

F Education and digital skills

Numbers of desktop computers, tablets and laptops both with and without Internet connection calculated per 100 students in different levels of schools have been collected by **Ministry of Education, Youth and Sports**. Numbers of schools equipped with school wireless network and school intranet come from the same source. These indicators have been collected from nursery, basic, secondary and higher professional schools every year since 2005 (nursery school since 2014). The indicators have been also available in regional breakdown. This publication presents only data for the latest two years of this survey since the methodology has changed in 2014.

Notes:

Reference period: 30/9 of reference year

PISA 2012, survey conducted by OECD, have been used for international comparison. Questionnaires targeted on schools and questionnaires targeted on students have been used. Data presented in this chapter come from questionnaire targeted on 15-year-old students and present information on their usage of the Internet at schools.

Sample Survey on ICT Use in Households and by Individuals has been used as a source for data on **computer skills** of individuals (this survey is described in details in the opening text of chapter C). Eurostat database has been used for international comparison. Data contained in this chapter present mainly information about usage of different kinds of software.

Sample Survey on ICT Use in Households and by Individuals has been also used as a source for data on different activities carried out by students. Eurostat database has been used for international comparison. *Data from this database were extracted in March 2016.*

Comparability of data published by the CZSO and Eurostat: The data for the Czech Republic published by Eurostat slightly differs from the data published by the CZSO. This difference is due to the fact that Eurostat includes solely individuals aged between 16 and 74 years. The CZSO provides as standard data for the whole adult population aged 16 and over. *This is the reason why the tables in this publication give for the Czech Republic dual total values: total of aged 16 and over and total aged 16-74.*

Reference period (data for all individuals and students): last 3 months before the time of answering the questions (unless otherwise stated)

Notes:

- **Student** is a person in age of 16 years and more who was in the time of survey in a formal education and designated education as his/her main occupation.
- **School intranet** is an internal communication network in schools using an Internet protocol allowing communications within a school building.

For more information on Eurostat database see:

<http://ec.europa.eu/eurostat/web/information-society> and

<http://ec.europa.eu/eurostat/web/information-society/methodology>

Further information on ICT use by individuals can be found at:

https://www.czso.cz/csu/czso/domacnosti_a_jednotlivci

Further information on ICT use by students can be found at:

https://www.czso.cz/csu/czso/information_technologies_in_schools

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Tab. F1 Computers available to students in the Czech Republic during the school year 2015/16

number of devices per 100 students*

	Desktop computer	Portable computer	Tablet
Total			
First stage of basic schools	13,3	1,8	0,9
Second stage of basic schools	23,0	2,6	1,4
Secondary schools	19,6	2,2	0,9
Higher professional schools	40,9	3,0	0,5
with Internet access			
First stage of basic schools	13,0	1,7	0,9
Second stage of basic schools	22,8	2,5	1,4
Secondary schools	19,3	2,2	0,9
Higher professional schools	39,1	3,0	0,3

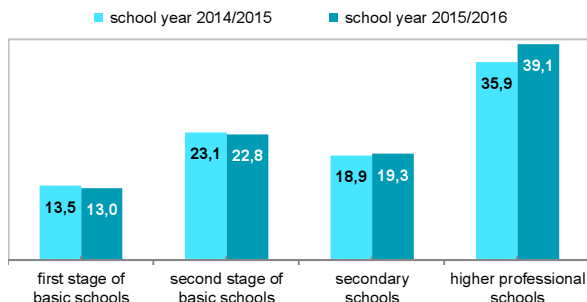
* devices privately owned by students are not included

Tab. F2 Schools equipped with School wireless network (Wi-fi) and Intranet during the school year 2015/16

	Number of schools	% of schools*
School wireless network (Wi-fi)		
First stage of basic schools	3 227	78,7
Second stage of basic schools	2 211	81,6
Secondary schools	1 135	87,0
Higher professional schools	167	83,9
School Intranet		
First stage of basic schools	586	14,3
Second stage of basic schools	550	20,3
Secondary schools	601	46,1
Higher professional schools	108	54,3

* percentage of all schools of a given type

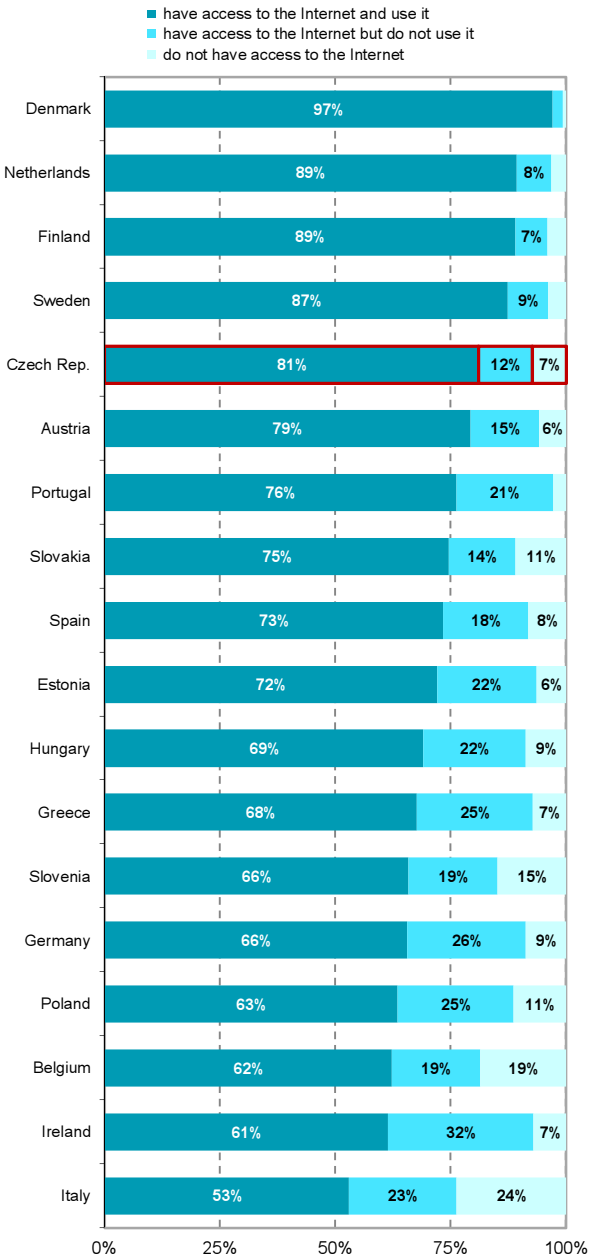
Figure F1 The number of desktop computers with Internet connection (per 100 students) in a given type of schools



Source: Ministry of Education, Youth and Sports of the Czech Republic, 2016

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Figure F2 Students aged 15 in EU countries with the Internet access at school; 2012



Source: OECD, PISA Survey, 2012

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Tab. F3 Individuals in the Czech Republic with selected computer skills; 2015

%

	Copying files	Editing photos	Program-ming
Total (aged 16+)	55,4	25,3	3,3
Total (aged 16-74)	59,8	27,4	3,6
Gender:			
Males (aged 16+)	58,8	31,5	6,1
Females (aged 16+)	52,1	19,4	0,6
Age group:			
16-24 year-olds	85,7	51,2	8,2
25-34 year-olds	78,8	43,1	6,5
35-44 year-olds	72,4	31,4	3,3
45-54 year-olds	58,5	20,8	3,3
55-64 year-olds	39,3	11,8	0,5
65 year-olds and over	13,7	4,5	0,2
Education attainment level (aged 25+):			
Primary (ISCED 0, 1 or 2)	12,8	5,3	0,2
Lower secondary (ISCED 3C)	32,7	10,6	0,5
Upper secondary (ISCED 3A or 4)	67,8	30,9	3,5
Tertiary (ISCED 5 or 6)	86,0	44,9	9,1
Specific groups:			
Women on maternity leave	72,8	32,0	0,7
Students (aged 16+)	91,2	56,9	9,7
Pensioners	15,0	5,3	0,2

as a percentage of all individuals in a given socio-demographic group

Figure F3 Photo editing software use by sex and age, 2015

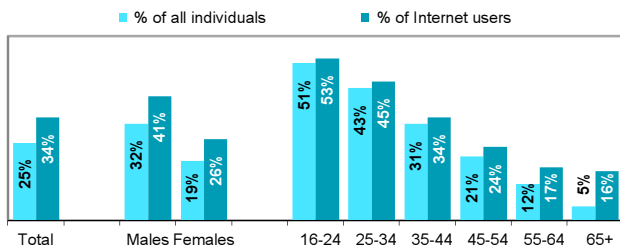
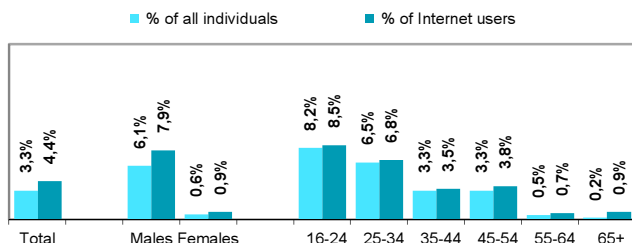


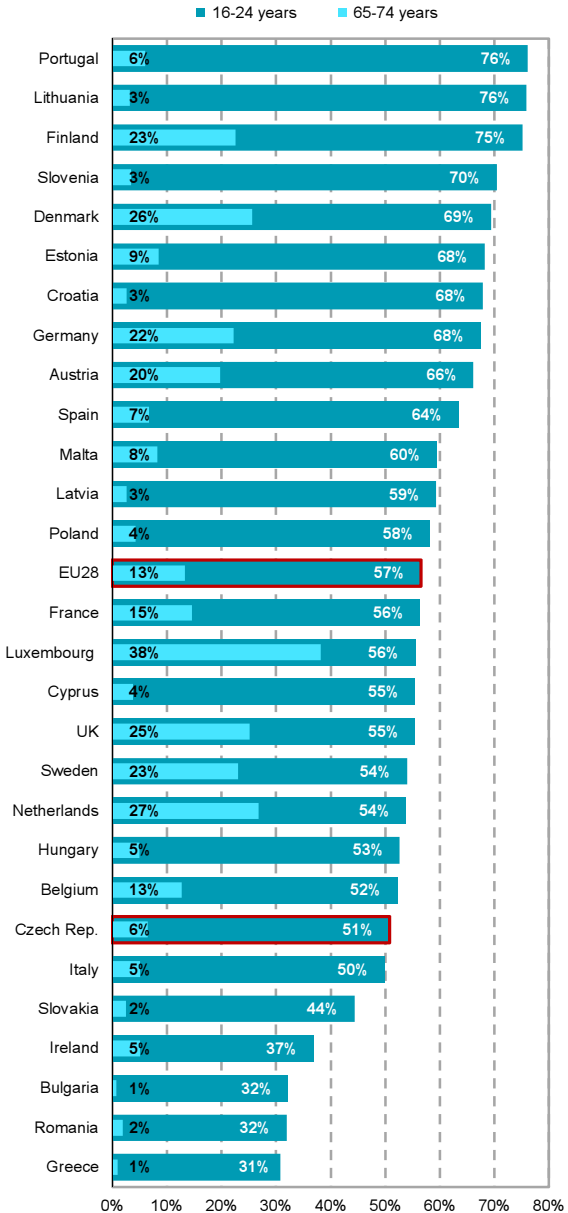
Figure F4 Programming by sex and age; 2015



Source: Czech Statistical Office, ICT use survey in households

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Figure F5 Individuals aged 16 to 24 and 65 to 74 in EU countries who used software to edit photos, 2015



as a percentage of all individuals in a given age group and country

Source: Eurostat 2015

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Tab. F4 Individuals in the Czech Republic who declared they used selected Office software, 2015

%

	Word process. software	Spread sheet software	Present. software
Total (aged 16+)	52,9	41,5	29,3
Total (aged 16-74)	57,0	44,9	31,8
Gender:			
Males (aged 16+)	54,7	43,7	32,1
Females (aged 16+)	51,2	39,4	26,6
Age group:			
16-24 year-olds	83,7	74,3	65,5
25-34 year-olds	73,7	59,6	46,2
35-44 year-olds	69,6	52,5	35,8
45-54 year-olds	56,8	43,3	27,1
55-64 year-olds	37,1	27,7	12,8
65 year-olds and over	12,4	7,4	3,8
Education attainment level (aged 25+):			
Primary (ISCED 0, 1 or 2)	11,3	6,9	4,5
Lower secondary (ISCED 3C)	28,9	16,2	8,6
Upper secondary (ISCED 3A or 4)	65,5	52,8	33,8
Tertiary (ISCED 5 or 6)	86,0	76,3	63,9
Specific groups:			
Women on maternity leave	68,0	47,7	38,5
Students (aged 16+)	91,1	83,1	74,8
Pensioners	14,5	8,6	3,9

as a percentage of all individuals in a given socio-demographic group

Figure F6 Word processing software use by sex and age, 2015

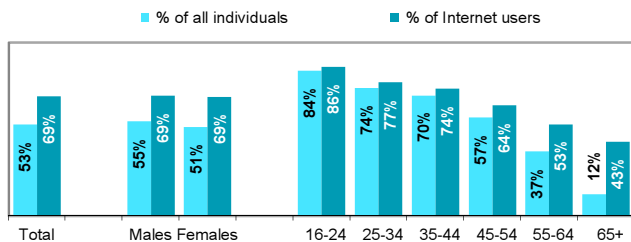
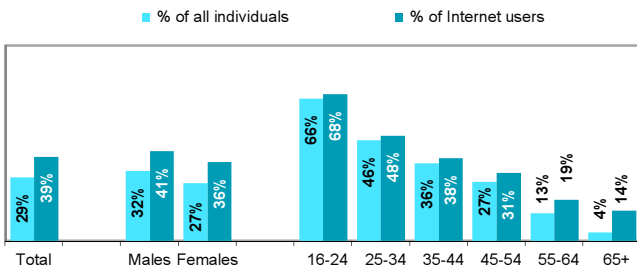


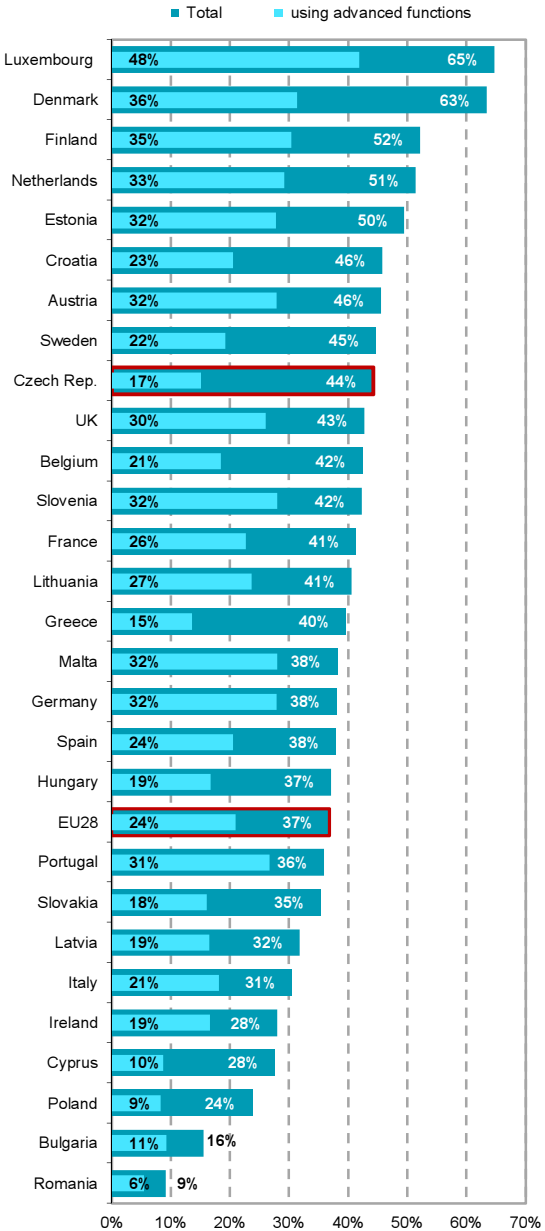
Figure F7 Presentation software use by sex and age, 2015



Source: Czech Statistical Office, ICT use survey in households

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Figure F8 Individuals in EU countries who used Word processing software, 2015



as a percentage of all individuals aged 16 to 74 in a given country

Source: Eurostat 2015

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Tab. F5 Individuals in the Czech Republic using the Internet for selected educational activities, 2015

%

	Looking for information about education	Consulting wikis	Doing an on-line course
Total (aged 16+)	19,3	34,7	2,6
Total (aged 16-74)	20,9	37,3	2,8
Gender:			
Males (aged 16+)	18,1	34,8	2,4
Females (aged 16+)	20,4	34,6	2,8
Age group:			
16-24 year-olds	43,7	67,5	4,4
25-34 year-olds	30,6	49,8	3,9
35-44 year-olds	23,6	39,7	4,0
45-54 year-olds	16,5	32,3	2,4
55-64 year-olds	9,6	23,6	1,4
65 year-olds and over	2,1	10,0	0,3
Education attainment level (aged 25+):			
Primary (ISCED 0, 1 or 2)	1,6	4,8	0,0
Lower secondary (ISCED 3C)	5,4	15,2	0,5
Upper secondary (ISCED 3A or 4)	23,7	41,4	3,6
Tertiary (ISCED 5 or 6)	39,9	64,2	6,0
Specific groups:			
Women on maternity leave	27,0	45,4	3,7
Students (aged 16+)	53,3	80,6	5,2
Pensioners	2,0	10,9	0,2

as a percentage of all individuals in a given socio-demographic group

Figure F9 Looking for information about education by sex and age, 2015

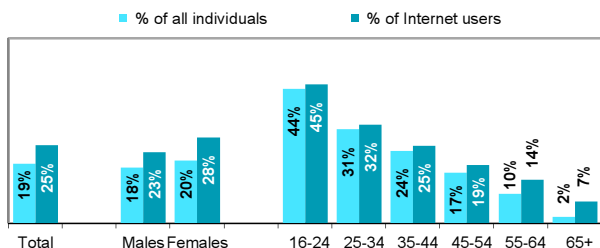
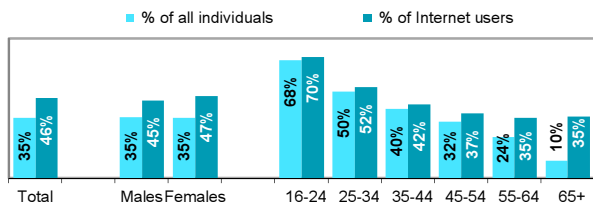


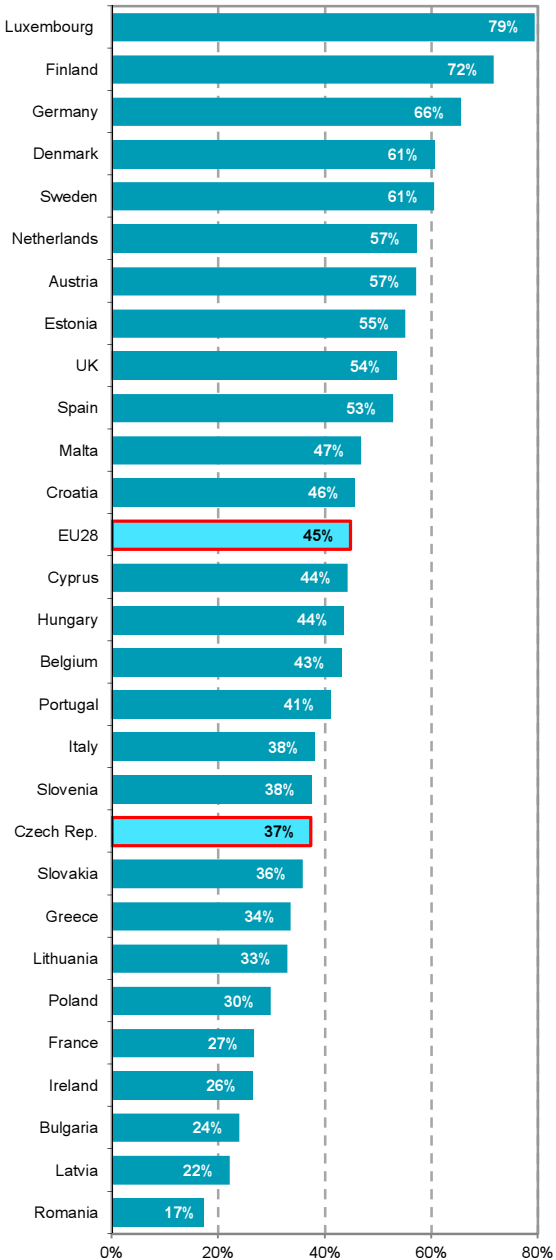
Figure F10 Consulting wikis to obtain knowledge on any subject by sex and age, 2015



Source: Czech Statistical Office, ICT use survey in households

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Figure F11 Individuals in EU countries consulting wikis to obtain knowledge on any subject, 2015



as a percentage of all individuals aged 16 to 74 in a given country

Source: Eurostat 2015

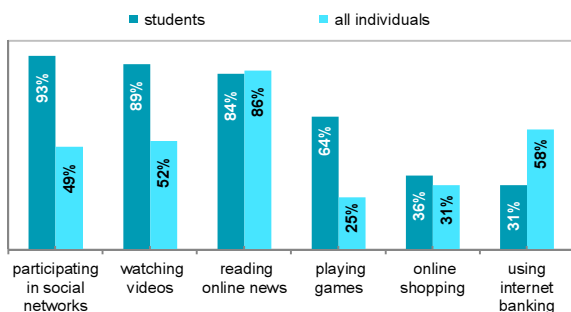
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Tab. F6 Students in the Czech Republic using the Internet; 2013-2015*

	Total	Males	Females
Total	98,2	98,3	98,0
using mobile connections	67,0	69,6	64,4
Usage of the Internet for selected activities:			
Participating in social networks	91,3	92,2	90,5
Playing music, movies or videos	87,5	88,9	86,0
Reading online news	82,8	83,6	81,9
Telephoning over the Internet	68,9	68,2	69,7
Playing games	62,4	76,7	47,7
Searching for travel-related information	60,1	56,4	63,9
Watching TV	47,5	51,5	43,4
Online shopping	34,9	35,2	34,6
Internet banking	30,1	30,0	30,3

as a percentage of all students aged 16+ in a given group

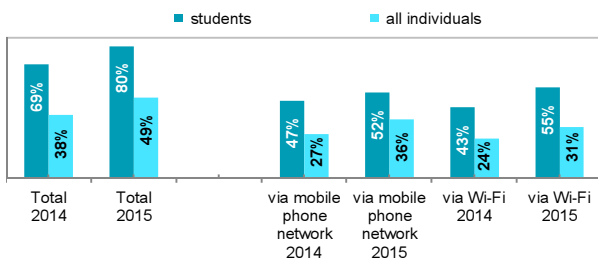
Figure F12 Students and individuals aged 16+ using the Internet for selected activities, 2013-2015*



*numbers are moving averages calculated for years 2013-2015

as a percentage of students and all individuals who have used the Internet in the last 3 months

Figure F13 Students and individuals aged 16+ accessing the Internet through a mobile phone

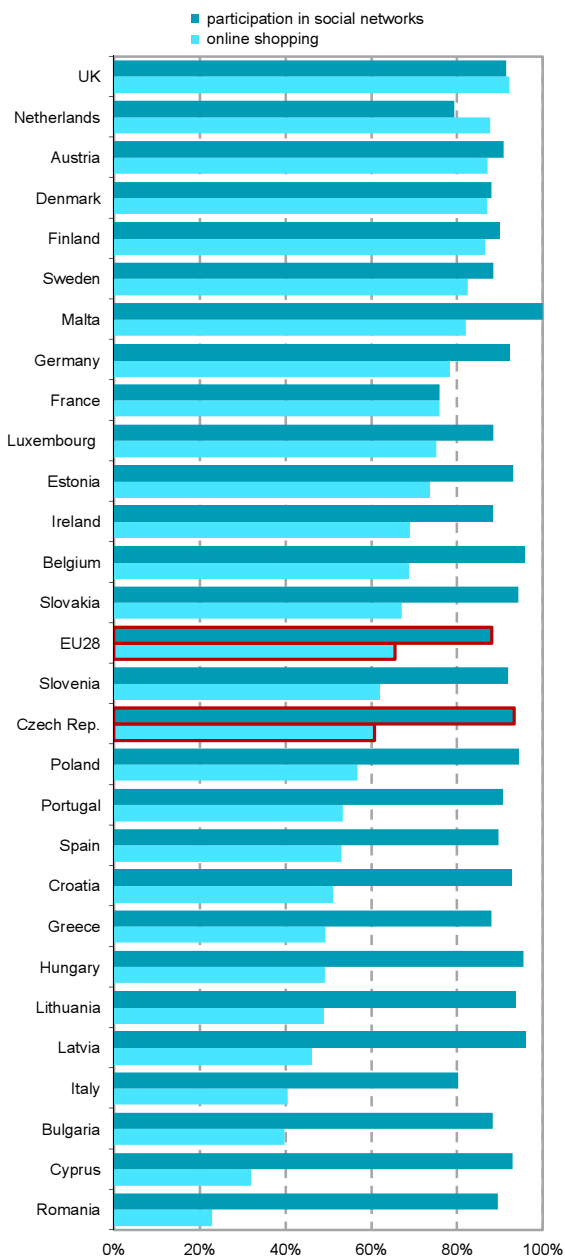


as a percentage of students and all individuals who have used the Internet in the last 3 months

Source: Czech Statistical Office, ICT use survey in households

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Figure F14 Students in EU countries using Social networks and Shopping online, 2015



as a percentage of students 16+ in a given country

Source: Eurostat 2015