

D ICT external trade

ICT external trade **contains** trade in both ICT goods and ICT services. **ICT products** are defined as goods or services which must be primarily intended to fulfill or enable the function of information processing and communication **by electronic means**, including transmission and display (OECD 2008). Further information can be found at „**OECD Guide to Measuring the Information Society 2011**“:

D. 1 External trade of 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/>

D. 2 External trade of 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 and Licences to reproduce and/or distribute 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.

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

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Table D1 ICT goods exports from the Czech Republic

CZK million

	2014	2015	2016
Total	487 462	523 827	506 018
Computer equipment and peripherals	232 424	247 168	236 892
Communication equipment	88 432	104 021	97 651
Consumer electronics	71 144	70 087	72 922
Electronic components	35 112	42 707	45 144
ICT parts n.e.s.	60 349	59 844	53 409

Figure D1 ICT goods exports

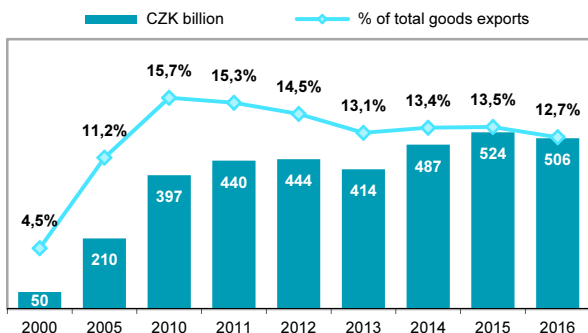


Figure D2 ICT goods exports by commodities

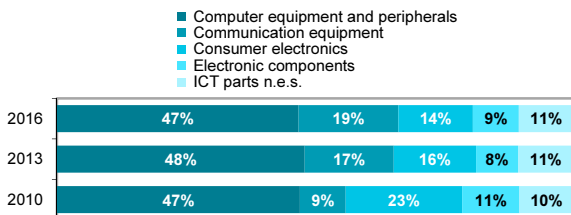
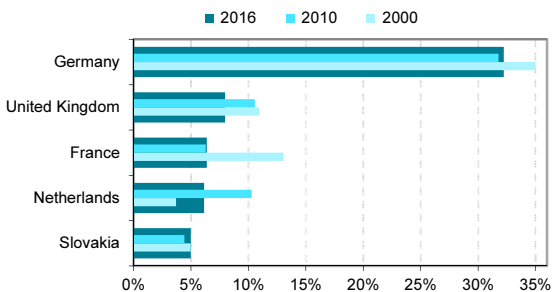


Figure D3 ICT goods exports from the Czech Rep. by countries



Source: CZSO, External Trade Statistics Database

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

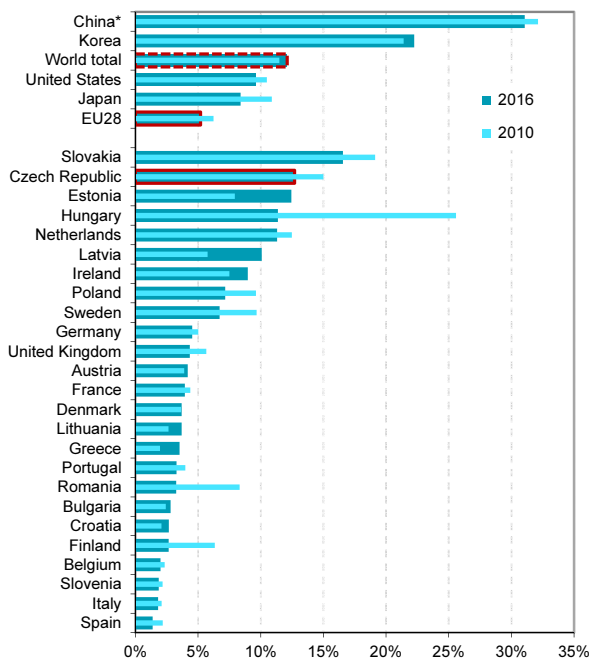
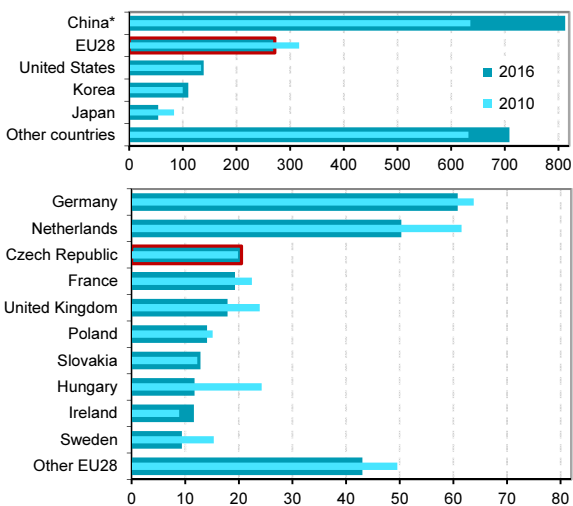


Figure D5 ICT goods exports (USD billion)



China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Table D2 ICT goods imports to the Czech Republic

CZK million

	2014	2015	2016
Total	450 580	540 741	496 943
Computer equipment and peripherals	145 750	189 009	170 630
Communication equipment	82 719	121 222	103 219
Consumer electronics	33 108	41 813	44 109
Electronic components	83 906	78 750	84 734
ICT parts n.e.s.	105 096	109 946	94 251

Figure D6 ICT goods imports

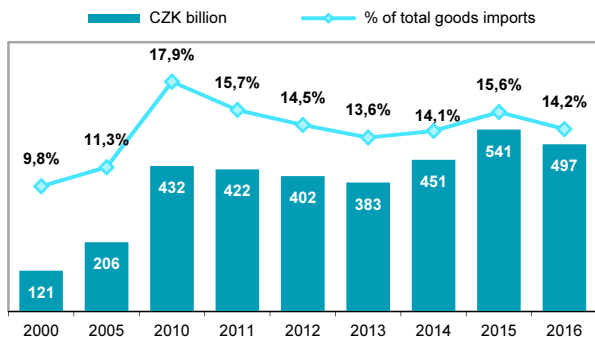


Figure D7 ICT goods imports by commodities

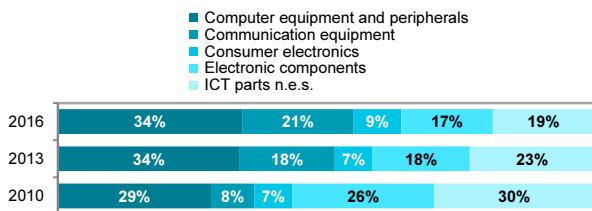
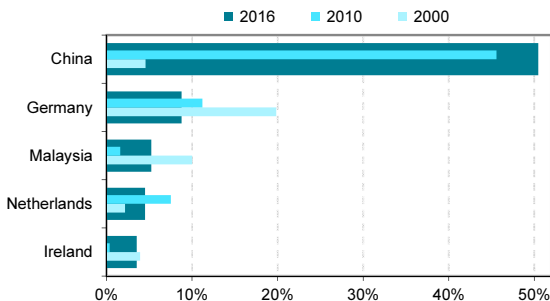


Figure D8 ICT goods imports to the Czech Rep. by countries



Source: CZSO, External Trade Statistics Database

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

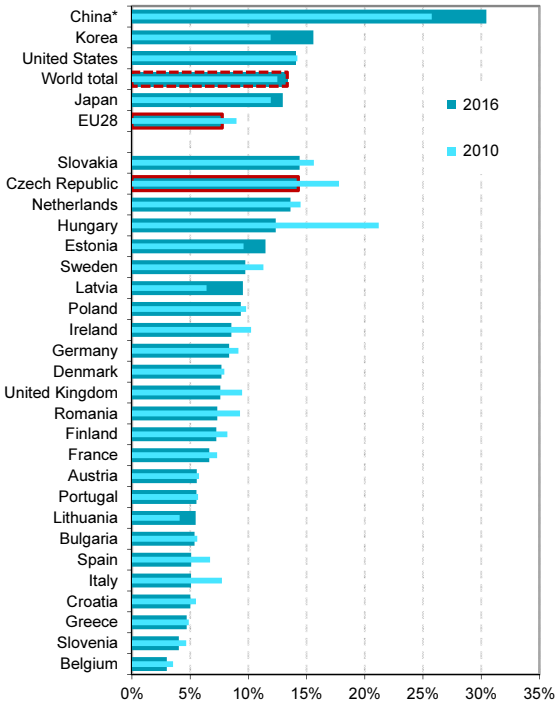
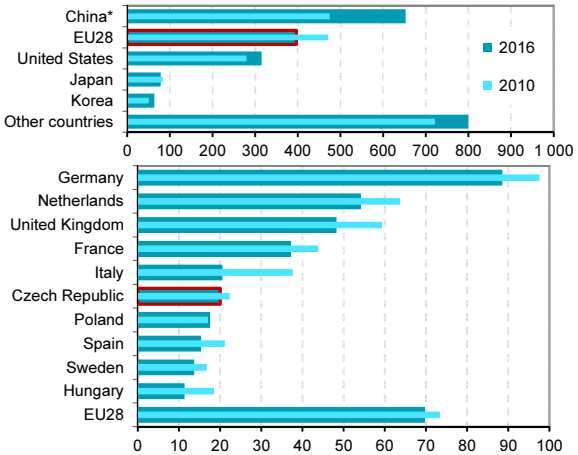


Figure D10 ICT goods imports (USD billion)

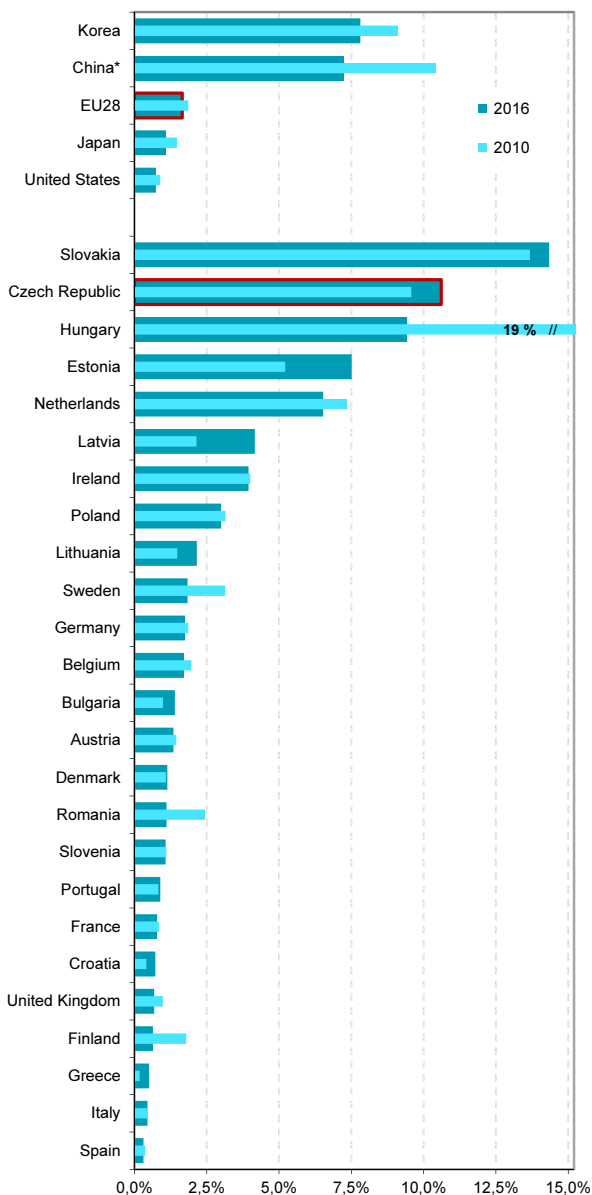


China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Figure D11 ICT goods exports (% of GDP)

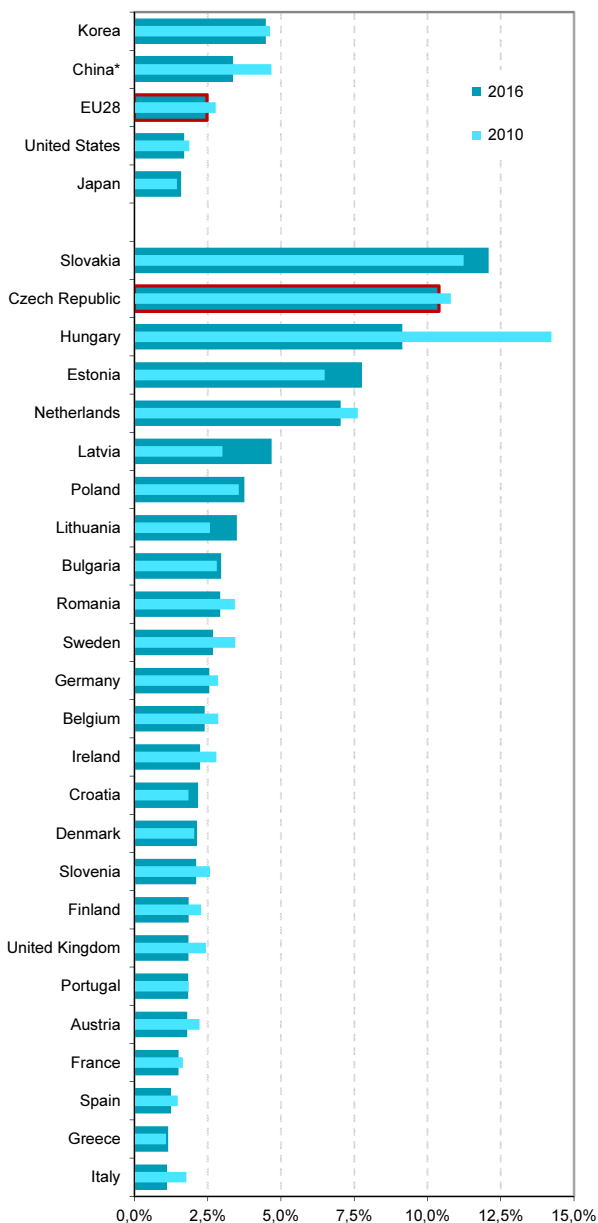


China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Figure D12 ICT goods imports (% of GDP)

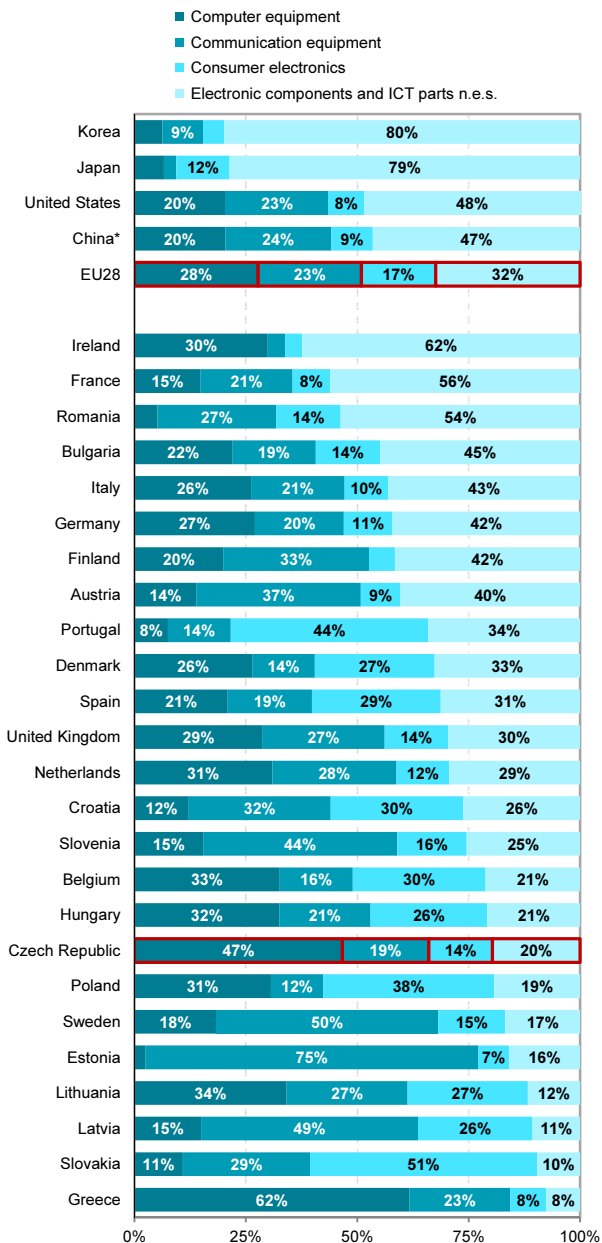


China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Figure D13 ICT goods exports by commodities; 2016

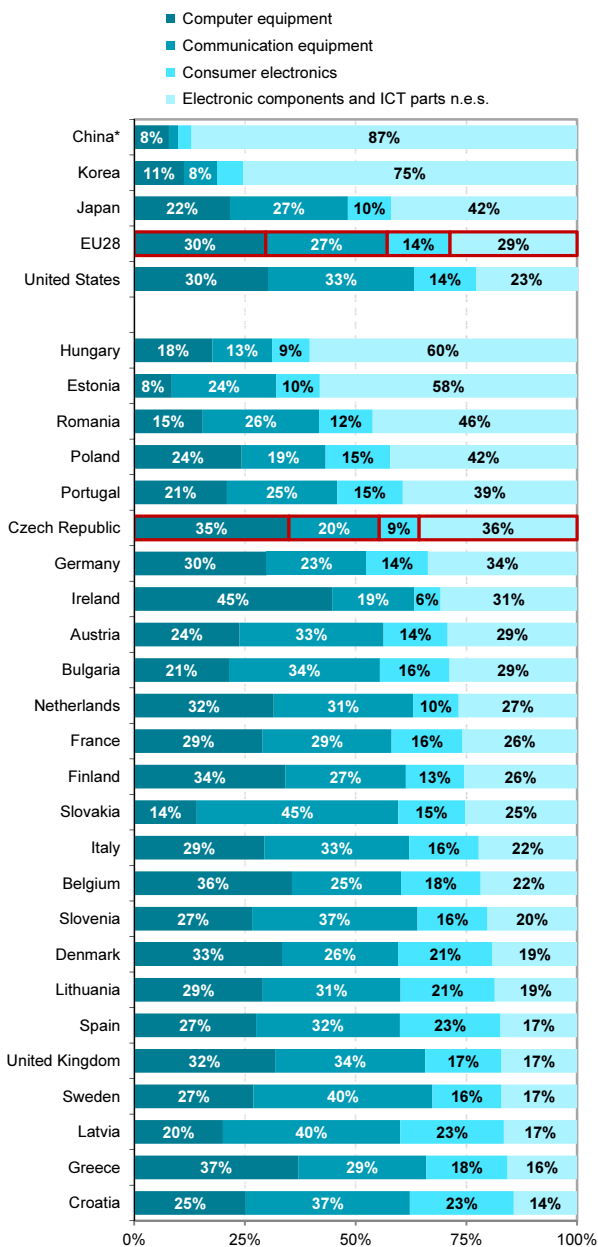


China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Figure D14 ICT goods imports by commodities; 2016



China* = (China; Hong Kong China; Macao China; China Taiwan)

Source: CZSO calculations based on UNCTAD

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Table D3 Computer equipment exports from the Czech Republic

CZK million

	2014	2015	2016
Total	232 424	247 168	236 892
Portable computers	60 266	59 098	56 158
Other computers	93 090	88 595	80 871
Computer peripherals, total	79 068	99 476	99 862
Storage units	45 330	59 505	56 238
Sound, video, network and similar cards	8 119	8 933	9 930
Monitors used with computers	11 662	15 956	16 286
Printers, copying or faxing machines	6 565	7 036	7 813
Other input or output peripherals*	7 392	8 046	9 596

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

Figure D15 Computer equipment exports

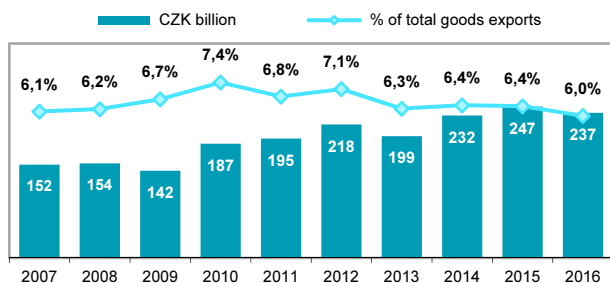


Figure D16 Computer equipment exports by commodities

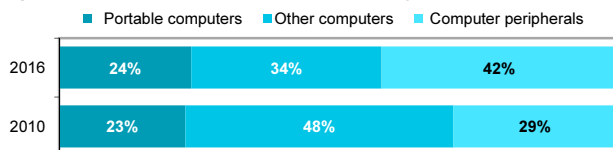
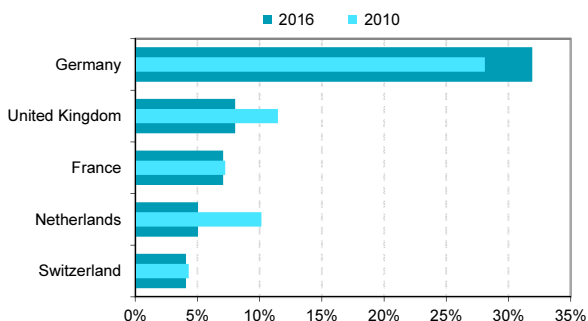


Figure D17 Computer equipment exports by countries



Source: CZSO, External Trade Statistics Database

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Table D4 Computer equipment imports to the Czech Republic

CZK million

	2014	2015	2016
Total	145 750	189 009	170 630
Portable computers	55 391	75 255	60 020
Other computers	20 520	23 745	19 599
Computer peripherals total	69 838	90 009	91 011
Storage units	37 875	50 873	50 022
Sound, video, network and similar cards	7 943	8 750	8 565
Monitors used with computers	10 746	15 164	15 885
Printers, copying or faxing machines	8 368	8 457	7 862
Other input or output peripherals*	4 906	6 766	8 677

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

Figure D18 Computer equipment imports

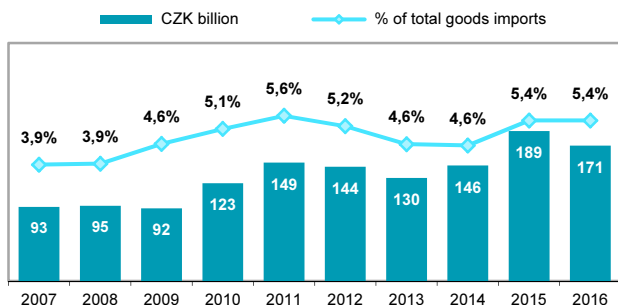


Figure D19 Computer equipment imports by commodities

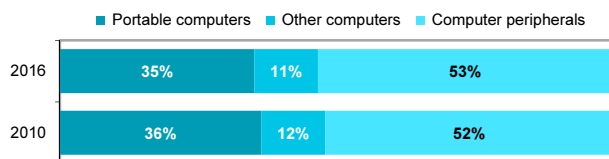
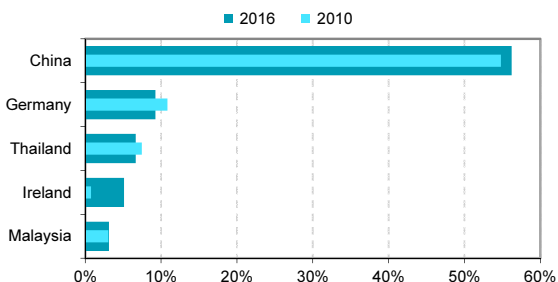


Figure D20 Computer equipment imports by countries



Source: CZSO, External Trade Statistics Database

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Table D5 Communication equipment exports from the Czech Rep.

CZK million

	2014	2015	2016
Total	88 432	104 021	97 651
Mobile phones	59 345	67 793	62 246
Other communication equipment*	29 087	36 229	35 405

* Switching, routing and similiar apparatus such as routers, bridges, hubs or modems; Base stations and other apparatus for transmission or reception of voice, images or other data; Radio or television transmission apparatus

Figure D21 Communication equipment exports

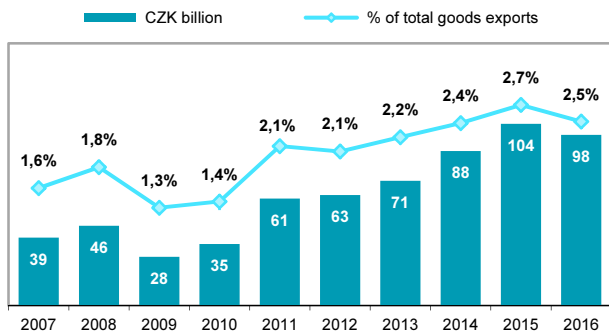


Figure D22 Communication equipment exports by commodities

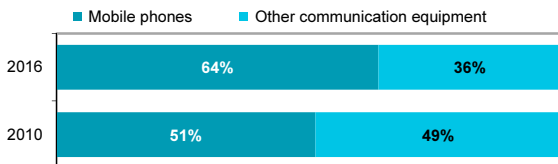
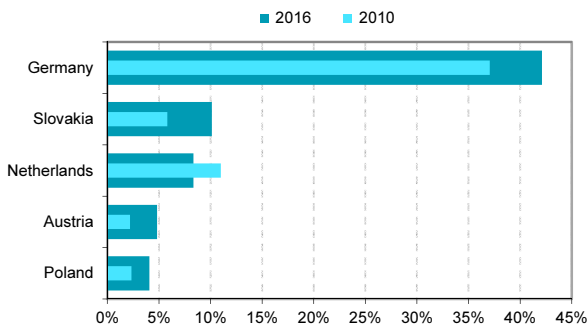


Figure D23 Communication equipment exports by countries



Source: CZSO, External Trade Statistics Database

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Table D6 Communication equipment imports to the Czech Rep.

CZK million

	2014	2015	2016
Total	82 719	121 222	103 219
Mobile phones	56 211	85 666	68 538
Other communication equipment*	26 508	35 556	34 681

* Switching, routing and similar apparatus such as routers, bridges, hubs or modems; Base stations and other apparatus for transmission or reception of voice, images or other data; Radio or television transmission apparatus

Figure D24 Communication equipment imports

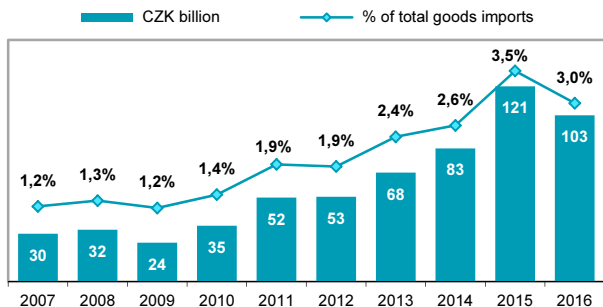


Figure D25 Communication equipment imports by commodities

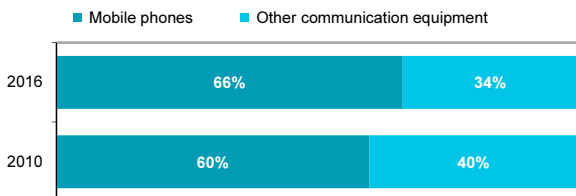
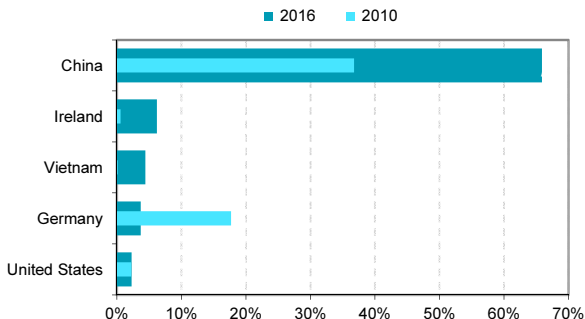


Figure D26 Communication equipment imports by countries



Source: CZSO, External Trade Statistics Database

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Table D7 Consumer electronics exports from the Czech Republic

CZK million

	2014	2015	2016
Total	71 144	70 087	72 922
Radio and TV receivers	50 320	42 537	39 009
Sound and image recording and reproducing apparatuses	8 149	13 366	15 119
Consumer electronics accessories*	12 675	14 183	18 793

* 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 D27 Consumer electronics exports

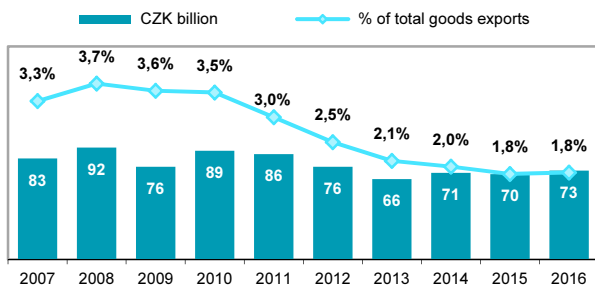


Figure D28 Consumer electronics exports by commodities

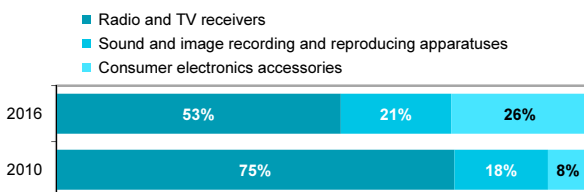
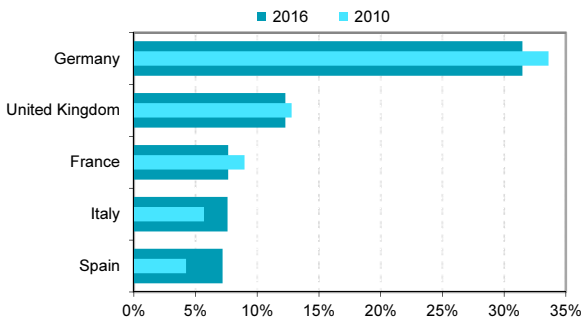


Figure D29 Consumer electronics exports by countries



Source: CZSO, External Trade Statistics Database

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Table D8 Consumer electronics imports to the Czech Republic

CZK million

	2014	2015	2016
Total	33 108	41 813	44 109
Radio and TV receivers	14 707	17 529	15 088
Sound and image recording and reproducing apparatuses	9 296	12 899	14 446
Consumer electronics accessories*	9 105	11 385	14 574

* 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 D30 Consumer electronics imports

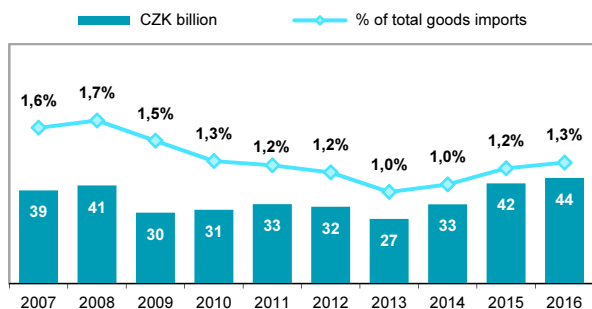


Figure D31 Consumer electronics imports by commodities

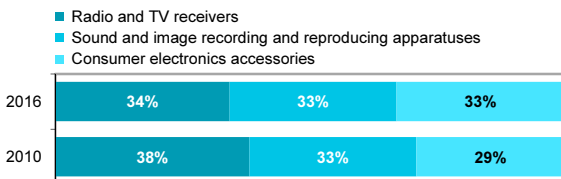
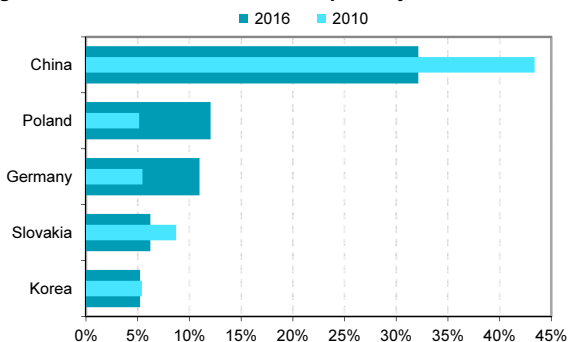


Figure D32 Consumer electronics imports by countries



Source: CZSO, External Trade Statistics Database

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Table D9 Electronic components exports from the Czech Rep.

CZK million

	2014	2015	2016
Total	35 112	42 707	45 144
Electronic integrated circuits	22 938	30 686	33 789
<i>of which Processors</i>	18 185	25 414	28 850
Printed circuits	4 548	4 584	4 874
Other electronic components	7 626	7 436	6 481

Figure D33 Electronic components exports

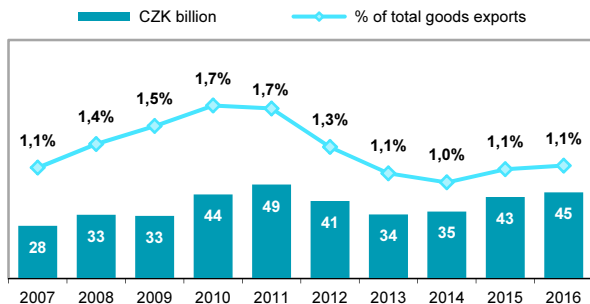


Figure D34 Electronic components exports by commodities

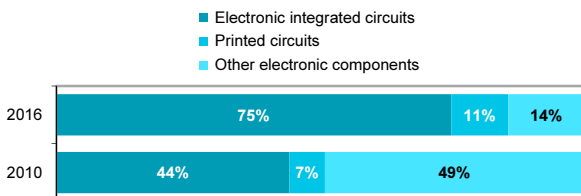
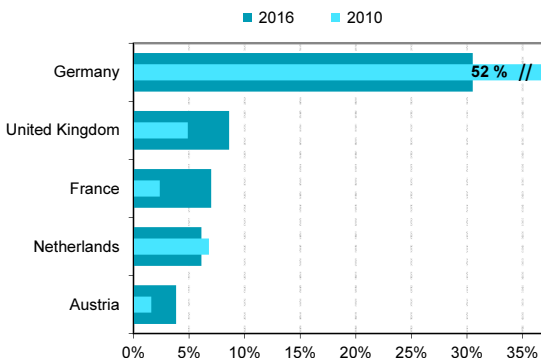


Figure D35 Electronic components exports by countries



Source: CZSO, External Trade Statistics Database

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Table D10 Electronic components imports to the Czech Rep.

CZK million

	2014	2015	2016
Total	83 906	78 750	84 734
Electronic integrated circuits, total	64 141	57 802	63 101
<i>of which Processors</i>	53 981	47 651	53 352
Printed circuits	8 746	9 914	11 570
Other electronic components	11 019	11 034	10 064

Figure D36 Electronic components imports

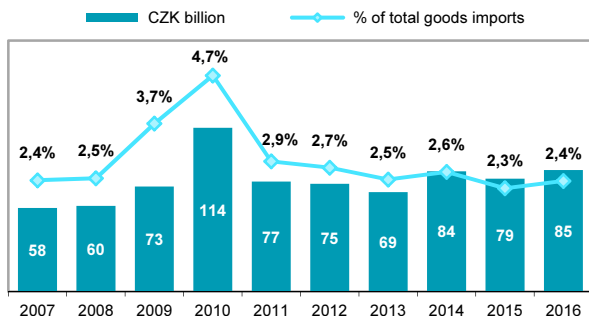


Figure D37 Electronic components imports by commodities

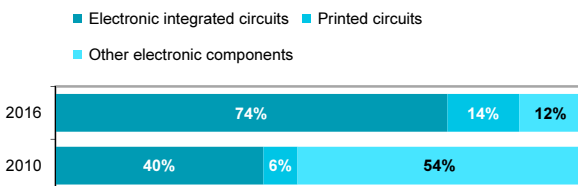
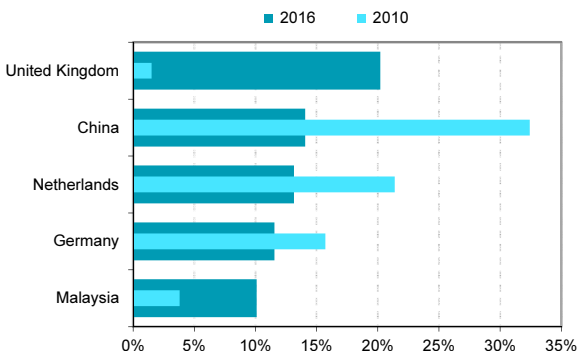


Figure D38 Electronic components imports by countries



Source: CZSO, External Trade Statistics Database

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Table D11 Exports of ICT parts n.e.s. from the Czech Republic

CZK million

	2014	2015	2016
Total	60 349	59 844	53 409
Parts and accessories n.e.s. of			
- computers	40 413	35 203	29 212
- telecommunication equipment	14 909	18 987	19 520
- consumer electronics	5 028	5 654	4 677

n.e.s. - not else specified

Figure D39 Exports of ICT parts and accessories n.e.s.

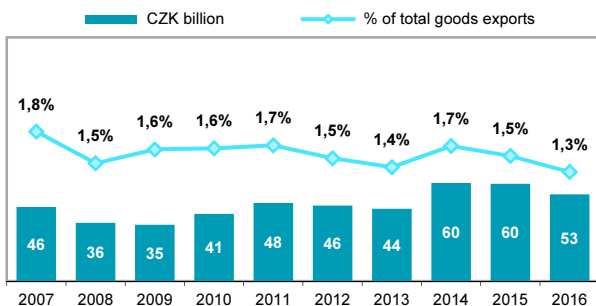


Figure D40 Exports of ICT parts n.e.s. by commodities

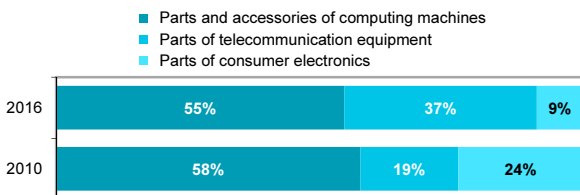
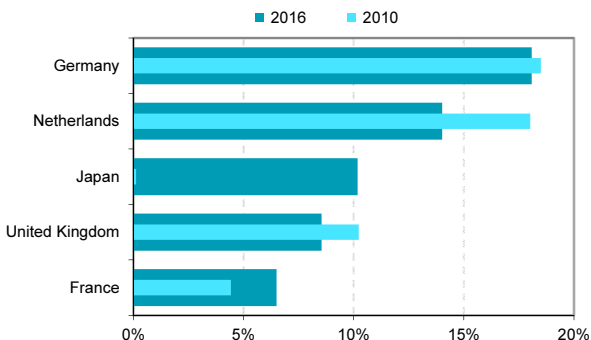


Figure D41 Exports of ICT parts n.e.s. by countries



Source: CZSO, External Trade Statistics Database

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Table D12 Imports of ICT parts n.e.s. to the Czech Republic

CZK million

	2014	2015	2016
Total	105 096	109 946	94 251
Parts and accessories n.e.s. of			
- computers	63 719	66 188	54 163
- telecommunication equipment	15 412	19 500	14 324
- consumer electronics	25 966	24 258	25 765

n.e.s. - not else specified

Figure D42 Imports of ICT parts and accessories n.e.s.

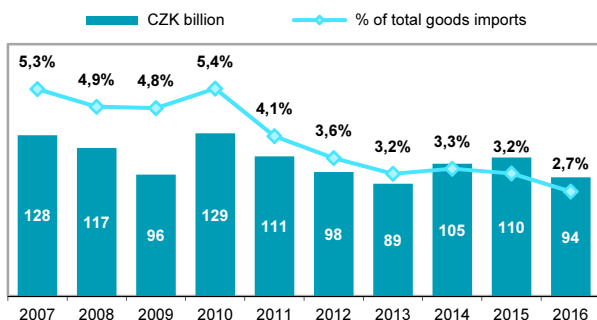


Figure D43 Imports of ICT parts n.e.s. by commodities

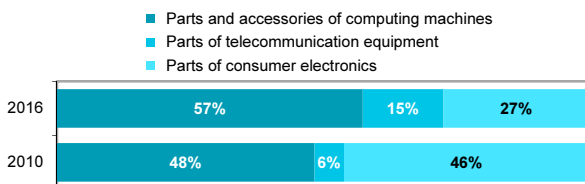
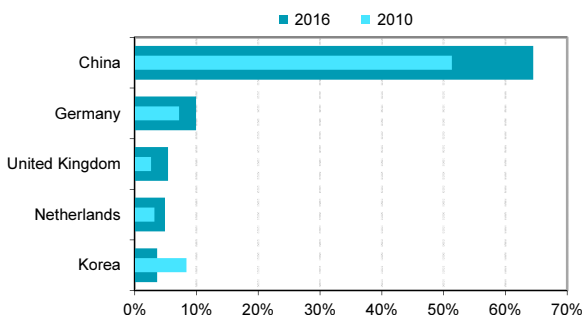


Figure D44 Imports of ICT parts n.e.s. by countries



Source: CZSO, External Trade Statistics Database

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Table D13 Total ICT services exports from the Czech Republic

CZK million

	2014	2015	2016
Total	61 364	67 988	79 068
Telecommunication services	11 554	11 299	15 420
Computer services	36 788	39 502	43 709
Computer software	13 023	17 188	19 938
by selected countries			
EU28, total	42 587	44 680	49 587
of which to Germany	11 447	12 851	15 178
Other countries, total	18 777	23 308	29 481
of which to the United States	7 798	11 586	14 839

Figure D45 Total ICT services exports

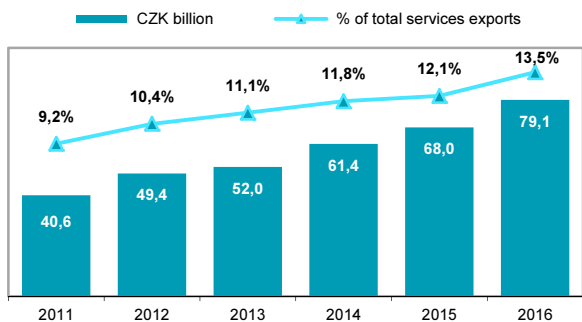


Figure D46 ICT services exports by type of service

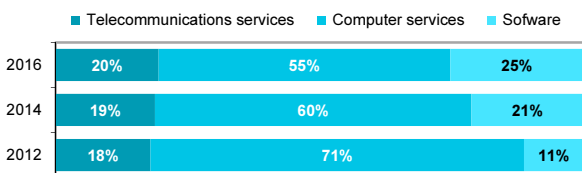
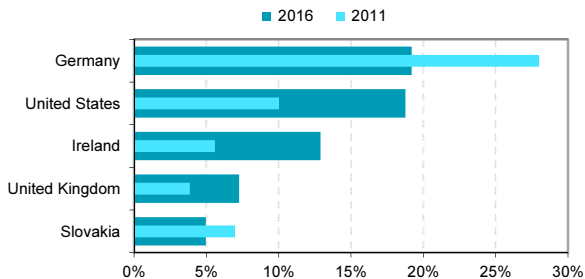


Figure D47 ICT services exports by countries



Source: CZSO, Survey on exports and imports of services

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**Figure D48 ICT services exports
(% of total services exports)**

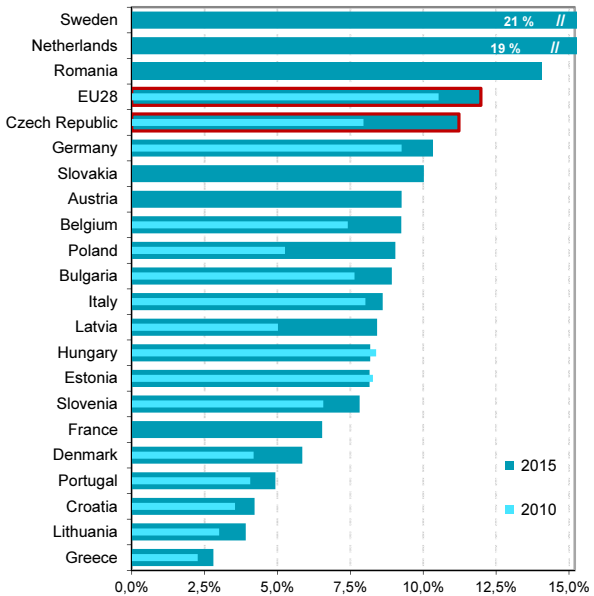
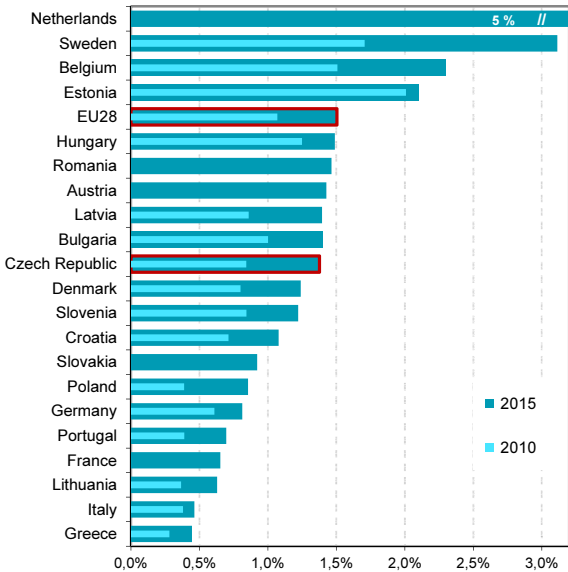


Figure D49 ICT services exports (% of GDP)



Source: Eurostat

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Table D14 Total ICT services imports to the Czech Republic

CZK million

	2014	2015	2016
Total	39 242	40 080	44 344
Telecommunication services	11 227	11 902	14 798
Computer services	22 561	21 566	22 453
Computer software	5 454	6 613	7 093
by selected countries			
EU28, total	27 580	27 255	30 090
of which from Germany	9 671	9 526	11 398
Other countries, total	11 662	12 826	14 254
of which from the United States	4 216	3 616	3 782

Figure D50 Total ICT services imports

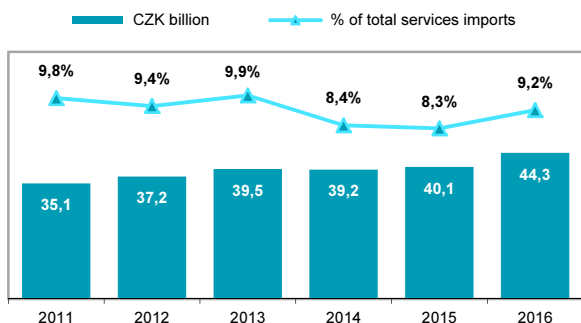


Figure D51 ICT services imports by type of service

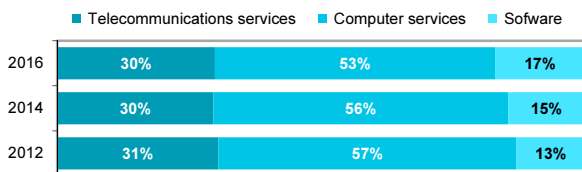
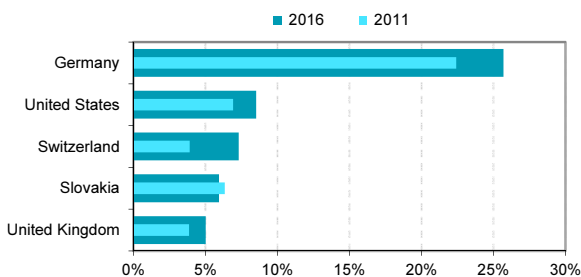


Figure D52 ICT services imports by countries



Source: CZSO, Survey on exports and imports of services

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**Figure D53 ICT services imports
(% of total services imports)**

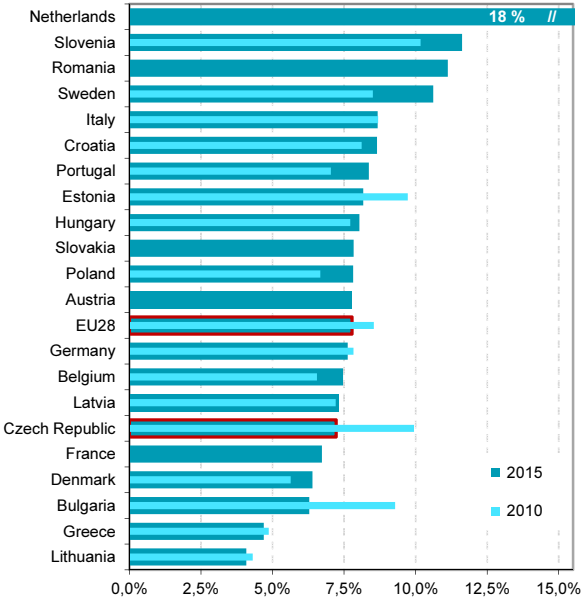
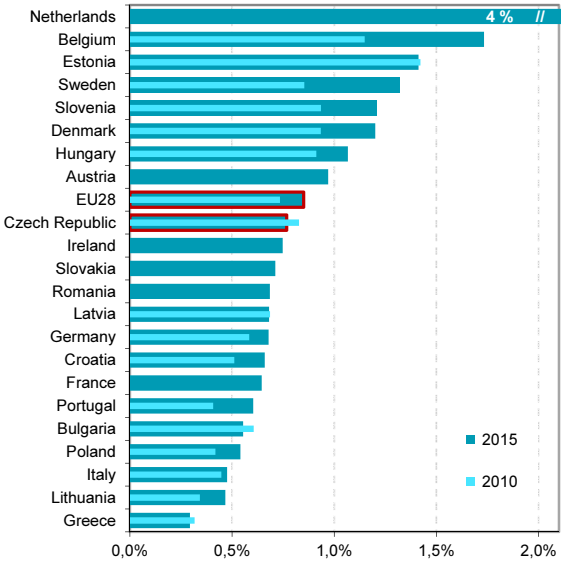


Figure D54 ICT services imports (% of GDP)



Source: Eurostat

D ICT external trade

Table D15 Computer services and software exports from the Czech Republic

	CZK million		
	2014	2015	2016
Total	49 811	56 690	63 648
Computer services	36 788	39 502	43 709
Computer software	13 023	17 188	19 938
by selected countries			
EU28, total	35 376	38 564	41 311
of which to Germany	9 566	10 345	11 811
Other countries, total	14 435	18 126	22 337
of which to the United States	7 476	10 958	13 617

Figure D55 Computer services and software exports

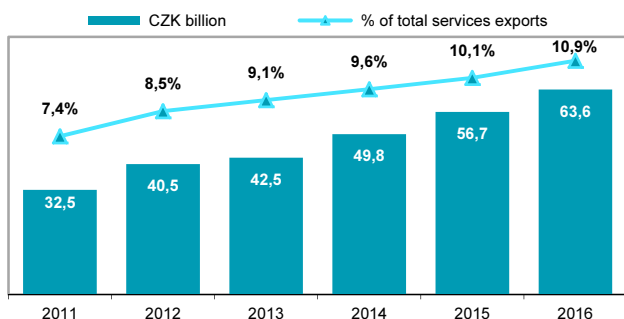


Figure D56 Computer services and SW exports by type of service

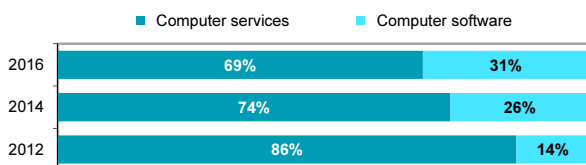
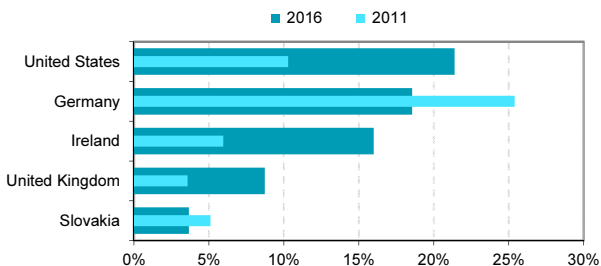


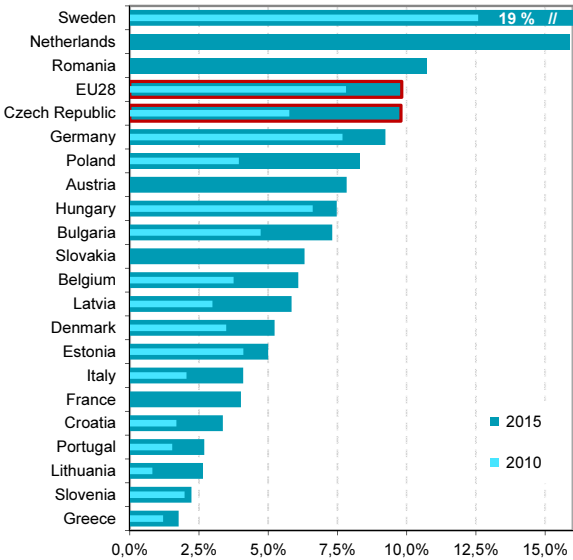
Figure D57 Computer services and SW exports by countries



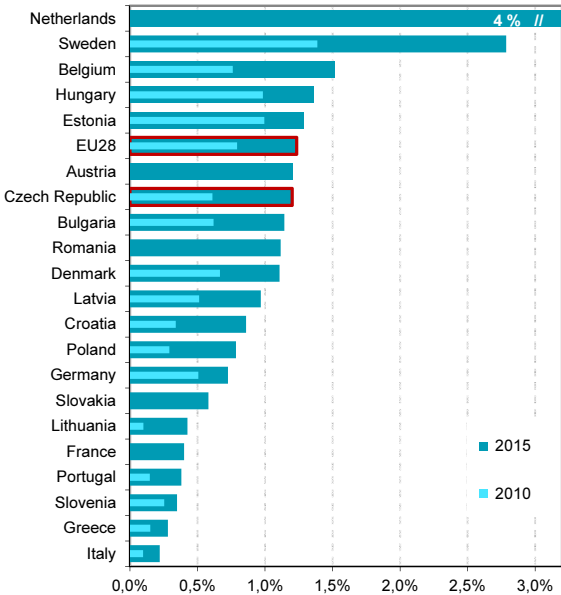
Source: CZSO, Survey on exports and imports of services

D ICT external trade

**Figure D58 Computer services and software exports
(% of total services exports)**



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



D ICT external trade

Table D16 Computer services and software imports to the Czech Republic

	CZK million		
	2014	2015	2016
Total	28 015	28 178	29 546
Computer services	22 561	21 566	22 453
Computer software	5 454	6 613	7 093
by selected countries			
EU28, total	20 233	20 219	21 330
of which from Germany	7 550	6 554	7 289
Other countries, total	7 781	7 959	8 216
of which from the United States	4 001	3 358	3 331

Figure D60 Computer services and software imports

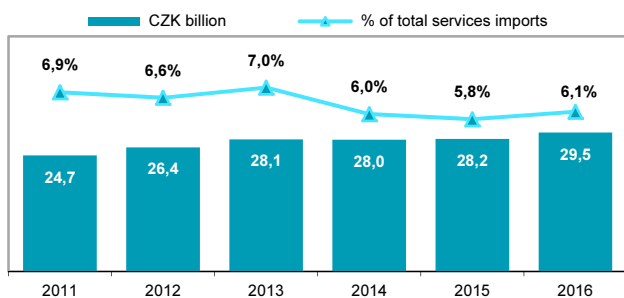


Figure D61 Computer services and SW imports by type of service

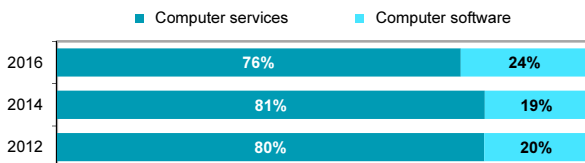
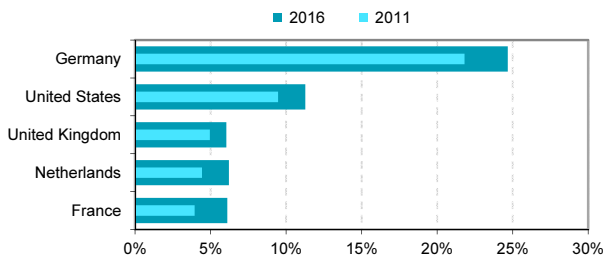


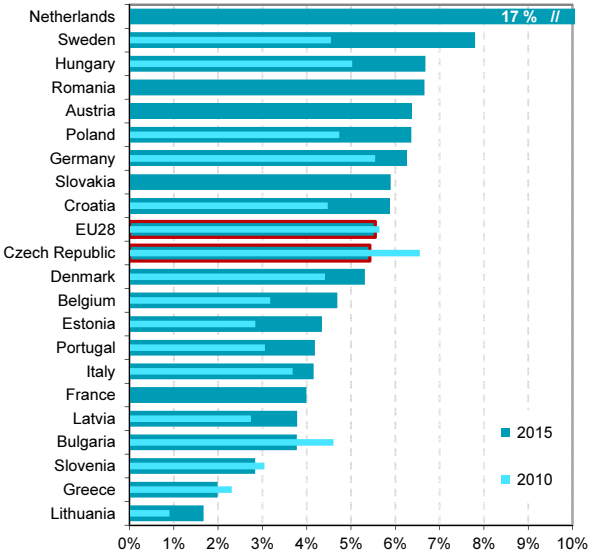
Figure D62 Computer services and SW imports by countries



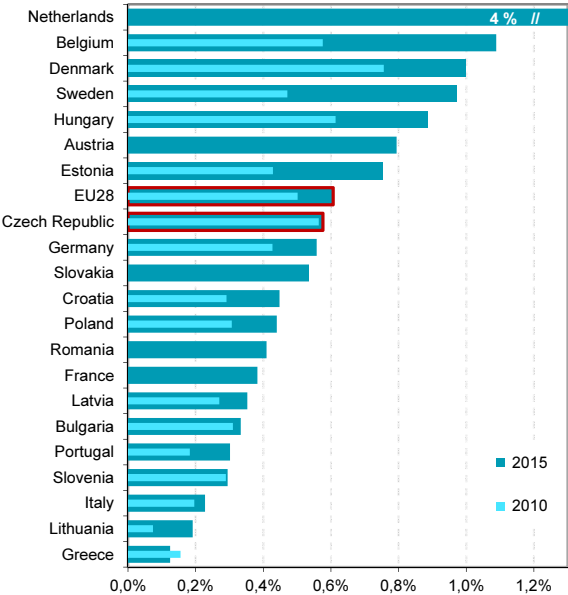
Source: CZSO, Survey on exports and imports of services

D ICT external trade

**Figure D63 Computer services and software imports
(% of total services imports)**



**Figure D64 Computer services and software imports
(% of GDP)**



Source: Eurostat