

# 2<sup>nd</sup> Survey of Schools: ICT in Education

# **Technical Report**

### **TECHNICAL REPORT**

A study prepared for the European Commission

DG Communications Networks, Content & Technology by:

**Deloitte.** 





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### Glossary

### **Country codes**

ΑТ Austria ΙT Italy BE Belgium LT Lithuania BG LU Bulgaria Luxembourg Czech Republic CZ LV Latvia CY Cyprus ΜT Malta

DE Germany NL Netherlands DK Denmark NO Norway EE Estonia PL Poland PT EL Greece Portugal ES Spain RO Romania FΙ Finland SE Sweden FR France SI Slovenia HR Croatia SK Slovakia HU Hungary TR Turkey

IE Ireland UK United Kingdom

IS Iceland

### Abbreviations used

BYOD Bring Your Own Device
CEF Connecting Europe Facility

CPD Continuing professional development

DG CONNECT Directorate General for Communications Networks, Content & Technology

DG EAC Directorate General for Education, Youth, Sport and Culture

DigComp Digital competence framework

HECC Highly equipped and connected classrooms

HT Head teachers

ICT Information and communications technology

PA Parents

SELFIE Self-reflection tool for digitally capable schools
SITES Second Information Technology in Education Study

ST Students TC Teachers

### 1. Introduction

### 1.1 Study contextualisation and objectives

The **2<sup>nd</sup> Survey of Schools: ICT in Education** has two objectives:

- Objective 1: Benchmark progress in ICT in Schools to provide detailed and up-to-date information related to access, use and attitudes towards the use of technology in education by surveying head teachers, teachers, students and parents covering the EU28, Norway, Iceland and Turkey;
- 2) **Objective 2: Model for a 'highly equipped and connected classroom' -** to define a conceptual model for a 'highly equipped and connected classroom' (HECC), presenting three scenarios to describe different levels of a HECC and to estimate the overall costs to equip and connect an average EU classroom with advanced components of the HECC model.

Two separate reports are published concurrently, focusing on each of the two study objectives of the '2<sup>nd</sup> Survey of Schools: ICT in Education'<sup>1</sup>. The current publication relates to the **first objective** of the study, benchmarking progress in ICT in schools, and covers the detail of the design and implementation of the survey.

The first objective of the 2<sup>nd</sup> Survey of Schools: ICT in Education therefore benchmarks progress in of Information and Communication Technologies (ICT) in schools. The survey was carried out in 31 countries (EU28, Norway, Iceland and Turkey) by conducting interviews with head teachers, teachers, students and parents in three different ISCED levels (ISCED 1: primary schools; ISCED 2: lower secondary schools: ISCED 3: upper secondary schools). A range of different topics were covered, including (a) access to and use of digital technologies, (b) digital activities and confidence of teachers and students in their digital competence, (c) ICT related professional development of teachers, (d) digital home environment of students and (e) schools' digital policies, strategies and opinions. The current study builds upon the European Commission Survey of Schools: ICT in Education 2013.<sup>2</sup>

### 1.2 Purpose and structure of this report

This technical report covers the detail of the design and implementation of the 2<sup>nd</sup> Survey for ICT in Schools. It provides in-depth explanations of the processes used specifically concerning sampling, data collection, fieldwork results, and data treatment. The closing sections explore feedback collected by our partners on the ground responsible for fieldwork in each of the 31 countries, as well as recommendations for future waves of this study.

<sup>&</sup>lt;sup>1</sup> European Commission (2019). 2nd Survey of Schools: ICT in Education – Objective 1: Benchmark progress in ICT in schools. Luxembourg: European Commission. doi: 10.2759/23401; European Commission (2019). 2nd Survey of Schools: ICT in Education – Objective 2: Model for a 'highly equipped and connected classroom'. Luxembourg: European Commission. doi: 10.2759/831325.

More information on the 1<sup>st</sup> Survey of Schools: ICT in Education can be found at <a href="http://ec.europa.eu/information-society/newsroom/image/document/2016-20/surveyofschoolsictineducation-15585.pdf">http://ec.europa.eu/information-society/newsroom/image/document/2016-20/surveyofschoolsictineducation-15585.pdf</a>

# 2. Sampling design

### 2.1 Sample frames

Sample frames were collected by Ipsos' network partners in each respective country (see Table 1). The school sample was based on a two-stage stratified cluster sample design, in order to ensure the representativeness of the sample (i.e. to ensure that the structure of the sample corresponds to the population by key stratification variables). At the first stage, a sample of schools was selected from each ISCED level, with their probability of selection proportional to the number of students in the target grade of that school (PPS method). Where it was not possible to obtain numbers of students in the target grade, the school's probability of selection was deducted based on available information such as the overall school size, or failing this the schools were selected with equal probability.

Prior to selection, the sampling frame for each ISCED level within each country was sorted by pre-determined stratification variables such as to ensure that the sample was an accurate representation of the full sample frame.

Within each sample, a number of reserve schools were identified (up to 9 reserve schools for one selected school). These schools were identified as reserve in the event that the initially selected school refused to participate or did not respond to the invitation to partake in the survey.

**Table 1- Network partner by country** 

Country	Notwork partner
Country	Network partner
Austria	Ipsos
Belgium	Ipsos
Bulgaria	Ipsos
Croatia	Ipsos
Cyprus	Pulse
Czech Republic	Ipsos
Denmark	DMA Research
Estonia	Saar Poll
Finland	Taloustutkimus
France	Ipsos
Germany	Ipsos
Greece	Ipsos
Hungary	Ipsos
Iceland	University of Iceland
Ireland	Ipsos
Italy	Ipsos
Latvia	SKDS
Lithuania	RAIT
Luxembourg	Ipsos
Malta	Miscomalta
Norway	Ipsos
Netherlands	Ipsos
Poland	Ipsos
Portugal	Ipsos

Romania	Ipsos
Slovakia	Ipsos
Slovenia	Ipsos
Spain	Ipsos
Sweden	Ipsos
Turkey	Ipsos
UK	Ipsos

### 2.1.1 Quality of email contact details

Despite measures being taken to provide as robust sample frames as possible, it is important to note that many of them did not include emails for the full universe of schools, and so not all schools could be contacted. In addition, at the contact stage it was found that each of them contained a number of non-valid email addresses. The proportion of missing emails and non-valid email addresses varied by country, as shown in the table below.

Table 2- Missing and non-valid email addresses by country

Country	% of schools within sample frame without email address	Schools within sample frame with email addresses	Total "unique" invitations sent to school head teachers	Of those, number of non-valid email addresses	Non-valid email addresses (%)
Austria	0%	5556	5530	965	17%
Belgium	6%	5650	5586	773	14%
Bulgaria	<1%	2322	2305	51	2%
Croatia	<1%	1280	1277	42	3%
Cyprus	0%	449	449	4	1%
Czech Republic	0%	5845	5815	353	6%
Denmark	0%	3217	3163	54	2%
Estonia	0%	568	554	14	3%
Finland	0%	2783	2672	214	8%
France	98%*	47265	4535	34	1%
Germany	21%	30558	4936	248	5%
Greece	<1%	7853	7850	19	0%
Hungary	0%	8320	5837	310	5%
Iceland	0%	186	184	0	0%
Ireland	14%	3413	3407	12	0%
Italy	0%	38820	24263	438	2%
Latvia	1%	814	812	78	10%

Lithuania	0%	1231	1228	74	6%
Luxembourg	2%	192	191	5	3%
Malta	1%	147	142	7	5%
Norway	N/A	3381	2133	16	1%
Netherlands	23%	11668	11168	1212	11%
Poland	N/A	29740	5369	159	3%
Portugal	8%	48843	2885	340	12%
Romania	0%	5302	5293	228	4%
Slovakia	0%	2927	2903	156	5%
Slovenia	1%	598	598	12	2%
Spain	0%	18533	3443	110	3%
Sweden	0%	5026	3511	437	12%
Turkey	N/A	47057	2434	273	11%
UK	10%	21583	21495	766	4%

<sup>\*</sup>In France, considering the extremely high level of missing email addresses from the sample frame, the network partner for France was requested to populate the sample with email addresses.

Regarding the countries where no information is provided in the above table concerning the number of missing email addresses:

- In Norway and Poland, a postal approach was initially used. School postal addresses were included in the sample frames acquired by each country's respective network partner. On seeing that a postal approach was obtaining low response rates, an online approach was opted for, and email addresses of headteachers were obtained through online desk research.
- In Turkey, the network partner (Ipsos Turkey) obtained schools email addresses by calling the schools in the sample.

### 2.2 School selection

The survey aimed to target 100 schools from each ISCED level in each country (400 schools per country). To maximise the numbers of responding schools in each ISCED level the schools were asked to participate in all the ISCED levels they covered. Within each school/level, the aim was to survey one teacher from ISCED 1, and 3 teachers from ISCED levels 2, 3A, and 3B (for ISCED levels 2 and 3A, one each from mathematics, science, and the main language of the country, and for ISCED 3B, the three teachers with the most instructional hours). In small countries such as Malta, Cyprus, Estonia, Luxemburg, etc, smaller quotas had to be adopted due to the limited number of schools available to survey within the country. A more detailed understanding of ISCED classifications can be found below:

<sup>&</sup>lt;sup>3</sup> In Portugal, a large proportion of schools belonged to "SEDE" groups- these were groups of schools which all belonged to one umbrella organisation, and could only be contacted via one email address. As such, the number of contacted SEDE groups was lower than the number of individual schools.

- ISCED 1: Primary education. Programmes at this level are typically designed to provide students with fundamental skills in reading, writing and mathematics (i.e. literacy and numeracy) and establish a solid foundation for learning and understanding core areas of knowledge, personal and social development, in preparation for lower secondary education. Age is typically the only entry requirement at this level. The customary or legal age of entry is usually not below 5 years old nor above 7 years old. The level typically lasts six years, although its duration can range between four and seven years.
- ISCED 2: Lower secondary education. Programmes at this level are typically designed to build on the learning outcomes from ISCED level 1. Students enter ISCED level 2 typically between ages 10 and 13 (age 12 being the most common).
- ISCED 3: Upper secondary education. Programmes at this level are typically designed to complete secondary education in preparation for tertiary education or provide skills relevant to employment, or both. Pupils enter this level typically between ages 14 and 16. Within ISCED level 3, programmes can be split between ISCED 3A (general) and ISCED 3B (vocational).

Table 3- Overview of quotas by survey type

	ISCED 1	ISCED 2	ISCED 3A (Academic)	ISCED 3B (Vocational)
Schools	N=100	N=100	N=100	N=100
Teachers	N=1	N=1 mathematics teacher  N=1 science teacher  N=1 language teacher	N=1 mathematics teacher  N=1 science teacher  N=1 language teacher	N=3 teachers with the highest number of instructional hours
Students	N=0	N=All students within one randomly selected class per ISCED level	N=All students within one randomly selected class per ISCED level	within one randomly selected class
Parents	N=1 parent from each selected class	N=1 parent from each selected class	N=1 parent from each selected class	

As fieldwork progressed, changes to the sampling methodology were made in order to address the gaps in response rates that were being observed. As such, in nearly all countries, sampling methodology changed from a PPS approach to a census approach. The table below specifies which final approach was used in each country.

**Table 4- Sampling methodology by country** 

Austria Census Belgium Census Bulgaria Census Croatia Census Cyprus Census Czech Republic Census Estonia Census Finland Census France PPS Germany PPS Greece Census Italy Census Latvia Census Lithuania Census Lithuania Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Romania Census Slovakia Census Slovakia Census Slovenia Census Spain PPS Sweden Census Cens	Country	Sampling method using
Bulgaria Census Croatia Census Cyprus Census Czech Republic Census Estonia Census Estonia Census Finland Census France PPS Germany PPS Greece Census Hungary Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census PPS Portugal Census Slovakia Census Spain PPS Sweden Census	Austria	Census
Croatia Census Cyprus Census Czech Republic Census Denmark Census Estonia Census Finland Census France PPS Germany PPS Greece Census Hungary Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Slovakia Census Slovakia Census Spain PPS Sweden Census	Belgium	Census
Cyprus Czech Republic Czech Republic Census Census Estonia Census Finland Census France PPS Germany PPS Greece Census Hungary Census Ireland Census Italy Census Lithuania Census Luxembourg Malta Census Norway PPS Netherlands Poland PPS Portugal Romania Slovakia Spain PPS Sweden Census	Bulgaria	Census
Czech Republic  Denmark  Census  Estonia  Census  Finland  Census  France  PPS  Germany  PPS  Greece  Census  Hungary  Census  Ireland  Census  Ireland  Census  Italy  Census  Latvia  Census  Lithuania  Census  Luxembourg  Census  Malta  Census  Norway  PPS  Netherlands  Census  Romania  Census  Slovakia  Census  Slovenia  Spain  PPS  Sweden  Census	Croatia	Census
Denmark Estonia Census Finland Census France PPS Germany PPS Greece Census Hungary Census Ireland Census Italy Census Latvia Latvia Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Romania Census Slovakia Census Slovenia Spain PPS Sweden Census	Cyprus	Census
Estonia Census Finland Census France PPS Germany PPS Greece Census Hungary Census Iceland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Slovakia Census Slovenia Census Slovenia Census Sweden Census France PPS Census	Czech Republic	Census
Finland Census France PPS Germany PPS Greece Census Hungary Census Iceland Census Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Norway PPS Netherlands Census Poland PPS Portugal Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Denmark	Census
France Germany PPS Greece Census Hungary Census Iceland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Norway PPS Netherlands Poland PPS Portugal Romania Slovakia Slovenia Spain PPS Sweden Turkey PPS	Estonia	Census
Germany Greece Census Hungary Census Iceland Census Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Poland PPS Portugal Romania Census Slovakia Census Spain PPS Sweden Census	Finland	Census
Greece Census Hungary Census Iceland Census Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	France	PPS
Hungary Iceland Census Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Poland PPS Portugal Romania Census Slovakia Slovakia Spain PPS Sweden Census PPS Census Slovakia Census Spain PPS Sweden Census Turkey PPS	Germany	PPS
Iceland Census Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Greece	Census
Ireland Census Italy Census Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Hungary	Census
ItalyCensusLatviaCensusLithuaniaCensusLuxembourgCensusMaltaCensusNorwayPPSNetherlandsCensusPolandPPSPortugalCensusRomaniaCensusSlovakiaCensusSloveniaCensusSpainPPSSwedenCensusTurkeyPPS	Iceland	Census
Latvia Census Lithuania Census Luxembourg Census Malta Census Norway PPS Netherlands Census Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Ireland	Census
Lithuania Census  Luxembourg Census  Malta Census  Norway PPS  Netherlands Census  Poland PPS  Portugal Census  Romania Census  Slovakia Census  Slovakia Census  Spain PPS  Sweden Census  Turkey PPS	Italy	Census
Luxembourg  Malta  Census  Norway  PPS  Netherlands  Census  Poland  PPS  Portugal  Census  Romania  Census  Slovakia  Census  Slovenia  Census  Spain  PPS  Sweden  Census  Census  Census  PPS  Census  PPS  PPS	Latvia	Census
MaltaCensusNorwayPPSNetherlandsCensusPolandPPSPortugalCensusRomaniaCensusSlovakiaCensusSloveniaCensusSpainPPSSwedenCensusTurkeyPPS	Lithuania	Census
Norway PPS Netherlands Census Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Luxembourg	Census
NetherlandsCensusPolandPPSPortugalCensusRomaniaCensusSlovakiaCensusSloveniaCensusSpainPPSSwedenCensusTurkeyPPS	Malta	Census
Poland PPS Portugal Census Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Norway	PPS
Portugal Census  Romania Census  Slovakia Census  Slovenia Census  Spain PPS  Sweden Census  Turkey PPS	Netherlands	Census
Romania Census Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Poland	PPS
Slovakia Census Slovenia Census Spain PPS Sweden Census Turkey PPS	Portugal	Census
Slovenia Census Spain PPS Sweden Census Turkey PPS	Romania	Census
Spain PPS Sweden Census Turkey PPS	Slovakia	Census
Sweden Census Turkey PPS	Slovenia	Census
Turkey PPS	Spain	PPS
	Sweden	Census
UK Census	Turkey	PPS
	UK	Census

### 2.3 Class selection

Once schools had been selected, school head teachers were sent an invitation email asking them to participate in the survey (with the exception of Poland and Norway, where

invitation letters containing a unique link and password to the registration survey were sent by post). If a school head teacher agreed to participate, he/she was requested to fill out a short registration survey and provide the contact details of a designated "school coordinator."

This school coordinator was, in turn, requested to provide information on the different teachers and classes taught within the school. Specifically, the school coordinator was asked to provide information on classes in "the last grade of each ISCED level." This approach was used throughout the 31 countries in order to ensure consistently in the ages and academic levels of the students surveyed. It is important to note, however, that vocational courses in certain countries see students' ages ranging widely, making it challenging to identify an average age. The table below provides information on the theoretical average age of students in the "last grade" of each ISCED level. This average age corresponds roughly to that which was targeted in the 1st Survey of Schools: ICT in education (in most countries, the targeted average age in the previous wave was 9.5 years for ISCED 1; 13.5 years for ISCED 2, and 16.5 years for ISCED 3). ISCED levels where we note a significant difference between this wave's average age and that of the previous wave have been highlighted through a footnote.

Table 5- Average age of students by country by ISCED level<sup>4</sup>

Country	ISCED 1	ISCED 2	ISCED 3A	ISCED 3B
Austria	9.5	13.5	17.5	17
Belgium	11.5	14.5	17.5	17.5
Bulgaria	10.5	12.5	16.5	16.5
Croatia	9.5	13.5	17.5	17.5
Cyprus	11.5	14.5	17.5	17.5
Czech Republic	10.5	14.5	18.5	16.5
Denmark	12.5	15.5	18.5	21.5
Estonia	11.5	14.5	17.5	17.5
Finland	12	15	18	18
France	10.5	14.5	17.5	17.5
Germany	9.5	15.5	18.5	18.5
Greece	11.5	14.5	17.5	17.5
Hungary	9.5	13.5	18.5	18.5
Iceland	11.5	15.5	19.5	19.5
Ireland	11.5	14.5	17.5	18.5
Italy	10.5	13.5	18.5	18
Latvia	11.5	15.5	18.5	19.5
Lithuania	10	16.5	18.5	20
Luxembourg	10.5	14.5	18.5	18.5
Malta	10.5	13.5	15.5	18

<sup>&</sup>lt;sup>4</sup> Average ages by ISCED level have been calculated using the European Commission's "The Structure of the European Education Systems 2014/2015" with input from our Network Partners in each country.

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Norway	12.5	15.5	18.5	19.5
Netherlands	11.5	14.5	17.5	19
Poland	11.5	14.5	17.5	18.5
Portugal	1.5	14	17	17
Romania	10.5	14.5	17.5	17.5
Slovakia	9.5	15	18.5	16.5
Slovenia	12	15	18	17.5
Spain	11.5	13.5	16.5	16.5
Sweden	11.5	14.5	17.5	17.5
Turkey	10	14	18	18
UK	10.5	13.5	17.5	17.5

Within the student survey, we collected information on whether the student surveyed was born before the year 2000, in 2000, 2001, 2002, 2003, 2004, 2005, or after 2005 (ST19Q01). Based on the weighted results, we can provide information on the year in which students in ISCED levels 2, 3A, and 3B were born (ISCED level 1 students not having been interviewed).

NB: Missing countries are those which have been excluded from analysis due to too few completed surveys- see section 2.4 below.

Table 6- Year of birth of surveyed students- ISCED 2 (in % of students)

	Base: All students	Before 2000	2000	2001	2002	2003	2004	2005	After 2005	Average age
Total	27251	2	0	3	16	26	44	4	2	13.785
Austria	570	4	1	1	8	29	51	0	0	13.41
Belgium	589	0	1	8	23	59	5	0	0	14.29
Bulgaria	1293	2	1	1	1	1	61	10	17	12.45
Croatia	2528	1	0	0	2	62	24	4	3	13.57
Cyprus	83	1	0	2	4	92	0	0	1	14.59
Czech Republic	2647	3	1	2	42	39	1	0	4	13.82
Denmark	999	4	4	23	58	2	2	0	1	14.9
Estonia	1574	1	1	18	68	4	3	1	1	15.095
Finland	745	1	1	4	81	5	3	0	1	14.82
Hungary	3203	1	1	1	7	56	20	4	7	13.735
Iceland	115	0	0	0	99	0	0	0	0	15.345

Italy	518	3	0	0	1	3	85	6	0	13.37
Latvia	1509	1	1	8	43	22	18	2	1	14.33
Lithuania	2751	3	4	46	7	27	2	1	2	14.47 <sup>5</sup>
Malta	82	0	0	0	0	0	0	81	19	12.31
Portugal	907	1	1	6	16	63	4	4	1	14.12
Romania	1585	0	0	1	6	74	13	0	3	13.925
Slovakia	1802	2	0	3	38	47	2	1	2	14.195
Slovenia	785	2	0	1	6	81	2	3	2	14.085
Spain	1249	1	1	3	13	53	18	7	1	13.975
Sweden	396	2	0	5	83	1	5	0	1	14.995

<sup>&</sup>lt;sup>5</sup> Note that this age does not coincide with that indicated by the European Commission. As explained by our network partner in Lithuania, many schools in the country do not have classes from "the last year" of ISCED level 2, and as such the survey was conducted with students from a younger class.

Table 7- Year of birth of surveyed students- ISCED 3A (in % of students)

	Base: All Students	Before 2000	2000	2001	2002	2003	2004	2005	After 2005	Average age
Total	14084	72	19	2	2	0	0	0	0	17.285
Belgium	448	29	63	4	2	0	0	0	0	17.36
Bulgaria	754	54	22	3	0	4	2	1	4	15.77
Croatia	647	72	23	0	0	0	1	1	2	17.835
Cyprus	37*	1	98	0	0	0	0	0	0	17.335
Czech Republic	1309	92	0	0	0	0	0	1	1	17.26
Denmark	417	95	0	0	0	0	0	0	2	17.805
Estonia	853	93	2	0	0	0	0	0	0	17.555
Finland	671	42	53	3	0	0	0	0	0	17.54
Hungary	1203	72	12	3	4	1	0	0	1	16.795
Iceland	45*	92	3	0	0	0	0	0	0	17.545
Italy	642	79	16	1	0	0	0	0	0	17.58
Latvia	1091	54	17	21	1	0	0	0	1	16.7
Lithuania	1530	70	18	3	2	0	0	0	1	17.02 <sup>6</sup>
Malta	35*	0	0	3	36	0	61	0	0	14.31
Norway	160	64	20	11	0	0	0	0	0	17.155
Portugal	481	20	73	2	3	0	0	0	0	17.27
Romania	889	69	20	5	2	0	0	0	1	17.515
Slovakia	1252	90	2	0	0	0	0	1	1	17.24
Slovenia	177	91	1	0	0	0	0	0	0	17.01
Spain	1443	11	45	9	32	0	0	0	0	16.355

<sup>6</sup> Note that this age does not coincide with that indicated by the European Commission. As explained by our network partner in Lithuania, many schools in the country do not have classes from "the last year" of ISCED level 3A, and as such the survey was conducted with students from a younger class.

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Table 8- Year of birth of surveyed students- ISCED 3B (in % of students)

	Base: All Students	Before 2000	2000	2001	2002	2003	2004	2005	After 2005	Average age
Total	5106	64	21	5	2	1	0	0	2	17.025
Austria	316	68	16	5	2	1	0	0	1	16.775
Belgium	189	52	32	6	2	1	0	0	2	16.895
Bulgaria	536	61	11	10	4	3	0	0	2	16.145
Croatia	1113	46	40	6	1	0	0	0	2	16.885
Denmark	25*	84	9	0	0	0	0	0	0	17.115
Estonia	46*	96	0	0	0	0	0	0	0	17.76
Finland	77	78	18	0	0	0	0	0	2	17.81
Hungary	782	66	19	3	2	1	0	0	4	16.945
Lithuania	175	68	10	3	0	0	0	1	2	15.18
Norway	136	89	10	0	0	0	0	0	1	18.33
Portugal	495	55	33	5	2	0	0	1	1	17.325
Romania	457	16	64	13	4	1	0	0	1	17.185
Slovakia	238	58	25	3	0	0	0	0	4	16.06
Slovenia	181	64	17	5	1	0	0	1	3	16.265 <sup>7</sup>
Spain	340	80	11	4	0	0	0	0	1	17.5

<sup>\*</sup>Please note that a small base size may impact the robustness of the results

Once the relevant class information had been provided, an automated system randomly selected the teacher(s) and class(es) to be invited to participate. Thereafter, the school coordinator's role was to:

- Hand out and collect signed parent consent forms where necessary (this varied on a country by country basis depending on national legislation)
- Arrange for the students of the selected class(es) to take the student survey, and hand out unique links and passwords to each student

Note that this age does not coincide with that indicated by the European Commission. As explained by our network partner in Slovenia, vocational courses in the country can be either 2 years, 3 years, or 4 years, which explains why there may be a discrepancy between the theoretical average age of students in the last year of ISCED 3B with the average age of students surveyed.

- Hand out parent invitation letters to the students in the selected class(es)<sup>8</sup>, for them to pass on to their parents. Each of these letters contained a unique link and password which granted access to the parent survey
- Follow up with teachers who had not yet completed the teacher survey using the survey monitoring platform

Selected teachers were sent an email invitation, inviting them to complete their survey.

### 2.4 Exclusions

While sample frames were intended to represent a complete coverage of the target population, certain types of schools had to be excluded as they did not fall within the scope of the survey. These schools were:

- Schools for adults
- Schools for children with mental or physical disabilities
- Schools with cirruculums that fell outside of the remit of the study, such as art schools or dance schools
- Schools where all or most classes were taught in a language other than the national language (for example, Russian language schools in Estonia)

<sup>&</sup>lt;sup>8</sup> Unlike the 2013 wave, the 2017 Study also included a survey addressed to parents, the aim of which was to collect information on parents' use of and attitude towards ICT in supporting the education of their children.

### 3. Data collection

### 3.1 Translations

As far as possible, translations were recycled from the previous wave of the study. Certain amends were made where needed, notably to include new questions and items within specific questions. Once the master English questionnaires had been finalised, these were translated into the local language(s) of each country by the London-based agency Language Connect, and then checked by the local agency responsible for fieldwork in each country. A table summarising the language(s) into which the questionnaires were translated can be found below.

Table 9- Language(s) used in each country

Country	Language(s)
Austria	German
Belgium	French/ Dutch
Bulgaria	Bulgarian
Croatia	Croatian
Cyprus	Greek
Czech Republic	Czech
Denmark	Danish
Estonia	Estonian
Finland	Finnish/ Swedish
France	French
Germany	German
Greece	Greek
Hungary	Hungarian
Iceland	Icelandic
Ireland	English
Italy	Italian
Latvia	Latvian
Lithuania	Lithuanian
Luxembourg	German/ French
Malta	Maltese/ English
Norway	Norwegian
Netherlands	Dutch
Poland	Polish
Portugal	Portuguese
Romania	Romanian
Slovakia	Slovakian

Slovenia	Slovenian
Spain	Spanish
Sweden	Swedish
Turkey	Turkish
UK	English

### 3.2 Survey administration

All surveys were completed online, with an estimated duration of 5 minutes for the registration survey, and 20 minutes each for the head teacher, school coordinator, parent, student, and teacher surveys.

Following the completion of fieldwork, we were able to estimate the actual time spent completing each survey. This duration - calcutated as an average across all coutries - is summarised in the table below:

**Table 10- Calculated survey duration (average across countries)** 

Head teacher survey	School coordinator survey	Parent survey	Student survey	Teacher survey
28 minutes	26 minutes	15 minutes	18 minutes	24 minutes

### 3.3 Germany application process

In Germany, the legal requirements to conduct a survey varied on a regional basis. As such, some regions (laenders) required ministry approval while others did not. As such, applications were submitted to each laender individually by our network partner in the field (Ipsos Germany), and outcomes were observed on a laender by laender basis.

### 3.4 Maximising response rates

### 3.4.1 Reminder emails

In order to maximise response rate, selected schools were sent regular reminder emails asking them to participate. Where a school was already registered, the school coordinator received reminder emails asking them to use the monitoring platform in order to identify which surveys within the school had yet to be completed. Similarly, the reminder emails were sent to the selected teacher(s).

Table 7- Initial reminder schedule by survey type

		3 weeks after receiving invitation	
Head teacher	1 <sup>st</sup> reminder is sent	2 <sup>nd</sup> reminder is sent	3 <sup>rd</sup> reminder is sent
School coordinator	1 <sup>st</sup> reminder is sent	2 <sup>nd</sup> reminder is sent	3 <sup>rd</sup> reminder is sent

Teacher		2 <sup>nd</sup> reminder sent to the teacher and the school coordinator	the teacher and
Student		2 <sup>nd</sup> reminder to school coordinator	
Parents	1 <sup>st</sup> reminder sent to school coordinator		

In order to boost response rates, this reminder schedule was modified during the fieldwork period. The initial 2-week period before sending the first reminder was shortened to 1 week. Moreover, samples from certain countries were re-activated, resulting in certain schools receiving more than 3 reminders. This was the case for schools in: BE, BG,CY,CZ,DE,DK,EE,ES,FI,FR,HR,HU,IE,IS,IT,LT,LV,MT,NL,PT,RO,SE,SI,SK,UK.

**Table 8- Reminders sent by survey type** 

	Registration survey reminders	Head teacher reminders	School coordinator reminders	Teacher reminders (all ISCED levels combined)
Total	586592	7093	11421	10088
Austria	8560	47	513	270
Belgium	20462	390	495	506
Bulgaria	13165	422	642	443
Croatia	4968	321	533	753
Cyprus	2830	68	135	47
Czech Republic	24207	359	586	515
Denmark	14659	218	304	291
Estonia	2424	202	204	571
Finland	14054	365	460	469
France	33667	350	407	235
Germany	17586	92	211	0
Greece	8753	38	165	3
Hungary	22673	248	488	546
Iceland	838	54	42	143
Ireland	18263	235	345	46

Italy	119096	414	1181	316
Latvia	3920	301	294	769
Lithuania	4592	372	329	713
Luxembourg	162	15	12	0
Malta	575	81	87	119
Norway	6690	14	199	108
Netherlands	37375	168	412	101
Poland	3987	23	79	160
Portugal	15871	413	384	522
Romania	24645	485	713	887
Slovakia	6850	421	815	409
Slovenia	3206	129	125	211
Spain	22690	507	615	639
Sweden	20133	211	269	230
Turkey	7877	11	117	25
UK	101814	119	260	41

### 3.4.2 Reminder calls

In countries where we predicted seeing low response rates, telephone follow-up calls were made from a call-center in the Netherlands to schools after they had received the invitation by email. The countries in which this procedure was set up can be found below, as well as the dates during which these reminder calls took place.

- France (*April 19<sup>th</sup>- May 15<sup>th</sup> 2018*)
- Germany (April 19<sup>th</sup>- July 4<sup>th</sup> 2018)
- Italy (May 3<sup>rd</sup>-May 15<sup>th</sup> 2018)
- Netherlands (February 22<sup>nd</sup>- May 3<sup>rd</sup> 2018)
- Spain (February 27<sup>th</sup>- May 3<sup>rd</sup> 2018)

The following table provides an overview of the the achieved outcome of these reminder calls.

**Table 13- Outcome of reminder calls** 

	France	Germany	Italy	Netherlands	Spain
Total sample	1982	4266	4369	3931	2602
Total number of schools called	1975	3746	1152*	3700	2596
Reminder questionnaires completed by call center	306	1036	174	1857	1655
Refusals	64	419	21	625	103
Wrong numbers	155	33	31	132	53
Wrong school name	14	14	1	54	3

<sup>\*</sup>In Italy, a total of 2318 schools were removed from the total sample of 4369 schools. These schools were ISCED 1, and considering high response rate of ISCED 1 schools in the country it was decided to focus only on ISCED 2 and 3. As such, these were not contacted.

### 3.5 Fieldwork start dates

The target start date for fieldwork in all countries was early November 2017, however a number of set-backs meant that fieldwork was delayed in certain countries. The primary reasons for delay were issues with sample frames, getting all surveys approved for launch by network partners, and certain countries requiring ministry approval in order to conduct the study. The table below provides an overview of fieldwork start dates by country.

Table 14- Fieldwork start date by country

	Fieldwork start date
Austria	04/04/2018
Belgium	24/11/2017
Bulgaria	10/11/2017
Croatia	09/11/2017
Cyprus	7/2/2018 for ISCED 1, 2, 3A 16/03/2018 for ISCED 3B
Czech Republic	16/11/2017
Denmark	02/11/2017
Estonia	24/11/2017
Finland	30/11/2017
France	07/02/2018
Germany	First laender: 05/01/2018
Greece	27/04/2018
Hungary	07/11/2017
Iceland	01/11/2017
	*** 'grunnskólar' schools in Reykjavik: 21/03/2018
Ireland	01/11/2017
Italy	24/11/2017
Latvia	08/11/2017
Lithuania	28/11/2017
Luxembourg	23/03/2018
Malta	16/11/2017
Norway	Launch by post: 27/11/2017 Launch by email: 22/03/2018
Netherlands	03/11/2017
Poland	Launch by post: 03/01/2018 Launch by email: 27/04/2018
Portugal	16/01/2017
Romania	01/11/2017

Slovakia	13/11/2017
Slovenia	06/11/2017
Spain	10/11/2017
Sweden	01/11/2017
Turkey	14/02/2018
UK	28/11/2017

## 3.6 Fieldwork progress

The following tables provide information on weekly fieldwork progress from mid-November 2017 until end of May 2018. Progress is measured per ISCED level:

- For ISCED 1, progress is measured in number of participating teachers
- For ISCED 2,3A, and 3B, progress is measured in number of participating classes

**Table 15- Fieldwork progress** 

	ISCED 1- PART 1	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France
	17/11/2017	0	0	2	9	1	0	0	0	0	0
	24/11/2017	0	0	4	18	1	0	1	0	0	0
	01/12/2017	0	0	7	29	1	1	3	4	0	0
	08/12/2017	0	0	11	36	2	3	3	7	0	0
(in numbers of participating teachers)	15/12/2017	0	1	14	42	3	5	6	15	0	0
ach	22/12/2017	0	1	14	47	3	6	8	15	1	0
g te	12/01/2018	0	2	21	60	3	8	12	23	2	0
ıting	19/01/2018	0	3	30	79	4	10	16	34	4	0
cipa	26/01/2018	0	6	33	90	4	12	19	42	6	0
arti	02/02/2018	0	7	36	98	4	12	22	46	8	0
of po	09/02/2018	0	13	44	109	4	21	26	51	14	0
rs o	16/02/2018	0	15	44	119	5	28	27	58	15	0
nbe	23/02/2018	0	23	45	130	7	43	29	66	21	0
nur	02/03/2018	0	25	46	132	9	57	32	68	25	0
(in	09/03/2018	0	27	52	138	11	67	38	72	33	0
0 1	16/03/2018	0	29	54	141	13	73	40	77	44	1
CEI	23/03/2018	0	33	59	144	14	85	40	79	52	2
SI	02/04/2018	0	38	64	151	16	94	42	83	61	2
Progress - ISCED 1	06/04/2018	1	38	64	151	16	100	44	84	66	2
ogre	13/04/2018	10	38	64	162	16	109	47	87	71	3
Pro	20/04/2018	24	49	64	165	16	119	48	91	77	3
	27/04/2018	33	57	73	168	23	123	48	94	82	3
	04/05/2018	34	59	76	168	23	126	48	94	83	3
	11/05/2018	40	61	77	171	23	128	48	95	89	3
	18/05/2018	56	66	80	172	23	129	48	96	94	3
	25/05/2018	65	71	81	172	24	129	48	97	98	4

	ISCED 1- PART 2	Germany	Greece	Hungary	Iceland	Ireland	Italy	Latvia	Lithuania	Luxembourg	Malta
	17/11/2017	0	0	6	0	0	0	2	0	0	0
	24/11/2017	0	0	8	0	0	0	4	0	0	1
	01/12/2017	0	0	9	0	1	0	6	2	0	1
<u> </u>	08/12/2017	0	0	17	0	1	0	10	9	0	1
her	15/12/2017	0	0	19	0	1	1	13	15	0	1
eac	22/12/2017	0	0	21	0	1	1	18	18	0	2
ng t	12/01/2018	0	0	26	0	1	2	21	32	0	3
atir	19/01/2018	1	0	28	0	4	2	46	34	0	4
of participating teachers)	26/01/2018	1	0	31	0	11	2	49	49	0	5
part	02/02/2018	1	0	37	3	13	2	56	57	0	7
of	09/02/2018	2	0	41	4	14	3	60	75	0	8
(in numbers	16/02/2018	2	0	45	5	15	4	61	86	0	9
amr	23/02/2018	2	0	58	6	18	7	67	104	0	12
וו ר	02/03/2018	3	0	63	9	22	11	65	122	0	12
	09/03/2018	3	0	71	9	25	12	65	131	0	12
	16/03/2018	3	0	75	9	27	16	66	134	0	13
SCE	23/03/2018	3	0	86	9	27	17	69	141	0	13
I - 9	02/04/2018	4	0	98	9	28	20	73	155	2	12
Progress - ISCED 1	06/04/2018	4	0	103	9	29	20	74	156	2	12
rogi	13/04/2018	5	0	149	9	34	25	77	162	2	13
<u> </u>	20/04/2018	5	0	179	10	38	31	80	171	2	13
	27/04/2018	5	0	194	11	40	39	82	175	3	13
	04/05/2018	5	2	197	11	41	39	83	175	3	13
	11/05/2018	6	9	206	11	45	48	86	176	3	13
	18/05/2018	6	14	211	12	49	56	91	176	3	14
	25/05/2018	6	19	211	12	54	66	95	176	3	15

ISCED 2- PART 1	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France
17/11/2017	0	0	3	3	0	0	1	0	0	0
24/11/2017	0	0	5	11	0	0	2	0	0	0
01/12/2017	0	0	6	25	0	1	4	2	0	0
08/12/2017	0	0	11	37	0	2	4	8	0	0
15/12/2017	0	0	13	52	0	4	5	17	0	0
22/12/2017	0	0	14	74	0	5	8	27	0	0
12/01/2018	0	0	21	75	0	7	10	29	1	0
19/01/2018	0	2	27	81	0	11	14	43	2	0
26/01/2018	0	3	32	98	0	16	18	56	4	0
02/02/2018	0	5	36	106	1	24	21	61	6	0
09/02/2018	0	7	44	123	1	32	28	70	8	0
16/02/2018	0	8	49	141	1	40	29	76	10	0
23/02/2018	0	11	52	151	1	47	35	90	12	1
02/03/2018	0	21	54	160	1	70	41	92	17	1
09/03/2018	0	22	59	167	1	78	44	93	19	2
16/03/2018	0	26	63	170	1	90	47	96	24	2
23/03/2018	0	27	69	173	1	97	55	102	29	3
02/04/2018	0	36	76	183	1	111	56	109	34	6
06/04/2018	0	36	76	183	1	114	58	111	38	8
13/04/2018	0	36	78	187	1	125	62	115	42	11
20/04/2018	4	36	83	192	1	139	65	117	47	11
27/04/2018	10	40	89	197	3	151	68	120	52	12
04/05/2018	11	40	91	197	4	153	68	121	52	12
11/05/2018	20	43	91	203	5	154	69	122	56	12
18/05/2018	25	46	92	206	6	154	70	126	60	12
25/05/2018	37	49	92	206	6	154	70	126	62	12

Progress ISCED 2- PART 2	Germany	Greece	Hungary	Iceland	Ireland	Italy	Latvia	Lithuania	Luxembourg	Malta
17/11/2017	0	0	1	0	0	0	4	0	0	0
24/11/2017	0	0	6	0	0	0	8	0	0	0
01/12/2017	0	0	12	0	1	0	17	1	0	0
08/12/2017	0	0	12	0	2	0	23	8	0	0
15/12/2017	0	0	15	0	2	0	43	15	0	0
22/12/2017	0	0	18	0	3	0	52	23	0	0
12/01/2018	0	0	29	0	3	0	55	35	0	0
19/01/2018	0	0	35	0	3	0	63	44	0	1
26/01/2018	0	0	38	1	3	0	71	62	0	2
02/02/2018	0	0	40	1	3	0	77	72	0	2
09/02/2018	0	0	42	3	3	1	87	88	0	2
16/02/2018	0	0	48	4	3	2	90	105	0	3
23/02/2018	0	0	64	7	3	3	93	110	0	3
02/03/2018	1	0	65	9	3	4	92	130	0	3
09/03/2018	2	0	68	9	3	4	93	143	0	3
16/03/2018	4	0	73	9	3	4	93	151	0	3
23/03/2018	4	0	80	9	3	5	96	160	0	3
02/04/2018	4	0	92	9	3	9	101	176	0	3
06/04/2018	4	0	94	9	3	9	101	176	0	3
13/04/2018	5	0	116	10	3	10	106	184	0	3
20/04/2018	6	0	156	10	3	10	111	195	0	3
27/04/2018	6	0	185	10	3	16	116	199	0	3
04/05/2018	6	0	192	10	4	18	117	200	0	3
11/05/2018	9	1	207	12	4	22	117	200	0	4
18/05/2018	13	3	220	12	4	27	122	201	0	5
25/05/2018	13	7	224	13	5	38	126	201	0	5

ISCED 2- PART 3	Norway	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	Turkey	UK
17/11/2017	0	0	0	0	2	1	1	1	0	0	0
24/11/2017	0	0	0	0	3	1	2	1	0	0	0
01/12/2017	0	0	0	0	3	3	5	1	0	0	0
08/12/2017	0	0	0	0	4	4	8	1	1	0	0
15/12/2017	0	0	0	0	8	7	9	1	2	0	0
22/12/2017	0	0	0	0	11	11	13	1	3	0	0
12/01/2018	0	0	0	0	11	12	13	2	3	0	0
19/01/2018	0	0	1	0	12	16	14	5	4	0	0
26/01/2018	0	0	3	1	15	24	18	8	6	0	0
02/02/2018	1	0	5	4	19	27	19	8	6	0	0
09/02/2018	1	0	8	7	21	33	25	8	6	0	0
16/02/2018	1	0	9	7	26	42	28	8	7	0	0
23/02/2018	1	0	11	9	32	45	30	14	8	0	0
02/03/2018	1	0	12	12	35	51	30	16	9	0	1
09/03/2018	1	0	12	12	35	51	30	17	9	0	2
16/03/2018	1	1	13	20	37	71	35	23	10	0	3
23/03/2018	1	1	13	29	43	75	39	31	12	1	3
02/04/2018	1	2	13	33	53	82	41	33	14	1	3
06/04/2018	1	2	13	34	53	84	42	33	15	1	3
13/04/2018	2	4	13	36	60	90	44	43	18	1	3
20/04/2018	4	6	13	41	75	102	48	52	21	1	3
27/04/2018	7	6	13	49	91	108	55	59	23	1	4
04/05/2018	7	6	13	52	92	116	55	60	23	1	4
11/05/2018	9	6	13	56	98	121	55	62	24	1	4
18/05/2018	9	6	16	58	108	128	56	67	24	1	5
25/05/2018	10	6	17	68	110	135	56	73	25	1	9

ISCED 3A- PART 1	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France
17/11/2017	0	0	1	2	0	0	5	0	0	0
24/11/2017	0	0	2	3	0	2	7	0	0	0
01/12/2017	0	0	3	6	0	2	7	1	0	0
08/12/2017	0	0	7	8	2	5	9	6	1	0
15/12/2017	0	0	10	11	2	6	10	12	1	0
22/12/2017	0	0	10	15	2	6	10	16	2	0
12/01/2018	0	0	11	15	2	10	12	20	6	0
19/01/2018	0	2	18	19	2	13	12	29	8	0
26/01/2018	0	3	19	21	2	17	14	32	11	0
02/02/2018	0	4	22	22	2	21	14	36	11	0
09/02/2018	0	7	26	26	2	22	14	42	20	0
16/02/2018	0	7	26	26	2	24	14	45	23	1
23/02/2018	0	9	28	26	3	34	15	49	24	1
02/03/2018	0	20	29	26	3	46	15	49	27	1
09/03/2018	0	23	30	27	3	51	15	49	28	1
16/03/2018	0	25	33	27	3	56	16	49	30	2
23/03/2018	0	27	36	28	4	58	16	52	30	4
02/04/2018	0	31	37	29	4	62	16	55	32	6
06/04/2018	0	31	37	29	4	63	17	55	32	6
13/04/2018	1	32	43	31	4	68	17	55	35	7
20/04/2018	8	34	44	33	4	75	18	56	42	7
27/04/2018	11	36	46	35	4	78	20	56	48	7
04/05/2018	12	36	47	35	4	78	21	56	49	7
11/05/2018	12	39	49	35	4	78	21	56	52	7
18/05/2018	13	40	50	37	4	78	21	56	55	7
25/05/2018	16	43	50	37	4	78	21	57	56	7

ISCED 3A- PART 2	Germany	Greece	Hungary	Iceland	Ireland	Italy	Latvia	Lithuania	Luxembourg	Malta
17/11/2017	0	0	1	0	0	0	2	0	0	0
24/11/2017	0	0	3	0	0	0	8	0	0	0
01/12/2017	0	0	4	0	1	0	18	0	0	0
08/12/2017	0	0	6	0	1	0	24	4	0	0
15/12/2017	0	1	8	0	1	0	31	8	0	0
22/12/2017	0	2	11	0	2	0	39	15	0	0
12/01/2018	0	2	16	0	2	1	43	20	0	0
19/01/2018	0	2	17	1	2	1	53	24	0	2
26/01/2018	0	2	17	1	2	1	59	35	0	2
02/02/2018	0	2	18	1	2	1	63	43	0	2
09/02/2018	0	2	25	2	2	1	68	47	0	2
16/02/2018	0	2	30	3	2	1	69	51	0	2
23/02/2018	0	2	36	3	2	4	71	51	0	3
02/03/2018	1	2	38	4	2	4	71	63	0	3
09/03/2018	2	2	38	4	2	5	71	68	0	3
16/03/2018	3	2	39	5	2	6	71	72	0	3
23/03/2018	4	2	40	5	2	8	71	81	0	3
02/04/2018	4	2	46	5	2	10	74	83	0	3
06/04/2018	4	2	46	6	2	10	74	83	0	3
13/04/2018	4	2	48	6	2	13	77	86	0	3
20/04/2018	4	2	54	6	2	16	81	90	0	3
27/04/2018	4	0	57	6	3	23	84	96	0	3
04/05/2018	5	2	57	6	3	26	84	96	0	3
11/05/2018	5	3	57	6	3	28	84	96	0	3
18/05/2018	6	3	58	6	3	34	90	96	0	4
25/05/2018	6	4	59	6	4	44	94	96	0	4

ISCED 3A- PART 3	Norway	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	Turkey	UK
17/11/2017	0	0	0	0	2	2	2	1	0	0	0
24/11/2017	0	0	0	0	5	5	3	1	0	0	0
01/12/2017	0	0	0	0	6	8	4	1	5	0	0
08/12/2017	0	0	0	0	8	11	5	1	6	0	0
15/12/2017	0	0	0	0	11	13	7	1	6	0	0
22/12/2017	0	0	0	0	12	16	8	1	6	0	0
12/01/2018	0	0	0	0	12	17	8	3	6	0	0
19/01/2018	0	0	2	0	13	20	9	5	7	0	0
26/01/2018	1	0	3	1	13	26	10	8	7	0	0
02/02/2018	1	0	3	1	16	29	10	8	7	0	0
09/02/2018	1	0	7	2	16	34	10	9	8	0	0
16/02/2018	1	0	7	2	16	40	10	10	9	0	0
23/02/2018	2	0	7	3	16	42	10	12	10	0	0
02/03/2018	3	0	10	4	17	43	10	15	11	0	0
09/03/2018	3	0	10	4	18	43	10	17	11	0	1
16/03/2018	3	0	10	10	23	49	10	23	13	0	3
23/03/2018	3	0	11	13	24	55	10	31	14	0	3
02/04/2018	3	1	11	14	30	60	10	34	15	0	3
06/04/2018	3	1	11	14	30	64	10	34	15	0	3
13/04/2018	5	2	11	15	31	67	10	45	16	0	3
20/04/2018	6	4	11	19	38	69	10	50	18	0	3
27/04/2018	8	4	11	19	44	72	10	59	18	0	3
04/05/2018	9	4	11	22	45	73	10	59	18	0	3
11/05/2018	9	4	11	24	46	73	10	66	18	0	3
18/05/2018	10	4	11	25	47	75	10	73	18	0	3
25/05/2018	11	4	13	31	52	75	10	77	19	0	4

ISCED 3B- PART 1	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France
17/11/2017	0	0	2	1	0	0	0	0	0	0
24/11/2017	0	0	6	4	0	1	2	0	0	0
01/12/2017	0	0	8	13	0	1	3	0	0	0
08/12/2017	0	0	8	20	0	1	3	0	0	0
15/12/2017	0	0	10	28	0	3	4	0	0	0
22/12/2017	0	0	10	32	0	3	4	0	0	0
12/01/2018	0	0	11	33	0	5	4	1	1	0
19/01/2018	0	0	13	36	0	7	4	1	1	0
26/01/2018	0	0	14	45	0	7	4	1	2	0
02/02/2018	0	2	14	50	0	9	5	2	3	0
09/02/2018	0	2	18	54	0	9	5	2	3	0
16/02/2018	0	2	18	55	0	9	5	3	3	1
23/02/2018	0	7	19	59	0	11	5	3	3	1
02/03/2018	0	12	19	59	0	18	5	3	4	2
09/03/2018	0	13	20	61	0	20	5	3	4	3
16/03/2018	0	13	21	61	0	23	4	3	5	4
23/03/2018	0	14	23	65	0	24	4	3	7	5
02/04/2018	0	17	25	67	0	26	4	5	7	8
06/04/2018	0	17	25	67	0	28	3	5	7	8
13/04/2018	3	17	26	68	0	31	3	5	7	10
20/04/2018	8	17	29	72	0	34	3	5	7	10
27/04/2018	12	20	31	77	0	35	3	5	9	10
04/05/2018	14	20	32	77	0	35	3	6	8	10
11/05/2018	19	23	32	78	0	35	3	6	8	10
18/05/2018	21	24	34	79	0	35	3	7	8	10
25/05/2018	22	29	34	79	0	35	3	7	10	10

ISCED 3B- PART 3	Norway	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	Turkey	UK
17/11/2017	0	0	0	0	1	0	2	0	1	0	0
24/11/2017	0	0	0	0	1	0	3	0	2	0	0
01/12/2017	0	0	0	0	3	1	4	0	4	0	0
08/12/2017	0	0	0	0	6	1	5	0	5	0	0
15/12/2017	0	0	0	0	7	2	6	0	5	0	0
22/12/2017	0	0	0	0	8	4	7	0	5	0	0
12/01/2018	0	0	0	0	8	4	7	0	5	0	0
19/01/2018	0	0	1	0	8	4	7	1	6	0	0
26/01/2018	0	0	3	0	8	4	9	1	6	0	0
02/02/2018	1	0	3	1	9	5	9	1	6	0	0
09/02/2018	1	0	4	4	9	6	10	2	7	0	0
16/02/2018	1	0	7	6	9	6	10	2	7	0	0
23/02/2018	2	0	7	8	9	6	11	4	7	0	0
02/03/2018	2	0	8	11	10	7	11	4	7	0	0
09/03/2018	2	0	8	11	11	7	11	7	7	0	0
16/03/2018	2	0	8	13	14	9	11	9	8	0	0
23/03/2018	2	0	8	16	15	9	11	11	9	0	0
02/04/2018	2	0	8	17	18	11	11	13	9	0	0
06/04/2018	2	0	8	17	18	12	11	13	9	0	0
13/04/2018	2	2	8	19	18	14	11	18	9	0	0
20/04/2018	4	3	8	25	22	15	11	21	11	1	0
27/04/2018	7	3	8	28	26	15	11	24	11	1	0
04/05/2018	7	3	9	32	27	15	11	24	11	1	0
11/05/2018	8	3	9	33	27	15	11	26	12	1	0
18/05/2018	8	3	9	35	28	17	12	33	12	1	0
25/05/2018	8	3	10	39	30	17	12	39	13	2	0

# 3.7 Final fieldwork statistics

The following tables provide information on final achieved fieldwork results. In particular, details can be found on the number of invitations sent, reminders sent, and surveys completed by the end of the fieldwork period, by ISCED level and country.

**Table 16- Final fieldwork statistics** 

PART 1 OF 3	Total	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland
Total 'unique' invitations send to headteachers	141968	5530	5586	2305	1277	449	5815	3163	554	2672
Total number of reminders to headteacher for school participation	586592	8560	20462	13165	4968	2830	24207	14659	2424	14054
Total number of reminders to school coordinators	11421	513	495	642	533	135	586	304	204	460
Total completed headteachers interviews	7162	336	267	325	489	75	482	265	192	311
Total reminders to complete head teacher survey	7093	47	390	422	321	68	359	218	202	365
Total completed ISCED 1 teachers interviews	1901	65	71	81	172	24	129	48	97	98
Total reminders to complete ISCED 1 teacher survey	1607	39	77	55	133	16	61	48	107	120
Total completed ISCED 2 teachers interviews	4846	87	92	272	569	16	419	182	258	152
Total reminders to complete ISCED 2 teacher survey	4784	115	160	219	420	19	255	220	306	191
Total completed ISCED 3A teachers interviews	2110	35	111	134	93	8	137	27	111	123
Total reminders to complete ISCED 3A teacher survey	2431	53	159	103	68	12	142	23	141	124
Total completed ISCED 3B teachers interviews	1061	47	55	83	186	0	79	4	13	25
Total reminders to complete ISCED 3B teacher survey	1266	63	110	66	132	0	57	0	17	34
Total completed parent interviews	19040	277	379	1653	1839	53	1042	547	1119	670
Total completed student interviews	48799	1063	1253	2583	4289	120	4287	1441	2473	1478

PART 2 OF 3	France	Germany	Greece	Hungary	Iceland	Ireland	Italy	Latvia	Lithuania	Luxembourg	Malta
Total 'unique' invitations sent to headteachers	4535	4936	7850	5837	184	3407	24263	812	1228	191	142
Total number of reminders to headteacher for school participation	33667	17586	8753	22673	838	18263	119096	3920	4592	162	575
Total number of reminders to school coordinators	407	211	165	488	42	345	1181	294	329	12	87
Total completed headteachers interviews	201	150	146	496	42	184	460	230	347	18	51
Total reminders to complete head teacher survey	350	92	38	248	54	235	414	301	372	15	81
Total completed ISCED 1 teachers interviews	4	6	19	211	12	54	66	95	176	3	15
Total reminders to complete ISCED 1 teacher survey	19	0	0	93	16	45	51	106	109	0	32
Total completed ISCED 2 teachers interviews	42	33	24	573	31	4	106	276	483	0	14
Total reminders to complete ISCED 2 teacher survey	105	0	0	267	56	0	144	390	376	0	47
Total completed ISCED 3A teachers interviews	6	21	11	131	12	7	101	197	241	0	14
Total reminders to complete ISCED 3A teacher survey	30	0	3	98	64	1	102	270	205	0	40
Total completed ISCED 3B teachers interviews	18	13	2	126	1	0	19	8	34	0	0
Total reminders to complete ISCED 3B teacher survey	81	0	0	88	7	0	19	3	23	0	0
Total completed parent interviews	73	68	37	2092	80	156	464	1184	2652	0	64
Total completed student interviews	519	398	189	5188	161	140	1248	2619	4456	0	117

PART 3 OF 3	Norway	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	Turkey	UK
Total 'unique' invitations	2133	11168	5369	2885	5293	2903	598	3443	3511	2434	21495
Total number of reminders to headteacher for school participation	6690	37375	3987	15871	24645	6850	3206	22690	20133	7877	101814
Total number of reminders to school coordinators	199	412	79	384	713	815	125	615	269	117	260
Total completed headteachers interviews	93	156	123	194	337	450	119	309	142	44	128
Total reminders to complete head teacher survey	14	168	23	413	485	421	129	507	211	11	119
Total completed ISCED 1 teachers interviews	14	19	16	69	79	76	42	58	34	3	45
Total reminders to complete ISCED 1 teacher survey	23	21	17	68	137	49	46	45	54	9	11
Total completed ISCED 2 teachers interviews	23	9	42	173	226	351	130	187	59	6	7
Total reminders to complete ISCED 2 teacher survey	32	36	51	218	474	208	125	218	106	10	16
Total completed ISCED 3A teachers interviews	17	1	26	64	91	161	21	179	24	0	6
Total reminders to complete ISCED 3A teacher survey	22	23	49	96	166	105	16	264	38	0	14
Total completed ISCED 3B teachers interviews	20	4	18	91	52	31	25	92	13	2	0
Total reminders to complete ISCED 3B teacher survey	31	21	43	140	110	47	24	112	32	6	0
Total completed parent interviews	54	56	268	463	1489	822	410	700	217	35	77
Total completed student interviews	455	224	728	1883	2931	3292	1143	3032	897	24	168

# 4. Partial registration, refusals, and no answers

As aforementioned in section 2.3, the head teacher of each selected school was sent an email inviting them to register their participation in the survey. The table below provides details on how many head teachers only partially registered, indicated their refusal to particiate, or did not answer the invitation.

Table 17- Overview of registration process by country

Country	Participation confirmed and valid			tial ration	Ref	usal	No answer		
Austria	416	9%	513	11%	39	1%	3591	79%	
Belgium	348	7%	554	12%	93	2%	3815	79%	
Bulgaria	390	17%	902	40%	12	1%	949	42%	
Croatia	549	44%	320	26%	63	5%	300	24%	
Cyprus	85	19%	143	32%	17	4%	199	45%	
Czech Republic	590	11%	1310	24%	213	4%	3339	61%	
Denmark	344	11%	600	19%	374	12%	1789	58%	
Estonia	218	40%	131	24%	49	9%	140	26%	
Finland	380	15%	373	15%	132	5%	1571	64%	
France	263	6%	730	16%	57	1%	3447	77%	
Germany	208	4%	541	12%	65	1%	3873	83%	
Greece	187	2%	599	8%	11	0%	7029	90%	
Hungary	665	12%	1370	25%	165	3%	3323	60%	
Iceland	47	26%	48	26%	13	7%	76	41%	
Ireland	267	8%	492	14%	142	4%	2490	73%	
Italy	721	3%	3530	15%	95	0%	19466	82%	
Latvia	269	37%	165	22%	42	6%	255	35%	
Lithuania	403	35%	383	33%	42	4%	319	28%	
Luxembourg	21	11%	29	16%	3	2%	133	72%	
Malta	61	45%	39	29%	8	6%	27	20%	
Norway	142	7%	247	12%	44	2%	1684	80%	
Netherlands	225	2%	920	9%	676	7%	8133	82%	
Poland	163	3%	474	9%	12	0%	4560	88%	

Portugal	290	11%	933	37%	32	1%	1288	51%
Romania	537	11%	958	19%	7	0%	3558	70%
Slovakia	590	21%	820	30%	75	3%	1260	46%
Slovenia	146	25%	113	19%	14	2%	312	53%
Spain	478	14%	679	20%	77	2%	2094	63%
Sweden	226	7%	446	15%	68	2%	2331	76%
Turkey	65	3%	239	11%	3	0%	1851	86%
UK	193	1%	636	3%	77	0%	19818	96%

In the event that the head teacher completed the registration survey, the school coordinator was then required to provide information on the relevant teachers and classes within the school. In a number of cases, this school information was not provided in full, or not provided at all, preventing the survey from being implemented in that school. The table below provides information on the number of school coordinators by country who provided full, partial, or no school information.

Table 18- Overview of information provision process by school coordinators by country

Country	Partial information	school n provided	Full informati	school on provided	No school provided	information
Austria	138	33%	156	38%	122	29%
Belgium	79	23%	130	37%	150	43%
Bulgaria	133	34%	162	42%	95	24%
Croatia	121	22%	328	60%	100	18%
Cyprus	27	32%	30	35%	28	33%
Czech Republic	192	33%	233	39%	166	28%
Denmark	100	29%	128	37%	116	34%
Estonia	33	15%	154	71%	31	14%
Finland	73	19%	205	54%	112	29%
France	51	19%	38	14%	179	68%
Germany	72	35%	46	22%	90	43%
Greece	46	25%	40	21%	101	54%
Hungary	190	29%	290	44%	185	28%

Iceland	7	15%	22	47%	18	38%
Ireland	64	24%	68	25%	135	51%
Italy	260	36%	157	22%	304	42%
Latvia	45	17%	163	61%	61	23%
Lithuania	88	22%	246	61%	69	17%
Luxembourg	4	19%	6	29%	11	52%
Malta	16	26%	26	43%	24	39%
Norway	43	30%	58	41%	41	29%
Netherlands	86	38%	34	15%	105	47%
Poland	44	27%	44	27%	75	46%
Portugal	84	29%	133	46%	73	25%
Romania	149	28%	144	27%	244	45%
Slovakia	180	31%	240	41%	170	29%
Slovenia	38	26%	76	52%	32	22%
Spain	147	31%	140	29%	191	40%
Sweden	57	25%	82	36%	87	38%
Turkey	13	20%	8	12%	44	68%
UK	36	19%	66	34%	91	47%

# 5. Data treatment

#### 5.1 Unvalid results

# 5.1.1 Country exclusions

For certain ISCED levels within countries, the number of achieved interviews was too low to allow us to use the data for analytical purposes. Findings from sample sizes too small would be meaningless, and as such, these results had to be eliminated from the final dataset. Specific criteria for elimination of data was discussed between Ipsos, Deloitte, and the European Commission and it was agreed that the minimum threshold to process data from each target group (head teachers, teachers, students, and parents) was 30 participating schools per country per ISCED level. However, in some small countries, this threshold was too high in comparison with the total number of schools in the country. In these cases, the minimum threshold necessary to process the data was established at 10% of the universe.

The table below shows which data was excluded on the basis of the "30 schools per country per ISCED level OR 10% of the universe" exclusion rule. Cells marked with an X indicate that the data was excluded. The number in each cell corresponds to the minimum threshold (30 schools, unless indicated otherwise due to a small universe). Details on the universe with a breakdown of schools per ISCED level for each country is available in annex 18.

**Table 19- Minimum threshold needed for inclusion** 

exclude = x	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Iceland	Ireland
HT Isced 1	30	30	30	30	30	30	30	30	30	30	30	30	30	15	30
HT Isced 2	30	30	30	30	6	30	30	30	30	30	30	30	30	14	X
HT Isced 3a	30	30	30	30	4	30	29	18	30	30	30	Х	30	3	X
HT Isced 3b	16	30	30	30	1	30	X	3	10	30	30	X	30	2	X
HT Isced 3	30	30	30	30	5	30	30	21	30	30	30	30	30	5	X
TC Isced 1	30	30	30	30	X	30	30	30	30	X	Х	X	30	15	30
TC Isced 2	30	30	30	30	6	30	30	30	30	X	X	X	30	14	X
TC Isced 3a	x	30	30	30	4	30	X	18	30	x	X	X	30	3	X
TC Isced 3b	Х	Х	30	30	X	30	X	3	10	X	X	X	30	X	X
TC Isced 3	30	30	30	30	X	30	X	21	30	X	Х	Х	30	5	X
ST Isced 2	30	30	30	30	6	30	30	30	30	X	X	X	30	14	X
ST Isced 3a	x	30	30	30	4	30	29	18	30	x	X	x	30	3	X
ST Isced 3b	16	30	30	30	x	х	30	3	10	X	X	Х	30	X	X
ST Isced 3	30	30	30	30	5	30	30	21	30	X	Х	Х	30	5	X
PA Isced 1	30	30	30	30	X	30	30	30	30	X	X	Х	30	15	30
PA Isced 2	30	30	30	30	x	30	30	30	30	x	x	x	30	14	x
PA Isced 3a	x	х	30	30	x	30	X	18	30	x	X	X	30	X	X
PA Isced 3b	X	Х	х	30	X	х	X	3	X	X	X	X	30	X	X
PA Isced 3	X	30	30	30	x	30	X	21	30	X	X	Х	30	X	X

exclude = x	Italy	Latvia	Lithu- ania	Luxem- bourg	Malta	Norway	Nether- lands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	Tur- key	UK
HT Isced 1	30	30	30	15	10	30	30	30	30	30	30	30	30	30	30	30
HT Isced 2	30	30	30	Х	5	Х	30	30	30	30	30	30	30	30	X	Х
HT Isced 3a	30	30	30	Х	5	13	X	30	30	30	30	8	30	30	Х	Х
HT Isced 3b	30	X	8	Х	Х	5	x	30	30	30	2	10	30	30	Х	Х
HT Isced 3	30	30	30	х	5	18	30	30	30	30	30	18	30	30	Х	х
TC Isced 1	30	30	30	Х	10	Х	Х	X	30	30	30	30	30	30	X	30
TC Isced 2	30	30	30	X	5	X	Х	X	30	30	30	30	30	30	X	Х
TC Isced 3a	30	30	30	X	5	Х	х	х	30	30	30	8	30	X	Х	Х
TC Isced 3b	Х	x	8	х	x	5	х	x	30	x	X	10	30	X	Х	х
TC Isced 3	30	30	30	х	5	18	х	X	30	30	30	18	30	X	X	Х
ST Isced 2	30	30	30	Х	5	X	Х	X	30	30	30	30	30	30	Χ	Χ
ST Isced 3a	30	30	30	X	5	13	X	x	30	30	30	8	30	x	Х	Х
ST Isced 3b	Х	x	8	х	x	5	х	x	30	30	2	10	30	x	X	х
ST Isced 3	30	30	30	X	5	18	х	х	30	30	30	18	30	X	X	Х
PA Isced 1	30	30	30	Х	10	X	Х	X	30	30	30	30	30	X	X	30
PA Isced 2	30	30	30	X	x	x	Х	x	30	30	30	30	30	x	Х	Х
PA Isced 3a	Х	x	30	X	Х	x	x	x	X	30	30	8	30	x	Х	х
PA Isced 3b	х	x	Х	Х	Х	x	X	x	30	x	x	x	x	x	X	x
PA Isced 3	30	30	30	X	Х	X	X	x	30	30	30	18	30	x	X	x

# 5.1.2 Exclusions from graphs

Certain questions within each survey had routing, meaning they were only asked to those respondents for whom the question was applicable. As such, there are certain questions for which the base size is smaller than 30, or 10% of the universe. Similarly, respondents had the option to select the answer "don't know" within each question, meaning that the base size of respondents having given an informative answer could be smaller than the initial base size indicated in the section above.

When calculating averages on specific questions, data from all of the ISCED levels that were not excluded through the "Minimum threshold" rule explained above was retained, even if the base sizes *on that specific question* was smaller due to the aforementioned reasons.

Where base sizes on specific questions were too small, results for that specific country were not included as a separate country indicator within a chart (and only included in calculating the average across countries). To determine this "minimum base size" for presenting country-specific results, the same process was used as that explained in section 5.1.1 above.

#### 5.2 Data cleaning

Data checks were undertaken from the beginning of fieldwork in order to ensure that any issues with questionnaire routing were corrected immediately. Moreover, specific requests to modify data or delete data were implemented throughout fieldwork, at the request of schools who made mistakes when completing the survey. Mistakes which were made before any routing took place were amended by our data processing team, while the data from mistakes which could not be amended (post-routing) was deleted in order to avoid the collection of inaccurate data.

After fieldwork was completed, a final data file was produced on which a process of data verifications was made. Some of the checks that were carried out include:

- Every question in the data file was checked against top line frequency counts that were produced directly from the survey database. This was done to ensure that the numbers in the data file were a reflection of the numbers in the actual database and that no corruption or error had occurred during the creation of the data file;
- Every question in the data file was checked to ensure that the base number was
  consistent with what we expected based on the filter for that question. Questions
  were also checked to ensure that the 'Don't know'/'Refused' codes have been coded
  correctly, and that the labelling was correct;
- All data was checked for outliers, which were discussed on a case by case basis in order to determine the best course of action.

Similarly, a number of corrections were made to the data after fieldwork was complete. These changes were:

- Recording PA02Q01 such that for anyone who had answered "0" to the question "How many children do you have?" this response was changed to a "1". As parent surveys were completed on the premise of having a child in the surveyed class, it was impossible for any of the parent survey interviewees to answer "0" to this question.
- Similarly, any answers equal to or above "20" for the same question (PA02Q01) were recoded into the answer "3".

 For the question PA11, there was an inconsistency in the answer items for Iceland and Croatia versus the rest of the countries. These items were either re-categorised or deleted post-fieldwork in order to correspond to the items presented to all 29 other countries.

## 5.3 Weighting

The weighting approach was based on the approach used in the  $1^{st}$  Survey of Schools: ICT in education, to promote comparability. We first outline the previous survey approach before describing how the weighting was undertaken of this survey.

## 5.3.1 Previous survey weighting approach

As described in the technical report of the first Survey of Schools: ICT in education, the weighting approach was based on a number of cumulative stages that are standard for surveys in schools:

- 1. inverse probability of school selection weights,
- 2. non-response adjustment for school participation (based on explicit stratification variables),
- 3. non-response adjustment for head teacher participation,
- 4. inverse probability of class selection weight for students, and
- 5. non-response adjustment for student participation.

The first two weights made up the weight for each school, with the head teacher and student weights multiplied to the school weight for these samples (and the student weight additionally used for the teacher samples).

The schools were selected with probability proportional to their size (providing size information available), given that this is an efficient sampling mechanism where equal numbers of classes are selected in each school (the sample is self-weighting at the class level). The strategy was varied depending on how the sampling was applied – in countries and ISCED levels where there was no size information the schools were selected with equal probability, as with the current survey. The same principle should apply to countries and ISCED levels where all schools were included in the sample due to limited numbers (a census), given that in this instance the selection probability of each school is equal.

A review of the previous survey weights also shows that the weights were gross weights, i.e. they were not scaled to an an average of one (if this is done the weighted and unweighted sample sizes are the same). As such, the school weights summed to the total number of schools in each ISCED level, and the student weights summed to the total numbers of students in each of the represented target grades. These totals were the same for the equivalent weights (schools or students) across the different datasets (head teachers, students, teachers). This approach means that the same weights can be used for within-country or cross-country analyses, as the weighted total for each country is in line with the size of its target population.

# 5.3.2 Replicating the approach in the 2018 survey

## Schools weight (steps 1 and 2)

With the new survey, given low levels of response, a census of all schools was taken in the majority of countries and ISCED levels. This means that the schools were selected with equal probability (i.e. every school had a 100% chance of selection). Of the exceptions to this (France, Germany, Norway, Poland, Spain, and Turkey), Poland and France were the only two countries where size information was available, and so the sample could be selected with probability proportional to size (PPS). As such, at step 1, the schools in the majority of countries have an identical selection weight in each ISCED level. The selection weight was calculated as the number of schools in the ISCED level on the sample frame divided by the number of schools participating in the ISCED level.

Turning to the non-response adjustments, the 2013 approach was to adjust the achieved sample profiles to the sample frame proportions based on the explicit stratifiers used in the sampling. A range of different variables were used as explicit stratifiers, including region, type of school, language, urban/rural, among others. Most likely these choices were driven by what was available on the sample frames. In some countries no stratification was included in the sampling, again, probably due to a lack of suitable information on the sample frame. In these countries therefore this weighting step was not included (Bulgaria, Croatia, France, Iceland, Luxembourg, Malta and the Netherlands).

In common with the previous survey, a number of different stratification variables were employed in the sampling, based on sample frame availability. As the sources of the sample frames were not recorded in the previous survey it was not possible to seek the same sample frames, which might have included comparable stratification variables. This is a potential point of difference in the weighting scheme of the two surveys. A further potential point of difference is that, in the application of weighting based on sample frame stratification cells, it is good practice to not include in the weighting scheme a cell with fewer than 30 responses. In practice, considering the low number of responses, this has heavily limited the extent to which this weighting step was applied in the current survey. The previous survey has not documented how this was applied in practice, but we expect that it faced similar challenges, given the achieved sample sizes of schools and numbers of categories sometimes used as explicit strata<sup>10</sup>. This would have reduced how often/how extensively the schools non-response weighting was actually applied.

Nevertheless, following the principle of comparability, this step of weighting was applied in any of the strata it was feasible to do so, as shown in the following table.

<sup>&</sup>lt;sup>9</sup> An exception to this was for ISCED 3B in certain countries. On completing fieldwork, it was found that in some countries, the number of schools teaching ISCED level 3B was different from what was recorded in the sample frame, with the sample frame indicating 0 schools while certain schools registered teaching this level. The sample frame thus had to be revised, as clearly there were not zero schools teaching ISCED 3B in that country. The decision was made to amend the sample frame ISCED 3B figure to half of what was given for ISCED 3A (for example, a sample frame that included 100 schools at ISCED 3A and 0 schools at ISCED 3B was revised to indicate 100 schools at ISCED 3A and 50 schools at ISCED 3B). Detail of which sample frames were amended can be found in annex 18 (see "Adjusted school universe used for weighting purposes", with ISCED 3B cells highlighted).

<sup>&</sup>lt;sup>10</sup> Examples of apparently problematic countries in the previous survey, i.e. those where cells of <30 can be expected (upper/lower Ns based on pooling ISCED 3a and 3b): Austria (9 categories across 96-111 schools depending on ISCED group), Czech Republic (14 across 110- 248), Demark (2 across 38-68), Finland (5 across 116-162), Greece (13 across 101-143), Hungary (20 across 136-252), Ireland (2 across 31-43), Italy (18 across 188-352), Norway (2 across 55-69), Poland (16 across 182-387), Portugal (5 across 79-169), Slovenia (12 across 33-81), Sweden (2 across 19-25) and Turkey (7 across 38-153).

Table 20- Application of non-responses weights, strata with sufficient schools responses

Austria   Urban/rural (2   cells)   cells    c	Country	ISCED1	ISCED2	ISCED3a	ISCED3b
Cells   Cells   Cells   Cells   Cells	Austria			-	-
Croatia         - </td <td>Belgium</td> <td></td> <td></td> <td></td> <td>-</td>	Belgium				-
Cyprus         - <td>Bulgaria</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Bulgaria	-	-	-	-
Czech Republic Denmark         -	Croatia	-	-	-	-
Republic Denmark         -	Cyprus	-	-	-	-
Estonia	Republic	-	-	-	-
Cells   Cell					-
France	Estonia				-
Germany         - </td <td>Finland</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Finland	-	-	-	-
Greece         -         -         -         -           Hungary         -         -         -         -           Iceland         -         -         -         -           Ireland         -         -         -         -           Italy         Region (5 cells)         Region (5 cells)         -           Latvia         -         -         -         -           Lithuania         -         -         -         -         -           Luxembourg         -	France	-	-	-	-
Hungary   -   -   -   -   -   -     -	Germany	-	-	-	-
Iceland       -       -       -         Italy       Region (5 cells)       Region (5 cells)       -         Latvia       -       -       -         Lithuania       -       -       -         Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Greece	-	-	-	-
Ireland       -       -       -       -         Italy       Region (5 cells)       Region (5 cells)       -         Latvia       -       -       -         Lithuania       -       -       -         Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Slovenia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Hungary	-	-	-	-
Italy       Region (5 cells)       Region (5 cells)       -         Latvia       -       -       -         Lithuania       -       -       -         Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Slovenia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Iceland	-	-	-	-
Latvia       -       -       -         Lithuania       -       -       -         Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Slovenia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Ireland	-	-	-	-
Lithuania       -       -       -         Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Slovenia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Italy	Region (5 cells)	Region (5 cells)	Region (5 cells)	-
Luxembourg       -       -       -         Malta       -       -       -         Norway       -       -       -         Netherlands       -       -       -         Poland       Urban/rural (2 cells)       -       -         Portugal       Public/private (2 cells)       -       -         Romania       -       -       -         Slovakia       -       -       -         Slovenia       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -         Sweden       -       -       -         Turkey       -       -       -	Latvia	-	-	-	-
Malta       -       -       -       -         Norway       -       -       -       -         Netherlands       -       -       -       -         Poland       Urban/rural (2 cells)       -       -       -         Portugal       Public/private (2 cells)       -       -       -         Romania       -       -       -       -         Slovakia       -       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -       -         Sweden       -       -       -       -         Turkey       -       -       -       -	Lithuania	-	-	-	-
Norway         -         -         -         -         -         -         Netherlands         -	Luxembourg	-	-	-	-
NetherlandsPolandUrban/rural (2 cells)Urban/rural (2 cells)-PortugalPublic/private (2 cells)RomaniaSlovakiaSloveniaSpainPublic/private (2 cells)Public/private (2 cells)Public/private (2 cells)SwedenTurkey	Malta	-	-	-	-
Poland Urban/rural (2 cells)	Norway	-	-	-	-
Cells)  Portugal  Public/private (2 cells)  Romania	Netherlands	-	-	-	-
Romania       -       -       -       -         Slovakia       -       -       -       -         Slovenia       -       -       -       -         Spain       Public/private (2 cells)       Public/private (2 cells)       -       -         Sweden       -       -       -       -         Turkey       -       -       -       -	Poland			-	-
Slovakia Slovenia	Portugal			-	-
Slovenia Spain Public/private (2 cells) Public/private (2 cells) Public/private (2 cells) Turkey	Romania	-	-	-	-
SpainPublic/private (2 cells)Public/private (2 cells)Public/private (2 cells)SwedenTurkey	Slovakia	-	-	-	-
(2 cells)       (2 cells)         Sweden       -         Turkey       -	Slovenia	-	-	-	-
Turkey	Spain				-
	Sweden	-	-	-	-
UK	Turkey	-	-	-	-
	UK	-	-	-	-

#### Head teacher non-response adjustment (step 3)

This school-level weight was included in the head teacher dataset. It involved scaling the schools weight so that the weighted head teacher base size equalled the weighted total number of schools. This was done at the country/ISCED level.

#### Student weight (steps 4 and 5)

In the previous survey this weight consisted of two stages. As in each school a single class was chosen for participation, out of those available in the target grade, the probability of selection of the class is one divided by the number of classes in the grade. Similarly, an adjustment was made for student participation. For example, if 20 out of 30 students in class (a) completed the survey, and 25 out of 30 students in class (b) completed it, this adjustment gave a greater weight to the students in class (a) so that their total contribution (at this weighting step) was equal to that of class (b). These weights have the effect that the sum of weighted student interviews is equal to the total number of students in the applicable target grade in the school. And so, when combined with the school selection weight, the sum of students in the applicable target grade in that country.

For the new survey it was decided to base the student weights on the total number of students in the ISCED level (rather than target grade) in each school, because this information was considered more reliable (coming as it did from the head teacher interview) and also had less missing information. This second issue arose because, for the current survey, in order to maximise the number of responses to each survey, a decision was taken to accept 'partial data', whereby the data for a particular survey was retained irrespective of whether the other survey types were completed or not. For example, if a school provided a head teacher interview only, that data point was used, even though the teacher, student and parent surveys were absent. This scenario (of a head teacher complete only) was particularly widespread in ISCED level 1. This approach is different to the previous survey, where the cases that were used were only those from schools with the full set of surveys. However, information on the number of classes and students in the target grade (as opposed to full ISCED level) was collected from the 'school coordinator' during a 'registration interview', and this was completed less often that the head teacher interview was, informing the decision to use ISCED numbers. Furthermore, a school coordinator was potentially less qualified to know this information than the head teacher. In the small number of cases where the head teacher interview was missing the average number of students of the applicable ISCED/country was used in the weighting.

This approach has no affect on the comparability of the two surveys given it is a matter of scaling, which is expected to be consistent. To elaborate, within a given country and ISCED level the difference in the size of the student weights between the two surveys is the number of grades in the ISCED level in that country, a factor that is consistent across schools. When considering averages across countries it is possible that some variation might be introduced, if an ISCED level consists of different numbers of grades across countries, however the effect on the average will be minor, dwarfed as it is by the differences in country sizes.

The student weight was calculated by multiplying the school's weight by the number of students in the ISCED level of each school. Given that there is large variation in the sizes of the schools, which would result in large variation in the weights and reduced precision, the numbers of students were first capped at the 97.5 percentile of the distribution within each country/ISCED level. This was then used to derive student population totals at the country/ISCED level. Each of the surveys includes a student weight, to be used for analyses at the student level. For the head teachers survey the weighted totals were scaled (within ISCED/country) to match the student population totals, thus adjusting for head teacher non-response. For the student, teacher and parents surveys the weighted total for each school was divided by the number of data points and the same weight given to each case (e.g. in a school with 30 student interviews the total student weight for the school was

divided by 30 and the same weight attached to each student interview). Thereafter, the weighted totals were scaled (within ISCED/country) to match the student population totals, adjusting for school-level non-response. This means that the weighted country/ISCED student totals are the same, across all the datasets, even though the applicable surveys were not completed by all schools.

# 6. Cluster analyses

We performed several cluster analyses based on the strategy applied in the previous wave. To begin, missing values were imputed using SPSS' "multiple imputations" algorithm, which generates random values to those missing based on the values reported in similar cases. Following this, a two-step cluster analysis was applied, using a "best-fit" strategy. Looking at the clusters suggested as well as the clusters established in the previous wave of this study, the optimum number of clusters was determined.

The aim of the cluster analysis was to identify groups of schools, teachers, and students with similar characteristics according to a number of preselected variables. The criteria and process used to establish each cluster is explained below.

#### 6.1 Cluster analysis: The digitally equipped and connected school

This clustering was based on the survey of head teachers, and used the following variables:

- SC08Q01: Equipment fully operational;
- SC11Q01: Broadband speed at school;
- SC12Q011 SC12Q017 Main means of Internet access;
- SC14Q01 SC14Q15 Indicators of connectedness (Available at school);
- SC07 (SC07\_01, SC07\_03, SC07\_07, and SC07\_08): Number of digital items provided by the school (desktop computer, laptop or notebook, interactive whiteboard, digital camera)

From these variables we were able to derive the following two cluster groups. Note that the percentages attributed to each cluster are based on the non-weighted results from all countries:

- 1: Highly digitally equipped and connected schools (3813 cases, 43.6%);
- 2: Partially digitally equipped and connected schools (4936 cases, 56.4%);

The name of the variable of this cluster analysis is:

• TSC\_1120. DIGITALLY EQUIPPED SCHOOLS

Table 21 below provides an overview of a number of different connectivity indicators by the two groups established above (1- Highly digitally equipped and connected schools; 2-Partially digitally equipped and connected schools).

Table 21- Digitally equipped and connected schools cluster

	Group	SC07Q01i Desktops: N per 100 students	SC07Q03i Laptops: N per 100 students	SC07Q07i Interactive whiteboards: N per 100 students	SC07Q08i Digital cameras: N per 100 students	SC08Q01 Equipment fully operational (1: less than 50% to 4: more than 90%)	SC11Q01 Broadband speed at school (1: lowest to 6: highest)	SC12Q011 Main means of Internet access: ADSL (0: No; 1: Yes)	SC12Q012 Main means of Internet access: CABLE (0: No; 1: Yes)	SC12Q013 Main means of Internet access: FIBRE OPTIC (0: No; 1: Yes)	SC12Q014 Main means of Internet access: WIRELESS LAN (0: No; 1: Yes)	SC14 Indicators of connected- ness (1: Available at school; 2: Not available)
ISCED1	1	14.3	17.4	4.3	2.2	3.7	4.8	0.1	0.3	0.5	0.5	1.1
	2	11.7	6.2	2.6	0.8	3.2	3.7	0.4	0.3	0.2	0.3	1.5
ISCED2	1	16.6	15.7	3.4	1.6	3.7	4.8	0.1	0.3	0.6	0.5	1.1
	2	12.0	5.6	2.1	0.6	3.2	3.9	0.4	0.3	0.3	0.3	1.5
ISCED3	1	22.0	15.8	3.0	1.2	3.7	5.0	0.1	0.3	0.7	0.4	1.1
Α	2	13.7	5.5	1.7	0.5	3.4	4.1	0.3	0.3	0.3	0.3	1.5
ISCED3	1	28.9	17.8	2.9	1.3	3.7	5.0	0.1	0.3	0.7	0.4	1.1
В	2	16.0	5.4	1.5	0.5	3.4	4.1	0.3	0.4	0.3	0.3	1.5

# 6.2 Cluster analysis: Schools' policies and support of ICT use in teaching and learning

This clustering was also based on the survey of head teachers, and looked at the following variables:

# Policy variables:

- SC18: Existing school strategies to use ICT in T&L
- SC19: Incentives to reward teachers using ICT
- SC31: Whether teachers and students are allowed to access the internet at school from their own device by using the school network

#### Support variables:

- SC15: Percentage of school teachers that have undertaken professional development in the past two school years
- SC16: The availability of an ICT coordinator
- SC29-SC30: Use of personal devices within school premises and during lessons

Through this clustering, we were able to identify the following four cluster profiles:

- Strong policy, strong support (2697 cases, 30.8 %);
- Weak policy, strong support (2213 cases, 25.3 %);
- Strong policy, weak support (1585 cases, 18.1 %);
- Weak policy, weak support (2215 cases, 25.3 %);
- System missing: 39 cases not categorized;

The names of the variables of this cluster analysis are:

- TSC\_4595: DIGITALLY SUPPORTIVE SCHOOL Cluster Analysis 1 (Policy)
- TSC\_5305: DIGITALLY SUPPORTIVE SCHOOL Cluster Analysis 2 (Support)
- dig\_support: DIGITALLY SUPPORTIVE SCHOOL Groups

The tables below provide an overview of responses to a series of questions from the school coordinator survey according to the four cluster profiles established above, and by ISCED level.

Table 22- School cluster depending on schools' policies and support of ICT use in teaching and learning, by ISCED level

ISCED1	1 - Strong policy, strong support	2 - Weak policy, strong support	3 - Strong policy, weak support	4 - Weak policy, weak support
	Mean	Mean	Mean	Mean
SC18 Existing school strategies to use ICT in T&L (1 = High availability; 2 = Low availability)	1.3	1.8	1.4	1.8
SC19 Incentives to reward teachers using ICT ( $1 = \text{High availability}$ ; $2 = \text{Low availability}$ )	1.7	1.9	1.8	1.9
SC31 Accessing the Internet at school from personal devices by using the school network (1 = Allowed; 2 = Not allowed)	1.2	1.2	1.5	1.5
SC15 Professional development of teachers (1 = Lowest level; 4 = Highest level)	2.4	1.9	2.2	1.7
SC16 ICT coordinator in school (1 = High availability; 2 = Low availability)	1.3	1.5	1.4	1.6
SC29 Devices allowed to use within the school premises ( $1 = Allowed$ ; $2 = Not allowed$ )	1.1	1.1	1.9	1.9
SC30 Devices allowed to use during lesson (1 = Highest level of support; 5 = Lowest level of support)	3.7	3.8	3.9	4.0

ISCED2	1 - Strong policy, strong support	2 - Weak policy, strong support	3 - Strong policy, weak support	4 - Weak policy, weak support
	Mean	Mean	Mean	Mean
SC18 Existing school strategies to use ICT in T&L (1 = High availability; 2 = Low availability)	1.4	1.8	1.4	1.8
SC19 Incentives to reward teachers using ICT ( $1 = \text{High availability}$ ; $2 = \text{Low availability}$ )	1.7	1.9	1.8	1.9
SC31 Accessing the Internet at school from personal devices by using the school network $(1 = Allowed; 2 = Not allowed)$	1.1	1.2	1.4	1.5
SC15 Professional development of teachers ( $1 = Lowest level$ ; $4 = Highest level$ )	2.3	1.9	2.2	1.8
SC16 ICT coordinator in school (1 = High availability; 2 = Low availability)	1.3	1.4	1.3	1.5
SC29 Devices allowed to use within the school premises ( $1 = Allowed$ ; $2 = Not allowed$ )	1.1	1.1	1.9	1.9
SC30 Devices allowed to use during lesson ( $1 = \text{Highest level of support}$ ; $5 = \text{Lowest level of support}$ )	3.7	3.8	3.9	4.0

ISCED3A	1 - Strong policy, strong support	2 - Weak policy, strong support	3 - Strong policy, weak support	4 - Weak policy, weak support
	Mean	Mean	Mean	Mean
SC18 Existing school strategies to use ICT in T&L (1 = High availability; 2 = Low availability)	1.3	1.8	1.3	1.8
SC19 Incentives to reward teachers using ICT ( $1 = \text{High availability}$ ; $2 = \text{Low availability}$ )	1.7	1.9	1.8	1.9
SC31 Accessing the Internet at school from personal devices by using the school network (1 = Allowed; 2 = Not allowed)	1.1	1.2	1.3	1.4
SC15 Professional development of teachers (1 = Lowest level; 4 = Highest level)	2.4	1.9	2.4	1.9
SC16 ICT coordinator in school (1 = High availability; 2 = Low availability)	1.3	1.4	1.3	1.5
SC29 Devices allowed to use within the school premises ( $1 = Allowed$ ; $2 = Not allowed$ )	1.1	1.0	1.8	1.9
SC30 Devices allowed to use during lesson (1 = Highest level of support; 5 = Lowest level of support)	3.6	3.8	4.0	4.2

ISCED3B	1 - Strong policy, strong support	2 - Weak policy, strong support	3 - Strong policy, weak support	4 - Weak policy, weak support
	Mean	Mean	Mean	Mean
SC18 Existing school strategies to use ICT in T&L (1 = High availability; 2 = Low availability)	1.3	1.8	1.4	1.8
SC19 Incentives to reward teachers using ICT (1 = High availability; 2 = Low availability)	1.8	1.9	1.8	1.9
SC31 Accessing the Internet at school from personal devices by using the school network (1 = Allowed; 2 = Not allowed)	1.1	1.2	1.3	1.4
SC15 Professional development of teachers (1 = Lowest level; 4 = Highest level)	2.3	1.8	2.2	1.8
SC16 ICT coordinator in school (1 = High availability; 2 = Low availability)	1.3	1.4	1.4	1.5
SC29 Devices allowed to use within the school premises (1 = Allowed; 2 = Not allowed)	1.1	1.0	1.9	1.9
SC30 Devices allowed to use during lesson (1 = Highest level of support; 5 = Lowest level of support)	3.7	3.8	3.7	4.1

# 6.3 Cluster analysis: The digitally active, confident and supported teacher

This clustering was based on the survey with teachers, and looked at the following variables:

- TE04Q02 ICT is integrated in my subject because I choose to do so
- TE07Q01 Computer/Internet use in class in the past 12 months
- TE14Q01- TE14Q11 Professional development in:
- TE15Q01 Time investment in professional development
- TE20Q01 TE20Q20: Use of ICT affected by:
- TE22Q01 TE22Q35: Teacher able to....
- TE24Q01 TE24Q011: ICT should be used... / ICT use...
- TE09Q01 TE09Q09: Availability of:
- TE10Q01 TE10Q02: School provided laptop or a notebook / a tablet to teacher
- TE30Q01 Percentage of usage ICT by students in class in the past 12 months
- TE33Q01 TE33Q03: Teacher able to:

Again, this clustering resulted in the following three cluster profiles:

- 1. Highly digitally active, confident and supported teachers (2670 cases, 26.9 %);
- 2. Highly digitally active and confident teachers with a rather low level of support (2656 cases, 26.8 %);
- 3. Less digitally active, confident and supported teachers (4589 cases, 46.2 %);
- system missing: 12 cases not categorized;

The name of the variable of this cluster analysis is:

• TSC\_ 7477: Digitally active, confident and supported teacher Cluster Groups

Table 23 below provides responses to a series of questions from the teacher survey according to the three cluster profiles established, and by ISCED level.

Table 23- The digitally active, confident and supported teacher cluster

	1 - ISCED1			2 - ISCED2		
	1 Highly digitally active, confident and supported teachers	2 Highly digitally active and confident teachers with a rather low level of support	3 Less digitally active, confident and supported teachers	1 Highly digitally active, confident and supported teachers	2 Highly digitally active and confident teachers with a rather low level of support	3 Less digitally active, confident and supported teachers
	Mean	Mean	Mean	Mean	Mean	Mean
TE04: ICT is integrated in my subject because I choose to do so $(1 = Yes; 2 = No)$	1.2	1.2	1.4	1.2	1.2	1.4
TE10 School provided laptop/tablet to teacher (1 = Yes; 2 = No)	1.5	1.7	1.7	1.6	1.8	1.8
TE14 Professional development (1 = Higher prof. dev.; 2 = Lower prof. dev.)	1.6	1.6	1.8	1.6	1.6	1.8
TE07 Computer/Internet use in class in the past 12 months ( $1 = \text{Highest}$ use; $7 = \text{Lowest use}$ )	2.6	2.8	3.8	2.6	3.0	3.6
TE09 ICT Availability (1 = Lowest availability; 3 = Highest availability)	2.1	1.9	1.8	2.1	1.9	1.8
TE15 Time investment in professional development (1 = Lowest; 5 = Highest)	4.0	3.9	3.3	4.1	4.1	3.4
TE20 Use of ICT affected by different obstacles (1 = Highest obstacles' influence; 4 = Lowest obstacles' influence)	3.5	2.3	2.6	3.5	2.3	2.6
TE22 Teacher able to perform ICT tasks $(1 = \text{Highest ability}; 4 = \text{Lowest ability})$	1.8	1.7	2.7	1.8	1.7	2.6
TE24 Possitive attitute to ICT use in teaching and learning (1 = Highest; 4 = Lowest)	1.8	1.8	2.0	1.8	1.9	2.1
TE30 Percentage of usage ICT by students in class in the past 12 months $(1 = \text{Highest}; 7 = \text{Lowest})$	3.5	3.9	4.6	3.4	3.9	4.5
TE33 Confidence in teacher's ability to teach internet safety, privacy and opportunities (1 = Highest; 4 = Lowest)	1.5	1.5	2.2	1.6	1.5	2.3

	3 - ISCED3	a		4 - ISCED3	Bb		Total		
	1 Highly digitally active, confident and supported teachers	2 Highly digitally active and confident teachers with a rather low level of support	3 Less digitally active, confident and supported teachers	1 Highly digitally active, confident and supported teachers	2 Highly digitally active and confident teachers with a rather low level of support	3 Less digitally active, confident and supported teachers	1 Highly digitally active, confident and supported teachers	2 Highly digitally active and confident teachers with a rather low level of support	3 Less digitally active, confident and supported teachers
	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
TE04: ICT is integrated in my subject because I choose to do so $(1 = Yes; 2 = No)$	1.2	1.2	1.4	1.3	1.3	1.4	1.2	1.2	1.4
TE10 School provided laptop/tablet to teacher (1 = Yes; 2 = No)	1.6	1.7	1.8	1.6	1.8	1.8	1.6	1.7	1.8
TE14 Professional development (1 = Higher prof. dev.; 2 = Lower prof. dev.)	1.5	1.5	1.7	1.6	1.6	1.8	1.5	1.6	1.8
TE07 Computer/Internet use in class in the past 12 months (1 = Highest use; 7 = Lowest use)	2.5	2.9	3.6	2.3	2.7	3.3	2.5	2.9	3.6
TE09 ICT Availability (1 = Lowest availability; 3 = Highest availability)	2.0	1.9	1.8	2.1	1.9	1.8	2.1	1.9	1.8
TE15 Time investment in professional development (1 = Lowest; 5 = Highest)	4.2	4.1	3.5	4.2	4.0	3.5	4.1	4.1	3.4
TE20 Use of ICT affected by different obstacles (1 = Highest obstacles' influence; 4 =Lowest obstacles' influence)	3.5	2.3	2.6	3.5	2.2	2.7	3.5	2.3	2.6
TE22 Teacher able to perform ICT tasks (1 = Highest ability; 4 = Lowest ability)	1.7	1.7	2.6	1.7	1.6	2.6	1.8	1.7	2.6
TE24 Possitive attitute to ICT use in teaching and learning (1 = Highest; 4 = Lowest)	1.8	1.9	2.1	1.7	1.8	2.1	1.8	1.9	2.1
TE30 Percentage of usage ICT by students in class in the past 12 months (1 = Highest; 7 = Lowest)	3.4	3.8	4.6	3.0	3.4	4.1	3.4	3.8	4.5
TE33 Confidence in teacher's ability to teach internet safety, privacy and opportunities (1 = Highest; 4 = Lowest)	1.7	1.6	2.5	1.6	1.6	2.5	1.6	1.5	2.4

# 6.4 The digitally active and supported student

This clustering was based on the survey of students, and looked at the following variables:

- ST03Q01 ST03Q16: Which of the following are available for you to use at home, or outside school?
- ST05Q01 ST05Q25: How often do you take part in the following activities in your free time, at home or any place other than school?
- ST11Q09 ST11Q11: How often do you use the following for learning purpose during lessons?
- ST13Q01 ST13Q21: How often do you do the following learning activities during lessons?
- ST16Q01 ST16Q07: Do you consider using ICT during lessons has a positive impact on the following?

This clustering resulted in the following two cluster profiles:

- 1. Highly digitally active and supported students (20209 cases, 41.4 %);
- 2. Less digitally active students with a rather moderate / low level of support (28186 cases, 57.7 %);
- system missing: 440 cases not categorized;

The name of the variable of this cluster analysis is:

• TSC\_8934: Digitally active and supported student Cluster Groups

Table 24- The digitally active and supported student cluster

	Group	st03. Which of the following are available for you to use at home, or outside school (1 = Low availability; 4 = High availability)	st05. How often do you take part in the following activities in your free time, at home or any place other than school?  (1 = Never; 4 = Every day)	st11. How often do you use the following for learning purpose during lessons? (1 = Low frequency; 4 = High frequency)	st13. How often do you do the following learning activities during lessons? (1 = Low frequency; 4 = High frequency)	st16. Do you consider using ICT during lessons has a positive impact on the following? (1 = Negative impact; 4 = Positive impact)
2 ISCED2	1	2.7	2.9	2.1	2.4	3.2
	2	2.0	2.3	1.5	1.5	2.9
3 ISCED3a	1	2.7	2.9	2.3	2.5	3.1
	2	2.1	2.4	1.7	1.6	2.8
4 ISCED3b	1	2.6	2.9	2.3	2.6	3.1
	2	1.9	2.2	1.7	1.6	2.9
Total	1	2.7	2.9	2.2	2.5	3.2
	2	2.0	2.3	1.5	1.5	2.9

# 7. Data delivery

With fieldwork complete, Ipsos delivered a full dataset to Deloitte and the European Commission. This chapter provides details on which documents were delivered, and what they contain.

Table 25- Overview of delivered data

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Tables_ICT_ HT_wtg_SC _perc_0607 18	wgt_SC_perc_060718.xl	All of the files in this section refer to the Head Teacher survey. The data is weighted on the total number of schools in the country.
	ICT_HT_Ban2_ISCED3a_ wgt_SC_perc- 060718.xlsl	Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)
	ICT_HT_Ban2_ISCED2_ wgt_SC_perc_050718.xl sl	Files labelled "Ban1" present data using the following sub-categories:
	ICT_HT_Ban2_ISCED1_ wgt_SC_perc_050718.xl	<ul> <li>Number of teachers in the school (1- 15; 16-30;&gt;30)</li> </ul>
	sl	<ul> <li>Type of community of school location (rural; urban)</li> </ul>
	ICT_HT_Ban1_ISCED3b_ wgt_SC_perc_060718.xl sl	<ul> <li>Presence of an ICT coordinator (yes; no)</li> </ul>
	ICT_HT_Ban1_ISCED3a_ wgt_SC_perc_060718.xl sl	<ul> <li>Policy regarding BYOD Personal computer (yes; no)</li> </ul>
	ICT_HT_Ban1_ISCED2_	<ul> <li>Policy regarding BYOD Personal mobile phone or smartphone (yes; no)</li> </ul>
	wgt_SC_perc_050718.xl sl	<ul> <li>Policy regarding BYOD Teachers (yes; no)</li> </ul>
	ICT_HT_Ban1_ISCED1_ wgt_SC_perc_050718.xl sl	<ul> <li>Policy regarding BYOD Students (yes; no)</li> </ul>
Tables_ICT_ HT_wtg_ST _perc_0607	ICT_HT_Ban2_ISCED3b_ wgt_ST_perc_060718.xls l	All of the files in this section refer to the Head Teacher survey. The data is weighted on the total number of students in the country.
18	ICT_HT_Ban2_ISCED3a_ wgt_ST_perc- 060718.xlsl	Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)
	ICT_HT_Ban2_ISCED2_ wgt_ST_perc_050718.xls	Files labelled "Ban1" present data using the following sub-categories:
	ICT_HT_Ban2_ISCED1_	<ul> <li>Number of teachers in the school (1- 15; 16-30;&gt;30)</li> </ul>
	wgt_ST_perc_050718.xls	<ul> <li>Type of community of school location (rural; urban)</li> </ul>
	ICT_HT_Ban1_ISCED3b_ wgtST_perc_060718.x lsl	<ul> <li>Presence of an ICT coordinator (yes; no)</li> </ul>
	ICT_HT_Ban1_ISCED3a_ wgt_ST_perc_060718.xls	<ul> <li>Policy regarding BYOD Personal computer (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Personal mobile phone or smartphone (yes; no)</li> </ul>

	ICT_HT_Ban1_ISCED2_	<ul> <li>Policy regarding BYOD Teachers (yes;</li> </ul>
	wgt_ST_perc_050718.xls	no)
	ICT_HT_Ban1_ISCED1_ wgt_ST_perc_050718.xls l	<ul> <li>Policy regarding BYOD Students (yes; no)</li> </ul>
Tables_ICT_ PA_perc_06 0718	ICT_Pa_Ban2_perc_0607 18.xlsx	All of the files in this section refer to the Parent survey. The data is non-weighted.
0718	ICT_PA_Ban2_ISCED3b_ perc_060718.xlsx	Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)
	ICT_PA_Ban2_ISCED3a_ perc_060718.xlsx	Files labelled "Ban1" present data using the following sub-categories:
	ICT_PA_Ban2_ISCED2_p erc_060718.xlsx	<ul> <li>Grade of the child (ISCED 1;2;3A;3B)</li> </ul>
	ICT_PA_Ban2_ISCED1_p erc_060718.xlsx	<ul><li>Number of children (1;2;3;3+)</li></ul>
	ICT_PA_Ban1_perc_060	<ul> <li>Level of confidence in ability to recognise fake news (confident; not confident)</li> </ul>
	718.xlsx	• Age (Less than 30 or 30-35; 36-45;46+)
	ICT_PA_Ban1_ISCED3b_ perc_060718.xlsx	<ul> <li>Highest level of education (Low; intermediate; high)</li> </ul>
	ICT_PA_Ban1_ISCED3a_ perc_060718.xlsx	<ul> <li>Awareness of child online behaviour (aware; not aware)</li> </ul>
	ICT_PA_Ban1_ISCED2_p erc_060718.xlsx	<ul> <li>Level of ICT usage (none or little; basic; intermediate; high)</li> </ul>
	ICT_PA_Ban1_ISCED1_p erc_060718.xlsx	The files "ICT_Pa_Ban2_perc_060718.xlsl" and "ICT_PA_Ban1_perc_060718.xlsl" present results aggregated across all ISCED levels.
		Files which contain an ISCED level in the name refer specifically to that ISCED level.
T. I.I. TOT	TOT DA D Q TOOFDOL	
Tables_ICT_ PA_wgt_ST _perc_0607	ICT_PA_Ban2_ISCED3b_ wgt_ST_perc_060718.xls x	All of the files in this section refer to the Parent survey. The data is weighted on the total number of students in the country.
18	ICT_PA_Ban2_ISCED3a_ wgt_ST_perc_060718.xls x	Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)
	ICT_PA_Ban2_ISCED3_w gt_ST_perc_060718.xlsx	Files labelled "Ban1" present data using the following sub-categories:
	ICT_PA_Ban2_ISCED2_w gt_ST_perc_060718.xlsx	Grade of the child (ISCED 1;2;3A;3B)  Number of children (1:3:3:3.1)
		<ul><li>Number of children (1;2;3;3+)</li></ul>

<ul> <li>or almost never; often; very often)</li> <li>ICT_ST_Ban1_ISCED3b_         wgt_ST_perc_060718.xls         x</li> <li>Age (&lt;15 years; 15-18 years; &gt;18 years)</li> </ul>			
wgt_ST_perc_060718.xls x  Level of education parents (low; intermediate; high)  ICT_ST_Ban1_ISCED3_ wgt_ST_perc_060718.xls x  ICT_ST_Ban1_ISCED2_ wgt_ST_perc_060718.xls x		wgt_ST_perc_060718.xls x  ICT_ST_Ban2_ISCED2_ wgt_ST_perc_060718.xls x  ICT_ST_Ban1_ISCED3b_ wgt_ST_perc_060718.xls x  ICT_ST_Ban1_ISCED3a_ wgt_ST_perc_060718.xls x  ICT_ST_Ban1_ISCED3_ wgt_ST_perc_060718.xls x  ICT_ST_Ban1_ISCED3_ wgt_ST_perc_060718.xls x	<ul> <li>following sub-categories:</li> <li>Grade (ISCED 1;2;3A;3B)</li> <li>Tools used at school for learning (never or almost never; often; very often)</li> <li>Gender (female; male)</li> <li>Age (&lt;15 years; 15-18 years; &gt;18 years)</li> <li>Level of education parents (low; intermediate; high)</li> <li>Confidence level in ICT (basic; intermediate; high)</li> </ul>
by-country level (countries are in the cross-breaks)  ICT_TC_Ban2_ISCED3a_perc_060718.xlsx  ICT_TC_Ban2_ISCED3_perc_060718.xlsx  ICT_TC_Ban2_ISCED2_perc_060718.xlsx  ICT_TC_Ban2_ISCED1_perc_060718.xlsx  ICT_TC_Ban1_ISCED3b_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3_perc_060718.xlsx  ICT_TC_Ban1_ISCED3_perc_060718.xlsx  ICT_TC_Ban1_ISCED1_perc_060718.xlsx  ICT_TC_Ban1_ISCED1_perc_060718.xlsx	TC_perc_06	ICT_TC_Ban2_ISCED3b_perc_060718.xlsx  ICT_TC_Ban2_ISCED3a_perc_060718.xlsx  ICT_TC_Ban2_ISCED3_perc_060718.xlsx  ICT_TC_Ban2_ISCED2_perc_060718.xlsx  ICT_TC_Ban2_ISCED1_perc_060718.xlsx  ICT_TC_Ban1_perc_060718.xlsx  ICT_TC_Ban1_ISCED3b_perc_060718.xlsx  ICT_TC_Ban1_ISCED3b_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3a_perc_060718.xlsx  ICT_TC_Ban1_ISCED3_perc_060718.xlsx  ICT_TC_Ban1_ISCED3_perc_060718.xlsx  ICT_TC_Ban1_ISCED1_perc_060718.xlsx	Teacher survey. The data is non-weighted.  Files labelled "Ban2" present data on a country-by-country level (countries are in the cross-breaks)  Files labelled "Ban1" present data using the following sub-categories:  • Time spent in ICT training (no time; quite some time; a lot of time)  • Gender (female; male)  • Time of experiences in teaching the school (3 years or less; 4-20 years; 21-40 years; more than 40 years; 30 years or less)  • Age (31-45 years; 46-60 years)  • Teacher confidence for participating in social networks (very; quite; not confident)  • Teacher confidence (no or little ICT usage; basic ICT usage; intermediate ICT usage; high ICT usage)  The files "ICT_TC_Ban2_perc_060718.xlsx" and "ICT_TC_Ban1_perc_060718.xlsx" present results aggregated across all ISCED levels.  Files which contain an ISCED level in the name

Tables_ICT_ TC_wgt_ST _perc_0607 18	wgt_ST_perc_060718.xls x ICT_TC_Ban2_ISCED3a_ wgt_ST_perc_060718.xls			
10		Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)		
	ICT_TC_Ban2_ISCED3_ wgt_ST_perc_060718.xls x	Files labelled "Ban1" present data using the following sub-categories:		
	ICT_TC_Ban2_ISCED2_ wgt_ST_perc_060718.xls	<ul> <li>Time spent in ICT training (no time; quite some time; a lot of time)</li> </ul>		
	x	• Gender (female; male)		
	ICT_TC_Ban2_ISCED2_ wgt_ST_perc_060718.xls x	<ul> <li>Time of experiences in teaching the school (3 years or less; 4-20 years; 21- 40 years; more than 40 years; 30 years or less)</li> </ul>		
	ICT_TC_Ban2_ISCED1_ wgt_ST_perc_060718.xls	• Age (31-45 years; 46-60 years)		
	ICT_TC_Ban1_ISCED3b_ wgt_ST_perc_060718.xls x	<ul> <li>Teacher confidence for participating in social networks (very; quite; not confident)</li> </ul>		
	ICT_ST_Ban1_ISCED3a_ wgt_ST_perc_060718.xls x	Teacher confidence (no or little ICT usage; basic ICT usage; intermediate ICT usage; high ICT usage)		
	ICT_ST_Ban1_ISCED3_ wgt_ST_perc_060718.xls x			
	ICT_ST_Ban1_ISCED2_ wgt_ST_perc_060718.xls x			
	ICT_ST_Ban1_ISCED1_ wgt_ST_perc_060718.xls x			
ICT_HT_ISC ED3_wgt_p erc_180718	ICT_HT_Ban2_ISCED3_ wgt_ST_perc_180718.xls x	All of the files in this section refer to the Head Teacher survey. They are filtered to only show aggregated ISCED 3 data (ISCED 3A and ISCED 3B).		
	ICT_HT_Ban2_ISCED3_ wgt_SC_perc_180718.xl sx	In the files "ICT_HT_Ban2_ISCED3_wgt_ST_perc_180718.x lsx" and		
	ICT_HT_Ban1_ISCED3_ wgt_ST_perc_180718.xls x	"ICT_HT_Ban1_ISCED3_wgt_ST_perc_180718.x lsx" the data is weighted on the total number of students in the country.		

	ICT_HT_Ban1_ISCED3_ wgt_SC_perc_180718.xl sx	In the files "ICT_HT_Ban2_ISCED3_wgt_SC_perc_180718. xlsx" and "ICT_HT_Ban1_ISCED3_wgt_SC_perc_180718. xlsx" the data is weighted on the total number of schools in the country.
		Files labelled "Ban2" present data on a country- by-country level (countries are in the cross- breaks)
		Files labelled "Ban1" present data using the following sub-categories:
		<ul> <li>Number of teachers in the school (1- 15; 16-30;&gt;30)</li> </ul>
		<ul> <li>Type of community of school location (rural; urban)</li> </ul>
		<ul> <li>Presence of an ICT coordinator (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Personal computer (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Personal mobile phone or smartphone (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Teachers (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Students (yes; no)</li> </ul>
ICT_HEAD_ extra DP Spec_v2_17		This excel file provides further updated table specifications for the head teacher survey data. It requests the following computations:
072018		<ul> <li>Number of students per computer (desktop, laptop, notebook, tablets)</li> </ul>
		<ul> <li>Number of students per tablets (with or without internet)</li> </ul>
		<ul> <li>Number of students per tablet with internet</li> </ul>
		<ul> <li>Number of students per digital reader with internet</li> </ul>
		<ul> <li>Number of students per interactive whiteboard with internet</li> </ul>
		Share of students in schools where computers are located in the classroom
		<ul> <li>Percentage of students in schools with broadband</li> </ul>

		Broadband speed
		<ul> <li>Percentage of students in schools without a website, external email addresses for teachers and students, and a wired or wireless local area network</li> </ul>
ICT_HT_wgt _SC_perc_e xtra_20072 018	ICT_HT_Ban2_ISCED3b_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban2_ISCED3a_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban2_ISCED3_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban2_ISCED2_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban2_ISCED1_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED3b_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED3a_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED3_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED3_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED3_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED1_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED1_ wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED1_ wgt_SC_perc_extra_200 718.xlsx	The files in the section provide the additional computations requested in the tab spec form. Data is weighted on the total number of schools in the country.  Files labelled "Ban2" present this additional data on a country-by-country level (countries are in the cross-breaks)  Files labelled "Ban1" present this additional data using the following sub-categories:  Number of teachers in the school (1-15; 16-30;>30)  Type of community of school location (rural; urban)  Presence of an ICT coordinator (yes; no)  Policy regarding BYOD Personal computer (yes; no)  Policy regarding BYOD Personal mobile phone or smartphone (yes; no)  Policy regarding BYOD Teachers (yes; no)  Policy regarding BYOD Students (yes; no)
ICT_HT_wgt _ST_perc_e xtra_20071 8	ICT_HT_Ban2_ISCED3b_ wgt_ST_perc_extra_200 718.xlsx ICT_HT_Ban2_ISCED3a_ wgt_ST_perc_extra_200 718.xlsx	The files in the section also provide the additional computations requested in the tab spec form, this time weighted on the total number of students in the country.  Files labelled "Ban2" present data on a country-by-country level (countries are in the cross-breaks)

	ICT_HT_Ban2_ISCED3_ wgt_ST_perc_extra_200 718.xlsx	Files labelled "Ban1" present data using the following sub-categories:
	ICT_HT_Ban2_ISCED2_ wgt_ST_perc_extra_200 718.xlsx	• Grade (ISCED 1;2;3A;3B)
		<ul> <li>Tools used at school for learning (never or almost never; often; very often)</li> </ul>
	ICT_HT_Ban2_ISCED1_ wgt ST perc extra 200	Gender (female; male)
	718.xlsx	<ul> <li>Age (&lt;15 years; 15-18 years; &gt;18 years)</li> </ul>
	ICT_HT_Ban1_ISCED3b_ wgt_ST_perc_extra_200 718.xlsx	<ul> <li>Level of education parents (low; intermediate; high)</li> </ul>
	ICT_HT_Ban1_ISCED3a_ wgt_ST_perc_extra_200 718.xlsx	Confidence level in ICT (basic; intermediate; high)
	ICT_HT_Ban1_ISCED3_ wgt_ST_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED2_ wgt_ST_perc_extra_200 718.xlsx  ICT_HT_Ban1_ISCED1_ wgt_ST_perc_extra_200 718.xlsx	Files labelled "Ban2" present this additional data on a country-by-country level (countries are in the cross-breaks)
		Files labelled "Ban1" present this additional data using the following sub-categories:
		<ul> <li>Number of teachers in the school (1- 15; 16-30;&gt;30)</li> </ul>
		<ul> <li>Type of community of school location (rural; urban)</li> </ul>
		<ul> <li>Presence of an ICT coordinator (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Personal computer (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Personal mobile phone or smartphone (yes; no)</li> </ul>
		<ul> <li>Policy regarding BYOD Teachers (yes; no)</li> </ul>
		Policy regarding BYOD Students (yes; no)
ICT_STUDE NT_extra DP Spec_v1_17 072018		This excel file provides a further updated table specifications for the student survey data. It requests the following computations:
		<ul> <li>How often do you use the following at school for learning? - Computer (e.g. desktop, laptop or notebook)</li> </ul>
		<ul> <li>How often do you use the following at school for learning? – Tablet</li> </ul>
		<ul> <li>How often do you use the following at school for learning? – Smartphone</li> </ul>

- How often do you use the following at school for learning? – Internet
- How often do you use the following in lessons? - Digital books and textbooks
- How often do you use the following in lessons? - Exercise software, online quizzes and tests
- How often do you use the following in lessons? - Learning applications on a smartphone or a tablet
- How often do you use the following in lessons? - Text edition tools (e.g. Word)
- How often do you use the following in lessons? - Image edition tools (e.g. Photoshop, GIMP)
- How often do you use the following in lessons? - Multimedia production tools (e.g. PowerPoint, video editing, digital recording)
- How often do you use the following in lessons? - Broadcasting tools (publish podcast, upload to a video-sharing platform, etc.)
- How often do you use the following in lessons? - Data logging tools (e.g. temperature rise)
- How often do you use the following in lessons? - Computer simulations (interactive programme simulating real world phenomena in which you can make changes and see the consequences)
- How often do you use the following in lessons? - Digital learning games, computer/video games
- How often do you use the following for learning purpose during lessons? - Your own laptop or notebook brought from home
- How often do you use the following for learning purpose during lessons? - Your own tablet brought from home
- How often do you use the following for learning purpose during lessons? - Your own mobile phone or smartphone brought from home

ICT_S_wgt_ ST_perc_ex tra_200718	ICT_ST_Ban2_ISCED3b_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban2_ISCED3a_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban2_ISCED3_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban2_ISCED2_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3b_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3a_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3a_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3_ wgtST_perc_extra_20 0718.xlsx  ICT_ST_Ban1_ISCED3_ wgtST_perc_extra_20 0718.xlsx	The files in this section provide the additional computations as requested in the updated table specifications above. Data is weighted on the total number of students in the country.
ICT_TEACH ER_extra DP Spec_v1_17 072018		<ul> <li>This excel file provides further updated table specifications for the student survey data. It requests the following computations:</li> <li>For what percentage of time have you used computers and/or the Internet in class in the past 12 months?</li> <li>How often do you do the following activities in relation to teaching to the target class? -Browse / search the Internet to collect information to prepare lessons</li> <li>How often do you do the following activities in relation to teaching to the target class? -Browse or search the Internet to collect learning material or resources to be used by students during lessons</li> <li>How often do you do the following activities in relation to teaching to the target class? -Evaluate digital learning resources in the subject you teach</li> <li>How often do you do the following activities in relation to teaching to the</li> </ul>

target class? -Download/upload/browse material from the school's website or a virtual learning environment / learning platform How often do you do the following activities in relation to teaching to the target class? -Communicate with

How often do you do the following activities in relation to teaching to the target class? -Communicate with students using mobile applications on a smartphone or a tablet (e.g. WhatsApp, Telegram)

students by email

- How often do you do the following activities in relation to teaching to the target class? -Use online tools/ platforms on a computer (e.g. Showbie) to communicate with students
- How often do you do the following activities in relation to teaching to the target class? -Post home work for students on the school website, a learning platform or a cloud storage service (e.g. Dropbox, Google Drive)
- How often do you do the following activities in relation to teaching to the target class? -Use applications to prepare presentations for lessons
- How often do you do the following activities in relation to teaching to the target class? -Create your own digital learning materials for students (e.g. prepare digital labs exercises, record your own lectures for students to refer to later)

How often do you do the following activities in relation to teaching to the target class? -Prepare standard exercises and tasks for students (e.g. use Word to prepare exercises and print the document to then distribute to students)

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ICT TC wgt ICT TC Ban2 ISCED3b wgt ST perc extra 200 718.xlsx

> ICT\_TC\_Ban2\_ISCED3a\_ wgt ST perc extra 200 718.xlsx

The files in this section provide the additional computations as laid out above. Data is weighted on the total number of students in the country.

ICT_HT_TO TAL_ISCED _wgt_perc_ extra_v2_2 40718	ICT_TC_Ban2_ISCED3_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban2_ISCED2_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban2_ISCED1_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED3b_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED3a_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED3_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED3_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED2_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED1_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED1_ wgt_ST_perc_extra_200 718.xlsx  ICT_TC_Ban1_ISCED1_ wgt_ST_perc_extra_200 718.xlsx  ICT_HT_Ban2_TOTAL_IS CED_wgt_ST_perc_extra_200 718.xlsx  ICT_HT_Ban1_TOTAL_IS CED_wgt_SC_perc_extra_200 718.xlsx  ICT_HT_Ban1_TOTAL_IS CED_wgt_ST_perc_extra_200 718.xlsx	These files provide all of the additional computations as laid out above.  The files "ICT_HT_Ban2_TOTAL_ISCED_wgt_ST_perc_ex tra_v2_24072018.xlsx" and "ICT_HT_Ban1_TOTAL_ISCED_wgt_ST_perc_ex tra_v2_240718.xlsx" are weighted on the total number of students in the country.  The files "ICT_HT_Ban2_TOTAL_ISCED_wgt_SC_perc_ex tra_230718.xlsx" and "ICT_HT_Ban1_TOTAL_ISCED_wgt_SC_perc_ex tra_230718.xlsx" are weighted on the total number of schools in the country.
ICT_HEAD_ second extra DP Spec_v1_22 082018		This excel file provides a further updated table specifications for the head teacher survey data. It requests the following new computations:  • Number of students per computer (desktop, laptop, notebook, tablets) in ISCED 3 only schools

- Number of students per tablets (with or without internet) in ISCED 3 only schools
- Number of students per tablets with internet in ISCED 3 only schools
- Number of students per digital reader in ISCED 3 only schools
- Number of students per interactive whiteboard in ISCED 3 only schools
- By which of the following means does your school mainly have access to the Internet?
- Which broadband speed best describes that which your school receives from the telecom provider?
- Approximately, what proportion of this equipment (computers, interactive white boards, laptops, mobile devices) is fully operational this school year (2017-2018)?
- Does your school have an ICT coordinator?
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT should be used for students to do exercises and practice
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT should be used for students to retrieve information
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT should be used for students to work and learn in a collaborative way
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT should be used for students to work and learn in an autonomous way
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT should be used for students to solve problems
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT use in

teaching and learning positively impacts on students' motivation

- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' achievements
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)
- To what extent do you disagree or agree with the following statements about the use of ICT at school? - ICT use in teaching and learning is essential to prepare students to live and work in the 21st century

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ICT\_HT\_wgt ICT\_HT\_Ban2\_TOTAL\_IS CED\_wgt\_SC\_perc\_extra 2 280818.xlsx

> ICT HT Ban2 ISCED3b wgt\_SC\_perc\_extra2\_28 0818.xlsx

> ICT HT Ban2 ISCED3a wgt\_SC\_perc\_extra2\_28 0818.xlsx

ICT\_HT\_Ban2\_ISCED3\_ wgt SC perc extra2 28 0818.xlsx

ICT HT Ban2 ISCED2 wgt\_SC\_perc\_extra2\_28 0818.xlsx

ICT HT Ban2 ISCED1 wgt\_SC\_perc\_extra2\_28 0818.xlsx

ICT\_HT\_Ban1\_TOTAL\_IS CED wgt SC perc extra 2 280818.xlsx

These files provide the new computations, as laid out above. Data is weighted on the total number of schools in the country.

	ICT_HT_Ban1_ISCED3b_ wgt_SC_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED3a_ wgt_SC_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED3_ wgt_SC_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED2_ wgt_SC_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED1_ wgt_SC_perc_extra2_28 0818.xlsx	
_ST_perc_e xtra2_2808	ICT_HT_Ban2_TOTAL_IS CED_wgt_ST_perc_extra 2_280818.xlsx	These files also provide all of the additional computations to the head teacher survey data as laid out above, however the data is weighted
18	ICT_HT_Ban2_ISCED3b_ wgt_ST_perc_extra2_28 0818.xlsx	on the total number of students in the country.
	ICT_HT_Ban2_ISCED3a_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban2_ISCED3_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban2_ISCED2_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban2_ISCED1_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_TOTAL_IS CED_wgt_ST_perc_extra 2_280818.xlsx	
	ICT_HT_Ban1_ISCED3b_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED3a_ wgt_ST_perc_extra2_28 0818.xlsx	
	ICT_HT_Ban1_ISCED3_ wgt_ST_perc_extra2_28 0818.xlsx	

	ICT_HT_Ban1_ISCED2_ wgt_ST_perc_extra2_28 0818.xlsx ICT_HT_Ban1_ISCED1_ wgt_ST_perc_extra2_28 0818.xlsx	
ICT_STUDE NT_second extra DP		This file provides a further updated table specifications for the student survey data. It requests the following computations:
Spec_v1_21 082018		<ul> <li>Have you used a desktop computer, a laptop or notebook at school in the last 3 months?</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Digital books and textbooks</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Exercise software, online quizzes and tests</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Learning applications on a smartphone or a tablet</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Text edition tools (e.g. Word)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Image edition tools (e.g. Photoshop, GIMP)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Multimedia production tools (e.g. PowerPoint, video editing, digital recording)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Broadcasting tools (publish podcast, upload to a video-sharing platform, etc.)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Data logging tools (e.g. temperature rise)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Computer simulations (interactive programme simulating real world phenomena in which you can make changes and see the consequences)</li> </ul>
		<ul> <li>How often do you use the following in lessons? - Digital learning games, computer/video games</li> </ul>
		<ul> <li>Do you consider using ICT (computers, tablets, smartphones) during lessons has</li> </ul>

- a positive impact on the following? You concentrate more on what you're learning
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - You try harder in what you are learning
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - You feel more independent in your learning
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - You understand more easily what you're learning
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - You remember more easily what you've learnt
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - ICT enables you to work better with other students on tasks
- Do you consider using ICT (computers, tablets, smartphones) during lessons has a positive impact on the following? - ICT improves the atmosphere in class (students are more engaged, there is less disruption)
- Thinking about your experience with computers: to what extent do you agree with the following statements? - It is really important for me to work with a computer for learning
- Thinking about your experience with computers: to what extent do you agree with the following statements? - Using a computer for learning is really fun
- Thinking about your experience with computers: to what extent do you agree with the following statements? - I use a computer for learning because I'm very interested in computers
- Thinking about your experience with computers: to what extent do you agree with the following statements? - I lose

track of	of	time	when	I'm	learning	with	the
compu	ıte	er					

- Thinking about your experience with computers: to what extent do you agree with the following statements? - It's really worth using a computer because it will help me in the future
- Thinking about your experience with computers: to what extent do you agree with the following statements? - I use a computer to learn as it will help me in the work that I want to do later on
- Thinking about your experience with computers: to what extent do you agree with the following statements? - I learn things using computers that will help me to get a job
- Thinking about your experience with computers: to what extent do you agree with the following statements? -Learning with computer is important for me because I need it for what I want to study later on

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ICT ST wgt ICT ST Ban2 ISCED3b wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT\_ST\_Ban2\_ISCED3a\_ wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT ST Ban2 ISCED3 wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT ST Ban2 ISCED2 wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT\_ST\_Ban1\_ISCED3b\_ wgt\_ST\_perc\_extra2\_27 0818.xlsx

ICT ST Ban1 ISCED3a wgt\_ST\_perc\_extra2\_27 0818.xlsx

ICT\_ST\_Ban1\_ISCED3\_ wgt\_ST\_perc\_extra2\_27 0818.xlsx

ICT ST Ban1 ISCED2 wgt\_ST\_perc\_extra2\_27 0818.xlsx

These files provide the new computations regarding the student survey, as laid out above. Data is weighted on the total number of students in the country.

ICT\_TEACH ER\_second extra DP Spec\_v1\_21 082018 This file provides a further updated table specifications for the student survey data. It requests the following computations:

- For how many years have you been using computers and/or the Internet at any school?
- Is participation in ICT training on digital technologies compulsory for a teacher in your subject?
- In total, how much time have you been involved during the past two school years in the above professional development opportunities?
- How often do you do the following activities in relation to teaching to the target class? - Browse / search the Internet to collect information to prepare lessons
- How often do you do the following activities in relation to teaching to the target class? - Browse or search the Internet to collect learning material or resources to be used by students during lessons
- How often do you do the following activities in relation to teaching to the target class? - Evaluate digital learning resources in the subject you teach
- How often do you do the following activities in relation to teaching to the target class? - Download/upload/browse material from the school's website or a virtual learning environment / learning platform
- How often do you do the following activities in relation to teaching to the target class? - Communicate with students by email
- How often do you do the following activities in relation to teaching to the target class? - Communicate with students using mobile applications on a smartphone or a tablet (e.g. WhatsApp, Telegram)
- How often do you do the following activities in relation to teaching to the target class? - Use online tools/ platforms on a computer (e.g. Showbie) to communicate with students

- How often do you do the following activities in relation to teaching to the target class? - Post home work for students on the school website, a learning platform or a cloud storage service (e.g. Dropbox, Google Drive)
- How often do you do the following activities in relation to teaching to the target class? - Use applications to prepare presentations for lessons
- How often do you do the following activities in relation to teaching to the target class? - Create your own digital learning materials for students (e.g. prepare digital labs exercises, record your own lectures for students to refer to later)
- How often do you do the following activities in relation to teaching to the target class? - Prepare standard exercises and tasks for students (e.g. use Word to prepare exercises and print the document to then distribute to students)
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? - I present, demonstrate and explain to the whole class
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? - I support and explain things to individual students
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students work in groups
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students work on exercises or tasks individually
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students work on projects
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -

- Students give presentations to the whole class
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students process and analyse data
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students participate in assessing their work
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students take tests and assessments
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students are engaged in inquiry-based activities
- To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)? -Students discuss ideas with other students and the teacher
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT should be used for students to do exercises and practise
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT should be used for students to retrieve information
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT should be used for students to work in a collaborative way
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT should be used for students to learn in an autonomous way
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT

should be used for students to learn to use them to solve problems

- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' motivation
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' achievement
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT use in teaching and learning positively impacts on students' competence in transversal skills (learning to learn, social competences, etc.)
- To what extent do you disagree or agree with each of the following statements about the use of ICT at school? - ICT use in teaching and learning is essential to prepare students to live and work in the 21st century

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ICT\_TC\_wgt ICT\_TC\_Ban2\_ISCED3b\_ wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT\_TC\_Ban2\_ISCED3a\_ wgt ST perc extra2 27 0818.xlsx

> ICT TC Ban2 ISCED3 wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT\_TC\_Ban2\_ISCED2\_ wgt\_ST\_perc\_extra2\_27 0818.xlsx

> ICT\_TC\_Ban2\_ISCED1\_ wgt ST perc extra2 27 0818.xlsx

These files provide the new computations regarding the teacher survey, as laid out above. Data is weighted on the total number of students in the country.

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	ICT_TC_Ban1_ISCED3b_ wgt_ST_perc_extra2_27 0818.xlsx	
	ICT_TC_Ban1_ISCED3a_ wgt_ST_perc_extra2_27 0818.xlsx	
	ICT_TC_Ban1_ISCED3_ wgt_ST_perc_extra2_27 0818.xlsx	
	ICT_TC_Ban1_ISCED2_ wgt_ST_perc_extra2_27 0818.xlsx	
	ICT_TC_Ban1_ISCED1_ wgt_ST_perc_extra2_27 0818.xlsx	
	ICT_PA_Ban2_ISCED3b_ wgt_ST_perc_261018.xls x	These files provide parent survey data. Data is weighted on the total number of students in the country.
	ICT_PA_Ban2_ISCED3a_ wgt_ST_perc_261018.xls x	
	ICT_PA_Ban2_ISCED3_w gt_ST_perc_261018.xlsx	
	ICT_PA_Ban2_ISCED2_w gt_ST_perc_261018.xlsx	
	ICT_PA_Ban2_ISCED1_w gt_ST_perc_261018.xlsx	
	ICT_PA_Ban1_ISCED3b_ wgt_ST_perc_261018.xls x	
	ICT_PA_Ban1_ISCED3a_ wgt_ST_perc_261018.xls x	
	ICT_PA_Ban1_ISCED3_w gt_ST_perc_261018.xlsx	
	ICT_PA_Ban1_ISCED2_w gt_ST_perc_261018.xlsx	
	ICT_PA_Ban1_ISCED1_w gt_ST_perc_261018.xlsx	
	ICT_TC_Ban2_ISCED3b_ wgt_ST_perc_extra2_26 1018.xlsx	

ICT\_TC\_Ban2\_ISCED3b\_ wgt\_ST\_perc\_extra1\_26 1018.xlsx

ICT\_TC\_Ban2\_ISCED 3b\_wgt\_ST\_perc\_26101 8.xlsx

ICT\_TC\_Ban2\_ISCED
3a\_wgt\_ST\_perc\_extra2
261018.xlsx

ICT\_TC\_Ban2\_ISCED
3a\_wgt\_ST\_perc\_extra1
\_261018.xlsx

ICT\_TC\_Ban2\_ISCED
3a\_wgt\_ST\_perc\_26101
8.xlsx

ICT\_TC\_Ban2\_ISCED 2\_wgt\_ST\_perc\_extra2\_ 261018.xlsx

ICT\_TC\_Ban2\_ISCED
2\_wgt\_ST\_perc\_extra1\_
261018.xlsx

ICT\_TC\_Ban2\_ISCED 2\_wgt\_ST\_perc\_261018. xlsx

ICT\_TC\_Ban2\_ISCED 1\_wgt\_ST\_perc\_extra2\_ 261018.xlsx

ICT\_TC\_Ban2\_ISCED 1\_wgt\_ST\_perc\_extra1\_ 261018.xlsx

ICT\_TC\_Ban2\_ISCED 1\_wgt\_ST\_perc\_261018. xlsx

ICT\_TC\_Ban1\_ISCED3b\_ wgt\_ST\_perc\_extra2\_26 1018.xlsx

ICT\_TC\_Ban1\_ISCED3b\_ wgt\_ST\_perc\_extra1\_26 1018.xlsx

ICT\_TC\_Ban1\_ISCED 3b\_wgt\_ST\_perc\_26101 8.xlsx

ICT\_TC\_Ban1\_ISCED 3a\_wgt\_ST\_perc\_extra2 \_261018.xlsx

ICT_TC_Ban1_ISCED 3a_wgt_ST_perc_extra1 _261018.xlsx	
ICT_TC_Ban1_ISCED 3a_wgt_ST_perc_26101 8.xlsx	
ICT_TC_Ban1_ISCED 2_wgt_ST_perc_extra2_ 261018.xlsx	
ICT_TC_Ban1_ISCED 2_wgt_ST_perc_extra1_ 261018.xlsx	
ICT_TC_Ban1_ISCED 2_wgt_ST_perc_261018. xlsx	
ICT_TC_Ban1_ISCED 1_wgt_ST_perc_extra2_ 261018.xlsx	
ICT_TC_Ban1_ISCED 1_wgt_ST_perc_extra1_ 261018.xlsx	
ICT_TC_Ban1_ISCED 1_wgt_ST_perc_261018. xlsx	
ICT_PA_Ban2_TOTAL_IS CED_wgt_ST_perc_wgt_ ST_perc_extra1_311018 .xlsx	These files provide additional computation regarding the parent survey. Data is weighted on the total number of student in the country. The additional computations are:
ICT_PA_Ban2_ISCED3b_ wgt_ST_perc_extra1_31 1018.xlsx	<ul> <li>What type of Internet connection do you have at home?</li> </ul>
ICT_PA_Ban2_ISCED3b_ wgt_ST_perc_261018.xls x	<ul> <li>How often do you do the following? - Talk to your child about what s/he does with ICT or the Internet</li> </ul>
ICT_PA_Ban2_ISCED3a_ wgt_ST_perc_extra1_31 1018.xlsx	<ul> <li>How often do you do the following? - Stay nearby when your child uses ICT or the Internet</li> </ul>
ICT_PA_Ban2_ISCED3_w gt_ST_perc_extra1_311 018.xlsx	<ul> <li>How often do you do the following? - Sit with your child while s/he uses ICT or the Internet</li> </ul>
ICT_PA_ban2_ISCED2_w gt_ST_perc_extra1_311 018.xlsx	<ul> <li>How often do you do the following? - Do activities together with ICT or the Internet (e.g. play games, watch online videos, use social networks)</li> </ul>
ICT_PA_ban2_ISCED1_w gt_ST_perc_extra1_311 018.xlsx	<ul> <li>How often do you do the following? - Assist your child in benefiting from the opportunities offered by ICT and the</li> </ul>

ICT\_PA\_Ban1\_TOTAL IS CED\_wgt\_ST\_perc\_extra 1 311018.xlsx

ICT PA Ban1 ISCED3b wgt ST perc extra1 31 1018.xlsx

ICT\_PA\_Ban1\_ISCED3a\_ wgt\_ST\_perc\_extra1\_31 1018.xlsx

ICT PA Ban1 ISCED3 w gt\_ST\_perc\_extra1\_311 018.xlsx

ICT PA Ban1 ISCED2 w gt\_ST\_perc\_extra1\_311 018.xlsx

ICT PA Ban1 ISCED1 w gt\_ST\_perc\_extra1\_311 018.xlsx

- Internet (e.g. learning, communication, entertainment, creativity, self-expression and civic participation)
- How often do you do the following? -Encourage your child to explore and learn things on the Internet
- Are you confident doing the following? -Number of 'Yes' answers
- Do you consider that the use of ICT at school has a positive impact on the following? - My child understands more easily what s/he learns
- Do you consider that the use of ICT at school has a positive impact on the following? - My child remembers what s/he has learnt more easily
- Do you consider that the use of ICT at school has a positive impact on the following? - My child concentrates better
- Do you consider that the use of ICT at school has a positive impact on the following? - My child is more motivated to learn
- Do you consider that the use of ICT at school has a positive impact on the following? - My child can learn at his/her own pace
- Do you consider that the use of ICT at school has a positive impact on the following? - Students collaborate better
- Do you consider that the use of ICT at school has a positive impact on the following? - Students and teachers communicate better
- Do you consider that the use of ICT at school has a positive impact on the following? - Learning to use ICT and Internet will later help my child finding a job in the labour market

\_ST\_perc\_e xtra3\_0111 18

ICT\_ST\_wgt ICT\_ST\_Ban2\_TOTAL\_IS CED\_wgt\_ST\_perc\_extra 3\_011118.xlsx

> ICT ST Ban2 ISCED3b wgt\_ST\_perc\_extra3\_01 1118.xlsx

These files provide additional computations regarding the student survey. Data is weighted by the total number of student in the country. The additional computations are:

How often do you take part in the following activities in your free time, at home or any place other than school? -Reading and watching the news online

ICT\_ST\_Ban2\_ISCED3a\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban2\_ISCED3\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban2\_ISCED2\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban2\_ISCED1\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

Ι

ICT\_ST\_Ban1\_ISCED3b\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban1\_ISCED3a\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban1\_ISCED3\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban1\_ISCED2\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

ICT\_ST\_Ban1\_ISCED1\_ wgt\_ST\_perc\_extra3\_01 1118.xlsx

- How often do you take part in the following activities in your free time, at home or any place other than school? -Searching online for practical information (e.g. seats at a match/concert, shopping, train times, health)
- How often do you take part in the following activities in your free time, at home or any place other than school? -Searching different sources online for information and learning about a particular topic you're interested in
- How often do you take part in the following activities in your free time, at home or any place other than school? -Watching video clips, downloading music, games, software from the Internet
- How often do you take part in the following activities in your free time, at home or any place other than school? -Searching online about job opportunities
- How often do you take part in the following activities in your free time, at home or any place other than school? -Sending and reading emails
- How often do you take part in the following activities in your free time, at home or any place other than school? -Participating in social networks (e.g. Facebook, Instagram, Twitter, Snapchat, Ask.fm, etc.)
- How often do you take part in the following activities in your free time, at home or any place other than school? -Chatting online (e.g. WhatsApp, Viber, Google Hangouts, Facebook messenger, Skype messenger, etc.)
- How often do you take part in the following activities in your free time, at home or any place other than school? -Using a word processor, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)
- How often do you take part in the following activities in your free time, at home or any place other than school? -Maintaining your own website, blog
- How often do you take part in the following activities in your free time, at home or any place other than school? -

- Coding/programming apps, programmes and/or robots
- How often do you take part in the following activities in your free time, at home or any place other than school? -Checking your privacy settings (e.g. on a social networking site)
- How often do you take part in the following activities in your free time, at home or any place other than school? -Updating the operating system and applications of your computer, tablet or smartphone
- How often do you take part in the following activities in your free time, at home or any place other than school? -Learning with educational software, games, apps and quizzes
- How often do you do the following learning activities during lessons? -Search the Internet to collect information
- How often do you do the following learning activities during lessons? -Download/upload/ browse material from your school's website
- How often do you do the following learning activities during lessons? - Send or read email messages
- How often do you do the following learning activities during lessons? - Chat online for school work
- How often do you do the following learning activities during lessons? - Use a word processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)
- How often do you do the following learning activities during lessons? -Code/programming apps, programmes and/or robots
- How often do you do the following learning activities during lessons? - Use computers to conduct experiments (collecting data and/or images, storing them, documenting observation, etc.
- How often do you do the following learning activities during lessons? - Use smartphones or tablets to conduct

- experiments (collecting data and/or images, storing them, documenting observation, etc.)
- How often do you do the following learning activities during lessons? - Use computers when working in groups
- How often do you do the following learning activities during lessons? -Participate in online training programmes
- How often do you do the following learning activities during lessons? -Learning with educational software, games, apps and guizzes
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We all listen to teacher presentation or explanation
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We all listen to a student presentation or explanation
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We all read books or look at films or videos at the same time
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We all do exercises and tasks individually or collectively
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We work on school projects
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We work in small groups
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We investigate and explore issues individually or in small groups and search for information about it
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   We try to solve problems
- In lessons, how often are you engaged in the following (whether using ICT or not)?
   Students help each other to better understand and learn

ICT_HT_Ba n2_wgt_SC _perc_extra 3_071118	ICT_HT_Ban2_TOTAL_IS CED_wgt_SC_perc_extra 3_071118.xlsx  ICT_HT_Ban2_ISCED3_ wgt_SC_perc_extra3_07 1118.xlsx  ICT_HT_Ban2_ISCED2_ wgt_SC_perc_extra3_07 1118.xlsx  ICT_HT_Ban2_ISCED1_ wgt_SC_perc_extra3_07	These files provide the head teacher survey data weighted by the total number of schools in the country, after having removed countries which were outliers.
ICT_HT_Ba n2_wgt_ST _perc_extra 3_071118	ICT_HT_Ban2_TOTAL_IS CED_wgt_ST_perc_extra 3_071118.xlsx  ICT_HT_Ban2_ISCED3_ wgt_ST_perc_extra3_07 1118.xlsx  ICT_HT_Ban2_ISCED2_ wgt_ST_perc_extra3_07 1118.xlsx  ICT_HT_Ban2_ISCED1_ wgt_ST_perc_extra3_07 1118.xlsx	These files also provide head teacher survey data after having removed the countries which are outliers. However, these are weighted on the total number of students in the country.
ICT_ST_wgt _ST_perc_e xtra4_0811 18	ICT_ST_Ban2_ISCED3b_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban2_ISCED3a_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban2_ISCED3_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban2_ISCED2_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban1_ISCED3b_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban1_ISCED3a_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban1_ISCED3a_ wgt_ST_perc_extra4_08 1118.xlsx  ICT_ST_Ban1_ISCED3_ wgt_ST_perc_extra4_08 1118.xlsx	These files provide the student survey data weighted on the total number of students in the country, after having removed countries which were outliers.

	ICT_ST_Ban1_ISCED2_ wgt_ST_perc_extra4_08 1118.xlsx	
xtra3_0811	ICT_TC_Ban2_ISCED3b_ wgt_ST_perc_extra3_08 1118.xlsx	These files provide teacher survey data weighted on the total number of students in the country, after having removed the countries which were outliers.
18	ICT_TC_Ban2_ISCED3a_ wgt_ST_perc_extra3_08 1118.xlsx	willcit were outliers.
	ICT_TC_Ban2_ISCED3_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban2_ISCED2_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban2_ISCED1_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban1_ISCED3b_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban1_ISCED3a_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban1_ISCED3_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban1_ISCED2_ wgt_ST_perc_extra3_08 1118.xlsx	
	ICT_TC_Ban1_ISCED1_ wgt_ST_perc_extra3_08 1118.xlsx	
ICT_HT_Ba n2_wgt_SC _perc_Clust er1_141118	ICT_HT_Ban2_TOTAL_IS CED_wgt_SC_perc_Clust er1_141118.xlsx	These files provide results of the cluster analysis derived from the head teacher survey by country, weighted on the total number of schools in the country.
C/1_141110	ICT_HT_Ban2_ISCED3b_ wgt_SC_perc_Cluster1_1 41118.xlsx	Schools in the country.
	ICT_HT_Ban2_ISCED3_ wgt_SC_perc_Cluster1_1 41118.xlsx	
	ICT_HT_Ban2_ISCED2_ wgt_SC_perc_Cluster1_1 41118.xlsx	

W	CT_HT_Ban2_ISCED1_ vgt_SC_perc_Cluster1_1 v1118.xlsx  CT_HT_Ban2_TOTAL_IS	
	CT_HT_Ban2_TOTAL_IS	
n2_wgt_ST CE er Cluster1_14 1118 IC wg 41  IC wg	CED_wgt_ST_perc_Clust or1_141118.xlsx CT_HT_Ban2_ISCED3b_ vgt_ST_perc_Cluster1_1 or1118.xlsx CT_HT_Ban2_ISCED3a_ vgt_ST_perc_Cluster1_1 or1118.xlsx CT_HT_Ban2_ISCED3_ vgt_ST_perc_Cluster1_1 or1118.xlsx CT_HT_Ban2_ISCED2_ vgt_ST_perc_Cluster1_1 or1118.xlsx CT_HT_Ban2_ISCED1_ vgt_ST_perc_Cluster1_1 or1118.xlsx	These files provide results of the cluster analysis derived from the head teacher survey by country, weighted on the total number of students in the country.
2_wgt_ST_ perc_Cluste er r1_141118 IS 3t 1_ IS 3a 1_ IS 31 IS 2_	CT_ST_Ban2_TOTAL_IS CED_wgt_ST_perc_Clust er1_141118.xlsx  SCED_ST_Ban2_ISCED bb_wgt_ST_perc_Cluster141118.xlsx  SCED_ST_Ban2_ISCED ba_wgt_ST_perc_Cluster141118.xlsx  SCED_ST_Ban2_ISCED B_wgt_ST_perc_Cluster1 141118.xlsx  SCED_ST_Ban2_ISCED B_wgt_ST_perc_Cluster1 141118.xlsx	These files provide results of the cluster analysis derived from the head teacher survey by country, weighted on the total number of students in the country.
2_wgt_ST_ CE perc_Cluste er r1_141118 IC wg	CT_TC_Ban2_TOTAL_IS CED_wgt_ST_perc_Clust er1_141118.xlsx  CT_TC_Ban2_ISCED3b_ vgt_ST_perc_Cluster141118.xlsx	These files provide results of the cluster analysis derived from the teacher survey by country, weighted on the total number of students in the country.

	107 70 0 0 100500	
	ICT_TC_Ban2_ISCED3a_ wgt_ST_perc_Cluster 1_141118.xlsx	
	ICT_TC_Ban2_ISCED3_ wgt_ST_perc_Cluster 1_141118.xlsx	
	ICT_TC_Ban2_ISCED2_ wgt_ST_perc_Cluster 1_141118.xlsx	
	ICT_TC_Ban2_ISCED1_ wgt_ST_perc_Cluster 1_141118.xlsx	
ICT_HT_Ba n3_TOTAL_I SCED_abs_ perc_05121 8		This excel file is the result of crossing each question from the head teacher survey with the cluster analysis, in order to demonstrate the impact of each question on the outcome of the cluster analysis. This data is not weighted.
ICT_HT_Ba n3_TOTAL_I SCED_wgt_ SC_abs_per c_051218		This excel file is the result of crossing each question from the head teacher survey with the cluster analysis. This data is weighted on the total number of schools across all countries.
ICT_HT_Ba n3_TOTAL_I SCED_wgt_ ST_abs_per c_051218		This excel file is the result of crossing each question from the head teacher survey with the cluster analysis. This data is weighted on the total number of students across all countries.
ICT_ST_Ban 3_TOTAL_IS CED_abs_p erc_061218		This excel file is the result of crossing each question from the student survey with the cluster analysis. This data is not weighted.
ICT_ST_Ban 3_TOTAL_IS CED_wgt_S T_abs_perc _061218		This excel file is the result of crossing each question from the student survey with the cluster analysis. This data is weighted on the total number of students across all countries.
ICT_TC_Ban 3_TOTAL_IS CED_abs_p erc_061218		This excel file is the result of crossing each question from the teacher survey with the cluster analysis. This data is not weighted.
ICT_TC_Ban 3_TOTAL_IS CED_wgt_S T_abs_perc _061218		This excel file is the result of crossing each question from the teacher survey with the cluster analysis. This data is weighted on the total number of students across all countries.
ICT_HT_Ba n2_wgt_per	ICT_HT_Ban2_TOTAL_IS CED_wgt_ST_perc_extra 4_071218.xlsx	These files provide data from the head teacher survey, after having removed countries which were outliers. Data is weighted either on the total number of students in the country

c_extra4_0 71218	ICT_HT_Ban2_TOTAL_IS CED_wgt_SC_perc_extra 4_071218.xlsx	(wgt_ST) or on the total number of schools in the country (wgt_SC).
	ICT_HT_Ban2_ISCED3b_ wgt_ST_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED3b_ wgt_SC_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED3a_ wgt_ST_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED3a_ wgt_SC_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED3_ wgt_ST_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED3_ wgt_SC_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED2_ wgt_ST_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED2_ wgt_SC_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED1_ wgt_ST_perc_extra4_07 1218.xlsx	
	ICT_HT_Ban2_ISCED1_ wgt_SC_perc_extra4_07 1218.xlsx	

In addition to this, a number of datafiles were provided in SPSS format. The table below provides information on these.

**Table 26- Delivered SPSS data** 

Folder name	Custom SPSS file name	Description
Head Teacher	Custom_SPSS_ ICT_Head_Teac her_12112018	This SPSS datafile contains head teacher survey data, aggregated as well as broken down by ISCED level. The data is weighted both by total number of students in the country, and by total number of schools in the country.
Parents	Custom_SPSS_ ICT_Parents_04 072018	This SPSS datafile contains parent survey data, weighted on the total number of students in the country.
Students	Custom_SPSS_ ICT_Students_1 7102018	This SPSS datafile contains student survey data, weighted on the total number of students in the country.
Teachers	Customs_SPSS _ICT_Teachers _17102018	This SPSS datafile contains teacher survey data, weighted on the total number of students in the country.

# 8. Feedback and suggestions for improvement

#### 8.1 Main reasons for refusals or no response

Following closure of fieldwork, feedback was collected from network partners to provide local contextualisation to the project, and notably to understand what the main reasons for refusals or no response were. The following responses were provided, and have been ranked below according to prevelance. After each point, the specific countries in which the point was raised by the local agencies are listed.

- Response rate would have been much higher if ministries had made the survey mandatory.
- Schools are overwhelmed with requests from the government, municipalities, for-profit and non-for-profit agencies to complete surveys, some of which are on similar topics as ICT in Schools. They tend to prioritise the ones which are mandatory or perceived as most important. Something which may help with this is incentives. (Comment made by local agencies in the Czech Republic, Slovakia, Slovenia, Ireland, Estonia, France, Netherlands, and Latvia)
- Lack of time and capacity. Many headteachers assumed that the survey would take
  up too much of their time or their teachers' time. This feeling was emphasized by
  the lack of an incentive to take part. (Comment made by local agencies in Ireland,
  UK, Hungary, Lithuania, Latvia, Estonia)
- Students from certain education levels were preparing national exams, the timings of which coincided with ICT fieldwork. As a result of this, head teachers did not want to take time away from their students' revisions. (Comment made by local agencies in Ireland, Hungary, Greece, and UK)
- The selection process could have been simpler. One solution would have been to ask school coordinators to provide information on classes in which the average age of students was that in which we were interested (for example: all classes where students are on average 13.5 years old), as opposed to the last year of each relevant ISCED level. We also made note of certain country-specific reasons for low participation:
  - o In Poland, there was confusion due to recent reforms in the education system. These reforms led to intensified school programes and an insufficient number of teachers, and were a widely publicised national issue.
  - o In Ireland, perhaps due to the sample having been drawn too early prior to fieldwork, a number of head teachers no longer worked at the school which we were aiming to survey. In the rare case where these headteachers forwarded the email to the new headteacher, this person was unlikely to complete the survey considering it had not initially been addressed to them.
- Issues with hyperlinks to the survey within the invitation emails were encountered in Latvia. In order to address this problem, the hyperlink was replaced with a full link which could be copied and pasted into a web browser.
- In Latvia, a school reform is planned for the near future, and schools in rural areas with small numbers of students are being closed or merged. This led to some refusals to participate.
- In Iceland, it was difficult to reach students from ISCED 3. This is because students in this level were no longer in class during fieldwork, which required that the school coordinator send each student a unique link and password by email. However, due

to the organisation of the Icelandic schooling system, classes in this level often have over one hundred students each, making it a huge task for school coordinators to send them individual emails. What more, because students generally no longer live at home by the time they reach ISCED 3, it was decided not to send out parent invitation letters, as these could not be completed.

• In France, some schools did not want to participate out of principle because the survey was not commissioned by the French government.

#### 8.2 Network partner feedback and suggestions for improvement

In addition to providing information on the response rate, network partners were also invited to provide feedback on the project, and share any suggestions for improvement that they have. These include:

- Due to the fact that the selection of respondents was done in real time with the information provided in the registration survey and the school coordinator survey, there was no way of including a "back" button in the surveys. This caused some frustration on the part of respondents. In order to counter this problem, the selection process could have been simplified, and more explanations provided by email to the respondents regarding the overall survey process. In particular, school head teachers and coordinators could have been provided with an idea of the types of questions they would be asked in the survey, giving them the opportunity to prepare their answers in advance.
- Providing schools with incentives
- It was unclear to school coordinators who needed to participate (the definitions of eligible teachers and classes was confusing)
- It was not made clear to school head teachers that they could register their refusal by clicking on the link (this felt counter-intuitive to them). Therefore, many complained about receiving far too many reminder emails.
- It would have been helpful to include links to the previous report so as to increase the perceived credibility of the survey and create a sense of "higher good" in participating. One suggestion was to include a short summary in the local language with a few charts.
- It would have been helpful for head teachers and school coordinator to be provided with a list of questions prior to completing the survey, so that they could discuss these with colleagues (especially considering they could not go back and amend their answers).
- There needed to be more clarity on deadlines. Network partners gave incorrect information to schools because there was a lack of clarity on when fieldwork would close. This was caused by multiple instances of postponing deadlines closure due to low response rate.
- In Poland and Norway, a postal approach was not ideal invitations should have been sent out by email from the start as per the other countries. The decision to send invitations by post was due to the fact that the sample frames did not contain email addresses. As such, a postal approach was found to be the most efficient way of contacting schools. However, a lower response rate was observed in Poland and Norway than in countries where email invitations had been sent. Consequentially, in order to boost response rate, the decision was made to look up school email addresses online and contact by email those which had not responded to the postal invitation.

- In countries where we experienced a delayed fieldwork start date, many schools were preparing for exams by the time the survey was launched and it was bad timing for such a time-consuming survey. It has been recommended to start fieldwork at the start of the academic year (September) in all countries so that schools can plan their participation earlier on in the year.
- It would have been more straightforward for school coordinators to receive the manual by email, rather than having it combined in one link with the monitoring platform. If the manual were sent by email, the link could be used solely to access the monitoring platform.
- It would be good to make contact with ministries far earlier in the process.
- It would have been helpful to inform schools of the survey a few weeks before sending them the invitation email, such that they could plan it into their schedule and familiarise themselves with the study.

### 9. Recommendations for future waves

Based on our experience of the project and the feedback collected from our network partners, we put forward the following key recommendations to improve the next waves of this research.

- Switching from an online approach to face to face in-school interviews would drastically improve response rates. It would also prevent confusion on which classes and teachers are eligible, as the interviewer could provide support, as well as on the functionality of the monitoring platform, which would no longer be necessary.
- We suggest beginning fieldwork earlier; schools should be informed of the survey from the beginning of the school year (preferably from the ministry itself), and fieldwork should begin as soon thereafter as possible, with fieldwork ideally ending before the Christmas holidays. In this wave, fieldwork ending before the summer holidays coincided with end of year examinations, a bad timing for teachers and students to answer a survey.
- Where required, the process of obtaining ministry approval should be initiated a year before the start of fieldwork.
- We suggest providing schools with an incentive for participating. This would ensure that the ICT in Schools survey would have priority over other optional surveys.

## Annex 1 Questionnaires (English version)

All questionnaires can be found below. Items highlighted in the left column indicate that the question is new to this wave. Similarly, there are two items highlighted in blue in the student questionnaire- these are questions which are not new to this wave but have been amended and are therefore not comparable with the last wave's results.

### A1.1 Head teacher questionnaire

HEAD TEACHER SURVEY							
Questi on ID	INSTRUC TION	MAIN QUESTIO N LABEL	SUB QUESTION LABEL	VAL UE COD ES	VALUE LABEL	SINGL E/ MULTI PLE	ROTAT ION
SC01Q 01A	Please fill in the box for each item.	What is the total number of students this school year (2017-2018) in your school, by education level and gender?	< <insert< td=""><td>0- 9999</td><td></td><td>SINGLE</td><td></td></insert<>	0- 9999		SINGLE	
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SC01Q 02A			Number of boys at < <insert 2="" excel="" fie="" in="" isced="" local="" provided="" variables="">&gt;</insert>	0- 9999		SINGLE	
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SC01Q 03A			Number of boys at < <isced 3="" academic="" level="">&gt;</isced>	0- 9999		SINGLE	

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		does your					
		school					
		have this					
		school					
	Please fill	year					
	in the box.	(2017-					
		2018) (full					
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	education level, otherwise for all levels together)			
SC07Q 01A		Desktop computer [INSERT LOCAL ISCED 1 levels provided in excel file]	0- 9999	SINGLE
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		provided in excel	0- 9999	SINGLE
SC07Q 01C		Desktop computer [INSERT LOCAL ISCED 3a levels	3333	SINGLE
		provided in excel filel]	0- 9999	SINGLE
SC07Q 01D		Desktop computer [INSERT LOCAL ISCED 3b levels provided in excel filel]	0- 9999	SINGLE
SC07Q 01E		[ONLY SHOW IF MORE THAN ONE LEVEL IN SCHOOL] Desktop computer	0- 9999	SINGLE
SC07Q 03A		[All levels] Laptop or notebook [INSERT LOCAL ISCED 1 levels provided in excel file]	0- 9999	SINGLE
SC07Q 03B		Laptop or notebook [INSERT LOCAL ISCED 2 levels provided in excel file]	0- 9999	SINGLE

SC07Q 03C	Laptop or notebook [INSERT LOCAL ISCED 3a levels provided in excel filel]	0- 9999	SINGLE
SC07Q 03D	Laptop or notebook [INSERT LOCAL ISCED 3b levels provided in excel filel]	0- 9999	SINGLE
SC07Q 03E	[ONLY SHOW IF MORE THAN ONE LEVEL IN SCHOOL] Laptop, or notebook [All levels]	0- 9999	SINGLE
SC07Q 13A	Tablet without Internet access [INSERT LOCAL ISCED 1 levels provided in	0-	
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SC07Q 14E  LEVEL IN SCHOOL] Tablet with Wi-Fi Internet access [All 0-levels] 9999 SINGLE  Tablet with mobile Internet access [INSERT LOCAL ISCED 1 levels provided in 0-excel file] 9999 SINGLE  SC07Q Tablet with 0-			
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Tablet with Wi-Fi Internet access [All 0-levels] 9999 SINGLE  Tablet with mobile Internet access [INSERT LOCAL ISCED 1 levels provided in 0-excel file] 9999 SINGLE  SCO7Q  Tablet with o-	SC070		
Tablet with Wi-Fi Internet access [All 0-levels] 9999 SINGLE  Tablet with mobile Internet access [INSERT LOCAL ISCED 1 levels provided in 0-excel file] 9999 SINGLE  SCO7Q  Tablet with 0-		SCHOOL]	
SC07Q 11A  SC07Q 11A  SC07Q 11A  SC07Q 11A  SC07Q 1 levels	140		
access [All 0-			
SC07Q 11A    levels] 9999   SINGLE   Tablet with mobile   Internet   access   [INSERT   LOCAL ISCED   1   levels   provided   in   0-   excel file]   9999   SINGLE   SC07Q   Tablet with   0-			0-
SC07Q 11A  SC07Q 11A  SC07Q 11A  I levels provided in 0- excel file]  SC07Q  Tablet with  Tablet with mobile Internet access [INSERT LOCAL ISCED 1 levels provided in 0- excel file] SC07Q			
SC07Q 11A    mobile   Internet   access   [INSERT   LOCAL ISCED   1   levels   provided   in   0-   excel   file]   9999   SINGLE			JJJ9   SINGLE
Internet   access   [INSERT   LOCAL ISCED   1   levels   provided   in   0-   excel file]   9999   SINGLE   SC07Q   Tablet   with   0-			
SC07Q			
[INSERT LOCAL ISCED 1 levels provided in 0-excel file] 9999 SINGLE  SC07Q Tablet with 0-			
11A  LOCAL ISCED 1 levels provided in 0- excel file] 9999 SINGLE  SC07Q  Tablet with 0-	SC070		
1 levels provided in 0-excel file] 9999 SINGLE  SC07Q Tablet with 0-		[INSERT	
1   levels	IIA		
provided in 0-   excel file]   9999   SINGLE   SC07Q   Tablet with 0-			
excel file]9999SINGLESC07QTablet with 0-			0-
SC07Q Tablet with 0-		-	
	SC070		
TID   MODILE   9999   SINGLE			
	I TID	mobile 9	SINGLE

1 1		1	
	Internet		
	access		
	[INSERT		
	LOCAL ISCED		
	2 levels		
	provided in		
	excel file]		
	Tablet with		
	mobile		
	Internet		
	access		
SC07Q	[INSERT		
11C	1 -		
	LOCAL ISCED		
	3a levels		
	provided in	0-	
	excel filel]	9999	SINGLE
	Tablet with		
	mobile		
	Internet		
SC07Q	access		
	[INSERT		
11D	LOCAL ISCED		
	3b levels		
	provided in	0-	
	excel filel]	9999	SINGLE
	[ONLY SHOW		
	IF MORE		
	THAN ONE		
	LEVEL IN		
CC070			
SC07Q	SCHOOL]		
11E	Tablet with		
	mobile		
	Internet	_	
	access [All	0-	
	levels]	9999	SINGLE
	Digital reader		
	(portable		
	device to		
	read books,		
	newspapers,		
SC07Q	etc. on		
05A	screen)		
	[INSERT		
	LOCAL ISCED		
	1 levels		
	provided in	0-	
	excel file]	9999	SINGLE
		J J J J J	STINGEL
	Digital reader		
	(portable		
	device to		
	read books,		
	newspapers,		
SC07Q	etc. on		
05B	screen)		
	[INSERT		
	LOCAL ISCED		
	2 levels		
	provided in	0-	
	excel file]	9999	SINGLE
1 1	excer mej	, ,,,,	J1.10LL

	<u>.</u>			
		Digital reader		
		(portable		
		device to		
		read books,		
		newspapers,		
SC07Q		etc. on		
05C		screen)		
		[INSERT		
		LOCAL ISCED		
		3a levels		
		provided in	0-	
		excel filel]	9999	SINGLE
		Digital reader		
		(portable		
		device to		
		read books,		
		newspapers,		
SC07Q		etc. on		
05D		screen)		
		[INSERT		
		LOCAL ISCED		
		3b levels		
		provided in	0-	
		excel filel]	9999	SINGLE
		[ONLY SHOW	J J J J J	STINGEL
		IF MORE		
		_		
		LEVEL IN		
		SCHOOL]		
SC07Q		Digital reader		
05E		(portable		
		device to		
		read books,		
		newspapers,		
		etc. on		
		screen) [All		
		levels]	9999	SINGLE
		Interactive		
		whiteboard		
SC07Q		[INSERT		
07A		LOCAL ISCED		
"		1 levels		
		provided in	0-	
		excel file]	9999	SINGLE
		Interactive		
		whiteboard		
SC07Q		[INSERT		
07B		LOCAL ISCED		
U/B		2 levels		
		provided in	0-	
		excel file]	9999	SINGLE
		Interactive		
		whiteboard		
00070		[INSERT		
SC07Q		LOCAL ISCED		
07C		3a levels		
		provided in	0-	
		excel filel]	9999	SINGLE
SC07Q		Interactive	0-	
07D		whiteboard	9999	SINGLE
1 () / ()				

į į	Ī	Ī	FINCEST				
			[INSERT				
			LOCAL ISCED 3b levels				
			provided in				
			excel filel]				
			[ONLY SHOW				
			IF MORE				
			THAN ONE				
SC07Q 07E			LEVEL IN SCHOOL]				
07L			Interactive				
			whiteboard	0-			
			[All levels]	9999		SINGLE	
			Digital				
			camera				
SC07Q			[INSERT LOCAL ISCED				
08A			1 levels				
			provided in	0-			
			excel file]	9999		SINGLE	
			Digital				
			camera				
SC07Q			[INSERT				
08B			LOCAL ISCED 2 levels				
			provided in	0-			
			excel file]	9999		SINGLE	
			Digital				
			camera				
SC07Q			[INSERT				
08C			LOCAL ISCED 3a levels				
			provided in	0-			
			excel filel]	9999		SINGLE	
			Digital				
			camera				
SC07Q			[INSERT				
08D			LOCAL ISCED 3b levels				
			provided in				
			excel filel]				
			[ONLY SHOW				
			IF MORE				
00070			THAN ONE				
SC07Q 08E			LEVEL IN SCHOOL]				
UOL			Digital				
			camera [All	0-			
			levels]	9999		SINGLE	
		Approxima					
		tely, what					
		proportion of this					
0.555	Please	equipment					
SC08Q	select one	(computer					
01	answer.	s,					
		interactive					
		white			Less		
		boards, laptops,		1	than 50%	SINGLE	
1		iaptops,			JU /U	STINOLL	

1	1	mobile					'
		mobile devices, ) is fully operationa I this school year					
		(2017-					
		2018)?		2	50 to 75%;	SINGLE	
				3	76 to 90%;	SINGLE	
				4	More than 90%	SINGLE	
				999	Don't know/Pr efer not to say	SINGLE	
SC09Q 01 SC09Q	Please fill in the box for each item.	How many desktop computers are installed for education al purposes for pupils to use either alone or with a teacher in the following places?	In computer laboratories	0- 9999 0-		SINGLE	
02 SC09Q			In classrooms In the school	9999 0-		SINGLE	
03			library In other	9999		SINGLE	
SC09Q 04			locations that are accessible to students in the school	0- 9999		SINGLE	
SC13Q 01	Please select one answer for each item.	Who maintains the ICT equipment in your school?	The school's own staff	1	Yes	SINGLE	RANDO MISE ITEMS
SC13Q 02		3333	An external company contracted by the school	2	No	SINGLE	2.2.13
SC13Q 03			An external unit arranged by	999	Don't know/ Prefer	SINGLE	

			educational authorities (at local,		not to say		
SC13Q			regional level, etc.)				
04			Other			SINGLE	
SC14Q 01	Please select one answer for each item.	This school year (2017-2018), does your school have any of the following?	Its own homepage or website, publicly accessible	1	Yes	SINGLE	RANDO MISE ITEMS
SC14Q 02			School email addresses for more than 50% of teachers	2	No	SINGLE	
SC14Q 03			School email addresses for more than 50% of students	999	Don't know/ Prefer not to say	SINGLE	
SC14Q 11			A student data management system A virtual			SINGLE	
SC14Q 06			learning environment (i.e. platform or knowledge management system, etc.)			SINGLE	
SC142 Q13			A platform used for online school-home communicati			SINGLE	
SC14Q 04			A LAN (local area network)			SINGLE	
SC14Q 05	Please select one answer.	Is this LAN also wireless (Wi-Fi)?		<u>1</u> 2	Yes No	SINGLE	
				999	Don't know/ Prefer not to say		

·	•	•					•
			Can <b>the</b>				
	Please		virtual				
CC1 41			learning				
SC141	select one		environmen				
<b>Q12</b>	answer for		<b>t</b> be accessed				RANDO
	each item.		outside				MISE
			school hours?	1	Yes	SINGLE	ITEMS
				1	res	SINGLE	TIEMS
			Can the				
			virtual				
			learning				
SC141			environmen				
<b>Q10</b>			<b>t</b> be accessed				
			from outside				
			the school				
			premises ?	2	No	SINGLE	
			promote r	_	Don't		
					know/		
					Prefer		
				000			
				999	say		
			Can <b>the</b>				
			virtual				
	Please		learning				
SC142	select one		environmen				
Q07	answer for		<b>t</b> be accessed				
	each item.		from outside				RANDO
			the school by				MISE
			the students?	1	Yes	SINGLE	ITEMS
			Can <b>the</b>	_	. 55	01:1011	
			virtual				
			learning				
			environmen				
SC142							
Q08			<b>t</b> be accessed				
			from outside				
			the school				
			premises by				
			the teachers?	2	No	SINGLE	
			Can <b>the</b>				
			virtual				
			learning				
SC142			environmen		Don't		
Q09			<b>t</b> be accessed		know/		
٩			from outside		Prefer		
			the school by		not to		
			the parents?	999	say	SINGLE	
-		In the nact	and parents:	223	July	STINGEL	
		In the past					
		two school	Introductory				
		years (	courses on				
		2015-17),	internet use				
		what	and general				
	Please	percentag	•				
SC1FO		e of your	applications				
SC15Q	select one	teachers	(basic word-				
01	answer for	have	processing,				
	each item.	undertake	spreadsheets				
		n	,				
		profession	presentations				
		al	, databases,				RANDO
		developm	etc.)				MISE
				4	None	CINCLE	
I	l	ent in the		1	None	SINGLE	ITEMS

	following areas?				
SC15Q 02		Advanced courses on applications (advanced word-processing, complex relational databases, Virtual Learning Environment,		25% of	
SC15Q 03		etc.)  Courses on Internet use (creating websites/web pages, video conferencing, etc.)	3	fewer 26-50%	SINGLE
SC15Q 04		Equipment- specific training (interactive whiteboard, laptop, etc.)	4	More than 50%	SINGLE
SC15Q 05		Courses on the pedagogical use of ICT in teaching and learning	999	Don't know/ Prefer not to say	SINGLE
SC15Q 06		Subject- specific training on learning applications (tutorials, simulations, etc.)			SINGLE
SC15Q 07		Course on multimedia (using digital video, audio equipment, etc.)			SINGLE
SC15Q 08		Participation in peer learning communities, teacher networks or group work with other teachers			SINGLE

_							_
			about the use				
			of ICT for				
			learning and				
			teaching				
			Other				
SC15Q			professional				
09			development				
			opportunities			CTN CL E	
		_	related to ICT			SINGLE	
		Does your					
	Please	school					
	select one	have an					DANDO
SC16Q	answer.	ICT coordinato					RANDO MISE
01		r?		1	Yes	SINGLE	ITEMS
01		1:		2	No	SINGLE	TILMS
					Don't	SINGLE	
					know/		
					Prefer		
					not to		
				999	say	SINGLE	
	Please			222	Suy	SINGLE	
SC17Q	select one	Is this ICT	Available full				RANDO
01	answer for	coordinato	time?				MISE
	each item.	r:		1	Yes	SINGLE	ITEMS
			Rewarded for				
			such a				
			function				
SC17Q			concretely				
02			(e.g. increase				
02			in salary,				
			reduction of				
			workload,				
			prizes, etc.)?	2	No	SINGLE	
			Responsible		Don't		
SC17Q			for providing		know/		
03			support in		Prefer		
			pedagogical	000	not to	CINCLE	
			ICT use? Its own	999	say	SINGLE	
	Please	Does your	Its own written				
SC18Q	select one	school	statement				RANDO
01	answer for	have the	about the use				MISE
	each item.	following?	of ICT	1	Yes	SINGLE	ITEMS
			Its own		. 55	J1110LL	1.2.10
			written				
			statement				
SC18Q			specifically				
02			about the use				
			of ICT for				
			pedagogical				
			purposes	2	No	SINGLE	
			A policy				
			and/or				
			actions to use				
SC18Q			Open		Don't		
<mark>09</mark>			Educational		know/		
			Resources		Prefer		
			and/or	000	not to	SINCLE	
I	I	I	MOOCs	999	say	SINGLE	l

(massive open online course open online course — online course which can be attended by anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of for teaching and/or learning (e.g. eTwinning)  SC18Q of practitioners for teaching and/or learning (e.g. eTwinning)  Regular discussions with teaching staff about ICT use for pedagogical purposes  SC18Q of programme to prepare specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting cooperation and collaboration among teachers  SC18Q of the policy to promoting cooperation and collaboration among teachers  SC18Q time for teachers to meet to SINGLE	1 1	( a a a a in a	
course online course which can be attended by anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning and/or learning (e.g. eTwinning)  SC18Q of practitioners for teaching and/or learning (e.g. eTwinning)  Regular discussions with teaching staff about ICT use for pedagogical purposes  A specific policy or programme to programme to programme to programme to programme to programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning etc.) in teaching and learning cooperation and collaboration among teachers  SC18Q of SC18Q of Cooperation and collaboration among teachers scheduled time for teachers to			
online course which can be attended by anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  Regular discussions with teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers Scheduled time for teachers Scheduled time for teachers Single			
which can be attended by anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g., eTwinning)  SC18Q of practitioners for teaching and/or learning (e.g., eTwinning)  SC18Q of practitioners for teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks  (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning elearning cooperation and collaboration among teachers  SC18Q of programme students for responsible Internet students for responsible Internet students for responsible Internet students for responsible Internet shehaviour  A specific policy about using social networks  (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  SC18Q of promoting cooperation and collaboration among teachers  SC18Q of SINGLE  SC18Q of SINGLE  SC18Q of SINGLE  SC18Q the second students of the secon			
attended by anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q of learning (e.g. eTwinning)  Regular discussions with teaching staff about ICT use for pedagogical purposes SINGLE  A specific policy or programme to prepare students for responsible Internet behaviour  SC18Q of Regular discussions with reaching staff about ICT use for pedagogical purposes SINGLE  A specific policy or responsible Internet behaviour SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting cooperation and collaboration among teachers SINGLE  SC18Q of cooperation and collaboration among teachers SINGLE  SC18Q SC18Q Scheduled time for teachers to			
anyone via the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q  SC18Q  O4  SC18Q  SC18Q  O5  SC18Q  SC18Q  O5  SC18Q  O6  SC18Q  O7  SC18Q  SC18Q  O7  SC18Q  O6  SC18Q  O7  SC18Q  O7  SC18Q  S			
the web) for teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q  SC18Q  O4  SC18Q  SC18Q  SC18Q  O5  SC18Q	, l		
teaching and/or learning  A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q			
and/or learning A policy and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q of practitioners for teaching and/or learning (e.g. eTwinning)  Regular discussions with teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q of promoting cooperation and collaboration among teachers  SC18Q the policy to promoting cooperation and collaboration among teachers Scheduled time for teachers to Single			
Learning			
SC18Q 10 SC18Q 04 SC18Q 04 SC18Q 05 SC18Q 06 SC18Q 07 SC18Q 07 SC18Q 07 SC18Q 08 SC18Q 09 SC18Q 09 SC18Q 09 SC18Q 09 SC18Q 09 SC18Q 09 SC18Q SC1			
and/or actions to participate in communities of practitioners for teaching and/or learning (e.g. eTwinning) SINGLE  SC18Q SC18Q SINGLE  SC18Q SINGLE  SC18Q SINGLE  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  SC18Q SC18Q Cooperation and collaboration among teachers  SC18Q SC18Q SC18Q SINGLE			
SC18Q 10			
SC18Q 10  SC18Q			
Communities of practitioners for teaching and/or learning (e.g. eTwinning)   SINGLE			
of practitioners for teaching and/or learning (e.g., eTwinning)  SC18Q 04  SC18Q 04  SC18Q 04  SC18Q 05  SC18Q 05  SC18Q 06  SC18Q 07  SC18Q 07  SC18Q 08  SC18Q  S			
or practitioners for teaching and/or learning (e.g. eTwinning)  SC18Q O4  SC18Q O4  SC18Q O5  SC18Q O6  SC18Q O6  SC18Q O7  SC18Q O6  SC18Q O7  SC18Q  SC18Q O7  SC18Q  SC18Q O6  SC18Q  SC1	SC180		
practitioners for teaching and/or learning (e.g., eTwinning)  SC18Q Regular discussions with teaching staff about ICT use for pedagogical purposes SINGLE  A specific policy or programme to prepare students for responsible Internet behaviour SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting cooperation and collaboration among teachers Single SC18Q  SC18Q SC1			
and/or learning (e.g. eTwinning)  SINGLE  Regular discussions with teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  SC18Q  SC18Q  O5  SC18Q  O5  SC18Q  O6  SC18Q  SC18Q  O6  SC18Q  O7  SC18Q  O7  SC18Q  SC18Q  O6  SC18Q  SC1			
learning (e.g. eTwinning)   SINGLE		_   _	
SC18Q od Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q of Twitter, Single and Single achers Single and Single achers Single and Single achers Single and Single achers Single and Single achers to Single achers to Single achers and Single achers to Single achers and Single achers and Single achers and Single achers to Single achers and Single achers achers and Single achers achers and Single achers acher			
SC18Q 04  Regular discussions with teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q O7  SC18Q O7  SC18Q O7  SC18Q O7  SC18Q O7  SINGLE  A specific policy about Using social SINGLE  SC18Q O7  SC18Q O7  SC18Q O7  SC18Q O7  SC18Q O7			CINCLE
SC18Q o4 ICT use for pedagogical purposes SINGLE  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  SC18Q o7  SC1			SINGLE
SC18Q 04  With teaching staff about ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks  SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 07  SC			
staff about ICT use for pedagogical purposes SINGLE  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  SC18Q  O7  SC18Q  SC18Q  O7  SC18Q  O7  SC18Q  SC18Q  SC18Q  SC18Q  SC18Q  SC18Q  SC18Q  Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting SINGLE  SC18Q  SC18Q  SC18Q  Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting SINGLE  SC18Q  Twitter, Instagram, Single  SC18Q  Twitter, Instagram, Single  SINGLE			
ICT use for pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  SC18Q  Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting SINGLE  SC18Q  SC18Q  SC18Q  SC18Q  Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  A specific policy to promoting SINGLE	SC18Q		
pedagogical purposes  A specific policy or programme to prepare students for responsible Internet behaviour  A specific policy about using social networks  (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q  SC18Q  SC18Q  O6  SC18Q  SC18Q  O7  SC18Q  Twitter, Instagram, Snapchat, etc.) in teaching and learning  SINGLE  SC18Q	04		
SC18Q  SC			
SC18Q 05 SC18Q 05 SC18Q 05 SC18Q 05 SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning A specific policy to promoting cooperation and collaboration among teachers SC18Q O7 SC18Q			SINGLE
SC18Q 05  SC18Q 05  SC18Q 05  SINGLE  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  SC18Q 07  SINGLE  SINGLE  SINGLE  SINGLE			SINGLL
SC18Q 05  programme to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  SC18Q 07  SC18Q 07  SINGLE  SC18Q 07  SINGLE			
SC18Q 05  to prepare students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q 06  SC18Q 1		1 1 1	
SC18Q O7  Students for responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SC18Q O6  SC18Q O7  SC18Q O7  SINGLE  A specific policy to promoting cooperation and collaboration among teachers Scheduled time for teachers to	SC180		
responsible Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SINGLE  A specific policy to promoting cooperation and collaboration among teachers Scheduled time for teachers to			
Internet behaviour  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning  SINGLE  A specific policy to promoting cooperation and collaboration among teachers Scheduled time for teachers to			
SC18Q 06 SC18Q 07 SC18Q 07 SC18Q O7 SC18Q O7 SC18Q SC18Q O7 SC18Q			
SC18Q 06  SC18Q 06  SC18Q 07  SC18Q 07  SC18Q 07  A specific policy about using social networks (Facebook, Twitter, Instagram, Snapchat, etc.) in teaching and learning A specific policy to promoting cooperation and collaboration among teachers  SC18Q SC18Q SC18Q Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE  SC18Q SC18Q SC18Q Twitter, Instagram, Snapchat, etc.) in teaching and learning SINGLE SC18Q Twitter, Instagram, Single Twitter, Instagram, S			SINGLE
SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 07  SC18Q Cooperation Collaboration Collab			
SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 06  SC18Q 07  SC18Q  SC18Q 07  SC18Q			
SC18Q 06			
Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  Scheduled time for teachers to			
Twitter, Instagram, Snapchat, etc.) in teaching and learning  A specific policy to promoting cooperation and collaboration among teachers  Scheduled time for teachers to	CC180		
Instagram, Snapchat, etc.) in teaching and learning  SINGLE  A specific policy to promoting cooperation and collaboration among teachers  Scheduled SC18Q 08  Instagram, Snapchat, etc.) in teaching and collaboration SINGLE Scheduled time for teachers to			
etc.) in teaching and learning SINGLE  A specific policy to promoting cooperation and collaboration among teachers  SC18Q  Teachers  SC18Q  Teachers  SINGLE	00	Instagram,	
etc.) in teaching and learning SINGLE  A specific policy to promoting cooperation and collaboration among teachers  SC18Q  Teachers  SC18Q  Teachers  SINGLE		Snapchat,	
SINGLE   A specific   policy to   promoting   cooperation   and   collaboration   among   teachers   SINGLE		etc.) in	
SC18Q cooperation and collaboration among teachers Scheduled time for teachers to			
SC18Q cooperation and collaboration among teachers Scheduled time for teachers to			SINGLE
SC18Q cooperation and collaboration among teachers SINGLE  SC18Q time for teachers to			
SC18Q cooperation and collaboration among teachers SINGLE  SC18Q time for teachers to			
07  and collaboration among teachers  Scheduled time for teachers to			
SC18Q time for teachers to			
among teachers SINGLE  SC18Q time for teachers to	07		
SC18Q time for teachers to SINGLE			
SC18Q time for teachers to			
SC18Q time for teachers to			SINGLE
08 teachers to			
I I I I I I I I I I I I I I I I I I I	08		0
i ineet to SINGLE		meet to	SINGLE

_							
			share,				
			evaluate or				
			develop				
			instructional				
			materials and				
			approaches				
			Specific				
			space for				
			teachers to				
			meet to				
SC18Q			share,				
<mark>12</mark>			evaluate or				
			develop				
			instructional				
			materials and				
			approaches			SINGLE	
			A policy				
			and/or				
			actions to				
SC18Q			assess the				
13			outcomes of				
			using ICT for				
			teaching and				
			learning			SINGLE	
		Does your	icarrilly			JINGLL	
		school					
		reward					
		teachers					
		for using					
	Please	ICT in	Financial				
SC19Q	select one	teaching	incentives				
01	answer for	and	(bonus,				
01	each item.	learning	increase in				
	each item.	(whether	salary)				
		or not	, ,				
		related to					
		`good					RANDO
		teaching'					MISE
		awards)?		1	Yes	SINGLE	ITEMS
			Reduced	<u> </u>		<del></del>	
SC19Q			number of				
02			teaching				
02			hours	2	No	SINGLE	
			110013		Don't	STINGEL	
SC19Q			Competitions		know/		
03			and prizes		Prefer		
			,	000	not to	CTNC	
				999	say	SINGLE	
			Honorary				
SC19Q			titles (e.g.				
07			awarding				
07			team leader				
			role)			SINGLE	
SC19Q			Additional				
04			training hours			SINGLE	
-			Additional				
			ICT				
SC19Q			equipment				
05			for the				
						CINCLE	
1	l	I	classroom			SINGLE	

SC19Q			Other				
06						SINGLE	
SC20Q 01	Please select one answer for each item.	Does your school have the following	An official policy statement about innovation within the school in teaching and learning methods and/or school organisation more		Vac	CINCLE	RANDO MISE
SC20Q 02			generally Initiatives to encourage such innovations within the school (even in absence of policy statement)	12	Yes	SINGLE	ITEMS
SC20Q 04			A specific strategy to promote formative assessment (e.g. ongoing assessment, qualitative feedback)	999	Don't know/ Prefer not to say	SINGLE	
SC20Q 03			Change management training programme (any time during the last three years)			SINGLE	
SC29Q 01	Please select one answer for each item.	Are students allowed to use the following personal devices within the school premises?	Personal laptop or notebook	1	Yes	SINGLE	RANDO MISE ITEMS
SC29Q			Personal	2			
02			tablet	2	No Don't	SINGLE	
SC29Q 03			Personal mobile phone or		know/ Prefer not to		
			smartphone	999	say	SINGLE	

SC30Q 01	Please select one answer for each item.	What is the school policy on the use of the following personal devices by students during	Personal laptop or notebook		Require d for all lessons		RANDO MISE
		<u>lessons</u> ?		1	<u>Require</u>	SINGLE	ITEMS
SC30Q 02			Personal tablet		d punctua lly accordi ng to the needs of the		
				2	lessons	SINGLE	
SC30Q 03			Personal mobile phone or smartphone	3	Always allowed during lessons	SINGLE	
				4	Allowed punctua lly according to the needs of the lessons Banned	SINGLE	
				5	from lessons	SINGLE	
				999	Don't know/Pr efer not to say	SINGLE	
SC31Q 01	Please select one answer for each item.	Are teachers and students allowed to access the Internet at school from their own device by using the school network?	Teachers	1	Yes	SINGLE	RANDO MISE ITEMS
SC31Q 02			Students	2	No	SINGLE	
				999	Don't know/ Prefer	SINGLE	

•	•	•		1			•
					not to		
					say		
SC32Q 01	Please select one answer for each item.	Is any online content filtered (e.g. sexually explicit content ) on social media and/or video-sharing platforms such as Wikipedia, Facebook, YouTube?	For teachers	1	Yes	SINGLE	RANDO MISE ITEMS
SC32Q			For students				
02			Tor students	2	No Don't know/ Prefer not to	SINGLE	
				999	say	SINGLE	
SC21Q 01	Please select one answer for each item.	To what extent do you disagree or agree with the following statement s about the use of ICT at school?	ICT should be used for students to do exercises and practice	1	Strongl y disagre e	SINGLE	RANDO MISE ITEMS
SC21Q 02			ICT should be used for students to retrieve information ICT should be	2	Disagre e	SINGLE	
SC21Q 03			used for students to work and learn in a collaborative way	3	Agree	SINGLE	
SC21Q 04			ICT should be used for students to work and learn in an autonomous way  ICT should be	4	Strongl y agree Don't	SINGLE	
<mark>11</mark>			used for	999	know/	SINGLE	

SC21Q 05  SC21Q 05  SC21Q 05  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC22Q		•						•
SC21Q 05  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q				students to		Prefer		
SC21Q 05  SC21Q 05  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 09  SC21Q				solve		not to		
SC21Q 05  SC21Q 05  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 09  SC21Q				problems		say		
SC21Q 05  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 08  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC				•		,		
SC21Q   Do you   Please   Do you   Do you   Please   Do you   Please   Do you   Please   Do you   Please   Do you   Do you   Please   Do you   Do you   Please   Do you   Please   Do you   Please   Do you   Do you   Please   Do you   Do								
positively impacts on students' motivation  ICT use in teaching and learning positively impacts on students' achievements  ICT use in teaching and learning positively impacts on students' achievements  ICT use in teaching and learning positively impacts on students' in incaching and learning positively impacts on students' impacts on students' impacts on students' corrical thinking, analysis, problem solving)  ICT use in teaching and learning impositively impacts on student's competence in transversal skills (learning to learn, social competence, etc.)  SC21Q  SC21Q  SC21Q  SC21Q  SC21Q  SC21Q  SC21Q  SC21Q  SC3  SC3  SC3  SC3  SC4  SC4  SC5  SC5  SC5  SC5  SC5  SC5								
SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC	SC21Q							
SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 09  SUdents'  achievements SINGLE	05							
SC21Q 06  SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q								
SC21Q 06  SC21Q 06  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q								
SC21Q 06    teaching and learning positively impacts on students' achievements   SINGLE     ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)   SINGLE     ICT use in teaching and learning positively impacts on students' higher order thinking, analysis, problem solving)   SINGLE     ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)   SINGLE     SC21Q   SC21Q   SC21Q   SC31Q   SC40Q   SC4							SINGLE	
SC21Q 06    learning positively impacts on students' achievements   SINGLE				ICT use in				
positively impacts on students' achievements  ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on students' higher order thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  SC21Q  S				teaching and				
positively impacts on students' achievements  ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on students' higher order thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  SC21Q  S	66216			learning				
impacts on students' achievements  ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  SC21Q  SC21Q  SC21Q  SC21Q  Please  Do you use your  School management related tasks				_				
SC21Q 07  SC21Q 08  SC21Q 09  SUMENT:  SUMGLE  SINGLE	06							
SC21Q 07  SC21Q 08  SC21Q 09  SC3  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC								
SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q 09  Please  Do you use your related tasks							SINGLE	
SC21Q 07							SINGLL	
SC21Q 07   learning positively impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)   SINGLE    SC21Q   SC								
SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 07  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q 09  Please Do you use your Please School management to learn to student to learn to store the start of the sta				_				
SC21Q 07    impacts on students' higher order thinking skills (critical thinking, analysis, problem solving)   SINGLE     ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)   SINGLE     ICT use in teaching and learning is essential to prepare students to live and work in the 21st century   SINGLE     SC21Q								
SC21Q 07    Students' higher order thinking skills (critical thinking, analysis, problem solving)   SINGLE								
higher order thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  SC21Q  SC21Q  O8  SC21Q  O9  SC21Q  O9  Please  Do you use your  SC60Ol  Please  Do you use your  SC60Ol  Do you use your  For a problem solving skills (critical thinking, analysis, problem solving)  SINGLE  SINGLE  SINGLE  SINGLE  SINGLE  SINGLE								
SC21Q 08  SC21Q 09  SC21Q 09  Please  Do you Please  SINGLE	CC210			students'				
thinking skills (critical thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  SC21Q  SC21Q  O8  SC21Q  O9  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC				higher order				
SC21Q 08  SC21Q 08  SC21Q 09  Please    Critical thinking, analysis, problem solving)   SINGLE	07							
thinking, analysis, problem solving)  ICT use in teaching and learning positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Do you use your  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  School management related tasks								
SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SINGLE								
SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC								
SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SINGLE								
SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC				· -			CINCLE	
SC21Q 08  SC21Q 08  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  Learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  SC40							SINGLE	
SC21Q 08  SC21Q 08  SC21Q 08  SC21Q 09  SC3  SC21Q 09  SC3  SC3  SC3  SC3  SC3  SC3  SC3  SC								
SC21Q 08    positively impacts on student's competence in transversal skills (learning to learn, social competences, etc.)   ICT use in teaching and learning is essential to prepare students to live and work in the 21st century   Please   Do you use your related tasks								
SC21Q 08    impacts on student's competence in transversal skills (learning to learn, social competences, etc.)   SINGLE     ICT use in teaching and learning is essential to prepare students to live and work in the 21st century     Please   Do you use your   School management related tasks								
SC21Q 08  student's competence in transversal skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Please  Do you use your  student's competence in transversal skills (learning to learning to learn, social competences, etc.)  SINGLE  SINGLE				positively				
competence in transversal skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Single  Single  Single  Single  Single  Single  Single				impacts on				
competence in transversal skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Single  Single  Single  Single  Single  Single  Single	66346			student's				
in transversal skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Please  Do you use your related tasks								
SC21Q 09  Skills (learning to learn, social competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  Please  Do you use your  SINGLE  SINGLE  SINGLE  SINGLE	08							
SC21Q 09  SC21Q 09  Please  Do you use your    Clearning to learn, social competences, etc.)   SINGLE								
SC21Q 09  SC21Q 09  Please  Do you use your Please  SINGLE								
SC21Q 09  SC21Q 09  SC21Q 09  SC21Q 09  Please  Competences, etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  School management related tasks								
SC21Q 09  SC21Q 09  SC21Q 09  Please  Do you use your Please  etc.)  ICT use in teaching and learning is essential to prepare students to live and work in the 21st century  School management related tasks								
SC21Q 09  SC21Q							CINCLE	
SC21Q 09  SC21Q							SINGLE	
SC21Q 09    learning is essential to prepare students to live and work in the 21st century   SINGLE     Do you use your   Please   Do you use your related tasks								
SC21Q 09 essential to prepare students to live and work in the 21st century SINGLE  Do you use your related tasks	1							
prepare students to live and work in the 21st century  Do you use your Please  Prepare students to live and work in the 21st century  School management related tasks				_				
O9    Do you   Please   Do you   use your   related tasks	SC210			essential to				
students to live and work in the 21st century  Do you use your Please  Students to live and work in the 21st century  School management related tasks				prepare				
live and work in the 21st century SINGLE  Do you use your related tasks	09							
in the 21st century SINGLE  Do you use your related tasks								
Do you Please Use your related tasks								
Do you management use your related tasks							SINGLE	
Please use your related tasks							JINGLL	
Please use your management lease lease lease			Do you					
I I ' I PAISTAN TSCNC I I I I		Please						
1 3C220   Select one   Computer   /, ,	SC22Q	select one	computer					
01 answer for for any of (budgeting,								
leach item   the '   planning,								
following2   timetabling,           MISE								
etc.) 1 Yes SINGLE ITEMS			'55*****!	etc.)	1	Yes	SINGLE	ITEMS

•	-	•					1
SC22Q			Searching for	0		CTN CL E	
02			information	2	No Don't	SINGLE	
					know/		
SC22Q			Making		Prefer		
03			presentations		not to		
				999	say	SINGLE	
			Communicati				
			ng online with				
66330			teachers				
SC22Q 04			(email, web				
04			site				
			announceme				
			nts, etc.)			SINGLE	
			Communicati				
			ng online with				
SC22Q			parents (email, web				
05			(email, web site				
			announceme				
			nts, etc.)			SINGLE	
			Communicati				
			ng online with				
SC22Q			educational				
06			authorities				
			(at local,				
			regional, or			0	
			central level)			SINGLE	
		Regarding					
		your school,					
		who is					
	Please	mainly					
SC23Q	select one	,					
01A	answer for		Teachers				
	each item.	following?					
		Procuring					
		ICT					RANDO
		infrastruct					MISE
		ure		1	Yes	SINGLE	ITEMS
SC23Q			School head	0	N.1	CINCLE	
01B				2	No Don't	SINGLE	
			School		know/		
SC23Q			governing		prefer		
01C			body		not to		
			5047	999	say	SINGLE	
CC220			Regional/loca				
SC23Q 01D			I education				
סזט			authority			SINGLE	
SC23Q			National				
01E			education			CINCLE	
		Pogardina	authority			SINGLE	
		Regarding your					
	Please	school,					
SC23Q	select one	who is	Teachers				
02A	answer for	mainly					RANDO
	each item.	responsibl					MISE
		e for the		1	Yes	SINGLE	ITEMS

		following? Determini ng course content (i.e. curriculum					
SC23Q 02B		,	School head	2	No	SINGLE	
SC23Q 02C			School governing body	999	Don't know/ prefer not to say	SINGLE	
SC23Q 02D			Regional/loca l education authority		,	SINGLE	
SC23Q 02E			National education authority			SINGLE	
SC23Q 03A	Please select one answer for each item.	Regarding your school, who is mainly responsible for the following? Choosing teaching methods	Teachers	1	Yes	SINGLE	RANDO MISE ITEMS
SC23Q 03B		metrious	School head	2	No	SINGLE	112113
SC23Q 03C			School governing body	999	Don't know/ prefer not to say	SINGLE	
SC23Q 03D			Regional/loca I education authority			SINGLE	
SC23Q 03E			National education authority			SINGLE	
SC23Q 04A	Please select one answer for each item.	Regarding your school, who is mainly responsible for the following? Deciding about teacher training	Teachers	1	Yes	SINGLE	RANDO MISE ITEMS
SC23Q 04B		<u>9</u>	School head	2	No	SINGLE	

SC23Q 04C			School governing body	999	Don't know/ prefer not to say	SINGLE	
SC23Q 04D			Regional/loca I education authority			SINGLE	
SC23Q 04E			National education authority			SINGLE	
SC23Q 05A	Please select one answer for each item.	Regarding your school, who is mainly responsible for the following? Choosing learning resources	Teachers	1	Yes	SINGLE	RANDO MISE ITEMS
SC23Q 05B			School head	2	No	SINGLE	
SC23Q 05C			School governing body	999	Don't know/ prefer not to say	SINGLE	
SC23Q 05D			Regional/loca I education authority		,	SINGLE	
SC23Q 05E			National education authority			SINGLE	

## A1.2 Teacher questionnaire

TEACHER QUESTIONNAIRE									
Quest ion ID	INSTRUC TION	MAIN QUESTI ON LABEL	SUB QUESTION LABEL	VAL UE COD ES	VALUE LABEL	SINGL E/ MULTI PLE	ROTAT ION		
TE02 Q01	Please select all answers that apply.	What subjects do you teach to the target class?		1	All subjects or almost (early stages of compuls ory educatio n)	MULTI CODE FOR VALUE S 2-4. SINGL E CODE FOR VALUE S 1, 995,			

						AND	
						999	
					Mathem		]
				2	atics		
					Science		
				3	S		
					Langua		
					ge		
					(mother		
					tongue,		
					not		
					foreign		
					languag		
				4	es)		1
				995	Other		
					Don't		
					know/Pr		
				999	efer not		
		How is		999	to say		
	Please	ICT	ICT is taught as				
	select one	taught to	a separate				RANDO
TE04	answer for	the target	subject			SINGL	MISE
Q01	each item.	class?		1	Yes	E	ITEMS
			ICT is integrated				
TE04			in my subject				
Q02			because I				
			choose to do so	2	No		
			ICT is into suched				
			ICT is integrated in my subject		Don't		
TE04			in my subject because of		know/Pr		
Q03			curriculum		efer not		
			requirements		to say		
			requirements	999			
		Have you					
		used ICT					
		for the					
TE05	D.	following					
Q01	Please	activities					DANDO
	select one answer for	in the last	Droparing			SINGL	RANDO MISE
	each item.	months?	Preparing lessons	1	Yes	E	ITEMS
	each item.	111011015!	Creating/modifyi	т	163	<u> </u>	11 5113
			ng digital				
<b>TE 0 =</b>			content (e.g.				
TE05			video file, audio				
Q03			file, text file,				
			PowerPoint				
			presentation)	2	No		
					Don't		
TE05			Class teaching in		know/Pr		
Q02			front of/with the	00-	efer not		
			students	999	to say		-
TE05			Provide personal				
<b>Q04</b>	l	l	feedback and				]

			support to students				
TE05 Q05			Communicate with parents				
TE06 Q01	Please select one answer.	For how many years have you been using computer s and/or the Internet at any school?		1 2 3 4	Betwee n 1 to 3 years Betwee n 4 to 6 years More than 6 years Don't know/Pr efer not	SINGL E	
TE07 Q01	Please select one answer.	For what percentag e of time have you used computer s and/or the Internet in class in the past 12 months?		1 2 3	51 to 75% of all lessons 25 to 50% of all lessons 11 to 24% of all	SINGL	

	1					T	, .
					1 to 5%		
					of all		
				6	lessons		
					Less		
					than 1%		
					of all		
				7	lessons		
					Don't		
					know/Pr		
					efer not		
				999			
				999	to say		
		For what percentag					
		e of your					
		lessons					
	Please	have					
	select one	students					
	answer.	used ICT			More		
	answer.	in class in			than		
					75% of		
TE20		the past				SINGL	
TE30				4	all		
<mark>Q01</mark>		months		1	lessons	E	
					51 to		
					75% of		
					all		
				2	lessons		
					25 to		
					50% of		
					all		
				3	lessons		
					11 to		
					24% of		
					all		
				4	lessons		
					6 to		
					10% of		
				-	all		
				5	lessons		
					1 to 5%		
				_	of all		
				6	lessons		
					Less		
					than 1%		
					of all		
				7	lessons		
					Don't		
					know/Pr		
					efer not		
				999	to say		
		Under			/		
		which					
		condition					
		s do you					
		have					
		access to					
	Please	the	Dockton				
			Desktop				DANDO
TEOO	select one	following	computer		No	CINICI	RANDO
TE09	answer for	in lessons	without Internet	4	No	SINGL	MISE
Q01	each item.	with the	access	1	access	E	ITEMS

İ		target					]
		class?					
TE09 Q02			Desktop computer with Internet access	2	Access on demand		
TE09			Non-internet- connected laptop or, tablet PC, netbook or mini notebook		Perman ent		
Q03			Internet- connected laptop, tablet	3	access		
TE09 Q04			PC, netbook or mini or notebook computer	995	Other Don't		
TE09 Q05			Mobile phone provided by the school	999	know/Pr efer not to say		
TE09 Q06			E-reader (a device to read books and newspapers on screen)				
TE09 Q07 TE09			Interactive whiteboard Digital camera				
Q08 TE09 Q09			or camcorder Computer laboratory				
	Please select one	Has the school provided you with the following for your own use this				CINC	RANDO
TE10 Q01	answer for each item.	school year?	A laptop or a notebook	1	Yes	SINGL E	MISE ITEMS
TE10 Q02			A tablet	2	No		
				999	Don't know/Pr efer not to say		
TE11 Q01	Please select one answer for each item.	Has the school provided students with the following for their own use	A laptop or a notebook	1	Yes	SINGL E	RANDO MISE ITEMS

		this school year (1 to 1 type of initiatives )?					
TE11 Q02			A tablet	2	No		
				999	Don't know/Pr efer not to say		
TE13 Q01	Please select one answer.	Is participati on in ICT training on digital technolog ies compulso ry for a teacher in your subject?		1	Yes	SINGL E	
QUI		Subjecti		2	No		
				999	Don't know/Pr efer not to say		
TE14 Q01	Please select one answer for each item.	In the past two school years, have you undertak en professio nal developm ent in the following areas?	Introductory courses on internet use and general applications (basic word- processing, spreadsheet, presentations, databases, etc.)	1	Yes	SINGL E	RANDO MISE ITEMS
TE14 Q02		. d. 505.	Advanced courses on applications (advanced word- processing, complex relational databases, Virtual Learning Environment, etc.)	2	No	L	7.2.13
TE14 Q03			Advanced courses on Internet use (creating websites/webpa	999	Don't know/Pr efer not to say		

			ges, video conferencing, etc.)				
TE14 Q04			Equipment- specific training (interactive whiteboard, laptop, etc.)				
TE14			Courses on the pedagogical use of ICT in teaching and				
Q05			learning Subject-specific training on				
TE14			learning applications (tutorials, simulations,				
Q06			etc.) Course on multimedia (using digital				
TE14 Q07			video, audio equipment, etc.) Participate in online				
			communities (e.g. mailing lists, twitter, blogs) for				
TE14 Q08			professional discussions with other teachers				
TE14 Q09			ICT training provided by school staff Participate in				
TE4.4			teacher networks for collaboration				
TE14 Q12			and projects (e.g. eTwinning) Personal learning about				
TE14 Q10			ICT in your own time Other				
TE14 Q11			professional development opportunities related to ICT				
	Please select one answer.	In total, how much time have you been					TOP- BOTTO M/
TE15 Q01	3	involved during the past		1	No time at all	SINGL E	BOTTO M-TOP rotation

		two school years in the above professio nal developm ent opportuni ties?					for code 1 to 5
					Less than 1		
				2	day 1-3		
				3	days 4-6		
				4	days		
				5	More than 6 days		
					Don't		
					know/Pr efer not		
		When		999	to say		
TE16 Q01	Please select one answer for each item.	using ICT in lessons, do you benefit from technical or pedagolo gical	A more experienced / knowledgeable teacher	1	Rarely/ never used	SINGL E	RANDO MISE ITEMS
TE16 Q06			Team teaching / in-school collaboration with other teachers	2	Mostly technica I support		
TE16 Q02			School ICT/technology coordinator	3	Mostly pedago gical support		
TE16 Q03			Other school staff	4	Both technica I and pedago gical support		
TE16 Q04			Experts from outside the school	999	Don't know/Pr efer not to say		
TE16 Q05			An online helpdesk,				

			community or website				
TE18 Q01	Please select one answer for each item.	How often do you do the following activities in relation to teaching to the target class?	Browse / search the Internet to collect information to prepare lessons	1	(Almost ) never	SINGL E	RANDO MISE ITEMS
TE18 Q02			Browse or search the Internet to collect learning material or resources to be used by students during lessons	2	Several times a month		
TE18 Q08			Evaluate digital learning resources in the subject you teach	3	At least once a week		
TE18 Q10			Download/uploa d/browse material from the school's website or a virtual learning environment / learning platform	4	(Almost ) every day		
TE18 Q12			Communicate with students by email	997	Not applicab le		
TE18 Q13			Communicate with students using mobile applications on a smartphone or a tablet (e.g. WhatsApp, Telegram)	999	Don't know/Pr efer not to say		
TE18 Q14			Use online tools/ platforms on a computer (e.g. Showbie) to communicate with students Post home work				
TE18 Q06			for students on the school website, a				

1	I		learning				1 I
			platform or a cloud storage				
			service (e.g.				
			Dropbox, Google Drive)				
			Use				
TE18			applicationsto prepare				
Q03			presentations for lessons				
			Create your own				
			digital learning materials for				
TE4.0			students (e.g.				
TE18 Q04			prepare digital labs exercises,				
			record your own lectures for				
			students to refer				
			to later)				
			Prepare				
			standard exercises and				
			tasks for				
TE18			students (e.g. use Word to				
Q05			prepare exercises and				
			print the				
			document to then distribute				
			to students)				
		Which of					
		the following					
		types of					
		digital materials	Material that				
TE19 Q01		have you used	you've researched				
QUI		when	online				
	Please	teaching thetarget					
	select one answer for	class with the aid of				SINGL	RANDO MISE
	each item.	ICT ?		1	Yes	E	ITEMS
			Existing online				
TE19			material from established				
Q02			educational sources				
1			Jources	2	No		]

	-	_					-
TE19 Q05			Educational applications on a smartphone or a tablet	999	Don't know/Pr efer not to say		
TE19 Q03			Material that is available on the school's computer network or database				
TE19 Q04			Electronic offline material (e.g. DVD)				
TE34	Please select one answer.	How often do you use ICT to provide feedback and/or assess students'			(Almost	SINGL	
Q01		learning?		2	Several times a month At least once a	E	
				3 4	week (Almost ) every day		
				999	Don't know/Pr efer not to say		
TE31	Please select one answer.	When you do use ICT to provide feedback and/or assess student's learning, do you do it via the school website or a learning				SINGL	
Q01		platform?		1 2	Yes No Don't	E	
				999	know/Pr efer not to say		

TE32 Q03 TE32 Q01	Please select one answer for each item.	How often do you use the following means of communication to contact students' parents?	Emails  Mobile applications on a smartphone or tablet (e.g. WhatsApp, Telegram)  Online tools/ platforms on a computer (e.g. Showbie) to contact parents	1 2 3	(Almost ) never  Several times a month  At least once a week (Almost ) every day Don't	SINGL E	
				999	know/Pr efer not to say		
TE21 Q01	Please select one answer for each item.	To what extent do the following apply to you, when it comes to teaching methods and practices (with or without ICT)?	I present, demonstrate and explain to the whole class	1	A lot	SINGL E	RANDO MISE ITEMS
TE21 Q02		ŕ	I support and explain things to individual students	2	Somew hat		
TE21 Q04			Students work in groups	3	A little		
TE21 Q05			Students work on exercises or tasks individually	4	Not at		
TE21 Q12			Students work on projects	999	Don't know/Pr efer not to say		
TE21 Q06			Students give presentations to the whole class				

		_					_
TE21			Students				
Q14			process and				
Q14			analyse data				
			Students				
TE21			participate in				
Q11			assessing their				
			work				
			Students take				1
TE21			tests and				
Q07			assessments				
			Students are				1
TE21			engaged in				
Q08			inquiry-based				
Quu			activities				
			Students discuss				1
TE21			ideas with other				
Q09			students and the				
QU9							
-		To	teacher				-
		Is your					
		use of ICT					
		in					
TE20		teaching					
TE20		and			A lot		
Q01	5.	learning					
	Please	adversely	- cc				
	select one	affected	Insufficient				RANDO
	answer for	by the	number of			SINGL	MISE
	each item.	following?	computers	1		Е	ITEMS
			Insufficient				
TE20			number of				
Q02			internet-				
Q 0 2			connected				
			computers	2	Partially		
			Insufficient				
TE20			number of				
Q22			tablets provided				
			by the school	3	A little		
			Insufficient				
TE20			Internet				
Q03			bandwidth or		Not at		
			speed	4	all		
			Insufficient	-	Don't		1
TE20			number of		know/Pr		
Q04			interactive		efer not		
			whiteboards	999	to say		
			Insufficient	-	,		]
TE20			number of				
Q05			laptops/noteboo				
			ks				
			School				1
TE20			computers out				
Q06			of date and/or				
			needing repair				
			Lack of				1
TE20			adequate skills				
Q07			of teachers				
			Insufficient				1
TE20			technical				
Q08			support for				
ا کون			teachers				
1	[		teathers				

			<b>-</b>		T	•	7
			Insufficient				
TE20			pedagogical				
Q09			support for				
			teachers				
			Lack of				1
TE20			adequate				
Q10			content/material				
			for teaching				_
TE20			Lack of content				
			in national				
Q11			language				
			Too difficult to				1
TE20			integrate ICT				
Q12			use into the				
QIZ							
			curriculum				-
			Lack of				
TE20			pedagogical				1
Q13			models on how				1
\ \dag{412}			to use ICT for				1
			learning				1
			School time				1
TE20			organisation				1
Q14			(fixed lesson				1
Q14							
			time, etc.)				
			School space				
TE20			organisation				
Q15			(classroom size				
QIS			and furniture,				
			etc.)				
			Pressure to				
TE20			prepare				
			students for				
Q16							
			exams and tests				1
			Most parents not				
TE20			in favour of the				
Q17			use of ICT at				
			school				
			Mask kanabawa				
TE20			Most teachers				
Q18			not in favour of				
			the use of ICT at				
			school				]
			Using ICT in				1
			teaching and				
TE20			learning not				1
Q21			being a goal in				
			our school				4
TE20			Lack of interest				
Q19			of teachers				
			No or unclear				1
TE20			benefit to use				
Q20							
			ICT for teaching				
		To what	Save and store a				1
		extent	file on a hard				1
TE22	Please	are you	drive/cloud				
Q08	select one	confident	platform				RANDO
1	answer for					SINGL	MISE
	each item.			1	A lot	E	ITEMS
I	I cach icciti	,y:	L		, , , , , , ,	<u> </u>	J

		Download or			
		upload			
		curriculum			
		resources			
TE22		from/to			
Q17					
		learning		C	CINCI
		platforms for	_	Somew	SINGL
		students to use	2	hat	E
		Email a file to			
TE22		someone,			
Q07		another student	_		SINGL
		or teacher	3	A little	Е
TE22		Participate in a			
Q31		discussion forum		Not at	SINGL
QJ1		on the Internet	4	all	E
		Participate in		Don't	
TE22		social networks		know/Pr	
Q15				efer not	SINGL
			999	to say	Е
		Produce a text		/	
TE22		using a word			
Q01		processing			SINGL
QUI		programme			E
		Capture and edit			
TE22		digital photos,			
		movies or other			SINGL
Q03					E
		graphics			E
		Edit text online			
TE22		containing			
Q04		internet links			SINGL
		and images			Е
TE22		Create a			SINGL
Q05		database			E
TE22		Edit a			
		questionnaire			SINGL
Q06		online			E
<b>TF00</b>		Use a			
TE22		spreadsheet			SINGL
Q09		programme			E
		Use a			
TE22		spreadsheet to			SINGL
Q10		plot a graph			E
		Create a			_
		presentation			
TE22		with simple			
Q11		animation			SINGL
					E
		functions			L
TESS		Create a			
TE22		presentation			CINCI
Q12		with video or			SINGL
		audio clips			E
TE22		Create and			
Q14		maintain blogs			SINGL
~- '		or websites			Е
		Prepare			
TE22		materials to use			
		with an			
Q20		interactive			SINGL
		whiteboard/with			E
•	•	•			

	_	_					_
			the school				
	ļ		equipment (e.g.				
	ļ		interactive				
	ļ		whiteboard,				
	ļ		beamers etc.)				
	ļ		-				1
<b>TF00</b>	ļ		Code/programm				
TE22	ļ		e apps,				
Q23	ļ		programmes			SINGL	
	ļ		and/or robots			Е	
	ļ		Use the Internet				
	ļ		safely to protect				
TE22	ļ		your privacy and				
<b>Q34</b>	ļ		online			SINGL	
	ļ					E	
	ļ		reputation			Е	-
	ļ		Recognise fake				
TE22	ļ		news				
Q35	ļ		(intentional				
<del>Q33</del>	ļ		spread of false			SINGL	
			information)			Е	
			Download and				]
TE22			install software			SINGL	
Q16			on a computer			E	
	ļ					L	-
	ļ		Use ICT to				
	ļ		conduct				
	ļ		experiments				
	ļ		(collecting data				
TE22	ļ		and/or images,				
<mark>Q30</mark>	ļ		storing them,				
	ļ		documenting				
	ļ		observation,			SINGL	
	ļ					E	
			etc.)			L	
		How	Teach students				
	Please	confident	how to behave				
	select one	are you	safely online				RANDO
TE33	answer for	doing the	(e.g. prevent			SINGL	MISE
<b>Q01</b>	each item.	following?	cyberbullying)	1	A lot	E	ITEMS
	l i		Teach students				
			Teach students				
TF33			how to behave		Somew	SINGI	
TE33			how to behave safely to protect		Somew	SINGL	
TE33 Q02			how to behave safely to protect their privacy	2	Somew hat	SINGL E	
			how to behave safely to protect their privacy Teach students				
			how to behave safely to protect their privacy Teach students how to manage				
Q02		. e.e.eg.	how to behave safely to protect their privacy  Teach students how to manage their digital			E	
Q02 TE22		. e.	how to behave safely to protect their privacy  Teach students how to manage their digital identity and	2	hat	E SINGL	
Q02		. e.	how to behave safely to protect their privacy  Teach students how to manage their digital			E	
Q02 TE22		. e.	how to behave safely to protect their privacy  Teach students how to manage their digital identity and	2	hat	E SINGL	
Q02 TE22			how to behave safely to protect their privacy Teach students how to manage their digital identity and reputation	2	hat	E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online	2	A little	SINGL E	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT and the Internet (e.g. learning,	3	A little  Not at	SINGL E SINGL	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT and the Internet (e.g. learning, communication,	3	A little  Not at all  Don't	SINGL E SINGL	
Q02 TE22 Q18 TE22 Q19			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT and the Internet (e.g. learning, communication, entertainment,	3	A little  Not at all  Don't know/Pr	SINGL E SINGL E	
Q02 TE22 Q18 TE22			how to behave safely to protect their privacy  Teach students how to manage their digital identity and reputation  Teach students how to behave ethically online  Assist students in benefiting from the opportunities offered by ICT and the Internet (e.g. learning, communication,	3	A little  Not at all  Don't	SINGL E SINGL	

I	l		civic				]
			participation)				
		_					
		Do you consider					
		ICT use					
		during					
		lessons has a					
	Please	positive	Students				
TEGG	select one	impact on	concentrate			CINCI	RANDO
TE23 Q01	answer for each item.	the following?	more on their learning	1	A lot	SINGL E	MISE ITEMS
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		i onoving.	Students try	-	71100		112.10
TEGG			harder in what		C = =	CINCI	
TE23 Q02			they are learning	2	Somew hat	SINGL E	
~~			Students feel				1
			more				
			autonomous in their learning				
			(they can repeat				
			exercises if				
			needed, explore in more detail				
			topics that they				
TE23 Q03			are interested in, etc.)	3	A little	SINGL E	
QUS			Students		Ailtie	L	
			understand				
TE23 Q04			more easily what they learn	4	Not at all	SINGL E	
Q04			Students	- +	Don't	L	_
			remember more		know/Pr		
TE23 Q05			easily what they've learnt	999	efer not to say	SINGL E	
			ICT facilitates	,,,,	co say		-
			collaborative			GTN GI	
TE23 Q06			work between students			SINGL E	
			ICT improves			<b>-</b>	1
			the class climate				
TE23			(students are more engaged,			SINGL	
Q07			less disturbing)			E	
		To what extent do					
		you					
		disagree					
		or agree with each					
		of the	ICT should be				
	Please	following	used for		Church !		DANGO
TE24	select one answer for	statemen ts about	students to do exercises and		Strongly disagre	SINGL	RANDO MISE
Q01	each item.			1	е	E	ITEMS

1	l l.o			1	
	ICT at				
	school?				
		ICT should be			
		used for			
TE2.4		students to		<b>D</b> .	CTNICI
TE24		retrieve	2	Disagre	SINGL
Q02		information ICT should be	2	е	Е
		ICT should be used for			
		students to work			
		in a			
TE24		collaborative			SINGL
Q03		way	3	Agree	E
		ICT should be			
		used for			
		students to learn			
		in an			
TE24		autonomous		Strongly	SINGL
Q04		way	4	agree	Е
		ICT should be		Don't	
		used for		know/	
		students to learn		Prefer	
TE24		to use them to		not to	SINGL
<b>Q11</b>		solve problems	999	say	E
		ICT use in			
		teaching and			
		learning			
		positively impacts on			
TE24		students'			SINGL
Q05		motivation			E
٦		ICT use in			_
		teaching and			
		learning			
		positively			
		impacts on			
TE24		students'			SINGL
Q06		achievement			Е
		ICT use in			
		teaching and learning			
		positively			
		impacts on			
		students' higher			
		order thinking			
		skills (critical			
		thinking, `			
TE24		analysis,			SINGL
Q07		problem solving)			Е
		ICT use in			
		teaching and			
		learning			
		positively			
TE24		impacts on students'			SINGL
Q08		competence in			E
1 200	ı I			i .	

1	l		transversal skills				ı
			(learning to				
			learn, social				
			competences,				
			etc.)				
			ICT use in				
			teaching and learning is				
			essential to				
			prepare				
			students to live				
TE24			and work in the			SINGL	
Q09	Dianas		21st century			Е	
TE25	Please select one	Are you				SINGL	
Q01	answer.	, c , c u		1	Female	E	
				2	Male		
					Prefer		
					not to		
-		To all calling or		999	say		
		Including this					
		school					
	Please	year, how					
	select one	long have					
	answer.	you been					
TEGG		teaching			Less		
TE26 Q01		(at any school)?		1	than 1 year		
QUI		School):			1-3		
				2	years		
					4-10		
				3	years		
				4	11-20		
				4	years 21-30		
				5	years		
					31-40		
				6	years		
					More		
				_	than 40		
				7	years Don't		
					Don't know/		
					Prefer		
					not to		
				999	say		
	Please	\\/\b-+			20	CINICI	
TE27 Q01	select one answer.	What is		1	30 or less	SINGL E	
ا کون	aliswel.	your age?		2	31-35	<u> </u>	
				3	36-45		
				4	46-55		
					More		
				5	than 55		
					Prefer		
				000	not to		
				999	say		

TE29 Q01	Please select one answer.	Do you use ICT to update your subject knowledg e or undertak e personal or professio nal developm ent in any subject (i.e. whether or not related to the subject you teach)?	1 2	Yes No Don't know/ Prefer not to say	SINGL E	
TE28 Q01	Please select one answer.	How often do you use ICT for activities other than work (e.g. shopping, organisin g photos, socialisin g, entertain ment, booking a hotel, contactin g family and friends)?	1 2 3 4 5	Never A few times a year Almost monthly Weekly Daily	SINGL E	

			Don't	
			know/Pr	
			efer not	
		999	to say	

# A1.3 Student questionnaire

STUDENT SURVEY									
Quest ion ID	INSTRU CTION	MAIN QUESTION LABEL	SUB QUESTION LABEL	VAL UE CO DES	VALUE LABEL	SINGL E/ MULT IPLE	ROTAT ION		
ST25 Q01	Please select one answer.	In which grade are you?		1	< <isce D 1 level&gt;&gt;</isce 				
				2	< <isce D 2 level&gt;&gt;</isce 				
				3	< <isce D 3 level academi c&gt;&gt;</isce 				
				4	< <isce D 3 level vocation al&gt;&gt;</isce 				
ST22 Q01	Please select one answer.	At home, do you normally speak the same language as the one used in the present questionnair e?		1	Yes	SINGL E			
				999	No Don't know/Pr efer not to say				
ST01	Please select one answer for each	Have you used the following devices outside school (i.e. at home, at friends' or family member's home, in a public	A computer or laptop/notebo			SINGL	RANDO MISE		

i		I +					ı ı
		Internet					
		café, etc.) in the last 3					
		months?					
ST01		months:					
Q03			A tablet	2	No		
QUS			77 tubict		Don't		
					know/Pr		
ST01					efer not		
Q04			A smartphone	999	to say		
		Have you			,		
		been on the					
		Internet					
		outside					
		school (i.e.					
		at home, at					
		friends' or					
		family member's					
		home, in a					
		public					
		library, an					
		Internet					
	Please	café, etc.) in					
ST02	select one	the last 3				SINGL	
Q01	answer.	months?		1	Yes	E	
				2	No		
					Don't		
					know/Pr		
				999	efer not to say		
		Which of the		333	to say		
		following are					
		available for					
		you to use at					
		home, or					
		outside					
		school (e.g.					
		at friends' or	C				
		family member's	Computer				
	Please	home, in a	(e.g. desktop, laptop, or				
	select one	public library	notebook)				
	answer	or an	without		Never or		RANDO
ST03	for each	Internet	Internet		almost	SINGL	MISE
Q01	item.	café)?	access	1	never	Е	ITEMS
			Computer				
			(e.g. desktop,				
			laptop, or		Coverel		
ST03			notebook) with Internet		Several times a	SINGL	
Q02			access	2	month	E	
~~~			Digital reader		711011011	_	
			(portable				
			device for		At least		
ST03			reading books		once a	SINGL	
Q05			on screen)	3	week	Е	
			Video gaming		Every	CTL C:	
ST03			system (e.g.	4	day or	SINGL	
Q06			Xbox,	4	almost	E	

_	-						_
			PlayStation,		every		
			Wii)		day		-
			Handheld .		Don't		
CTOO			games console		know/Pr	CINCI	
ST03			(e.g. PSP,	000	efer not		
Q07			Nintendo DS)	999	to say	E	-
			Mobile phone				
			or smartphone without				
CTOS						SINGL	
ST03			Internet			E	
Q08			access				-
ST03			Smartphone with Internet			SINGL	
						E	
Q09			access Tablet without				-
ST03						SINGL	
			Internet			E	
Q14			access Tablet with			L	-
ST03			Internet			SINGL	
Q13			access			E	
Q <sub>T</sub> 2			Camcorder or			<u> </u>	-
			digital camera				
ST03			(to record			SINGL	
Q11			video)			E	
411			Wearable			<u> </u>	-
ST03			devices (e.g.			SINGL	
Q16			smartwatch)			E	
QIO		Which	3martwateri)			<u> </u>	
	Please	language(s)			< <lang< th=""><th></th><th></th></lang<>		
	select all	do you			uage		
	answers	usually use			used at		
ST27	that	when going			school>	MULTI	
Q01	apply.	online?		1	>	PLE	
QU1	арргу.	Omme:			Your	1	1
					mother		
				2	tongue		
					English		1
					[if not		
					mother		
					tongue		
					or		
					languag		
					e used at		
				3	school]		
				995	Other		1
	Please	What is your		,,,,	0 3.101		
ST31	select one	mother					
Q01A	answer.	tongue?					YES
		, , , , , , , , , , , , , , , , , , , ,			< <lang< th=""><th></th><th>   </th></lang<>		
					uages		
					option		
					set>>		
							1
				995	Other		
		You		,,,,	Julio		
	Please	mentioned					
ST32	select all	that you use					
Q01A	answers	another				MULTI	YES
QUIT.	I allowella	I amound				LIOLII	」

	that apply.	language when going online. Could you please specify (or select) the language?"		995	< <lang uages option set&gt;&gt;</lang 		
					Juliu		
ST05 Q03	Please select one answer for each item.	How often do you take part in the following activities in your free time, at home or any place other than school?	Reading and watching the news online	1	Never or almost never	SINGL E	RANDO MISE ITEMS
ST05 Q05			Searching online for practical information (e.g. seats at a match/concert , shopping, train times,	2	Several times a month	SINGL E	
ST05			health) Searching different sources online for information and learning about a particular topic you're	2	A least once a	SINGL	
Q06			interested in  Watching video clips, downloading music, games,	3	Every day or almost	E	
ST05 Q12			software from the Internet	4	every day	SINGL E	
ST05 Q30			Searching online about job opportunities	999	Don't know/Pr efer not to say	SINGL E	
ST05 Q01			Sending and reading emails		,	SINGL E	

_							_
			Participating				
			in social				
			networks (e.g.				
			Facebook,				
			Instagram,				
			Twitter,				
ST05						SINGL	
			Snapchat,				
<b>Q16</b>			Ask.fm, etc.)			Е	
			Chatting				
			online (e.g.				
			WhatsApp,				
			Viber, Google				
			Hangouts,				
			Facebook				
			messenger,				
			Skype				
ST05						SINGL	
	1		messenger,				
Q02			etc.)			Е	-
	1		Using a word				
	1		processor,				
	1		spreadsheet				
	1		or				
	1		presentation				
			programme				
			(e.g. Word,				
ST05			Excel,			SINGL	
Q18			PowerPoint)			E	
QIO						L	-
CTOF			Maintaining			CINCI	
ST05			your own			SINGL	
Q13			website, , blog			E	
			Coding/progra				
			mming apps,				
ST05			programmes			SINGL	
<b>Q22</b>			and/or robots			ΙE	
			Checking your				1
			privacy				
			settings (e.g.				
CTOF			on a social			CINCI	
ST05			networking			SINGL	
<b>Q24</b>	1		site)			Е	
	1		Updating the				
			operating				
			system and				
	1		applications of				
	1		your				
	1		computer,				
ST05	1		tablet or			SINGL	
Q25	1		smartphone			E	
QZ3						<u> </u>	-
	1		Learning with				
	1		educational				
1	1		software,				
ST05	[		games, apps			SINGL	
Q07			and quizzes			E	
	Please						
	select one		Social				
	answer	Where do	networks (e.g.				RANDO
ST29	for each	you get your	Facebook,			SINGL	MISE
		news from?	-	1	Vec	E	ITEMS
Q01	item.	Hews Holls	Twitter)	1	Yes		כויוםונו
ST29	1		Free	_	NI -	SINGL	
<b>Q02</b>	I		newspapers	2	No	E	j

1	Ī	Ī	Г		<b>.</b>		İ
					Don't know/		
			Paid daily		Prefer		
ST29			newspapers/p		not to	SINGL	
<b>Q06</b>			eriodicals	999	say	Е	
ST29			Digital			SINGL	
<mark>Q10</mark>			newspapers			Е	
			Video-sharing platforms				
ST29			(e.g. YouTube,			SINGL	
Q03			Dailymotion)			E	
ST29						SINGL	
Q04			Television			E	
ST29 Q05			Wikipedia			SINGL E	
ST29			Wikipedia			SINGL	
Q07			Radio			E	
ST29			Your friends			SINGL	
Q08			and family			E	
ST29 Q09			Other			SINGL E	
QUE	Please	How do you	Other			L	
	select one	know the					
I	answer	information					RANDO
ST30	for each	you read is	I trust the		V	SINGL	MISE
Q01	item.	reliable?	news sources I double check	1	Yes	E	ITEMS
ST30			with another			SINGL	
Q02			source	2	No	E	
					Don't		
					know/		
ST30			I trust my		Prefer not to	SINGL	
Q03			intuition	999	say	E	
ST30			I ask my		,	SINGL	
<b>Q04</b>			parents			E	
ST30 Q05			I ask my teachers			SINGL E	
ST30			teachers			SINGL	
Q06			Other			E	
		How often					
		do you do					
		the following school-					
		related					
	Please	activities at					
	select one	home or	Search the				
STOC	answer	locations	Internet for		Never or	SINGL	RANDO
ST06 Q02	for each item.	other than schools?	information for schoolwork	1	almost never	E	MISE ITEMS
Q02	iceiii.	36110013.	Check school		110 V C1	_	112113
			announcemen				
			ts and				
			download,				
			upload or browse				
			learning				
			material on		Several		
ST06			your school's	2	times a	SINGL	
Q09	l		website	2	month	E	

	Email other			
	students		A least	
ST06	about		once a	SINGL
		2		
Q04	schoolwork	3	week	E
	Use other			
	online tools on			
	a computer (			
	e.g. Viber,			
	Google			
	Hangouts,			
	Facebook,		_	
	Skype, etc.) to		Every	
	contact other		day or	
	students		almost	
ST06	about		every	SINGL
Q05	schoolwork	4	day	E
403			uuy	
	applications			
	on a			
] [	smartphone or			
	a tablet			
	(WhatsApp,			
	Viber,			
	Telegram,			
	Google			
	Hangouts,			
	Facebook			
	messenger,			
	etc.) to			
	_		Don't	
	CONTACT OTHER			
	contact other			
STOR	students		know/Pr	SINCI
ST06	students about	000	know/Pr efer not	SINGL
Q18	students	999	know/Pr	Е
Q18 ST06	students about schoolwork	999	know/Pr efer not	E SINGL
Q18	students about schoolwork Email teachers	999	know/Pr efer not	Е
Q18 ST06	students about schoolwork	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer (	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber,	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts,	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook,	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact	999	know/Pr efer not	E SINGL
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to	999	know/Pr efer not	E SINGL E
Q18 ST06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact	999	know/Pr efer not	E SINGL
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp,	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber,	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber, Telegram,	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber, Telegram, Google	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber, Telegram, Google Hangouts,	999	know/Pr efer not	E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber, Telegram, Google Hangouts, Facebook	999	know/Pr efer not	E SINGL E SINGL E
Q18 ST06 Q06	students about schoolwork  Email teachers Use other online tools on a computer ( e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to contact teachers about schoolwork Use mobile applications on a smartphone or a tablet (WhatsApp, Viber, Telegram, Google Hangouts,	999	know/Pr efer not	E SINGL E

contact teachers about schoolwork  Use a word processing, spreadsheet or presentation programme (e.g. Word, Excel, Q20  ST06 Q20  PowerPoint) E  Code/program me apps, programmes and/or robots as part of school Q25  ST06 Q25  Do homework on the Computer  Work with other students on trying to solve a problem using Computers, smartphones  ST06 Q26  ST06 Q26  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E	
about schoolwork  Use a word processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  ST06 Q25  ST06 Q25  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
schoolwork  Use a word processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT  Use computers,	
Use a word processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  ST06 Q25  ST06 Q25  D0 homework on the Computer Work with other students on trying to solve a problem using ICT Use computers,	
processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT  Use computers,	
processing, spreadsheet or presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT  Use computers,	
ST06 Q20  ST06 Q20  ST06 Q20  ST06 Q20  ST06 Q20  ST06 Q25  ST06 Q25  ST06 Q25  ST06 Q25  ST06 Q26  ST06 Q26  ST06 Q27  ST06 Q28  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 Q29  ST06 ST06 Q29  ST06 ST06 ST06 ST06 ST06 ST06 ST06 ST0	
ST06 Q20  ST06 Q20  ST06 Q20  ST06 Q20  ST06 Q25  ST06 Q25  ST06 Q25  ST06 Q01  ST06 Q01  ST06 Q01  ST06 Q01  ST06 Q01  ST06 Q01  ST06 Q01  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  Do homework on the SINGL E  Work with other students on trying to solve a problem using to solve a problem using ICT Use computers,	
presentation programme (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT  Use computers,	
ST06 Q20  ST06 Q20  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer Work with other students on trying to solve a problem using ICT Use computers,  SINGL SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E  SINGL E	
ST06 Q20  (e.g. Word, Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
ST06 Q20  Excel, PowerPoint)  Code/program me apps, programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
PowerPoint) E  Code/program me apps, programmes and/or robots as part of school projects E  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,  E	
Code/program me apps, programmes and/or robots as part of school projects  ST06 Q25  Do homework on the computer  Work with other students on trying to solve a problem using ICT  Use computers,	
me apps, programmes and/or robots as part of school projects  ST06 Q25  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
programmes and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
and/or robots as part of school projects  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
ST06 Q25  Do homework on the SINGL computer  Work with other students on trying to solve a problem using ICT Use computers,	
ST06 Q25  School projects  Do homework on the SINGL computer  Work with other students on trying to solve a problem using ICT Use computers,	
Q25  ST06 Q01  Projects Do homework on the SINGL computer E  Work with other students on trying to solve a problem using ICT Use computers,	
ST06 Q01  Do homework on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
ST06 Q01  on the computer  Work with other students on trying to solve a problem using ICT Use computers,	
Q01    Computer   E	
Work with other students on trying to solve a problem using ICT E  Use computers,	
other students on trying to solve a problem using ICT Use computers,	
on trying to solve a problem using ICT E Use computers,	
ST06 Q26  Solve a problem using ICT Use computers,	
ST06 Q26  problem using ICT Use computers,	
Q26 ICT E Use computers,	
Use computers,	
computers,	
or tablets to	
conduct	
experiments	
(collecting	
data and/or	
images,	
storing them,	
documenting	
ST06 observation, SINGL	
Q27 etc.)	
Learning with	
educational	
software,	
ST06 games, apps SINGL	
Q29 and quizzes E	
Participate in CINCL	
ST06 online learning SINGL	
Q15 programmes E	
Have you	
used a	
desktop	
computer, a	
laptop or	
notebook at	
Please school in the Never or	
ST08   select one   last   3   almost	
Q01 answer. months? 1 never	

	•	•					
					Several		
					times a		
				2	month		
					A least		
					once a		
				3	week		
				)			
					Every		
					day or		
					almost		
					every		
				4	day		
					Don't		
					know/Pr		
					efer not		
				999	to say		
	Please	How often		,,,,	to say		
	select one		Computor				
		do you use	Computer		NI		DANDO
	answer	the following	(e.g. desktop,		Never or		RANDO
ST33	for each	at school for	laptop or		almost	SINGL	MISE
<b>Q01</b>	item.	learning?	notebook)	1	never	Е	ITEMS
	1				Several		
ST33	1				times a	SINGL	
<b>Q02</b>	1		Tablet	2	month	Е	
	1		<del>-</del> -		A least		
ST33					once a	SINGL	
Q03			Smartphone	3	week	E	
QUS			Smartphone	J		L	
					Every		
					day or		
					almost		
ST33					every	SINGL	
<b>Q04</b>			Internet	4	day	E	
					Don't		
					know/Pr		
					efer not		
				999	to say		
				999	to say	"NONE	
	Disease					"NONE	
	Please						
	select one	For which				SHOUL	
	answer	subjects is				D BE	RANDO
ST34	for each	ICT used at				EXCLU	MISE
<b>Q01</b>	item.	school?	Mathematics	1	Yes	SIVE	ITEMS
ST34	1		Natural				
Q02	1		Sciences	2	No		
	1		2 21 211 200	_	Don't		
					know/		
					Prefer		
CT24							
ST34	1			000	not to		
<b>Q03</b>	1		Social studies	999	say		
	1		< <language< td=""><td></td><td></td><td></td><td></td></language<>				
ST34	1		used at				
<b>Q04</b>	1		school>>				
ST34	1		Foreign				
Q05	1		language				
200	Ī	1					
Ĩ			Physical				
CT24			Physical				
ST34			education and				
ST34 Q06			education and health				
Q06			education and health Religion/ethic				
			education and health				

ST34 Q08 ST34 Q09 ST34 Q10 ST34 Q11 ST11 Q09 ST11 Q10	Please select one answer for each item.	How often do you use the following for learning purpose during lessons?	Information and communicatio n technologies (ICT)  Technology Vocational training subject(s)  Other  Your own laptop or notebook brought from home Your own tablet brought from home Your own mobile phone or smartphone brought from home	1 2 3	Never or almost never Several times a month  A least once a week Every day or almost every day Don't know/Pr efer not	RANDO MISE ITEMS
ST12 Q01 ST12 Q02	Please select one answer for each item.	How often do you use the following in lessons?	Digital books and textbooks Exercise software, online quizzes and tests Learning applications on a smartphone or	999 1 2	Never or almost never  Several times a month  A least once a	RANDO MISE ITEMS
Q08 ST12 Q09 ST12 Q10			Text edition tools (e.g. Word) Image edition tools (e.g. Photoshop, GIMP)	4 999	week Every day or almost every day Don't know/Pr efer not to say	

•	•	-					•
			Multimedia				
			production				
			tools (e.g.				
			PowerPoint,				
			video editing,				
ST12			digital				
Q03			recording)				
			Broadcasting				
			tools (publish				
			podcast,				
			upload to a				
			video-sharing				
ST12			platform ,				
Q04			etc.)				
			Data logging				
			tools (e.g.				
ST12	1		temperature				
Q05	1		rise)				
	1		Computer				
	1		simulations				
	1		(interactive				
	1		programme				
			simulating real				
			world				
			phenomena in				
			which you can				
			make changes				
			and see the				
ST12			consequences				
Q06			)				
			Digital				
			learning				
			games,				
ST12			computer/vide				
Q07			o games				
		How often					
	Diagon	do you do					
	Please	the following	Cooreh the				
	select one	learning activities	Search the Internet to		Never or		RANDO
ST13	answer for each	during	collect		almost	SINGL	MISE
Q03	item.	lessons?	information	1	never	E	ITEMS
402	iteiii.	163301131	Download/upl	т_	HEVEI	<u> </u>	11 [11]
	1		oad/ browse				
			material from		Several		
ST13			your school's		times a	SINGL	
Q04			website	2	month	E	
~ .	1		Send or read		A least	_	
ST13	1		email		once a	SINGL	
Q01			messages	3	week	E	
	1				Every		
	1				day or		
	1				almost		
ST13	1		Chat online for		every	SINGL	
Q02	1		school work	4	day	E	
	1		Use a word				
	1		processing,		Don't		
	1		spreadsheet		know/Pr		
ST13	1		or		efer not	SINGL	
<b>Q14</b>	1		presentation	999	to say	Е	

	•	•	<b>-</b>				1
			programme				
			(e.g. Word,				
			Excel,				
			PowerPoint)				
			Code/program				
OT 4 O			ming apps,			CTNICI	
ST13			programmes			SINGL	
<b>Q19</b>			and/or robots			E	
			Use				
			computers to				
			conduct				
			experiments				
			(collecting data and/or				
			images,				
			storing them,				
			documenting				
ST13			observation,			SINGL	
Q07	1		etc.)			E	
	1		Use			_	
	1		smartphones				
			or tablets to				
			conduct				
			experiments				
			(collecting				
			data and/or				
			images,				
			storing them,				
			documenting				
ST13			observation,			SINGL	
<b>Q20</b>			etc.)			Е	
			Use				
			computers			CTNICI	
ST13			when working			SINGL	
Q06			in groups			Е	
CT12			Participate in			SINGL	
ST13 Q10			online training			E	
QIU			programmes Learning with			L	
			educational				
	1		software,				
ST13	1		games, apps			SINGL	
Q21	1		and quizzes			E	
~	1	In lessons,	quizzeo			_	
	1	how often					
	1	are you					
	Please	engaged in					
	select one	the following	We all listen to				
	answer	(whether	teacher		Never or		RANDO
ST14	for each	using ICT or	presentation		almost	SINGL	MISE
Q01	item.	not)?	or explanation	1	never	Е	ITEMS
	1		We all listen to		_		
	1		a student		Several		
ST14	1		presentation	_	times a	SINGL	
Q02	1		or explanation	2	month	E	
	1		We all read				
	1		books or look		۱ ا		
ST14	1		at films or		A least	CINC	
Q03	1		videos at the same time	3	once a week	SINGL E	
l Ang	I	I	same ume	ی	WEEK	<u> </u>	l

	_	_					_
			We all do		Every		
			exercises and		day or		
			tasks		almost		
ST14			individually or		every	SINGL	
Q04			collectively	4	day	Е	
					Don't		
I			We work on		know/Pr		
ST14			school		efer not	SINGL	
Q13			projects	999	to say	E	-
ST14			We work in			SINGL	
Q06			small groups			Е	-
			We investigate				
			and explore				
			issues individually or				
			in small				
			groups and				
			search for				
ST14			information			SINGL	
Q08	1		about it			E	
	1		We try to				1
ST14	1		solve			SINGL	
Q09			problems			Е	<u> </u>
			Students help				
			each other to				
			better				
ST14			understand			SINGL	
Q11		How	and learn			Е	
	Please	confident	File electronic				
	i riease						
Ī							
	select one	are you	documents in				RANDO
ST15	select one answer	are you doing the	documents in computer				RANDO MISE
ST15 Q07	select one	are you	documents in computer folders and	1	A lot		RANDO MISE ITEMS
ST15 Q07	select one answer for each	are you doing the following	documents in computer folders and sub-folders	1	A lot		MISE
	select one answer for each	are you doing the following	documents in computer folders and	1	A lot		MISE
	select one answer for each	are you doing the following	documents in computer folders and sub-folders	1	A lot Somewh		MISE
Q07	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information	1			MISE
Q07 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the		Somewh		MISE
Q07 ST15 Q17	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information		Somewh		MISE
Q07 ST15 Q17 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find	2	Somewh at		MISE
Q07 ST15 Q17	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true		Somewh		MISE
Q07 ST15 Q17 ST15 Q31	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites	2	Somewh at		MISE
Q07 ST15 Q17 ST15 Q31 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising	3	Somewh at A little		MISE
Q07 ST15 Q17 ST15 Q31	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer	2	Somewh at  A little  Not at all		MISE
Q07 ST15 Q17 ST15 Q31 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer  Email a file to	3	Somewh at  A little  Not at all Don't		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot	3	Somewh at  A little  Not at all Don't know/Pr		MISE
Q07 ST15 Q17 ST15 Q31 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer  Email a file to	3	Somewh at  A little  Not at all Don't		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or teacher Use other online tools on	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer  Email a file to someone/anot her student or teacher  Use other online tools on a computer	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or teacher Use other online tools on a computer (e.g. Viber,	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer  Email a file to someone/anot her student or teacher  Use other online tools on a computer (e.g. Viber, Google	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07  ST15 Q17  ST15 Q31  ST15 Q26  ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders  Identify online sources of reliable information  Check if the information that I find online is true  Find websites advertising jobs on offer  Email a file to someone/anot her student or teacher  Use other online tools on a computer (e.g. Viber, Google Hangouts,	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or teacher Use other online tools on a computer (e.g. Viber, Google Hangouts, Facebook,	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15 Q06	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or teacher Use other online tools on a computer (e.g. Viber, Google Hangouts, Facebook, Skype, etc.) to	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE
Q07 ST15 Q17 ST15 Q31 ST15 Q26 ST15	select one answer for each	are you doing the following	documents in computer folders and sub-folders Identify online sources of reliable information Check if the information that I find online is true Find websites advertising jobs on offer Email a file to someone/anot her student or teacher Use other online tools on a computer (e.g. Viber, Google Hangouts, Facebook,	3	Somewh at  A little  Not at all  Don't know/Pr efer not		MISE

	Use mobile		
	applications		
	on a		
	smartphone or		
	a tablet		
	(WhatsApp,		
	Viber,		
	Telegram,		
	Google		
	Hangouts,		
	Facebook		
	messenger,		
	etc.) to		
ST15	contact		
Q33	someone		
	Participate in		
	social		
	networks and		
	use most of		
	their features		
	(e.g.		
	Facebook,		
	Instagram,		
	Twitter,		
ST15	Snapchat,		
Q15	Ask.fm, etc.)		
	Use		
	information		
	found on the		
	internet		
	without		
	plagiarising		
	(e.g.		
ST15	copy/paste in		
Q23	homework)		
	Interacting		
	with other		
	people online		
	in a respectful		
ST15	and polite		
Q34	manner		
	Create blogs		
	or websites		
ST15	and maintain		
Q13	them		
	Produce text		
	using a word		
	processing		
ST15	programme		
Q01	(e.g. Word)		
-	Use		
	spreadsheet		
ST15	programmes		
Q08	(e.g. Excel)		
-	Create a		
	presentation		
ST15	(e.g.		
Q10	PowerPoint)		
ST15	Edit digital		
Q02	photographs		
~~~	priotograpiis	Ì	

							-
			or other				
			graphic				
			images, or				
			videos				
			Code/program				
			me apps,				
ST15			programmes				
<b>Q35</b>			and/or robots				
			Change your				1
			privacy				
			settings (e.g.				
			on a social				
ST15			networking				
Q37			site)				
QU'			Run a virus				•
			scan on your				
			computer to				
ST15	1		detect				
Q38	1		malware				
<del>230</del>	1		Use the				1
	1		Internet safely				
	1		to protect				
	1		yourself				
ST15	1		against				
Q18							
Q10			bullying				
			Use ICT safely				
			to protect your				
			health against				
			the risks of				
			technologies				
			overuse (e.g.				
			insomnia,				
CT4 F			back pain,				
ST15			computer				
Q39			addiction)				
			Update the				
			operating				
			system and				
			applications of				
	1		your .				
	1		computer,				
ST15	1		tablet or				
Q14	1		smartphone				
	1		Learning with				
	1		educational				
	1		software,				
ST15	1		games, apps				
<b>Q43</b>	1		and quizzes				
	1		Participate in				
ST15	1		online training				
Q27	<u> </u>		programmes				
		Do you					
	1	consider					
	1	using ICT					
	1	(computers,					
	Please	tablets,smar	You				
	select one	tphones )	concentrate				
	answer	during	more on what				RANDO
ST16	for each	lessons has	you're			SINGL	MISE
Q01	item.	a positive	learning	1	A lot	E	ITEMS
	,	, , , , , , , , , , , , , , , , , , , ,				. –	,

	I	imme et -:					
		impact on the					
		following?					
			Var. hore bandar				
ST16			You try harder in what you		Somewh	SINGL	
Q02			are learning	2	at	E	
Q02			You feel more		ac	_	
			independent				
ST16			in your			SINGL	
Q03			learning	3	A little	E	
			You				
			understand				
ST16			more easily what you're			SINGL	
Q04			learning	4	Not at all	E	
<b>Q</b> .			You remember	· ·	Don't	_	
			more easily		know/Pr		
ST16			what you've		efer not	SINGL	
Q05			learnt	999	to say	Е	
			ICT enables				
			you to work better with				
ST16			other students			SINGL	
Q06			on tasks			E	
(33			ICT improves				
			the				
			atmosphere in				
			class				
			(students are more				
			engaged,				
ST16			there is less			SINGL	
Q07			disruption)			Е	
		Thinking					
		about the					
		use of ICT in	M				
		your school: to what	My school encourages				
	Please	extent do	me to use my				
	select one	you agree	digital skills in				
	answer	with the	a variety of				RANDO
ST35	for each	following	learning		Strongly	SINGL	MISE
Q01	item.	statements?	activities	1	disagree	Е	ITEMS
			My school				
			promotes responsible				
			online				
			behaviours				
ST35			(e.g. safety,			SINGL	
Q02			privacy)	2	Disagree	Е	
			My school				
			encourages me to use ICT				
			to learn by				
			doing instead				
			of just				
ST35			listening to			SINGL	
<b>Q03</b>			lectures	3	Agree	E	

ST35 Q04			My school expects me to use learning technologies for collaborating with other students and teachers	4	Strongly agree Don't know/	SINGL E	
				999	Prefer not to say		
ST17 Q01 ST17 Q02	Please select one answer for each item.	Thinking about your experience with computers: to what extent do you agree with the following statements?	It is really important for me to work with a computer for learning Using a computer for learning is really fun  I use a computer for learning	2	Strongly disagree Disagree		RANDO MISE ITEMS
ST17 Q03			because I'm very interested in computers	3	Agree		
ST17 Q04			I lose track of time when I'm learning with the computer	4	Strongly agree		
ST17 Q05			It's really worth using a computer because it will help me in the future	999	Don't know/ Prefer not to say		
ST17 Q06			I use a computer to learn as it will help me in the work that I want to do later on I learn things using computers that will help				
ST17 Q07			me to get a job				

ı	ī	Ī					1
			Learning with				
			computer is				
			important for				
			me because I				
			need it for				
ST17			what I want to				
Q08			study later on				
QUU	Please		Study lutter on				
	select one		Discuss the				
							DANDO
	answer		risks of		Never or		RANDO
ST36	for each	How often	Internet with		almost	SINGL	MISE
Q01	item.	do you	your parents?	1	never	Е	ITEMS
			Get support				
			from your				
			parents when				
			doing				
			homework,				
			which require		Several		
ST36			the use of		times a	SINGL	
Q02			ICT?	2	month	E	
QUZ					111011111	<u> </u>	
			brother(s) or				
			sister(s) when				
			doing				
			homework,				
			which require		At least		
ST36			the use of ICT		once a	SINGL	
<b>Q03</b>			(if applicable)?	3	week	Е	
					Every		
					day or		
					almost		
					every		
				4	day		
					Don't		
					know/Pr		
					efer not		
				999			
	DI.			999	to say		
OT 4 0	Please					CTNIC	
ST18	select one	١.			l	SINGL	
Q01	answer.	Are you		1	Female	E	
				2	Male		
					Prefer		
					not to		
				999	say		
	Please						
ST19	select one	When were			Before	SINGL	
Q01	answer.	you born?		1	2000	E	
				2	2000		
				3	2001		
				4	2002		
				5	2003		
				6	2004		
				7	2005		
					After		
				8	2005		
					Prefer		
					not to		
				999	say		
<u> </u>				フフフ	say	]	

	Please	ĺ				
ST19	select one				SINGL	
Q02	answer.	Month		January	E	
QUZ	answer.	Month	2		L	
			3	February		
				March		
			4	April		
			5	May		
			6			
			7	July		
			8			
				Septemb		
			9			
			10	October		
				Novemb		
			11	er		
			42	Decemb		
		10/200	12	er		
		Were you born in the				
		same				
	Please	country as				
ST20	select one	your present			SINGL	
Q01	answer.	school is in?	1	Yes	E	
QU-	answer.	3611001 13 111.	2		_	
				Don't		
				know/		
				Prefer		
				not to		
			999	say		
		How long		<u> </u>		
		have you				
		been living				
		1 5 5 5 11 11 11 19				
		in the				
		in the country				
	Please	in the country where you		Less		
ST40	select one	in the country where you now go to		than 1	SINGL	
ST40 Q01		in the country where you	1	than 1 year	SINGL E	
	select one	in the country where you now go to	1	than 1 year Betwee		
	select one	in the country where you now go to		than 1 year Betwee n 1 and		
	select one	in the country where you now go to	1	than 1 year  Betwee n 1 and 5 years		
	select one	in the country where you now go to		than 1 year  Betwee n 1 and 5 years  Between		
	select one	in the country where you now go to	2	than 1 year  Betwee n 1 and 5 years  Between 6 and 10		
	select one	in the country where you now go to		than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years		
	select one	in the country where you now go to	2	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More		
	select one	in the country where you now go to	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10		
	select one	in the country where you now go to	2	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years		
	select one	in the country where you now go to	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer		
	select one	in the country where you now go to	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to		
	select one	in the country where you now go to school?	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say		
	select one	in the country where you now go to	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to		
	select one answer.	in the country where you now go to school?  Who do you live with	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother		
Q01	select one answer.	in the country where you now go to school?	3	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father	E	
Q01	Please select one	in the country where you now go to school?  Who do you live with most of the	<b>3 4</b> 999	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father	SINGL	
Q01	Please select one	in the country where you now go to school?  Who do you live with most of the	<b>3 4</b> 999	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father together  Only	SINGL	
Q01	Please select one	in the country where you now go to school?  Who do you live with most of the	3 4 999	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father together  Only	SINGL	
Q01	Please select one	in the country where you now go to school?  Who do you live with most of the	3 4 999	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father together Only mother	SINGL	
Q01	Please select one	in the country where you now go to school?  Who do you live with most of the	999 1	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father together  Only mother and stepfath	SINGL	
Q01 ST39	Please select one	in the country where you now go to school?  Who do you live with most of the	3 4 999	than 1 year  Betwee n 1 and 5 years  Between 6 and 10 years  More than 10 years  Prefer not to say  Mother and father together  Only mother and stepfath	SINGL	

					Only		
				4	father		
					Stepmot		
					her and		
				5	father		
					Sometim		
					es with		
					mother		
					and		
					sometim		
					es with		
				6	father		
					Other		
				7	relative		
					Guardian		
					or foster		
				8	parent		
					Alone or		
					with		
				9	friends		
					Prefer		
					not to		
				999	say		
		What is the			,		
		highest level					
	Please	of education					
ST21	select one	completed			< <isce< td=""><td>SINGL</td><td></td></isce<>	SINGL	
Q01	answer.	by .	Your mother	1	D 6>>	E	
ST21		,			< <iisce< td=""><td></td><td></td></iisce<>		
<mark>Q03</mark>			Your father	2	D 5A>>		
					< <isce< td=""><td></td><td></td></isce<>		
				3	D 5B>>		
					< <isce< td=""><td></td><td></td></isce<>		
				4	D 4>>		
					<<		
					ISCED		
				5	3A>>		
					< <isce< td=""><td></td><td></td></isce<>		
				6	D 3B>>		
					< <isce< td=""><td></td><td></td></isce<>		
				7	D 3C>>		
					< <isce< td=""><td>-</td><td></td></isce<>	-	
				8	D 2>>		
					< <isce< td=""><td></td><td></td></isce<>		
				9	D 1>>		
					Don't		
					know/Pr		
					efer not		
				999	to say		
			Which of the		Humaniti		
			following		es, arts		
	Please		branches is		and		
ST24	select one		closest to the		educatio	SINGL	
Q01	answer.		one you're in?	1	n	Е	
					Educatio		
				2	n		
					Humaniti		
					es and		
				3	arts		

•				ì
			Health	
			and	
		4	welfare	
			Social	
			sciences,	
			business	
		5	and law	
		6	Services	
			Engineer	
			ing,	
			manufac	
			turing	
			and	
			construc	
		7	tion	
		8	Sciences	
			Life	
		9	sciences	
			Physical	
		10	sciences	
			Mathem	
			atics and	
		11	statistics	
			Computi	
		12	ng	
			Agricultu	
		13	re	
			Don't	
			know/Pr	
			efer not	
		999	to say	

# A1.4 Parent questionnaire

PARENT	PARENT QUESTIONNAIRE									
QUEST ION ID	INSTR UCTIO N	MAIN QUEST ION LABEL	SUB QUESTIO N LABEL	VALUE CODES	VALUE LABEL	SING LE/ MUL TIPL E	ROTA TION			
PA01Q 01	Please select one answer.	At what school grade is your child who particip ates in the survey?		1	< <isced 1<br="">level&gt;&gt;</isced>					
		,		2	< <isced 2<br="">level&gt;&gt;</isced>					
				2	< <isced 3<="" td=""><td></td><td></td></isced>					
		1		3	academic>>					

PA02Q	. I		İ	Г		10050	1	Ī
PA02Q	1							
PA02Q   O1	i				4			
PA02Q   O1			How			Vocacional>>		
PA03Q	1							
PA03Q   PA04Q   Please select one devices for each item.   Please answer for each item.   Pa04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   PA04Q   Pa	i							
PA03Q								
PA03Q 01  Phase select connect all answers you that have at apply.  PA04Q 01  Please select connect all in do answers you that have at apply.  PA04Q 01  PA04Q 01  PA04Q 01  PA04Q 02  PA04Q 03  PA04Q 03  PA04Q 04  PA04Q 04  PA04Q 05  PA0	01				0-9999		LE	
Please select all select connect all select to many select to many part of reach for each for each for each for each garage.   Pa04Q 03 Pa04Q 04 Pa04Q 04 Pa04Q 04 Pa04Q 04 Pa04Q 04 Pa04Q 05 Pa04Q 04 Pa04Q 05	1							
Please select all answers that apply.	i							
PA03Q of answers of that apply.	i	Dlaaca						
PA03Q   all   ion   do   you   that   have at   apply.	i		-					
PA03Q	1							
PA04Q   O1   Please   Sing   Pa04Q   O2   PA04Q   O3   PA04Q   O4   PA04Q   O4   PA04Q   O4   PA04Q   O4   PA04Q   O5   PA04Q   O5   PA04Q   O5   PA04Q   O5   PA04Q   O5   PA04Q   O5   PA04Q   O5   PA04Q   O5   Passes   Pa04Q	1	answers						
PA04Q   O1   Please   Sing   PA04Q   O2   PA04Q   O3   PA04Q   O4   PA04Q   O4   PA04Q   O5   PA04Q   PA04Q   O5   PA04Q   O5   PA04Q   PA04Q   O5   PA04Q   PA04Q   O5   PA04Q   PA04Q   O5   PA04Q		that						
PA04Q   O1   Please   Sing   Sing   Pa04Q   O1   Please   Sing	01	apply.	home?				IPLE	
PA04Q	1							
PA04Q	i							
PA04Q   O1	1			_				
PA04Q 01 Please select one answer for each item. PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 05	1							
PA04Q 01  Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 05 PA04Q	1				996			
PA04Q 01  Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 04 PA04Q 05  PA04Q 05	1				000			
PA04Q 01  Please select child one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 05  PA04Q 05  PA04Q 05  PA04Q 05  PA04Q 05  PA04Q 05  PA04Q 05  PA04Q 05			Which		333	Freier flot to say		
PA04Q 01  Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 04 PA04Q 05  PA04Q 05  PA04Q 05  Followin g computer (e.g. desktop, laptop, or notebook)  Computer (e.g. desktop, laptop, or notebook)  Tablet 2 No  Mobile phone 999 Prefer not to say  Smartphon e  E-reader (a device to read books and newspaper s on select on read books and newspap	1							
PA04Q 01  Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 O4 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05	1							
PA04Q 01  Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 04 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 06 PA04Q 07 PA04Q 08 PA04Q 09 PA04Q	1							
Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 05  PA04Q 05 PA04Q	i							
Please select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04  PA04Q 04  PA04Q 05  PA04Q 0	PA04Q							
Select one answer for each item.  PA04Q 02 PA04Q 03 PA04Q 04  PA04Q 04  PA04Q 05  PA04Q 05  PA04Q 05  Select child have access to at home?  Tablet  Tablet  Tablet  2 No  Mobile Don't know/ Prefer not to say  Smartphon e  E-reader (a device to read books and newspaper s on		Dloaco						
One answer for each item.	i							
PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 04 PA04Q 05  for each item.  to at home?  Tablet  Tablet  2 No Mobile Don't know/ Prefer not to say  Smartphon e  E-reader (a device to read books and newspaper s on	i			notes only				
PA04Q 02 PA04Q 03 PA04Q 04 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q 05 PA04Q PA04Q 05 PA04Q PA0	1	answer	access					
PA04Q 02 PA04Q 03 PA04Q 04  E-reader (a device to read books and newspaper s on	1							
PA04Q O3 PA04Q O4  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O5  PA04Q O6  PA04Q O6  PA04Q O7  PA04Q O	1	item.	home?		1	Yes	LE	
PA04Q 03 PA04Q 04  E-reader (a device to read books and newspaper s on				Tablet	2	NI-		
phone 999 Prefer not to say  Smartphon e  E-reader (a device to read books and newspaper s on								
PA04Q 04  PA04Q 05  Smartphon e  E-reader (a device to read books and newspaper s on					999			
PA04Q 05  e E-reader (a device to read books and newspaper s on						Trefer flot to say		
PA04Q 05  E-reader (a device to read books and newspaper s on								
PA04Q to read books and newspaper s on				E-reader				
books and newspaper s on				`				
newspaper s on	PA040							
s on								
screen)				screen)				
Video								
gaming								
PA04Q system				system				
06 (e.g. Xbox,	06							
PlayStation								
, Wii) Handheld								
PAU4Q   games								
07 games console	07							

	1	1		r		ı	1 1
			(e.g. PSP,				
			Nintendo DS)				
			Wearable				
DA040			devices				
PA04Q 08			(e.g.				
			smartwatc				
		How	h)				
		often					
	Please	do you					
	select	take					
PA05Q	one	part in the					
01	answer	followin	Reading				RAND
	for each item.	g	and				OMIS
	iteiii.	activitie	watching				E
		s at home?	the news online	1	Never or almost	SING LE	ITEMS
		nome:	Searching	1	never	<u> </u>	11 [113
			online for				
			practical				
			informatio n (e.g.				
PA05Q			seats at a				
02			match/con				
			cert,				
			shopping, train				
			times,		Several times a	SING	
			health)	2	month	LE	
			Searching				
			different sources				
			online for				
			informatio				
PA05Q			n and				
03			learning about a				
			particular				
			topic				
			you're interested		At least once a	SING	
			in	3	week	LE	
			Watching				
			video clips, downloadi				
PA05Q			ng music,				
04			games,				
			software		Every day or	<b></b> .	
			from the Internet	4	almost every day	SING LE	
			Searching	4	uay	LL	
PA05Q			online for				
20			job				
			opportuniti es	999	Don't know/ Prefer not to say	SING LE	
PA05Q			Sending	777	THEIR HOLLOSAY	SING	
05			and			LE	

	i		 	
		reading		
		emails		
		Participatin		
		g in social		
		networks		
		and use		
		most of		
D4050		their		
PA05Q		features		
08		(e.g.		
		Facebook,		
		Instagram,		
		Twitter,		
		Snapchat,		
		Ask.fm,		SING
		etc.)		LE
PA05Q		Chatting		SING
06		online		LE
		Using		
		online		
DAGEG				
PA05Q		banking		
10		and		CTNIC
		governme		SING
		nt services		LE
PA05Q		Doing		
12		online		SING
12		shopping		LE
		Using a		
		word		
		processing		
		, spreadshe		
		et or		
PA05Q		presentati		
13		on		
15				
		programm		
		e (e.g.		
		Word,		
		Excel,		
		PowerPoint		SING
		)		LE
		Maintainin		
PA05Q		g your own		
14		website or		SING
		blog		LE
		Coding/pro		
		gramming		
PA05Q		apps,		
15		programm		
		es and/or		SING
		robots		LE
				<u> </u>
		Checking		
		your		
		privacy		
PA05Q		settings		
17		(e.g. on a		
		social		
		networking		SING
		site)		LE

PA05Q 18			Update the operating system and application s of your computer, tablet or smartphon e  Learning with			SING LE	
PA05Q 19			educationa I software, games, apps and quizzes			SING LE	
PA24Q 02	Please select one answer.	How confide nt are you in your ability to recogni se fake news (intenti onal spread of false informa tion)?		1 2 3 4 999	A lot Somewhat A little Not at all Don't know/ Prefer not to say	SING LE	
PA07Q 01	Please select one answer.	When your child is online, do you know what s/he is doing (e.g. school work, playing games, browsin g the Interne t)		1	Yes, I feel I know enough One or two things, but there are a lot of	SING LE	

	1	ı					1
					things I am not		
					aware of		
					I don't know as		
					much as I would		
					like to about my		
					child's computer		
				3	use		
					I don't know		
					anything about		
				4	my child's		
				4	computer use		
				000	Don't know/		
			Talk to	999	Prefer not to say		
	Please	How					
	select	often	your child about what				
PA08Q	one	do you	s/he does				RAND
01	answer	do the	with ICT or				OMIS
	for each	followin	the			SING	E
	item.	g?	Internet	1	Daily	LE	ITEMS
			Stay		,		
			nearby				
PA08Q			when your				
02			child uses				
			ICT or the			SING	
			Internet	2	Weekly	LE	
			Sit with		,		
			your child				
PA08Q			while s/he				
03			uses ICT or				
			the			SING	
			Internet	3	Monthly	LE	
			Do				
			activities				
			together				
			with ICT or				
			the				
PA08Q			Internet				
04			(e.g. play				
			games,				
			watch				
			online				
			videos, use social		Less than once	SING	
			networks)	4	a month	LE	
			Assist your	4	a month	<u> </u>	
			child in				
			benefiting				
			from the				
			opportuniti				
			es offered				
D			by ICT and				
PA08Q			the				
05			Internet				
			(e.g.				
			learning,				
			communic				
			ation,				
			entertainm			SING	
			ent,	5	Never	LE	

PA08Q 06			creativity, self- expression and civic participatio n) Encourage your child to explore and learn things on the Internet	998 999	I don't know Prefer not to say	SING LE	
PA09Q 01	Please select one answer for each item.	How often does your child get support in doing homew ork, which require s the use of ICT (e.g. a comput er or a tablet)?	From you	1	Daily	SING LE	RAND OMIS E ITEMS
PA09Q 02 PA09Q			From his/her brother(s) or sister(s) Other	2	Weekly	SING LE SING	
03			relative	3	Monthly Less than once	LE	
				4	a month		
				5	Never		
				998	I don't know		
			Teach your	999	Prefer not to say		
PA06Q 01	Please select one answer for each item.	Are you confide nt doing the followin g?	child how to behave safely online (e.g. prevent cyberbullyi	1	Yes	SING LE	RAND OMIS E ITEMS
PA06Q 02			Teach your child how to behave safely to protect his/her privacy	2	No	SING LE	

PA06Q 03			Teach your child how to manage their digital identity and reputation	999	Don't know/ Prefer not to say	SING LE	
PA10Q 01	Please select one answer for each item.	When not togethe r, how often do you commu nicate with your child using the followin g means:	Phone call	1	Daily	SING LE	RAND OMIS E
PA10Q			SMS			SING	
02			3143	2	Weekly	LE SING	-
PA10Q 03			E-mail	3	Monthly	LE	
PA10Q 04			Instant messaging (e.g. WhatsApp, Viber, Telegram, Google Hangouts, Facebook messenger , etc.) Internet	4	Less than once a month	SING LE SING	
05			audio call	5	Never	LE	
PA10Q 06		Have	Video call (e.g. Skype, FaceTime)	998 999	I don't know Prefer not to say	SING LE	
PA11Q 01	Please select one answer for each item.	How often do you use the followin g means of commu nication to contact your child's teacher	Emails	1	(Almost) never	SING LE	

		s (e.g.					
		regardi					
		ng homew					
		ork,					
		deadlin es,					
		child's					
		behavio					
		ur at school)					
		?					
			Mobile application				
			s on a				
PA11Q			smartphon				
02			e or tablet (e.g.				
			WhatsApp,		Several times a	SING	
			Telegram) Online	2	month	LE	
			tools/				
			platforms				
PA11Q			on a computer				
03			(e.g.				
			Showbie) to contact		At least once a	SING	
			parents	3	week	LE	
				4	(Almost) every day		
					Don't know/		
		Do you		999	Prefer not to say		
		think	Use the				
	Please	that	Internet				
	select	your child is	safely to				
PA12Q 01	one answer	compet	protect him/hersel				
	for each	ent doing	f against				RAND OMIS
	item.	the	cyberstalki ng				E
		followin g?	119	1	Yes	SING LE	ITEMS
		9.	Use the				116110
PA12Q			Internet safely to				
02			protect				
			his/her	_	NI -	SING	
			privacy Use the	2	No	LE	
			Internet				
PA12Q			safely to protect				
03			his/her				
			online	222	Don't know/	SING	
			reputation Use the	999	Prefer not to say	LE	
PA12Q 04			Internet			SING	
07			safely to			LE	

			protect				
			his/her health				
			against the risks of				
			technology overuse				
			(e.g.				
			insomnia, back pain,				
			computer addiction)				
			Take measures				
			to protect the				
D4430			environme				
PA12Q 05			nt when using ICT				
			(e.g. avoid printing,				
			turn off your			SING	
		How	computer)			LE	
		often do you					
	Please	discuss					
PA13Q	select one	the followin	Cyberbullyi				
01	answer for each	g ICT- related	ng				
	item.	safety issues					RAND OMIS
		with your				SING	E
		child:	Privacy-	1	Very often	LE	ITEMS
PA13Q			related risks (e.g.				
02			identity theft)	2	Often	SING LE	
			Online		J.C.II		
			reputation risks (e.g.				
PA13Q 03			posting a personal				
			photo on a public				
			blog, sexting)	3	Sometimes	SING LE	
			Fake news (intentiona	_	-		
PA13Q 06			I spread of false				
			informatio	4	Domoly	SING	
PA13Q			n) Risks of	4	Rarely	LE	
04			being exposed to	5	Never	SING LE	

1	Í	Ī		Г	Г		1
			inappropri				
			ate content				
			online Health				
			issues				
			caused by				
			technology				
PA13Q			overuse				
05			(e.g.				
			insomnia,				
			back pain,		Don't know/	SING	
			computer addiction)	999	Prefer not to say	LE	
		Which	addiction	333	Therefinde to say	<u> </u>	
		rules					
		have					
		you put					
	Please	in place at					
	select	home					
	one	regardi			No special rule		
	answer for each	ng the			·		
	item.	use of					
		the followin					RAND
		g by					OMIS
PA15Q		your				SING	E
01		child?	Internet	1		LE	ITEMS
					Allowed at any		
PA15Q			Computer		time or almost		
02			(desktop, laptop,		anytime without asking	SING	
			notebook)	2	permission	LE	
			•		Allowed at any		
PA15Q					time or almost		
03			Cmartaban		anytime but my	CINC	
			Smartphon e	3	child needs to ask permission	SING LE	
				, ,	Only allowed for	<u> </u>	
PA15Q					certain activities		
04					(e.g.	SING	
			Tablet	4	homework)	LE	
			Handheld games				
PA15Q			console		Only allowed at		
05			(e.g. PSP,		certain		
			Nintendo		times/hours	SING	
			DS)	5		LE	
			Video				
PA15Q			gaming system				
06			(e.g. Xbox,		Other		
			PlayStation			SING	
			, Wii)	995		LE	
					Don't		
				999	know/Prefer not to say		
	L	L	L	<b>フフフ</b>	l to say		l

		Which	Online				
PA16Q	Please select one	of the followin g parenta	content filters (e.g. adult- related sites,				
01	for each	l control tools do	illegal activity,				RAND OMIS
	item.	you use for your	social networking			SING	E
		child?	sites) Program	1	Yes	LE	ITEMS
			blocker to stop your				
PA16Q 02			child from running				
			certain	2	No	SING LE	
			programs Tool to limit time		INO	LL	
PA16Q			spent on the				
03			computer,				
			smartphon	999	Don't know/ Prefer not to say	SING LE	
			e Geolocatio n service	999	Prefer flot to say	LL	
			on your child's				
PA16Q 04			mobile device to				
			track his/her			SING	
PA16Q			position			LE SING	
05			Other			LE	
PA16Q 06			None			SING LE	
		Have you					
		ever experie nced					
	Please select	the followin					
PA17Q 01	one answer	g issues in					
01	for each item.	relation to your					
	iceiii.	child's use of					RAND OMIS
		ICT and internet	Cyberbullyi			SING	E
		?	ng Privacy-	1	Yes	LE	ITEMS
PA17Q 02			related issues			SING	
02			(e.g.	2	No	LE	

ĺ	I	I	i al a se tite	<u> </u>		<u> </u>	1
			identity				
			theft)				
			Online				
			reputation				
			risks (e.g.				
PA17Q			posting a				
03			personal				
			photo on a				
			public				
			blog,		Don't know/	SING	
			sexting)	999	Prefer not to say	LE	
			Your child				
			came				
PA17Q			across				
04			inappropri				
			ate online			SING	
			content			LE	
			Health				
			issues				
			caused by				
			technology				
PA17Q			overuse				
05			(e.g.				
			insomnia,				
			back pain,				
			computer			SING	
			addiction)			LE	
			Your child				
			made a				
			purchase				
D. 4.70			using your				
PA17Q			credit/debi				
06			t card				
			without				
			your			SING	
			permission			LE	
		Do you					
		conside					
		r that					
	Please	the use					
	select	of ICT	My child				
PA19Q	one	at	understan				
01	answer	school	ds more				
01	for each	has a	,				
	item.	<u>positive</u>	s/he learns				RAND
	1001111	impact					OMIS
		on the					Е
		followin				SING	
		g?		1	A lot	LE	ITEMS
			My child				
			remember				
PA19Q			s what				
02			s/he has				
\ \frac{1}{2}			learnt				
			more			SING	
			easily	2	Somewhat	LE	
PA19Q			My child				
03			concentrat			SING	
			es better	3	A little	LE	

	İ	ĺ	My child is				
PA19Q			more				
04			motivated			SING	
			to learn	4	Not at all	LE	
			My child				
PA19Q			can learn				
05			at his/her		Don't know/	SING	
			own pace	999	Prefer not to say	LE	
PA19Q			Students			07110	
06			collaborate			SING	
			better Students			LE	
			and				
PA19Q			teachers				
07			communic			SING	
			ate better			LE	
			Learning to				
			use ICT				
			and				
			Internet will later				
PA19Q			help my				
08			child				
			finding a				
			job in the				
			labour			SING	
			market			LE	
	Please	What is					
PA20Q	select one	your				SING	
01	answer.	age?		1	30 or less	LE	
-	answerr			2	31-35		
				3	36-45		
				4	46-55		
				5	More than 55		
				999	Prefer not to say		
		What is			,		
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		highest					
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				7	< <isced 3c="">&gt;</isced>		
				8	< <isced 2="">&gt;</isced>		
				9	< <isced 1="">&gt; Don't know/</isced>		
				999	Don't know/ Prefer not to say		
L	l	j		J フラブ	i reiei not to say		

# Annex 2 Registration survey for head teachers

### [PROG: TITLE OF PAGE - TO BE SHOWN FOR ALL QUESTIONS]

#### REGISTRATION FORM - EUROPEAN WIDE SURVEY ON ICT IN SCHOOLS

cprogram languages related to the country:

ICT country	Language	Second language
Austria	German	
Belgium	French	Dutch
Bulgaria	Bulgarian	
Croatia	Croatian	
Cyprus	Greek	
Czech	C	
Republic	Czech	
Denmark	Danish	
Estonia	Estonian	6 1: 1
Finland	Finnish	Swedish
France	French	
Germany	German	
Greece	Greek	
Hungary 	Hungarian 	
Iceland	Iceland	
Ireland	English	
Italy	Italian	
Latvia	Latvian	
Lithuania	Lithuanian	
Luxembourg	French	German
Malta	Maltese	English
Norway	Norwegian	
Netherlands	Dutch	
Poland	Polish	
Portugal	Portuguese	
Romania	Romanian	
Slovakia	Slovakian	
Slovenia	Slovenian	
Spain	Spanish	
Sweden	Swedish	
Turkey	Turkish	
UK	English	

### [PROG: SHOW ONLY IN BELGIUM)

QLANGUAGE\_BE. Gelieve de taal te selecteren waarin u wenst verder te gaan. / Veuillez sélectionner la langue dans laquelle vous souhaitez continuer.

[PROG: SINGLE]

1: Nederlands [PROG: IF SELECTED → CONTINUE SCRIPT IN DUTCH]

#### 2: Français [PROG: IF SELECTED → CONTINUE SCRIPT IN FRENCH]

### [PROG: SHOW ONLY IN Luxembourg)

QLANGUAGE\_LUX. Veuillez sélectionner la langue dans laquelle vous souhaitez continuer / Please select the language in which you would like to continue.

[PROG: SINGLE]

1: Français [PROG: IF SELECTED → CONTINUE SCRIPT IN FRENCH]2: German [PROG: IF SELECTED → CONTINUE SCRIPT IN GERMAN]

#### [PROG: SHOW ONLY IN MALTA)

QLANGUAGE\_MT. Please select the language in which you would like to continue/ Please select the language in which you would like to continue.

[PROG: SINGLE]

1: Maltese [PROG: IF SELECTED → CONTINUE SCRIPT IN MALTESE]
2: English [PROG: IF SELECTED → CONTINUE SCRIPT IN ENGLISH]

#### [PROG: SHOW ONLY IN FINLAND)

QLANGUAGE\_FI. Please select the language in which you would like to continue/ Please select the language in which you would like to continue.

[PROG: SINGLE]

1: Finnish [PROG: IF SELECTED → CONTINUE SCRIPT IN finnish]
2: Swedish [PROG: IF SELECTED → CONTINUE SCRIPT IN Swedish]

#### [PROG: intro)

Welcome to the registration form of the European Survey of Schools: Information and Communication technologies (ICT) in Education, carried out by the European Commission. As indicated earlier, your school has been selected randomly from the list of all schools in your country and we would kindly like to invite your school to participate.

As part of the survey, we aim to collect data from schools across 30 countries (EU 28, Iceland and Turkey). In each school, we will aim to interview head teachers, class teachers, students (from lower secondary, upper secondary and upper secondary vocational levels) and students' parents (from primary, lower secondary, upper secondary and upper secondary vocational levels).

#### [PROG: ASK ALL]

- O1. Can you please confirm your role within the school?
  - 1. Head teacher
  - 2. Deputy head teacher
  - 3. School secretary / Head of administration
  - 4. Anything else

### [PROG: ASK IF Q1=2, 3, 4]

Q2. This registration form should be filled in by the school head teacher. Can you please provide us with the email address of the head teacher? We will automatically forward the invitation letter to him/her.

Please note that the head teacher's email address will remain strictly confidential. We will only use this in order to send the survey invitation letter to him/her.

[PROG: ALLOW BACK BUTTON TO MOVE BACK TO Q1]

[PROG: OPEN 500 CHARACTERS]

Enter email address:

[PROG: IF EMAIL ADDRESS IS PROVIDED SHOW EXIT TEXT]

Thank you for providing the head teacher's email address. The invitation letter has been forwarded.

[PROG: ASK IF Q1=1]

Q3. We would very much appreciate the participation of your school in this important international survey funded by the European Commission. Your school has been selected randomly from the list of all schools in your country. For the accurateness of the results in your country, it is extremely important that your school takes part in the survey.

Can you confirm that you agree with your school's participation to the survey?

- 1. Yes
- 2. No

[PROG: ASK IF Q3=2]

- Q4. This study is really important, as its outcomes will be used in order to define the conditions of an effective "highly equipped and connected classroom" in primary and secondary education, and to estimate how much it would cost to equip and connect primary and secondary classrooms across Europe. [ADD FOR DE only: "All schools that participate in the study will be emailed the results of the study for Germany, this will include a classification of how the school performs on a number of indicators, compared to other schools in Germany"]May we please ask you to reconsider your school's participation?
  - 1. Yes
  - 2. No

[PROG: IF Q4=2 SHOW EXIT TEXT AND CODE AS REFUSAL]

Thank you very much for informing us. We have no further questions for you.

[PROG: IF Q3 OR Q4 =1]

Thank you very much for confirming that your school can take part in the survey. It is much appreciated. Let's continue with the registration. It will only take a couple of minutes.

Q5. Can you please confirm you are working in the school below?

[PROG: <take the name from sampling frame>

- 1. Yes
- 2. No

[PROG: IF Q5 = 2]

Q6. Can you please provide the name of your school?

#### [PROG: OPEN 500 CHARACTERS]

Q7. How many students currently attend the school? If you don't know the exact number, please provide an estimation.

[PROG: NUMERIC - 5 POSITIONS]

Enter the number of students:

Q9. Which of the following education levels are there in your school?

#### [PROG: USE SEPARATE EXCEL FILE WITH COUNTRY SPECIFIC ISCED LISTS]

Q10. In order to conduct this survey, we will need you to appoint a survey coordinator in your school. This can be either yourself, as head teacher, or anyone else you wish to appoint (e.g. it can be either a class teacher, or a member of the school's administrative staff). He/she will get access to a web platform to manage the completion of the surveys (head teacher's survey, teachers' surveys and class surveys). The school coordinator would need to spend approx. 3-4 hours during the **entire** fieldwork period on the coordination of data collection in the school (e.g. follow up with non-responses and respond to any queries).

Can you please provide us with the email address of the person you would like to appoint as survey coordinator in your school? We will automatically forward instructions and access to the survey management platform to him/her.

Please note that this person's email address will remain strictly confidential. We will only use this in order to send the survey materials to him/her.

[PROG: OPEN 500 CHARACTERS]

Q10b Please confirm email address.

Please note that this person's email address will remain strictly confidential. We will only use this in order to send the survey materials to him/her.

[PROG: CHECK if text at Q10 = Q10b; if email address entered at Q10b  $\neq$  Q10, show Q10b again in red and add error message:

The email addresses you entered do not correspond. Please check and enter the correct email address. Thank you.

[PROG: OPEN 500 CHARACTERS]

Q11. Can you please also provide a telephone number where we can reach the survey coordinator of your school, in case this should be required?

[PROG: question is not obligatory and can be skipped without answer]

This number will be kept confidential and we will only be used in case we will need to (e.g. for communicating additional information, or to resolve any issues which may occur during the data collection process).

[PROG: OPEN 500 CHARACTERS]

Q12 Thank you very much. Your school's participation in the survey is now registered. All necessary information about the project will be sent to the survey coordinator you have assigned.

As part of this survey the school's head teacher shall also fill in a short questionnaire. It will only take you 15 minutes. Are you happy to fill in the survey now?

- 1. Yes, I would like to answer the survey now
- 2. No, I would prefer answering the survey later

[PROG: IF Q12=1 START HEAD TEACHER SURVEY]

[PROG: IF Q12=2 SHOW EXIT TEXT AND SEND SURVEY INVITATION BY EMAIL]

Thank you for completing this registration form. We will send you an email invitation to provide you with the link to the head teacher's survey.

### Annex 3 School coordinator manual







#### **School Coordinator Instructions Manual**

#### Introduction and overview of the survey

Thank you for your help in coordinating this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

In each school we will aim to interview <u>one selected class of each the following educational levels</u>: the last year of primary education, the last year of lower secondary education, the last year of general upper secondary education and the last year of upper secondary vocational education. We will interview the <u>school head teacher</u>, and, for each selected class, we will interview <u>students</u> (<u>apart from those in primary education</u>), <u>teachers</u>, and students' parents.

(**FOR DE, Replace paragraph above with:** The survey will collect data from one class in each school. We will interview the <u>school head teacher</u>, <u>students (apart from those in primary education)</u>, <u>teachers</u>, <u>and students' parents</u>.)

#### Your support is of crucial importance for the success of this survey!

As school coordinator we will need your support in order to help us interview the following targets:

- Students (of lower secondary, upper secondary and upper secondary vocational levels) from the selected class(es) in your school
- Parents of students from the selected classes
- Some of the teachers who teach the selected classes:

Between one and four classes may be selected from your school. All interviews will be carried out online.

In order to simplify your task, the survey has been automated as much as possible. You will be asked to provide some information via the present questionnaire. Based on this information we will select which classes should participate in the survey. We will also select the teachers, and send them the survey link via email. We also have designed a user-friendly platform on which you will be able to see progress of the survey in your school. An email with a link towards the platform will be sent to you.

The present document includes all the information you need in order to know about how to use the platform, and how to manage the survey, so please read it carefully!

We strongly recommend that you print this document for future reference. The manual will also be available on the platform (a link towards the platform will be sent to you via email).

As part of the survey administration process, we would like to kindly ask for your help with the following tasks:

# 1. Complete the present questionnaire as accurately as possible. The answers you provide will enable us to select the classes and teachers who should be interviewed from your school.

As part of the questionnaire, you will be asked to provide the names of all classes from the <u>last grade of each selected level</u>. Among these classes, the system will randomly select the classes which should be surveyed. You will also receive the list of selected classes by email.

For each of the selected classes, you will be asked to provide the first name (or initials) of some of the teachers:

- Primary education: main teacher(s)
- Lower and upper general secondary education: teachers of mathematics, sciences and main language
- Vocational upper secondary education: the 3 teachers with the highest number on instructional hours

Among these teachers (if several) through an algorithm, the system will select those who should take part in the survey. As part of the questionnaire you will also be asked to provide the email address(es) of the selected teacher(s). Once you do so, we will automatically send them an email with the link to the questionnaire so that they can complete it.

#### NOTE:

- When answering Q3 please fill in only the names of the class of the last year (or last grade) from each requested level
- When answering Q4: please refer only to the "main" teacher(s) and not those who have a small number of instruction hours (e.g. such as the sports teacher, music, art etc.).
- When asked to type in the email addresses of the selected teachers, please make sure these are accurate, as a link with the survey will be automatically sent to them.

You do not need to complete the survey questionnaire in one go. You can re-access the survey questionnaire by clicking on the link. Any information provided earlier will not need to be re-entered.

Once you have finished filling out the questionnaire, an email will be sent to you, with a link to a platform, where you will have a list of all classes (students), teachers and parents who need to be interviewed as part of the project.

In terms of next steps, your support will be requested in order to:

- Coordinate the survey administration for students from the selected class(es)
- Coordinate the survey administration for parents of students from the selected class(es)
- Remind the selected class teachers who have not completed the survey to do this

More details about each step are provided below.

#### 2. Coordinate the class survey.

As part of the survey we will need to interview all students from the selected class(es) – apart from those in primary education.

In order to do this, we will provide you with a number of unique web links (one for each student) which allow accessing the survey questionnaire. These links will be sent to you by email.

The class survey will need to be administrated at the school premises, in a classroom which is equipped with sufficient computers to allow each student to fill out the questionnaire on a separate one. Each computer will need to be connected to the internet in order for the students to be able to fill out the questionnaire.

Your support will be needed for the following tasks:

- Obtaining parental approval for students under the age of X from the selected class(es). For this purpose we have drafted the *Parental approval form* a standard letter for each student's parents presenting information about the survey, and asking for parent's signed consent. This form can be found in the annex of this manual and will be available on the platform as well. You will need to:
  - Print the form in several copies (according to the number of students aged below X across the selected classes – one copy for each student)
  - Give each student from the selected class(es) a copy of the letter, asking them to bring it to their parents to complete and sign, and then bring it back to school
  - Collect the forms from the students, once these are completed and signed by the parents. You don't need to send these to us, but you will need to keep them at the school premises during a minimum period of 2 years.
  - o For students aged below X, only those who's parents have provided their approval can take part in the survey. For all others, there is no need to seek parental approval as children aged X and older can be interviewed in COUNTRY without parental consent.

#### - Organising the student survey:

For each selected class:

- o Informing the students that they will take part in a survey about the use of computers and the internet in learning activities
- Finding a time when the students can all be present in the computer classroom. We advise you to organise a unique student session per selected class in order to reduce the loss of instruction time. However, several student sessions might be necessary if the number of computers with internet access is lower than the number of students in the selected class.

You will be provided with an email containing a list of links and unique passwords towards the survey questionnaire for each selected class separately (a list with a unique password for each student). Before each class survey session, you will need to print out this list and then cut the page in pieces so that you can hand one link and unique password to each student. In order to be able to access the survey questionnaire, each student will need to type the unique link in their browser. Then they will need to select the country in which they live and after that they will need to provide their unique password (so that every student can fill in its own questionnaire).

If your schools is selected for more than one class, please make sure that you use the correct link and passwords for the class. They are different for each class in order to allow us to identify the class in which students are.

# Students are not allowed to complete the survey without your presence in the classroom.

In terms of timings, the student questionnaire will take about 15 minutes to complete.

### 3. Coordinate the parent survey.

As part of the study, we will also need to survey parents of students from the selected classes (including that of primary education, if selected). The parents will need to fill out an online 15-minute questionnaire. Please find below a brief description of the process, as well as of the tasks involved:

- You will receive an email with one or several booklets (according to the number of selected classes in your school) called *Parent survey invitation letters* containing as many pages as the total number of students across the selected classes (one booklet per selected class). Each page will include an invitation letter, containing information about the survey, and inviting the parents to complete it, as well as a link and a unique password towards the survey. Your tasks will be to:
  - Print out the entire document (one sided)

Hand out a page to each student from the selected class(es), asking them to bring it to their parents. The parents will be able to access and fill out the survey by typing in the link which is included in the Parent survey invitation letter, then selecting the country in which they live and providing their password. You can hand out the *Parent survey invitation letters* to the students at the same time as the *Parental approval form* (for those where this is needed).

If your schools is selected for more than one class, please make sure that you use the correct booklet per class for the parent surveys. They are different for each class and allow us to identify to which class the parents belong to.)

<u>Our objective is to interview at least one parent per selected class.</u> If no parents answer the survey after a given time, a new booklet with reminders to complete the *Parent survey* will be provided to you.

# 4. Remind class teachers who have not filled out the class teacher survey to do so.

As mentioned previously, when filling out this questionnaire, you will be asked to provide email addresses of the teachers who will be selected to take part in this survey. Once you do this, an email with the survey link will be automatically forwarded to them. If after three weeks they have still not completed the survey, we will automatically send them a reminder.

If after this reminder, some of the teachers have still not completed the survey, <u>we will request your support - to kindly remind them (by whichever means you chose to -e.g. verbally, by email, or by phone) to complete the survey.</u>

Thank you very much in advance for your support.

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

Best regards,

[DP - INSERT LOCAL NAME]

[DP - INSERT LOCAL INSTITUTION]

[DP - INSERT LOCAL INSTITUTION's ADDRESS (street)]

- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

## Annex 4 Parent approval form

2<sup>nd</sup> Survey of Schools – ICT in Education

#### PARENTAL PERMISSION LETTER

Dear parent or guardian,

I am writing to inform you that the school and class attended by your child have been selected to take part in a European survey on the use of computers the internet in education. The Head Teacher has provided his/her approval for the school to take part in the survey. As part of the study we would like to invite your child (along with the other children from his/her class) to complete a 15-minute questionnaire.

We would therefore like to kindly request your approval to interview your child as part of our survey.

The research is conducted by Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, on behalf of the European Commission. The questionnaire aims to gather information on children's use of technology for learning, and will be completed online, on the school premises. All information provided will remain strictly confidential, and will be used for research purposes only. Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

The answers will be used in order to provide schools, ministries of education and the European Commission with information to assist in providing high quality education for young people in the 21<sup>st</sup> century.

It would therefore be very important that your child takes part in our research. We would be grateful if you could please complete and sign this permission form, and hand it to your child so that he/she can bring it back to school.

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

Name	of school:
Name:	
Email:	
Teleph	one number

·					
PARENTAL CONSENT FORM					
Please tick one of the two boxes below, and fill in the requested information					
<ul> <li>I agree for my child to take part in the 2<sup>nd</sup> Survey of Schools – ICT in Education</li> <li>I don't agree for my child to take part in the 2<sup>nd</sup> Survey of Schools – ICT in Education</li> </ul>					
Name of child					
Name of parent.					

### Annex 5 Head teacher email

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, have been commissioned to carry out the second **Survey of Schools on ICT in education**. The survey is conducted on behalf of the Directorate-General for Communications Networks, Content & Technology ("DG CONNECT") of the European Commission, and aims, on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012.

Your school has been selected randomly from the list of all schools in your country. For the accurateness of the results, it is extremely important that your school takes part in the survey.

Through this letter we would like to kindly request the approval of the Head Teacher to conduct the survey in your school. <u>If you are not that person, may we please ask you to forward this email to the school's Head Teacher.</u>

As a first step, as School Head Teacher, we would like to kindly ask you to answer a short 5-minute questionnaire in order to register your school in the survey, by using the link below. The questionnaire will also include information about the survey as well as instructions on how it should be coordinated.

[insert link]

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

Please find below some details about the survey:

- Purpose of the study: The survey outcomes will be used in order to define the
  minimum conditions of an effective "highly equipped and connected classroom" in
  primary and secondary education, and to estimate how much it would cost to
  equip and connect primary and secondary classrooms in the countries where the
  survey will take place.
- 2. **Coverage**: the survey will be conducted in 30 countries (EU28, Turkey and Iceland).
- 3. **Target population**: we aim to interview 400 schools in each country (100 schools in each of the following levels: primary, lower secondary, upper secondary and upper secondary vocational). In each school, we will conduct interviews with **Head Teachers, Class Teachers** (between one and three teachers per school), **students** (all students from one randomly selected class per level in each school apart from primary level), and **parents** (whose children are attending the same grade as the randomly selected students will be invited for the survey).
- 4. **Methodology:** the survey will be conducted online, and questionnaire length will not go beyond 15 minutes.
- 5. **Confidentiality**: Please be assured that any information provided for this survey will be kept completely anonymous and treated in the strictest confidence. Information like names and addresses will not be retained, and it will not be

possible for any individual person to be identified from the survey findings as the information will be used by the researchers for statistical purposes only.

Your support in this matter is key to the success of this initiative which would result in an updated, comprehensive analysis of the conditions and barriers for the uptake of technologies to support learning. Your contribution will allow, on the one hand, European and national policy-makers to share practices and information on the adoption and use of ICT in schools, and, on the other hand, to understand new online phenomena that affect students such as fake news, filter bubbles or online risks.

Once the survey is complete, we commit to sharing with you the survey report, which will consist of a detailed analysis of the results, as well as findings with regards to your school (such as where it ranks compared to other schools in your country and in the EU, in terms of ICT adoption and use of online technologies).

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

#### Annex 6 Head teacher reminder

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

#### The European Commission needs your help

We have recently contacted you about the 2<sup>nd</sup> Survey of Schools: ICT in Education, conducted by Ipsos and Deloitte on behalf of the European Commission, and would like to remind you that it is extremely important for the accuracy of the results that your school takes part in our survey.

Through this letter we would like to kindly request the approval of the Head Teacher to conduct the survey in your school. If you are not that person, may we please ask you to forward this email to the school's Head Teacher.

As a first step, as School Head Teacher, we would like to kindly ask you to answer a short 5-minute questionnaire in order to register your school in the survey, by using the link below. The questionnaire will also include information about the survey as well as instructions on how it should be coordinated.

#### [insert link]

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, have been commissioned to carry out the second Survey of Schools on ICT in education. The survey is conducted on behalf of the Directorate-General for Communications Networks, Content & Technology ("DG CONNECT") of the European Commission, and aims, on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012.

# Your school has been selected randomly from the list of all schools in your country.

### **Details about the survey:**

- Purpose of the study: The survey outcomes will be used in order to define the
  minimum conditions of an effective "highly equipped and connected classroom" in
  primary and secondary education, and to estimate how much it would cost to
  equip and connect primary and secondary classrooms in the countries where the
  survey will take place.
- 2. **Coverage**: the survey will be conducted in 30 countries (EU28, Turkey and Iceland).
- 3. **Target population**: we aim to interview 400 schools in each country (100 schools in each of the following levels: primary, lower secondary, upper secondary and upper secondary vocational). In each school, we will conduct interviews with **Head Teachers, Class Teachers** (between one and three teachers per school), **students** (all students from one randomly selected class per level in each school apart from primary level), and **parents** (whose children are attending the same grade as the randomly selected students will be invited for the survey).

- 4. **Methodology:** the survey will be conducted online, and **questionnaire length** will not go beyond 15 minutes.
- 5. **Confidentiality**: Please be assured that **any information provided for this survey will be kept completely anonymous** and treated in the strictest confidence. Information like names and addresses will not be retained, and it will not be possible for any individual person to be identified from the survey findings as the information will be used by the researchers for statistical purposes only.

# Your contribution will allow European and national policy-makers to share practices and information on the adoption and use of ICT in schools.

Your support in this matter is key to the success of this initiative which would result in an updated, comprehensive analysis of the conditions and barriers for the uptake of technologies to support learning. Your contribution will allow, on the one hand, European and national policy-makers to share practices and information on the adoption and use of ICT in schools, and, on the other hand, to understand new online phenomena that affect students such as fake news, filter bubbles or online risks.

Once the survey is complete, we commit to sharing with you the survey report, which will consist of a detailed analysis of the results, as well as findings with regards to your school (such as where it ranks compared to other schools in your country and in the EU, in terms of ICT adoption and use of online technologies).

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

## Annex 7 Head teacher survey invite

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your willingness to take part in this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

As part of the survey we would like to invite you to please complete the questionnaire for school Head Teachers, by clicking on the link below.

#### [insert link]

The questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT infrastructure, and the use of ICT for educational purposes in your school. All information you provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

Best regards,

[DP - INSERT LOCAL NAME]

[DP - INSERT LOCAL INSTITUTION]

[DP - INSERT LOCAL INSTITUTION'S ADDRESS (street)]

[DP - INSERT LOCAL INSTITUTION's ADDRESS (commune)]

[DP - INSERT LOCAL INSTITUTION's ADDRESS (country)]

[DP - INSERT TELEPHONE LOCAL NAME]

[DP - INSERT EMAIL LOCAL NAME]

#### Annex 8 Head teacher survey reminder

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your willingness to take part in this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

As part of the survey we would like to remind you to please complete the questionnaire for school Head Teachers, by clicking on the link below.

#### [insert link]

The questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT infrastructure, and the use of ICT for educational purposes in your school. All information you provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

Best regards,

```
[DP - INSERT LOCAL NAME]
[DP - INSERT LOCAL INSTITUTION]
[DP - INSERT LOCAL INSTITUTION'S ADDRESS (street)]
[DP - INSERT LOCAL INSTITUTION'S ADDRESS (commune)]
[DP - INSERT LOCAL INSTITUTION'S ADDRESS (country)]
[DP - INSERT TELEPHONE LOCAL NAME]
[DP - INSERT EMAIL LOCAL NAME]
```

#### Annex 9 School coordinator invite

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

We are contacting you with regards to the  $2^{nd}$  Survey of Schools: ICT in Education, which is being carried out by Ipsos in collaboration with Deloitte, on behalf of the European Commission, and aims to collect information on the use of ICT in European schools.

The Head Teacher in your establishment has accepted the school's participation to the study, and has appointed you as survey coordinator. This means that we will require your help with the survey implementation in your school. More specifically, you will be asked to coordinate email addresses and survey links via an online platform which we have set up specifically for the survey.

We would like to thank you in advance for your support for conducting this important study, and remain at your disposal for any questions or help you may need throughout the survey process.

Please note that all information you provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

In order to access the survey platform, as well as the instructions manual, please click on the link below:

#### [insert link]

Please find below some more details with regards to our survey:

Please find below some details about the survey:

6. **Purpose of the study**: The survey aims on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to

identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012. The outcomes will be used in order to define the minimum conditions of an effective "highly equipped and connected classroom" in primary and secondary education, and to estimate how much it would cost to equip and connect primary and secondary classrooms in the countries where the survey will take place.

- 7. **Coverage**: the survey will be conducted in 30 countries (EU28, Turkey and Iceland).
- 1. Target population: we aim to interview 400 schools in each country (100 schools in each of the following levels: primary, lower secondary, upper secondary and upper secondary vocational). In each school, we will conduct interviews with Head Teachers, Class Teachers (between one and three teachers per school), students (all students from one randomly selected class per level in each school apart from primary level), and parents (whose children are attending the same grade as the randomly selected students will be invited for the survey).
- 2. **Methodology:** the survey will be conducted online, and questionnaire length will not go beyond 15 minutes.
- 3. **Confidentiality**: Please be assured that any information provided for this survey will be kept completely anonymous and treated in the strictest confidence. Information like names and addresses will not be retained, and it will not be possible for any individual person to be identified from the survey findings as the information will be used by the researchers for statistical purposes only.

Your support in this matter is key to the success of this initiative which would result in an updated, comprehensive analysis of the conditions and barriers for the uptake of technologies to support learning. Your contribution will allow, on the one hand, European and national policy-makers to share practices and information on the adoption and use of ICT in schools, and, on the other hand, to understand new online phenomena that affect students such as fake news, filter bubbles or online risks.

For any further information with regards to our survey, as well as support for the survey coordination task, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

#### Annex 10 School coordinator reminder

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

#### The European Commission needs your help

We are contacting you with regards to the 2<sup>nd</sup> Survey of Schools: ICT in Education, which is being carried out by Ipsos in collaboration with Deloitte, on behalf of the European Commission, and aims to collect information on the use of ICT in European schools.

We would like to remind you that the Head Teacher in your establishment has accepted the school's participation to the study, and has appointed you as survey coordinator. This means that we will require your help with the survey implementation in your school. More specifically, you will be asked to coordinate email addresses and survey links via an online platform which we have set up specifically for the survey.

# In order to access the survey platform, as well as the instructions manual, please click on the link below:

[insert link]

We would like to thank you in advance for your support for conducting this important study, and remain at your disposal for any questions or help you may need throughout the survey process.

Please note that all information you provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

#### **Details about the survey:**

- 8. **Purpose of the study**: The survey aims on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools ICT in Education, carried out in 2012. The outcomes will be used in order to define the minimum conditions of an effective "highly equipped and connected classroom" in primary and secondary education, and to estimate how much it would cost to equip and connect primary and secondary classrooms in the countries where the survey will take place.
- 9. **Coverage**: the survey will be conducted in 30 countries (EU28, Turkey and Iceland).
- Target population: we aim to interview 400 schools in each country (100 schools in each of the following levels: primary, lower secondary, upper secondary and upper secondary vocational). In each school, we will conduct interviews with Head Teachers, Class Teachers (between one and three teachers per school), students (all students from one randomly selected class per level in each school apart from primary level), and parents (whose children are attending the same grade as the randomly selected students will be invited for the survey).

- 2. **Methodology:** the survey will be conducted online, and **questionnaire length** will not go beyond 15 minutes.
- 3. Confidentiality: Please be assured that any information provided for this survey will be kept completely anonymous and treated in the strictest confidence. Information like names and addresses will not be retained, and it will not be possible for any individual person to be identified from the survey findings as the information will be used by the researchers for statistical purposes only.

# Your contribution will allow European and national policy-makers to share practices and information on the adoption and use of ICT in schools.

Your support in this matter is key to the success of this initiative which would result in an updated, comprehensive analysis of the conditions and barriers for the uptake of technologies to support learning. Your contribution will allow, on the one hand, European and national policy-makers to share practices and information on the adoption and use of ICT in schools, and, on the other hand, to understand new online phenomena that affect students such as fake news, filter bubbles or online risks.

For any further information with regards to our survey, as well as support for the survey coordination task, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

### Annex 11 Class teacher survey invitation

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, have been commissioned to carry out the second Survey of Schools on ICT in education. The survey is conducted on behalf of the Directorate-General for Communications Networks, Content & Technology ("DG CONNECT") of the European Commission, and aims, on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012.

Your school has been selected randomly from the list of all schools in your country, and the Head Teacher has provided his/her approval for conducting the survey. You have been randomly selected among teachers in your school to take part in our survey. Your email address has been provided to us by the survey coordinator in your school, and will only be used for the purpose of this survey.

As part of the survey we would like to invite you to please complete the questionnaire for class teachers, by clicking on the link below.

The questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT infrastructure, and teachers' experience and attitudes with regards to the use of ICT in learning activities. All information you provide is strictly confidential, and will be used for research purposes only.

#### [insert link]

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

## Annex 12 Class teacher survey reminder

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

#### The European Commission needs your help

We would like to remind you to please complete the questionnaire for class teachers, by clicking on the link below.

[insert link]

Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, have been commissioned to carry out the second Survey of Schools on ICT in education. The survey is conducted on behalf of the Directorate-General for Communications Networks, Content & Technology ("DG CONNECT") of the European Commission.

Your school has been selected randomly from the list of all schools in your country, and the Head Teacher has provided his/her approval for conducting the survey. You have been randomly selected among teachers in your school to take part in our survey. Your email address has been provided to us by the survey coordinator in your school, and will only be used for the purposes of this survey.

# Your contribution will allow European and national policy-makers to share practices and information on the adoption and use of ICT in schools.

The results of this survey aim, on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012.

The questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT infrastructure, and teachers' experience and attitudes with regards to the use of ICT in learning activities.

#### Your information will be treated as confidential

All information you provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY]

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

# Annex 13 School coordinator reminder for teachers

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your support in coordinating this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

We would like to inform you that some of the class teachers invited to take part in the survey have not yet completed the questionnaire. May we please ask you to log on to the platform to see which teachers have not completed the survey, and contact them directly in order to remind them to fill out the questionnaire.

#### [insert link to platform]

The class teacher questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT infrastructure, and teachers' experience and attitudes with regards to the use of ICT in learning activities. All information they provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

### Annex 14 School coordinator reminder for class

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your support in coordinating this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

We would like to remind you that one (or more) selected class(es) has/have not yet completed the survey. May we please ask you to log on to the platform and provide a new date for when the survey will be completed.

#### [insert link to platform]

The students' questionnaire should take no longer than 15 minutes to complete, and includes questions on ICT use for learning purposes. All information they provide is strictly confidential, and will be used for research purposes only.

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

# Annex 15 School coordinator letter for parents

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your support in coordinating this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

The attached document contains several letters, each containing a unique link to a survey which should be completed by students' parents.

May we please ask you to print these, and hand each of them to the students of the selected classes(s) in your school (one letter for each student) asking them to hand these to their parents so that they can complete the questionnaire.

For any further information with regards to our survey, as well as support for the survey coordination task, please don't hesitate to get in touch with us by either email or telephone.

Best regards,

[DP - INSERT LOCAL NAME]

[DP - INSERT LOCAL INSTITUTION]

[DP - INSERT LOCAL INSTITUTION'S ADDRESS (street)]

[DP - INSERT LOCAL INSTITUTION's ADDRESS (commune)]

[DP - INSERT LOCAL INSTITUTION'S ADDRESS (country)]

[DP - INSERT TELEPHONE LOCAL NAME]

[DP - INSERT EMAIL LOCAL NAME]

### Annex 16 School coordinator reminder for parents

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Thank you for your support in coordinating this important survey, conducted by Ipsos, in collaboration with Deloitte, on behalf of the European Commission.

We would like to inform you that no parents have taken part in the survey. May we please ask you to provide them with the attached reminder letters asking them to fill out the questionnaire.

For any further information with regards to our survey, as well as support for the survey coordination task, please don't hesitate to get in touch with us by either email or telephone.

#### Best regards,

- [DP INSERT LOCAL NAME]
- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

# Annex 17 Attachment school coordinator letter for parents

2<sup>nd</sup> Survey of Schools: ICT in Education

Dear Sir, Madam,

Ipsos, an independent market research company, in collaboration with Deloitte, the world's largest consultancy firm, have been commissioned to carry out the second Survey of Schools on ICT in education. The survey is conducted on behalf of the Directorate-General for Communications Networks, Content & Technology ("DG CONNECT") of the European Commission, and aims, on the one hand, to collect information with regards to the use of ICT in European schools, and, on the other hand, to identify recent progress in this area, by enabling comparisons with the outcomes of the first Survey of Schools - ICT in Education, carried out in 2012.

The school attended by your child has been selected randomly from the list of all schools in your country, and the Head Teacher has provided his/her approval for conducting the survey. You have been randomly selected among the parents to take part in this survey.

As part of the survey we would like to invite you to please complete the questionnaire for parents, by typing the link below in your web browser.

The questionnaire should take no longer than 15 minutes to complete, and includes questions on parents' experience and attitudes with regards to the use of ICT in learning activities. All information you provide is strictly confidential, and will be used for research purposes only.

#### [insert link]

Please note that all data collection procedures for this survey comply with the data protection law in [COUNTRY].

For any further information with regards to our survey, please don't hesitate to get in touch with us by either email or telephone.

- [DP INSERT LOCAL INSTITUTION]
- [DP INSERT LOCAL INSTITUTION'S ADDRESS (street)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (commune)]
- [DP INSERT LOCAL INSTITUTION's ADDRESS (country)]
- [DP INSERT TELEPHONE LOCAL NAME]
- [DP INSERT EMAIL LOCAL NAME]

Annex 18 School universe by country and ISCED level

		School universe as found in the sample frames			Adjusted school universe used for weighting purposes				
		ISCED1	ISCED2	ISCED3a	ISCED3b	ISCED1	ISCED2	ISCED3a	ISCED3b
Country_n	1.00 Austria	3345	1814	873	570	3345	1814	873	570
	2.00 Belgium	4457	1164	1142	46	4457	1164	1142	<b>571</b>
	3.00 Bulgaria	1763	1375	554	393	1763	1375	554	393
	4.00 Croatia	886	886	405		886	886	405	405
	5.00 Cyprus	331	65	38	15	331	65	38	15
	6.00 Czech Republic	4606	4606	1326	20	4606	4606	1326	<mark>663</mark>
	7.00 Denmark	336	2284	285	320	<mark>2620</mark>	2284	285	320
	8.00 Estonia	505	455	183	29	505	455	183	29
	9.00 Finland	2088	800	384	96	2088	800	384	96
	10.00 France	36028	8435	2836	2448	36028	8435	2836	2448
	11.00 Germany					14800	10484	3371	2692
	12.00 Greece	4513	1785	1066	489	4513	1785	1066	489
	13.00 Hungary	3535	6034	2372		3535	6034	2372	<b>2372</b>
	14.00 Iceland	148	138	29	25	148	138	29	25
	15.00 Ireland	3252	161	161		3252	161	161	
	16.00 Italy	17593	15011	7135	7135	17593	15011	7135	7135
	17.00 Latvia	200	200	200	214	200	200	200	214
	18.00 Lithuania	673	658	489	81	673	658	489	81
	19.00 Luxembourg	154	41	27	31	154	41	27	31

20.00 Malta	103	55	47		103	55	47	
21.00 Norway	2746	461	126	49	2746	461	126	49
22.00 Netherlands	9429	2695	2695	599	9429	2695	2695	599
23.00 Poland	13501	7827	4416	4000	13501	7827	4416	4000
24.00 Portugal	4320	1328	635	243	4320	1328	635	243
25.00 Romania	4528	4621	1569	956	4528	4621	1569	956
26.00 Slovakia	2180	2180	732	16	2180	2180	732	<mark>366</mark>
27.00 Slovenia	449	448	78	106	449	448	78	106
28.00 Spain	13677	6483	3239		13677	6483	3239	<b>1620</b>
29.00 Sweden	3682	3691	1092	243	3682	3691	1092	243
30.00 Turkey	23189	15824	5218	2826	23189	15824	5218	2826
31.00 UK	18129	3527	3334		18129	3527	3334	

# Annex 19 Screenshot of the survey platform

Info provided for school Colégio de Albergaria

Date: 13/03/2018 17:48:54

#### Overall info

		Selected to take part in the survey	Survey invite opened, but survey not completed	Survey completed
Head Teacher		1	0	0
Students				
Upper secondary school (academic)	test1	12	0	0
Upper secondary school (vocational)	test2	23	0	0
Parents				
Upper secondary school (academic)	test1	12	0	0
Upper secondary school (vocational)	test2	23	0	0

### Teacher Information

TeacherEmail	StatusInfo
Daniel.Dimitov@ipsos.com	Survey invite send
Daniel.Dimitrov@ipsos.com	Survey invite send
Daniel.Dimitrov@ipsos.com	Survey invite send
Daniel.Dimitrov@ipsos.com	Survey invite send
Daniel.Dimitrov@ipsos.com	Survey invite send

# **European Commission**

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