F International trade in ICT services

Services in the field of information and communication technologies (hereinafter as the **ICT services**) are defined as services that must primarily be intended to fulfil or enable the function of information processing and communication **by electronic means**, including their record, transmission, and display (OECD, 2009).

Respective items of the ICT services are defined based on the **Extended Balance of Payment Services Classification (EBOPS 2010)** and subdivided into **two main categories** as follows:

- **Telecommunication services (code SI1/9.1)** include, first of all, transactions of Czech and foreign telecommunication operators for implemented international calls by means of fixed or mobile telephone networks. Other telecommunication services involve payments for the access to the Internet, cable television, and to other computer networks, including providing of services as e-mail, video conferences, or transmitting of audio-visual signal over the Internet, cable networks or satellites.

- **Computer services (code SI22/9.2.2)** consist mainly of consultancy services in the fields of hardware and software of computers, including maintenance and repairs of both hardware and software and services related to data processing.

- **Computer software (code SI21/9.2.1)** involves purchase and sale of tailor-made software and application (original computer software), including purchase and sale of ownership rights to such software or licence fees for the software use. Furthermore, it is also purchase and sale of standard software and applications supplied over the Internet, including purchase and sale of ownership rights to such software or licence fees for the software use. _Note 1: Computer services does not include purchase and sale of standard software packages supplied on physical media carriers (CD-ROMs, flash disks, etc.), or as a part of hardware (as Microsoft products, for instance), which are considered to be goods and are reported within the statistics on international trade in goods. Note 2: The computer software category **includes here** also **licences to reproduce and/or distribute computer software (code SH3).**_

Data on exports and imports of the ICT services come from the **Sample survey on exports and imports of services (ZO 1-04)** carried by the Czech Statistical Office (CZSO) quarterly. For more information about international trade in services statistics in the CZSO, see: https://csu.gov.cz/international-trade-in-services.

Note: The international trade in ICT services in the Czech Republic is dominated **by transactions of foreign-controlled enterprises**, units of multinationals enterprise groups.

Data on international trade in ICT services for the Czech Republic for 2020 are preliminary.

The **Eurostat Balance of Payments Database** was used as a data source for the **international comparison**. Data for international comparisons refer **to the reported or nearest available year**.

In the international comparison data for computer software do not include data for Licenses for the distribution or distribution of computer software (EBOPS 2010 code SH3) as for most countries these data are not available separately in the Eurostat database.

For further information on trade in ICT services, see:
https://csu.gov.cz/international-trade-in-ict-services.

F International trade in ICT services

Table F1 ICT services exports from Czechia

CZK million

	2021	2022	2023
Total	**130 626**	**150 482**	**147 813**
Telecommunication services	21 143	24 000	25 119
Computer services and software	109 483	126 481	122 695
by selected countries			
EU27, total	64 863	76 364	73 447
Germany	19 262	24 446	24 933
France	3 510	4 025	6 040
Netherland	3 966	4 765	5 794
others	38 126	43 128	36 680
Other countries, total	65 763	74 118	74 366
United states	31 597	37 295	32 955
United Kingdom	9 575	10 738	11 387
Switzerland	4 611	6 841	8 598
others	19 980	19 244	21 426

Figure F1 ICT services exports

Legend: CZK billion — % of total services exports

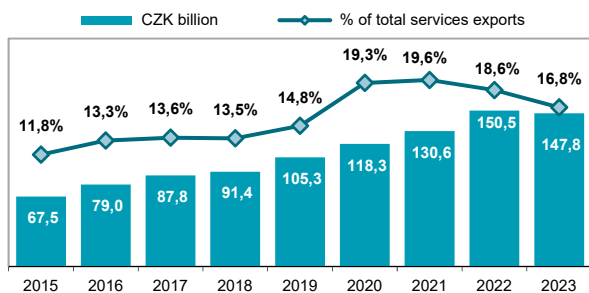|	2015	2016	2017	2018	2019	2020	2021	2022	2023
CZK billion	67,5	79,0	87,8	91,4	105,3	118,3	130,6	150,5	147,8
% of total services exports	11,8%	13,3%	13,6%	13,5%	14,8%	19,3%	19,6%	18,6%	16,8%

Figure F2 ICT services exports, by type of ICT services

Legend: Telecomm. services — Computer services — Computer sofware

	Telecomm. services	Computer services	Computer sofware
2023	17%	47%	36%
2015	17%	58%	25%
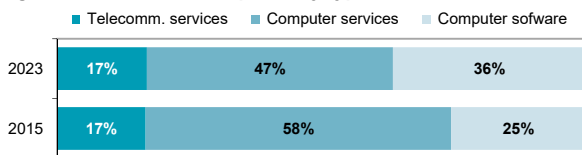
Figure F3 ICT services exports, by countries
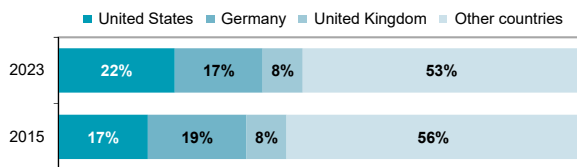
Legend: United States — Germany — United Kingdom — Other countries

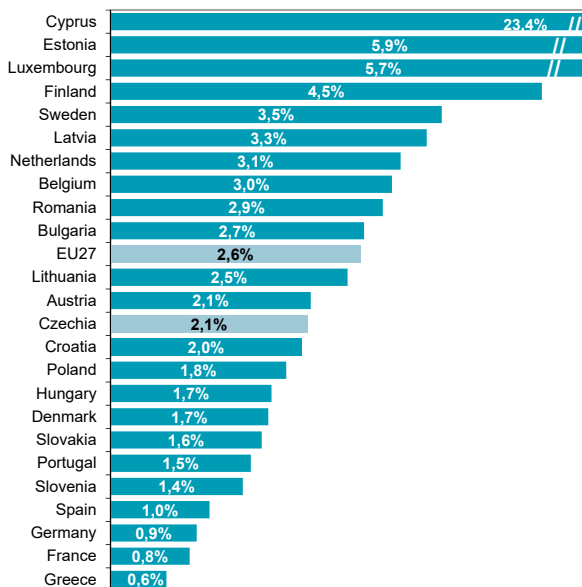|	United States	Germany	United Kingdom	Other countries
2023	22%	17%	8%	53%
2015	17%	19%	8%	56%

Source: CZSO, Survey on exports and imports of services

F International trade in ICT services

Figure F4 ICT services exports; 2022
(% of total services exports)

Country	%
Finland	36,5%
Cyprus	31,6%
Romania	21,9%
Sweden	21,1%
Estonia	19,9%
Bulgaria	18,8%
Czechia	18,6%
Latvia	16,6%
EU27	16,0%
Slovakia	14,6%
Poland	13,5%
Belgium	12,8%
Austria	11,9%
Netherlands	10,8%
Hungary	9,8%
Lithuania	9,7%
Spain	9,1%
Germany	8,8%
Portugal	8,1%
Italy	7,6%
Slovenia	7,1%
Croatia	6,9%
France	6,8%
Denmark	5,1%
Luxembourg	3,2%
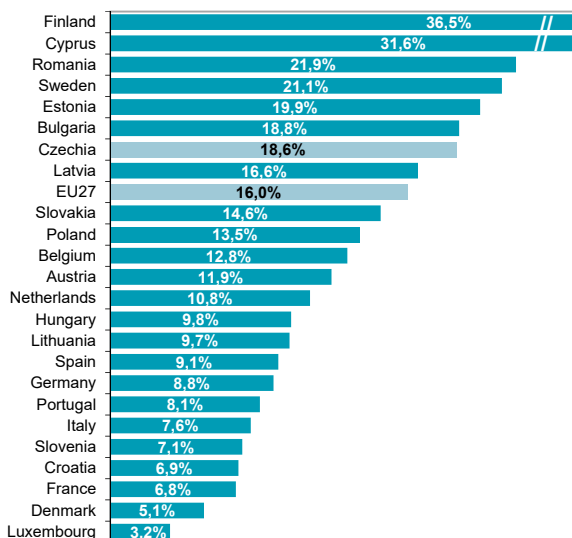
Figure F5 ICT services exports; 2022 (% of GDP)

Country	%
Cyprus	23,4%
Estonia	5,9%
Luxembourg	5,7%
Finland	4,5%
Sweden	3,5%
Latvia	3,3%
Netherlands	3,1%
Belgium	3,0%
Romania	2,9%
Bulgaria	2,7%
EU27	2,6%
Lithuania	2,5%
Austria	2,1%
Czechia	2,1%
Croatia	2,0%
Poland	1,8%
Hungary	1,7%
Denmark	1,7%
Slovakia	1,6%
Portugal	1,5%
Slovenia	1,4%
Spain	1,0%
Germany	0,9%
France	0,8%
Greece	0,6%

Source: CZSO calculations based on Eurostat

F International trade in ICT services

Table F2 ICT services imports to Czechia

CZK million

	2021	2022	2023
Total	**69 512**	**82 911**	**89 716**
Telecommunication services	19 537	20 506	22 337
Computer services and software	49 976	62 405	67 380
by selected countries			
EU27, total	41 831	54 744	58 916
Germany	13 466	16 217	16 614
Ireland	7 837	11 737	12 454
Netherland	3 860	4 585	7 584
others	16 668	22 205	22 265
Other countries, total	27 681	28 167	30 800
United Kingdom	7 605	6 916	7 145
United states	3 192	4 168	4 513
Switzerland	3 115	3 226	3 053
others	13 769	13 858	16 089

Figure F6 ICT services imports

Legend: CZK billion — % of total services imports

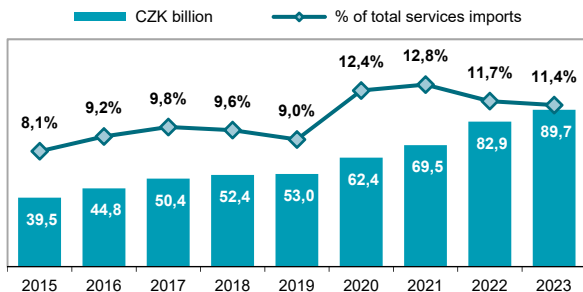| Year	CZK billion	% of total services imports
2015	39,5	8,1%
2016	44,8	9,2%
2017	50,4	9,8%
2018	52,4	9,6%
2019	53,0	9,0%
2020	62,4	12,4%
2021	69,5	12,8%
2022	82,9	11,7%
2023	89,7	11,4%

Figure F7 ICT services imports, by type of ICT services

Legend: Telecomm. services — Computer services — Computer sofware

Year	Telecomm. services	Computer services	Computer sofware
2023	25%	52%	23%
2015	30%	53%	17%
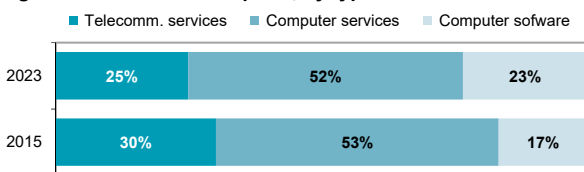
Figure F8 ICT services imports, by countries
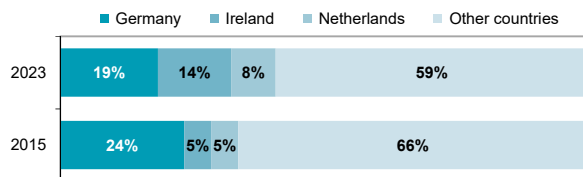
Legend: Germany — Ireland — Netherlands — Other countries

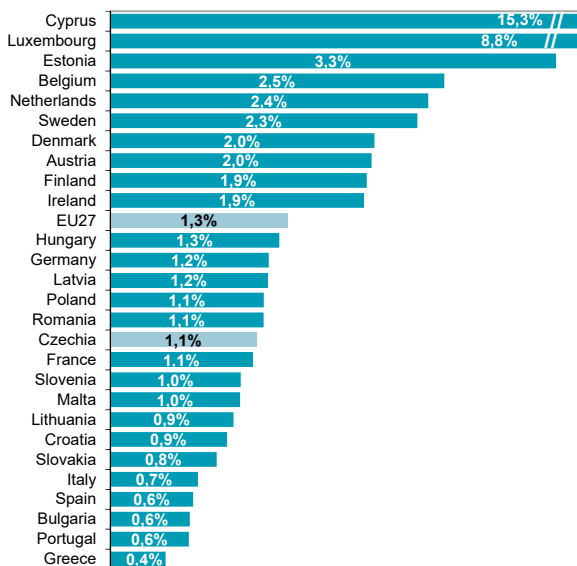| Year	Germany	Ireland	Netherlands	Other countries
2023	19%	14%	8%	59%
2015	24%	5%	5%	66%

Source: CZSO, Survey on exports and imports of services

F International trade in ICT services

Figure F9 ICT services imports, 2022
(% of total services imports)

Country	Value
Cyprus	28,5%
Estonia	14,5%
Poland	14,0%
Romania	13,5%
Sweden	13,4%
Finland	13,0%
Austria	12,4%
Czechia	11,1%
Germany	10,7%
Belgium	10,7%
Spain	10,3%
France	10,3%
Croatia	10,2%
Hungary	10,0%
Italy	9,8%
Netherlands	9,3%
EU27	9,1%
Latvia	8,7%
Denmark	7,9%
Slovakia	7,5%
Bulgaria	7,3%
Slovenia	7,3%
Portugal	6,3%
Luxembourg	6,2%
Lithuania	5,4%
Greece	3,0%
Ireland	2,9%
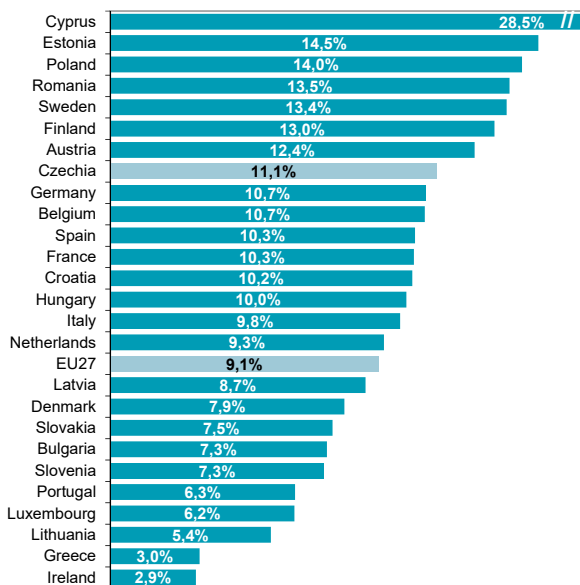
Figure F10 ICT services imports, 2022 (% of GDP)

Country	Value
Cyprus	15,3%
Luxembourg	8,8%
Estonia	3,3%
Belgium	2,5%
Netherlands	2,4%
Sweden	2,3%
Denmark	2,0%
Austria	2,0%
Finland	1,9%
Ireland	1,9%
EU27	1,3%
Hungary	1,3%
Germany	1,2%
Latvia	1,2%
Poland	1,1%
Romania	1,1%
Czechia	1,1%
France	1,1%
Slovenia	1,0%
Malta	1,0%
Lithuania	0,9%
Croatia	0,9%
Slovakia	0,8%
Italy	0,7%
Spain	0,6%
Bulgaria	0,6%
Portugal	0,6%
Greece	0,4%

Source: CZSO calculations based on Eurostat

F International trade in ICT services

Tab F3 Computer services and software exports from Czechia

CZK million

	2021	2022	2023
Total	**109 483**	**126 481**	**122 695**
Computer services	60 954	72 677	68 791
Computer software	48 529	53 804	53 904
by selected countries			
EU27, total	56 578	65 637	60 964
Germany	17 978	23 039	23 652
France	2 835	3 452	5 611
Netherland	3 252	4 035	4 935
others	32 513	35 112	26 766
Other countries, total	52 905	60 844	61 731
United states	29 177	35 082	31 075
United Kingdom	7 034	7 920	8 578
Switzerland	4 484	6 564	8 360
others	12 210	11 278	13 718

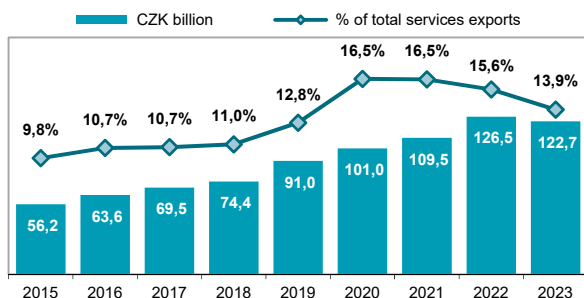## Figure F11 Computer services and software exports

Figure F12 Computer services and software exports, by type of services
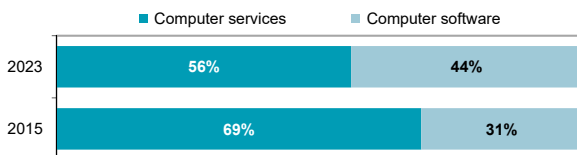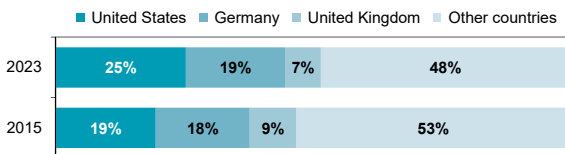

Figure F13 Computer services and software exports, by countries

Source: CZSO, Survey on exports and imports of services

F International trade in ICT services

Tab F4 Computer services and software imports to Czechia

CZK million

	2021	2022	2023
Total	**49 976**	**62 405**	**67 380**
Computer services	33 526	41 682	46 338
Computer software	16 450	20 723	21 041
by selected countries			
EU27, total	34 397	45 236	49 438
Germany	12 089	14 983	15 523
Ireland	7 134	10 859	11 411
Netherland	3 587	4 223	7 277
others	11 587	15 171	15 227
Other countries, total	15 578	17 169	17 942
United Kingdom	3 346	4 121	4 275
United states	2 600	3 303	3 674
Switzerland	2 746	3 163	1 694
others	6 886	6 583	8 299

Figure F14 Computer services and software imports

CZK billion — % of total services imports

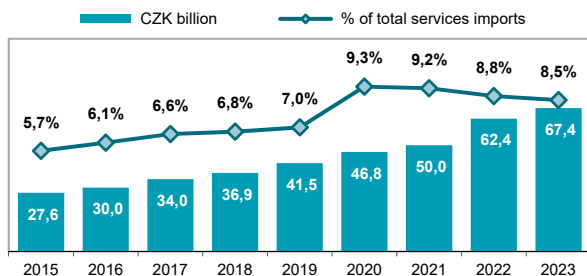| 2015	2016	2017	2018	2019	2020	2021	2022	2023
5,7%	6,1%	6,6%	6,8%	7,0%	9,3%	9,2%	8,8%	8,5%
27,6	30,0	34,0	36,9	41,5	46,8	50,0	62,4	67,4

Figure F15 Computer services and software imports, by type of services

■ Computer services ■ Computer software
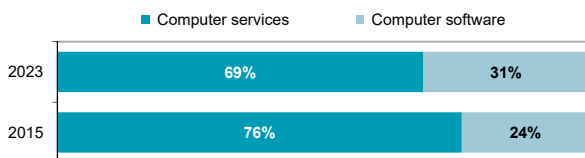
2023	69%	31%
2015	76%	24%

Figure F16 Computer services and software imports, by countries
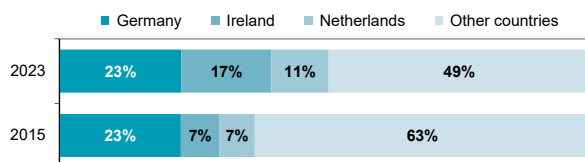
■ Germany ■ Ireland ■ Netherlands ■ Other countries

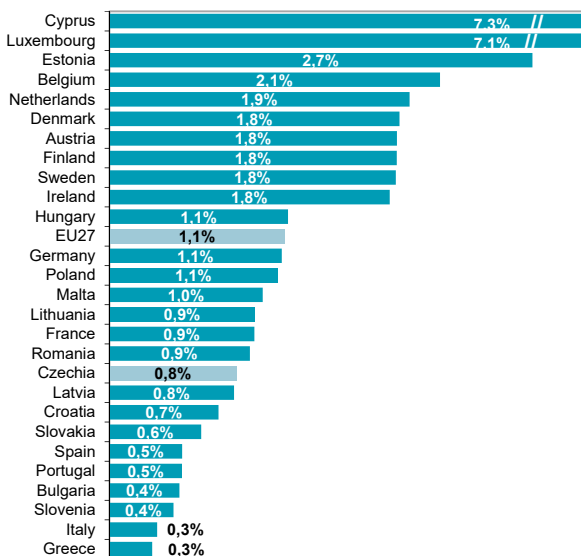|				
2023	23%	17%	11%	49%
2015	23%	7%	7%	63%

Source: CZSO, Survey on exports and imports of services

F International trade in ICT services

Figure F17 Computer services and software exports; 2022 (% of GDP)

Country	%
Cyprus	22.9%
Estonia	5.2%
Finland	4.5%
Sweden	3.0%
Luxembourg	2.9%
Netherlands	2.6%
Bulgaria	2.5%
Romania	2.5%
Belgium	2.4%
EU27	2.4%
Latvia	2.4%
Lithuania	2.3%
Austria	1.9%
Poland	1.8%
Czechia	1.8%
Croatia	1.7%
Hungary	1.6%
Denmark	1.6%
Portugal	1.3%
Slovakia	1.3%
Spain	0.9%
Germany	0.8%
Slovenia	0.8%
France	0.7%
Greece	0.3%
Italy	0.3%
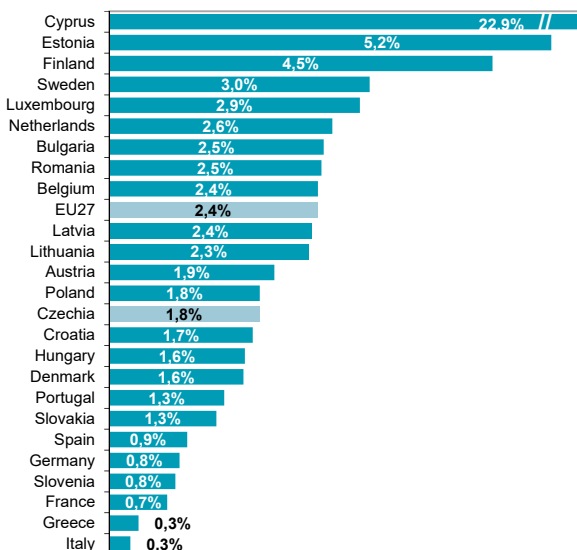
Figure F18 Computer services and software imports; 2022 (% of GDP)

Country	%
Cyprus	7.3%
Luxembourg	7.1%
Estonia	2.7%
Belgium	2.1%
Netherlands	1.9%
Denmark	1.8%
Austria	1.8%
Finland	1.8%
Sweden	1.8%
Ireland	1.8%
Hungary	1.1%
EU27	1.1%
Germany	1.1%
Poland	1.1%
Malta	1.0%
Lithuania	0.9%
France	0.9%
Romania	0.9%
Czechia	0.8%
Latvia	0.8%
Croatia	0.7%
Slovakia	0.6%
Spain	0.5%
Portugal	0.5%
Bulgaria	0.4%
Slovenia	0.4%
Italy	0.3%
Greece	0.3%

Source: CZSO calculations based on Eurostat