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The UIS Supplementary Questionnaire on Teachers: data collected and indicators proposed

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Background

❑ Objective

Enlarge the scope of teachers' data currently collected by the UIS to better respond to key policy information needs and new international demands for teachers' data (SDG 4c / Education 2030)

❑ Coverage

- Teachers data on formal education only (initial + adult)
 - Same programmes as reported through the UIS survey on students and teachers UIS_ED_A – but targeting ISCED 02 to 3 only
- Same countries as surveyed by UIS_ED_A

❑ International comparability

- Consistency of data collected with ISCED 2011
- Compliance with guidelines on concepts and definitions to facilitate harmonised and consistent data reporting over-time

Structure and content of the questionnaire

2016 SURVEY OF FORMAL EDUCATION Supplementary Questionnaire on Teachers

Data for the academic year ending in 2015

Deadline for returning the completed questionnaire: 29 April 2016

Table	Content
General information	Contact of the respondents, reference period (academic year start / end), currency and unit, national policy documents on teachers supply and quality teaching.
Table 2	Classroom teachers (ISCED 02-3) by teaching level of education, type of institution, sex and age group
Table 3	Classroom teachers by teaching level of education, type of institution, sex and highest level of education completed
Table 4	Classroom teachers in public and private institutions by teaching level of education, contract type and teaching experience
Table 5	Newly recruited classroom teachers in <u>public</u> institutions by teaching level of education, sex, contract type and training status
Table 6	Annual <u>statutory</u> teacher remuneration (units of national currency) in <u>public</u> institutions, by teaching level of education, contract type and teaching experience
Table 7	Statutory information on classroom teachers in <u>public</u> institutions by teaching level of education (<i>statutory retirement age, minimum ISCED level required to teach, minimum number of years to progress from the min to the max statutory salary, annual statutory working hours, teaching hours, days of professional development and in-service training</i>)

What indicators do we propose?

1. Pupils-teacher ratios (headcount), ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

Formula (for ISCED1):

Total number of pupils enrolled in ISCED 1 / Total number of teachers in service in ISCED 1

Data source: UIS_ED_A_2016 **A2, A9**, UIS_ED_T_2016 **T2 or T3**

2. Pupils-trained teacher ratios (headcount), ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

In formula 1. replace 'teachers' by 'trained teachers'

Data source: UIS_ED_A_2016 **A2, A10**, UIS_ED_T_2016 **T2 or T3**

What indicators do we propose? (2)

- ❑ Number of newly recruited teachers (headcount), ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V (raw data)

Data source: UIS_ED_T_2016 T5

- ❑ Teachers attrition rate by level of education, ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

Formula (for ISCED1):

$$\left(\begin{array}{l} \text{Total number of teachers in service (public and private) in ISCED 1 in year } (t - 1) + \\ \text{(Number of newly recruited teachers in ISCED 1 in year } t), \text{ headcount in year } t \end{array} \right) -$$

Total number of teachers in service (public and private) in ISCED 1 in year (t)

Total number of teachers in service (public and private) in ISCED 1 in year (t - 1)

Data source: UIS_ED_A_2015/6 A2 or UIS_ED_T_2015/6 T2 or T3 and UIS_ED_T_2016 T5

What indicators do we propose? (3)

1. Percentage of teachers who are trained/qualified, ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

Formula (for % of teachers in ISCED 1 who are trained/qualified, pre-service and in-service training):

*Total number of teachers in ISCED 1 who are trained/qualified (public and private) / Total number of teachers in service (public and private) in ISCED 1 * 100*

Data source: UIS_ED_A_2016 A9, A10 or UIS_ED_T_2016 T2 or T3

2. Percentage of newly recruited teachers, ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

In formula 1. replace 'trained' by 'newly recruited'

Data source: UIS_ED_A_2016 A9 and UIS_ED_T_2016 T5

What indicators do we propose? (4)

- ❑ **Percentage of teachers (new dimensions: highest level of education completed, type of contract, teaching experience, age group)**

Formula : for age group in ISCED1 (1) and for teaching experience in ISCED1 (2)

1. *% of teachers by age group (ISCED 1) = Number of teachers at a specific age group in ISCED 1 / All teaching staff in ISCED 1 * 100* [**Data source:** UIS_ED_T_2016 **T2, T3, T4**]

2. *Number of teachers teaching at ISCED 1 with a given teaching experience / Total number of teachers teaching at ISCED 1 * 100* [**Data source:** UIS_ED_T_2016 **T4**]

- ❑ **Percentage of teachers less than five years away from retirement, ISCED 02, 1, 2, 3.GPV, 3.V**

Formula (for ISCED1)

*Percentage of teachers less than five years away from retirement (ISCED 1) = (Number of teachers teaching in ISCED 1 aged less than five years to the statutory retirement age for ISCED 1) / Total number of teachers in ISCED 1 * 100*

Data source: UIS_ED_T_2016 **T2, T7**

What indicators do we propose? (5)

- Mean age (year) of the teaching workforce, ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

Formula (for ISCED1):

*[Sum over age groups of the (number of teachers by age group in ISCED1 * MP of the age group)] / [total number of teachers in ISCED 1]*

Age groups in years	<30	30-39	40-49	50-59	>59
Midpoints	30	34.5	44.5	54.5	60

Detailed formula:

*[[(Number of teachers in ISCED1 in age group <30)*30] + [(Number of teachers in ISCED1 in age group 30-39)*34.5] + [(Number of teachers in ISCED1 in age group 40-49)*44.5] + [(Number of teachers in ISCED1 in age group 54.5)*54.5] + [(Number of teachers in ISCED1 in age group >59*60)] / [total number of teachers in ISCED 1]*

Data source: UIS_ED_T_2016 T2

What indicators do we propose? (6)

- Mean year of teaching experience of the teaching workforce, ISCED 02, 1, 2, 3, 2t3, 2t3.GPV, 2t3.V

Formula (for ISCED1):

*[Sum over teaching experience categories of the (number of teachers by teaching experience category in ISCED1 * corresponding Midpoint)] / [total number of teachers in ISCED 1]*

Teaching experience categories (years)	5 or less	6-10	11-15	16+
Midpoints	3	8	13	17

Data source: UIS_ED_T_2016 T4

What indicators do we propose? (7)

- **Average annual statutory teacher remuneration (public institutions only) as percentage of GDP per capita ISCED 02, 1, 2, 3.GPV, 3.V**

Formula:

*= $\frac{[[\text{annual total statutory teacher remuneration (gross statutory salary + additional bonuses) in public institution at a given level of education}] / [\text{total number (FTE, FY) of teachers at the same level of education}]]}{[\text{GDP per capita}]} * 100$*

Data source: UIS_ED_A_2016 **A9** or UIS_ED_T_2016 **T2** or **T3** and UIS_ED_T_2016 **T6**

What indicators do we propose? (8)

- ❑ **Statutory retirement age , ISCED 02, 1, 2, 3.GPV, 3.V (raw data)**

Data source: UIS_ED_T_2016 T7

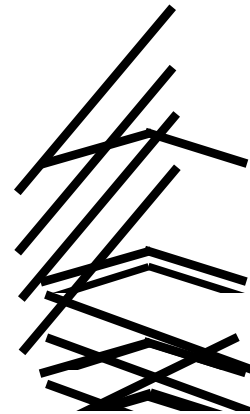
- ❑ **Annual statutory days of professional development activities and in-service training, ISCED 02, 1, 2, 3.GPV, 3.V (raw data)**

Data source: UIS_ED_T_2016 T7

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- UIS education survey website:
<http://www.uis.unesco.org/UISQuestionnaires/Pages/default.aspx>
 - UIS data centre: <http://www.uis.unesco.org/datacentre/pages/default.aspx>
 - UIS teachers webpage:
<http://www.uis.unesco.org/Education/Pages/teachers-statistics.aspx>
 - Thematic indicators for Education 2030 monitoring:
<http://www.uis.unesco.org/Education/Documents/43-indicators-to-monitor-education2030-FR.pdf>

Thank you !

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A review of the data submitted to the supplementary questionnaire on teachers

UIS Education Workshop for Anglophone Africa
Windhoek (Namibia), 19th July 2016

Omneya Fahmy

UNESCO Institute for Statistics

Outline

- Response rate
- Data quality; review of data submitted

Response rate

- Alarming low response rate
- Survey year 2015; 1 out of 23 countries responded
Survey year 2016; 2 out of 23 countries responded
(as of 17th July 2016)
- Lowest response rate to questionnaire T among all regions

General data issues

- Disaggregation of data by level of secondary education

Lower secondary	Upper secondary
All programmes	All programmes
ISCED 2	ISCED 3

- Teachers in secondary vocational programmes

Total secondary	
Vocational	
ISCED 25+35	

T2: Classroom teachers by teaching level of education, type of institution, sex and age group

- Data by age → mean age of teaching workforce

Classroom teachers		
Type	Sex	Age group (years)
	Males	<30
		30-39
		40-49
		50-59
		>59
		Age unknown
		Total

T3: Classroom teachers by teaching level of education, type of institution, sex and highest level of education completed

- Disaggregation by highest level of education completed
→ Percentage of teachers at each level of education completed

Classroom teachers		
Type	Sex	Highest level of education completed
	Males	ISCED 2 or below
		ISCED 3
		ISCED 4
		ISCED 5
		ISCED 6
		ISCED 7
		ISCED 8
		Unknown
		Total

T4: Classroom teachers in public and private institutions by teaching level of education, contract type, and teaching experience

- Data by teaching experience

Classroom teachers Public and private institutions	
Contract type	Teaching experience
Permanent	5 years or less
	6 to 10 years
	11 to 15 years
	16 or more years
	All permanent teachers
	5 years or less

T5: Newly recruited classroom teachers by teaching level of education, sex, contract type and training

- Data by level of education → teacher attrition rate at each level

Teaching level of education			
Primary	Lower secondary	Upper secondary	
All programmes	All programmes	All programmes	
ISCED 1	ISCED 2	ISCED 3	

- Data on *trained* newly recruited teachers

Permanent
Non-permanent
Unknown
All newly recruited teachers
<i>Of which: trained</i>

T6: Annual statutory teacher remuneration in public institutions, by teaching level of education, contract type and teaching experience

- Data by teaching experience

Contract type	Teaching experience	Remuneration
Permanent	In the first year of teaching	Annual gross statutory salary
		Additional bonuses
		Total remuneration
	With 15 years' teaching experience	Annual gross statutory salary
		Additional bonuses
		Total remuneration
	At the top of the salary scale	Annual gross statutory salary
		Additional bonuses
		Total remuneration

- Remuneration → Average annual statutory teacher remuneration (public institutions only) as a percentage of GDP per capita

T7: Statutory information on classroom teachers in public institutions by teaching level of education

- Statutory information at each level of education

Statutory information on classroom teachers Public institutions only	
Statutory retirement age	Males
	Females
Statutory minimum ISCED level of qualification required to teach	
Minimum number of years to progress from the minimum to the maximum statutory salary	
Annual statutory working hours	
Annual statutory teaching hours	
Annual statutory days of professional development activities and in-service training	

Thank you!