Investments into ICT equipment and software

Investments into ICT equipment and software (hereafter ICT investment) in the tables shall mean the gross fixed capital formation (GFCF: P.51), which includes mainly acquisitions of fixed assets (P.511) used in the production processes repeatedly or continuously for more than one year 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).

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

Computer software and databases (AN.1173) involve according to this 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) includes data files organized so as to enable cost-effective data access and use. More about ESA 2010 at: http://ec.europa.eu/eurostat/web/esa-2010

ICT equipment is classified to the groups of the Classification of Products by Activity (CZ-CPA) as follows: 26.2 Computers and peripheral equipment and 26.3 Communication equipment. Software is classified to the groups of the CZ-CPA as follows: 62.0 Computer programming, consultancy and related services and 63.1 Data processing, hosting and related services; web portals. Detail description of CZ-CPA is available here (only in Czech): https://www.czso.cz/csu/czso/klasifikace-produkce-cz-cpa-

Data on investments into ICT equipment and software are available by **institutional sectors** and **economic activities** of the monitored entities according to the CZ NACE classification.

Household consumption expenditures on ICT equipment and services

Data on ICT investment in this chapter are supplemented with data on the final consumption of households in the **national concept**, which includes expenditure of residents in Czechia and abroad spent on ICT dedicated to direct satisfaction of personal needs and wishes of individuals.

ICT is classified here to the International standard of the Classification of Individual Consumption by Purpose (CZ-COICOP) as follows:

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

Note: Item **telecommunication** includes **08.2** Telephone equipment and **08.3** Telephone (ICT) services.

Detail description of CZ- COICOP is available here (only in Czech): https://www.czso.cz/csu/czso/klasifikace individualni spotreby -cz coicop-

The both data, the total ICT investment and final household consumption expenditure on ICT come from the Annual National Accounts Statistics. Data for the 2019 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 (only in Czech):

https://www.czso.cz/csu/czso/investice v ict

Table C1 ICT investment in Czechia

CZK million

			OZIV IIIIIIIOII
	2017	2018	2019
Total	194 625	233 830	244 873
ICT equipment	76 809	82 840	83 780
Software	117 816	150 990	161 093
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	2 123	2 197	1 149
Mining and quarrying	455	578	230
Manufacturing	54 004	58 101	65 585
Electricity, gas and water supply	6 003	6 035	5 918
Construction	4 193	4 416	4 846
Wholesale and retail trade	13 643	16 895	15 602
Transportation and storage	5 473	7 739	7 901
Accommodation and food service activities	1 530	2 030	1 919
Information and communication	51 594	68 858	70 615
Financial and insurance activities	22 897	27 208	27 629
Real estate activities	1 958	2 466	2 723
Professional, scientific and technical activation	10 820	14 651	18 826
Administrative and support service activ.	2 458	2 919	2 508
Public administration and defence	7 863	9 225	9 817
Education	2 906	3 708	3 240
Human health and social work activities	3 327	4 224	3 915
Arts, entertainment and recreation	1 468	1 905	1 985
Other services	1 910	675	465

Figure C1 ICT investment



Figure C2 ICT investment, by asset (%)



Sweden Czechia France Netherlands Austria Lithuania Belgium Denmark United Kingdom Spain EU28 Italy Finland Slovenia Portugal Greece Latvia Hungary 2018* Romania Ireland 2008 Germany Slovakia

Figure C3 ICT investment (% of GDP)

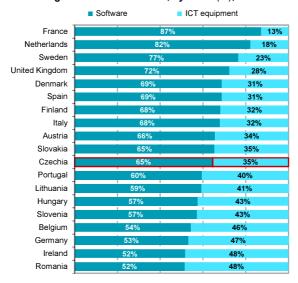
2% Figure C4 ICT investment, by asset (%); 2018*

3%

4%

5%

1%



^{*} or the nearest available year

Table C2 ICT equipment investment in Czechia

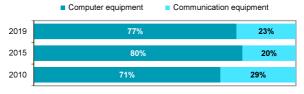
CZK million

	OZIVIIIIII		
	2017	2018	2019
Total	76 809	82 840	83 780
Computer equipment	57 302	63 956	64 845
Communication equipment	19 507	18 884	18 935
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	1 804	1 726	628
Mining and quarrying	372	483	122
Manufacturing	39 609	40 263	46 257
Electricity, gas and water supply	3 798	3 104	2 802
Construction	2 934	2 947	3 240
Wholesale and retail trade	3 860	3 985	1 072
Transportation and storage	1 477	2 252	2 013
Accommodation and food service activities	1 216	1 615	1 473
Information and communication	7 851	9 549	6 307
Financial and insurance activities	1 082	1 662	2 865
Real estate activities	655	715	872
Professional, scientific and technical activ.	3 506	3 491	6 749
Administrative and support service activ.	623	615	80
Public administration and defence	3 080	3 898	3 786
Education	1 669	2 605	2 208
Human health and social work activities	2 282	3 010	2 393
Arts, entertainment and recreation	646	623	609
Other services	345	297	304

Figure C5 ICT equipment investment



Figure C6 ICT equipment investment, by asset



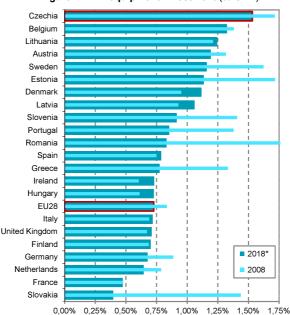
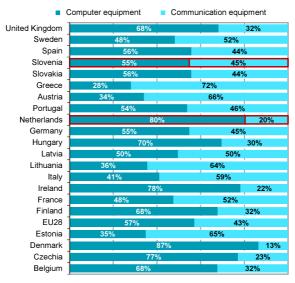


Figure C7 ICT equipment investment (% GDP)





^{*} or the nearest available year

Table C3 Software investment in Czechia

CZK million

	CZR millio		
	2017	2018	2019
Total	117 816	150 990	161 093
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	319	471	521
Mining and quarrying	83	95	108
Manufacturing	14 395	17 838	19 328
Electricity, gas and water supply	2 205	2 931	3 116
Construction	1 259	1 469	1 606
Wholesale and retail trade	9 783	12 910	14 530
Transportation and storage	3 996	5 487	5 888
Accommodation and food service activitie	314	415	446
Information and communication	43 743	59 309	64 308
Financial and insurance activities	21 815	25 546	24 764
Real estate activities	1 303	1 751	1 851
Professional, scientific and technical acti	7 314	11 160	12 077
Administrative and support service activ.	1 835	2 304	2 428
Public administration and defence	4 783	5 327	6 031
Education	1 237	1 103	1 032
Human health and social work activities	1 045	1 214	1 522
Arts, entertainment and recreation	822	1 282	1 376
Other services	1 565	378	161

Figure C9 Software investment

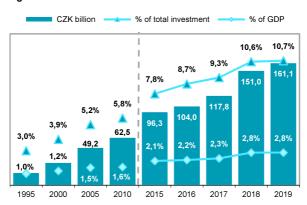


Figure C10 Software investment, by institutional sectors

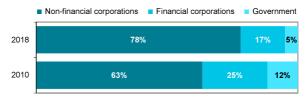


Figure C11 Software investment

(% of total investment)

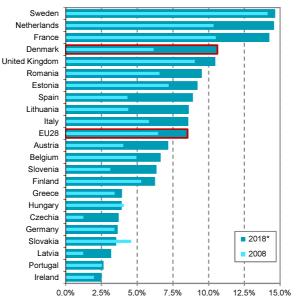
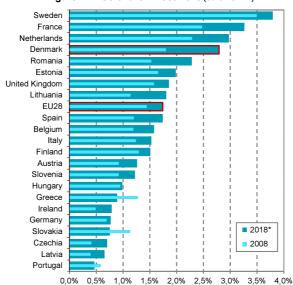


Figure C12 Software investment (% of GDP)



^{*} or the nearest available year

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

CZK million

	2017	2018	2019
Total	99 995	102 372	109 874
ICT equipment	37 170	38 837	43 734
Telephone equipment	6 587	8 119	9 452
Computers and consumer electronics	30 583	30 718	34 282
ICT (telephone) services	62 825	63 535	66 140

Figure C13 Household consumption expenditures on ICT

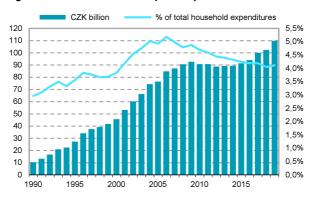


Figure C14 Household expenditures on ICT, by type of product

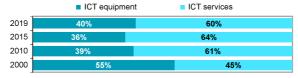


Figure C15 Households expenditures on ICT equipment

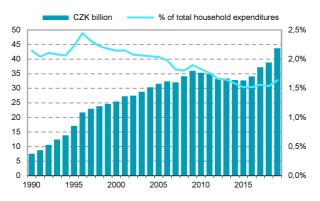


Figure C16 Household consumption expenditures on ICT (% of total households consumption expenditures)

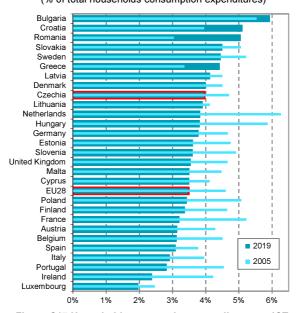


Figure C17 Household consumption expenditures on ICT, by type of product; 2019 (%)

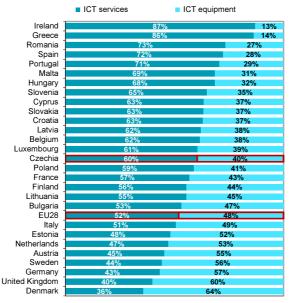


Table C5 Household consumption expenditures on telecommunication in Czechia

CZK million

	2016	2017	2018
Total	62 573	64 780	68 727
Telephone equipment	4 921	5 355	5 781
Telephone (ICT) services	57 652	59 425	62 946

Figure C18 Household expenditures on telecommunication

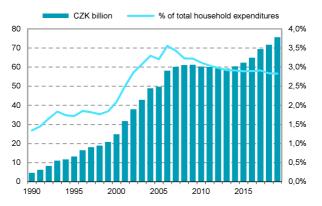


Figure C19 Household expenditures on telecommunication, by type of product

	_	l elephone equipment	l elephone (ICT) services	
2019	13%		87%	
2015 69	6		94%	
2010 8	%		92%	
2005	0%		90%	
2000	15%		85%	

Figure C20 Household expenditures on ICT services

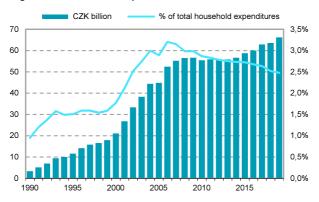


Figure C21 Household consumption expenditures on ICT services (% of total households consumption expenditures)

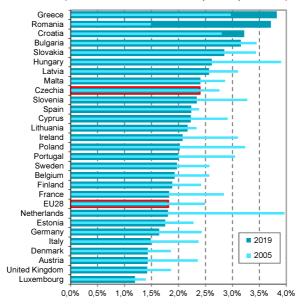


Figure C22 Household consumption expenditures on ICT services; 2019 (EUR per capita)

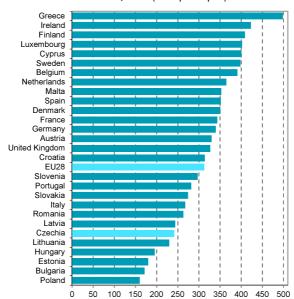


Figure C23 Household consumption expenditures on ICT equipment (% of total households consumption expenditures)

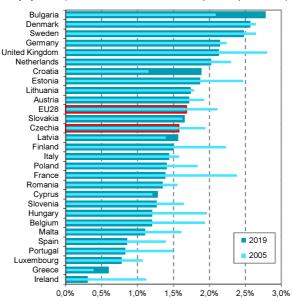


Figure C24 Household consumption expenditures on ICT equipment; 2019 (EUR per capita)

