B. 1 Investment in 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. The definition of GFCF used here follows The European System of Regional and National Accounts (ESA 2010).

ICT investment has three components: information technology (IT) equipment (computers and related hardware), communications equipment and computer software and databases (hereafter software). Software includes acquisition of pre-packaged software, customized software and software developed in-house (own-account software).

ICT assets can be also classified to the groups of the Classification of Products by Activity (CZ-CPA) as follows:

- ICT equipment: Computers and peripheral equipment (26.2);
 Communication equipment (26.3) and Consumer electronics (26.4)
- IT services (software): Software publishing services (58.2);
 Computer programming, consultancy and related services (62.0) and
 Data processing, hosting and related services; web portals (63.1).

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

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

B. 2 Households expenditures on ICT equipment and ICT services

Data on the total ICT investment in this chapter are supplemented with data on Final ICT consumption expenditure of households. The final consumption expenditure of households is recorded in international classification COICOP. This is a classification where individual items of consumption are divided according to its purpose.

ICT equipment and ICT services according to this classification include the following items:

- ICT equipment: Telephone and telefax equipment (08.2); Audiovisual, photographic and information processing equipment (09.1)
- Telecommunication (ICT) services: Telephone and telefax services (08.3). This category contains primarily payments for calls via landline, mobile phone and payments for Internet connection.

The both data, the total ICT investment and final household consumption expenditure on ICT equipment and ICT services come from the Annual National Accounts Statistics of the Czech Statistical Office. 2016 data are preliminary. For more information see:

http://apl.czso.cz/pll/rocenka/rocenka.indexnu?mylang=EN

For the international comparison OECD and Eurostat data sources were used.

Further information on ICT investment can be found at (only in Czech): https://www.czso.cz/csu/czso/investice v ict

Table B1 ICT investment in the Czech Republic

CZK million

OZIVIIIII			OZIV IIIIIIOII
	2014	2015	2016*
Total	155 156	192 247	191 226
ICT equipment	77 338	95 977	93 238
Computer software and databases	77 818	96 270	97 988
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	951	808	2 284
Mining and quarrying	542	522	642
Manufacturing	44 469	53 940	65 374
Electricity, gas and water supply	4 524	5 372	7 143
Construction	2 986	3 246	4 013
Wholesale and retail trade	9 326	11 300	13 390
Transportation and storage	3 759	5 031	5 043
Accommodation and food service activities	1 535	1 650	1 742
Information and communication	41 599	49 744	40 451
Financial and insurance activities	13 569	19 217	20 657
Real estate activities	1 476	1 731	1 765
Professional, scientific and technical activ.	8 267	10 367	10 255
Administrative and support service activ.	1 482	1 964	2 174
Public administration and defence	9 902	12 484	7 104
Education	4 988	5 468	2 477
Human health and social work activities	3 768	6 274	3 865
Arts, entertainment and recreation	902	1 535	1 201
Other services	1 111	1 594	1 646
+ Destinates and state			

^{*} Preliminary data

Figure B1 Total ICT investment

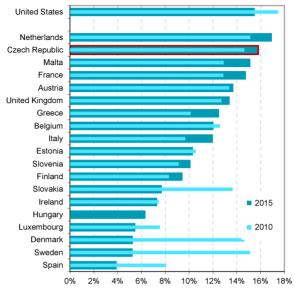


GFCF - Gross Fixed Capital Formation (total investment)

Figure B2 ICT investment by asset (%)

_	■ Computer software and dat	abases ICT equipment
2016	51%	49%
2011	49%	51%
2006	47%	53%

Figure B3 ICT investment (% of total GFCF)



GFCF - Gross Fixed Capital Formation (total investment)

Figure B4 ICT investment (% GDP)

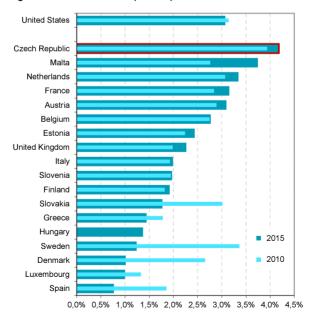
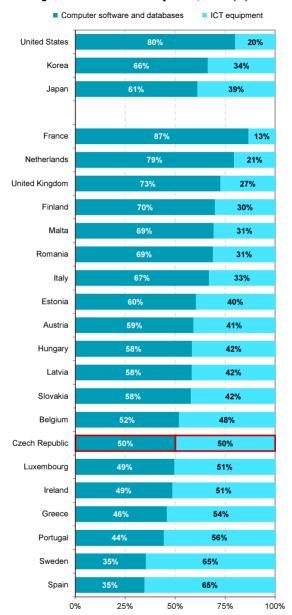


Figure B5 ICT investment by asset; 2015* (%)



^{*} or the latest year available

Figure B6 ICT investment by asset; 2015* (EUR billion)

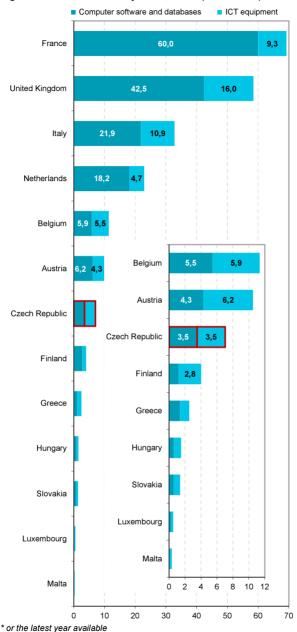


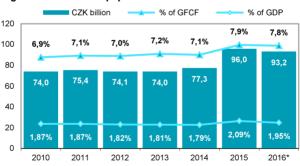
Table B2 ICT equipment investment in the Czech Republic

CZK million

Total 2014 2015 2016* Total 77 338 95 977 93 238 Computer (IT) equipment 55 680 76 398 73 094 Communication equipment 21 658 19 579 20 144 Industry (CZ-NACE Section) 4 88 1 960 Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195				CZK million
Computer (IT) equipment 55 680 76 398 73 094 Communication equipment 21 658 19 579 20 144 Industry (CZ-NACE Section) 41 683 498 1 960 Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and def		2014	2015	2016*
Communication equipment 21 658 19 579 20 144 Industry (CZ-NACE Section) Agriculture, forestry and fishing 683 498 1 960 Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 <	Total	77 338	95 977	93 238
Industry (CZ-NACE Section) 498 1 960 Agriculture, forestry and fishing 683 498 1 960 Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868	Computer (IT) equipment	55 680	76 398	73 094
Agriculture, forestry and fishing 683 498 1 960 Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, ente	Communication equipment	21 658	19 579	20 144
Mining and quarrying 419 431 551 Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and r	Industry (CZ-NACE Section)			
Manufacturing 34 135 41 090 52 073 Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Agriculture, forestry and fishing	683	498	1 960
Electricity, gas and water supply 2 836 3 528 5 146 Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Mining and quarrying	419	431	551
Construction 2 142 2 353 3 111 Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Manufacturing	34 135	41 090	52 073
Wholesale and retail trade 2 791 2 816 4 708 Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Electricity, gas and water supply	2 836	3 528	5 146
Transportation and storage 1 266 1 949 1 762 Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Construction	2 142	2 353	3 111
Accommodation and food service activities 1 310 1 360 1 448 Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Wholesale and retail trade	2 791	2 816	4 708
Information and communication 14 245 16 426 5 781 Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Transportation and storage	1 266	1 949	1 762
Financial and insurance activities 933 2 499 3 165 Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Accommodation and food service activities	1 310	1 360	1 448
Real estate activities 531 668 689 Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Information and communication	14 245	16 426	5 781
Professional, scientific and technical activ. 3 209 4 195 3 677 Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Financial and insurance activities	933	2 499	3 165
Administrative and support service activ. 381 624 776 Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Real estate activities	531	668	689
Public administration and defence 4 837 6 789 3 020 Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Professional, scientific and technical activ.	3 209	4 195	3 677
Education 3 868 4 385 1 487 Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Administrative and support service activ.	381	624	776
Human health and social work activities 2 986 5 283 2 976 Arts, entertainment and recreation 544 828 621	Public administration and defence	4 837	6 789	3 020
Arts, entertainment and recreation 544 828 621	Education	3 868	4 385	1 487
, , , , , , , , , , , , , , , , , , , ,	Human health and social work activities	2 986	5 283	2 976
Other services 222 255 287	Arts, entertainment and recreation	544	828	621
	Other services	222	255	287

^{*} Preliminary data

Figure B7 Total ICT equipment investment

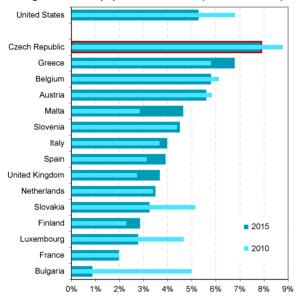


GFCF - Gross Fixed Capital Formation (total investment)

Figure B8 ICT equipment investment by asset



Figure B9 ICT equipment investment (% of total GFCF)



GFCF - Gross Fixed Capital Formation (total investment)

Figure B10 ICT equipment investment (% of GDP)

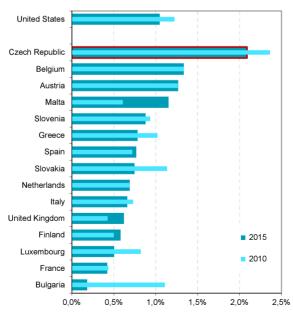


Table B3 Software investment in the Czech Republic

CZK million

			CZIX IIIIIIOII
	2014	2015	2016*
Total	77 818	96 270	97 988
own-account software	17 815		
Туре			
Computer Software	63 584	79 772	81 274
Databases	14 234	16 498	16 714
Industry (CZ-NACE Section)			
Agriculture, forestry and fishing	268	310	324
Mining and quarrying	123	91	91
Manufacturing	10 334	12 850	13 301
Electricity, gas and water supply	1 688	1 844	1 997
Construction	844	893	902
Wholesale and retail trade	6 535	8 484	8 682
Transportation and storage	2 493	3 082	3 281
Accommodation and food service activities	225	290	294
Information and communication	27 354	33 318	34 670
Financial and insurance activities	12 636	16 718	17 492
Real estate activities	945	1 063	1 076
Professional, scientific and technical activ.	5 058	6 172	6 578
Administrative and support service activ.	1 101	1 340	1 398
Public administration and defence	5 065	5 695	4 084
Education	1 120	1 083	990
Human health and social work activities	782	991	889
Arts, entertainment and recreation	358	707	580
Other services	889	1 339	1 359

^{*} Preliminary data

Figure B11 Total software investment



GFCF - Gross Fixed Capital Formation (total investment)

Figure B12 Software investment by sector

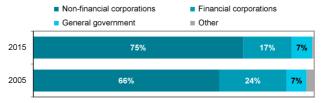


Figure B13 Software investment (% of total GFCF)



GFCF - Gross Fixed Capital Formation (total investment)

Figure B14 Software investment (% of GDP)

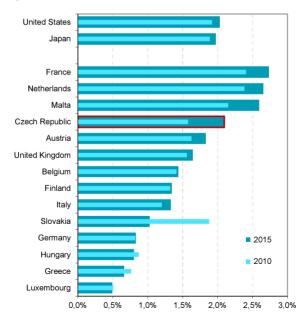


Table B4 Household consumption expenditures on ICT equipment and services in the Czech Republic

CZK million

	2014	2015	2016*
Total	86 984	88 331	90 786
Total ICT equipment	31 333	31 413	32 931
Telephone equipment	3 256	3 210	3 416
Computers and consumer electronics	28 077	28 203	29 515
Telecommunication (ICT) services	55 651	56 918	57 855

^{*} Preliminary data

Figure B15 Total household consumption expenditures on ICT

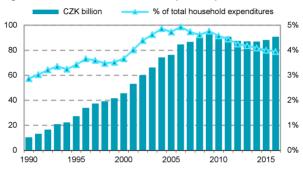


Figure B16 Households ICT expenditures by commodities

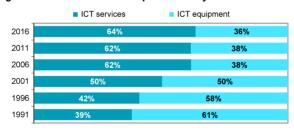


Figure B17 Households ICT equipment expenditures

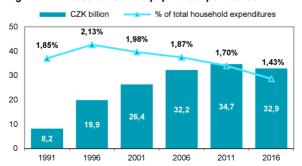


Figure B18 Household consumption expenditures on ICT; (% of total households consumption expenditures)

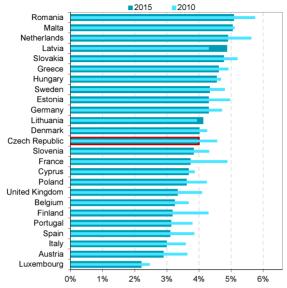


Figure B19 Household ICT expenditures by commodities; 2015 (%)

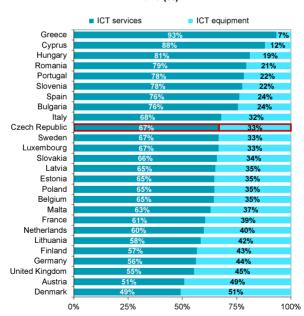


Table B5 Household consumption expenditures on telecommunication in the Czech Republic

CZK million

	2014	2015	2016
Total	58 907	59 228	61 271
Telephone equipment	3 256	2 310	3 416
Telecommunication services	55 651	56 918	57 855

Figure B20 Household expenditures on telecommunication

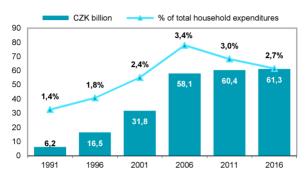


Figure B21 Household expenditures on telecommunication by commodities

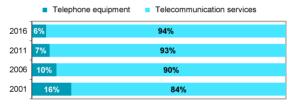


Figure B22 Household expenditures on telecommunication services



Figure B23 Household expenditures on telecommunication services (% of total households expenditures)

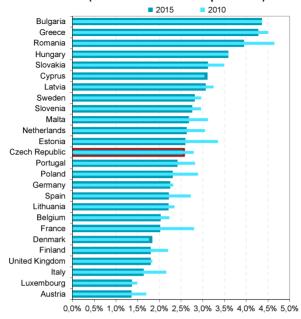


Figure B24 Household expenditures on telecommunication services (per 1 inhabitant, in EUR)

