

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-ekonomickych-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 2020 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

| | 2018 | 2019 | 2020 |
|---|----------------|----------------|----------------|
| Total | 169 722 | 176 484 | 178 774 |
| ICT manufacturing, total | 24 253 | 24 001 | 23 791 |
| Manufacture of electronic components peripheral equipment | 8 410 | 8 687 | 8 294 |
| Manuf. of communication equipment | 5 873 | 5 829 | 6 489 |
| Manufacture of consumer electronics | 6 129 | 5 862 | 5 495 |
| ICT services, total | 145 469 | 152 484 | 154 983 |
| ICT wholesale | 11 601 | 11 536 | 11 413 |
| Telecommunications | 22 009 | 22 374 | 21 888 |
| IT services | 111 859 | 118 573 | 121 681 |

Figure G1 Employment in the ICT sector

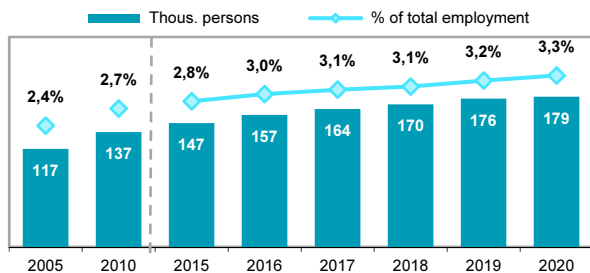


Figure G2 Employment in the ICT sector, by industry

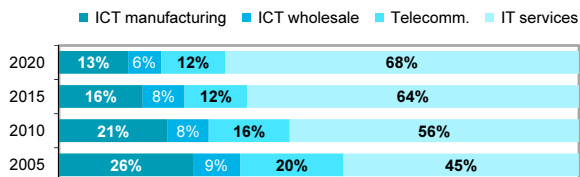


Figure G3 Employment in the ICT sector, by ownership; 2020

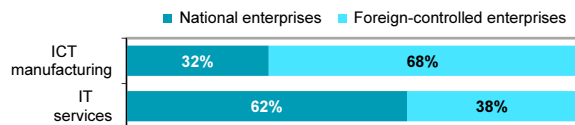
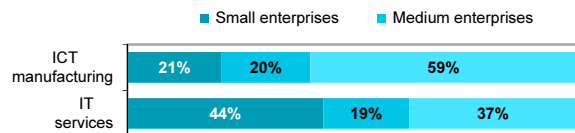


Figure G4 Employment in the ICT sector, by size; 2020



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

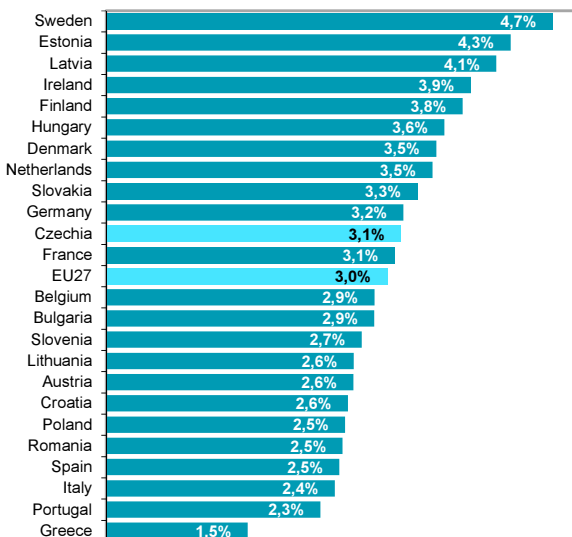
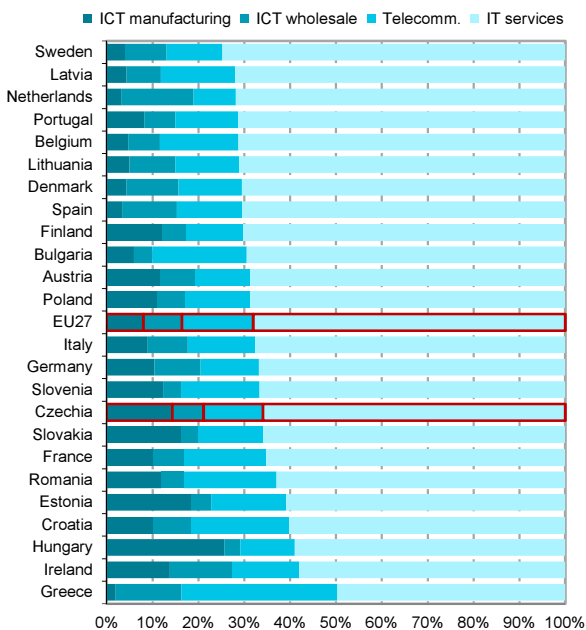


Figure G6 Employment in the ICT sector, by industry; 2018



Source: CZSO calculations based on the Eurostat SBS database

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Figure G7 Employment in ICT manufacturing in Czechia

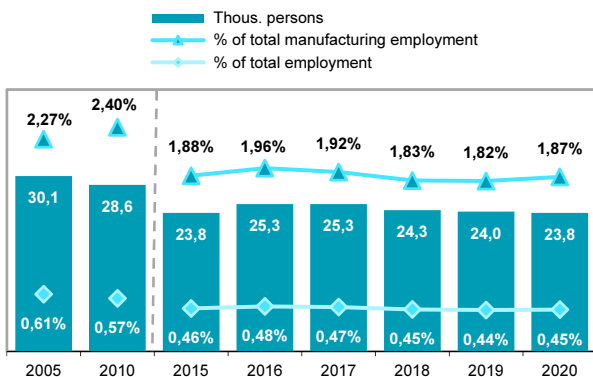


Figure G8 Employment in Telecommunications in Czechia

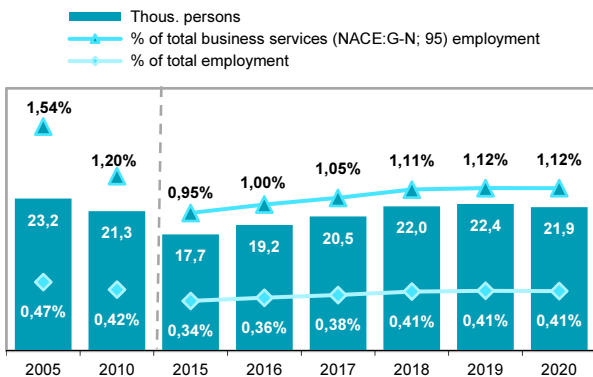
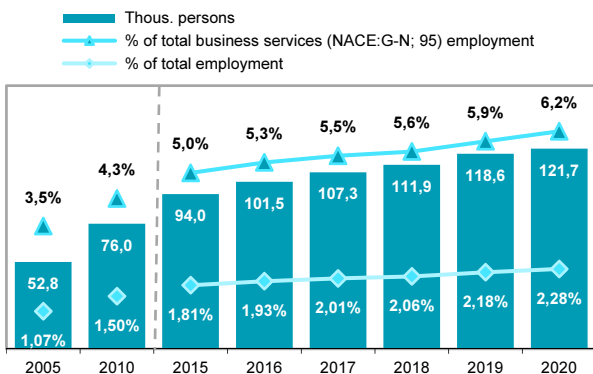


Figure G9 Employment in IT services in Czechia



Source: CZSO, Structural Business Statistics

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

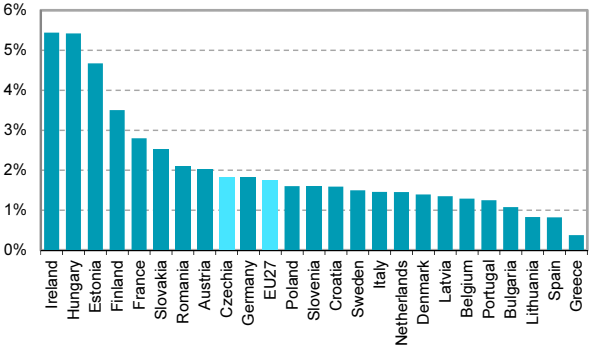


Figure G11 Employment in Telecommunications; 2018
(% of total business enterprise sector employment)

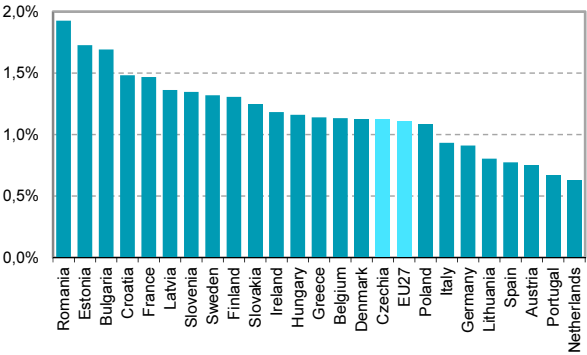
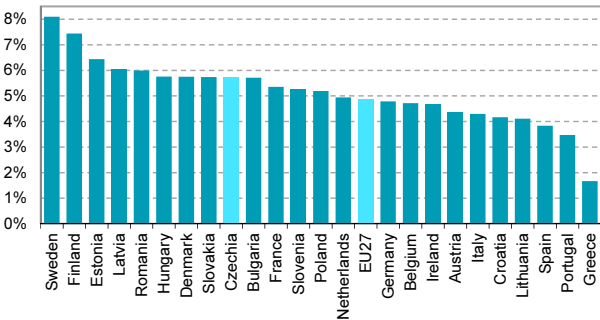


Figure G12 Employment in IT services; 2018
(% of total business enterprise sector employment)



Source: CZSO calculations based on the Eurostat SBS database

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Table G2 Turnover in the ICT sector in Czechia

CZK million

| | 2018 | 2019 | 2020 |
|---|----------------|----------------|----------------|
| Total | 847 611 | 899 422 | 914 046 |
| ICT manufacturing, total | 260 301 | 255 587 | 248 362 |
| Manufacture of electronic components peripheral equipment | 16 002 | 18 181 | 18 618 |
| Manuf. of communication equipment | 191 655 | 185 728 | 180 372 |
| Manufacture of consumer electronics | 17 416 | 18 321 | 17 512 |
| ICT services, total | 587 310 | 643 835 | 665 684 |
| ICT wholesale | 35 229 | 33 357 | 31 861 |
| Telecommunications | 162 408 | 174 289 | 175 091 |
| IT services | 127 568 | 132 752 | 131 530 |
| IT services | 297 334 | 336 794 | 359 063 |

Figure G13 Turnover in the ICT sector

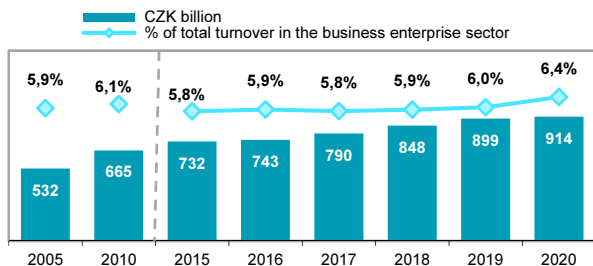


Figure G14 Turnover in the ICT sector, by industry

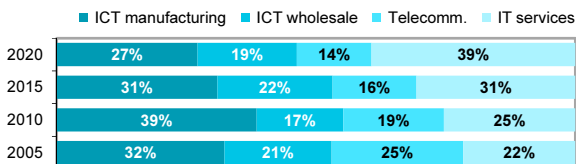


Figure G15 Turnover in the ICT sector, by ownership; 2020

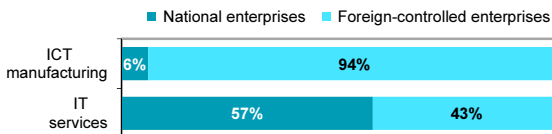
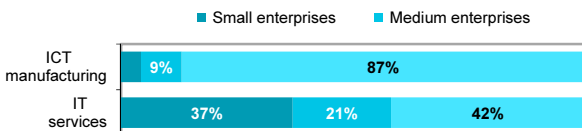


Figure G16 Turnover in the ICT sector, by size; 2020



Source: CZSO, Structural Business Statistics

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

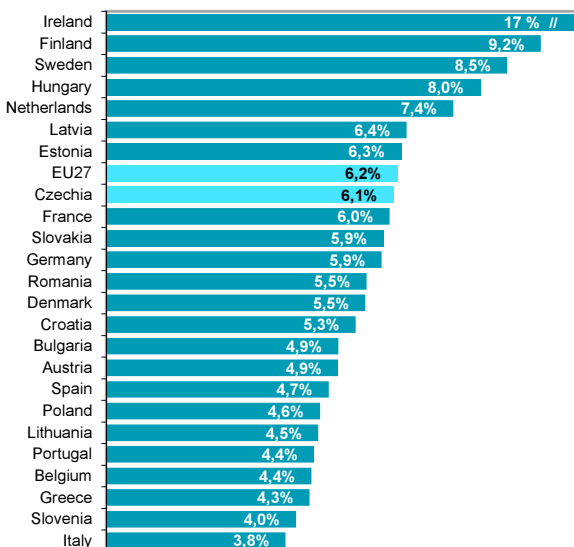
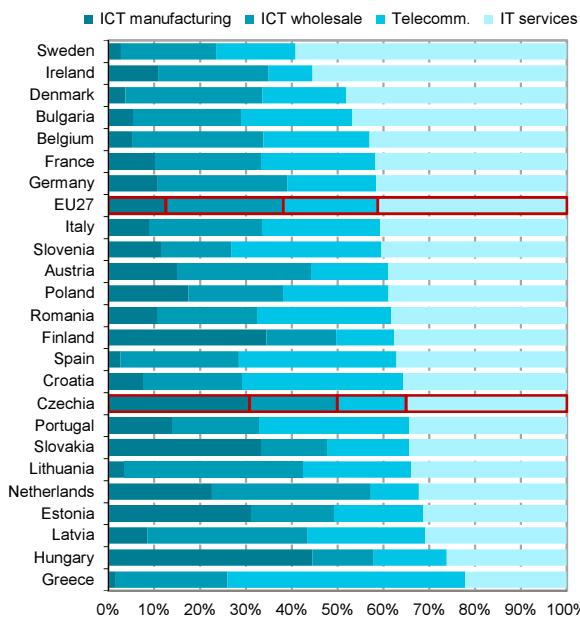


Figure E18 Turnover in the ICT sector, by industry; 2018 (%)



Source: CZSO calculations based on the Eurostat SBS database

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Figure G19 Turnover in ICT manufacturing in Czechia

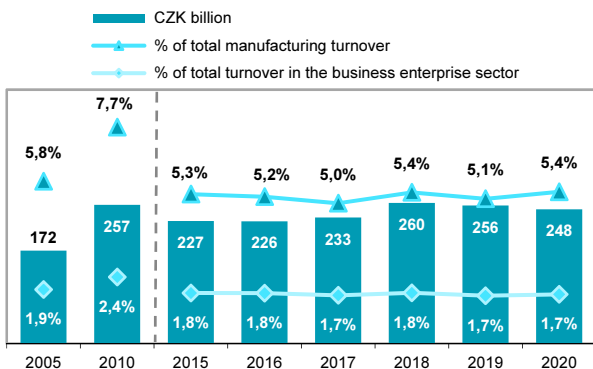


Figure G20 Turnover in Telecommunications in Czechia

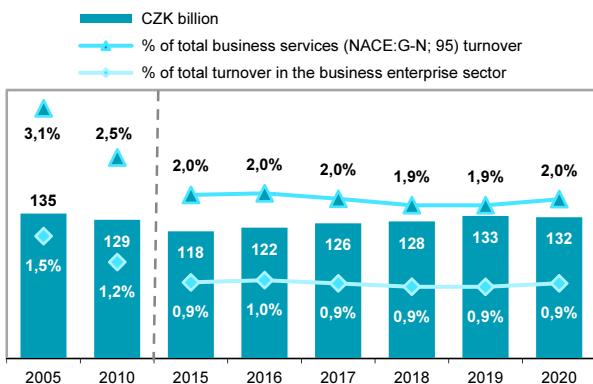
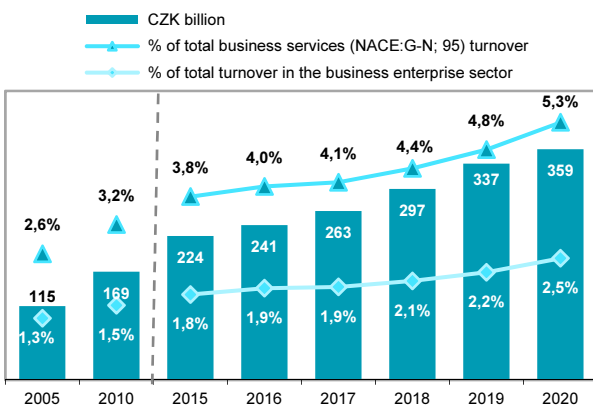


Figure G21 Turnover in IT services in Czechia



Source: CZSO, Structural Business Statistics

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

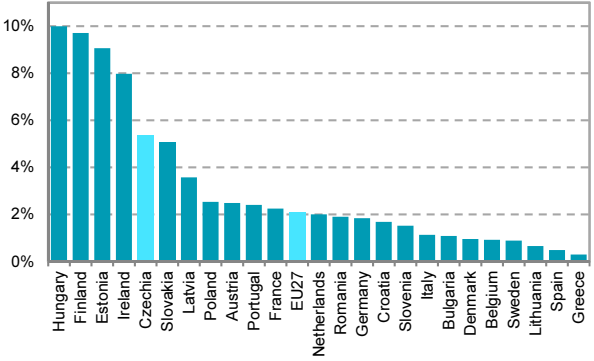


Figure G23 Turnover in Telecommunications; 2018
(% of total turnover in the business enterprise sector)

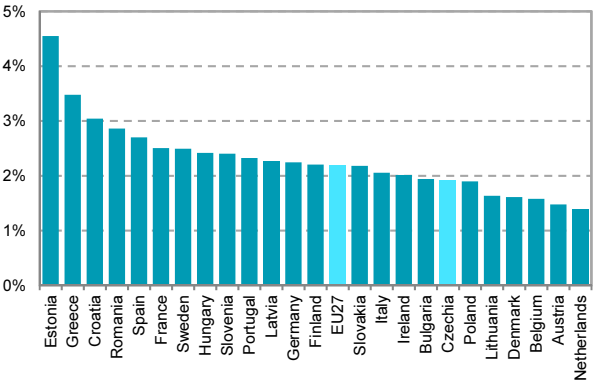
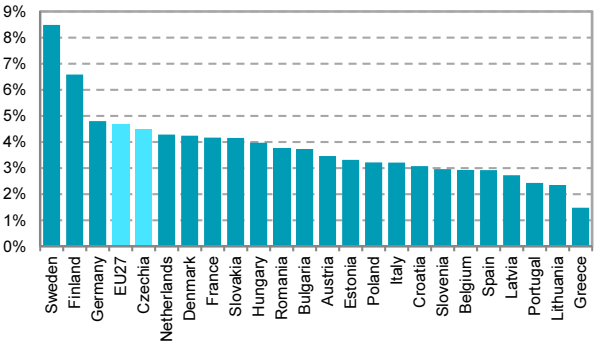


Figure G24 Turnover in IT services; 2018
(% of total turnover in the business enterprise sector)



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

CZK million

| | 2018 | 2019 | 2020 |
|---|---------------|---------------|---------------|
| Total | 13 495 | 14 600 | 16 739 |
| ICT manufacturing, total | 591 | 902 | 999 |
| Manufacture of electronic components peripheral equipment | 241 | 497 | 593 |
| Manuf. of communication equipment | 14 | 14 | 27 |
| Manufacture of consumer electronics | 299 | 337 | 342 |
| Manufacture of consumer electronics | 38 | 53 | 37 |
| ICT services, total | 12 903 | 13 698 | 15 740 |
| ICT wholesale | 86 | 234 | 225 |
| Telecommunications | 801 | 377 | 983 |
| IT services | 12 017 | 13 087 | 14 533 |

Figure G25 R&D expenditure in the ICT sector

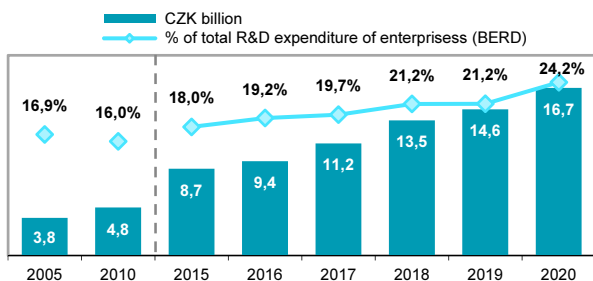


Figure G26 R&D expenditure in the ICT sector, by industry

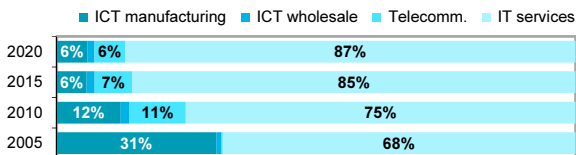


Fig.G27 R&D expenditure in the ICT sector, by ownership; 2020

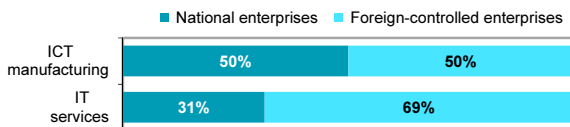
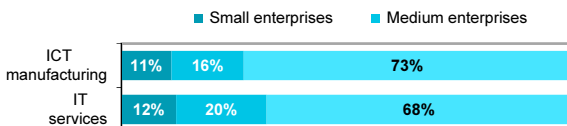


Figure G28 R&D expenditure in the ICT sector, by size; 2020



Source: CZSO, Annual R&D survey

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Figure G29 R&D expenditure in the ICT sector; 2019
(% of total R&D expenditure of enterprises)

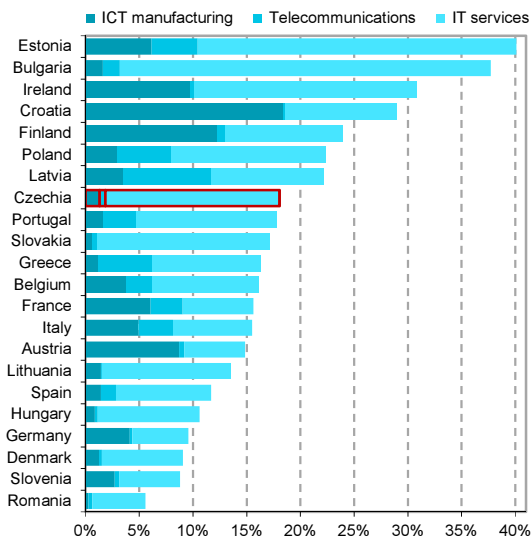
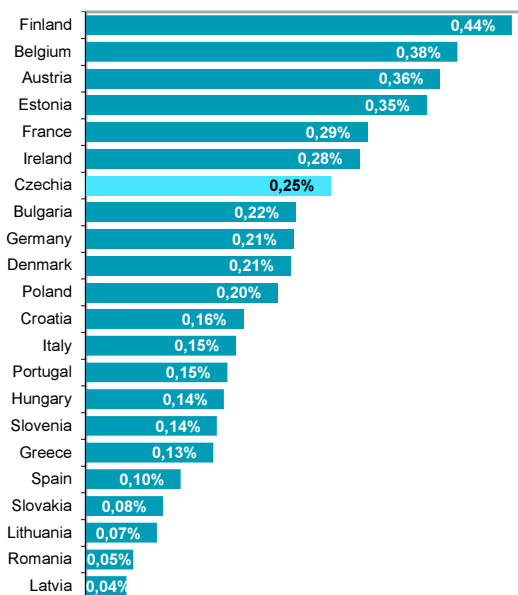


Figure G30 R&D expenditure in the ICT sector; 2019
(% of GDP)



Source: CZSO calculations based on the Eurostat STI Database

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Figure G31 R&D expenditure in ICT manufacturing in Czechia

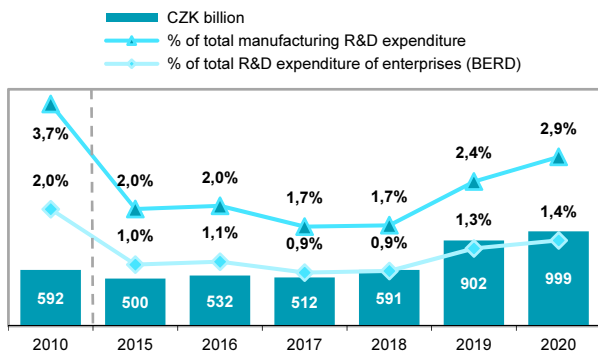


Figure G32 R&D expenditure in Telecommunications in Czechia

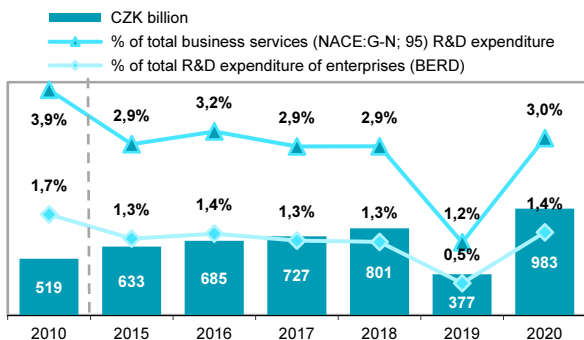


Figure G33 R&D expenditure in IT services in Czechia



R&D - Research and development

Source: CZSO, Annual R&D survey

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Figure G34 R&D expenditure in ICT manufacturing; 2019
(% of total manufacturing R&D expenditure)

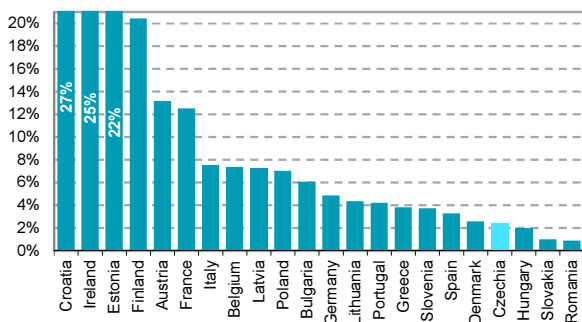


Figure G35 R&D expenditure in Telecommun.; 2019
(% of total R&D expenditure of enterprises)

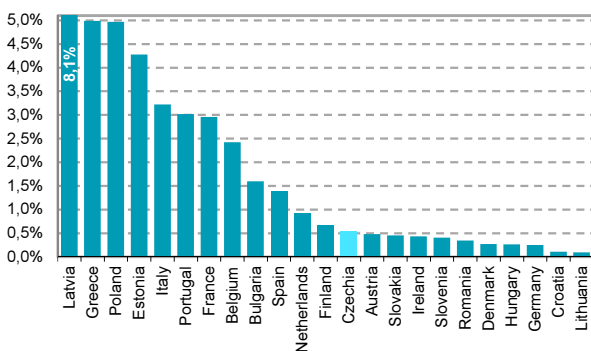


Figure G36 R&D expenditure in IT services; 2019
(% of total R&D expenditure of enterprises)

