

B ICT expenditure and investment

The **Statistical Classification of Products by Activity in the European Economic Community, 2008 version (CPA 2008)** is used to identify appropriate products for measuring ICT related expenditures including investments. ICT products can be classified into two main categories based on the following CPA 2008 divisions and groups:

- **ICT equipment:**
 - Computers and peripheral (IT) equipment (262)
 - Communication equipment (263)
- **ICT services:**
 - Telecommunications services (61)
 - Computer programming, consultancy and related (IT) services (62)

Since expenditure data, except for investment, is available only at 2-digit level of CPA classification, category 'ICT equipment' includes the entire CPA section 26 (Computer, electronic and optical devices).

ICT expenditure by type of **supply** includes domestic production (P.1 minus export P.6), imports (P.7) and others (trade and transport margins, taxes and subsidies on products).

ICT expenditure by type of **use** includes intermediate consumption (P.2), final consumption (P.3), gross fixed capital formation (investment P.51) and changes in inventories (P.52).

Intermediate consumption (P.2) consists of the value of the goods and services consumed as inputs by a process of production, excluding fixed assets. The goods and services may be either transformed or used up by the production process. Intermediate consumption excludes items treated as gross capital formation (investment). *Households do not make intermediate consumption but only final consumption expenditures.*

Final consumption expenditure (P3) consists of expenditure on goods or services that are used for the direct satisfaction of individual needs or wants or the collective needs of members of the community (**mainly households**). *Corporations do not make final consumption expenditures. Households' consumption expenditures on IT services (software) are included under ICT equipment.*

ICT investment refers here to the Gross fixed capital formation (GFCF) and covers the acquisition of ICT equipment and software used in production for more than one year. ICT investment has three components: **IT equipment** (computers and related hardware: CPA 262); **communication equipment** (CPA 263) and **software** (CPA 582, 62). *Households do not make investment but only final consumption expenditures. None expenditures for Telecommunications services (CPA 61) is considered as investment.*

Computer software consists of costume made (original) or pre-packed computer programs, program descriptions and supporting materials for both systems and applications software including own-account produced software. For more information see **SNA2008 methodology**:

<https://unstats.un.org/unsd/nationalaccount/sna2008.asp>

The data come from the **Annual National Accounts Statistics** of the Czech Statistical Office. For more information see:

http://apl.czso.cz/pll/rocenka/rocenka.indexnu_en

The 2012 data are preliminary.

The **OECD Science, Technology and Industry Scoreboard 2013** was used as a data source for the **international comparison**.

Further information on ICT investment can be found at:

http://www.czso.cz/csu/redakce.nsf/i/investice_v_ict

B ICT expenditure and investment

Table B1 Total ICT expenditure in the Czech Republic

CZK million

	2010	2011	2012
Total	686 594	678 891	658 901
ICT equipment	412 202	397 969	381 066
Telecommunication services	142 421	132 799	126 919
IT services	131 971	148 123	150 916
Type of resources (supply side)			
Domestic output	251 388	263 337	236 508
Imports	360 373	344 309	352 782
Others (trade margins, taxes, subsidies)	74 833	71 245	69 611
Type of expenditures (user side)			
Investments (GFCF)	103 550	105 405	103 375
Changes in inventories	2 776	1 780	-876
Final consumption	96 762	91 476	89 563
Intermediate consumption	483 359	480 360	467 225

Figure B1 Total ICT expenditure (CZK billion)

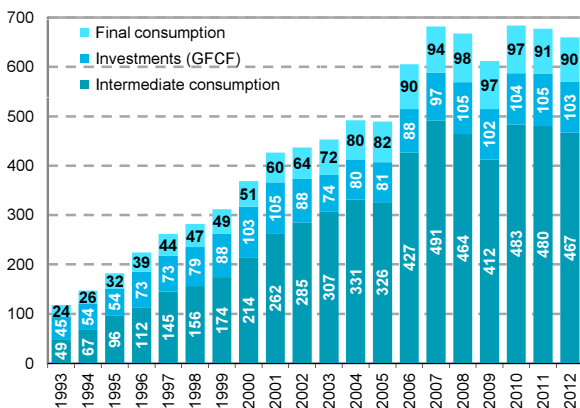
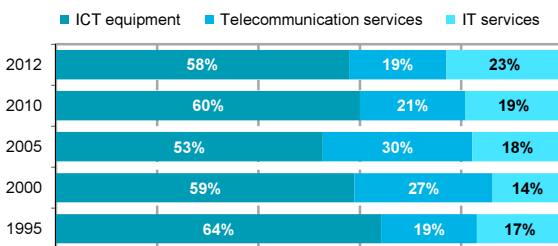


Figure B2 ICT expenditure by groups of products



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

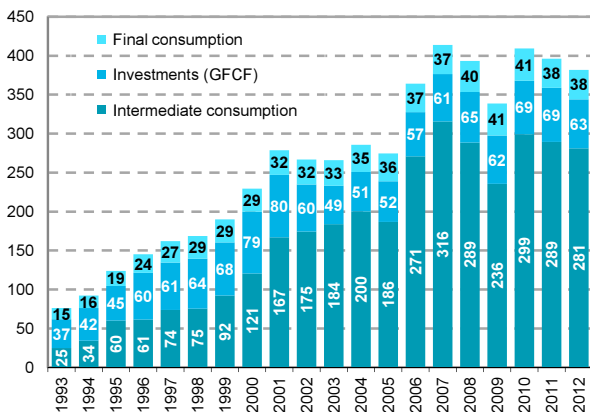
B ICT expenditure and investment

Table B2 ICT equipment expenditure in the Czech Republic

CZK million

	2010	2011	2012
Total	412 202	397 969	381 066
<i>Type of resources (supply side)</i>			
Domestic output	31 877	39 726	15 082
Imports	334 764	318 766	327 929
Others (trade margins, taxes, subsidies)	45 561	39 477	38 055
<i>Type of expenditures (user side)</i>			
Investments (GFCF), total	68 944	69 270	63 035
<i>of which ICT equipment</i>	45 303	47 538	39 802
Changes in inventories	2 776	1 780	-876
Final consumption	41 391	37 539	37 877
Intermediate consumption, total	299 091	289 380	281 030
<i>Industry (CZ-NACE section)</i>			
Agriculture	288	314	307
Mining and quarrying	182	205	205
Manufacturing, total	248 939	243 016	236 220
<i>of which in ICT industries (NACE 26)</i>	202 823	194 635	186 143
Electricity, gas and water supply	687	903	1 056
Construction	6 445	5 694	5 112
Wholesale and retail trade	3 427	3 284	3 299
Transportation and storage	3 189	3 024	2 953
Accommod. and food service activities	3 305	3 915	3 773
Information and communication	13 021	10 219	10 163
Financial and insurance activities	3 574	2 929	2 874
Real estate activities	432	484	454
Professional, scientific and technical activ.	6 395	6 349	6 264
Administrative and support service activ.	486	532	497
Public administration and defence	1 888	1 486	1 315
Education	2 993	3 063	2 714
Human health and social work activities	2 412	2 499	2 492
Other comm., social and personal services	1 428	1 464	1 332

Figure B3 ICT equipment expenditure (CZK billion)



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

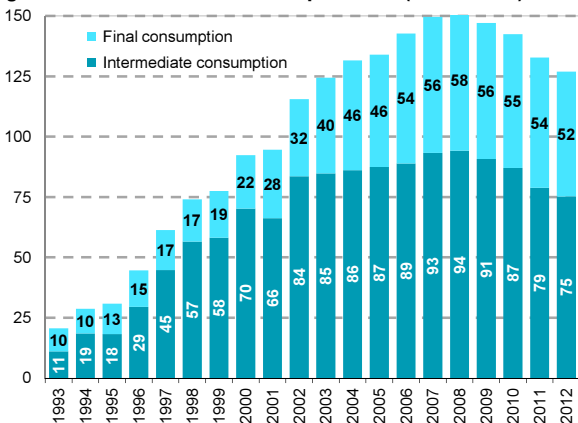
B ICT expenditure and investment

Table B3 Telecommunication expenditure in the CR

CZK million

	2010	2011	2012
Total	142 421	132 799	126 919
<i>Type of resources (supply side)</i>			
Domestic output	121 093	111 650	106 024
Imports	10 490	10 467	10 841
Others (trade margins, taxes, subsidies)	10 838	10 682	10 054
<i>Type of expenditures (user side)</i>			
Investments (GFCF)			
Final consumption	55 371	53 928	51 673
Intermediate consumption, total	87 050	78 871	75 246
<i>Industry (CZ-NACE section)</i>			
Agriculture	593	605	565
Mining and quarrying	74	62	63
Manufacturing	5 706	5 282	5 246
Electricity, gas and water supply	1 462	1 502	1 664
Construction	2 098	1 761	1 542
Wholesale and retail trade	7 272	6 586	6 177
Transportation and storage	3 449	2 996	2 759
Accommod. and food service activities	1 917	1 619	1 518
Information and communication, total	39 358	35 692	34 738
<i>of which in Telecom. industries (NACE 61)</i>	<i>35 604</i>	<i>32 295</i>	<i>31 423</i>
Financial and insurance activities	2 786	2 521	2 455
Real estate activities	2 254	1 932	1 773
Professional, scientific and technical activ.	4 942	4 176	3 966
Administrative and support service activ.	1 117	1 026	930
Public administration and defence	10 506	9 920	8 890
Education	1 059	1 062	918
Human health and social work activities	861	730	708
Other comm., social and personal services	1 596	1 399	1 334

Figure B4 Telecomm. services expenditure (CZK billion)



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

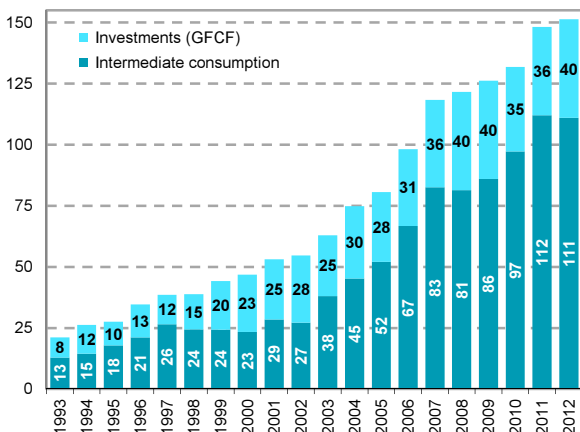
B ICT expenditure and investment

Table B4 IT services expenditure in the Czech Republic

CZK million

	2010	2011	2012
Total	131 971	148 123	150 916
<i>Type of resources (supply side)</i>			
Domestic output	98 418	111 961	115 402
Imports	15 119	15 076	14 012
Others (trade margins, taxes, subsidies)	18 434	21 086	21 502
<i>Type of expenditures (user side)</i>			
Investments (GFCF)	34 606	36 135	40 340
Final consumption			13
Intermediate consumption, total	97 218	112 109	110 949
<i>Industry (CZ-NACE section)</i>			
Agriculture	234	313	298
Mining and quarrying	48	51	50
Manufacturing	10 994	13 067	13 251
Electricity, gas and water supply	805	1 079	1 258
Construction	1 149	1 223	1 094
Wholesale and retail trade	8 985	10 783	10 445
Transportation and storage	2 047	2 324	2 269
Accommod. and food service activities	289	322	310
Information and communication, total	37 893	44 818	44 917
<i>of which in IT services indust. (NACE 62)</i>	<i>30 858</i>	<i>37 231</i>	<i>37 899</i>
Financial and insurance activities	17 316	19 058	18 634
Real estate activities	1 850	2 104	2 008
Professional, scientific and technical activ.	6 605	7 341	7 079
Administrative and support service activ.	1 424	1 708	1 551
Public administration and defence	1 719	1 619	1 461
Education	1 516	1 676	1 548
Human health and social work activities	713	782	783
Other comm., social and personal services	3 631	3 841	3 993

Figure B5 IT services expenditure (CZK billion)



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

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Table B5 Total ICT investment in the Czech Republic

CZK million

	2010	2011	2012
Total	82 702	86 459	82 442
ICT equipment (CZ CPA 262, 3)	45 414	47 538	39 802
Telecommunication services (CZ CPA 61)			
Software (CZ CPA 582, 62)	37 288	38 921	42 640
Industry (CZ-NACE Section)			
Agriculture	460	336	744
Mining and quarrying	389	745	662
Manufacturing	7 339	7 350	10 411
Electricity, gas and water supply	3 685	3 322	3 028
Construction	1 807	2 281	1 280
Wholesale and retail trade	6 883	7 347	8 276
Transportation and storage	2 629	3 540	3 445
Accommodation and food service activities	459	1 033	1 077
Information and communication, total	29 151	28 445	21 834
<i>of which in IT services industries (NACE 62)</i>	<i>7 710</i>	<i>8 165</i>	
Financial and insurance activities	9 012	8 783	8 993
Real estate activities	1 642	1 331	1 005
Professional, scientific and technical activ.	5 529	8 596	7 209
Administrative and support service activities	918	606	1 257
Public administration and defence	6 742	7 373	8 499
Education	2 702	2 763	2 362
Human health and social work activities	1 352	1 210	1 076
Other comm., social and personal services	2 003	1 398	1 284

Figure B6 Total ICT investment

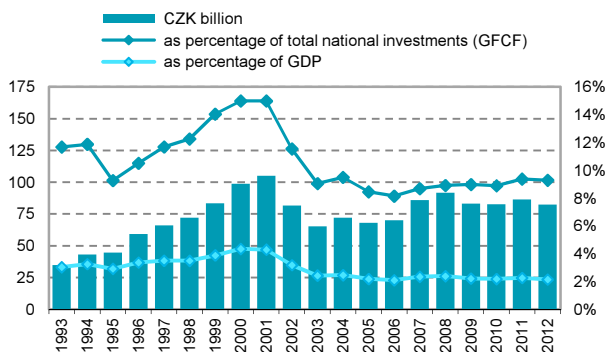
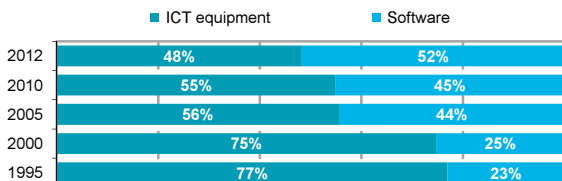


Figure B7 ICT investment by groups of products



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

B ICT expenditure and investment

Figure B8 ICT investment (as % of GDP)

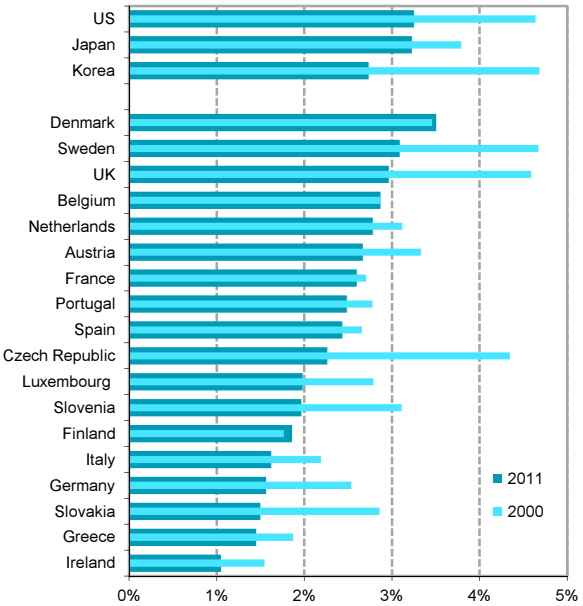
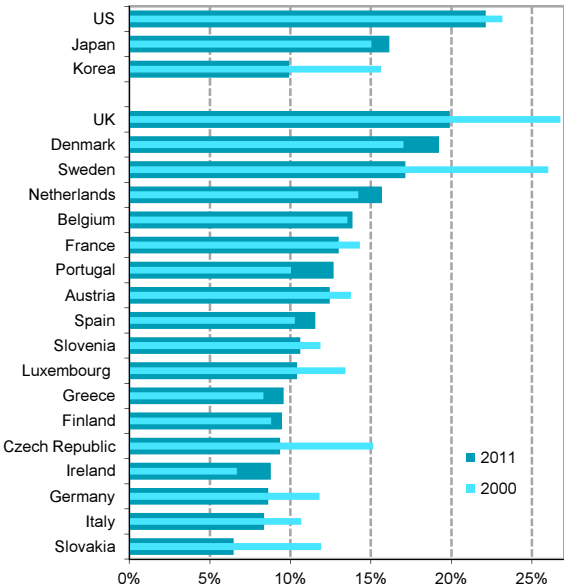


Figure B9 ICT investment (as % of total investment)



Source: OECD Science, Technology and Industry Scoreboard 2013

B ICT expenditure and investment

Table B6 ICT equipment investment in the Czech Republic

CZK million

	2010	2011	2012
Total	45 414	47 538	39 802
IT equipment (CZ CPA 262)	28 786	31 345	29 526
Communication equipment (CZ CPA 263)	16 628	16 193	10 276
Industry (CZ-NACE Section)			
Agriculture	185	177	582
Mining and quarrying	215	649	500
Manufacturing	2 349	3 589	4 806
Electricity, gas and water supply	2 524	2 384	1 969
Construction	1 120	1 465	836
Wholesale and retail trade	5 078	5 173	5 109
Transportation and storage	867	1 355	1 520
Accommodation and food service activities	371	885	966
Information and communication, total	19 289	16 245	10 534
<i>of which in IT services industries (NACE 62)</i>	<i>4 331</i>	<i>3 548</i>	<i>3 935</i>
Financial and insurance activities	1 214	1 636	1 545
Real estate activities	1 390	1 120	672
Professional, scientific and technical activ.	3 862	6 592	4 648
Administrative and support service activities	784	446	588
Public administration and defence	2 383	2 371	2 312
Education	1 545	1 691	1 871
Human health and social work activities	631	687	503
Other comm., social and personal services	1 607	1 073	841

Figure B10 ICT equipment investment

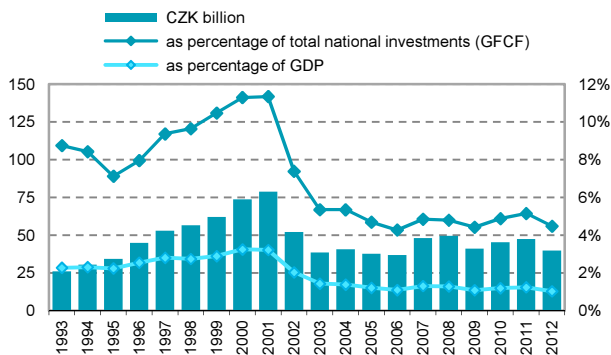
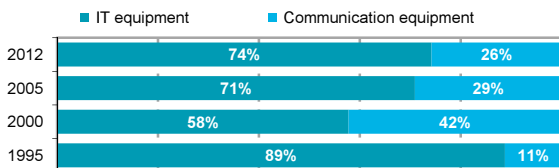


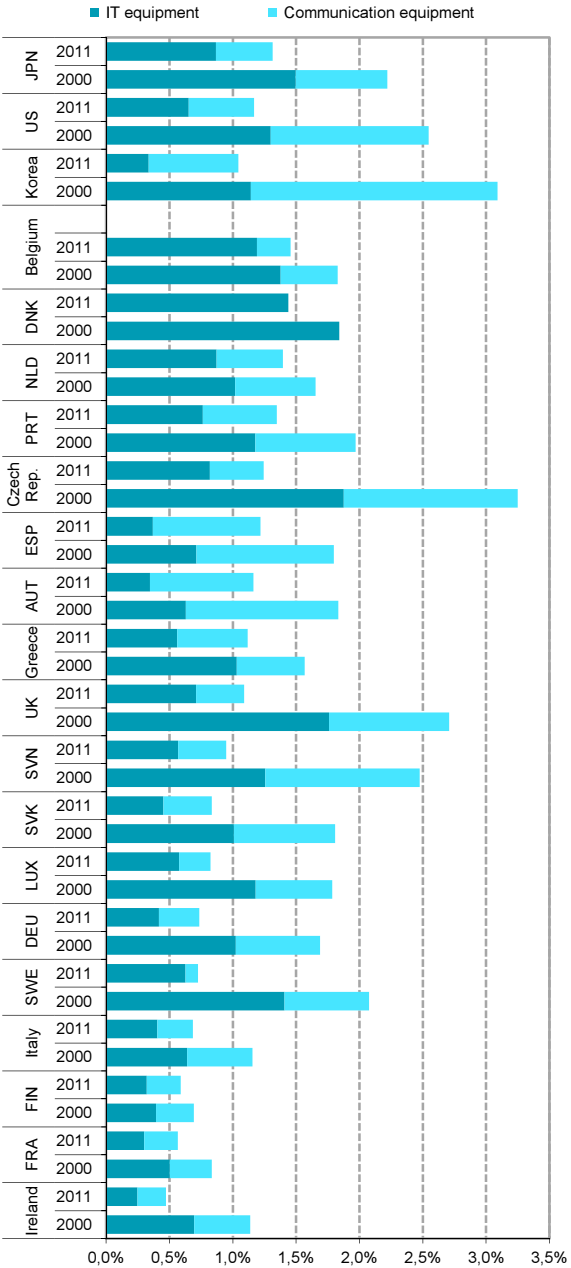
Figure B11 ICT equipment investment by type of goods



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

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Figure B12 ICT equipment investment (as % of GDP)



Source: OECD Science, Technology and Industry Scoreboard 2013

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Table B7 Software investment in the Czech Republic

CZK million

	2010	2011	2012
Total	37 288	38 921	42 640
Original/custom-made software (CZ CPA 62)	34 606	36 135	40 340
Other software (CZ CPA 582)	2 682	2 786	2 300
Industry (CZ-NACE Section)			
Agriculture	275	159	162
Mining and quarrying	174	96	162
Manufacturing	4 990	3 761	5 605
Electricity, gas and water supply	1 161	938	1 059
Construction	687	816	444
Wholesale and retail trade	1 805	2 174	3 167
Transportation and storage	1 762	2 185	1 925
Accommodation and food service activities	88	148	111
Information and communication, total	9 862	12 200	11 300
<i>of which in IT services industries (NACE 62)</i>	<i>3 379</i>	<i>4 617</i>	<i>.</i>
Financial and insurance activities	7 798	7 147	7 448
Real estate activities	252	211	333
Professional, scientific and technical activ.	1 667	2 004	2 561
Administrative and support service activities	134	160	669
Public administration and defence	4 359	5 002	6 187
Education	1 157	1 072	491
Human health and social work activities	721	523	573
Other comm., social and personal services	396	325	443

Figure B13 Software investment

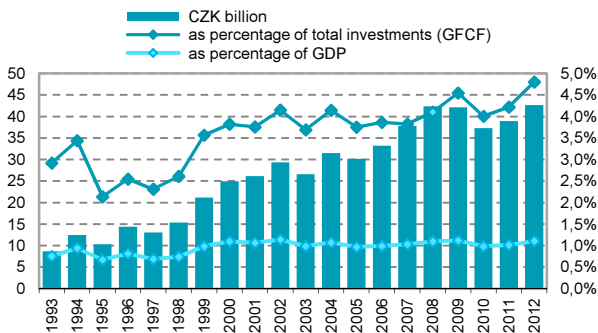
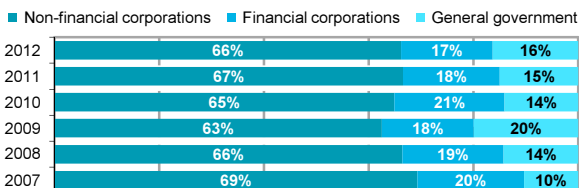


Figure B14 Software investment by sectors



Source: CZSO, Annual National Accounts Statistics - Supply and use tables

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Figure B15 Software investment (as % of GDP)

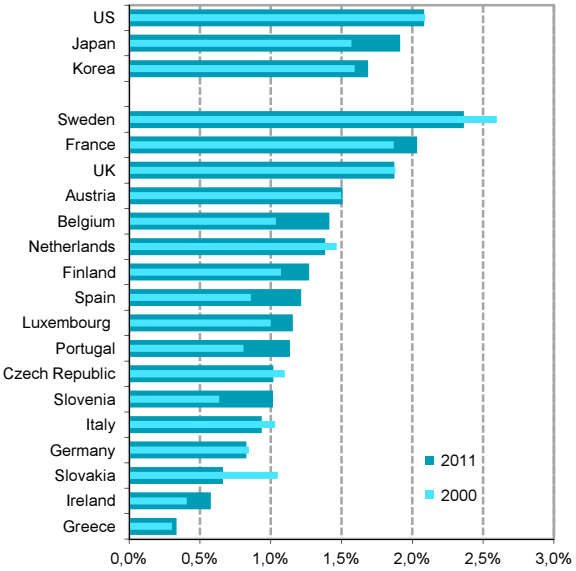
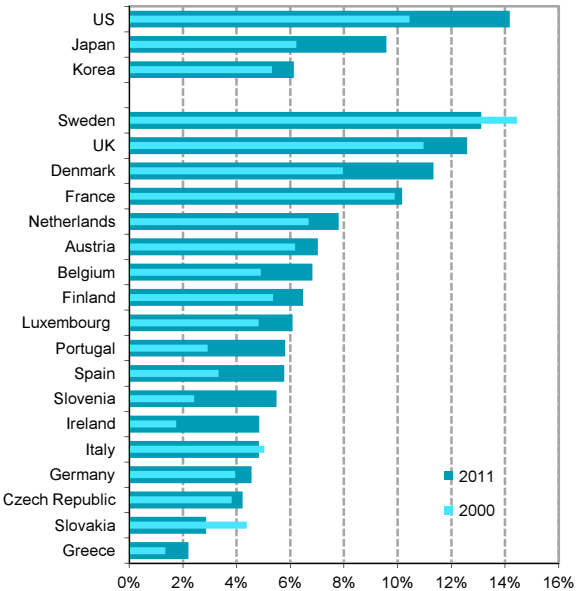


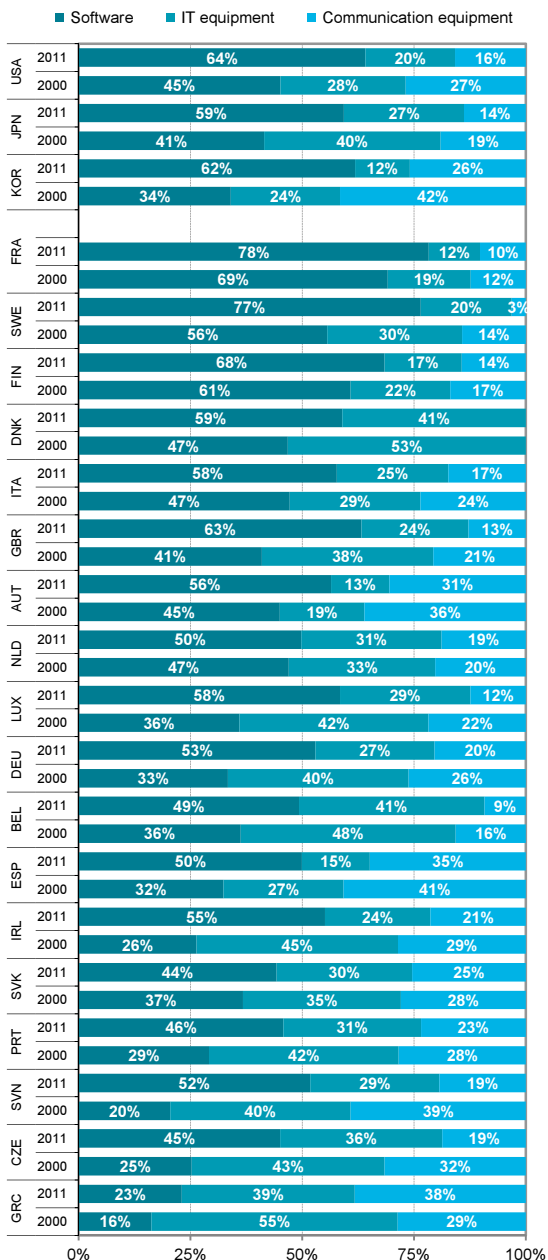
Figure B16 Software investment (as % of total investment)



Source: OECD Science, Technology and Industry Scoreboard 2013

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Figure B17 ICT investment by groups of products



Source: OECD Science, Technology and Industry Scoreboard 2013