



UIS questionnaire verification and data gap on TVET UIS Regional Workshop on Education for Pacific countries Nadi (Fiji), 5-9 December 2016

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Outline

- UIS Questionnaire A verification
 - ISCED definition
 - Data consistency between UIS QA tables

TVET in Pacific countries

- TVET definition
- Where TVET data are collected in QA
- Impact on lack / mis-reporting of data

ISCED 2011: definitions

Formal education

Education that is institutionalized, intentional and planned through public organizations and recognized private bodies

Typically takes place in educational institutions that are designed to provide <u>full-time</u> education for students in a system designed as a continuous educational pathway

■Consists primarily of <u>initial education</u> designed for children and young people before their first entry to the labour market

□Vocational education, special needs education and some parts of adult education are often recognized as being part of the formal education system

ISCED 2011: definitions

Formal adult education programmes specifically targeted at individuals who are regarded as adults by their society to improve their technical or professional qualifications, further develop their abilities, enrich their knowledge with the purpose to complete a level of formal education, or to acquire, refresh or update their knowledge, skills and competencies in a particular field

□offered in the <u>same or similar formal settings</u> as **initial** education

□do not have the same typical entry age as equivalent programmes in **initial education**

may have a different, usually shorter, duration

□e.g. second chance programmes for youth or adults

Data check

- Check data correspond to ISCED mapping: the number of grades reported in tables A5 and A6 versus ISCED mapping.
 e.g. If the theoretical duration of ISCED 1 is 6 years, we expect 6 grades of data in A5. If the theoretical duration of ISCED 24 is 2 years, we expect 2 grades in A6.
- Report the <u>sum of formal adult education programmes and</u> <u>initial education</u> in UIS tables A2 (by type of institutions) and A3 (by age) where A2 = A3
- Report <u>only</u> formal adult education programmes in UIS table A4
- ✓ Report <u>only</u> initial education in UIS tables A5 (ISCED 1 by age and grade) and A6 (ISCED 24 by age and grade)

UIS QA data verification - students

For ISCED 1 primary:

table A4 (formal adult education) + table A5 (initial education)

= table A2 = table A3 (formal adult education and initial education)

A4: Number of students in formal adult education by level of education, age and sex



UIS QA data verification - students

If ISCED 2 lower secondary vocational education does not exist (not applicable "0 Z") in your country:

table A4 (formal adult education) + table A6 (initial education)

= table A2 = table A3 (formal adult education and initial education)

A4: Number of students in formal adult education by level of education, age and sex

		Formal adult	educatio	n only									
Students and part-time	Primary	Lower secondary				rs in initial	lower and	upper seco	ondary gen	eral educat	tion by grade, a	ge and sex	
Age	ISCED 1	ISCED 2		Students					-		ation only		Upper
< 15			Full-ar	id part-time			L	ower seco	ondary (IS	SCED 24)			secondaru
16			Sex	Age	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Unspecified or residual grade	TOTAL	TOTAL: all grades
17 18 19 20 21 22 23 24 25-29			Males	<10 10 11 12 13 14 15 16 17 17 18									
30-34 35-39 40-44 45-49 > 49 Age unknown TOTAL			females	20 21 22 23 24 >24 Age unknown TOTAL									
	Age <15 15 16 17 18 19 20 21 22 23 24 25-29 30-34 35-39 40-44 45-49 >49 Age unknown	Age Primary Age ISCED 1 <15	Students Lower and part-time Primary Lower Age ISCED 1 ISCED 2 <15	Students Primary Lower secondary A6: Numb Age ISCED 1 ISCED 2 St <15	Age ISCED 1 ISCED 2 Students a Age ISCED 1 ISCED 2 Students 15 ISCED 2 Sex Age 16 ISCED 2 Sex Age 17 ISCED 2 Sex Age 18 ISCED 2 Sex Age 11 ISCED 2 Sex Age 11 ISCED 2 Sex Age 17 ISCED 2 Sex Age 11 ISCED 2 Sex Age 13 ISCED 2 ISCED 2 ISCED 2 13 ISCED 2 ISCED 2 ISCED 2	Students Lower Honer Post- Age ISCED 1 ISCED 2 Students and repeate <15	Students and part-time Primary Lower secondary Honar Post- Age ISCED 1 ISCED 2 Students and repeaters in initial 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 11 12 16 11 12 16 <td< td=""><td>Students Lower Post- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and secondary Age ISCED 1 ISCED 2 Students Full- and part-time Full- and part-time 15 Students Students Grade 1 Grade 2 Grade 3 16 Sex Age Grade 1 Grade 2 Grade 3 17 Sex Age Grade 1 Grade 2 Grade 3 18 Sex Age Int Int</td><td>Students Lower Post- Age ISCED 1 ISCED 2 Students Full-and part-time Formal in Age ISCED 1 ISCED 2 Students Full-and part-time Iscenter Iscenter</td><td>Students Lower Post- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and upper secondary gen 4 ge ISCED 1 ISCED 2 Students Formal initial gene 15 Secondary Students Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 16 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 17 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 18 Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 19 Grade 1 Grade 1 Grade 3 Grade 4 Grade 5 21 Initial Initial Initial Initial Initial Initial 22 Initial Initial Initial Initial Initial Initial Initial 23 Initial Initial Initial Initial Initial Initial Initial Initial Initial In</td><td>Students Lower secondary Lower secondary Bost- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of secondary Age ISCED 1 ISCED 2 Students Full-and part-time Formal initial general education of secondary (ISCED 24) 15 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 17 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 19 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 21 Sex Age IS Sex Age Sex Sex</td></td<>	Students Lower Post- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and secondary Age ISCED 1 ISCED 2 Students Full- and part-time Full- and part-time 15 Students Students Grade 1 Grade 2 Grade 3 16 Sex Age Grade 1 Grade 2 Grade 3 17 Sex Age Grade 1 Grade 2 Grade 3 18 Sex Age Int Int	Students Lower Post- Age ISCED 1 ISCED 2 Students Full-and part-time Formal in Age ISCED 1 ISCED 2 Students Full-and part-time Iscenter Iscenter	Students Lower Post- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and upper secondary gen 4 ge ISCED 1 ISCED 2 Students Formal initial gene 15 Secondary Students Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 16 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 17 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 18 Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 19 Grade 1 Grade 1 Grade 3 Grade 4 Grade 5 21 Initial Initial Initial Initial Initial Initial 22 Initial Initial Initial Initial Initial Initial Initial 23 Initial Initial Initial Initial Initial Initial Initial Initial Initial In	Students Lower secondary Lower secondary Bost- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of students and repeaters in initial lower and upper secondary general education of secondary Age ISCED 1 ISCED 2 Students Full-and part-time Formal initial general education of secondary (ISCED 24) 15 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 17 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 19 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 21 Sex Age IS Sex Age Sex Sex	Students Lower secondary Bost- Age ISCED 1 ISCED 2 Students and repeaters in initial lower and upper secondary general education only 15 Students Formal initial general education only 16 Students Full-and part-time Lower secondary (ISCED 24) 16 Students Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 Unspecified or residual grade 18 Sex Age Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 Unspecified or residual grade 19 Intervention Intervention	Students and part-time Lower secondary Lower secondary Students and repeaters in initial lower and upper secondary general education by grade, age and sex Age ISCED 1 ISCED 2 Students Formal initial general education only Lower Students Formal initial general education only Image Image <thimage< th=""> Image <thimage< th=""></thimage<></thimage<>

UIS QA data verification - graduates

	TABLE 1: NATIONAL EDUCATION PROGRAMMES ACCORDING TO ISCED 2011 All formal education programmes (including adult formal education)										
	Prog	gramme information			classification according to ISCED 2011						
Name of the programme in national language	Minimum entrance requirements if applicable, in national language	Name of the qualification awarded at end of programme in national language (fill in multiple lines if more than one qualification)	Theoretical entrance age	Theoretical duration	ISCED 2011 level	ISCED 2011 type or orientation (where applicable)	ISCED 2011 level completion and position in national degree structure (where applicable)	Does the programme provide direct access to higher ISCED 2011 level(s)? (for levels 2-4 only)	Р	ISCED 2011 Programme three-digit code	
1	3	5	7	8	9	10	11	12		15	
Pre School	3	na	3	3	0	Pre-primary	-	-		020	
Primary (Year 1 to 6)	6	na	6	6	1	-	Full completion	-		100	
Primary (Year 7 and 8)	12	na	12	2	2	General	Partial completion	-		242	
Secondary (Year 9 to 10)	14	na	14	2	2	General	Full completion	Yes, to ISCED 3		244	
Secondary (Year		Fiji School Leaving	16	2	3	General	Full completion	Yes, to ISCED 4 only		343	
A8: Number	r of graduates	by level of educa	tion, type o	f complet	ion and	d sex		_		344	

Primary Lower secondary Upper secondary Of which: Sufficient Of which: Sufficient Graduates Sufficient for level Sufficient for level Sufficient for partial Sufficient for level for level completion for level completion completion completion level completion with direct access to completion without direct access tertiary education to tertiary education ISCED 1 ISCED 243+244+253+254 ISCED 342+352 ISCED 343+344+353+354 ISCED 343+353 ISCED 344+354 Males Females Males and females

*Graduates from an ISCED level include those who entered and successfully completed an

education programme

UIS QA data verification - graduates

A8: Number of graduates by level of education, type of completion and sex

	Primary		Lower secondary		Upper secondary									
Graduates	uates Sufficient for level completion		Sufficient for level completion		Sufficient for partial level completion		Sufficient fo complet		Of which: Sufficient for level completion without direct access to tertiary education		Of which: Sufficient for level completion with direct access to tertiary education			
	ISCED	1	ISCED 243+244	+253+254	ISCED 342+352		ISCED 343+344+353+354		ISCED 343+353		ISCED 344+354			
Males														
Females														
Males and females														

	ategory ientation)		Sub-category (level completion and access to higher ISCED levels)
24	Lower secondary	241	Insufficient for level completion or partial level completion, without direct access to upper secondary education
	general education	242	Sufficient for partial level completion, without direct access to upper secondary education
		243	Sufficient for level completion, without direct access to upper secondary education
		244	Sufficient for level completion, with direct access to upper secondary education
25	Lower secondary	251	Insufficient for level completion or partial level completion, without direct access to upper secondary education
	vocational education 252		Sufficient for partial level completion, without direct access to upper secondary education
		253	Sufficient for level completion, without direct access to upper secondary education
		254	Sufficient for level completion, with direct access to upper secondary education

UIS QA data verification - graduates

A8: Number of graduates by level of education, type of completion and sex

	Primary		Lower seco	ndary	Upper secondary								
Graduates	Sufficient for level completion		Sufficient for level completion		Sufficient for partial level completion		Sufficient fo complet		Of which: Sufficient for level completion without direct access to tertiary education		Of which: Sufficient for level completion with direct access to tertiary education		
	ISCED	1	ISCED 243+244	+253+254	ISCED 342	2+352	ISCED 343+344	+353+354	ISCED 343+353		ISCED 344	+354	
Males													
Females													
Males and females													

	Category orientation)		Sub-category (level completion and access to higher ISCED levels)
34	Upper secondary general education	341	Insufficient for level completion or partial level completion, without direct access to post-secondary non-tertiary education or tertiary education
		342	Sufficient for partial level completion, without direct access to post-secondary non-tertiary education or tertiary education
		343	Sufficient for level completion, without direct access to tertiary education (but may give direct access to post-secondary non-tertiary education)
		344	Sufficient for level completion, with direct access to tertiary education (may also give direct access to post-secondary non-tertiary education)
35	Upper secondary vocational	351	Insufficient for level completion or partial level completion, without direct access to post-secondary non-tertiary education or tertiary education
	education	352	Sufficient for partial level completion, without direct access to post-secondary non-tertiary education or tertiary education
		353	Sufficient for level completion, without direct access to tertiary education (but may give direct access to post-secondary non-tertiary education)
		354	Sufficient for level completion, with direct access to tertiary education (may also give direct access to post-secondary non-tertiary education)

UIS QA data verification - teachers

Classroom teachers table A9:

ISCED 2 + ISCED 3 (in light green) = ISCED 2+3

ISCED 24+34 + ISCED 25+35 (in dark green) = ISCED 2+3

A9: Number of classroom teachers by teaching level of education, employment status, type of institution and sex

Classroom teachers Full- and part-time		Lower secondary	Upper secondary		Total secondary					
		All programmes	All programmes	General	Vocational	All programmes	All programmes			
		ISCED 2	ISCED 3	ISCED 24+34	ISCED 25+35	ISCED 2+3	ISCED 4			
	Public	Males								
		Females								
	institutions	Males and females								
	Private	Males								
Classroom		Females								
	institutions	Males and females								
teachers	teachers Total	Males								
		Females								
		Males and females								
	Of which: po	art-time only								
	Full-time eq	uivalents								

What is TVET?

Technical Vocational Education and Training

*designed for learners to acquire the knowledge, skills and competencies specific to a particular occupation, trade, or class of occupations or trades

may have work-based components

successful completion leads to labour market-relevant vocational qualifications acknowledged as occupationally-oriented by the relevant national authorities and/or the labour market

Where are TVET data in UIS QA?

A2: Number of students by level of education, intensity of participation, type of institution and sex



A3: Number of students by level of education, age and sex

		Students	L	ower seconda	iry	ι	Post- secondary		
For ISCED 25 and 35: table A2	Full- and part-time		General	Vocational	All programmes	General	Vocational	All programmes	All programmes
(students by type of institutions) = table	Sex	Age <2 2	ISCED 24	ISCED 25	ISCED 2	ISCED 34	ISCED 35	ISCED 3	ISCED 4
A3 (students by age)	Males and females	2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25-29 > 29 Age unknown TOTAL							

Where are TVET data in UIS QA?

For ISCED 45: table A2 (students by type of institutions)

Data for ISCED 45 included in the total in table A3 (students by age)

A2: Number of students by level of education, intensity of participation, type of institution and sex

		Post-secondary non-tertiary								
	Gen	eral	Vocat	ional	All programmes					
		ISCE	D 44	ISCE				D 45		
	Public	Males								
		Females								
	institutions	Males and females								
	Private	Males								
Students		Females								
students	institutions	Males and females								
		Males								
	Total	Females								
		Males and females								
	Of which: part-time only									

A3: Number of students by level of education, age and sex



TVET in Pacific region

- ✤ No data for one country
- At ISCED 3 and 4 vocational education, programmes exist in the ISCED mapping but data are missing for some countries

Country Year Secondary N	4 Post-secondary Non-tertiary nical/Vocational
Cook Islands 2015 0 Z 0 Z	0 Z
Nauru 2014 0 Z 0 Z	0 Z
Niue 2015 0 Z 0 Z	0 Z
Tuvalu 2015 0 Z 0	0 Z
Kiribati 2015 0 Z M	0 Z
Marshall Islands 2015 113 24	17
Vanuatu 2016 319 181	1,580
Fiji 2015 0 Z M	7,768
Palau 2016 0 Z 314	M
Tonga 2014 0 Z 477	M
Papua New Guinea 2014 272,579 375,215	М
Samoa 2015 0 Z M	M
Micronesia (Federated States of) 2015 0 Z M	М
Solomon Islands 2015 0 Z M	М
Tokelau 2015	

Impact

1) Lack of data results in missing key indicators such as:

•GER, NER at ISCED 2+3 total secondary

•GER at ISCED 4 post-secondary non-tertiary

SDG 4, Target 4.3 - Universal access to technical and vocational education

- Share of technical and vocational education in total enrolment (%) at ISCED 2+3 and ISCED 4
- Percentage of youth (15-24) enrolled in secondary technical and vocational education (%) at ISCED 2+3 and ISCED 4

2) Mis-reporting of TVET data results in underestimation of the GER: e.g. If a country has ISCED 3 and 4 vocational but reported data as "0 Z" (not applicable) or as "0"

Goals

Better understanding and improve data consistency of UIS questionnaire
 A

✤ Improve TVET data collection in Pacific countries



Thank you!