

D ICT external trade

ICT external trade **contains** trade in both ICT goods and ICT services. Goods and services in the field of information and communication technology (hereinafter as the ICT goods and services or ICT products) are **defined** as goods or services, which core function is to implement information processing and communication by electronic means, including transmission and display (OECD, 2009).

External trade in ICT goods

The **list of ICT goods** that is used for the external trade statistics is based on the Harmonised System Nomenclature (HS Nomenclature 2007), a classification of goods used for the international trade. List of ICT goods defined at 6-digit level of HS2007 was further grouped into the five main categories as follows:

- Computer equipment and peripherals;
- Communication equipment;
- Consumer electronics;
- Electronic components;
- Miscellaneous ICT components and accessories (ICT parts n.e.s.)

The **External Trade Statistics Database** of the Czech Statistical Office (CZSO) was used as a data source for national data. For more information see: <http://apl.czso.cz/pll/stazo/STAZO.STAZO?jazyk=EN>

The **UNCTAD database** and **The UN Comtrade database** was used as a data source for the international comparison:

<http://unctad.org/en/Pages/Statistics.aspx>; <http://comtrade.un.org/db/>

External trade in ICT services

Data on exports and imports of the **ICT services** come from the CZSO direct survey at respondents on exports and imports of services.

Respective items of the ICT services are then defined according to the **International Classification of Extended Balance of Payment Services** (EBOPS 2010). The ICT services are subdivided into three categories as follows:

- Telecommunications services (code SI1);
- Other computer services (code SI22); and
- Computer software (codes SI21 and SH3).

Telecommunication services 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.

Computer services 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 involves purchase and sale of tailor-made software and applications (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. The computer software category here includes also **licences to reproduce and/or distribute computer software (code SH3)**

2018 data are preliminary.

Data for **international comparisons** come from **Eurostat** data sources.

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

For further information on ICT external trade see (only in Czech):

<https://www.czso.cz/csu/czso/zahranicni-obchod-s-ict-zbozim-a-sluzbami>

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Table D1 ICT goods exports from Czechia

CZK million

	2016	2017	2018
Total	506 018	564 570	665 646
Computer equipment and peripherals	236 892	283 506	323 092
Communication equipment	97 651	138 167	194 288
Consumer electronics	72 922	74 650	77 374
Electronic components	45 144	33 101	34 591
ICT parts n.e.s.	53 409	35 146	36 301

Figure D1 ICT goods exports

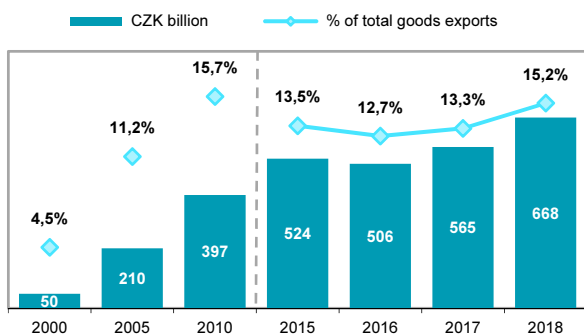


Figure D2 ICT goods exports, by commodities

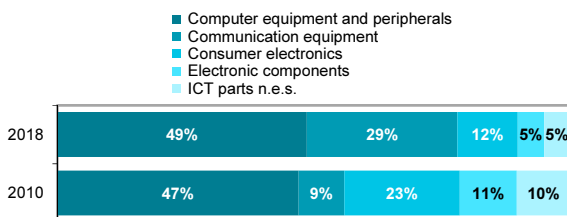
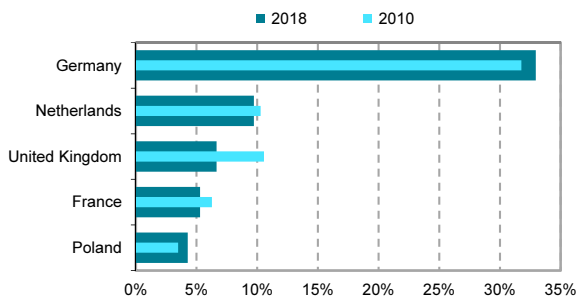


Figure D3 ICT goods exports, by countries



Source: CZSO, External Trade Statistics Database

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Figure D4 ICT goods exports; 2018
(% of total goods exports)

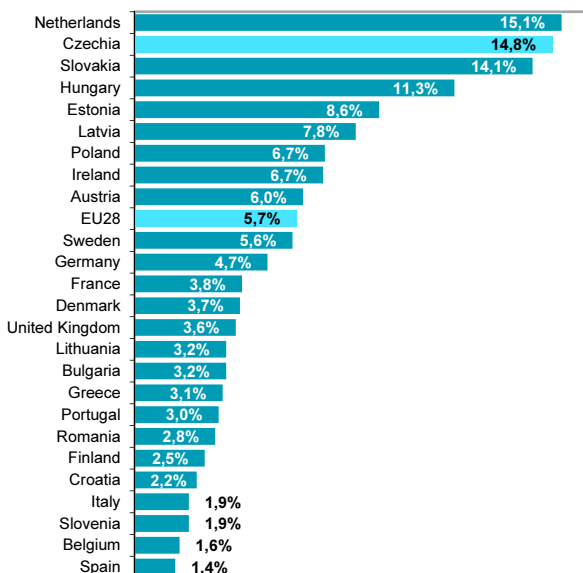
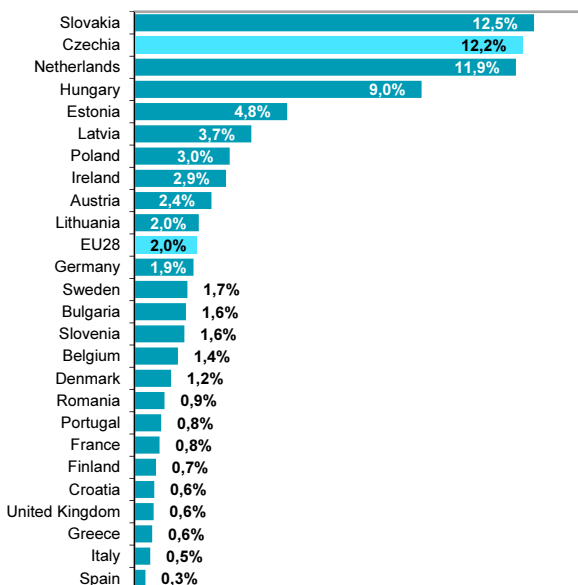


Figure D5 ICT goods exports; 2018 (% of GDP)



Source: CZSO calculations based on Eurostat

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Table D2 ICT goods imports to Czechia

CZK million

	2016	2017	2018
Total	496 943	578 294	657 087
Computer equipment and peripherals	170 630	196 963	206 974
Communication equipment	103 219	141 049	209 053
Consumer electronics	44 109	43 031	45 400
Electronic components	84 734	101 739	105 611
ICT parts n.e.s.	94 251	95 512	90 050

Figure D6 ICT goods imports

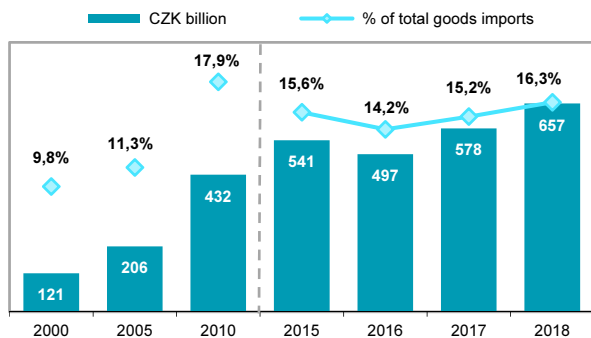


Figure D7 ICT goods imports, by commodities

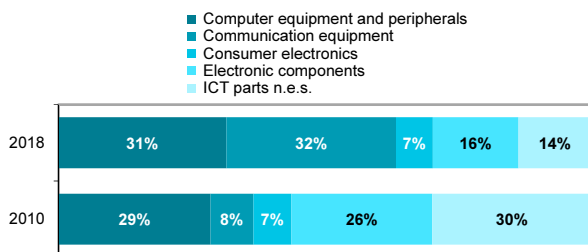
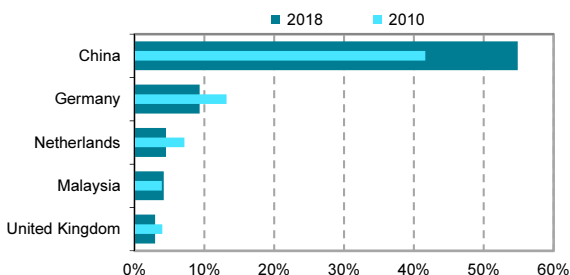


Figure D8 ICT goods imports, by countries



Source: CZSO, External Trade Statistics Database

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Figure D9 ICT goods imports; 2018 (% of total goods imports)

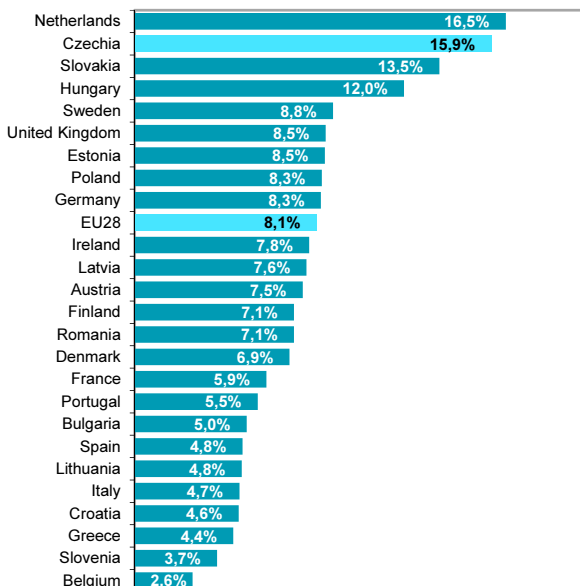
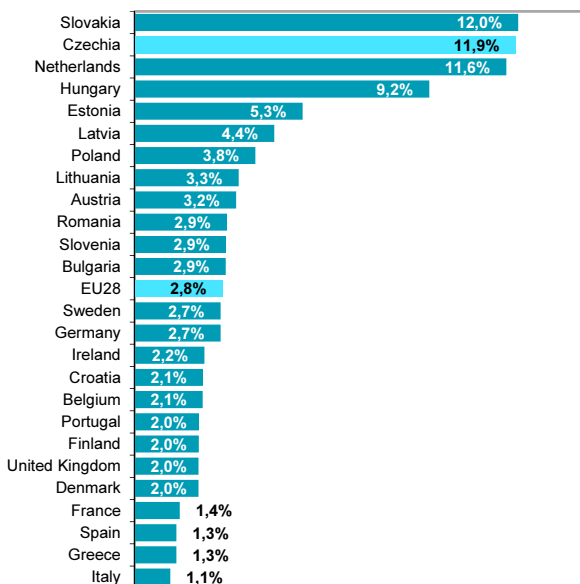


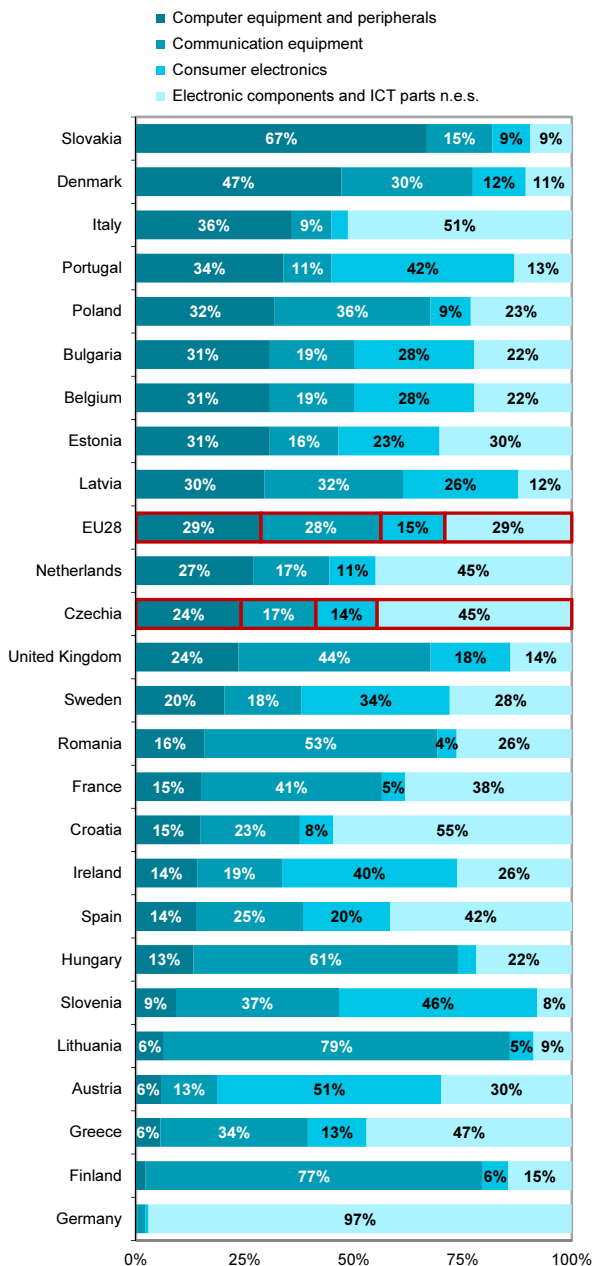
Figure D10 ICT goods imports; 2018 (% of GDP)



Source: CZSO calculations based on Eurostat

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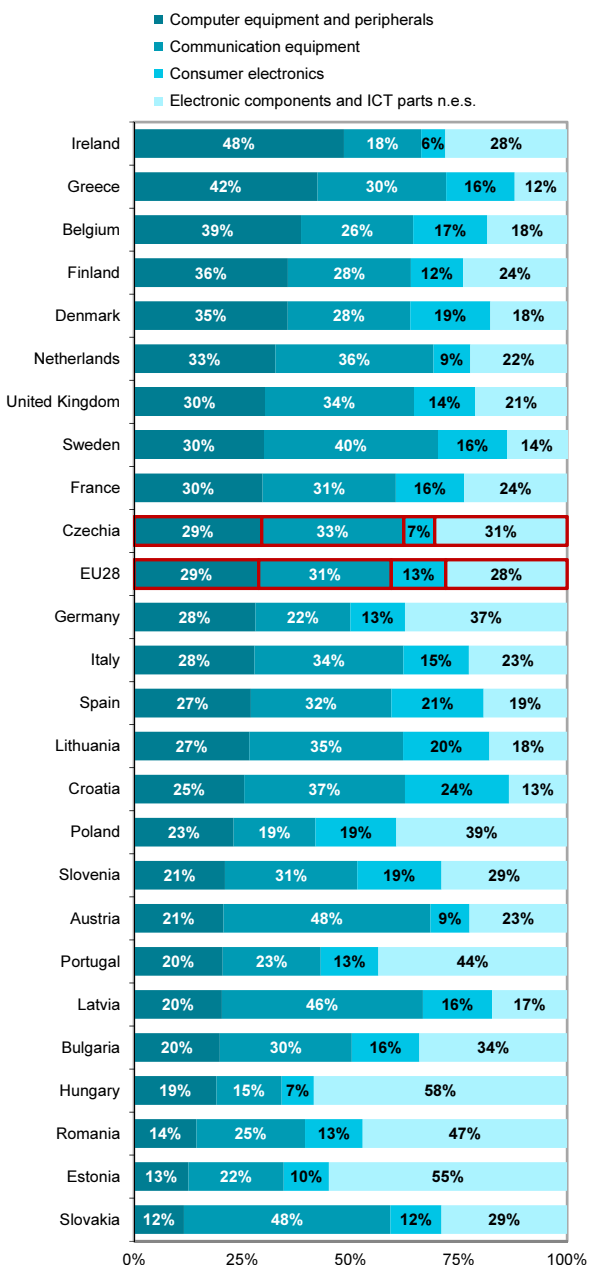
Figure D11 ICT goods exports, by commodities; 2018



Source: CZSO calculations based on Eurostat

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Figure D12 ICT goods imports, by commodities; 2018



Source: CZSO calculations based on Eurostat

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Table D3 Computer equipment exports from Czechia

CZK million

	2016	2017	2018
Total	236 892	283 506	324 867
Portable computers	56 158	64 699	66 589
Other computers	80 871	121 211	162 949
Computer peripherals, total	99 862	97 596	95 329
Storage units	56 238	49 816	48 255
Sound, video, network and similar cards	9 930	12 097	13 751
Monitors used with computers	16 286	19 748	19 324
Printers, copying or faxing machines	7 813	6 388	5 589
Other input or output peripherals*	9 596	9 546	8 409

* Keyboards; joysticks, computer mice, scanners or optical readers

Figure D13 Computer equipment exports

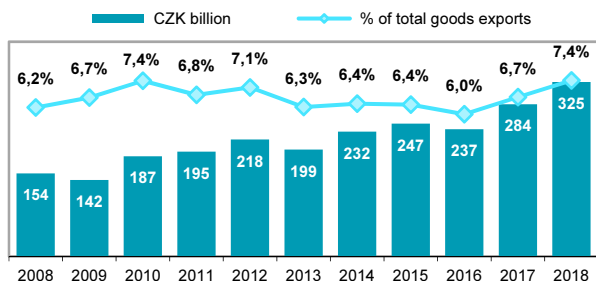


Figure D14 Computer equipment exports, by commodities

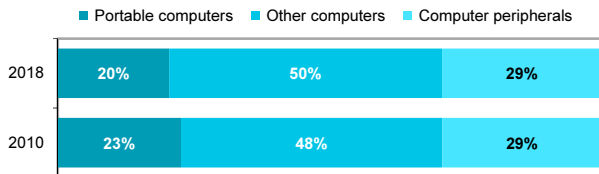
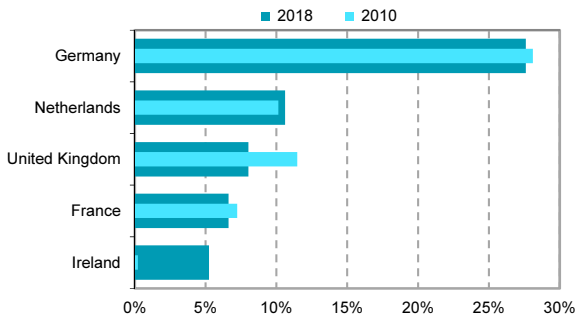


Figure D15 Computer equipment exports, by countries



Source: CZSO, External Trade Statistics Database

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Table D4 Computer equipment imports to Czechia

CZK million

	2016	2017	2018
Total	170 630	196 963	206 974
Portable computers	60 020	71 830	76 491
Other computers	19 599	20 325	22 833
Computer peripherals, total	91 011	104 809	107 650
Storage units	50 022	57 324	58 638
Sound, video, network and similar cards	8 565	11 529	12 933
Monitors used with computers	15 885	19 875	19 511
Printers, copying or faxing machines	7 862	7 150	6 798
Other input or output peripherals*	8 677	8 931	9 770

* Keyboards; joysticks, computer mice, scanners or optical readers

Figure D16 Computer equipment imports

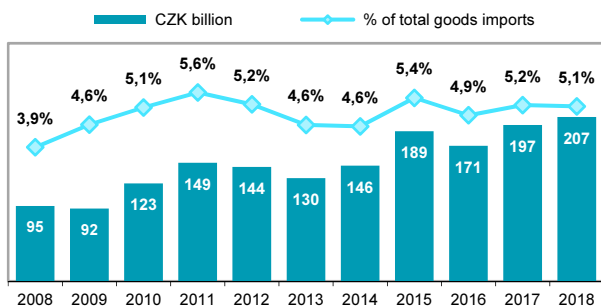


Figure D17 Computer equipment imports, by commodities

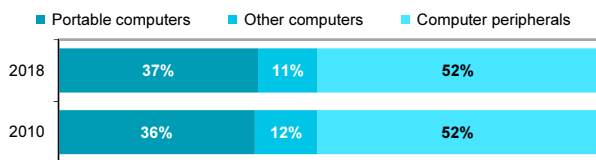
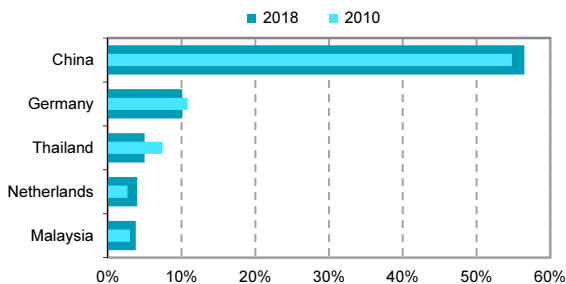


Figure D18 Computer equipment imports, by countries



Source: CZSO, External Trade Statistics Database

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Table D5 Communication equipment exports from Czechia

CZK million

	2016	2017	2018
Total	97 651	138 167	196 020
Mobile phones	62 246	87 374	141 592
Other communication equipment	35 405	50 794	54 428

Figure D19 Communication equipment exports

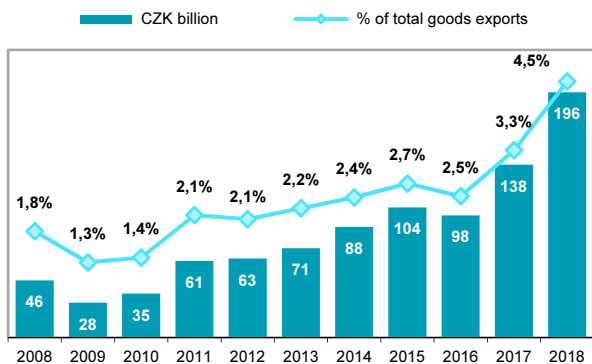


Figure D20 Communication equipment exports by commodities

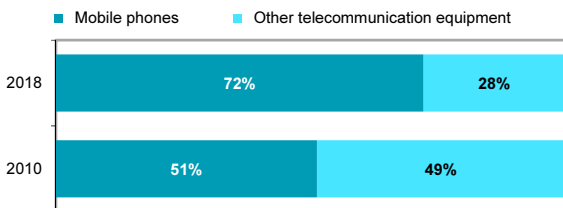
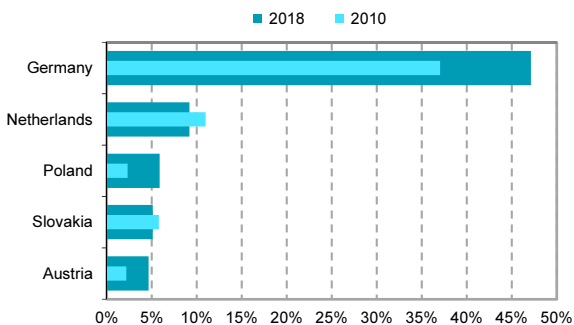


Figure D21 Communication equipment exports, by countries



Source: CZSO, External Trade Statistics Database

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Table D6 Communication equipment imports to Czechia

CZK million

	2016	2017	2018
Total	103 219	141 049	209 053
Mobile phones	68 538	98 042	156 153
Other communication equipment	34 681	43 006	52 900

Figure D22 Communication equipment imports

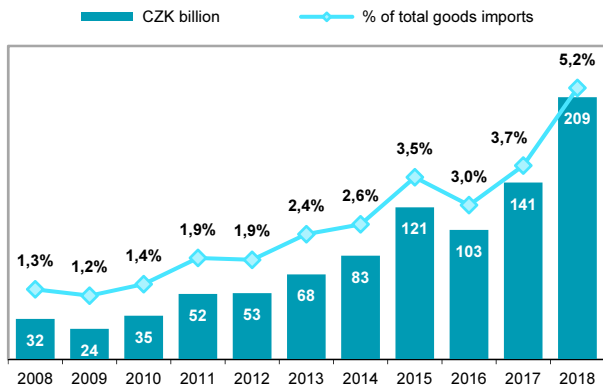


Figure D23 Communication equipment imports by commodities

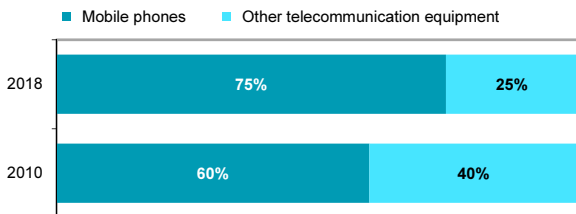
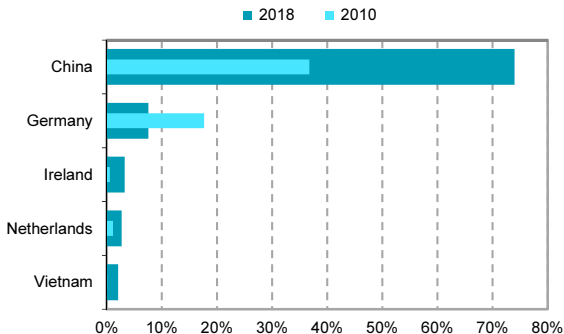


Figure D24 Communication equipment imports by countries



Source: CZSO, External Trade Statistics Database

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Table D7 Consumer electronics exports from Czechia

CZK million

	2016	2017	2018
Total	72 922	74 650	78 676
Radio and TV receivers	39 009	34 821	35 627
Sound and image recording and reproducing apparatuses	15 119	15 264	15 935
Consumer electronics accessories*	18 793	24 565	27 114

* Monitors and projectors; Microphones and stands there for; Loudspeakers; Headphones, earphones and combined microphone/speaker sets; Audio-frequency electric amplifiers; Electric sound amplifier sets; Non-recorded media

Figure D25 Consumer electronics exports

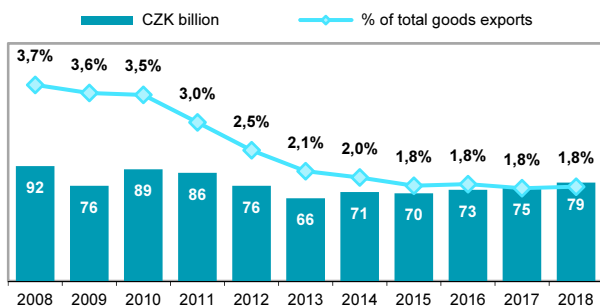


Figure D26 Consumer electronics exports, by commodities

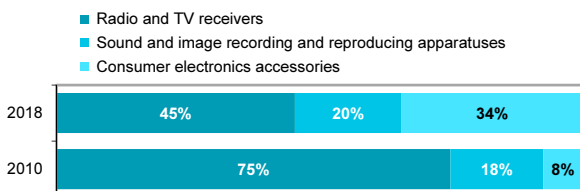
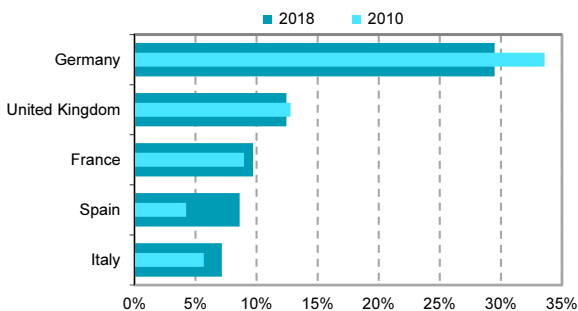


Figure D27 Consumer electronics exports, by countries



Source: CZSO, External Trade Statistics Database

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Table D8 Consumer electronics imports to Czechia

CZK million

	2016	2017	2018
Total	44 109	43 031	45 400
Radio and TV receivers	15 088	15 213	14 914
Sound and image recording and reproducing apparatuses	14 446	14 457	15 564
Consumer electronics accessories*	14 574	13 362	14 922

* Monitors and projectors; Microphones and stands there for; Loudspeakers; Headphones, earphones and combined microphone/speaker sets; Audio-frequency electric amplifiers; Electric sound amplifier sets; Non-recorded media

Figure D28 Consumer electronics imports

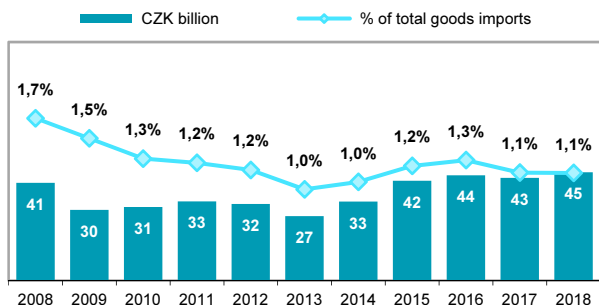


Figure D29 Consumer electronics imports, by commodities

- Radio and TV receivers
- Sound and image recording and reproducing apparatuses
- Consumer electronics accessories

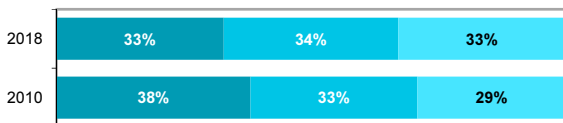
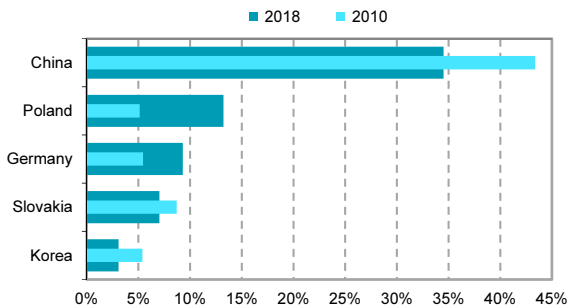


Figure D30 Consumer electronics imports, by countries



Source: CZSO, External Trade Statistics Database

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Table D9 Electronic components exports from Czechia

	CZK million		
	2016	2017	2018
Total	45 144	33 101	34 371
Electronic integrated circuits	33 789	21 422	21 718
Printed circuits	4 874	4 555	4 782
Other electronic components	6 481	7 124	7 870

Figure D31 Electronic components exports

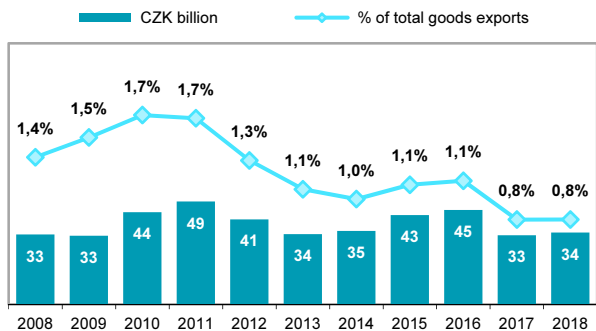


Figure D32 Electronic components exports, by commodities

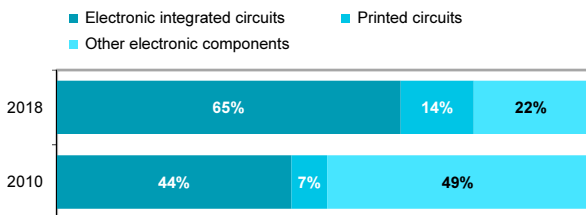
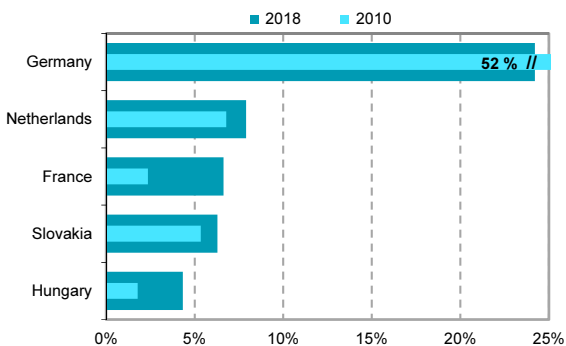


Figure D33 Electronic components exports, by countries



Source: CZSO, External Trade Statistics Database

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Table D10 Electronic components imports to the Czechia

	CZK million		
	2016	2017	2018
Total	84 734	101 739	105 611
Electronic integrated circuits	63 101	77 417	81 468
Printed circuits	11 570	13 352	12 460
Other electronic components	10 064	10 969	11 683

Figure D34 Electronic components imports

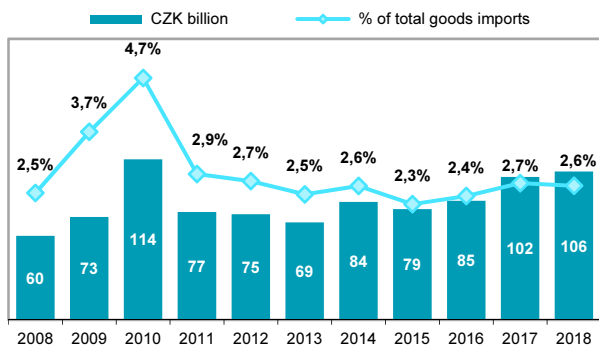


Figure D35 Electronic components imports, by commodities

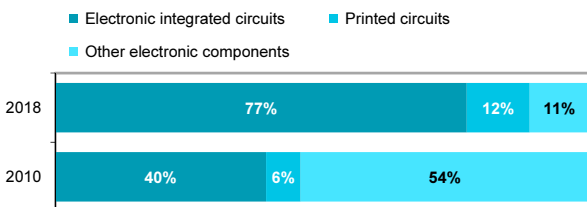
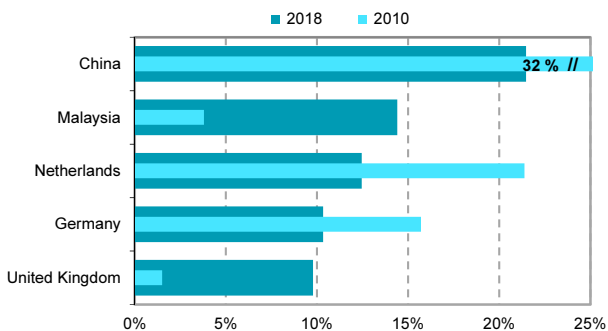


Figure D36 Electronic components imports, by countries



Source: CZSO, External Trade Statistics Database

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Table D11 Exports of ICT parts n.e.s. from Czechia

CZK million

	2016	2017	2018
Total	53 409	35 146	33 994
Parts and accessories n.e.s. of			
computers	29 212	17 458	16 574
telecommunication equipment	19 520	11 638	10 752
consumer electronics	4 677	6 050	6 668

Figure D37 Exports of ICT parts and accessories n.e.s.

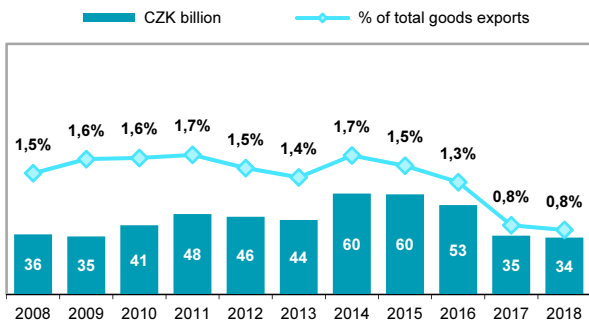


Figure D38 Exports of ICT parts n.e.s., by commodities

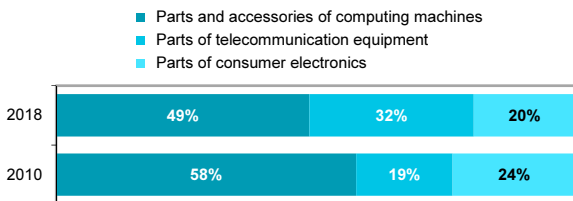
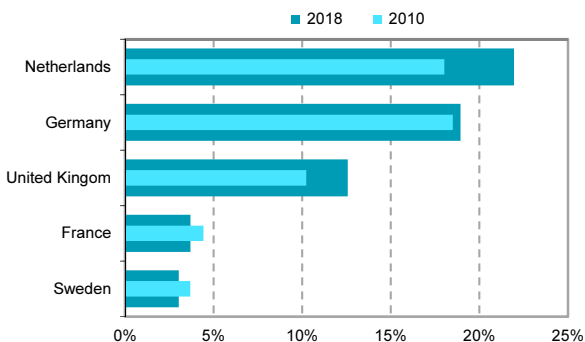


Figure D39 Exports of ICT parts n.e.s., by countries



Source: CZSO, External Trade Statistics Database

D ICT external trade

Table D12 Imports of ICT parts n.e.s. to Czechia

CZK million

	2016	2017	2018
Total	94 251	95 512	90 050
Parts and accessories n.e.s. of computers	54 163	59 231	55 585
telecommunication equipment	14 324	7 792	7 295
consumer electronics	25 765	28 489	27 170

Figure D40 Imports of ICT parts and accessories n.e.s.

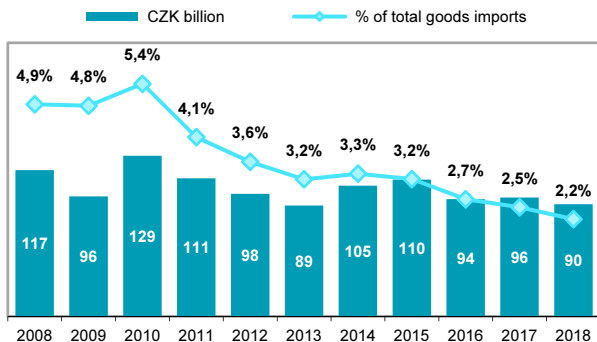


Figure D41 Imports of ICT parts n.e.s., by commodities

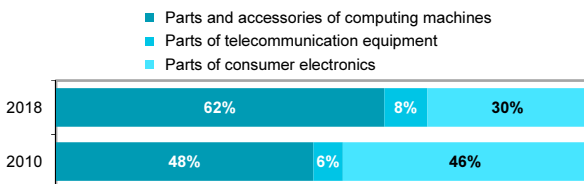
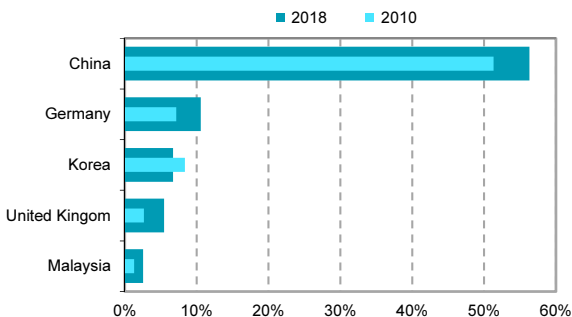


Figure D42 Imports of ICT parts n.e.s., by countries



Source: CZSO, External Trade Statistics Database

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Table D13 ICT services exports from Czechia

CZK million

	2016	2017	2018
Total	79 287	88 070	91 655
Telecommunication services	15 420	18 290	17 082
Computer services	43 899	47 827	46 409
Computer software	19 968	21 953	28 164
by selected countries			
EU28, total	49 812	53 823	55 434
of which to Germany	15 185	16 830	15 484
Other countries, total	29 475	34 247	36 221
of which to the United States	14 828	15 628	17 668

Figure D43 ICT services exports

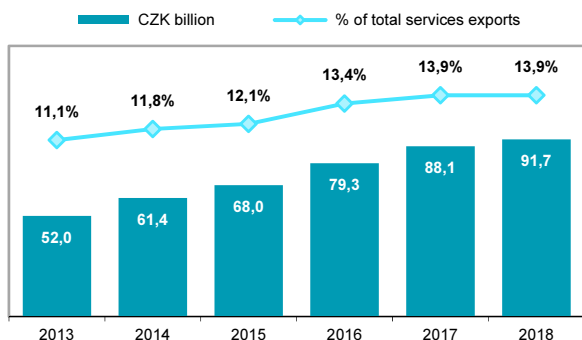


Figure D44 ICT services exports, by type of services

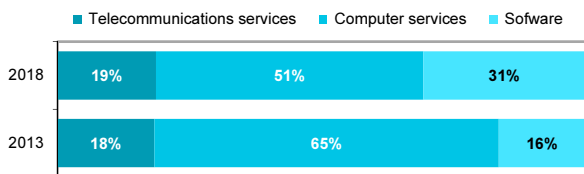
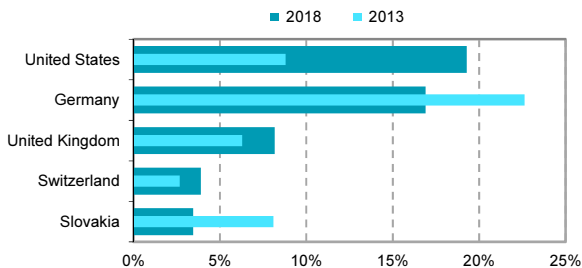


Figure D45 ICT services exports, by countries



Source: CZSO, Survey on exports and imports of services

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Figure D46 ICT services exports; 2017
(% of total services exports)

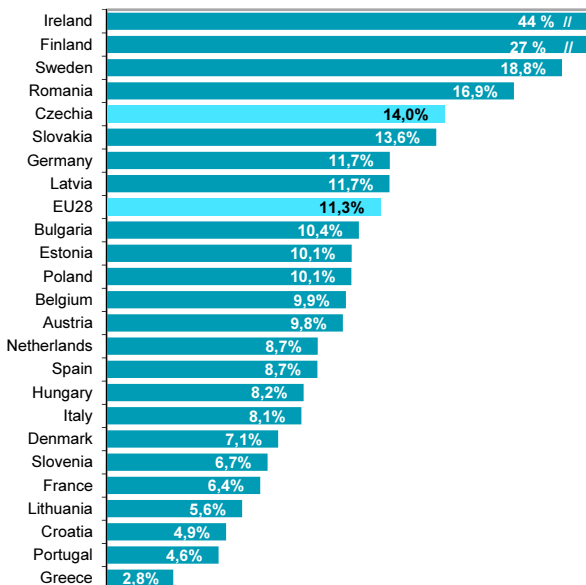
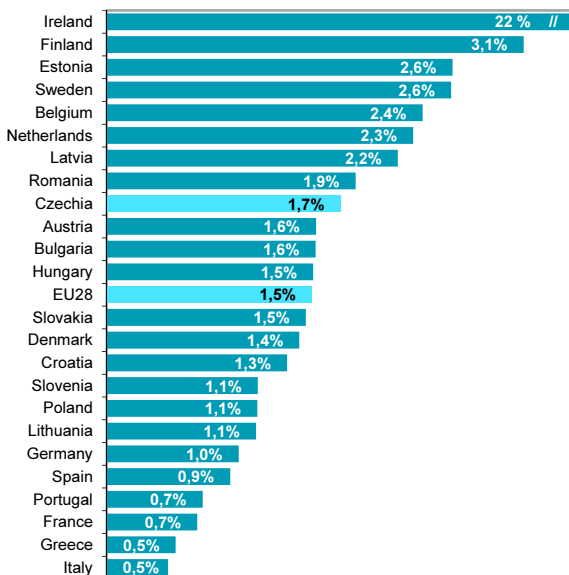


Figure D47 ICT services exports; 2017 (% of GDP)



Source: CZSO calculations based on Eurostat

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Table D14 ICT services imports to Czechia

CZK million

	2016	2017	2018
Total	45 268	50 899	51 975
Telecommunication services	14 804	16 433	15 575
Computer services	22 606	25 414	26 913
Computer software	7 859	9 052	9 487
by selected countries			
EU28, total	31 023	33 846	36 656
of which from Germany	12 137	13 094	11 515
Other countries, total	14 246	17 053	15 319
of which from the United States	3 765	3 161	3 131

Figure D48 ICT services imports

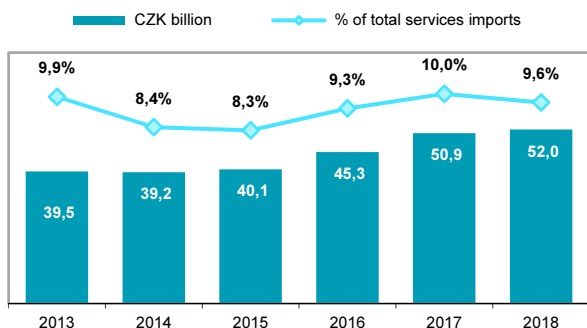


Figure D49 ICT services imports, by type of service

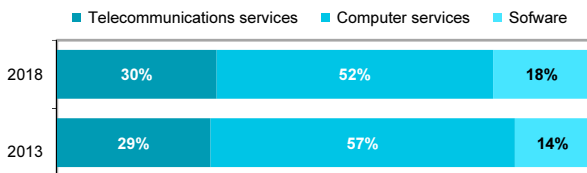
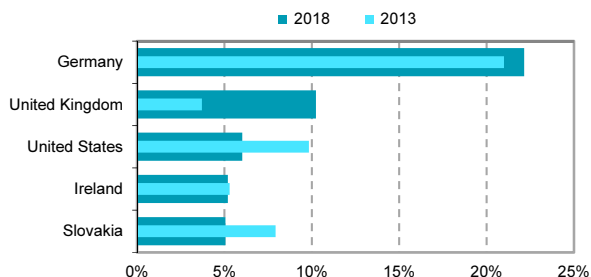


Figure D50 ICT services imports, by countries



Source: CZSO, Survey on exports and imports of services

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Figure D51 ICT services imports; 2017
(% of total services imports)

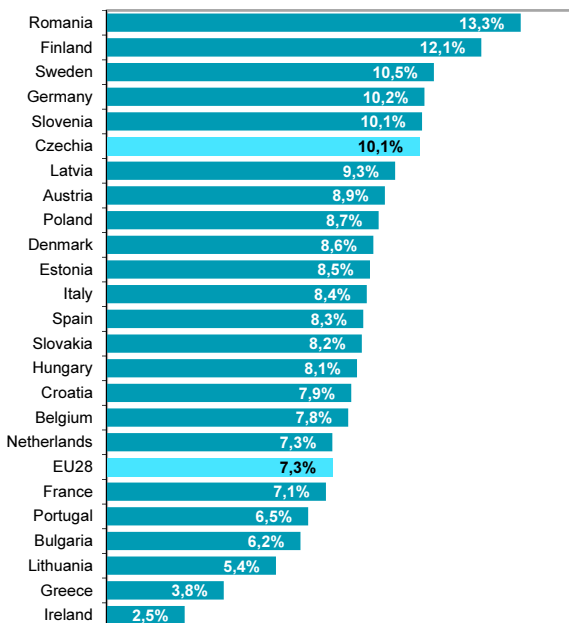
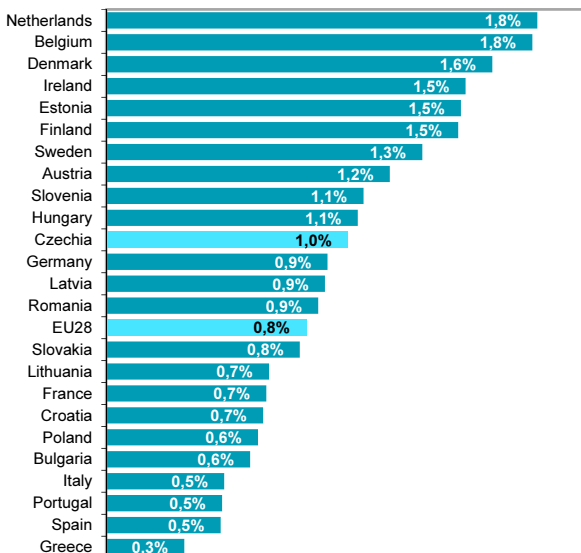


Figure D52 ICT services imports; 2017 (% of GDP)



Source: CZSO calculations based on Eurostat

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Table D15 Computer services and software exports from Czechia

	CZK million		
	2016	2017	2018
Total	63 867	69 780	74 573
Computer services	43 899	47 827	46 409
Computer software	19 968	21 953	28 164
by selected countries			
EU28, total	41 536	44 253	46 443
of which to Germany	11 818	13 325	13 410
Other countries, total	22 331	25 527	28 130
of which to the United States	13 606	14 920	16 079

Figure D53 Computer services and software exports

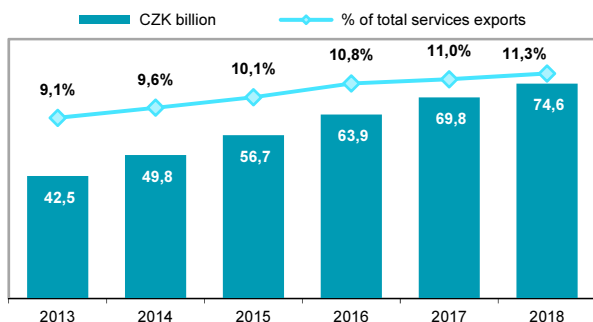


Fig. D54 Computer services and SW exports by type of service

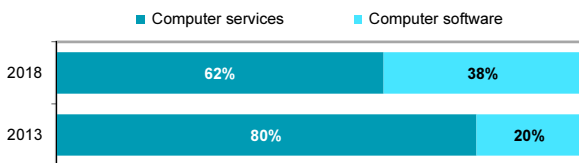
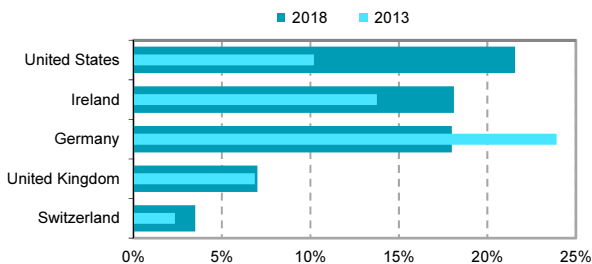


Figure D55 Computer services and SW exports by countries



Source: CZSO, Survey on exports and imports of services

D ICT external trade

Table D16 Computer services and software imports to Czechia

	CZK million		
	2016	2017	2018
Total	30 465	34 466	36 400
Computer services	22 606	25 414	26 913
Computer software	7 859	9 052	9 487
by selected countries			
EU28, total	22 256	24 673	26 372
of which from Germany	8 026	8 963	10 031
Other countries, total	8 209	9 793	10 028
of which from the United States	3 312	2 861	2 901

Figure D56 Computer services and software imports

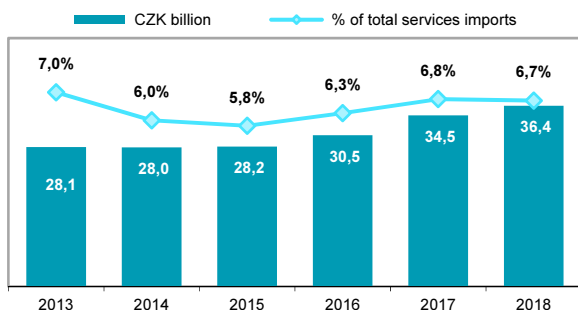


Figure D57 Computer services & SW imports by type of service

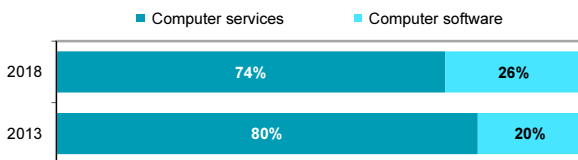
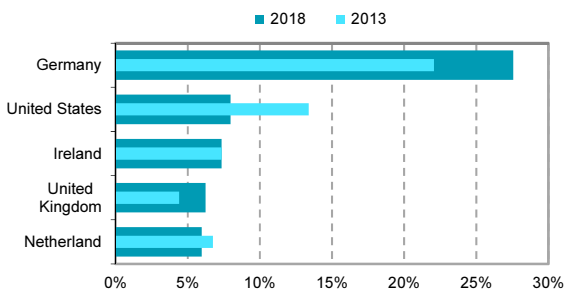


Figure D58 Computer services & SW imports by countries



Source: CZSO, Survey on exports and imports of services

D ICT external trade

Figure D59 Computer services and software exports; 2017
(% of GDP)

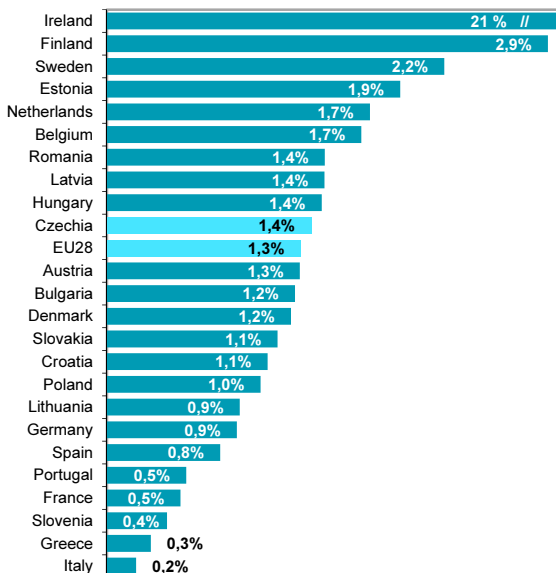


Figure D60 Computer services and software imports; 2017
(% of GDP)

