ANNEX A

Technical notes on sampling procedures, response rates and adjudication for TALIS 2018

A note regarding Israel

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.

ANNEX A
Technical notes on sampling procedures, response rates and adjudication for TALIS 2018

SAMPLING PROCEDURES AND RESPONSE RATES

The objective of the Teaching and Learning International Survey (TALIS) in 2018 was to obtain, in each participating country and economy, a representative sample of teachers for each ISCED level in which the country and economy participated. Moreover, a representative sample of teachers teaching students of the appropriate age in schools selected for the Programme for International Student Assessment (PISA) in 2018 was required for each country and economy that opted to participate in the TALIS-PISA link. TALIS 2018 identified policy issues that encompass the classroom, teachers, schools and school management, so the coverage of TALIS 2018 extends to all teachers of each concerned ISCED level and to the principals of the schools where they teach. The international sampling plan prepared for TALIS 2018 used a stratified two-stage probability sampling design. This means that teachers (second stage units, or secondary sampling units) were to be randomly selected from the list of in-scope teachers in each of the randomly selected schools (first stage units, or primary sampling units). A more detailed description of the survey design and its implementation can be found in the TALIS 2018 Technical Report (OECD, 2019[1]).

A teacher of ISCED level 1, 2 or 3 is one who, as part of his or her regular duties in their school, provides instruction in programmes at that ISCED level. Teachers who teach a mixture of programmes at different ISCED levels in the target school are included in the TALIS universe. There is no minimum cut-off for how much teaching these teachers need to be engaged in at any of the three ISCED levels.

The international target population of TALIS 2018 restricts the survey to those teachers who teach regular classes in ordinary schools and to the principals of those schools. Teachers teaching to adults and teachers working in schools exclusively devoted to children with special needs are not part of the international target population and are deemed out of scope. Unlike in TALIS 2008, however, teachers working with special needs students in a regular school setting were considered in scope in TALIS 2013 and 2018. When a school is made up exclusively of these teachers, the school itself is said to be out of scope. Teacher aides, pedagogical support staff (e.g. guidance counsellors and librarians) and health and social support staff (e.g. doctors, nurses, psychiatrists, psychologists, occupational therapists and social workers) were not considered to be teachers and, thus, not part of the TALIS international target population.

For national reasons, participating countries could choose to restrict the coverage of their national implementation of TALIS 2018 to parts of the country. For example, a province or state experiencing civil unrest or in an area struck by a natural disaster could be removed from the international target population to create a national target population that does not include these provinces or states. Participating countries were invited to keep these exclusions to a minimum by keeping the national survey population to at least 95% of the teachers.

TALIS 2018 recognised that attempting to survey teachers in very small schools can be inefficient and difficult. For each ISCED level, surveying teachers in schools with no more than three teachers at a specific ISCED level and those teaching in schools located in geographically remote areas could be a costly, time-consuming and statistically inefficient exercise. Therefore, participating countries were allowed to exclude those teachers for TALIS 2018 data collection, thus creating a national survey population different from the national target population. The national project manager (NPM) for each country was required to document the reasons for exclusion, the size, the location, the clientele, etc., of each excluded school. This documentation was required for each ISCED level in which a country participated. The school exclusions for the TALIS-PISA link were the same as those used in PISA 2018.

Within a selected in-scope school, the following categories of teachers were excluded from the sample:

- teachers teaching in schools exclusively serving special needs students
- teachers who also act as school principals: no teacher data collected, but school principal data collected
- substitute, emergency or occasional teachers
- teachers on long-term leave
- teachers teaching exclusively to adults
- teachers who had taken part in the TALIS 2018 field trial.

SAMPLE SIZE REQUIREMENTS

For each ISCED level, the same requirements for sample size and precision of estimates were established. To allow for reliable estimation and modelling, while allowing for some amount of non-response, the minimum sample size was set at 20 teachers within each participating school. A minimum sample of 200 schools was to be drawn from the population of in-scope schools. Thus, the nominal international sample size was a minimum of 4 000 teachers for each ISCED level in which a country or economy participated. Participating countries and economies could choose to augment their national sample by selecting more schools, by selecting more teachers within each selected school or by increasing both. Some countries and economies were asked to increase the within-school sample to counterbalance the effect of selecting too many schools with fewer than 20 teachers. The sample size requirement was reduced for some participating countries and economies because of the smaller number of schools available for sampling. In a few cases, because the average number of teachers in the schools was fewer than expected in the international plan, the number of schools sampled was increased to maintain a minimum total number of participating teachers.

In many countries, the separation of grades in ISCED levels does not correspond to a physical separation of school buildings or administrations: schools that offer grades 8 to 12 straddle ISCED levels 2 and 3, but all of ISCED level 2 would not be covered by those schools. In countries and economies that participated in more than one ISCED level, arrangements were made with the NPM and their team to optimise the selection of the school sample by either minimising the overlap of the respective samples (one school is selected for participation in only one ISCED level) or maximising the sample overlap (a selected school contributes to all concerned ISCED levels). However, in the case of maximised overlap, teachers who taught at more than one level would be asked to participate in only one.

DEFINITION OF TEACHERS

As in previous cycles, TALIS 2018 followed the INES (Indicators of Educational Systems) data collection definition of a teacher for sampling and analysis:

> *"A classroom teacher (ISCED 0-4) is defined as a person who plans, organises and conducts a group of activities with the aim of developing students' knowledge, skills and competencies as stipulated by educational programmes." (OECD, 2018, p. 43[2]).*

ADJUDICATION PROCESS

The basic principle that guides the adjudication is to determine, for each participating country/economy and for each of the TALIS options, whether the data released to the countries and economies are fit to provide policy relevant, robust international indicators and analysis on teachers and teaching in a timely and cost effective manner.

To establish fitness for use, a number of quality assurance processes were designed and activated throughout the survey process. Some processes relied on expert advice and opinion; some relied on qualitative information and learned judgement; some relied on quantitative information. For more detailed information, please refer to the *TALIS 2018 Technical Report* (OECD, 2019[1]).

During the adjudication session, each individual dataset – that is, the combination of participating countries/economies, survey options and questionnaire types – was submitted to the same examination. For the first time in a TALIS cycle, principal data were evaluated on their own. In other words, principal and teacher data received separate adjudication evaluation per TALIS option and per country/economy.

The issues evaluated concerned the questionnaire adaptation to national context, translation and verification, quality of the sampling frame, handling of out-of-scope and refusal units (i.e. teachers and/or schools), within-school sampling, data collection, data cleaning, the reports of quality observers, participation rates and overall compliance with the technical standards. Once each survey process had been assessed, a recommended rating was formulated, accounting for the participation rates, and for any unresolved issue.

The adjudication rules, based on participation rates for principals and teachers, are displayed in Table A I.A.1 and Table A I.A.2.

Table A I.A.1 **Adjudication rules for school or principal data in TALIS 2018**

School participation (returned principal questionnaires)		Risk of school non-response bias	Rating
Before replacement	After replacement		
≥75%	≥75%		Good
50% - 75%	≥75%		Fair (A)
	50% - 75%	Low	Fair (C)
		High	Poor (D)
< 50%			Insufficient

Table A I.A.2 **Adjudication rules for teacher data in TALIS 2018**

School participation (minimum teacher participation)		Teacher participation after school replacement	Risk of teacher non-response bias	Rating
Before replacement	After replacement			
≥75%	≥75%	≥75%		Good
		50% - 75%		Fair (A)
50% - 75%	≥75%	≥75%		Fair (B)
		50% - 75%	Low	Fair (C)
			High	Poor (D)
50% - 75%	50% - 75%			Poor (E)
< 50%	≥75%			Poor (F)
< 50%	< 75%			Insufficient

The following bulleted list is a simple guide aimed at helping data users appreciate the limitations on use or quality:

- **Good:** the participating country's/economy's data can be used for all reporting and analytical purposes and can be included in international comparisons
- **Fair (A):** national and sub-national estimates can be produced; some teacher characteristics may suffer from a larger standard error (s.e.), hence the warning "Fair" and no additional warnings to users appear necessary
- **Fair (B, only for teacher data adjudication):** national and sub-national estimates can be produced; some sub-national estimates may be of lower precision (larger s.e.) if sample size is locally low, hence the warning "Fair" and no additional warnings to users appear necessary
- **Fair (C):**
  - national and sub-national estimates can be produced
  - some sub-national estimates may be of lower precision (larger s.e.) if sample size is locally low, hence the warning "Fair", but a note on data quality could appear pointing to the outcome of the non-response bias analysis (NRBA)
  - since school participation is somewhat lower than under (B), comparing sub-national estimates should be done with care, as some of those results are based on few schools
  - comparing small sub-national estimates with similar groups from other countries is likely to uncover any statistically meaningful differences as s.e. are likely too large
- **Poor (D):**
  - in addition to the warnings issued for the previous category, a note should warn users of indications of non-response biases in some estimates
  - comparisons of sub-national estimates should be limited to the groups with the larger sample sizes
  - at this point, the sample represents between 37% and 56% of the teaching workforce, from a rather small sample of schools
  - comparisons with similar groups in foreign countries would not be encouraged
- **Poor (E, only for teacher data adjudication):** sub-national estimates would not be recommended; there should be a note pointing out the difficulty of obtaining a representative sample of schools
- **Poor (F, only for teacher data adjudication):** limitations similar to those of line E, but there should be a note pointing out the difficulty of obtaining at least 50% participation of the selected sample of schools; risks of having a non-representative sample of schools
- **Insufficient:** weights should not be calculated for any official tabulations; hence, data should not be incorporated into international tables, models, averages, etc.

The participation rates and the adjudication rating per participating country/economy and by ISCED level are presented in Table A I.A.3 to Table A I.A.8.[1]

NOTES REGARDING THE USE AND INTERPRETATION OF THE DATA

This section lists issues to be noted regarding the sampling or field operations that should be considered when interpreting the data reported for these countries.

- **Alberta (Canada):**
  - TALIS data collection conducted during a labour dispute.
  - Non-response bias analysis shows no evidence of high risk of school non-response bias on the investigated variables for teachers or principals in ISCED 2 or ISCED 3 and, as such, their rating was upgraded from "poor" to "fair".
- **Australia:**
  - For both ISCED 1 and 2, the data collection window for both teachers and principals was extended from the end of the academic year in 2017 to the beginning of the following academic year in 2018.
  - For ISCED 1 principals and teachers and for ISCED 2 principals, data from Australia are located below the line in selected tables in this report and not included in the calculations for the international average. This is because Australia did not meet the international standards for participation rates, as shown in Table AI.A.3 to Table AI.A.5.
- **Colombia:** Non-response bias analysis shows no evidence of high risk of school non-response bias on the investigated variables for teachers or principals and, as such, their rating was upgraded from "poor" to "fair".
- **Czech Republic:** Trend items should be interpreted carefully due to complications arising from the translation process.
- **Denmark:** Non-response bias analysis shows no evidence of high risk of school non-response bias on the investigated variables for teachers or principals in ISCED1, ISCED 2 or ISCED 3 and, as such, their rating was upgraded from "poor" to "fair".
- **Flemish Community of Belgium:** For both ISCED 1 and 2, entries on the sampling frame are administrative units and not "schools" as they are usually defined; a "school" may be comprised of one or several administrative units and the principal would be reporting for the school and not only the selected administrative unit; therefore, users should exercise care when analysing and comparing school-level statistics.
- **Georgia:**
  - Items repeated from the TALIS 2013 questionnaire (hereafter "trends items") should be interpreted carefully due to complications arising from the translation process.
  - Some translation issues could still exist in the Georgian and Azerbaijani version of the questionnaires.
- **Israel:** Coverage falls below 95%, after *post facto* exclusion of ultraorthodox schools for low response rates, making coverage identical to that of TALIS 2013. Because translation issues could still exist in the trends items, users need to exercise caution when comparing results across TALIS cycles.
- **Italy:** Trends items should be interpreted carefully due to complications arising from the translation process.
- **Latvia:**
  - Trends items should be interpreted carefully due to complications arising from the translation process.
  - Some translation issues could still exist in the national instruments that could affect the data.
- **Korea:** For ISCED 2, in four schools, teacher listings were found to be incorrect; those schools were set to "non-participant".
- **Netherlands:**
  - For ISCED 1 and 2, the Netherlands had a six-week early start and extended collection window.
  - For ISCED 1 and 2, the Netherlands had an unapproved collection protocol that resulted in the inclusion of some 50 "national" schools that were not included in the international dataset but left on the national dataset; participation rates were computed on the international dataset.
  - For ISCED 1 principals and teachers, data from the Netherlands are located below the line in in the result tables of this report. This is because the Netherlands did not meet the international standards for participation rates, as shown in Table AI.A.3 and Table AI.A.4.
- **New Zealand:** Coverage was extended to small schools (four or fewer teachers). While the impact of this action on the target population of teachers was negligible, the impact on the target population of principals is important because, compared to TALIS 2013, the target population for principals nearly doubled in size. The TALIS 2018 results reported in the result tables on changes since 2013 for New Zealand were estimated after excluding from New Zealand's TALIS 2018 sample those schools with four or fewer eligible teachers. This was done in order to ensure comparability with their TALIS 2013 results (as such, small schools were excluded from the TALIS 2013 sampling frame). Therefore, these results can differ from those reported for the full TALIS 2018 sample, especially those derived from the school and/or principal data.
- **Russian Federation:** Coverage falls below 95% after the exclusion of Moscow.

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- **Saudi Arabia:** Coverage falls below 95% after the sampling excluded two provinces bordering Yemen.
- **Spain:** Trends items should be interpreted carefully due to complications arising from the translation process.
- **United Arab Emirates:**
  - Comparisons with TALIS 2013 must be limited to Abu Dhabi.
  - Because of the selection of multi-level schools, the principal data were copied from the original ISCED level 2 principal questionnaire to the ISCED level 1 and ISCED level 3 corresponding forms, except for question 17 in the principal questionnaire.

Table A I.A.3 **ISCED 1 principals' participation and recommended ratings**

	Number of participating principals	Principals' participation before replacement (%)	Principals' participation after replacement (%)	Recommended rating
Australia	223	48.8	77.9	Insufficient
Flemish Community (Belgium)	185	70.1	92.0	Fair
CABA (Argentina)*	175	85.0	87.5	Good
Denmark	145	56.6	73.2	Fair
England (UK)	161	76.4	89.5	Good
France	178	89.3	91.5	Good
Japan	197	97.2	99.5	Good
Korea	161	78.0	80.5	Good
Netherlands	135	40.7	69.6	Insufficient
Spain	436	98.2	98.2	Good
Sweden	166	84.7	87.4	Good
Chinese Taipei	200	99.8	100.0	Good
Turkey	171	99.3	99.3	Good
United Arab Emirates	502	90.6	90.6	Good
Viet Nam	194	100.0	100.0	Good

* CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

Table A I.A.4 **ISCED 1 teachers' participation and recommended ratings**

	Number of participating schools	Number of participating teachers	Estimated size of teacher population	School participation before replacement (%)	School participation after replacement (%)	Teacher participation in participating schools (%)	Overall teacher participation (%)	Recommended rating
Australia	213	3 030	133 915	48.8	74.0	76.4	56.5	Insufficient
Flemish Community (Belgium)	178	2 672	30 204	67.2	88.6	92.0	81.5	Fair
CABA (Argentina)*	167	2 514	16 236	81.0	83.5	86.9	72.5	Good
Denmark	154	2 592	34 185	58.6	77.8	87.5	68.1	Fair
England (UK)	152	2 009	225 2	66.3	80.0	85.7	68.6	Fair
France	178	1 429	209 981	88.6	91.2	92.1	84.0	Good
Japan	197	3 308	355 655	97.0	99.5	98.8	98.3	Good
Korea	182	3 207	128 94	86.0	91.0	91.9	83.6	Good
Netherlands	130	2 019	68 672	39.3	67.3	87.2	58.7	Insufficient
Spain	442	7 246	210 627	99.3	99.5	95.4	95.0	Good
Sweden	178	2 404	57 237	90.0	93.7	78.8	73.8	Good
Chinese Taipei	200	3 494	89 694	99.5	100.0	97.6	97.6	Good
Turkey	172	3 204	213 362	99.4	99.4	98.5	97.9	Good
United Arab Emirates	552	9 188	16 417	99.6	99.6	96.6	96.2	Good
Viet Nam	194	3 991	386 062	100.0	100.0	98.3	98.3	Good

* CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

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Table A I.A.5 **ISCED 2 principals' participation and recommended ratings**

	Number of participating principals	Principals' participation before replacement (%)	Principals' participation after replacement (%)	Recommended rating
Alberta (Canada)	129	54.4	66.2	Fair
Australia	230	49.0	75.7	Insufficient
Austria	277	96.0	100.0	Good
Belgium	311	86.5	95.7	Good
Flemish Community (Belgium)	192	82.4	93.7	Good
Brazil	184	88.0	95.4	Good
Bulgaria	200	97.5	100.0	Good
Chile	170	78.9	87.6	Good
CABA (Argentina)*	121	77.5	86.2	Good
Colombia	141	68.8	70.9	Fair
Croatia	188	95.0	95.6	Good
Cyprus[1, 2]	88	88.9	88.9	Good
Czech Republic	216	99.0	99.0	Good
Denmark	140	51.5	71.4	Fair
England (UK)	157	71.9	81.8	Fair
Estonia	201	88.6	100.0	Good
Finland	148	100.0	100.0	Good
France	195	97.6	98.0	Good
Georgia	182	91.7	91.7	Good
Hungary	182	91.2	94.3	Good
Iceland	101	74.3	74.3	Fair
Israel	184	90.9	93.7	Good
Italy	190	92.4	98.6	Good
Japan	195	93.9	99.4	Good
Kazakhstan	331	100.0	100.0	Good
Korea	150	68.1	77.8	Fair
Latvia	136	80.4	91.9	Good
Lithuania	195	100.0	100.0	Good
Malta	54	93.1	93.1	Good
Mexico	193	90.6	97.0	Good
Netherlands	125	58.1	86.3	Fair
New Zealand	189	71.7	92.0	Fair
Norway	162	67.5	81.0	Fair
Portugal	200	97.7	100.0	Good
Romania	199	100.0	100.0	Good
Russian Federation	230	99.1	100.0	Good
Saudi Arabia	192	96.5	96.5	Good
Shanghai (China)	198	100.0	100.0	Good
Singapore	167	97.0	98.8	Good
Slovak Republic	180	84.4	90.5	Good
Slovenia	119	74.8	79.3	Good
South Africa	169	92.3	92.3	Good
Spain	396	98.7	99.2	Good
Sweden	171	85.9	89.1	Good
Chinese Taipei	202	100.0	100.0	Good
Turkey	196	99.0	99.0	Good
United Arab Emirates	476	91.4	91.4	Good
United States	164	63.1	77.6	Fair
Viet Nam	196	100.0	100.0	Good

* CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

1. **Note by Turkey:** The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

2. **Note by all the European Union Member States of the OECD and the European Union:** The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

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Table A I.A.6 **ISCED 2 teachers' participation and recommended ratings**

	Number of participating schools	Number of participating teachers	Estimated size of teacher population	School participation before replacement (%)	School participation after replacement (%)	Teacher participation in participating schools (%)	Overall teacher participation (%)	Recommended rating
Alberta (Canada)	122	1 077	9 991	51.8	62.6	83.0	52.0	Fair
Australia	233	3 573	116 679	50.3	76.6	77.7	59.6	Fair
Austria	246	4 255	45 882	85.9	88.8	84.4	75.0	Good
Belgium	306	5 333	34 494	86.0	95.1	86.8	82.6	Good
Flemish Community (Belgium)	186	3 198	18 746	80.0	90.7	84.3	76.5	Good
Brazil	185	2 447	568 719	89.9	96.6	94.9	91.6	Good
Bulgaria	200	2 862	21 221	97.1	100.0	98.3	98.3	Good
Chile	180	1 971	55 979	82.6	91.5	94.3	86.2	Good
CABA (Argentina)*	130	2 099	10 219	81.3	86.7	88.6	76.8	Good
Colombia	154	2 398	164 143	73.9	77.4	93.4	72.3	Fair
Croatia	188	3 358	15 762	95.4	96.2	87.0	83.7	Good
Cyprus[1]	88	1 611	3 861	89.8	89.8	90.3	81.0	Good
Czech Republic	219	3 447	42 354	100.0	100.0	93.8	93.8	Good
Denmark	141	2 001	22 492	51.1	72.0	86.8	62.5	Fair
England (UK)	149	2 376	193 195	72.7	81.5	83.6	68.1	Fair
Estonia	201	3 083	7 248	88.6	100.0	95.4	95.4	Good
Finland	148	2 851	18 938	100.0	100.0	96.2	96.2	Good
France	176	3 006	197 013	87.3	87.8	88.1	77.3	Good
Georgia	198	3 214	38 150	99.5	99.5	95.9	95.4	Good
Hungary	189	3 245	44 013	94.9	97.7	95.0	92.8	Good
Iceland	122	1 277	1 864	89.7	89.7	75.5	67.8	Good
Israel	172	2 627	32 603	85.3	87.3	84.9	84.9	Good
Italy	190	3 612	190 447	91.7	99.0	93.5	92.5	Good
Japan	196	3 555	231 118	92.4	99.5	99.0	98.5	Good
Kazakhstan	331	6 566	195 659	100.0	100.0	99.8	99.8	Good
Korea	163	2 931	75 848	70.5	81.5	92.2	75.1	Fair
Latvia	135	2 315	12 006	77.1	91.2	87.9	80.2	Good
Lithuania	195	3 759	19 861	100.0	100.0	97.4	97.4	Good
Malta	55	1 656	1 941	94.8	94.8	86.5	82.0	Good
Mexico	193	2 926	255 079	90.4	96.3	94.3	90.8	Good
Netherlands	116	2 584	66 491	58.3	80.2	80.8	64.7	Fair
New Zealand	184	2 255	23 411	62.6	79.3	79.6	63.2	Fair
Norway	185	4 154	21 828	77.4	92.6	83.2	77.0	Good
Portugal	200	3 676	39 703	97.9	100.0	92.7	92.7	Good
Romania	199	3 658	66 078	100.0	100.0	98.3	98.3	Good
Russian Federation	230	4 011	647 381	98.7	100.0	99.9	99.9	Good
Saudi Arabia	179	2 744	99 693	89.7	89.7	86.0	77.1	Good
Shanghai (China)	198	3 976	38 876	100.0	100.0	99.5	99.5	Good
Singapore	169	3 280	11 546	98.2	100.0	99.2	99.2	Good
Slovak Republic	176	3 015	24 756	82.4	88.9	95.4	84.7	Good
Slovenia	132	2 094	7 422	82.2	88.0	91.5	80.5	Good
South Africa	170	2 046	92 127	92.3	92.9	89.1	82.3	Good
Spain	399	7 407	186 187	99.5	100.0	94.6	94.6	Good
Sweden	180	2 782	31 435	89.1	93.9	81.3	76.3	Good
Chinese Taipei	200	3 835	53 243	99.0	99.0	97.2	96.2	Good
Turkey	196	3 952	277 675	99.0	99.0	98.5	97.5	Good
United Arab Emirates	521	8 648	14 510	100.0	100.0	96.0	96.0	Good
United States	165	2 560	1 145 071	60.1	76.8	89.6	68.8	Fair
Viet Nam	196	3 825	295 532	100.0	100.0	96.3	96.3	Good

* CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

1. See notes 1 and 2 of Table A A.5.

Table A I.A.7 **ISCED 3 principals' participation and recommended ratings**

	Number of participating principals	Principals' participation before replacement (%)	Principals' participation after replacement (%)	Recommended rating
Alberta (Canada)	115	51.8	59.6	Fair
Brazil	187	91.4	97.5	Good
Croatia	145	96.7	96.7	Good
Denmark	96	58.3	70.8	Fair
Portugal	195	98.0	99.5	Good
Slovenia	103	69.6	69.6	Fair
Sweden	174	91.6	93.8	Good
Chinese Taipei	151	100.0	100.0	Good
Turkey	448	98.0	98.0	Good
United Arab Emirates	366	89.7	89.7	Good
Viet Nam	199	100.0	100.0	Good

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Table A I.A.8 **ISCED 3 teachers' participation and recommended ratings**

	Number of participating schools	Number of participating teachers	Estimated size of teacher population	School participation before replacement (%)	School participation after replacement (%)	Teacher participation in participating schools (%)	Overall teacher participation (%)	Recommended rating
Alberta (Canada)	112	1 094	7 819	51.6	56.6	80.2	45.4	Fair
Brazil	186	2 828	421 208	92.2	97.4	94.5	92.0	Good
Croatia	147	2 661	14 818	97.9	97.9	89.7	87.9	Good
Denmark	111	1 670	16 739	65.5	79.9	85.7	68.5	Fair
Portugal	195	3 551	36 194	99.0	99.7	91.3	91.0	Good
Slovenia	119	2 200	5 401	80.4	80.4	87.8	70.6	Good
Sweden	181	2 933	26 916	95.3	97.8	81.7	79.9	Good
Chinese Taipei	148	2 800	41 246	98.1	98.1	95.8	94.1	Good
Turkey	457	8 342	252 770	100.0	100.0	98.0	98.0	Good
United Arab Emirates	405	6 118	10 163	99.3	99.3	95.7	95.0	Good
Viet Nam	199	3 884	175 317	100.0	100.0	97.7	97.7	Good

Note

1. Tables A I.A.3 to A I.A.8 display the participation rate estimates that were the most favourable for the adjudication rating. The most favourable estimates could have been weighted or unweighted depending on the characteristics of the country/economy, the teacher and principals population and the educational level.

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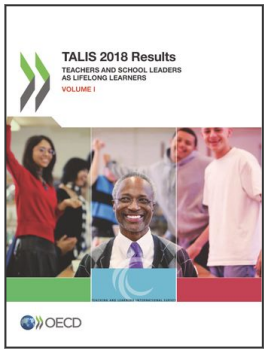

From:

TALIS 2018 Results (Volume I)

Teachers and School Leaders as Lifelong Learners

Access the complete publication at:

https://doi.org/10.1787/1d0bc92a-en

Please cite this chapter as:

OECD (2019), "Technical notes on sampling procedures, response ratesand adjudication for TALIS 2018", in *TALIS 2018 Results (Volume I): Teachers and School Leaders as Lifelong Learners*, OECD Publishing, Paris.

DOI: https://doi.org/10.1787/42b36c64-en

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