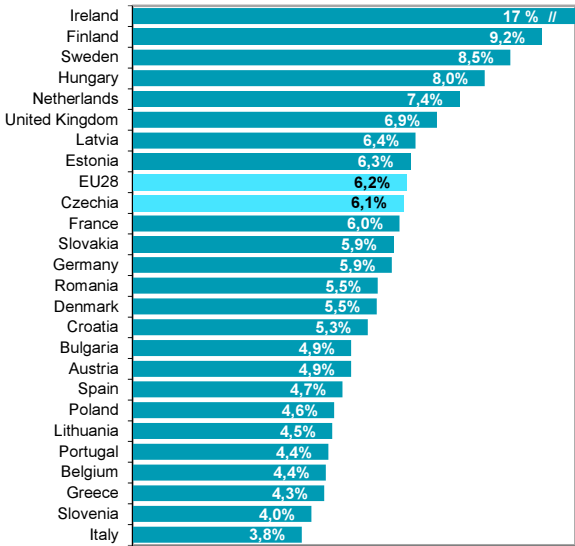
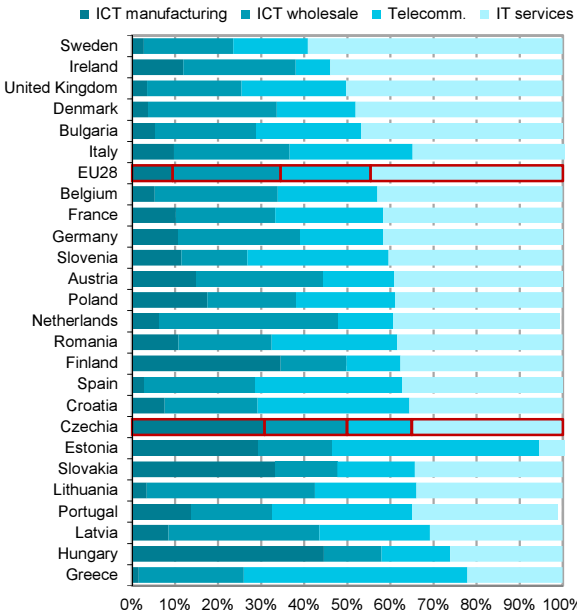


Figure E18 Turnover in the ICT sector, by industry; 2018 (%)



Source: CZSO calculations based on the Eurostat SBS database

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Figure G19 Turnover in ICT manufacturing in Czechia

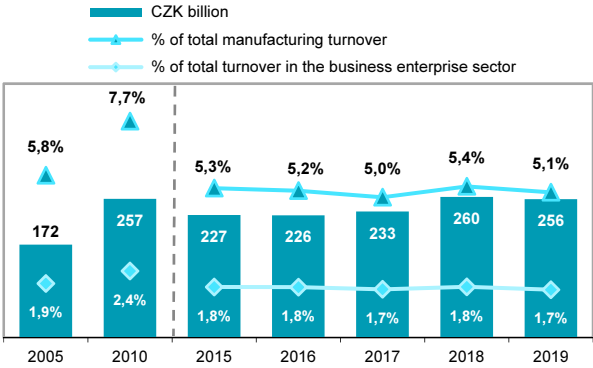


Figure G20 Turnover in Telecommunications in Czechia

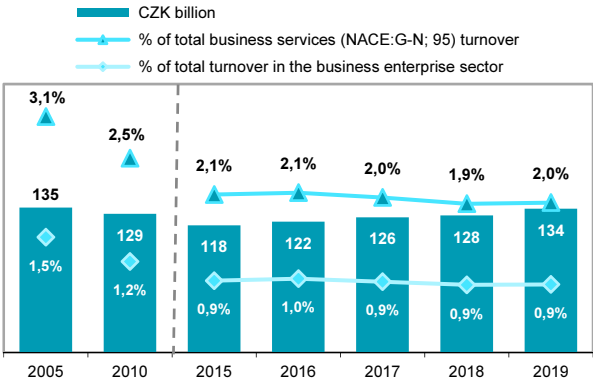
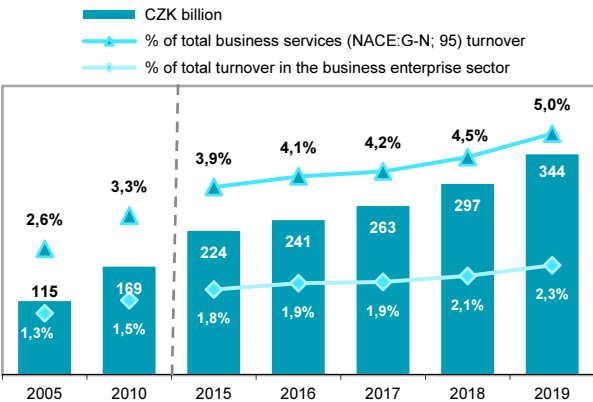


Figure G21 Turnover in IT services in Czechia



Source: CZSO, Structural Business Statistics

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Figure G22 Turnover in ICT manufacturing; 2018
(% of total manufacturing turnover)

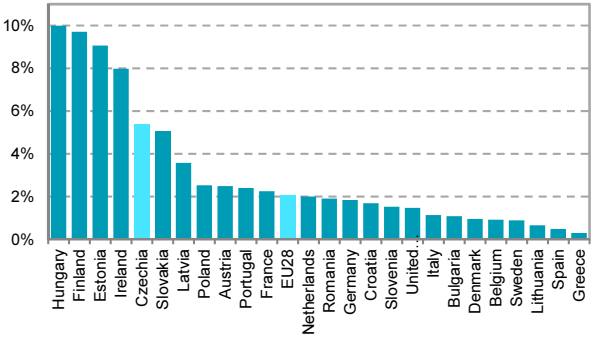


Figure G23 Turnover in Telecommunications; 2018
(% of total turnover in the business enterprise sector)

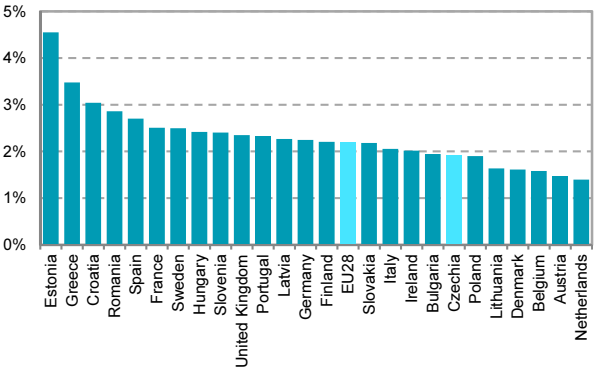
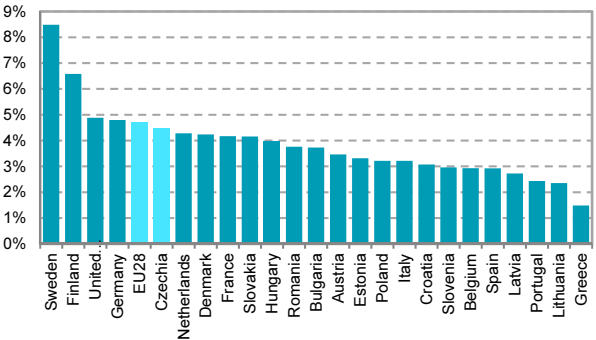


Figure G24 Turnover in IT services; 2018
(% of total turnover in the business enterprise sector)



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

CZK million

	2017	2018	2019
Total	11 190	13 495	14 600
ICT manufacturing, total	512	591	902
Manufacture of electronic components	185	241	497
Manufacture of computers and peripheral equipment	17	14	14
Manuf. of communication equipment	287	299	337
Manufacture of consumer electronics	23	38	53
ICT services, total	10 201	12 473	13 343
ICT wholesale	87	86	234
Telecommunications	727	801	377
IT services	9 863	12 017	13 087

Figure G25 R&D expenditure in the ICT sector

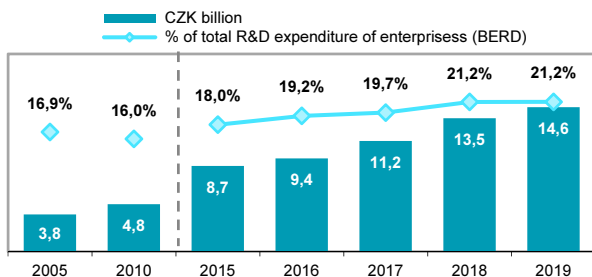


Figure G26 R&D expenditure in the ICT sector, by industry

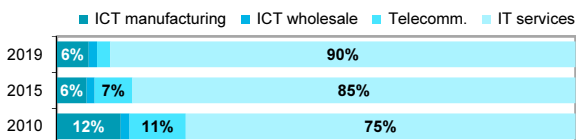


Fig.G27 R&D expenditure in the ICT sector, by ownership; 2019

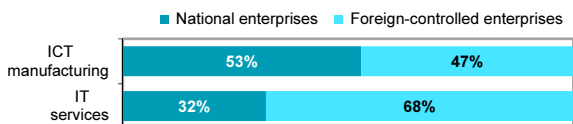
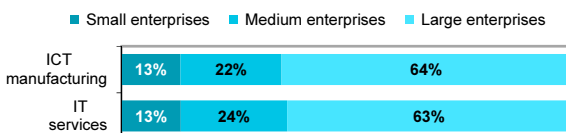


Figure G28 R&D expenditure in the ICT sector, by size; 2019



Source: CZSO, Annual R&D survey

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Figure G29 R&D expenditure in the ICT sector; 2018
(% of total R&D expenditure of enterprises)

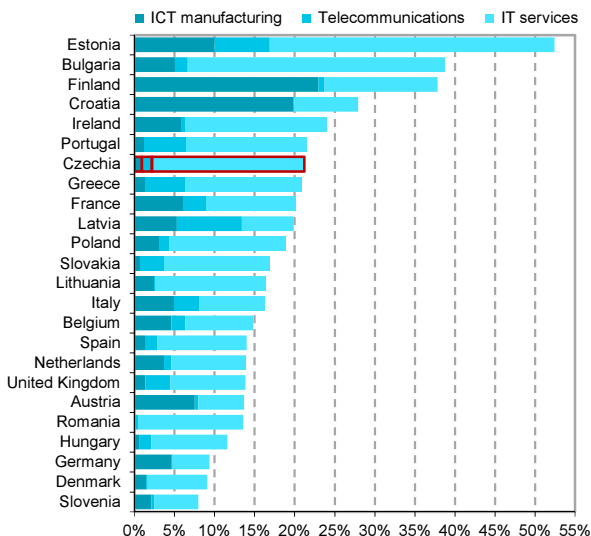
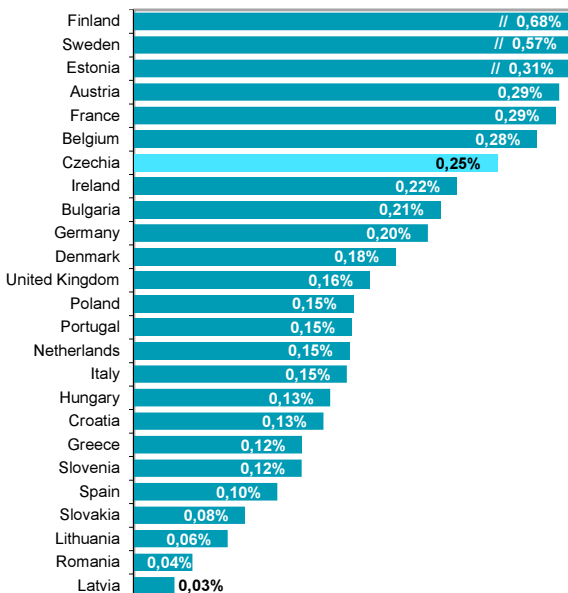


Figure G30 R&D expenditure in the ICT sector; 2018
(% of GDP)



Source: CZSO calculations based on the Eurostat STI Database

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Figure G31 R&D expenditure in ICT manufacturing in Czechia

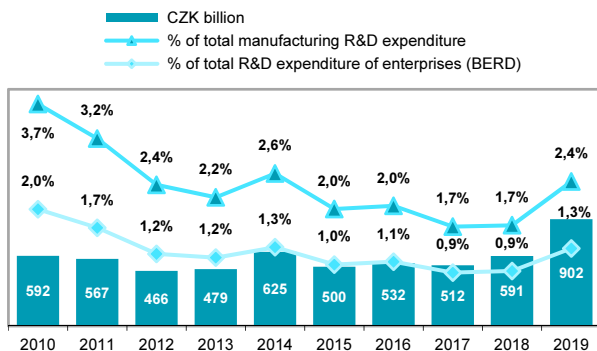


Figure G32 R&D expenditure in Telecommunications in Czechia

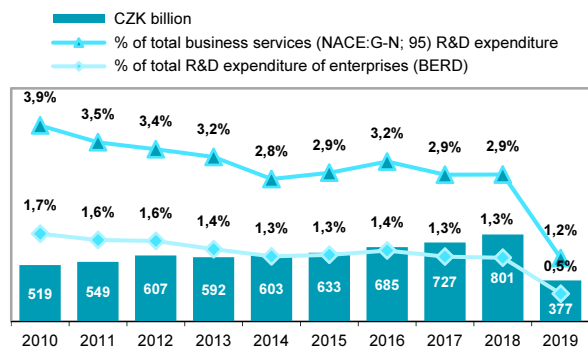
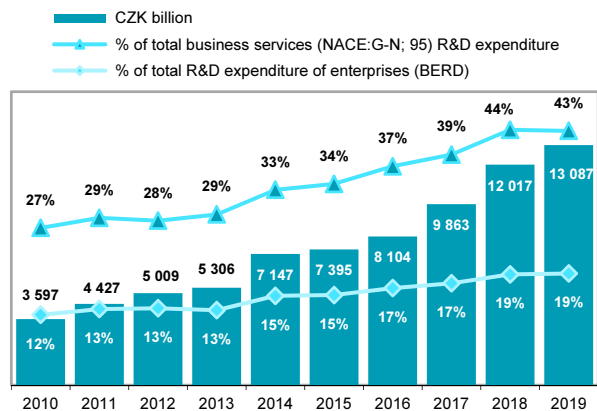


Figure G33 R&D expenditure in IT services in Czechia



R&D - Research and development

Source: CZSO, Annual R&D survey

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Figure G34 R&D expenditure in ICT manufacturing; 2018
(% of total manufacturing R&D expenditure)

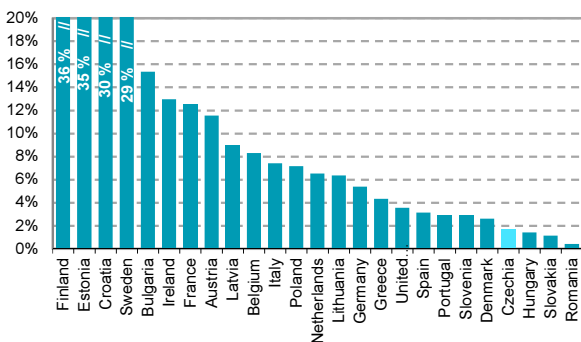


Figure G35 R&D expenditure in Telecommun.; 2018
(% of total R&D expenditure of enterprises)

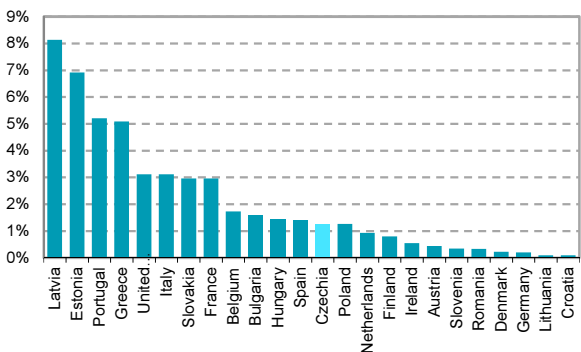
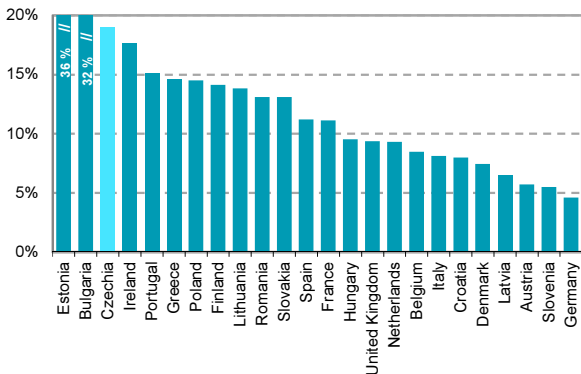


Figure G36 R&D expenditure in IT services; 2018
(% of total R&D expenditure of enterprises)



Source: CZSO calculations based on the Eurostat STI Database