ICT investment

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 by asset type has three main components: computer equipment, communications equipment and computer software and databases (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), the national version of the European standard of the Statistical Classification of Products by Activity (CPA 2008), as follows:

- ICT equipment: Computers and peripheral equipment (26.2);
 Communication equipment (26.3) and Consumer electronics (26.4)
- 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.

Households expenditures on ICT equipment and 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. 2018 data are preliminary. For more information, see:

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

Data for international comparisons refer to the reported or nearest available year.

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 Czechia

CZK million

| CZK IIIIIIOI | | | CZK IIIIIIIIII |
|---|---------|---------|----------------|
| | 2016 | 2017 | 2018 |
| Total | 191 276 | 200 568 | 205 933 |
| ICT equipment | 87 256 | 90 047 | 83 149 |
| Software | 104 020 | 110 521 | 122 784 |
| Industry (CZ-NACE Section) | | | |
| Agriculture, forestry and fishing | 2 094 | 2 393 | 2 252 |
| Mining and quarrying | 573 | 665 | 617 |
| Manufacturing | 57 057 | 62 484 | 58 061 |
| Electricity, gas and water supply | 7 620 | 7 361 | 6 164 |
| Construction | 4 189 | 4 666 | 4 266 |
| Wholesale and retail trade | 12 633 | 14 600 | 15 153 |
| Transportation and storage | 5 437 | 6 339 | 7 379 |
| Accommodation and food service activities | 1 954 | 2 165 | 1 821 |
| Information and communication | 47 037 | 43 882 | 49 835 |
| Financial and insurance activities | 22 665 | 21 878 | 23 151 |
| Real estate activities | 1 675 | 1 849 | 1 871 |
| Professional, scientific and technical activ. | 10 061 | 11 817 | 11 479 |
| Administrative and support service activ. | 2 336 | 2 707 | 2 958 |
| Public administration and defence | 7 225 | 7 753 | 9 066 |
| Education | 2 297 | 2 847 | 4 138 |
| Human health and social work activities | 3 575 | 3 621 | 4 171 |
| Arts, entertainment and recreation | 1 282 | 1 326 | 1 610 |
| Other services | 1 566 | 1 710 | 1 941 |

Figure B1 ICT investment



Figure B2 ICT investment, by asset

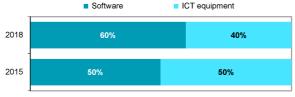


Figure B3 ICT investment; 2017 (% of GDP)

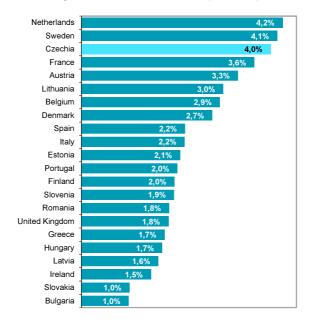


Figure B4 ICT investment, by asset; 2017

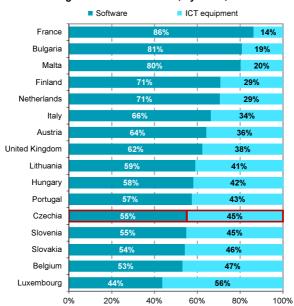


Table B2 ICT equipment investment in Czechia

CZK million

| CZK IIIIIIOII | | | |
|---|--------|--------|--------|
| | 2016 | 2017 | 2018 |
| Total | 87 256 | 90 047 | 83 149 |
| Computer equipment | 64 221 | 67 087 | 62 111 |
| Communication equipment | 23 035 | 22 960 | 21 038 |
| Industry (CZ-NACE Section) | | | |
| Agriculture, forestry and fishing | 1 809 | 2 033 | 1 849 |
| Mining and quarrying | 454 | 539 | 479 |
| Manufacturing | 43 374 | 47 793 | 42 733 |
| Electricity, gas and water supply | 5 441 | 4 879 | 3 784 |
| Construction | 3 162 | 3 579 | 3 067 |
| Wholesale and retail trade | 4 057 | 5 225 | 4 643 |
| Transportation and storage | 1 743 | 2 037 | 2 568 |
| Accommodation and food service activities | 1 694 | 1 878 | 1 490 |
| Information and communication | 11 564 | 5 812 | 4 971 |
| Financial and insurance activities | 1 148 | 1 256 | 1 669 |
| Real estate activities | 685 | 816 | 736 |
| Professional, scientific and technical activ. | 3 377 | 4 425 | 3 414 |
| Administrative and support service activ. | 861 | 1 122 | 1 025 |
| Public administration and defence | 3 009 | 3 120 | 3 914 |
| Education | 1 346 | 1 730 | 2 680 |
| Human health and social work activities | 2 573 | 2 594 | 3 071 |
| Arts, entertainment and recreation | 684 | 651 | 714 |
| Other services | 275 | 331 | 342 |

Figure B5 Total ICT equipment investment



Figure B6 ICT equipment investment, by asset



Figure B7 ICT equipment investment; 2017 (% of total investment)

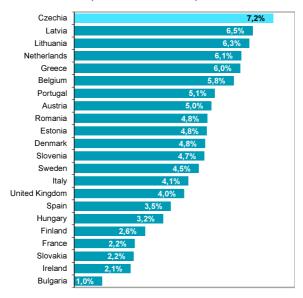


Figure B8 ICT equipment investment; 2017 (% of GDP)

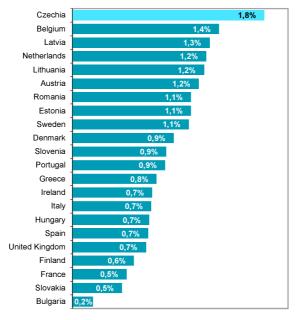


Table B3 Software investment in Czechia

CZK million

| CZIX IIIIIIIO | | | JZIV IIIIIIIIIIII |
|---|---------|---------|-------------------|
| | 2016 | 2017 | 2018 |
| Total | 104 020 | 110 243 | 122 784 |
| Own-account software | 25 592 | 26 885 | 28 252 |
| Industry (CZ-NACE Section) | | | |
| Agriculture, forestry and fishing | 285 | 360 | 403 |
| Mining and quarrying | 119 | 126 | 138 |
| Manufacturing | 13 683 | 14 691 | 15 328 |
| Electricity, gas and water supply | 2 179 | 2 482 | 2 380 |
| Construction | 1 027 | 1 087 | 1 199 |
| Wholesale and retail trade | 8 576 | 9 375 | 10 510 |
| Transportation and storage | 3 694 | 4 302 | 4 811 |
| Accommodation and food service activities | 260 | 287 | 331 |
| Information and communication | 35 473 | 38 070 | 44 864 |
| Financial and insurance activities | 21 517 | 20 622 | 21 482 |
| Real estate activities | 990 | 1 033 | 1 135 |
| Professional, scientific and technical activ. | 6 684 | 7 392 | 8 065 |
| Administrative and support service activ. | 1 475 | 1 585 | 1 933 |
| Public administration and defence | 4 216 | 4 633 | 5 152 |
| Education | 951 | 1 117 | 1 458 |
| Human health and social work activities | 1 002 | 1 027 | 1 100 |
| Arts, entertainment and recreation | 598 | 675 | 896 |
| Other services | 1 291 | 1 379 | 1 599 |

Figure B9 Software investment

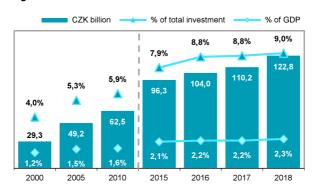


Figure B10 Software investment, by sector

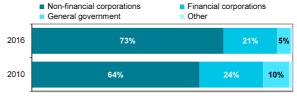


Figure B11 Software investment; 2017 (% of total investment)

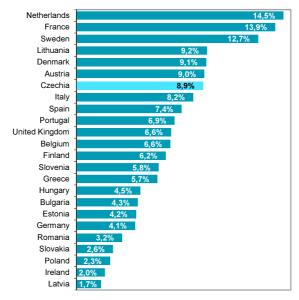


Figure B12 Software investment; 2017 (% of GDP)

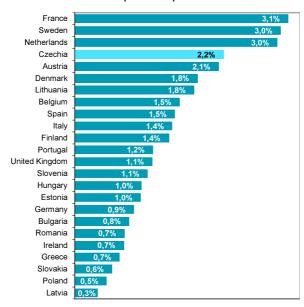


Table B4 Household consumption expenditures on ICT products in Czechia

| | | (| CZK million |
|------------------------------------|--------|--------|-------------|
| | 2016 | 2017 | 2018 |
| Total | 91 577 | 95 945 | 104 095 |
| ICT equipment | 33 925 | 36 520 | 41 149 |
| Telephone equipment, total | 4 921 | 5 355 | 5 781 |
| Computers and consumer electronics | 29 004 | 31 165 | 35 368 |
| Telecommunication (ICT) services | 57 652 | 59 425 | 62 946 |

Figure B13 Household consumption expenditures on ICT

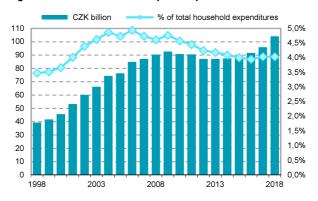


Figure B14 Household expenditures on ICT, by type of product



Figure B15 Households expenditures on ICT equipment

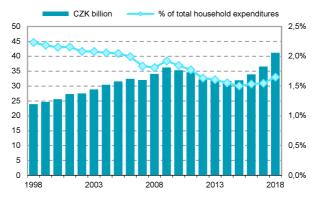


Figure B16 Household consumption expenditures on ICT; 2018 (% of total households consumption expenditures)

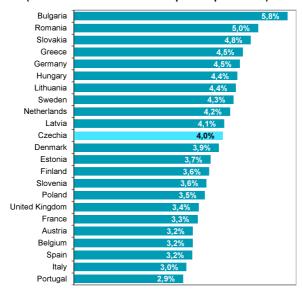


Figure B17 Household consumption expenditures on ICT, by type of product; 2018

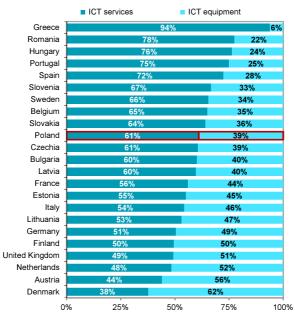


Table B5 Household consumption expenditures on telecommunication in Czechia

| CZK | million |
|-----|---------|
| | |

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

Figure B18 Household expenditures on telecommunication

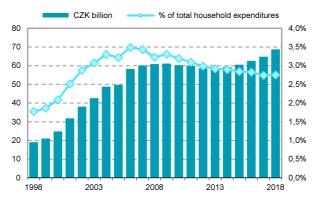


Figure B19 Household expenditures on telecommunication, by type of product

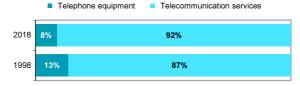


Figure B20 Household expenditures on telecommunication services

