

## Annex E. Characteristics of national samples ISCED levels 1, 2 and 3

Updated 29/04/20: South Africa ISCED 2

Updated 28/11/19: United States ISCED 2

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The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

## Characteristics of national samples ISCED level 1

### Australia

ISCED Level 1 education in Australia includes grades preparatory/reception/foundation to 6. In some schools (about 60% of schools in South Australia and a few elsewhere), primary school extends to year 7. These schools were classified as ISCED 1 in the school sampling frame.

Coverage and Exclusions		ISCED level 1 schools	ISCED level 1 teachers
Target population		7 733	140 827
Exclusions:	Small schools	1 106	2 289
	Schools that are geographically remote	77	533
	Schools that are both small and geographically remote	40	119
Total exclusions		1 223	2 941
Survey population		6 510	137 886
Coverage after exclusions (%)		84.18	97.91

### Sample Design

<b>Sample allocation:</b>	Proportional to the number of teachers, followed by setting of requested sample sizes to achieve oversampling for states of Victoria, New South Wales and Queensland.
<b>Sample sizes:</b>	Thirty schools for the field trial; 299 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to number of teachers, with overlap control used for the ISCED level 2 sample and the TALIS-PISA link field trial sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools already sampled in the ISCED level 2 and the TALIS-PISA link samples.
<b>Measure of size:</b>	Number of ISCED level 1 teachers in schools.
<b>Explicit stratification:</b>	Organised by state with eight levels (Australian Capital Territory, New South Wales, Northern Territories, Queensland, South Australia, Tasmania, Victoria, Western Australia) and by sector (Catholic, government, independent) in the larger states.
<b>Implicit stratification:</b>	Organised by school geographical location with four levels (metropolitan zone, provincial zone, remote zone, not available) and Socio-Economic Indexes for Areas (SEIFA) within each state with five levels (1–2, 3–4, 5–6, 7–8, 9–10).

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	-----Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Australian Capital Territory, all types	6	0	3	0	1	2
New South Wales, Catholic	11	0	5	2	0	4

<b>School Participation Status</b>						
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>-----Participating Schools -----</b>			<b>Non-participating schools</b>
			<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	
New South Wales, government	83	0	37	17	5	24
New South Wales, independent	7	0	4	2	0	1
Northern Territories, all types	7	0	4	0	1	2
Queensland, Catholic	7	0	2	4	0	1
Queensland, government	30	0	18	8	0	4
Queensland, independent	5	0	2	0	0	3
South Australia, Catholic	2	0	1	0	1	0
South Australia, government	10	0	10	0	0	0
South Australia, independent	3	0	2	0	1	0
Tasmania, Catholic	2	0	0	1	0	1
Tasmania, government	3	0	2	0	1	0
Tasmania, independent	2	0	1	0	1	0
Victoria, Catholic	22	0	7	4	0	11
Victoria, government	66	0	24	13	3	26
Victoria, independent	12	0	5	2	2	3
Western Australia, Catholic	3	0	1	1	0	1
Western Australia, government	15	0	8	4	1	2
Western Australia, independent	3	0	2	0	0	1
<b>Total</b>	<b>299</b>	<b>0</b>	<b>138</b>	<b>58</b>	<b>17</b>	<b>86</b>

#### **Data Sources**

The school sampling frame was developed by the Australian Council for Educational Research (ACER). State and educational departments were also consulted to refine the accuracy of the list of schools as of school year 2015.

## Flemish Community (Belgium)

ISCED level 1 education in Belgium (Flanders) consists of primary education, which encompasses grades 1 to 6.

Coverage and Exclusions		ISCED level 1 schools	ISCED level 1 students
Target population		2 238	422 910
Exclusions:	Fewer than 20 students at ISCED level 1	5	53
Total exclusions		5	53
Survey population		2 233	422 857
Coverage after exclusions (%)		99.78	99.99

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Count of ISCED level 1 students in schools.
<b>Explicit stratification:</b>	Organised by educational networks. The Flemish Community of Belgium has three educational networks: privately managed schools, schools managed by municipalities/provinces, and community-education publicly managed schools, giving a total of three explicit strata.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Privately managed	124	0	79	21	9	15
Publicly managed (municipalities/provinces)	46	0	31	9	1	5
Publicly managed (community education)	30	0	24	3	0	3
National stratum	1	0	1	0	0	0
<b>Total</b>	<b>201</b>	<b>0</b>	<b>135</b>	<b>33</b>	<b>10</b>	<b>23</b>

## Data Source

Data used for the school sampling frame came from the Flemish Ministry for Education and Training's administrative database, with students officially counted as of 1 February 2016.

## CABA – Ciudad Autónoma de Buenos Aires (Argentina)

ISCED level 1 education in the city of Buenos Aires consists of grades 1 to 6. These grades, along with grade 7, constitute Buenos Aires' primary level of education.

Coverage and Exclusions		
	ISCED level 1 schools	ISCED level 1 students
Target population	878	243 034
Total exclusions	0	0
Survey population	878	243 034
Coverage after exclusions (%)	100	100

### Sample Design

**Sample allocation:** Systematic sample proportional to school size. Due to a lack of schools at ISCED levels 1 and 2, nine common schools (three from one stratum and six from another stratum) were sampled for both of the ISCED levels 1 and 2 field trials. Eighty common schools (4, 50 and 26 schools from the different strata) were sampled for the ISCED levels 1 and 2 main survey. Two different sets of 20 teachers were sampled for these ISCED levels.

**Sample sizes:** Thirty schools for the field trial; 200 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size, with the ISCED level 2 and ISCED level 1 samples selected together. The same schools were selected for both ISCED level 2 and ISCED level 1 whenever samples were selected from schools offering both ISCED levels 1 and 2 education. The 80 schools for the main survey and the nine schools for the field trial were selected in the same way. One set of 20 ISCED level 1 teachers and one set of 20 ISCED level 2 teachers were chosen from these same schools.

**Measure of size:** Number of ISCED level 2 students in schools. Because simple random sampling was done, measure of size was not used.

**Explicit stratification:** Organised by sector with two levels and by socio-economic status (SES) with three levels. However, some strata were collapsed as needed so as to have a sufficient number of schools in each stratum. Because sampling for ISCED levels 2 and 1 was executed at the same time, strata contain, as the first stratification variable, ISCED level 2 only and ISCED levels 1 and 2 for ISCED level 2, and ISCED level 1 only and ISCED levels 1 and 2 for ISCED level 1. At the second level, school sector (private and public) was used. For the last level, SES 2 and 3 were collapsed together for ISCED level 1 only with sector 1, while SES 1 and 2 were collapsed for ISCED level 1 only with sector 2. SES 1, 2 and 3 were collapsed for ISCED levels 1 and 2 with sector 1, while SES 1 and 2 were collapsed for ISCED levels 1 and 2 with sector 2.

**Implicit stratification:** Not used.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 1 only, private, SES 1	40	0	26	0	0	14
ISCED level 1 only, private, SES 2 and 3	40	0	28	0	0	12

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 1 only, public, SES 1 and 2	20	0	18	0	0	2
ISCED level 1 only, public, SES 3	20	0	15	1	0	4
ISCED level 1 and ISCED level 2, private, all SES levels	4	0	2	1	0	1
ISCED level 1 and ISCED level 2, public, SES 1 and 2	50	0	48	2	0	0
ISCED level 1 and ISCED level 2, public, SES 3	26	0	25	1	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>162</b>	<b>5</b>	<b>0</b>	<b>33</b>

#### **Data Sources**

Data were obtained from the National Educational Annual Survey 2016 and the Buenos Aires Students Assessments 2015.

## Denmark

ISCED level 1 education in Denmark covers grades 0 to 6 (mandatory schooling).

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 students
Target population		1 751	463 309
Exclusions:	Small schools (fewer than 40 students and generally fewer than five teachers)	57	1 084
Total exclusions		57	1 084
Survey population		1 694	462 225
Coverage after exclusions (%)		96.74	99.77

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The ISCED levels 2 and 1 samples were selected together.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by ISCED level (ISCED level 2 only, ISCED levels 1 and 2).
<b>Implicit stratification:</b>	Organised by school type with three levels (public, private, other) and by region with five levels (1081 Nordjylland, 1082 Midtjylland, 1083 Syddanmark, 1084 Hovedstaden, 1085 Sjælland).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 1 only	32	0	11	7	3	11
ISCED levels 1 and 2	168	2	105	22	6	33
<b>Total</b>	<b>200</b>	<b>2</b>	<b>116</b>	<b>29</b>	<b>9</b>	<b>44</b>

## Data Sources

Information on the number of schools was taken from the sampling frame. The information on number of teachers came from Statistikbanken (Statistics Denmark).

## England (United Kingdom)

ISCED level 1 education in England corresponds to years 1 to 6. Students are generally taught in primary schools that solely cover ISCED level 1.

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 students
Target population		18 445	3 914 720
Exclusions:	International schools	17	4 394
	Very small schools	258	5 719
	Schools proposed for closure	26	2 915
Total exclusions		301	13 028
Survey population		18 144	3 901 692
Coverage after exclusions (%)		98.37	99.67

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED 1 students, then adjusted so that a minimum of eight schools was selected in the smaller strata.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED level 2 were selected first, after which overlap control samples were used to select the samples for ISCED level 1. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED level 2.
<b>Measure of size:</b>	Number of ISCED level 1 students in schools.
<b>Explicit stratification:</b>	Organised by school funding (state funded, privately funded) and size of school (small, not small). Region (with four levels) was used as an additional explicit stratum for “private, not small” and “state, not small” schools. For strata that had only a few schools, levels were collapsed appropriately and by request from the English TALIS 2018 team.
<b>Implicit stratification:</b>	The implicit stratum used for the “private, small” explicit stratum was region with four levels (London, Midlands, North, South). Implicit stratification was not used for the “state, small” and “private, not small” explicit strata but was organised by Free School Meal band (low, middle, high) for the “state, not small” explicit stratum, which was then ordered by measure of size.

School Participation Status						
		----- Participating Schools -----				
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
01. Private, small, all regions	8	2	1	1	0	4
02. Private, not small, North	8	1	3	1	0	3
03. Private, not small, Midlands	8	0	2	0	1	5
04. Private, not small, London	8	1	1	2	1	3



<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
05. Private, not small, South	8	0	5	1	0	2
06. State, small, all regions	8	0	2	1	1	4
07. State, not small, North	44	2	28	9	0	5
08. State, not small, Midlands	28	0	21	3	0	4
09. State, not small, London	24	0	19	1	0	4
10. State, not small, South	56	4	44	3	1	4
<b>Total</b>	<b>200</b>	<b>10</b>	<b>126</b>	<b>22</b>	<b>4</b>	<b>38</b>

### **Data Sources**

Lists of open schools were sourced from the Department for Education register of educational establishments (edubase): <http://www.education.gov.uk/edubase/home.xhtml>

Data were not available for number of ISCED level 2 teachers. Data on the total number of teachers in state schools, however, were sourced from <https://www.gov.uk/government/statistics/school-workforce-in-england-november-2015>, while total number of teachers in private schools came from unpublished data provided by the Department for Education. Data on student numbers came from <https://www.gov.uk/government/statistics/schools-pupils-and-their-characteristics-january-2016>

## France

ISCED level 1 education in France includes five grades (CP, CE1, CE2, CM1 and CM2). ISCED level 1 corresponds to elementary school, which constitutes the second part of primary school in France. Primary teachers are qualified to teach all the subjects taught in French elementary schools.

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 students
Target population		33 929	4 149 882
Exclusions:	Schools located in overseas French territories (Territoire outre-mer)	105	16 894
	Schools located in La Réunion and Mayotte (Southern Hemisphere calendar)	473	109 448
	Private schools under different administration	425	17 101
Total exclusions		1 003	143 443
Survey population		32 926	4 006 439
Coverage after exclusions (%)		97.04	96.54

## Sample Design

<b>Sample allocation:</b>	Number of ISCED level 1 students in schools.
<b>Sample sizes:</b>	Thirty schools for the first field trial; 200 schools for the main survey. To avoid overlap between the first field trial schools and the main survey schools, an extra 20 schools were sampled for the second field trial.
<b>Method of sample selection:</b>	Systematic proportional to sample size. The extra 20 schools for the field trial were taken from the sampling frame that excluded the ISCED level 1 field trial and main survey samples and replacements.
<b>Measure of size:</b>	Count of ISCED level 1 students.
<b>Explicit stratification:</b>	Organised by school type with three levels (public school non-priority education, public school priority education, private school) and by extent of urbanisation with three levels (fewer than 10 000 inhabitants, 10 000 to 200 000 inhabitants, more than 200 000 inhabitants).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public school non-priority education, fewer than 10 000 inhabitants	61	2	54	0	0	5
Public school non-priority education, 10 000 to 200 000 inhabitants	31	0	28	1	0	2

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Public school non-priority education, more than 200 000 inhabitants	48	2	43	0	0	3
Public school priority education, fewer than 10 000 inhabitants	2	0	1	0	0	1
Public school priority education, 10 000 to 200 000 inhabitants	10	0	8	0	0	2
Public school priority education, more than 200 000 inhabitants	19	1	15	1	0	2
Private school, fewer than 10 000 inhabitants	10	0	8	2	0	0
Private school, 10 000 to 200 000 inhabitants	9	0	8	0	0	1
Private school, fewer than 200 000 inhabitants	10	0	9	0	0	1
<b>Total</b>	<b>200</b>	<b>5</b>	<b>174</b>	<b>4</b>	<b>0</b>	<b>17</b>

#### **Data Sources**

Data on public and private schools came from BCE (database on all schools in France). Data on the number of students were obtained from BCP (*base centrale de pilotage*). The variable indicating number of students is called TALIS\_STU.

## Japan

ISCED level 1 education in Japan consists of grades 1 to 6 that together comprise elementary school. Elementary school provides six years of primary education, which is the first stage of compulsory education.

Coverage and Exclusions		ISCED level 1 schools	ISCED level 1 teachers
Target population		20 333	385 923
Total exclusions		0	0
Survey population		20 333	385 923
Coverage after exclusions (%)		100	100

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 1 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic proportional to size.
<b>Measure of size:</b>	Count of ISCED level 1 teachers in schools.
<b>Explicit stratification:</b>	Encompassed five strata, the first four of which centred on school type and school location: public, very large city; public, large city; public, small city; public, non-city area. The fifth school type, private or national schools, had a very small population and was therefore not divided into the four school locations.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Very large city	48	1	46	1	0	0
Large city	28	0	27	1	0	0
Small city	102	0	98	3	0	1
Non-city area	22	1	21	0	0	0
<b>Total</b>	<b>200</b>	<b>2</b>	<b>192</b>	<b>5</b>	<b>0</b>	<b>1</b>

## Data Source

Data were obtained from the Basic School Survey (*Gakkou Kihon Tyousa*) conducted by the Ministry of Education, Culture, Sports, Science and Technology. Survey data pertain to school year 2015/16. The survey findings were officially announced on 25 December 2015.

## Korea

ISCED Level 1 education Korea encompasses grades 1 to 6.

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 teachers
Target population		6 242	118 417
Exclusions:	Schools with fewer than three ISCED level 1 teachers	120	237
	Schools that are geographically remote	303	1 809
	Schools with fewer than three ISCED level 1 teachers and that are also located in geographically remote areas	208	305
Total exclusions		631	2 351
Survey population		5 611	116 066
Coverage after exclusions (%)		89.89	98.01

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 1 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED levels 2 and 1 were taken together.
<b>Measure of size:</b>	Count of ISCED level 1 teachers.
<b>Explicit stratification:</b>	Organised by geographical region, with 17 levels (i.e., provinces).
<b>Implicit stratification:</b>	Organised by level of urbanisation (metropolitan city, small and medium city, town).

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
ISCED level 1, 01.강원	5	0	4	1	0	0
ISCED level 1, 02.경기	47	0	41	3	0	3
ISCED level 1, 03.경남	15	0	15	0	0	0
ISCED level 1, 04.경북	10	0	8	0	0	2
ISCED level 1, 05.광주	7	0	6	0	0	1
ISCED level 1, 06.대구	10	0	8	0	0	2
ISCED level 1, 07.대전	7	0	7	0	0	0
ISCED level 1, 08.부산	11	0	8	1	0	2

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			
			Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 1, 09.서울	33	0	27	2	0	4
ISCED level 1, 10.세종	4	0	4	0	0	0
ISCED level 1, 11.울산	5	0	5	0	0	0
ISCED level 1, 12.인천	11	0	11	0	0	0
ISCED level 1, 13.전남	7	0	5	0	0	2
ISCED level 1, 14.전북	8	0	5	1	0	2
ISCED level 1, 15.제주	4	0	4	0	0	0
ISCED level 1, 16.충남	9	0	8	1	0	0
ISCED level 1, 17.충북	7	0	6	1	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>172</b>	<b>10</b>	<b>0</b>	<b>18</b>

#### Data Source

The school sampling frame was developed using data from the statistical database managed by the Korean Educational Development Institute. Data pertain to school year 2011/12.

## Netherlands

ISCED level 1 education in the Netherlands includes grades 3 through 8 (primary schools).

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 teachers
Target population		6 429	111 157
Exclusions:	Fewer than five teachers	95	339
	Schools on wheels/boat schools	2	49
Total exclusions		97	388
Survey population		6 332	110 769
Coverage after exclusions (%)		98.49	99.65

## Sample Design

<b>Sample allocation:</b>	Not applicable.
<b>Sample sizes:</b>	Fifteen schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. Requests were made for the replacement schools to be from school boards that differed from those for the originally sampled schools, thereby allowing the order of schools to be randomised through the use of random numbers.
<b>Measure of size:</b>	Number of ISCED level 1 teachers.
<b>Explicit stratification:</b>	Not used.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
All	200	6	76	37	17	64
National schools	47	0	47	0	0	0
<b>Total</b>	<b>251</b>	<b>6</b>	<b>123</b>	<b>37</b>	<b>17</b>	<b>68</b>

## Data Source

The information used to create the school sampling frame came from the Dutch Ministry of Education, Culture and Science: [https://duo.nl/open\\_onderwijsdata/](https://duo.nl/open_onderwijsdata/)

## Spain

In Spain, the education system is the responsibility of each individual autonomous community. There are 18 of these communities. ISCED level 2 education consists of four grades, from first compulsory secondary to fourth compulsory secondary. Compulsory secondary education caters to students 12 to 16 years of age.

Coverage and Exclusions		ISCED level 1 schools	ISCED level 1 teachers
Target population		13 603	287 262
Exclusions:	Small schools	328	800
Total exclusions		328	800
Survey population		13 275	286 462
Coverage after exclusions (%)		97.59	99.72

## Sample Design

**Sample allocation:** Proportional to the number of ISCED level 2 teachers, then adjusted to produce a sample of 50 schools from Madrid, Catalonia, La Rioja, Castile and León and Valencia for the main survey. Remaining schools were selected from other regions.

**Sample sizes:** Four hundred and three schools were selected for the main survey by oversampling Cantabria, Castile and León, Catalonia, Valencia, La Rioja and Madrid. Thirty schools were selected for the field trial from selected regions (Gran Canaria, Tenerife, Castile and León, and Extremadura), but the frame used for this process excluded the following: the ISCED level 2 (where there were schools offering both ISCED levels 1 and 2 education) field trial and main survey samples and corresponding replacements; the TALIS Video Survey samples and corresponding replacements; and the ISCED level 1 main survey samples and corresponding replacements.

**Method of sample selection:** Systematic sample proportional to school size for the ISCED level 2 data collection and the TALIS Video Survey. All selected schools for the data collection and the TALIS Video Survey were then removed from the sampling frame used for the ISCED level 1 field trial. The field trial samples were taken from Extremadura, Castile and León and the Canary Islands.

**Measure of size:** Number of ISCED level 2 teachers.

**Explicit stratification:** Organised by autonomous community with 18 levels (see table).

**Implicit stratification:** Organised by school type with two levels (public, private).

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Andalusia, all	28	0	28	0	0	0
Aragón, all	8	0	8	0	0	0
Asturias, all	45	0	45	0	0	0
Balearic Islands, all	4	0	4	0	0	0
Basque Country, all	8	0	8	0	0	0
Canary Islands, all	8	0	8	0	0	0



<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Cantabria, ISCED levels 1 and 2	4	0	4	0	0	0
Cantabria, ISCED level 1 only	46	0	46	0	0	0
Castile and León, all	50	0	50	0	0	0
Castile-La Mancha, all	10	0	10	0	0	0
Catalonia, all	50	0	50	0	0	0
Ceuta and Melilla, all	5	0	5	0	0	0
Community of Valencia, all	50	0	50	0	0	0
Extremadura, all	6	0	6	0	0	0
Galicia, all	10	0	10	0	0	0
La Rioja, ISCED levels 1 and 2	4	0	4	0	0	0
La Rioja, ISCED level 1 only	46	0	46	0	0	0
Madrid, all	50	0	47	1	0	2
Murcia, all	8	0	8	0	0	0
Navarre, all	4	0	4	0	0	0
<b>Total</b>	<b>444</b>	<b>0</b>	<b>441</b>	<b>1</b>	<b>0</b>	<b>2</b>

#### **Data Source**

Data came from information provided by the Autonomous Community for school year 2015/16.

## Sweden

ISCED level 1 education in Sweden covers grades 1 to 6 and is part of Sweden's nine years of compulsory schooling, which students begin at age seven.

Coverage and exclusions		ISCED level 1 schools	ISCED level 1 students
Target population		4 339	667 343
Exclusions:	Small schools (fewer than six students in the relevant grades at ISCED level 1).	67	160
	International schools not following the Swedish curriculum.	11	
Total exclusions		78	160
Survey population		4 261	667 183
Coverage after exclusions (%)		98.2	99.98

Note: Because the number of ISCED level 1 students in the excluded international schools was not available, this information could not be included in the total target population.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 1 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED levels 1 and 2 were selected together.
<b>Measure of size:</b>	Number of ISCED level 1 students in schools.
<b>Explicit stratification:</b>	The first explicit stratification variable was organised by ISCED level with three levels (ISCED level 1 only, ISCED level 2 only, ISCED levels 1 and 2). The second explicit stratification variable was organised by type of funding with two levels (private, public).
<b>Implicit stratification:</b>	Organised by region with four levels (metropolitan city, large city, manufacturing city, other city). For type of funding of private schools, two regional levels (manufacturing city, other city) were collapsed into one.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 1 only, private	10	0	8	1	0	1
ISCED level 1 only, public	130	8	114	4	0	4
ISCED levels 1 and 2, private	20	0	14	0	0	6
ISCED levels 1 and 2, public	40	2	35	2	0	1
<b>Total</b>	<b>200</b>	<b>10</b>	<b>171</b>	<b>7</b>	<b>0</b>	<b>12</b>

## Data Source

Data used were national statistics provided by the Swedish National Agency of Education. The agency publishes the statistics for each school year during spring. The statistics used for the sampling frame were those for school year 2015/16.

## Chinese Taipei

ISCED level 1 in Chinese Taipei includes the six grades that form elementary school.

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 teachers
Target population		2 656	93 713
Exclusions:	Schools with fewer than three teachers	1	3
Total exclusions		1	3
Survey population		2 655	93 710
Coverage after exclusions (%)		99.96	100

## Sample Design

<b>Sample allocation:</b>	Proportional to the square-root of the number of ISCED level 1 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 201 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to square-root of school size. The samples for ISCED levels 2 and 3 were selected first, after which overlap control was used to select the sample for ISCED level 1. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED levels 2 and 3.
<b>Measure of size:</b>	Square-root of number of ISCED level 1 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type (public, private) and urbanisation (city, town, village).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public school, city	65	0	65	0	0	0
Public school, town	71	0	71	0	0	0
Public school, village	58	1	57	0	0	0
Private school, city	3	0	3	0	0	0
Private school, town	2	0	1	1	0	0
Private school, village	2	0	2	0	0	0
<b>Total</b>	<b>201</b>	<b>1</b>	<b>199</b>	<b>1</b>	<b>0</b>	<b>0</b>

## Data Source

Data were sourced from the Department of Statistics of the Ministry of Education.

## Turkey

ISCED level 1, consisting of grades 1, 2, 3 and 4.

Coverage and exclusions			
		ISCED level 1 schools	ISCED level 1 teachers
Target population		24 755	289 681
Total exclusions		0	0
Survey population		24 755	289 681
Coverage after exclusions (%)		100	100

## Sample design

**Sample allocation:** Proportional to the number of ISCED level 1 teachers.

**Sample sizes:** Thirty schools for the field trial; 200 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size.

**Measure of size:** Number of ISCED level 1 teachers in schools.

**Explicit stratification:** Organised by school type with two levels (state, private). Turkey's Nomenclature of Territorial Units for Statistics 1 (TR NUTS 1) was then used to stratify the state schools into 12 regions (see table). Private schools were not divided into regions.

**Implicit stratification:** Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
State, İstanbul	24	0	24	0	0	0
State, Western Marmara	8	1	7	0	0	0
State, Ege	24	2	22	0	0	0
State, Eastern Marmara	16	1	15	0	0	0
State, Western Anatolia	20	3	17	0	0	0
State, Akdeniz	28	3	25	0	0	0
State, Middle Anatolia	8	2	6	0	0	0
State, Western Black Sea	12	2	10	0	0	0
State, Eastern Black Sea	8	0	8	0	0	0
State, North-East Anatolia	8	4	4	0	0	0
State, Middle-Eastern Anatolia	12	3	9	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
State, South-Eastern Anatolia	24	6	17	0	0	1
Private, no region	8	0	8	0	0	0
<b>Total</b>	<b>200</b>	<b>27</b>	<b>172</b>	<b>0</b>	<b>0</b>	<b>1</b>

#### **Data Source**

Data were provided by the Ministry of National Education.

## United Arab Emirates

ISCED level 1 education in the United Arab Emirates (UAE) is made up of primary schools (grades 1 to 5, which cater to students 6 to 11 years of age).

Coverage and exclusions		ISCED level 1 schools	ISCED level 1 teachers
Target population		602	22 074
Exclusions:	Private schools	14	428
Total exclusions		14	428
Survey population		588	21 646
Coverage after exclusions (%)		97.67	98.06

Note: Of these 588 schools, 174 were from Dubai, 291 from Abu Dhabi and 123 from the rest of the UAE.

## Sample Design

**Sample allocation:** Census, therefore not applicable.

**Sample sizes:** Thirty-six schools (12 from each region, that is, Dubai, Abu Dhabi, and the rest of the UAE) were selected for the field trial; 291 schools from Abu Dhabi, 174 from Dubai and 123 from the rest of the UAE were selected for the main survey. Note that although the largest 12 schools from each region were selected for both the field trial and the main survey, the groups of teachers selected for the field trial and the main survey differed.

**Method of sample selection:** Census.

**Measure of size:** Number of ISCED level 2 level teachers provided in the sampling frame.

**Explicit stratification:** Organised by region (Dubai, Abu Dhabi, rest of the UAE) and ISCED level (ISCED level 1 only, ISCED levels 1 and 2, ISCED levels 1 and 3, ISCED levels 1, 2 and 3).

**Implicit stratification:** Not applicable.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Abu Dhabi, ISCED level 1 only	86	4	82	0	0	0
Abu Dhabi, ISCED levels 1 and 2	50	2	48	0	0	0
Abu Dhabi, ISCED levels 1 and 3 and 1, 2 and 3	155	4	150	0	0	1
Dubai, ISCED level 1 only	42	3	39	0	0	0
Dubai, ISCED levels 1 and 2	44	2	42	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Dubai, ISCED levels 1 and 3	2	0	2	0	0	0
Dubai, ISCED levels 1, 2 and 3	86	1	85	0	0	0
Other UAE, ISCED level 1 only	85	14	70	0	0	1
Other UAE, ISCED levels 1 and 2	15	0	15	0	0	0
Other UAE, ISCED levels 1 and 3 and 1, 2 and 3	23	4	19	0	0	0
<b>Total</b>	<b>588</b>	<b>34</b>	<b>552</b>	<b>0</b>	<b>0</b>	<b>2</b>

#### **Data Sources**

Data were obtained from the school information system and private-school register.

## Viet Nam

ISCED Level 1 education in Viet Nam comprises elementary school (grades 1 to 5).

Coverage and Exclusions			
		ISCED level 1 schools	ISCED level 1 teachers
Target population		15 169	395 620
Exclusions:	Non-Vietnamese international schools	26	685
Total exclusions		26	685
Survey population		15 143	394 935
Coverage after exclusions (%)		99.83	99.83

## Sample Design

**Sample allocation:** Proportional to the number of ISCED level 1 teachers.

**Sample sizes:** Thirty schools for the field trial; 200 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size. The samples for ISCED levels 2 and 3 were selected first, after which overlap control samples were used to select the ISCED level 1 sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED levels 2 and 3.

**Measure of size:** Number of ISCED level 1 teachers in schools.

**Explicit stratification:** Organised by zone with three levels (central, northern, southern), region with six levels (see table) and type of funding with two levels (public, private). Note that sampling for ISCED levels 2 and 3 were carried out together, which means that the strata for ISCED level 2 include ISCED level 2 only and ISCED levels 2 and 3, while the strata for ISCED level 3 include ISCED level 3 only and ISCED levels 3 and 2.

**Implicit stratification:** Organised by location with three levels (urban, rural, remote)

## School Participation Status

Explicit strata	----- Participating Schools -----					
	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Central, north-central and central coastal areas, public	32	0	32	0	0	0
Central, north-central and central coastal areas, private	4	1	3	0	0	0
Central, northern midlands and mountain areas, all	16	0	16	0	0	0
Central, south-east, all	4	0	4	0	0	0
Northern, central highlands, public	32	0	32	0	0	0



<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Northern, central highlands, private	5	3	2	0	0	0
Northern, Mekong River Delta, public	28	0	28	0	0	0
Northern: Mekong River Delta, private	4	1	3	0	0	0
Northern: south-east, public	4	0	4	0	0	0
Southern: north central and central coastal areas, all	4	0	4	0	0	0
Southern: northern midlands and mountain areas, all	4	0	4	0	0	0
Southern: Red River Delta, public	24	1	23	0	0	0
Southern: Red River Delta, private	4	1	3	0	0	0
Southern: south-east, public	32	0	32	0	0	0
Southern: south-east, private	4	0	4	0	0	0
<b>Total</b>	<b>201</b>	<b>7</b>	<b>194</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were obtained from the General Statistics Office of Viet Nam.

## Characteristics of national samples ISCED level 2

### Alberta (Canada)

ISCED level 2 education in Alberta, Canada corresponds to grades 7 to 9.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		1 158	140 310
Exclusions:	Band-operated schools. These schools operate on First Nations' reserves and are the responsibility of the federal government rather than of Alberta Education	39	1 802
	Very small schools (fewer than three students in grades 7 to 9)	100	211
Survey population		1 019	138 297
Coverage after exclusions (%)		88	98.57

### Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students, then adjusted to have a census for Francophone schools.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 for the main survey.
<b>Method of sample selection:</b>	A systematic random sample was used for Francophone and charter schools. A systematic sample proportional to school size was used for public, separate and private schools. The same 21 schools were sampled for ISCED level 2 and ICILS for the "ISCED level 2 and ICILS Francophone" stratum. The same five schools were sampled for ISCED level 2 and ISCED level 3 for the "ISCED level 2 and ISCED level 3 Francophone" stratum.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by type of school with two levels (ISCED level 2 only, ISCED level 2 and ICILS), and type of school authority (public, separate, Francophone, charter, private).
<b>Implicit stratification:</b>	Organised by student performance with four levels: 1. low: mean - 1 standard deviation; 2. medium: mean - 1 standard deviation to mean + 1 standard deviation; 3. high: mean + 1 standard deviation; 4. no score. There were no implicit strata for the Francophone and charter explicit strata levels, which were collapsed together. Student performance in ISCED level 2 and in ICILS was calculated using the unweighted average of school performance results on Provincial Achievement Tests for grade 9 students.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
ISCED level 2 only, public	16	0	5	0	0	11
ISCED level 2 only, separate	4	1	3	0	0	0
ISCED level 2 only, Francophone	5	0	3	0	0	2

ISCED level 2 only, charter	2	0	2	0	0	0
ISCED level 2 only, private	5	0	1	1	0	3
ISCED level 2 and ICILS, public	100	2	44	13	1	40
ISCED level 2 and ICILS, separate	36	1	21	4	0	10
ISCED level 2 and ICILS, Francophone	21	1	17	0	0	3
ISCED level 2 and ICILS, charter	3	0	2	1	0	0
ISCED level 2 and ICILS, private	8	0	3	1	0	4
<b>Total</b>	<b>200</b>	<b>5</b>	<b>101</b>	<b>20</b>	<b>1</b>	<b>73</b>

#### Data Source

Data for the school sampling frame were obtained from Alberta Education's Corporate Data Warehouse and pertain to school year 2015/16.

## Australia

ISCED level 2 education in Australia corresponds to and includes teachers teaching in years 7 to 10 (junior secondary schools).

Coverage and Exclusions			
		ISCED level 2 schools	Measure of size in school
Target population		2 862	126 284
Exclusions:	Small schools (fewer than four students)	263	544
	Schools that are geographically remote	32	434
	Schools that are small and also geographically remote	31	55
Survey population		2 536	125 251
Coverage after exclusions (%)		88.61	99.18

## Sample Design

**Sample allocation:** Proportional to the number of teachers, followed by setting of requested sample sizes to achieve oversampling for states of Victoria, New South Wales and Queensland.

**Sample sizes:** Thirty schools for the field trial; 305 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to number of teachers.

**Measure of size:** Total number of secondary (ISCED levels 2 and 3) teachers in schools.

**Explicit stratification:** Organised by state with eight levels (Australian Capital Territory, New South Wales, Northern Territories, Queensland, South Australia, Tasmania, Victoria, Western Australia) and by sector (Catholic, government, independent) in the larger states.

**Implicit stratification:** Organised by school geographical location with four levels (metropolitan zone, provincial zone, remote zone, not applicable) and Socio-Economic Indexes for Areas within each state and with five levels (1–2, 3–4, 5–6, 7–8 and 9–10).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Australian Capital Territory and Northern Territories, Catholic	4	0	1	1	0	2
Australian Capital Territory and Northern Territories, government	4	1	2	0	1	0
Australian Capital Territory and Northern Territories, independent	4	0	1	1	0	2
New South Wales, Catholic	15	0	8	3	1	3
New South Wales, government	59	0	20	13	7	19

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
New South Wales, independent	13	0	5	1	1	6
Queensland, Catholic	8	0	1	3	2	2
Queensland, government	70	0	51	12	2	5
Queensland, independent	8	0	4	2	0	2
South Australia, Catholic	3	0	2	0	0	1
South Australia, government	7	0	5	1	1	0
South Australia, independent	3	0	2	0	1	0
Tasmania, Catholic	2	0	1	0	0	1
Tasmania, government	2	0	1	1	0	0
Tasmania, independent	2	0	1	0	0	1
Victoria, Catholic	19	0	11	3	0	5
Victoria, government	42	0	18	9	2	13
Victoria, independent	20	0	9	4	1	6
Western Australia, Catholic	4	0	1	0	0	3
Western Australia, government	11	0	6	3	2	0
Western Australia, independent	5	0	3	1	1	0
<b>Total</b>	<b>305</b>	<b>1</b>	<b>153</b>	<b>58</b>	<b>22</b>	<b>71</b>

#### **Data Sources**

The school sampling frame was developed by the Australian Council for Educational Research (ACER). State and educational departments were also consulted to refine the accuracy of the list of schools as of school year 2015.

## Austria

ISCED level 2 education in Austria covers grades 5 to 8.

Coverage and Exclusions			
		ISCED level 2 schools	Measure of size in schools
Target population		1 496	53 396
Exclusions:	Slovene school (not German-speaking, which is the language of instruction in Austrian schools)	1	34
Survey population		1 495	53 362
Coverage after exclusions (%)		99.93	99.94

## Sample Design

<b>Sample allocation:</b>	Disproportional allocation to allow comparison between tracks 1 and 2 educational provision.
<b>Sample sizes:</b>	Thirty schools for the field trial; 279 schools for the main survey. The field trial samples were taken from 631 schools out of 1 495 schools available in the sampling frame. For the main survey, oversampling was done on tracks AHS-Unterstufe and NMS-HS-VsOS.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of teachers in track 1 schools and in all track 2 schools; number of students in all track 3 schools.
<b>Explicit stratification:</b>	Organised by school type, with three track levels (AHS-Unterstufe, NMS-HS-VsOS, other)
<b>Implicit stratification:</b>	Organised by population density at school location with three levels (dense, medium, sparse) and by nine different federal states in Austria.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-Participating schools
AHS-Unterstufe	109	0	105	0	0	4
NMS-HS-VsOS	160	0	129	5	1	25
Other	10	2	4	1	1	2
<b>Total</b>	<b>279</b>	<b>2</b>	<b>238</b>	<b>6</b>	<b>2</b>	<b>31</b>

## Data Source

Data for number of schools (including number of students) came from the Ministry of Education's official school data base for school year 2014/15.

## Belgium

ISCED level 2 education in Belgium (Flanders and French) corresponds to the first stage of secondary education and is composed of grades 7 and 8. The first stage has two streams (tracks) called A and B.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		1 245	253 564
Exclusions:	Very small schools (fewer than 20 students at ISCED level 2)	10	93
	Special needs schools	79	6109
Survey population		1 156	247 362
Coverage after exclusions (%)		92.85	97.55

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of students.
<b>Sample sizes:</b>	Belgium (Flanders): 30 schools for the field trial; 200 schools for the main survey. Belgium (French): 15 schools for the field trial; 120 schools for the main survey.
<b>Method of sample selection:</b>	Belgium (Flanders): systematic sample proportional to school size. Belgium (French): systematic sample proportional to school size for all strata, except for stratum 4, which was simple random sampling.
<b>Measure of size:</b>	Belgium (Flanders): number of ISCED level 2 students. Belgium (French): number of ISCED level 2 students; for special needs schools (explicit stratum), number of 12- to 15-year-old students.
<b>Explicit stratification:</b>	Belgium (Flanders): no explicit stratification. Belgium (French): organised by type of funding with four levels: public at the state (community) level, public at the local level, private sectarian, private non-sectarian.
<b>Implicit stratification:</b>	Belgium (Flanders): organised by the three types of educational network in Flanders (privately managed schools, municipalities/provinces publicly managed schools, community education publicly managed schools) and educational track (schools can offer A and B tracks or A or B tracks at ISCED level 2), resulting in a total of six implicit strata. Belgium (French): organised by the five tracks at ISCED level 2: academic only, mixed (academic and vocational), vocational only, ISCED level 2 only (academic), and special, resulting in a total of five implicit strata.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Belgium (French), public community	31	0	30	1	0	0
Belgium (French), public Loc.	15	0	15	0	0	0
Belgium (French), private sectarian	72	0	66	6	0	0
Belgium (French), private non-sectarian	2	0	2	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Belgium (Flemish)	200	0	160	19	3	18
National stratum	5	0	4	0	0	1
<b>Total</b>	<b>325</b>	<b>0</b>	<b>277</b>	<b>26</b>	<b>3</b>	<b>19</b>

Note: "Loc" means at the local level.

### **Data Sources**

Belgium (Flanders): data for the school sampling frame were taken from the Flemish Ministry for Education and Training's administrative database for school year 2015/16. Belgium (French): data were obtained from the latest administrative data available (2014/15 school year), with the official number of students pertaining to 15 January 2015. French community: data were obtained from the latest administrative data available (2014/15 school year), with the official number of students pertaining to 15 January 2015.



## Flemish Community (Belgium)

ISCED level 2 education in Belgium (Flanders) corresponds to the first stage of secondary education and is composed of grades 7 and 8. The first stage of ISCED level 2 encompasses two streams (tracks) called A and B.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 students
Target population		718	131 666
Exclusions:	Very small schools (fewer than 20 students at ISCED level 2)	2	29
Survey population		716	131 637
Coverage after exclusions (%)		99.72	99.98

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	In Belgium (Flanders): number of ISCED level 2 students.
<b>Explicit stratification:</b>	Not used.
<b>Implicit stratification:</b>	Belgium (Flanders): organised by educational networks, of which there are three (privately managed schools, municipalities/provinces publicly managed schools, community education publicly managed schools), and educational track (schools can offer A and B tracks or A or B tracks at ISCED level 2), resulting in a total of six implicit strata.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Belgium (Flemish)	200	0	160	19	3	18
National stratum	5	0	4	0	0	1
<b>Total</b>	<b>205</b>	<b>0</b>	<b>164</b>	<b>19</b>	<b>3</b>	<b>19</b>

## Data Sources

In Belgium (Flanders): data used for the school sampling frame were taken from the Flemish Ministry for Education and Training's administrative database for school year 2015/16.

## Brazil

ISCED level 2 education in Brazil covers the final grades/years of fundamental education (in Portuguese, *séries/anos finais do ensino fundamental*). Of four years' duration, this level of education encompasses the sixth to ninth years of basic education.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		58 303	870 737
Exclusions:	Schools that have fewer than six teachers. Since in ISCED 2 level it is necessary one teacher for each subject, most of these schools have just one class. The schools that fall into these criteria are located in very remote areas of the country. Excluding them from the survey, increase our chances of meeting the minimum participation rate, as well as decreasing the cost of the survey.	4 957	18 896
	Public federally administered schools	38	1 724
Survey population		53 308	850 117
Coverage after exclusions (%)		91.43	97.63

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of schools.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic proportional to sample size. Two hundred ISCED level 2 schools and 200 ISCED level 3 schools were selected for the main survey, after which overlap control was used to select 30 ISCED level 2 schools and 30 ISCED level 3 schools for the field trial.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by ISCED level 2 only and ISCED levels 2 and 3 and by school type with three levels (public state, public local, private).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 2 only, private	28	2	17	4	1	4
ISCED level 2 only, public state	20	0	20	0	0	0
ISCED level 2 only, public local	64	1	60	2	0	1
ISCED levels 2 and 3, private	38	1	24	8	2	3

<b>School Participation Status</b>						
----- Participating Schools -----						
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED levels 2 and 3, public state	46	1	43	1	0	1
ISCED levels 2 and 3, public local	4	0	3	0	0	1
<b>Total</b>	<b>200</b>	<b>5</b>	<b>167</b>	<b>15</b>	<b>3</b>	<b>10</b>

#### **Data Source**

The School Census on Basic Education is carried out annually at the federal level. It collects information about all modalities of basic education: early childhood education, elementary education, secondary education, professional education and education for young and adults. Since 2007, teacher and student data have been collected individually. As a consequence of that change, the census provides information from all students and teachers, including personal data, educational background, the need for specialised educational services and/or different location of the school, and other support services to school development such as food and school transportation.

## Bulgaria

Since passage of the Education Act that came into effect for school year 2016/17, ISCED level 2 education in Bulgaria has encompassed grades 5 to 7, which together form lower secondary education. Before the act, ISCED level 2 encompassed grades 5 to 8.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		1 834	23 168
Exclusions:	Schools for students with special needs	67	454
	Very small schools	45	126
Survey population		1 722	22 588
Coverage after exclusions (%)		93.89	97.5

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial in November of 2016; selection of schools for the main survey has yet to be done.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by school type with two levels (up to grade 7, up to grade 12) and by location with four levels (capital, regional centre, city, village).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Up to ISCED level 2	96	0	91	3	2	0
Up to ISCED level 3	104	0	104	0	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>195</b>	<b>3</b>	<b>2</b>	<b>0</b>

## Data Source

Data were taken from the official website of the Shanghai Municipal Education Commission:  
<http://www.shmec.gov.cn/html/xxgk/201605/303142016002.php>

## CABA – Ciudad Autónoma de Buenos Aires (Argentina)

ISCED level 2 education in the city of Buenos Aires consists of grades 8 and 9. These grades form the lower secondary level of schooling. Note that grade 7 is part of Buenos Aires' primary schooling (ISCED level 1).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		488	84 762
Survey population		488	84 762
Coverage after exclusions (%)		100	100

## Sample Design

**Sample allocation:** Systematic proportional to size. Due to a lack of schools at ISCED levels 1 and 2, nine common schools (three from one stratum and six from another stratum) were sampled for both the ISCED level 1 and ISCED level 2 field trials; and 80 common schools (4, 50 and 26 schools from the different strata) were sampled for the ISCED level 1 and ISCED level 2 main survey. Two different sets of 20 teachers were sampled for these ISCED levels.

**Sample sizes:** Eighteen schools for the field trial; 150 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size, with the ISCED level 2 and ISCED level 1 samples selected together. The same schools were selected for both ISCED level 2 and ISCED level 1 whenever the samples were selected from schools offering both ISCED levels 1 and 2 education. The 80 schools for the main survey and nine schools for the field trial were selected in the same way. One set of 20 ISCED level 1 teachers and one set of 20 ISCED level 2 teachers were chosen from these same schools.

**Measure of size:** Number of ISCED level 2 students in schools. Because simple random sampling was carried out, measure of size was not applicable.

**Explicit stratification:** Organised by sector with two levels and by socio-economic status (SES) with three levels. However, some strata were collapsed as needed so as to have a sufficient number of schools in each stratum. Because ISCED levels 2 and 1 were executed at the same time, strata contain, as the first stratification variable, ISCED level 2 only and ISCED levels 1 and 2 for ISCED level 2, and ISCED level 1 only and ISCED levels 1 and 2 for ISCED level 1. At the second level, school sector (private and public) was used. For the last level, SES 2 and 3 were collapsed together for ISCED level 1 only with sector 1, while SES 1 and 2 were collapsed for ISCED level 1 only with sector 2. SES 1, 2 and 3 were collapsed for ISCED levels 1 and 2 with sector 1, while SES 1 and 2 were collapsed for ISCED levels 1 and 2 with sector 2.

**Implicit stratification:** Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 2 only, private, SES 1	36	0	27	2	0	7
ISCED level 2 only, private, SES 2 and 3	16	0	7	1	0	8
ISCED level 2 only, public, all SES levels	18	0	16	1	1	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 1, ISCED level 2, private, all SES levels	4	0	2	0	0	2
ISCED level 1, ISCED level 2, public, SES 1 and 2	50	0	45	2	0	3
ISCED level 1, ISCED level 2, SES 2 and 3	26	0	25	1	0	0
<b>Total</b>	<b>150</b>	<b>0</b>	<b>122</b>	<b>7</b>	<b>1</b>	<b>20</b>

**Data Sources**

Data were obtained from the National Educational Annual Survey 2016 and Buenos Aires Students Assessments 2015.

## Chile

Lower secondary education in Chile includes grades 7 and 8. Most students begin this level of education at around 12 years of age.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		6 008	51 626
Exclusions:	Schools with fewer than three teachers	681	1 433
	Schools located in geographically remote areas	4	27
Survey population		5 323	50 166
Coverage after exclusions (%)		88.6	97.17

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic proportional to sample size. Two hundred schools were sampled for the main survey. Thirty schools were then sampled from region 13 only, but not until the main survey samples and the corresponding replacements had been removed from the sampling frame. (Overlap control was used to select the TALIS Video Study sample because the conditional probabilities from the ISCED level 2 main survey and the field trial were considered before the TVS samples were selected.)
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by type of institution with three levels (public, government dependent private, independent private)
<b>Implicit stratification:</b>	Organised by region with 15 levels.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public	88	0	79	8	0	1
Government dependent	78	3	56	8	0	11
Independent private	34	2	22	5	1	4
National school stratum	1	0	1	0	0	0
<b>Total</b>	<b>201</b>	<b>5</b>	<b>158</b>	<b>21</b>	<b>1</b>	<b>16</b>

## Data Sources

The school sampling frame was developed using information from Chile's censuses of students and teachers by school (via web application) for ISCED levels 0 to 3, as well as information from Chile's national school directory.

## Colombia

In Colombia, the Ministry of Education's SIMAT (Sistema Integrado de Matricula) was used to determine number of schools as of May 2016. SIMAT is a database that contains information on all Colombian students in all grades. This database is updated each three months. The Ministry of Education's permanent staff records (*recursos humanos del sector*) were used to calculate the number of ISCED level 2 teachers in public schools in Colombia.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 students
Target population		13 009	144 074
Exclusions:	Small schools (fewer than three ISCED level 2 teachers)	322	3 609
	Codes of the territorial entity not found in SIMAT	15	216
Survey population		12 672	140 249
Coverage after exclusions (%)		97.41	97.35

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size for the main survey and the TALIS Video Study. All selected schools for the main survey and the TVS were then removed from the sampling frame used for the TALIS-PISA link field trial sample selection. However, Colombia then elected to change the stratification variables for the ISCED level 2 main survey and to keep the samples for the ISCED level 2 field trial and the TALIS-PISA link field trial. Overlap control was then used to select new ISCED level 2 main survey and TVS samples.
<b>Measure of size:</b>	Number of ISCED level 2 students.
<b>Explicit stratification:</b>	Organised by school type with two levels (public, private). Public schools were then stratified by urbanisation with two levels (rural, urban).
<b>Implicit stratification:</b>	Organised by geographic areas with 95 levels.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Public rural	40	1	27	1	0	11
Public urban	120	0	90	4	0	26
Private	40	0	30	2	0	8
<b>Total</b>	<b>200</b>	<b>1</b>	<b>147</b>	<b>7</b>	<b>0</b>	<b>45</b>

## Data Source

Data on number of schools (as of May 2016) were obtained from SIMAT (Sistema Integrado de Matricula) of the Ministry of Education. The SIMAT database contains information on all Colombian students across all grades and is updated every three months.



## Croatia

ISCED level 2 education in Croatia consists of four grades (grades 5 to 8). Students are taught by teachers responsible for specific subjects.

Coverage and Exclusions		ISCED level 2 schools	Students in schools
Target population		860	297 389
Exclusions:	National minority schools (Italian, Serbian schools)	11	165
Survey population		849	297 224
Coverage after exclusions (%)		98.72	99.94

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students, with conditional probability used to minimise overlap sampling between the TALIS 2018 and TALIS 2013 samples.
<b>Sample sizes:</b>	Thirty-four schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. Overlap control was used during selection of the TALIS 2018 ISCED level 2 field trial and main survey samples. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for TALIS 2018 that were sampled for TALIS 2013.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by region with six levels (Central Croatia, Eastern Croatia, Northern Croatia, Western Croatia, Southern Croatia, City of Zagreb).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Central Croatia	46	1	44	0	0	1
Eastern Croatia	25	0	25	0	0	0
Northern Croatia	24	1	23	0	0	0
Western Croatia	27	0	27	0	0	0
Southern Croatia	45	0	41	0	0	4
City of Zagreb	33	2	26	2	0	3
<b>Total</b>	<b>200</b>	<b>4</b>	<b>186</b>	<b>2</b>	<b>0</b>	<b>8</b>

## Data Sources

Data on number of schools were obtained from the Ministry of Education's E-matica database for the 2016/17 school year. Data on number of teachers were obtained from the Croatian Bureau of Statistics (<http://www.dzs.hr>).

## Cyprus

ISCED level 2 education in Cyprus is defined differently for public schools and private schools. In public schools, this level of education consists of grade 1 (students 12 to 13 years of age), grade 2 (students 13 to 14 years of age) and grade 3 (students 14 to 15 years of age). In private schools, ISCED level 2 education consists of year/grade 7 (students 12 to 13 years of age), year/grade 8 (students 13 to 14 years of age) and year/grade 9 (students 14 to 15 years of age).

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		102	4 426
Exclusions:	School in a very remote geographical location	1	13
	School teaching language other than Greek or English	1	8
	Very small school with part-time teachers and with neither a head teacher nor an assistant head teacher	1	5
Survey population		99	4 400
Coverage after exclusions (%)		97.06	99.41

## Sample Design

<b>Sample allocation:</b>	Census, therefore not applicable.
<b>Sample sizes:</b>	Convenience sample of nine schools selected for the field trial; census of schools (99) for the main survey.
<b>Method of sample selection:</b>	Census.
<b>Measure of size:</b>	Not applicable.
<b>Explicit stratification:</b>	Not applicable.
<b>Implicit stratification:</b>	Not applicable.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public	70	0	70	0	0	0
Private	29	0	18	0	0	11
<b>Total</b>	<b>99</b>	<b>0</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>11</b>

## Data Source

The data source for the names of the schools and the number of eligible teachers was the Ministry of Education and Culture ([www.moec.gov.cy](http://www.moec.gov.cy)).

## Czech Republic

ISCED level 2 in the Czech Republic includes the second stage of elementary school (grades 6 to 9 for children who are usually between the ages of 11 and 15) and the lower grades of the multi-year gymnasium. These grades encompass grades 1 to 4 of the eight-year-long programme or grades 1 to 2 of the six-year-long programme and are for children ages 11/13 to 15.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		2 645	39 690
Exclusions:	Schools with different language of instruction (Polish only)	10	116
	Dancing conservatories offering specific education programmes	5	122
	Very small schools (fewer than three ISCED level 2 teachers)	14	11
Survey population		2 616	39 441
Coverage after exclusions (%)		98.9	99.37

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of full-time employed teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 220 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size for the ISCED level 2 field trial and main survey samples. A sample overlap control method developed by Chowdhury, Chu, and Kaufman (2000) was used to minimise the probability of selecting the same schools for the ISCED level 2 and the TALIS-PISA link field trial samples.
<b>Measure of size:</b>	Number of full-time employed teachers.
<b>Explicit stratification:</b>	Organised by type of school with two levels (elementary, gymnasium).
<b>Implicit stratification:</b>	Organised by region, resulting in 14 strata (Praha, Stredočeský, Jihočeský, Plzeňský, Karlovarský, Ústecký, Liberecký, Královéhradecký, Pardubický, Vysocina, Jihomoravský, Olomoucký, Zlínský, Moravskoslezský).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Elementary	176	1	175	0	0	0
Gymnasium	44	0	44	0	0	0
<b>Total</b>	<b>220</b>	<b>1</b>	<b>219</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Data Sources

Data for the school sampling frame were taken from annual statistics of schools compiled by the Institution for Information in Education and pertain to October 2010. The institution collects data every October and makes tables of information available usually in February of the following year.

## Denmark

ISCED 2 level education in Denmark covers grades 7 to 9 (compulsory) and grade 10 (non-compulsory).

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 students
Target population		1 721	229 521
Exclusions:	Small schools (fewer than 40 students and generally fewer than five teachers)	251	4 717
Survey population		1 470	224 804
Coverage after exclusions (%)		85.42	97.94

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size. Samples for ISCED level 2 and ISCED level 1 were selected together.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by ISCED level (ISCED level 2 only, ISCED levels 1 and 2).
<b>Implicit stratification:</b>	Organised by school type with four levels (public, private, boarding, other) and region with five levels (1081 Nordjylland, 1082 Midtjylland, 1083 Syddanmark, 1084 Hovedstaden, 1085 Sjælland).

School Participation Status	----- Participating Schools -----					
	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 2 only	36	1	15	6	2	12
ISCED levels 1 and 2	164	3	84	25	9	43
<b>Total</b>	<b>200</b>	<b>4</b>	<b>99</b>	<b>31</b>	<b>11</b>	<b>55</b>

## Data Sources

Information on the number of schools was taken from the sampling frame. The information on number of teachers came from Statistikbanken (Statistics Denmark).

## England (United Kingdom)

ISCED level 2 education in England corresponds to years 7, 8 and 9. Students are generally taught in secondary schools that fully cover ISCED levels 2 and 3 grades. Many of these schools additionally provide post-secondary education. One in four schools with students at ISCED level 2 has students at ISCED level 1. In 13% of the in-scope schools, ISCED level 2 is only partially covered, meaning that at least one grade (year group) is not present. Some schools, around 10% of those in scope, partially cover ISCED level 2 alongside ISCED level 1. In three percent of schools, ISCED level 2 is partially covered alongside ISCED level 3.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		4 345	1 759 162
Exclusions:	International schools	13	1 998
	Very small schools	57	2202
	Schools proposed for closure	17	329
Survey population		4 258	1 754 633
Coverage after exclusions (%)		98	99.74

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students, then adjusted so that a minimum of eight schools was selected in the smaller strata.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED level 2 were selected first, after which the overlap control samples for ISCED level 1 were selected. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED level 2.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by school funding with two levels (state funded, privately funded) and size of school by two levels (small, not small). Region (with four levels) was used as an additional explicit stratum for “private, not small” and “state, not small” schools. For strata that had only a few schools, levels were collapsed appropriately and by request from the English TALIS 2018 team.
<b>Implicit stratification:</b>	The implicit stratum used for the “private, small” explicit stratum was region with four levels (London, Midlands, North, South). Implicit stratification was not used for the “state, small” explicit stratum, but was organised by Free School Meal band (low, middle, high) for the “private, not small” stratum, which was then ordered by measure of size.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
01. Private, small, all regions	8	1	1	0	0	6
02. Private, not small, North	8	0	1	2	0	5

School Participation Status							
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----				Non-participating schools
			Sampled schools	First replacement	Second replacement		
03. Private, not small, Midlands	8	0	3	2	0	3	
04. Private, not small, London	8	0	2	0	0	6	
05. Private, not small, South	8	0	3	2	0	3	
06. State, small, all regions	8	0	6	0	0	2	
07. State, not small, North	44	1	32	6	0	5	
08. State, not small, Midlands	28	3	18	2	0	5	
09. State, not small, London	24	0	18	2	0	4	
10. State, not small, South	56	3	47	1	1	4	
<b>Total</b>	<b>200</b>	<b>8</b>	<b>131</b>	<b>17</b>	<b>1</b>	<b>43</b>	

#### Data Sources

Lists of open schools were sourced from the Department for Education's register of educational establishments (edubase): <http://www.education.gov.uk/edubase/home.xhtml>

Data were not available for number of ISCED level 2 teachers. Data on the total number of teachers in state schools, however, were sourced from <https://www.gov.uk/government/statistics/school-workforce-in-england-november-2015>, while data on the total number of teachers in private schools came from unpublished information provided by the Department for Education. Data on student numbers came from <https://www.gov.uk/government/statistics/schools-pupils-and-their-characteristics-january-2016>

## Estonia

ISCED level 2 education in Estonia encompasses grades 7 to 9.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		404	8 622
Exclusions:	International schools	4	34
	Ballet school	1	21
Survey population		399	8 567
Coverage after exclusions (%)		98.76	99.36

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The approach used to minimise the overlap was developed by Chowdhury, Chu, and Kaufman (2000).
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by location with two levels (urban area, rural area) and by type of school with two levels (primary, upper and lower).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Urban, primary	32	1	28	3	0	0
Urban, upper and lower	46	0	37	9	0	0
Rural, primary	92	4	80	8	0	0
Rural, upper and lower	30	0	27	3	0	0
National school stratum	6	0	6	0	0	0
<b>Total</b>	<b>206</b>	<b>5</b>	<b>178</b>	<b>23</b>	<b>0</b>	<b>0</b>

## Data Source

Data were provided by the Estonian Education Information System.

## Finland

ISCED level 2 education in Finland corresponds to grades 7 to 9 (compulsory), plus grade 10 (non-compulsory).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		722	
Exclusions:	International/foreign/immersion schools, where all students are taught in languages other than Finnish or Swedish	8	
Survey population		714	
Coverage after exclusions (%)		98.89	

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students (adjusted by special request).
<b>Sample sizes:</b>	Fifteen schools for the field trial; 150 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. Samples for the ISCED level 2 field trial and main survey were selected together. The samples for the ICILS main survey (150) and field trial (32) were selected together.
<b>Measure of size:</b>	Number of ISCED level 2 students.
<b>Explicit stratification:</b>	The first explicit stratification was organised by major region with five levels (Helsinki/Uusimaa, Southern, Western, Northern and Eastern, and Swedish speaking). The second explicit stratum for the Helsinki/Uusimaa region was set as urbanisation with one level (urban/semi-urban/rural), while that for the Southern, Western, Northern and Eastern regions was set as urbanisation with two levels (urban/semi-urban, rural). The second explicit stratum for the Swedish-speaking region was accorded seven levels (Eastern, Western and Inland, Northern, Lapland, No Aland, Aland, Non-e). The total number of explicit strata for Finland was therefore nine.
<b>Implicit stratification:</b>	The implicit stratum for the explicit strata of "Helsinki/Uusimaa, urban/semi-urban and rural", "Southern, urban/semi-urban", "Southern, rural", "Western, urban/semi-urban", and "Western, rural" was regional state with seven levels (Eastern, Western and Inland, Northern, Lapland, No Aland, Aland, Non-e). The implicit stratum for "Swedish-speaking, No Aland" and "Swedish-speaking, Aland" was urbanisation with two levels (urban/semi-urban, rural).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Helsinki/Uusimaa, urban/semi-urban and rural	36	0	36	0	0	0
Southern, urban/semi-urban	26	1	25	0	0	0
Southern, rural	6	0	6	0	0	0
Western, urban/semi-urban	28	0	28	0	0	0
Western, rural	6	0	6	0	0	0



<b>School Participation Status</b>						
----- Participating Schools -----						
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Northern and Eastern, urban/semi-urban	28	1	27	0	0	0
Northern and Eastern, rural	10	0	10	0	0	0
Swedish speaking, No Åland	8	0	8	0	0	0
Swedish speaking, Åland	2	0	2	0	0	0
<b>Total</b>	<b>150</b>	<b>2</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### **Data Source**

The school sampling frame was developed using school registration data from Statistics Finland for school year 2015.

## France

ISCED level 2 education in France comprises the 6th, 5th, 4th and 3rd years of college (*6ème, 5ème, 4ème et 3ème en collège*).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		7 203	215 940
Exclusions:	Schools located in overseas French territories ( <i>Territoire outre-mer</i> )	79	1 342
	Schools located in La Réunion and Mayotte (Southern Hemisphere calendar)	103	5 529
	Private schools under different administration	193	
Survey population		6 828	209 069
Coverage after exclusions (%)		94.79	96.82

Note: The number of ISCED level 2 teachers in excluded private schools under different administration is not known.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey. To avoid overlap between the first field trial schools and the main survey schools, an extra 20 schools were sampled for the second field trial.
<b>Method of sample selection:</b>	Systematic proportional to sample size. The extra 20 schools for the field trial were taken from the sampling frame that excluded the ISCED level 2 field trial and main survey samples and replacements and the ICILS field trial and main survey samples and replacements. The ICILS field trial and main survey samples were selected after the ISCED level 2 field trial and main survey. The selection process included use of overlap control. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for the ICILS samples that had already been selected for ISCED level 2.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by school type with three levels (public school non-priority education, public school priority education, private school) and degree of urbanisation with three levels (fewer than 10 000 inhabitants, 10 000 to 200 000 inhabitants, more than 200 000 inhabitants).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Public school, non-priority education, fewer than 10 000 inhabitants	47	0	44	0	0	3

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Public school, non-priority education, 10 000 to 200 000 inhabitants	36	1	33	0	0	2
Public school, non-priority education, more than 200 000 inhabitants	41	0	36	0	0	5
Public school, priority education, fewer than 10 000 inhabitants	3	0	3	0	0	0
Public school, priority education, 10 000 to 200 000 inhabitants	13	0	13	0	0	0
Public school, priority education, more than 200 000 inhabitants	20	0	17	0	0	3
Private school, fewer than 10 000 inhabitants	10	0	8	0	0	2
Private school, 10 000 to 200 000 inhabitants	14	0	10	0	0	4
Private school, more than 200 000 inhabitants	16	0	11	1	0	4
<b>Total</b>	<b>200</b>	<b>1</b>	<b>175</b>	<b>1</b>	<b>0</b>	<b>23</b>

#### Data Sources

Data on public and private schools were obtained from BCE (database on all schools in France). Data about teachers were obtained from APAE (database on teachers and schools in French secondary schools). The French educational authorities collect both sets of data for administrative purposes.

## Georgia

ISCED level 2 education in Georgia includes the second stage of elementary school (grades 6 to 9).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		2 265	42 757
Exclusions:	Schools taught in a minority language only	13	249
	Very small schools (fewer than four students)	2	6
Survey population		2 250	42 502
Coverage after exclusions (%)		99.34	99.4

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size for the ISCED level 2 field test and main survey samples. Samples of schools for the ISCED level 2 field trial and main survey and for the TALIS-PISA link field trial were selected together.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by location with two levels (rural, urban) and type of funding, also with two levels (private, public).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Rural, public	114	4	109	0	0	1
Urban, private	21	3	18	0	0	0
Urban, public	65	0	65	0	0	0
National schools	6	0	6	0	0	0
<b>Total</b>	<b>206</b>	<b>7</b>	<b>198</b>	<b>0</b>	<b>0</b>	<b>1</b>

## Data Sources

Data were obtained from the National Centre for Education Management Information System (EMIS). The data in the sampling frame were collected from schools in February 2016.

## Hungary

ISCED level 2 education in Hungary comprises grades 5 to 8.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		2 844	37 938
Exclusions:	Very small schools (fewer than three ISCED level 2 teachers)	85	126
Survey population		2 759	37 812
Coverage after exclusions (%)		97.01	99.67

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic proportional to size sample.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by geographical regions with seven levels (Central Hungary, Central Transdanubia, Northern Great Plain, Northern Hungary, Southern Great Plain, Southern Transdanubia, Western Transdanubia) and type of community with four levels (capital, county town, rural area, town).
<b>Implicit stratification:</b>	Not used.

School Participation Status							
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----				Non-participating schools
			Sampled schools	First replacement	Second replacement		
Central Hungary, capital	34	0	31	2	1	0	
Central Hungary, rural area	7	0	6	1	0	0	
Central Hungary, town	17	0	16	1	0	0	
Central Transdanubia, county town	5	0	5	0	0	0	
Central Transdanubia, rural area	8	0	7	0	0	1	
Central Transdanubia, town	9	0	8	0	0	1	
Northern Great Plain, county town	7	1	6	0	0	0	
Northern Great Plain, rural area	11	0	11	0	0	0	
Northern Great Plain, town	14	1	13	0	0	0	

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Northern Hungary, county town	5	0	5	0	0	0
Northern Hungary, rural area	11	1	10	0	0	0
Northern Hungary, town	8	0	8	0	0	0
Southern Great Plain, county town	7	0	6	1	0	0
Southern Great Plain, rural area	6	0	6	0	0	0
Southern Great Plain, town	12	2	10	0	0	0
Southern Transdanubia, county town	5	0	5	0	0	0
Southern Transdanubia, rural area	7	0	6	0	0	1
Southern Transdanubia, town	7	0	7	0	0	0
Western Transdanubia, county town	6	1	5	0	0	0
Western Transdanubia, rural area	7	1	5	0	0	1
Western Transdanubia, town	7	0	7	0	0	0
<b>Total</b>	<b>200</b>	<b>7</b>	<b>183</b>	<b>5</b>	<b>1</b>	<b>4</b>

#### **Data Sources**

Data were obtained from the Ministry of Education's KIR-STAT database and pertain to school year 2015/16.

## Iceland

The Icelandic education system covers grades 1 to 10. ISCED level 2 education covers grades 8 to 10, with students typically starting this level at 13 years of age.

Coverage and Exclusions		ISCED level 2 schools	Teachers in schools
Target population		142	4 057
Survey population		142	4 057
Coverage after exclusions (%)		100	100

## Sample Design

<b>Sample allocation:</b>	Census, therefore not applicable.
<b>Sample sizes:</b>	Convenience sample of 15 largest schools for the field trial; all schools for the main survey.
<b>Method of sample selection:</b>	Census.
<b>Measure of size:</b>	Not applicable.
<b>Explicit stratification:</b>	Not applicable.
<b>Implicit stratification:</b>	Not applicable.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
All	142	6	122	0	0	14
<b>Total</b>	<b>142</b>	<b>6</b>	<b>123</b>	<b>0</b>	<b>0</b>	<b>13</b>

## Data Source

Data for the school sampling frame was provided by Námsmatsstofnun, Educational Testing Institute, Iceland. The institute is responsible for administering the national examination at the end of ISCED level 2 education.

## Israel

ISCED level 2 education in Israel correspond to grades 7 to 9. ISCED level 2 consists of four types of school: primary and lower secondary (grades 1 to 8); lower secondary (grades 7 to 9); lower and upper secondary (grades 7 to 12); and upper secondary (grades 9 to 12).

Coverage and Exclusions		ISCED level 2 schools	Measure of size in schools
Target population		2 475	13 684
Exclusions:	Language communities (international/foreign schools with a single minor language as language of instruction)	5	26
	Hebrew ultra-Orthodox	1 246	2 880
Survey population		1 224	10 778
Coverage after exclusions (%)		49.45	78.76

Note: During data collection, the Hebrew ultra-Orthodox schools will be excluded from the TALIS study.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 classes.
<b>Sample sizes:</b>	Fifteen schools for the field trial; 220 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 classes in schools.
<b>Explicit stratification:</b>	Organised by language and instruction type with seven levels (Hebrew secular, Hebrew religious, Arabic-Arab, Arabic-Druze, Arabic-Bedouin, Hebrew ultra-Orthodox, Hebrew ultra-Orthodox).
<b>Implicit stratification:</b>	Organised by grade structure with four levels (primary and lower secondary, lower secondary, lower and upper secondary, upper secondary) and by socio-economic status with three levels (low, medium, high).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Hebrew secular	104	1	88	2	0	13
Hebrew religious	40	2	28	1	0	9
Hebrew ultra-Orthodox, all female	10	10	0	0	0	0
Hebrew ultra-Orthodox, all male	10	10	0	0	0	0
Arabic-Arab	36	0	34	0	0	2
Arabic-Druze	5	0	5	0	0	0
Arabic-Bedouin	15	0	13	1	0	1
<b>Total</b>	<b>220</b>	<b>23</b>	<b>168</b>	<b>4</b>	<b>0</b>	<b>25</b>

## Data Source

The school sampling size was based on data from the Ministry of Education registration of schools and classes (updated November 2017).



## Italy

ISCED level 2 education in Italy corresponds to lower secondary schooling. It comprises three years of schooling. On average, students begin the first of these three years at age 11 and the last year at age 13. ISCED level 2 has both state and non-state schools consisting of public schools managed by central government, public schools managed by local government (in two regions only), and private schools.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		5 783	154 071
Exclusions:	ISCED level 2 schools with fewer than three teachers	63	90
Survey population		5 720	153 981
Coverage after exclusions (%)		98.91	99.94

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by territorial division with three levels (north, central, south) and type of school with two levels (state, non-state).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
North, state	70	1	64	3	2	0
North, non-state	6	0	6	0	0	0
Central, state	34	0	32	2	0	0
Central, non-state	4	2	1	1	0	0
South, state	82	3	71	5	1	2
South, non-state	4	1	3	0	0	0
<b>Total</b>	<b>200</b>	<b>7</b>	<b>177</b>	<b>11</b>	<b>3</b>	<b>2</b>

## Data Source

Data from the Ministry of Education's school and teacher database were used to develop the school sampling frame.

## Japan

ISCED level 2 education in Japan consists of grades 7 to 9 that together form lower secondary school. This level of education is the second stage of compulsory education.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		10 426	264 356
Survey population		10 426	264 356
Coverage after exclusions (%)		100	100

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type with two levels (public, private or national) and by location with four levels (very large city, large city, small city, non-city area) for public schools only. The stratum "private or national school" was not broken into the four school locations because of its small population size. This decision meant a total of five strata: public, very large city; public, large city; public, small city; public, non-city area; private or national.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public, very large city	39	0	39	0	0	0
Public, large city	24	1	23	0	0	0
Public, small city	92	2	84	6	0	0
Public, non-city area	21	0	19	2	0	0
Private or national	24	0	17	5	1	1
<b>Total</b>	<b>200</b>	<b>3</b>	<b>182</b>	<b>13</b>	<b>1</b>	<b>1</b>

## Data Source

Data were drawn from the School Basic Survey (Gakkou Kihon Tyousa) conducted by the Ministry of Education, Culture, Sports, Science and Technology, for school year 2015/16. Survey findings were officially announced on 25 December 2015.

## Kazakhstan

ISCED level 2 lower secondary education, which includes grades 5 to 9 (Order of the Ministry of Education and Science of Kazakhstan, dated 8 November 2012 # 500 "On approval of typical curricula of primary, lower secondary, general secondary education of Kazakhstan"). The Nazarbayev Intellectual Schools (NIS) in the sample have a different grade structure at ISCED level 2, namely grades 6 to 9 and grade 10 (AEO NIS, 18 April 2013, Development Strategy 2020 of AEO Nazarbayev Intellectual Schools).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		6 424	208 254
Exclusions:	Uzbek, Uighur and Tadjik schools, where the language of instruction differs from the languages that will be used for TALIS (i.e., Kazakh and Russian). These schools cater to less than five percent of Kazakhstan's school population	30	1 215
	Schools located in the Baikonur region (special permission is needed to enter this territory )	5	306
	Schools with fewer than three ISCED level 2 teachers	2	5
	English language school	1	60
Survey population		6 386	206 668
Coverage after exclusions (%)		99.41	99.24

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools were selected for the field trial. Modified stratification with overlap control was used to select the schools (333 schools sampled) for the main survey so as to minimise the probability of selecting schools that had already participated in the field trial.
<b>Method of sample selection:</b>	Systematic proportional to size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type with seven levels (see table), region with 16 levels (see table) and location with two levels (urban, rural). The explicit stratification for school type used in the field trial and in the main survey differed.
<b>Implicit stratification:</b>	Language with three levels (Kazakh, Russian, mixed) used for implicit stratification.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
NIS, none, none	20	0	20	0	0	0
Kazakh-Turkish lyceum, none, none	14	0	14	0	0	0
School taking part in per capita financing	38	0	38	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
experiment, none, none						
Trilingual Daryn school, none, none	18	0	18	0	0	0
Private school, none, none	41	1	39	1	0	0
Republican physics-mathematical school, none, none	2	0	2	0	0	0
Other public school, Akmolinskaya Oblast, rural	10	0	10	0	0	0
Other public school, Akmolinskaya Oblast, urban	4	0	4	0	0	0
Other public school, Aktubinskaya Oblast, rural	6	0	6	0	0	0
Other public school, Aktubinskaya Oblast, urban	4	0	4	0	0	0
Other public school, Almatinskaya Oblast, rural	16	0	16	0	0	0
Other public school, Almatinskaya Oblast, urban	4	0	4	0	0	0
Other public school, Atyrauskaya Oblast, rural	4	0	4	0	0	0
Other public school, Atyrauskaya Oblast, urban	4	0	4	0	0	0
Other public school, city of Almaty, urban	6	0	6	0	0	0
Other public school, city of Astana, urban	6	0	6	0	0	0
Other public school, East Kazakhstan Oblast, rural	14	0	14	0	0	0
Other public school, East Kazakhstan Oblast, urban	4	0	4	0	0	0
Other public school, Karagandinskaya Oblast, rural	8	0	8	0	0	0
Other public school, Karagandinskaya Oblast, urban	6	0	6	0	0	0
Other public school, Kostanayskaya Oblast, rural	10	1	9	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Other public school, Kostanayskaya Oblast, urban	4	0	4	0	0	0
Other public school, Kyzylordinskaya Oblast, rural	6	0	6	0	0	0
Other public school, Kyzylordinskaya Oblast, urban	4	0	4	0	0	0
Other public school, Mangystauskaya Oblast, rural	4	0	4	0	0	0
Other public school, Mangystauskaya Oblast, urban	4	0	4	0	0	0
Other public school, North Kazakhstan Oblast, rural	10	0	10	0	0	0
Other public school, North Kazakhstan Oblast, urban	4	0	4	0	0	0
Other public school, Pavlodarskaya Oblast, rural	8	0	8	0	0	0
Other public school, Pavlodarskaya Oblast, urban	4	0	4	0	0	0
Other public school, South Kazakhstan Oblast, rural	20	0	20	0	0	0
Other public school, South Kazakhstan Oblast, urban	4	0	4	0	0	0
Other public school, West Kazakhstan Oblast, rural	6	0	6	0	0	0
Other public school, West Kazakhstan Oblast, urban	4	0	4	0	0	0
Other public school, Zhambylskaya Oblast, rural	8	0	8	0	0	0
Other public school, Zhambylskaya Oblast, urban	4	0	4	0	0	0
<b>Total</b>	<b>333</b>	<b>2</b>	<b>330</b>	<b>1</b>	<b>0</b>	<b>0</b>

#### Data Sources

Data were collected from schools in September 2016 with the help of the Ministry of Education and Science, regional education departments and the Committee for Sport and Physical Education.

## Korea

ISCED level 2 education in Korea covers grades 7, 8 and 9

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		3 252	69 820
Exclusions:	Schools with fewer than three ISCED level 2 teachers	7	17
	Schools that are geographically remote	151	1 073
	Schools with fewer than three ISCED level 2 teachers and that are also located in geographically remote areas	4	7
	Schools with alternative curriculum, teacher licensure and school structure	31	382
Survey population		3 059	68 341
Coverage after exclusions (%)		94.07	97.88

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED level 2 and ISCED level 1 were taken together.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by geographical regions with 17 provinces (see table).
<b>Implicit stratification:</b>	Organised by school funding with two levels (public, private).

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
ISCED level 2, 01.강원	6	0	5	0	0	1
ISCED level 2, 02.경기	48	0	31	10	0	7
ISCED level 2, 03.경남	14	0	11	0	0	3
ISCED level 2, 04.경북	11	0	9	1	0	1
ISCED level 2, 05.광주	7	0	6	0	0	1
ISCED level 2, 06.대구	10	0	8	2	0	0
ISCED level 2, 07.대전	6	0	5	0	0	1
ISCED level 2, 08.부산	11	0	10	0	0	1

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 2, 09.서울	33	0	16	5	0	12
ISCED level 2, 10.세종	4	0	2	0	0	2
ISCED level 2, 11.울산	5	0	4	0	0	1
ISCED level 2, 12.인천	11	0	6	1	0	4
ISCED level 2, 13.전남	7	0	7	0	0	0
ISCED level 2, 14.전북	8	0	7	1	0	0
ISCED level 2, 15.제주	4	0	2	0	0	2
ISCED level 2, 16.충남	9	0	8	0	0	1
ISCED level 2, 17.충북	6	0	4	2	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>141</b>	<b>22</b>	<b>0</b>	<b>37</b>

#### **Data Source**

The school sampling frame was developed using data from the statistical database managed by the Korean Educational Development Institute. Data pertain to school year 2015.

## Latvia

ISCED 2 education in Latvia includes grades 5 to 9.

Coverage and Exclusions			ISCED level 2 schools	ISCED level 2 students
Target population			695	
Exclusions:	International school (for diplomats' children, etc.)		2	
	Special regime (criminal) school		1	
Survey population			692	
Coverage after exclusions (%)			99.57	.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Fifteen schools for the field trial; 150 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The approach used to minimise the probability of sampling overlap was developed by Chowdhury, Chu, and Kaufman (2000).
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by school type with three levels (basic, secondary, gymnasium) and urbanisation with four levels (Riga, city, rural, town). Urbanisation levels were collapsed for the gymnasium schools because of the low number of these schools.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
Basic, Riga	5	0	5	0	0	0
Basic, city	6	0	6	0	0	0
Basic, rural	20	0	13	3	1	3
Basic, town	7	1	6	0	0	0
Secondary, Riga	35	0	24	6	0	5
Secondary, city	20	0	17	0	0	3
Secondary, rural	18	0	16	1	0	1
Secondary, town	22	1	17	4	0	0
Gymnasium, all	17	0	14	2	0	1
<b>Total</b>	<b>150</b>	<b>2</b>	<b>118</b>	<b>16</b>	<b>1</b>	<b>13</b>

## Data Source

Data were obtained from the Ministry of Education and Science and pertain to school year 2015/16.



## Lithuania

ISCED level 2 education in Lithuania covers grades 7 to 9 (or 1 gymnasium).

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		960	84 730
Exclusions:	International schools (with English and French as the languages of instruction and of the education system)	3	136
	Youth schools (these implement the basic education programme but also have a strong focus on special education, that is, education for emotionally or socially disadvantaged students)	12	736
	Small schools (fewer than 10 students at ISCED level 2)	19	117
Survey population		926	83 741
Coverage after exclusions (%)		96.46	98.83

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students within school type but not to the number of ISCED level 2 students within municipality size.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 students in a school.
<b>Explicit stratification:</b>	Organised by urbanisation with four levels (capital, other major cities, cities, small cities and villages).
<b>Implicit stratification:</b>	Organised by language of instruction at school with four levels (Lithuanian, Russian, Polish, mixed).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Capital	34	0	34	0	0	0
Other major cities	45	0	45	0	0	0
Cities	77	2	75	0	0	0
Small cities and villages	44	3	41	0	0	0
<b>Total</b>	<b>200</b>	<b>5</b>	<b>195</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Data Sources

Data were drawn from the Centre of Information Technologies in Education's management information system and pertain to the 2015/16 school year.

## Malta

ISCED level 2 education in Malta covers the first three years of secondary schooling (years 7 to 9).

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		63	3 271
Exclusions:	Language school	2	16
Survey population		61	3 255
Coverage after exclusions (%)		96.83	99.51

## Sample Design

**Sample allocation:** Census, therefore not applicable.

**Sample sizes:** A convenience sample of Malta's six largest ISCED level 2 schools was selected for the field trial; all ISCED level 2 schools were selected for the main survey (five teachers from each of the six field trial schools). Another five teachers were selected for the TALIS-PISA link field trial. The remaining teachers from these six schools were selected for the ISCED level 2 main survey, as were all teachers from all other schools.

**Method of sample selection:** Census.

**Measure of size:** Not applicable.

**Explicit stratification:** Organised by school governance with two levels (state, church and independent schools) for the main survey, and by the six largest schools in the state governance stratum.

**Implicit stratification:** Not applicable.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Church	22	0	22	0	0	0
Independent	11	1	10	0	0	0
State	28	2	23	0	0	3
<b>Total</b>	<b>61</b>	<b>3</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>3</b>

## Data Source

Data were obtained through official documentation from the Human Resources Department and Quality Assurance Department within the Ministry for Education and Employment.

## Mexico

ISCED level 2 education in Mexico is compulsory, corresponds to lower secondary education and consists of the three grades (years 7 to 9) that students need to complete to gain their secondary certificate.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		16 763	328 649
Exclusions:	Schools with fewer than three teachers	41	95
Survey population		16 722	328 554
Coverage after exclusions (%)		99.76	99.97

## Sample Design

**Sample allocation:** Allocation was manually fixed: private schools (43), public technical schools (57), public general schools (100). Allocation for the field trial was concentrated in strata around Mexico: Distrito Federal (9), Hidalgo (13), Estado de México (15), Morelos (17) and Puebla (21).

**Sample sizes:** Thirty schools for the field trial; 200 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size.

**Measure of size:** Number of ISCED level 2 teachers in schools.

**Explicit stratification:** Organised by school funding with two levels (public, private) and, within public school strata, by school type with two levels (general, technical). Also organised by region with two levels (states around Mexico, other states) because the field trial sample was taken from states around Mexico.

**Implicit stratification:** Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public, general, states around Mexico	32	0	31	1	0	0
Public, general, other states	68	0	60	3	2	3
Public, technical, states around Mexico	12	0	11	0	1	0
Public, technical, other states	45	0	37	3	1	4
Private, states around Mexico	14	0	14	0	0	0
Private, other states	29	0	28	1	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>181</b>	<b>8</b>	<b>4</b>	<b>7</b>

## Data Source

Data came from information held by the Ministry of Education (Secretaría de Educación Pública SEP). At the start of each school year, school principals provide the ministry with full information on the conditions in which their respective schools are operating, as well on the number of students per grade and the number of teachers in their respective schools.

## Netherlands

ISCED level 2 education in the Netherlands consists of grades 1 through 3 for secondary school general education, and grades 1 through 4 for secondary school vocational education.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 students
Target population		538	722 969
Survey population		538	722 969
Coverage after exclusions (%)			100

## Sample Design

<b>Sample allocation:</b>	Not applicable.
<b>Sample sizes:</b>	Fifteen schools for the field trial; 150 schools for the main survey.
<b>Method of sample selection:</b>	Systematic random sample. Fifteen schools were selected for the field trial and 150 were initially selected for the main survey. Because some schools have more than one location, one location was randomly selected for each of the 165 sampled schools.
<b>Measure of size:</b>	Number of ISCED level 2 students.
<b>Explicit stratification:</b>	Not used.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
All	150	4	77	19	20	30
National Schools	45	0	45	0	0	0
<b>Total</b>	<b>205</b>	<b>4</b>	<b>122</b>	<b>19</b>	<b>20</b>	<b>40</b>

## Data Source

The source of information used to create the school sampling frame came from the Dutch Ministry of Education, Culture and Science ([https://duo.nl/open\\_onderwijsdata/](https://duo.nl/open_onderwijsdata/)).

## New Zealand

ISCED level 2 education in New Zealand is comprised of years 7, 8, 9 and 10. Years 7 and 8 are considered part of primary schooling, while years 9 and 10 are considered part of secondary schooling.

Coverage and Exclusions			ISCED level 2 schools	ISCED level 2 students
Target population			1 696	
Exclusions:	National correspondence school (see additional notes).		1	
Survey population			1 695	
Coverage after exclusions (%)			99.94	

## Sample Design

**Sample allocation:** Sample allocation for the stratum “1 to 4” was proportional to the number of students in years 7 to 10 available, with the minimum sample size per stratum adjusted to four. Sample allocation for the stratum “5 to 17” was based on the distribution of teachers estimated from the 2013 survey data. Two hundred schools were sampled from these strata.

**Sample sizes:** Thirty schools for the field trial; 234 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to years 7 to 10 student numbers for strata 1 to 10 and 17 and proportional to teacher head count for strata 11 to 16. Due to lack of schools in strata 10, 13 and 16, simple random sampling was carried out.

**Measure of size:** Number of ISCED level 2 students in schools for strata 1 to 10 and 17 and number of teachers for strata 11 to 16.

**Explicit stratification:** Organised by type of schools with six levels (independent, primary, primary and composite, intermediate, composite, secondary), size with two levels (fewer than four teachers, more than four teachers) and decile group with three levels (low, middle, high). These variables created 17 strata in total (see table for final explicit strata).

**Implicit stratification:** Organised by “Māori language immersion school” and “not Māori immersion school”, except for strata 4, 6, 10 and 17 where there is no implicit stratification

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
1: Independent school, fewer than four teachers	4	1	0	1	0	2
2: Primary and composite schools, fewer than four teachers, low decile	9	0	6	3	0	0
3: Primary and composite schools, fewer than four teachers, middle decile	14	0	12	1	1	0
4: Primary and composite schools, more than four teachers, high decile	7	0	4	2	0	1

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
5: Primary school, more than four teachers, low decile	4	0	2	2	0	0
6: Primary school, more than four teachers, middle decile	4	0	2	1	1	0
7: Primary school, more than four teachers, high decile	4	0	2	2	0	0
8: Composite school, more than four teachers, low decile	6	0	3	0	0	3
9: Composite school, more than four teachers, middle decile	4	0	4	0	0	0
10: Composite school, more than four teachers, high decile	4	0	1	1	0	2
11: Intermediate school, low decile	4	0	2	1	0	1
12: Intermediate school, middle decile	14	0	10	1	0	3
13: Intermediate school, high decile	8	0	6	0	0	2
14: Secondary school, low decile	30	1	15	5	0	9
15: Secondary school, middle decile	56	0	35	11	0	10
16: Secondary school, high decile	48	0	32	2	0	14
17: Independent school, more than four teachers	14	0	11	2	0	1
<b>Total</b>	<b>234</b>	<b>2</b>	<b>148</b>	<b>35</b>	<b>2</b>	<b>47</b>

#### **Data Source**

Data were sourced from the Centre of Information Technologies in Education's education management information system database and pertain to school year 2015/16.

## Norway

ISCED level 2 education in Norway corresponds to lower secondary education and covers grades 8 to 10.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		1 154	23 542
Exclusions:	Very small schools (fewer than three teachers)	68	168
	Sami schools	5	48
	International schools	15	216
	International schools where the language of instruction is French	2	31
Survey population		1 064	23 079
Coverage after exclusions (%)		92.2	98.03

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers within school type.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type with two levels (ISCED 2 only, ISCED 1 and 2) and by municipality size (defined by the number of schools in the municipality) with two levels (fewer than six schools, more than six schools).
<b>Implicit stratification:</b>	Organised by municipality.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 2 only, municipality, fewer than six schools	74	0	58	11	2	3
ISCED level 2 only, municipality, more than six schools	57	0	44	10	0	3
ISCED levels 2 and 1, municipality, fewer than six schools	46	0	35	5	1	5
ISCED levels 2 and 1, municipality, more than six schools	23	0	17	1	1	4
<b>Total</b>	<b>200</b>	<b>0</b>	<b>154</b>	<b>27</b>	<b>4</b>	<b>15</b>

## Data Sources

Data for the sampling frame were based on national school statistics. A list of schools provided by the Norwegian Directorate for Education and Training was used to identify schools for the sampling frame and the schools that needed to be excluded from it.

## Portugal

ISCED level 2 education in Portugal encompasses grades 7 to 9.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		1 273	36 912
Exclusions:	Schools with non-Portuguese curricula	16	299
Survey population		1 257	36 613
Coverage after exclusions (%)		98.74	99.19

## Sample Design

<b>Sample allocation:</b>	Proportional to the square-root of the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size was used to select the samples for ISCED level 2. Overlap control was used to minimise the probability of selecting schools for the ISCED level 3 sample that had already been sampled for ISCED level 2. The approach used to minimise the overlap was developed by Chowdhury, Chu, and Kaufman (2000).
<b>Measure of size:</b>	Square-root of number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by region (Alentejo, Algarve, Centro, Lisboa, Norte) and by ISCED level and type of funding, resulting in three strata: ISCED level 2, regular public; ISCED levels 2 and 3, regular public; ISCED levels 2 and 3, regular private.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Norte, ISCED level 2 only, public	34	0	34	0	0	0
Centro, ISCED level 2 only, public	22	0	22	0	0	0
Lisboa, ISCED level 2 only, public	24	0	23	1	0	0
Alentejo, ISCED level 2 only, public	10	0	10	0	0	0
Algarve, ISCED level 2 only, public	8	0	8	0	0	0
All regions, ISCED level 2 only, private	10	0	10	0	0	0
Norte, ISCED levels 2 and 3, public	30	0	30	0	0	0
Centro, ISCED levels 2 and 3, public	18	0	17	1	0	0



<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Lisboa, ISCED levels 2 and 3, public	18	0	17	1	0	0
Alentejo and Algarve, ISCED levels 2 and 3, public	10	0	10	0	0	0
All regions, ISCED levels 2 and 3, private	16	0	14	2	0	0
<b>Total</b>	<b>200</b>	<b>0</b>	<b>195</b>	<b>5</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were drawn from the official statistics database on formal education for school year 2014/15. The database includes information on schools, children enrolled in pre-primary education, students enrolled in primary and secondary education, and human resources (teachers and other school staff).

## Romania

ISCED level 2 education in Romania encompasses lower secondary education, which includes grades 5 to 8.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 students
Target population		4 776	
Exclusions:	Very small schools (fewer than 25 students at ISCED level 2)	88	
Survey population		4 688	
Coverage after exclusions (%)		98.16	

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Organised by location with two levels (urban area, rural area).
<b>Implicit stratification:</b>	Organised by school type with two levels (public, private).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Urban	104	1	103	0	0	0
Rural	96	0	96	0	0	0
<b>Total</b>	<b>200</b>	<b>1</b>	<b>199</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Data Source

Data were taken from a list of information on ISCED level 2 schools provided by the Ministry of Education. Information included school identifier, name of school, number of students for each grade, type of funding, and region.

## Russian Federation

ISCED level 2 education in Russia includes grades 5 to 9.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		41 893	760 196
Exclusions:	Crimean schools	621	12 462
	Moscow	733	41 541
Survey population		40 539	706 193
Coverage after exclusions (%)		96.77	92.9

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The approach used to minimise the probability of sampling overlap was developed by Chowdhury, Chu, and Kaufman (2000).
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by region (see table), location with two levels (urban, rural) and type of school with two levels (within-depth study, usual).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Irkutsk region	12	0	12	0	0	0
Krasnodar region	22	0	22	0	0	0
Moscow region	28	0	28	0	0	0
Murmansk region	4	0	3	1	0	0
Nizhny Novgorod region	14	0	14	0	0	0
Sakhalin region	4	0	4	0	0	0
St. Petersburg	20	0	19	1	0	0
Sverdlovsk region	18	0	18	0	0	0
Tambov region	6	0	6	0	0	0
The Republic of Dagestan	26	0	26	0	0	0
The Republic of Komi	6	0	6	0	0	0
The Republic of Tatarstan	20	0	20	0	0	0
Udmurt Republic	10	0	10	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Voronezh region	10	0	10	0	0	0
National school stratum	30	0	30	0	0	0
<b>Total</b>	<b>230</b>	<b>0</b>	<b>228</b>	<b>2</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were provided by the Federal State Statistics Service.

## Saudi Arabia

ISCED level 2 education in Saudi Arabia includes grades 7, 8 and 9 and typically caters to students 13 to 15 years of age.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		8 105	120 109
Exclusions:	Schools in the Najran and Jazan regions	767	9 028
	Private schools	951	11 075
	Schools with fewer than four teachers	121	240
Survey population		6 266	99 766
Coverage after exclusions (%)		77.31	83.06

Note: Due to war, schools in the Jazan and Najran regions were excluded from the sample, as were private schools because their system of education differs from the system for schools in the public sector.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Twenty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by gender (female and male) and region with 13 levels (Albahah, Asir, Eastern, Hail, Jazan, Jouf, Madina, Makkah, Najran, North Border, Qassim, Riyadh and Tabuk).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Female, Albahah	4	0	4	0	0	0
Female, Asir	8	0	8	0	0	0
Female, Eastern	12	0	11	0	0	1
Female, Hail	4	0	4	0	0	0
Female, Jouf	4	0	3	0	0	1
Female, Madina	8	0	8	0	0	0
Female, Makkah	24	1	20	0	0	3
Female, North Border	4	0	4	0	0	0
Female, Qassim	8	0	7	0	0	1
Female, Riyadh	24	0	23	0	0	1
Female, Tabuk	4	0	4	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Male, Albahah	4	0	3	0	0	1
Male, Asir	8	0	8	0	0	0
Male, Eastern	12	0	10	0	0	2
Male, Hail	4	0	3	0	0	1
Male, Jouf	4	0	4	0	0	0
Male, Madina	12	0	12	0	0	0
Male, Makkah	20	0	15	0	0	5
Male, North Border	4	0	4	0	0	0
Male, Qassim	8	0	8	0	0	0
Male, Riyadh	16	0	13	0	0	3
Male, Tabuk	4	0	3	0	0	1
<b>Total</b>	<b>200</b>	<b>1</b>	<b>179</b>	<b>0</b>	<b>0</b>	<b>20</b>

#### **Data Sources**

Data were provided by the Saudi Ministry of Education's data centre and pertain to the 2017 school year.

## Shanghai (China)

ISCED level 2 education in Shanghai China includes grades 6, 7, 8 and 9.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		662	41 705
Exclusions:	Special schools for students with behaviour problems and also for juvenile delinquents	12	340
Survey population		650	41 365
Coverage after exclusions (%)		98.19	99.18

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by school location with two levels (urban, suburban) and funding with two levels (public, private).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Urban, public	68	1	67	0	0	0
Urban, private	12	0	12	0	0	0
Suburban, public	100	0	100	0	0	0
Suburban, private	20	1	19	0	0	0
<b>Total</b>	<b>200</b>	<b>2</b>	<b>198</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Data Source

Data were taken from the official website of the Shanghai Municipal Education Commission:  
<http://www.shmec.gov.cn/html/xxgk/201605/303142016002.php>

## Singapore

ISCED level 2 education in Singapore covers lower secondary education (grades 7 to 8).

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		197	12 285
Exclusions:	Schools in which the language of instruction is not English	4	200
Survey population		193	12 085
Coverage after exclusions (%)		97.97	98.37

Note: Schools where the language of instruction is other than English were excluded from the sample because the TALIS survey is conducted in English in Singapore.

### Sample Design

<b>Sample allocation:</b>	Census, therefore not applicable.
<b>Sample sizes:</b>	Fifteen public schools for the field trial; census of public schools (157 in total) and 12 private schools for the main survey.
<b>Method of sample selection:</b>	Census.
<b>Measure of size:</b>	Not applicable.
<b>Explicit stratification:</b>	Type of funding with two levels (public, private).
<b>Implicit stratification:</b>	Not applicable.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public	157	0	157	0	0	0
Private	12	0	9	2	1	0
<b>Total</b>	<b>169</b>	<b>0</b>	<b>166</b>	<b>2</b>	<b>1</b>	<b>0</b>

### Data Source

Data for the sampling frame came from the Ministry of Education's database containing information provided by schools.



## Slovak Republic

ISCED level 2 education in the Slovak Republic is offered in elementary and grammar schools. It covers grades 5 to 9 in elementary schools and grades 1 to 4 in grammar schools.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		1 591	24 841
Exclusions:	Schools with fewer than three ISCED level 2 teachers	10	20
Survey population		1 581	24 821
Coverage after exclusions (%)		99.37	99.92

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type with two levels (primary, grammar) and urbanisation with two levels (urban, rural).
<b>Implicit stratification:</b>	Organised by region with eight levels (Bratislavský kraj, Trnavský kraj, Trenčiansky kraj, Nitriansky kraj, Žilinský kraj, Banskobystrický kraj, Prešovský kraj, Prešovský kraj) and founder with two levels (public, other).

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Primary school, urban	95	0	79	6	0	10
Primary school, rural	68	0	55	6	0	7
Grammar school, urban	37	1	30	0	0	6
<b>Total</b>	<b>200</b>	<b>1</b>	<b>164</b>	<b>12</b>	<b>0</b>	<b>23</b>

## Data Source

Data were provided by the Slovak Centre of Scientific and Technical Information (Centrum Vedecko-Technických Informácií SR - CVTI SR). The CVTI SR is the directly-managed organisation (public body) of the Ministry of Education, Science, Research and Sport of the Slovak Republic: <http://www.cvtisr.sk/>

## Slovenia

ISCED level 2 education in Slovenia comprises lower secondary education, which includes grades 7 to 9. Most students begin their lower secondary education at age 12. This level of education is the third educational cycle of Slovenia's compulsory basic education, and it is organised as a nine-year single structure encompassing primary and lower secondary education. Schools offering basic education are known as basic schools.

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		451	9 090
Exclusions:	Italian basic schools in an ethnically mixed area of the country	3	42
Survey population		448	9 048
Coverage after exclusions (%)		99.33	99.54

Note: The language of instruction in the Italian basic schools is Italian. The teachers in these schools can therefore be identified as a separate group of Slovenian teachers because the Italian language version of the TALIS questionnaire has to be translated for them.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 150 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Not used.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
All levels	150	0	124	8	0	18
<b>Total</b>	<b>150</b>	<b>0</b>	<b>124</b>	<b>8</b>	<b>0</b>	<b>18</b>

## Data Source

Data were obtained from the Ministry of Education, Science and Sport and pertain to school year 2015/16.

Added 29/04/20

### South Africa

ISCED level 2 in South Africa incorporates Grades 8 and 9, and it corresponds to lower grades in secondary schools. ISCED level 3, which refers to our Grades 10 -12 are also part of our secondary schools. Grades 1-7 form part of the primary education level therefore ISCED Level 1. .

Coverage and exclusions			
		ISCED Level 2 Schools	ISCED Level 2 Teachers
Target population		9 464	20 0529
Exclusions:			
Survey population		9 464	20 0529
Coverage after exclusions (%)		100	100

### Sample design

- Sample allocation:** Proportional to the number of ISCED level 2 teachers.
- Sample sizes:** 20 schools selected for the Field and 200 schools for the main survey.
- Method of sample selection:** Systematic sample proportional to school size.
- Measure of size:** Count of ISCED level 2 teachers.
- Explicit stratification:** Explicit stratification was organised by province (9) and sector (Public, Independent).
- Implicit stratification:** None

School Participation Status through the teacher questionnaires:						
----- Participating Schools -----						
Explicit Strata	Total Sampled schools	Ineligible schools	Sampled schools	1st replacement	2nd replacement	Non Participating schools
EC - INDEPENDENT	4	0	4	0	0	0
EC - PUBLIC	28	4	21	0	0	3
FS - INDEPENDENT	4	1	3	0	0	0
FS - PUBLIC	8	0	7	0	0	1
GP - INDEPENDENT	12	0	10	1	0	1
GP - PUBLIC	24	1	22	0	0	1
KZ - INDEPENDENT	4	1	3	0	0	0
KZ - PUBLIC	34	2	32	0	0	0
LP - INDEPENDENT	4	1	3	0	0	0
LP - PUBLIC	22	5	16	0	0	1
MP - INDEPENDENT	4	0	4	0	0	0
MP - PUBLIC	14	0	14	0	0	0
NC - INDEPENDENT	4	1	3	0	0	0
NC - PUBLIC	4	0	3	0	0	1
NW - INDEPENDENT	4	1	3	0	0	0
NW - PUBLIC	10	0	7	0	0	3
WC - INDEPENDENT	4	0	4	0	0	0

School Participation Status through the teacher questionnaires:						
----- Participating Schools -----						
Explicit Strata	Total Sampled schools	Ineligible schools	Sampled schools	1st replacement	2nd replacement	Non Participating schools
WC - PUBLIC	12	0	10	0	0	2
<b>Total</b>	<b>200</b>	<b>17</b>	<b>169</b>	<b>1</b>	<b>0</b>	<b>13</b>

**Data sources**

2016 Annual School Survey

## Spain

The education system in Spain is the responsibility of each individual autonomous community. There are 18 of these communities. ISCED level 2 education consists of four grades, from first compulsory secondary to fourth compulsory secondary. Compulsory secondary education caters to students 12 to 16 years of age.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		6 954	200 193
Exclusions:	Small schools (fewer than three teachers)	43	59
	Schools that are geographically remote	2	42
Survey population		6 909	200 092
Coverage after exclusions (%)		99.35	99.95

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers, then adjusted through overlap control to produce a sample of 50 schools from Madrid, Catalonia, La Rioja, Castile and León and Valencia for the data collection. Remaining schools were selected from other regions. For the field trial, six schools were selected from Catalonia, 12 from Madrid, six from a pre-selected group of 12 schools from Galicia and six from a pre-selected group of eight schools from Basque Country.
<b>Sample sizes:</b>	Thirty schools were selected for the field trial. They were selected after the sample had been selected for the ISCED level 2 main survey and the TALIS Video Study. Schools which overlapped in the two samples were removed from the field trial sampling frame. Three hundred and fifty-nine schools were selected for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size for the ISCED level 2 main survey (by oversampling in Cantabria, Castile and León, Catalunya, Community of Madrid, Valencia, La Rioja and Madrid) and the TALIS Video Study (only in Madrid). All schools selected for the main survey and TALIS Video Study were then removed from the sampling frame used for the ISCED level 2 field trial. Field trial samples were taken from selected regions, namely Catalonia, Community of Madrid, Galicia and Basque Country. Initially in February 2017, oversampling was carried out for Madrid, Catalonia, Castile and León, La Rioja and Valencia, resulting in 50 sampled schools for each region. To accommodate the sample for PISA, the La Rioja sample was reduced to 30 in May 2017. Because Cantabria decided to oversample for ISCED level 1 and ISCED level 2 in May of 2017, sampling was carried out accordingly in those regions.
<b>Measure of size:</b>	Number of ISCED level 2 teachers.
<b>Explicit stratification:</b>	Organised by autonomous community with 18 levels (see table). The field trial samples were selected from Catalonia, Community of Madrid, Galicia and selected Basque Country schools.
<b>Implicit stratification:</b>	Organised by school type with two levels (public, private).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Andalusia	22	0	22	0	0	0
Aragón	6	0	6	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Asturias	45	0	44	1	0	0
Canary Islands	9	0	9	0	0	0
Cantabria	36	0	36	0	0	0
Castile and León	50	0	50	0	0	0
Castile-La Mancha	10	0	10	0	0	0
Catalonia	50	0	49	1	0	0
Ceuta and Melilla	4	0	4	0	0	0
Community of Madrid, public	20	0	20	0	0	0
Community of Madrid, others	30	0	30	0	0	0
Community of Valencia	50	0	50	0	0	0
Extremadura	6	0	6	0	0	0
Galicia	12	0	12	0	0	0
Balearic Islands	5	0	5	0	0	0
La Rioja	30	0	30	0	0	0
Murcia	7	0	7	0	0	0
Navarra	5	0	5	0	0	0
Basque Country	2	0	2	0	0	0
<b>Total</b>	<b>399</b>	<b>0</b>	<b>397</b>	<b>2</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data came from information provided by the Autonomous Community for school year 2015/16

## Sweden

ISCED level 2 education in Sweden covers grades 7 to 9 and is part of Sweden's nine years of compulsory education, which children begin at age seven.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		1 768	309 403
Exclusions:	Small schools (fewer than six students at ISCED level 2)	49	126
	International schools not following the Swedish curriculum.	11	
Survey population		1 708	309 277
Coverage after exclusions (%)		96.61	99.96

Note: The number of ISCED level 2 students for the excluded international schools was not available and therefore could not be included in the total target population.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED levels 1 and 2 were selected together.
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	The first explicit stratification variable was organised by ISCED level with three levels (ISCED level 1 only, ISCED level 2 only, ISCED levels 2 and 1). The second explicit stratification variable was organised by type of funding with two levels (private, public).
<b>Implicit stratification:</b>	Organised by region with four levels (metropolitan city, large city, manufacturing city, other city). Two regional levels (manufacturing city, other city) were collapsed into one for the private funding explicit stratum.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 2 only, private	8	0	7	0	0	1
ISCED level 2 only, public	70	2	65	2	0	1
ISCED levels 1 and 2, private	34	1	27	2	0	4
ISCED levels 1 and 2, public	88	5	74	3	0	6
<b>Total</b>	<b>200</b>	<b>8</b>	<b>173</b>	<b>7</b>	<b>0</b>	<b>12</b>

## Data Source

Data used drew on national statistics provided by the Swedish National Agency of Education. The agency publishes the statistics for each school year during spring. The statistics used for the sampling frame were those for school year 2015/16.

## Chinese Taipei

ISCED level 2 in Chinese Taipei corresponds to the six grades of elementary school.

Coverage and Exclusions		ISCED level 2 schools	Measure of size in schools
Target population		939	59 882
Exclusions:	Schools with fewer than three teachers	7	11
Survey population		932	59 871
Coverage after exclusions (%)		99.25	99.98

## Sample Design

**Sample allocation:** Proportional to the square-root of the number of ISCED level 2 teachers.

**Sample sizes:** Thirty schools for the field trial; 203 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to square-root of school size. The samples for ISCED levels 2 and 3 were selected first, after which overlap control was used to select the ISCED level 1 sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED levels 2 and 3.

**Measure of size:** Square-root of number of ISCED level 2 teachers in schools.

**Explicit stratification:** Organised by school type (public, private), township (city, town, village) and school-type 3 (academic, vocational). ISCED levels 2 and 3 were executed at the same time. The strata for ISCED level 2 included ISCED level 2 only and ISCED levels 2 and 3, while the strata for ISCED level 3 included ISCED level 3 only and ISCED levels 3 and 2.

**Implicit stratification:** Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
ISCED level 2 only, public school, city, academic	64	0	63	0	0	1
ISCED level 2 only, public school, town, academic	59	0	59	0	0	0
ISCED level 2 only, public school, village, academic	36	0	36	0	0	0
ISCED level 2 only, private school, city, academic	2	1	1	0	0	0
ISCED level 2 only, private school, town, academic	2	0	2	0	0	0



<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 2 only, private school, village, academic	2	0	2	0	0	0
ISCED levels 3 and 2, public school, city, academic	11	0	10	0	0	1
ISCED levels 3 and 2, public school, town, academic	7	0	7	0	0	0
ISCED levels 3 and 2, public school, village, academic	3	0	3	0	0	0
ISCED levels 3 and 2, private school, city, academic	10	0	10	0	0	0
ISCED levels 3 and 2, private school, town, academic	5	0	5	0	0	0
ISCED levels 3 and 2, private school, village, academic	2	0	2	0	0	0
<b>Total</b>	<b>203</b>	<b>1</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>2</b>

#### **Data Source**

Data were sourced from the Department of Statistics of the Ministry of Education.

## Turkey

ISCED level 2 education in Turkey encompasses grades 5 to 8.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 teachers
Target population		16 228	310 932
Survey population		16 228	310 932
Coverage after exclusions (%)		100	100

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 teachers.
<b>Sample sizes:</b>	Thirty schools for the ISCED level 2 field trial; 200 schools for the main survey. A sample of 30 schools was selected for the TALIS-PISA link field trial.
<b>Method of sample selection:</b>	Systematic sample proportional to school size for all samples.
<b>Measure of size:</b>	Number of ISCED level 2 teachers in schools.
<b>Explicit stratification:</b>	Organised by school type with two levels (state, private). Turkey's Nomenclature of Territorial Units for Statistics 1 (TR NUTS 1) was then used to stratify the state schools into 12 regions (see table). Private schools were not divided into regions (i.e., no region stratum).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total Sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-Participating schools
State, İstanbul	24	0	23	0	0	1
State, Western Marmara	8	0	8	0	0	0
State, Ege	24	0	24	0	0	0
State, Eastern Marmara	16	0	15	0	0	1
State, Western Anatolia	20	1	19	0	0	0
State, Akdeniz	24	0	24	0	0	0
State, Middle Anatolia	8	0	8	0	0	0
State, Western Black Sea	12	1	11	0	0	0
State, Eastern Black Sea	8	0	8	0	0	0
State, North-East Anatolia	8	0	8	0	0	0
State, Middle-East Anatolia	12	0	12	0	0	0
State, South-Eastern Anatolia	24	0	24	0	0	0
Private, no region	12	0	12	0	0	0
<b>Total</b>	<b>200</b>	<b>2</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>2</b>

## Data Source

The data used for the sampling came from the Ministry of National Education.

## United Arab Emirates

ISCED level 2 education in the United Arab Emirates (UAE) comprises the lower secondary level of schooling (grades 6 to 9, which cater to students 12 to 14 years of age).

Coverage and Exclusions		ISCED level 2 schools	ISCED level 2 teachers
Target population		577	17 541
Exclusions:	Private schools	14	350
Survey population		563	17 191
Coverage after exclusions (%)		97.57	98

Note: Of the total 563 sampled schools, 157 were from Dubai, 280 were from Abu Dhabi and 126 were from the rest of the UAE.

## Sample Design

**Sample allocation:** Census, therefore not applicable.

**Sample sizes:** The 36 largest schools (12 from each region, that is, Dubai, Abu Dhabi, and the rest of the UAE) were used for the field trial. A census of 280 schools from Abu Dhabi, 157 from Dubai and 126 from the rest of the UAE formed the sample for the main survey. Note that although each complement of 12 largest schools was selected for both the field trial and the main survey, the groups of teachers selected for the field trial and the main survey differed.

**Method of sample selection:** Census.

**Measure of size:** Number of ISCED level 2 level teachers provided in the sampling frame.

**Explicit stratification:** Organised by region (Dubai, Abu Dhabi, rest of the UAE) and ISCED levels (ISCED level 2 only, ISCED levels 2 and 1, ISCED levels 2 and 3, and ISCED levels 2, 3 and 1).

**Implicit stratification:** Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			
			Sampled schools	First replacement	Second replacement	Non-participating schools
Abu Dhabi, ISCED level 2 only	40	1	39	0	0	0
Abu Dhabi, ISCED levels 2 and 3	36	3	33	0	0	0
Abu Dhabi, ISCED levels 2 and 1	50	8	42	0	0	0
Abu Dhabi, ISCED levels 2, 3 and 1	154	2	152	0	0	0
Dubai, ISCED level 2 only	14	2	12	0	0	0
Dubai, ISCED levels 2 and 3	14	0	14	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Dubai, ISCED levels 2 and 1	44	5	39	0	0	0
Dubai, ISCED levels 2, 3 and 1	85	1	84	0	0	0
Other UAE, ISCED level 2 only	55	7	48	0	0	0
Other UAE, ISCED levels 2 and 3	35	1	34	0	0	0
Other UAE, ISCED levels 2 and 1	15	10	5	0	0	0
Other UAE, ISCED levels 2, 3 and 1	21	2	19	0	0	0
<b>Total</b>	<b>563</b>	<b>42</b>	<b>521</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were sourced from the school information system and private-school register.

Updated 28/11/19

## United States

ISCED level 1 education in the United States typically encompasses grades 1 to 6, ISCED 2 encompasses grades 7 to 9, and ISCED 3 encompasses grades 10 to 12. However, the grade spans vary widely by school district and area of the country so schools do not typically follow ISCED levels. The most common structure is grades 1 to 5, 6 to 8 and 9 to 12, so the latter two have a mix of ISCED levels 2 and 3 grades. Smaller rural districts have more grades per school, such as 1 to 8 and 9 to 12; 1 to 6 and 7 to 12; or even 1 to 12.

Coverage and Exclusions			
		ISCED level 2 schools	ISCED level 2 students
Target population		63 795	12 071 497
Exclusions:	Schools in detention centres, hospitals, and treatment centres	569	10 353
Survey population		63 226	12 061 144
Coverage after exclusions (%)		99.11	99.91

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 2 students.
<b>Sample sizes:</b>	Seventy schools were selected for the field trial (from seven states – Arizona, Michigan, Missouri, North Carolina, Oregon, Pennsylvania and West Virginia) in October 2016. Modified stratification with overlap control was used to sample the 220 schools for the main survey in June of 2017.
<b>Method of sample selection:</b>	Systematic proportional to size. Seventy schools were selected for the field trial: 220 schools for the main survey. Overlap control was used with the field trial and the National Teacher and Principal Survey (NTPS) to minimise overlap of sampled schools. The approach used to minimise the overlap was developed by Chowdhury, Chu, and Kaufman (2000).
<b>Measure of size:</b>	Number of ISCED level 2 students in schools.
<b>Explicit stratification:</b>	Stratification for the field trial was organised by states with seven levels and by funding with two levels (public, private). Stratification for the main survey was organised by funding with two levels and grade stratum with three levels (gradeSt1, gradeSt2, gradeSt3). The grade levels were collapsed in those instances where there were too few schools.
<b>Implicit stratification:</b>	Implicit stratification was not used for the field trial. Stratification for the main survey was organised by census region with four levels (northeast, midwest, south, west), by location with three levels (city, suburb, town/rural), by min_stat with two levels (high, low – below 15% non-white students) and by state.

## School Participation Status

Explicit Strata	----- Participating Schools -----					
	Total Sampled schools	Ineligible schools	Sampled schools	1st replacement	2nd replacement	Non Participating schools
Public - GradeSt1	104	1	60	14	7	22
Public - GradeSt2	58	3	30	4	5	16
Public - GradeSt3	40	2	20	6	3	9
Private - GradeSt1-2	4	0	3	0	1	0
Private - GradeSt3	14	0	10	1	0	3
<b>Total</b>	<b>220</b>	<b>6</b>	<b>123</b>	<b>25</b>	<b>16</b>	<b>50</b>

Last update: September 28, 2018

## Data Sources

Lack of a good source for the number of ISCED 2 teachers meant having to estimate the number of ISCED 2 students (grades 7, 8 and 9) as a measure of size. The school frame for the TALIS 2018 field trial national sample was developed from the 2018 National Assessment of Educational Progress (NAEP) school frame.

**Viet Nam**

ISCED level 2 education in Viet Nam includes grade 6 to 9.

<b>Coverage and Exclusions</b>			
		<b>ISCED level 2 schools</b>	<b>ISCED level 2 teachers</b>
Target population		10 843	303 171
Exclusions:	Non-Vietnamese international schools	22	153
Survey population		10 821	303 018
Coverage after exclusions (%)		99.8	99.95

**Sample Design**

**Sample allocation:** Proportional to the number of ISCED level 2 teachers.

**Sample sizes:** Thirty schools for the field trial; 200 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to school size. The samples for ISCED levels 2 and 3 were selected first, after which overlap control was used to select the ISCED levels 1 samples. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED levels 2 and 3.

**Measure of size:** Number of ISCED level 2 teachers in schools.

**Explicit stratification:** Organised by zone with three levels (central, northern, southern), region with six levels (see table) and type of funding with two levels (public, private). Note that ISCED levels 2 and 3 were executed at the same time, which means that the strata for ISCED level 2 include ISCED level 2 only and ISCED levels 2 and 3, while the strata for ISCED level 3 include ISCED level 3 only and ISCED levels 3 and 2.

**Implicit stratification:** Organised by location name with three levels (urban, rural, remote).

<b>School Participation Status</b>						
----- Participating Schools -----						
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 2 only, central, all, public	56	2	54	0	0	0
ISCED level 2 only, central, all, private	4	0	4	0	0	0
ISCED level 2 only, northern, all, public	64	0	64	0	0	0
ISCED level 2 only, northern, all, private	4	1	3	0	0	0
ISCED level 2 only, southern, all, public	48	0	48	0	0	0
ISCED level 2 only, southern, all, private	4	0	4	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED levels 3 and 2, central, all, all	4	0	4	0	0	0
ISCED levels 3 and 2, northern, all, public	4	1	3	0	0	0
ISCED levels 3 and 2, northern, all, private	4	0	4	0	0	0
ISCED levels 3 and 2, southern, all, public	4	0	4	0	0	0
ISCED levels 3 and 2, southern, all, private	4	0	4	0	0	0
<b>Total</b>	<b>200</b>	<b>4</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were provided by the General Statistics Office of Viet Nam.



## Characteristics of national samples ISCED level 3

### Alberta (Canada)

ISCED level 3 education in Alberta, Canada, corresponds to grades 10 to 12.

Coverage and Exclusions		ISCED level 3 schools	ISCED level 3 students
Target population		688	162 272
Exclusions:	Band-operated schools. These schools operate on First Nations' reserves and are the responsibility of the federal government rather than of Alberta Education	37	2001
	Very small schools (fewer than three students in grades 10 to 12)	45	72
Total exclusions		82	2 073
Survey population		606	160 199
Coverage after exclusions (%)		88.08	98.72

### Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 3 students, then adjusted to have a census for Francophone schools.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	A systematic random sample was used for Francophone and charter schools, while a systematic sample proportional to school size with overlap control was used for the ICILS and the ISCED level 2 public, separate, and private schools. The same five schools were sampled for ISCED levels 2 and 3 "ISCED level 2 and ISCED level 3 Francophone" stratum. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 3 that had already been selected for the ICILS sample or the ISCED level 2 sample.
<b>Measure of size:</b>	Number of ISCED level 3 students in schools.
<b>Explicit stratification:</b>	Organised by type of school authority with five levels (public, separate, Francophone, charter, private).
<b>Implicit stratification:</b>	Organised by student performance with four levels (1. low: mean - 1 standard deviation; 2. medium: mean - 1 standard deviation to mean + 1 standard deviation; 3. high mean + 1 standard deviation; 4. no score. Student performance in ISCED level 3 was calculated using average diploma scores (obtained by combining the results of all diploma examinations completed by students in each school). Implicit strata were not used for the explicit Francophone and charter strata.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Public	129	5	54	9	1	60

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Separate	28	0	18	2	0	8
Francophone	20	1	15	0	0	4
Charter	2	0	2	0	0	0
Private	20	0	7	2	2	9
<b>Total</b>	<b>199</b>	<b>6</b>	<b>96</b>	<b>13</b>	<b>3</b>	<b>81</b>

#### **Data Source**

Data for the school sampling frame came from Alberta Education's Corporate Data Warehouse and pertained to school year 2010/11.

## Brazil

ISCED level 3 education in Brazil covers the final grades/years of fundamental education (in Portuguese, *séries/anos finais do ensino fundamental*). Of three years' duration, this level of education encompasses years 10 to 13 of basic education.

Coverage and Exclusions		ISCED level 3 schools	ISCED level 3 teachers
Target population		28 815	643 204
Exclusions:	Schools with fewer than six teachers. Because ISCED level 3 education requires one teacher for each subject, most of these schools have just one class. The schools that fall into this category are located in very remote areas of the country. Excluding them from the survey increased Brazil's chances not only of meeting the minimum participation rate but also of decreasing the cost of the survey.	804	2682
Total exclusions		804	2 682
Survey population		28 011	640 522
Coverage after exclusions (%)		97.21	99.58

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of schools.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic proportional to sample size. Two hundred ISCED level 2 schools and 200 ISCED level 3 schools were selected for the main survey, after which overlap control was used to select 30 ISCED level 2 schools and 30 ISCED level 3 schools for the field trial.
<b>Measure of size:</b>	Count of ISCED level 3 teachers in schools.
<b>Explicit stratification:</b>	Organised by type of school with two levels (ISCED level 2 only, ISCED levels 2 and 3) and by type of funding with three levels (public state, public local, private).
<b>Implicit stratification:</b>	Not used.

## School Participation Status

Explicit strata	----- Participating Schools -----					
	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED levels 2 and 3, private	80	3	62	9	2	4
ISCED levels 2 and 3, public, state	68	1	65	1	0	1
ISCED levels 2 and 3, public, local	4	1	3	0	0	0
ISCED level 3 only, public	28	0	25	2	0	1
ISCED level 3 only, private	20	3	12	3	2	0
<b>Total</b>	<b>200</b>	<b>8</b>	<b>167</b>	<b>15</b>	<b>4</b>	<b>6</b>

## Data Source

Data were obtained from the School Census on Basic Education. The census, conducted annually by federal authorities, collects information about all areas of basic education: early childhood education, elementary education, secondary education, professional education, and education for young people and adults.

## Croatia

ISCED level 3 education in Croatia encompasses several types of programme (of two, three, four or five years' duration) that are taught by subject teachers and vocational teachers.

Coverage and Exclusions		ISCED level 3 schools	Students in schools
Target population		385	160 784
Exclusions:	National minority schools (Italian, Serbian, Hungarian)	6	215
Total exclusions		6	215
Survey population		379	160 569
Coverage after exclusions (%)		98.44	99.87

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED 3 students.
<b>Sample sizes:</b>	Fifteen schools for the field trial; 150 schools for the main survey. The smaller sample sizes (i.e., under the usual 200) were a result of not enough ISCED level 3 schools.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 3 students in schools.
<b>Explicit stratification:</b>	Organised by region with six levels (Central Croatia, Eastern Croatia, Northern Croatia, Western Croatia, Southern Croatia, City of Zagreb).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Central Croatia	26	0	26	0	0	0
Eastern Croatia	27	0	27	0	0	0
Northern Croatia	15	0	15	0	0	0
Western Croatia	16	0	15	0	0	1
Southern Croatia	33	0	32	0	0	1
City of Zagreb	33	0	32	0	0	1
<b>Total</b>	<b>150</b>	<b>0</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>3</b>

Data for number of schools came from the Ministry of Education's listing, E-matica, for the 2016/17 school year. Data for number of teachers came from the Croatian Bureau of Statistics (<http://www.dzs.hr>).

## Denmark

ISCED level 3 education in Denmark consists of two educational tracks: an academic track, which typically lasts three years, but can also last two or four years; and a vocational track, which typically lasts three and a half to four and a half years.

Coverage and Exclusions		ISCED level 3 schools	ISCED level 3 students
Target population		421	262 496
Exclusions:	Small schools (fewer than 40 students and generally fewer than five teachers)	24	363
Total exclusions		24	363
Survey population		397	262 133
Coverage after exclusions (%)		94.3	99.86

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 3 students.
<b>Sample sizes:</b>	Twelve schools for the field trial; 150 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to size.
<b>Measure of size:</b>	Number of ISCED level 3 students in schools.
<b>Explicit stratification:</b>	Organised by school type with seven levels: vocational, care and health; vocational, office and trade; vocational, foods and farming; vocational, foods and farming; vocational, tech and building; academic STX and HF; academic HTX (tech) and academic HHX (business).
<b>Implicit stratification:</b>	Organised by region with five levels (Nordjylland, Midtjylland, Syddanmark, Hovedstaden, Sjælland).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Vocational, care and health	12	2	6	0	0	4
Vocational, office and trade	18	3	8	4	0	3
Vocational, foods and farming	10	0	6	0	2	2
Vocational, tech and building	26	3	13	0	0	10
Academic, STX and HF	60	2	42	8	4	4
Academic, HTX (tech)	8	0	6	1	0	1
Academic, HHX (business)	16	1	10	1	0	4
<b>Total</b>	<b>150</b>	<b>11</b>	<b>91</b>	<b>14</b>	<b>6</b>	<b>28</b>

## Data Source

Information on number of teachers came from Statistikbanken (Statistics Denmark).

## Portugal

ISCED level 3 education in Portugal is typically of three years' duration and encompasses grades 10 to 12.

Coverage and Exclusions			
		ISCED level 3 schools	ISCED level 3 teachers
Target population		871	36 849
Exclusions:	Schools with non-Portuguese curricula	17	230
Total exclusions		17	230
Survey population		854	36 619
Coverage after exclusions (%)		98.05	99.38

## Sample Design

<b>Sample allocation:</b>	Proportional to the square-root of the number of ISCED level 3 teachers.
<b>Sample sizes:</b>	Twenty schools for the field trial; 199 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size was used for ISCED level 2, followed by overlap control for the ISCED level 3 sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 3 that had already been sampled for ISCED level 2.
<b>Measure of size:</b>	Square-root of number of ISCED level 3 teachers in schools.
<b>Explicit stratification:</b>	Organised by region with five levels (Alentejo, Algarve, Centro, Lisboa, Norte) and by type of funding with three levels (regular public, regular private, vocational).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
ISCED level 3 only, public, Norte	4	0	4	0	0	0
ISCED level 3 only, public, Centro	3	0	3	0	0	0
ISCED level 3 only, public, Lisboa	8	0	8	0	0	0
ISCED level 3 only, public, Alentejo and Algarve	4	0	4	0	0	0
ISCED level 3 only, private, all regions	4	2	2	0	0	0
ISCED level 3 only, vocational, Norte	18	0	18	0	0	0
ISCED level 3 only, vocational, Centro	12	0	11	0	0	1
ISCED level 3 only, vocational, Lisboa	10	0	9	1	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 3 only, vocational, Alentejo and Algarve	4	0	4	0	0	0
ISCED levels 2 and 3, public, Norte	41	1	40	0	0	0
ISCED levels 2 and 3, public, Centro	31	0	31	0	0	0
ISCED levels 2 and 3, public, Lisboa	26	0	26	0	0	0
ISCED levels 2 and 3, public, Alentejo and Algarve	15	0	15	0	0	0
ISCED levels 2 and 3, private, all regions	20	1	17	2	0	0
<b>Total</b>	<b>200</b>	<b>4</b>	<b>192</b>	<b>3</b>	<b>0</b>	<b>1</b>

#### **Data Source**

Data were obtained from the official statistics database on formal education and pertained to school year 2014/15. The database contains information on schools, children enrolled in pre-primary education, students enrolled in primary and secondary education, and human resources (teachers and other school staff).

## Slovenia

ISCED level 3 education in Slovenia includes several different programmes. These are (a) general upper secondary education, which involves four-year *gimnazija* programmes (grades 10 to 13) and which students typically begin at age 15; (b) upper secondary technical education, which involves four-year VET programmes (grades 10 to 13) and which students typically begin at age 15; (c) upper secondary vocational education, which involves three-year VET programmes (grades 10 to 12) and which students typically begin at age 15; (d) short vocational upper secondary education, which involves two-year VET programmes (grades 10 to 11t) and which students typically begin at age 15; and (e) vocational-technical upper secondary education, which involves two-year VET programmes (grades 13 to 14) that follow on from completion of the three-year upper secondary vocational education programme and which students typically begin at age 18.

Coverage and Exclusions		ISCED level 3 schools	Measure of size in school
Target population		153	
Exclusions:	Italian upper secondary schools	3	
Total exclusions		3	0
Survey population		150	
Coverage after exclusions (%)		98.04	

Note: The language of instruction in the Italian basic schools is Italian. The teachers in these schools can therefore be identified as a separate group of Slovenian teachers because the Italian language version of the TALIS questionnaire has to be translated for them.

## Sample Design

<b>Sample allocation:</b>	Census.
<b>Sample sizes:</b>	Nine schools, for the field trial; all schools providing ISCED level 3 education (150) for the main survey.
<b>Method of sample selection:</b>	Census for main survey. The nine largest of the schools were selected for the field trial. These schools varied in the programmes they offered and in their location.
<b>Measure of size:</b>	Lack of information on number of students or number of students per school meant that such information could not be used as the measure of size. However, because the sample was a census, 20 teachers were established as the measure of size for each school.
<b>Explicit stratification:</b>	Not used.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
All levels	150	2	119	0	0	29
<b>Total</b>	<b>150</b>	<b>2</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>29</b>

## Data Source

Data were obtained from the Ministry of Education, Science and Sport's statistical office.



## Sweden

ISCED level 3 education in Sweden includes secondary school (gymnasia) and is three years in duration. Because this level is not part of compulsory education in Sweden, it is optional for students. ISCED level 3 offers tracked programmes, which are either vocational or general in orientation.

Coverage and Exclusions		ISCED level 3 schools	ISCED level 3 students
Target population		1 296	319 310
Exclusions:	Small schools (fewer than six students at ISCED level 3)	7	21
	International schools not following the Swedish curriculum	11	
Total exclusions		18	21
Survey population		1 278	319 289
Coverage after exclusions (%)		98.61	99.99

Note: The number of ISCED level 3 students for the excluded international schools was not available and this number could therefore not be included in the total target population.

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 3 students.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Count of ISCED level 3 students in schools.
<b>Explicit stratification:</b>	Organised by type of funding with two levels (public, private).
<b>Implicit stratification:</b>	Organised by region with four levels (metropolitan city, large city, manufacturing city, other city). Two regional levels (manufacturing city, other city) were collapsed into one for the private funding explicit stratum.

School Participation Status						
	----- Participating Schools -----					
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Private	52	2	48	1	0	1
Public	148	13	127	5	0	3
<b>Total</b>	<b>200</b>	<b>15</b>	<b>175</b>	<b>6</b>	<b>0</b>	<b>4</b>

## Data Source

The source of this data was the annual national statistics for school year 2015/16 provided by the Swedish National Agency of Education. The agency publishes the data for a school year during spring.

## Chinese Taipei

ISCED level 3 in Chinese Taipei cover the grades that constitute senior high school.

Coverage and Exclusions			
		ISCED level 3 schools	Measure of size in school
Target population		505	43 905
Exclusions:	Schools with fewer than three teachers	2	3
Total exclusions		2	3
Survey population		503	43 902
Coverage after exclusions (%)		99.6	99.99

Note: All schools except the schools with fewer than three teachers were included (503 schools because of the exclusion of two small schools).

## Sample Design

**Sample allocation:** Proportional to the square-root of the number of ISCED level 3 teachers.

**Sample sizes:** Fifteen schools for the field trial; 151 schools for the main survey.

**Method of sample selection:** Systematic sample proportional to square-root of school size. The samples for ISCED levels 2 and 3 were selected first, after which overlap control was used to select the ISCED level 1 sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been sampled for ISCED levels 2 and 3.

**Measure of size:** Square-root of number of ISCED level 3 teachers in schools.

**Explicit stratification:** Organised by school type (public, private), urbanisation (city, town, village) and school-type 3 (academic, vocational). ISCED levels 2 and 3 were executed at the same time. The strata for ISCED level 2 included ISCED level 2 only and ISCED levels 2 and 3, while the strata for ISCED level 3 included ISCED level 3 only and ISCED levels 3 and 2.

**Implicit stratification:** Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 3 only, public school, city, academic	21	0	20	0	0	1
ISCED level 3 only, public school, city, vocational	15	0	15	0	0	0
ISCED level 3 only, public school, town, academic	13	0	13	0	0	0
ISCED level 3 only, public school, town, vocational	11	0	11	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 3 only, public school, village, academic	5	0	5	0	0	0
ISCED level 3 only, public school, village, vocational	8	0	7	0	0	1
ISCED level 3 only, private school, city, academic	6	0	6	0	0	0
ISCED level 3 only, private school, city, vocational	9	0	9	0	0	0
ISCED level 3 only, private school, town, academic	5	0	5	0	0	0
ISCED level 3 only, private school, town, vocational	6	0	6	0	0	0
ISCED level 3 only, private school, village, academic	2	0	2	0	0	0
ISCED level 3 only, private school, village, vocational	2	0	2	0	0	0
ISCED levels 3 and 2, public school, city, academic	13	0	12	0	0	1
ISCED levels 3 and 2, public school, town, academic	7	0	7	0	0	0
ISCED levels 3 and 2, public school, village, academic	3	0	3	0	0	0
ISCED levels 3 and 2, private school, city, academic	15	0	15	0	0	0
ISCED levels 3 and 2, private school, town, academic	8	0	8	0	0	0
ISCED levels 3 and 2, private school, village, academic	2	0	2	0	0	0
<b>Total</b>	<b>151</b>	<b>0</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>3</b>

#### **Data Source**

Data were obtained from the Ministry of Education's Department of Statistics.

**Last update: September 28, 2018**

## Turkey

ISCED 3 level education in Turkey includes grades 9 to 12.

Coverage and Exclusions			
		ISCED level 3 schools	ISCED level 3 teachers
Target population		9 520	325 692
Total exclusions		0	0
Survey population		9 520	325 692
Coverage after exclusions (%)		100	100

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 3 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 459 for the main survey. The total number for the main survey included six schools for all state school regions by type of school and eight for each private school region by type of school.
<b>Method of sample selection:</b>	Systematic sample proportional to school size.
<b>Measure of size:</b>	Number of ISCED level 3 teachers in schools.
<b>Explicit stratification:</b>	Schools were first organised by type of school with two levels (state, private) and then by region with 13 levels (12 for the state schools, no region for the private schools; see table). The second explicit stratification was organised by type of school with seven levels: science high school; social sciences high school; Anatolian high school; vocational high school; sports and fine arts high school; Anatolian IH high school; and basic high school.
<b>Implicit stratification:</b>	Not used.

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			
			Sampled schools	First replacement	Second replacement	Non-participating schools
State, Istanbul, science high school	6	0	6	0	0	0
State, Istanbul, social sciences high school	3	0	3	0	0	0
State, Istanbul, Anatolian high school	6	0	6	0	0	0
State, Istanbul, vocational high school	6	0	6	0	0	0
State, Istanbul, sports and fine arts high school	6	0	6	0	0	0
State, Istanbul, Anatolian imam hatip high school	6	0	6	0	0	0
State, Western Marmara, science high school	6	0	6	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
State, Western Marmara, social sciences high school	5	0	5	0	0	0
State, Western Marmara, Anatolian high school	6	0	6	0	0	0
State, Western Marmara, vocational high school	6	0	6	0	0	0
State, Western Marmara, sports and fine arts high school	6	0	6	0	0	0
State, Western Marmara, Anatolian imam hatip high school	6	0	6	0	0	0
State, Ege, science high school	6	0	6	0	0	0
State, Ege, social sciences high school	6	0	6	0	0	0
State, Ege, Anatolian high school	6	0	6	0	0	0
State, Ege, vocational high school	6	0	6	0	0	0
State, Ege, sports and fine arts high school	6	0	6	0	0	0
State, Ege, Anatolian imam hatip high school	6	0	6	0	0	0
State, Eastern Marmara, science high school	6	0	6	0	0	0
State, Eastern Marmara, social sciences high school	6	0	6	0	0	0
State, Eastern Marmara, Anatolian high school	6	0	6	0	0	0
State, Eastern Marmara, vocational high school	6	0	6	0	0	0
State, Eastern Marmara, sports and fine arts high school	6	0	6	0	0	0
State, Eastern Marmara, Anatolian imam hatip high school	6	0	6	0	0	0
State, Western Anatoia, science high school	6	0	6	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			
			Sampled schools	First replacement	Second replacement	Non-participating schools
State, Western Anatoia, social sciences high school	6	0	6	0	0	0
State, Western Anatoia, Anatolian high school	6	1	5	0	0	0
State, Western Anatoia, vocational high school	6	0	6	0	0	0
State, Western Anatoia, sports and fine arts high school	6	0	6	0	0	0
State, Western Anatoia, Anatolian imam hatip high school	6	0	6	0	0	0
State, Akdeniz, science high school	6	0	6	0	0	0
State, Akdeniz, social sciences high school	6	0	6	0	0	0
State, Akdeniz, Anatolian high school	6	0	6	0	0	0
State, Akdeniz, vocational high school	6	0	6	0	0	0
State, Akdeniz, sports and fine arts high school	6	0	6	0	0	0
State, Akdeniz, Anatolian imam hatip high school	6	0	6	0	0	0
State, Middle Anatoia, science high school	6	0	6	0	0	0
State, Middle Anatoia, social sciences high school	6	0	6	0	0	0
State, Middle Anatoia, Anatolian high school	6	0	6	0	0	0
State, Middle Anatoia, vocational high school	6	0	6	0	0	0
State, Middle Anatoia, sports and fine arts high school	6	0	6	0	0	0
State, Middle Anatoia, Anatolian imam hatip high school	6	0	6	0	0	0
State, Western Black Sea, science high school	6	0	6	0	0	0
State, Western Black Sea, social sciences high school	6	0	6	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			Non-participating schools
			Sampled schools	First replacement	Second replacement	
State, Western Black Sea, Anatolian high school	6	0	6	0	0	0
State, Western Black Sea, vocational high school	6	0	6	0	0	0
State, Western Black Sea, sports and fine arts high school	6	0	6	0	0	0
State, Western Black Sea, Anatolian imam hatip high school	6	0	6	0	0	0
State, Eastern Black Sea, science high school	6	0	6	0	0	0
State, Eastern Black Sea, social sciences high school	5	0	5	0	0	0
State, Eastern Black Sea, Anatolian high school	6	0	6	0	0	0
State, Eastern Black Sea, vocational high school	6	0	6	0	0	0
State, Eastern Black Sea, sports and fine arts high school	6	0	6	0	0	0
State, Eastern Black Sea, Anatolian imam hatip high school	6	0	6	0	0	0
State, North-East Anatolia, science high school	6	0	6	0	0	0
State, North-East Anatolia, social sciences high school	6	0	6	0	0	0
State, North-East Anatolia, Anatolian high school	6	0	6	0	0	0
State, North-East Anatolia, vocational high school	6	0	6	0	0	0
State, North-East Anatolia, sports and fine arts high school	6	0	6	0	0	0
State, North-East Anatolia, Anatolian imam hatip high school	6	0	6	0	0	0
State, Middle-East Anatolia, science high school	6	0	6	0	0	0

School Participation Status						
Explicit strata	Total sampled schools	Ineligible schools	----- Participating Schools -----			
			Sampled schools	First replacement	Second replacement	Non-participating schools
State, Middle-East Anatolia, social sciences high school	6	0	6	0	0	0
State, Middle-East Anatolia, Anatolian high school	6	0	6	0	0	0
State, Middle-East Anatolia, Anatolian vocational high school	6	0	6	0	0	0
State, Middle-East Anatolia, sports and fine arts high school	6	0	6	0	0	0
State, Middle-East Anatolia, Anatolian imam hatip high school	6	0	6	0	0	0
State, Middle-East Anatolia, science high school	6	0	6	0	0	0
State, South-Eastern Anatolia, social sciences high school	6	0	6	0	0	0
State, South-Eastern Anatolia, Anatolian high school	6	0	6	0	0	0
State, South-Eastern Anatolia, vocational high school	6	0	6	0	0	0
State, South-Eastern Anatolia, sports and fine arts high school	6	0	6	0	0	0
State, South-Eastern Anatolia, Anatolian imam hatip high school	6	0	6	0	0	0
Private, science high school	8	0	8	0	0	0
Private, Anatolian high school	8	0	8	0	0	0
Private, vocational high school	8	0	8	0	0	0
Private, basic high school	8	1	7	0	0	0
<b>Total</b>	<b>459</b>	<b>2</b>	<b>457</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### Data Source

The data used for the sampling came from the Ministry of National Education.



## United Arab Emirates

ISCED level 3 education in the United Arab Emirates (UAE) comprises the upper secondary level of schooling (grades 10 to 12, which cater to students 15 to 17 years of age).

Coverage and Exclusions		ISCED level 3 schools	ISCED level 3 teachers
Target population		448	13 260
Exclusions:	Private schools	11	285
Total exclusions		11	285
Survey population		437	12 975
Coverage after exclusions (%)		97.54	97.85

Note: Of the 437 sampled schools, 113 were from Dubai, 221 were from Abu Dhabi and 103 were from the rest of the UAE.

## Sample Design

<b>Sample allocation:</b>	Census.
<b>Sample sizes:</b>	The 36 largest schools (12 from each region, that is, Dubai, Abu Dhabi, and the rest of the UAE) were selected for the field trial. A census of 221 school from Abu Dhabi, 109 from Dubai and 103 from the rest of the UAE formed the sample for the main survey. Note that although each complement of 12 largest schools was selected for both the field trial and the main survey, the groups of teachers selected for the field trial and the main survey differed.
<b>Method of sample selection:</b>	Census.
<b>Measure of size:</b>	Number of ISCED level 3 level teachers provided in the sampling frame.
<b>Explicit stratification:</b>	Organised by region (Dubai, Abu Dhabi, rest of the UAE), and ISCED levels (ISCED 3 only, ISCED levels 3 and 2, ISCED levels 3 and 1, ISCED levels 3, 2 and 1).
<b>Implicit stratification:</b>	Not used.

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
Abu Dhabi, ISCED level 3 only	30	2	28	0	0	0
Abu Dhabi, ISCED levels 3 and 2	36	2	34	0	0	0
Abu Dhabi, ISCED levels 3 and 1 and ISCED levels 3, 2 and 1	155	11	144	0	0	0
Dubai, ISCED level 3 only	12	0	12	0	0	0
Dubai, ISCED levels 3 and 2	14	0	14	0	0	0

<b>School Participation Status</b>						
	----- Participating Schools -----					
<b>Explicit strata</b>	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
Dubai, ISCED levels 3 and 1	2	0	2	0	0	0
Dubai, ISCED levels 3, 2 and 1	85	2	80	0	0	3
Other UAE, ISCED level 3 only	45	4	41	0	0	0
Other UAE, ISCED levels 3 and 2	35	3	32	0	0	0
Other UAE, ISCED levels 3 and 1 and ISCED levels 3, 2 and 1	23	5	18	0	0	0
<b>Total</b>	<b>437</b>	<b>29</b>	<b>405</b>	<b>0</b>	<b>0</b>	<b>3</b>

#### **Data Sources**

The data used were sourced from the school information system and private-school registrar.

## Viet Nam

ISCED level 3 education in Viet Nam comprises senior high school (grades 10 to 12).

Coverage and Exclusions			
		ISCED level 3 schools	ISCED level 3 teachers
Target population		2 941	167 755
Exclusions:	Non-Vietnamese international schools	13	156
Total exclusions		13	156
Survey population		2 928	167 599
Coverage after exclusions (%)		99.56	99.91

## Sample Design

<b>Sample allocation:</b>	Proportional to the number of ISCED level 3 teachers.
<b>Sample sizes:</b>	Thirty schools for the field trial; 200 schools for the main survey.
<b>Method of sample selection:</b>	Systematic sample proportional to school size. The samples for ISCED levels 2 and 3 were selected first after which overlap control was used to select the ISCED level 1 sample. The sample overlap control method, developed by Chowdhury, Chu, and Kaufman (2000), minimised the probability of selecting schools for ISCED level 1 that had already been selected for ISCED levels 2 and 3.
<b>Measure of size:</b>	Number of ISCED level 3 teachers in schools.
<b>Explicit stratification:</b>	Organised by zone with three levels (central, northern, southern), region with six levels (see table) and type of funding with two levels (public, private). Note that ISCED levels 2 and 3 were executed at the same time, the strata for ISCED level 2 included ISCED level 2 only and ISCED levels 2 and 3, and that the strata for ISCED level 3 included ISCED level 3 only and ISCED levels 3 and 2.
<b>Implicit stratification:</b>	Organised by location with three levels (urban, rural, remote).

School Participation Status						
----- Participating Schools -----						
Explicit strata	Total sampled schools	Ineligible schools	Sampled schools	First replacement	Second replacement	Non-participating schools
ISCED level 3 only, central, north-central and central coastal areas, public	36	1	35	0	0	0
ISCED level 3 only, central, north-central and central coastal areas, private	4	0	4	0	0	0
ISCED level 3 only, central, northern midlands and mountain areas, all	8	0	8	0	0	0

<b>School Participation Status</b>						
<b>Explicit strata</b>	----- Participating Schools -----					
	<b>Total sampled schools</b>	<b>Ineligible schools</b>	<b>Sampled schools</b>	<b>First replacement</b>	<b>Second replacement</b>	<b>Non-participating schools</b>
ISCED level 3 only, northern, central highlands, public	24	0	24	0	0	0
ISCED level 3 only, northern, central highlands, private	4	0	4	0	0	0
ISCED level 3 only, northern, Mekong River Delta, public	28	0	28	0	0	0
ISCED level 3 only, northern, Mekong River Delta, private	8	0	8	0	0	0
ISCED level 3 only, southern, Red River Delta, public	32	0	32	0	0	0
ISCED level 3 only, southern, Red River Delta, private	8	0	8	0	0	0
ISCED level 3 only, southern, south east, public	24	0	24	0	0	0
ISCED level 3 only, southern, south east, private	4	0	4	0	0	0
ISCED levels 3 and 2, central, all, all	4	0	4	0	0	0
ISCED levels 3 and 2, northern, all, public	4	0	4	0	0	0
ISCED levels 3 and 2, northern, all, private	4	0	4	0	0	0
ISCED levels 3 and 2, southern, all, public	4	0	4	0	0	0
ISCED levels 3 and 2, southern, all, private	4	0	4	0	0	0
<b>Total</b>	<b>200</b>	<b>1</b>	<b>199</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### **Data Source**

Data were provided by the General Statistics Office of Viet Nam.