

C ICT investment

Investments into ICT equipment and software

Investment into ICT equipment and software (hereafter **ICT investment**) is **defined** as the acquisition of equipment and computer software that is used in production for more than one year. ICT has **three components**: information technology equipment (computers and related hardware); communications equipment; and software.

Investment here shall mean the **gross fixed capital formation** (GFCF: P.51), which includes mainly acquisitions of fixed assets (P.511) and expenses for transition of non-produced assets into ownership (P.512). The definition of GFCF follows **The European System of Regional and National Accounts** (ESA 2010): <http://ec.europa.eu/eurostat/web/esa-2010>

According to **the ESA 2010**, the investments into computer and communication equipment became a part of an item of non-financial assets as **ICT equipment (AN.1132)**.

Computer software and databases (AN.1173) involve according to the ESA 2010 two sub-items as follows: **Computer software (AN.11731)** involves computer programs, program descriptions and supporting materials for both systems & application SW and **Databases (AN.11732)** that include data files organized so as to enable cost-effective data access and use.

Data on investments into ICT equipment and software are available by **Sector** (ESA 2010 Institutional Sectors Classification) and **Industry** (CZ NACE classification) of the monitored entities.

Household consumption expenditures on ICT equipment and services

Data on ICT investment within Czechia are supplemented with data on the final consumption of households in the **national concept**, which includes the expenditure of residents, both inland and abroad. In international comparisons, the **domestic concept** is used.

ICT is classified **within Czechia** to the **International standard of the Classification of Individual Consumption by Purpose (CZ-COICOP)** effective from 1 January 2024 as follows:

- **ICT equipment:** Telephone equipment, computers and their accessories, other ICT equipment and accessories, software.
- **ICT services:** fixed and mobile communication and internet services (separately accounted), bundled telecommunication services.

ICT is classified in **international comparisons** to the COICOP effective in Czechia until 31 December 2023 as follows:

- **ICT equipment:** 08.2 Telephone equipment and 09.1 Audio-visual and information processing equipment (Computers and other ICT equipment).
- **ICT services:** 08.3 Telephone services that include primarily payments for calls via landline, mobile phone and payments for Internet connection.

Detail description of COICOP is available here:

https://unstats.un.org/unsd/classifications/Econ/Download/COICOP_2018_pre_copy_edit_publication.pdf.

The both data, the total ICT investment and final household consumption expenditure on ICT come from **the Annual National Accounts Statistics**. **Data for the 2023 are preliminary**. For more information, see: <http://apl.czso.cz/pll/rocenka/rocenka.indexnu?mylang=EN>

Data for the **international comparisons** come from the **Eurostat database** and refer to the reported or nearest available year.

For more information on ICT investment see:

<https://csu.gov.cz/investment-in-ict>

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Table C1 ICT investment in Czechia

	CZK million		
	2021	2022	2023
Total	289 905	317 382	353 085
ICT equipment	91 510	90 302	93 978
Software	198 395	227 080	259 107
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	2 227	2 890	1 424
Mining and quarrying	752	484	298
Manufacturing	64 789	66 989	77 819
Electricity, gas and water supply	9 846	9 660	12 827
Construction	6 538	6 838	5 497
Wholesale and retail trade	19 391	23 679	21 801
Transportation and storage	8 815	9 579	10 708
Accommodation and food service activ.	1 786	1 899	2 011
Information and communication	104 220	117 628	132 452
Financial and insurance activities	28 836	28 721	32 897
Real estate activities	3 973	3 862	3 803
Professional, scientific and technical activ.	13 063	16 955	18 408
Administrative and support service activ.	4 462	5 041	5 813
Public administration and defence	10 304	12 357	14 288
Education	2 754	2 736	3 012
Human health and social work activities	5 289	4 685	6 453
Arts, entertainment and recreation	1 874	2 503	2 715
Other services	986	876	859

Figure C1 ICT investment

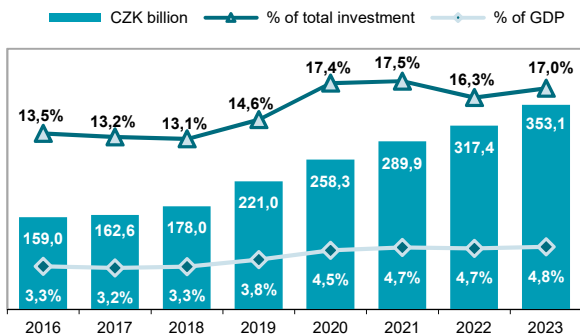
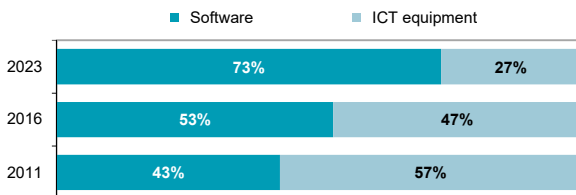


Figure C2 ICT investment, by asset



Source: CZSO, Annual National Accounts Statistics

C ICT investment

Figure C3 ICT investment; 2023* (% of GDP)

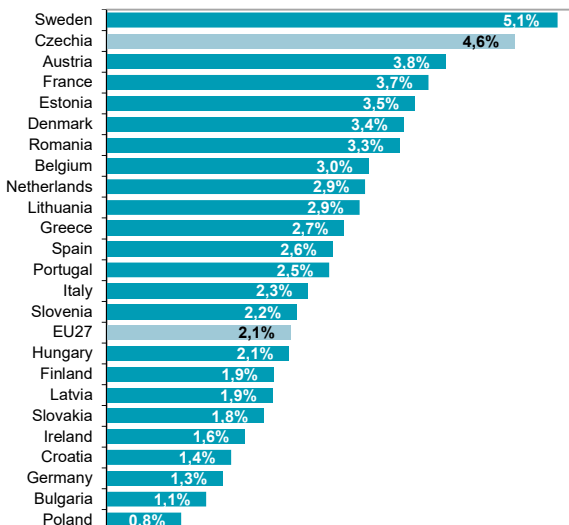
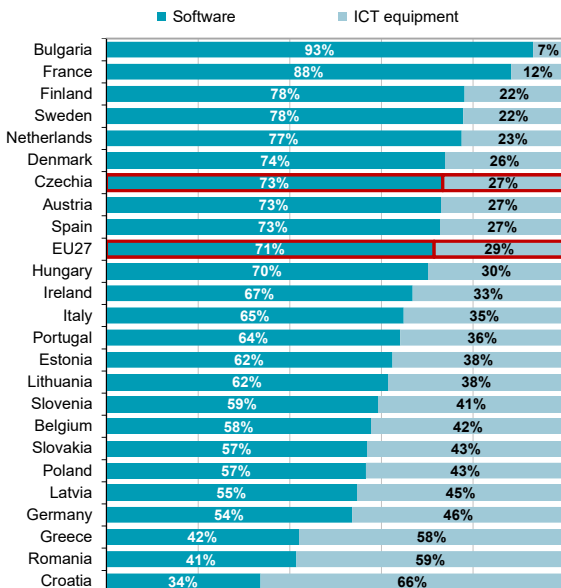


Figure C4 ICT investment, by asset (%); 2023*



* or the nearest available year

Source: CZSO calculations based on Eurostat data

C ICT investment

Table C2 ICT equipment investment in Czechia

CZK million

	2021	2022	2023
Total	91 510	90 302	93 978
in government institutions	6 188	7 646	10 177
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	1 998	2 644	1 120
Mining and quarrying	451	248	100
Manufacturing	45 871	44 006	51 874
Electricity, gas and water supply	4 674	4 007	2 269
Construction	4 953	5 004	3 322
Wholesale and retail trade	7 247	7 343	3 470
Transportation and storage	2 622	2 328	1 545
Accommodation and food service activ.	1 423	1 237	985
Information and communication	5 154	4 227	3 850
Financial and insurance activities	3 256	4 244	5 744
Real estate activities	1 552	1 885	1 284
Professional, scientific and technical activ.	2 292	3 629	6 845
Administrative and support service activ.	1 189	1 186	664
Public administration and defence	2 570	3 153	3 959
Education	1 536	1 451	1 671
Human health and social work activities	3 579	2 533	3 954
Arts, entertainment and recreation	589	631	804
Other services	554	546	518

Figure C5 ICT equipment investment

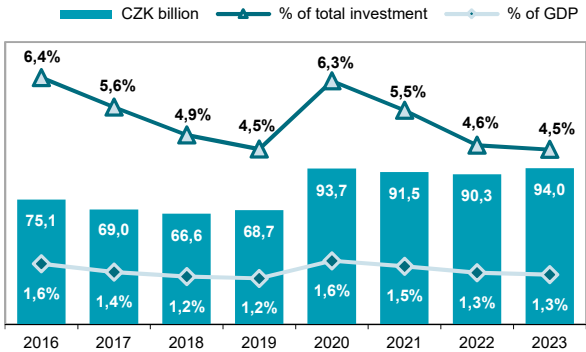
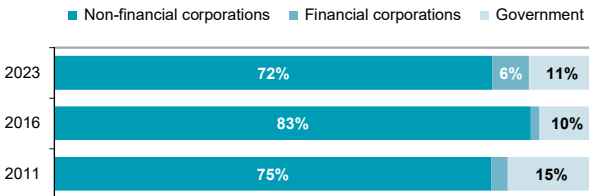


Figure C6 ICT equipment investment, by sector



Source: CZSO, Annual National Accounts Statistics

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Figure C7 ICT equipment investment; 2023* (% of GDP)

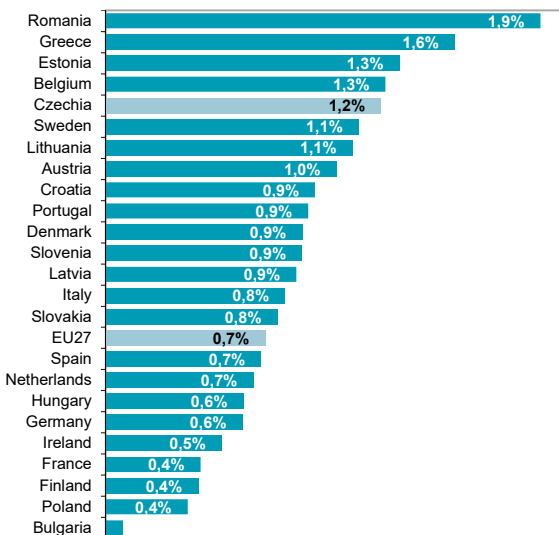
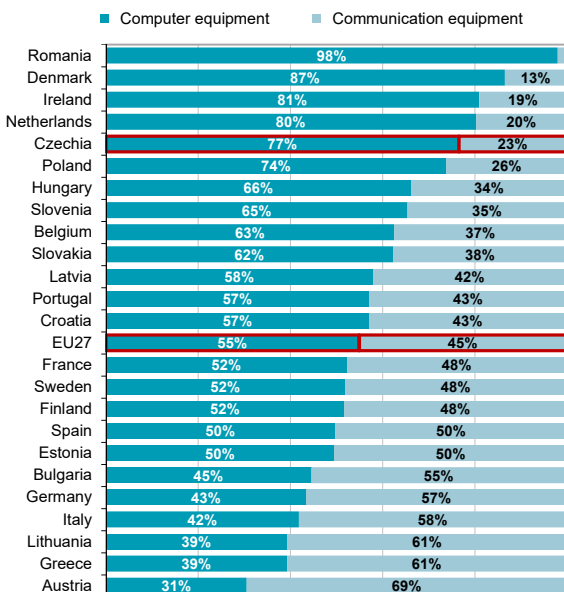


Figure C8 ICT equipment investment, by asset (%); 2023*



* or the nearest available year

Source: CZSO calculations based on Eurostat data

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Table C3 Software investment in Czechia

	CZK million		
	2021	2022	2023
Total	198 395	227 080	259 107
in government institutions	9 948	11 747	13 678
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	229	246	304
Mining and quarrying	301	236	198
Manufacturing	18 918	22 983	25 945
Electricity, gas and water supply	5 172	5 653	10 558
Construction	1 585	1 834	2 175
Wholesale and retail trade	12 144	16 336	18 331
Transportation and storage	6 193	7 251	9 163
Accommodation and food service activ.	363	662	1 026
Information and communication	99 066	113 401	128 602
Financial and insurance activities	25 580	24 477	27 153
Real estate activities	2 421	1 977	2 519
Professional, scientific and technical activ.	10 771	13 326	11 563
Administrative and support service activ.	3 273	3 855	5 149
Public administration and defence	7 734	9 204	10 329
Education	1 218	1 285	1 341
Human health and social work activities	1 710	2 152	2 499
Arts, entertainment and recreation	1 285	1 872	1 911
Other services	432	330	341

Figure C9 Software investment

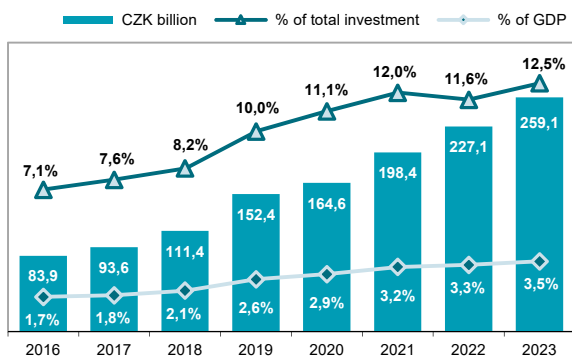
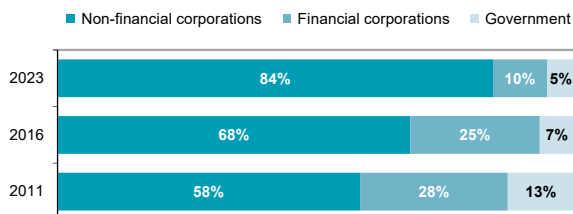


Figure C10 Software investment, by sector



Source: CZSO, Annual National Accounts Statistics

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Figure C11 Software investment; 2023*
(% of total investment)

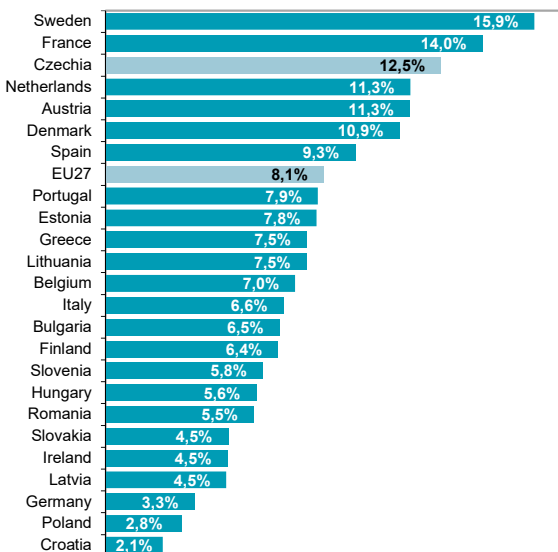
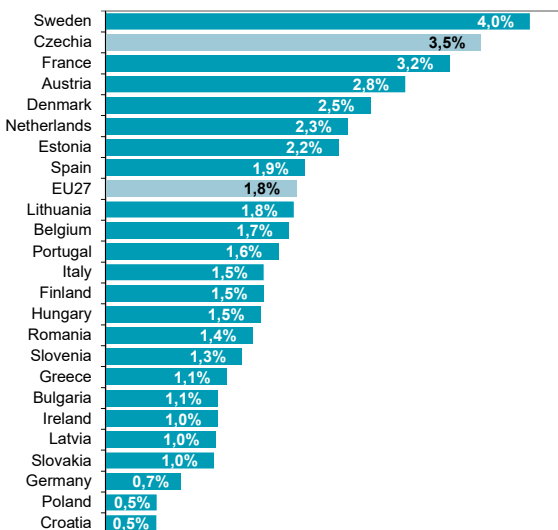


Figure C12 Software investment, 2023* (% of GDP)



* or the nearest available year

Source: CZSO calculations based on Eurostat data

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Table C4 Household consumption expenditures on ICT equipment and services in Czechia

CZK million

	2021	2022	2023
Total	114 794	115 076	122 371
ICT equipment	40 829	41 855	43 126
Telephone equipment	7 532	7 880	8 115
Computers and their accessories	21 277	21 441	21 672
Other ICT equipment and accessories	12 020	12 534	13 339
Software	1 138	1 373	1 329
ICT services	72 827	71 848	77 916
Fixed communication services	14 449	14 926	15 928
Mobile communication services	35 894	34 380	34 388
Bundled telecommunication services	22 484	22 542	27 600

Figure C13 Household consumption expenditures on ICT equipment and services

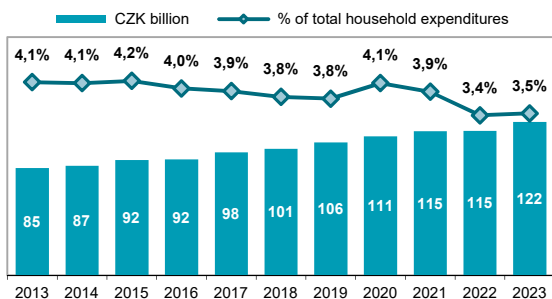


Figure C14 Household expenditures on ICT, by product

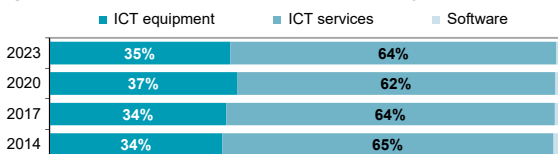
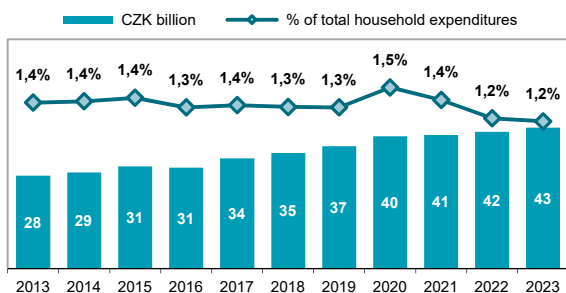


Figure C15 Households expenditures on ICT equipment



Source: CZSO, Annual National Accounts Statistics

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Figure C16 Household expenditures on ICT; 2023*
(% of total households consumption expenditures)

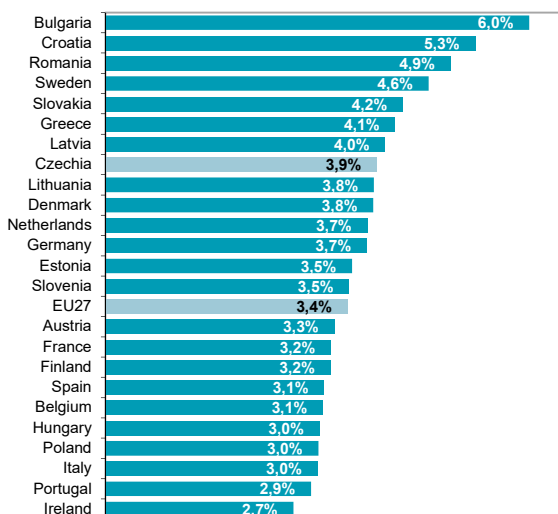
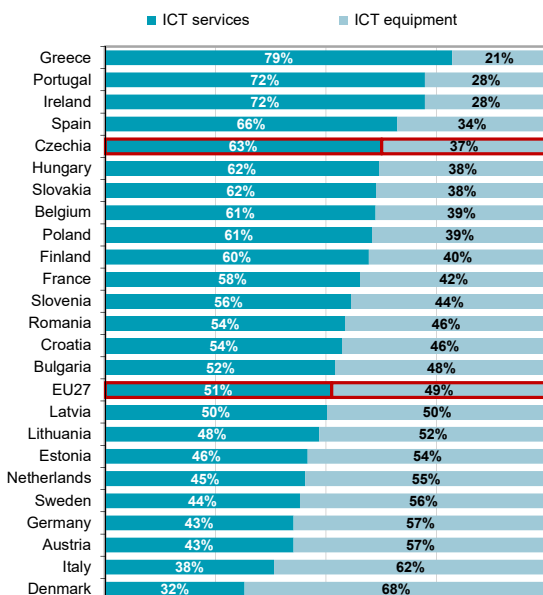


Figure C17 Household expenditures on ICT, by type of product; 2023* (%)



* or the nearest available year

Source: CZSO calculations based on Eurostat data

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Figure C18 Household expenditures on ICT services; 2023* (% of total households expenditures)

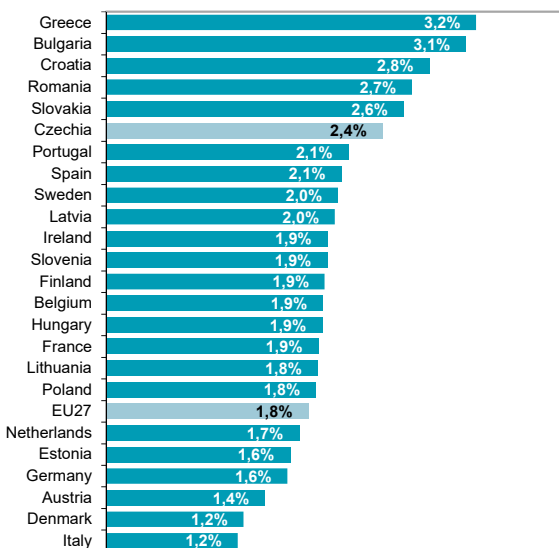
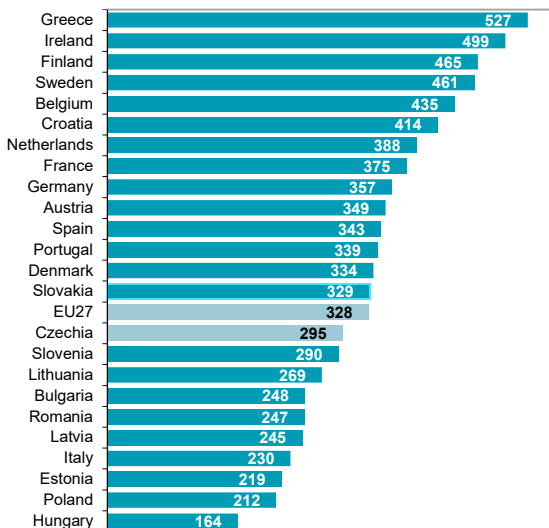


Figure C19 Household expenditures on ICT services; 2023* (EUR per capita)



* or the nearest available year

Source: CZSO calculations based on Eurostat data