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2016 SURVEY OF FORMAL EDUCATION

Students and teachers (ISCED 5-8)

Windhoek, Namibia.

19 July 2016

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UNESCO Institute for Statistics

Objectives

- Understand the components of UIS; Questionnaire on Tertiary Statistics;
- Understand changes to the Questionnaire;
- Review response rates for the region;
- Understand indicators derived from UIS Questionnaire;
- Implication for future data collections.

Which levels of Education are collected in UIS Questionnaire C?

**Short-Cycle
Tertiary
(ISCED 5)**

**Bachelor' Degree
or Equivalent
(ISCED 6)**

**Master's or
Equivalent
(ISCED 7)**

**Doctorate
(ISCED 8)**

Components of UIS Questionnaire

- Comprised of nine sections(worksheets)

Instructions

**Contact
Information
and metadata**

**Level of
Education**

**Field of
Study**

**New Entrants
by Level of
Education**

**First Tertiary
Level of
Education**

**Country of
Origin**

Graduates

**Academic
Staff**

Overview of UIS Questionnaire on Tertiary Statistics- worksheet C1

C1: General information on the data collected in the questionnaire

Questionnaire code:	UIS_ED_C_2014	EN	8
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Country:	Vanuatu
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1. Please provide information on the person(s) responsible for completing this questionnaire.

Contact 1: Person in charge of completing the questionnaire:

Full name:	
Organization:	
Organization unit:	
Function:	
Email address:	
Phone number:	
Fax number:	

Contact 2: Head of the organization (if different from Contact 1):

Full name:	
Organization:	
Organization unit:	
Function:	
Email address:	
Phone number:	
Fax number:	

2. Please provide the website address(es) where national statistics on tertiary education are published.

National statistics:	
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3. Please provide information on the academic year, reference date for ages, and the main sources of data.

	Students and academic staff	Graduates
Academic year start (dd/mm/yyyy):		
Academic year end (dd/mm/yyyy):		
Reference date for ages (dd/mm/yyyy):		
Sources:		

4. Please indicate the criteria used to determine the country of origin of students.

It is recommended that the country of origin of students at the tertiary level is determined by the country in which they obtained the upper secondary qualification giving access to tertiary education. Where countries do not have access to this information alternative measures may be used. These include, in order of preference, the country of permanent or usual residence or of citizenship.

Sources of data
Reference year of **age data** may be different from **academic year**

Origin: Citizenship, Residency, Upper Secondary diploma, other?

Overview of UIS Questionnaire on Tertiary Statistics- worksheet C2

C2: Number of students by level of education, intensity of participation, type of institution and sex

			Students																				
			Short-cycle tertiary			Bachelor's or equivalent			Master's or equivalent			Doctoral or equivalent											
			All programmes			All programmes		Of which: first tertiary programmes	All programmes		Of which: first tertiary programmes	All programmes											
			ISCED 5			ISCED 6		ISCED 661 + 665 + 666	ISCED 7		ISCED 761 + 766	ISCED 8											
Males	Full- and part-time	Public institutions																					
		Private institutions																					
		Public and private institutions																					
Females	Full- and part-time	Public institutions																					
		Private institutions																					
		Public and private institutions																					
Males and females	Full- and part-time	Public institutions																					
		Private institutions																					
		Public and private institutions																					
	Full-time equivalents	Public and private institutions																					

ISCED 6

Bachelor's or Equivalent Degree:

Orientation: academic, professional or unspecified, theoretical or a combination of practical and some research, entry following ISCED 3, 4 or 5

ISCED 7

Master's or Equivalent: advanced academic and/or professional **research**, theoretical or a combination of practical, **complexity** and **specialization**; **access to Level 8**

ISCED 8

Advanced research qualification, Dissertation
At least three years of full-time equivalent study
Product of original and publishable research

First Tertiary Programmes – Worksheet C2

C2: Number of students by level of education, intensity of participation, type of institution and sex

			Students																	
			Short-cycle tertiary			Bachelor's or equivalent			Master's or equivalent			Doctoral or equivalent								
			All programmes			Of which: first tertiary programmes			All programmes			Of which: first tertiary programmes								
			ISCED 5			ISCED 6			ISCED 7			ISCED 8								
Males	Full- and part-time	Public institutions																		
		Private institutions																		
		Public and private institutions																		
Females	Full- and part-time	Public institutions																		
		Private institutions																		
		Public and private institutions																		
Males and females	Full- and part-time	Public institutions																		
		Private institutions																		
		Public and private institutions																		
	Full-time equivalents	Public and private institutions																		

“First Tertiary Programmes” are found within the ISCED levels 5, 6 and 7 programme and would typically include a stage of study that may **not** lead to the full completion of a Bachelor’s or Master’s or equivalent degree e.g. A programme of a shorter duration than would typically be required to meet completion requirements – **coded as 661 and 761** in Questionnaire C

Overview of UIS Questionnaire on Tertiary Statistics- worksheet C2 (codes)

C2: Number of students by level of education, intensity of participation, type of institution and sex

			Students							
			Short-cycle tertiary	Bachelor's or equivalent		Master's or equivalent		Doctoral or equivalent		
			All programmes	All programmes	Of which: first tertiary programmes	All programmes	Of which: first tertiary programmes	All programmes		
			ISCED 5	ISCED 6	ISCED 661 + 665 + 666	ISCED 7	ISCED 761 + 766	ISCED 8		
Males	Full- and part-time	Public institutions								
		Private institutions								
		Public and private institutions								
Females	Full- and part-time	Public institutions								
		Private institutions								
		Public and private institutions								
Males and females	Full- and part-time	Public institutions								
		Private institutions								
		Public and private institutions								
	Full-time equivalents	Public and private institutions								

Code 661 – Insufficient for level completion – cumulative duration less than 3 years

Code 665 – first degree (3-4 Years)

Code 666- Long first degree (more than 4 years)

Orientation is not specified

Code 761 - Insufficient for level completion

Code 766 - Long first degree (at least 5 years)

Fields of Education – worksheet C3

C3: Number of students by level of education, field and sex

Students Full- and part-time		Short-cycle tertiary	Bachelor's or equivalent	Master's or equivalent	Doctoral or equivalent	Total tertiary
Sex	Fields of education	ISCED 5	ISCED 6	ISCED 7	ISCED 8	ISCED 5-8
Males and females	01 Education					
	02 Arts and humanities					
	03 Social sciences, journalism and information					
	04 Business, administration and law					
	05 Natural sciences, mathematics and statistics					
	06 Information and communication technologies					
	07 Engineering, manufacturing and construction					
	08 Agriculture, forestry, fisheries and veterinary					
	09 Health and welfare					
	10 Services					
	Not known or unspecified					
	Total: All fields of education					

Additional Categories – worksheet C3

Old	New
	01 Education
	02 Arts and humanities
Social sciences, business and law	03 Social sciences, journalism and information
	04 Business, administration and law
	05 Natural sciences, mathematics and statistics
Science	+Natural parks and wildlife
	06 Information and communication technologies
	07 Engineering, manufacturing and construction
	+Environmental protection
Agriculture, forestry and fishery	08 Agriculture, forestry, fisheries and veterinary
- Natural parks and wildlife	09 Health and welfare
Services	10 Services
- Environmental protection	Not known or unspecified
	Total: All fields of education

New Entrants – worksheet C4

C4: Number of new entrants and first-time new entrants by level of education and sex

	New entrants to the ISCED level				First-time new entrants to tertiary education		
	Short-cycle tertiary	Bachelor's or equivalent	Master's or equivalent	Doctoral or equivalent	Short cycle tertiary	Bachelor's or equivalent	Master's or equivalent
	ISCED 5	ISCED 661+665+666	ISCED 761+766+767	ISCED 8	ISCED 5	ISCED 661+665+666	ISCED 761+766
Males							
Females							
Males and females							

New Entrants:

Students who, during the reference academic year, enter a programme at a given ISCED level for the first time

First Time new entrants: students that enter the programme without having to complete the preceding level of education - these students have not previously been enrolled in any other programme at the tertiary level

New entrants to first tertiary programmes- Worksheet C5

C5: Number of students and new entrants to first tertiary programmes by age and sex

Sex	Age	Students	
		All programmes ISCED 5, 6, 7 and 8	Total tertiary Of which: new entrants to first tertiary programmes ISCED 5, 661, 665, 666, 761 and 766
Males	<15		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		
	32		
	33		
34			
35-39			
40-44			
45-49			
50-54			
55-59			
>59			
Age unknown			
Total			

First tertiary programmes – would exclude – second or further programmes **within the same ISCED level** e.g. advanced or honor programmes immediately following completion of an ISCED level. **Would Include:**

- Short-cycle tertiary education programmes at ISCED level 5 (at least two years);
- Bachelor's or equivalent first degree programmes** at ISCED level 6 (3-4 years);
- Bachelor's or equivalent long first degree programmes** at ISCED level 6 (**more than four years**);
- Or Master's or equivalent long first degree programmes** at ISCED level 7 (**at least five years**).

Country of Origin – worksheet C6

C6: Number of students in tertiary education by country of origin and sex

Sex	Region	Country	Total tertiary ISCED 5-8
	Africa	Algeria	
		Angola	
		Benin	
		Botswana	
		Burkina Faso	
		Burundi	
		Cabo Verde	
		Cameroon	
		Central African Republic	
		Chad	
		Comoros	
		Congo	
		Côte d'Ivoire	
		Democratic Republic of the Congo	
		Djibouti	
		Egypt	
		Equatorial Guinea	
		Eritrea	
		Ethiopia	
		Gabon	
		Gambia	
		Ghana	
		Guinea	
		Guinea-Bissau	
		Kenya	
		Lesotho	
		Liberia	
		Libya	
		Madagascar	
		Malawi	
		Mali	
		Mauritania	
		Mauritius	
		Morocco	
	Mozambique		
	Namibia		
	Niger		
	Nigeria		
	Rwanda		
	Sao Tome and Principe		
	Senegal		
	Seychelles		

6 regions:

- Africa
- North America
- Latin America and the Caribbean
- Asia
- Europe
- Oceania

Graduates – worksheet C7

C7: Number of graduates by level of education, field and sex

Sex	Field	Graduates														
		Short-cycle tertiary		Bachelor's or equivalent				Master's or equivalent				Doctoral or equivalent		Total tertiary		
		All programmes		All programmes		Of which: first degree programmes ISCED 665 + 666		All programmes		Of which: first degree programmes ISCED 766		All programmes		All programmes		
		ISCED 5		ISCED 6				ISCED 7				ISCED 8		ISCED 5-8		
Males	1 Education															
	2 Humanities and arts															
	3 Social sciences, business and law															
	4 Science															
	5 Engineering, manufacturing and construction															
	6 Agriculture															
	7 Health and welfare															
	8 Services															
	Not known or unspecified															
Total: All fields of education																
Females	1 Education															
	2 Humanities and arts															
	3 Social sciences, business and law															
	4 Science															
	5 Engineering, manufacturing and construction															
	6 Agriculture															
	7 Health and welfare															
	8 Services															
	Not known or unspecified															
Total: All fields of education																
Males and females	1 Education															
	2 Humanities and arts															
	3 Social sciences, business and law															
	4 Science															
	5 Engineering, manufacturing and construction															
	6 Agriculture															
	7 Health and welfare															
	8 Services															
	Not known or unspecified															
Total: All fields of education																

Of which: 665: First degree (3-4 years)

Of which 666: Long first degree (more than 4 years)

Of which 766: Master's or Equivalent - Long first degree (at least 5 years)

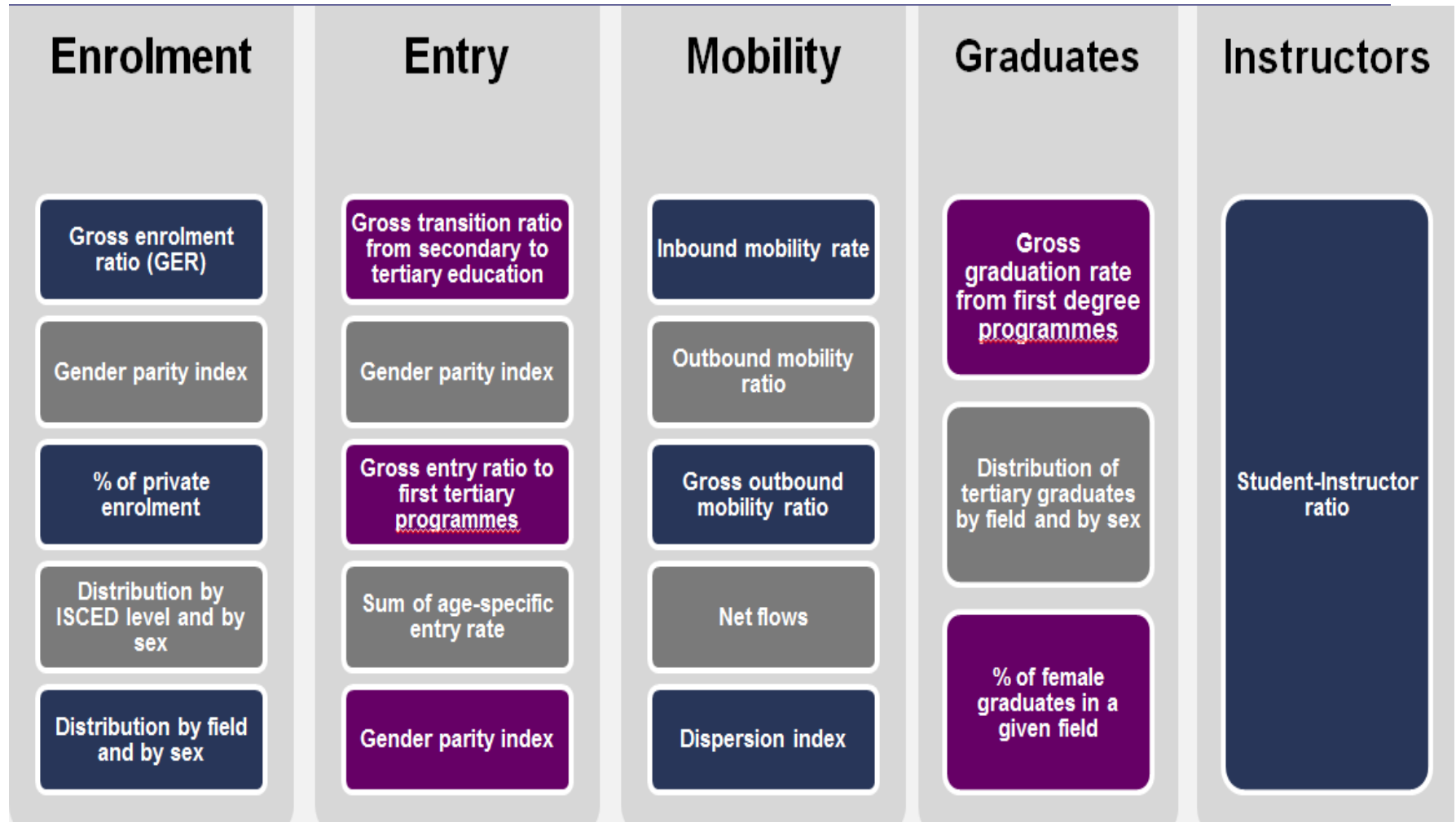
Note:

Academic Staff – worksheet C8

C8: Number of academic staff by level of education, employment status, type of institution and sex

			Academic staff				
			Total tertiary	Of which: Short-cycle tertiary			
			ISCED 5-8	ISCED 5			
Males	Full- and part-time	Public institutions					
		Private institutions					
		Public and private institutions					
Females	Full- and part-time	Public institutions					
		Private institutions					
		Public and private institutions					
Males and females	Full- and part-time	Public institutions					
		Private institutions					
		Public and private institutions					
	Full-time equivalents	Public and private institutions					

Which indicators are derived from UIS Questionnaire on Tertiary Statistics?



Gross Enrollment Ratio (Tertiary)

Definition: Number of students enrolled in a given level of education regardless of age, expressed as a percentage of the total school-age population corresponding to the same level of education.

Purpose:

To show the general level of participation in a given level of education. It indicates the capacity of the education system to enroll students of a particular age group. It can also be a complementary indicator to Net enrolment rate (NER) by indicating the extent of over-aged and under-aged enrolment.

Calculation:

Divide the number of students enrolled in a given level of education regardless of age by the population of the age group which officially corresponds to the given level of education, and multiply the result by 100.

Distribution of students by field of education

Definition:

Enrolment in each field of education at the tertiary level, expressed as a percentage of total enrolment in tertiary education.

Data Required:

Enrolment in tertiary education by field of education.

Calculation:

Number of Students enrolled in each field of education/total enrolment in tertiary education*100

Graduates

Gross graduation ratio from first degree programmes (at ISCED 6 and 7) in tertiary education

Definition

Number of graduates from first degree programmes (at ISCED 6 and 7) expressed as a percentage of the population of the theoretical graduation age of the most common first degree programme.

Distribution of graduates by field of education

Definition:

Number of graduates at the tertiary level from each field of education, expressed as a percentage of the total number of graduates in tertiary education.

Purpose:

To show the distribution of tertiary graduates over different fields of education. It also reflects the development of tertiary education in terms of the range of fields offered as well as the supply of qualified human resources in different specializations.

Calculation Method:

Divide the number of graduates in each field of education by the total number of graduates in tertiary education, and multiply the result by 100.

Outbound Mobility Ratio

Outbound mobility ratio

Number of students **from a given country studying abroad**, expressed as a percentage of total tertiary enrolment in that country.

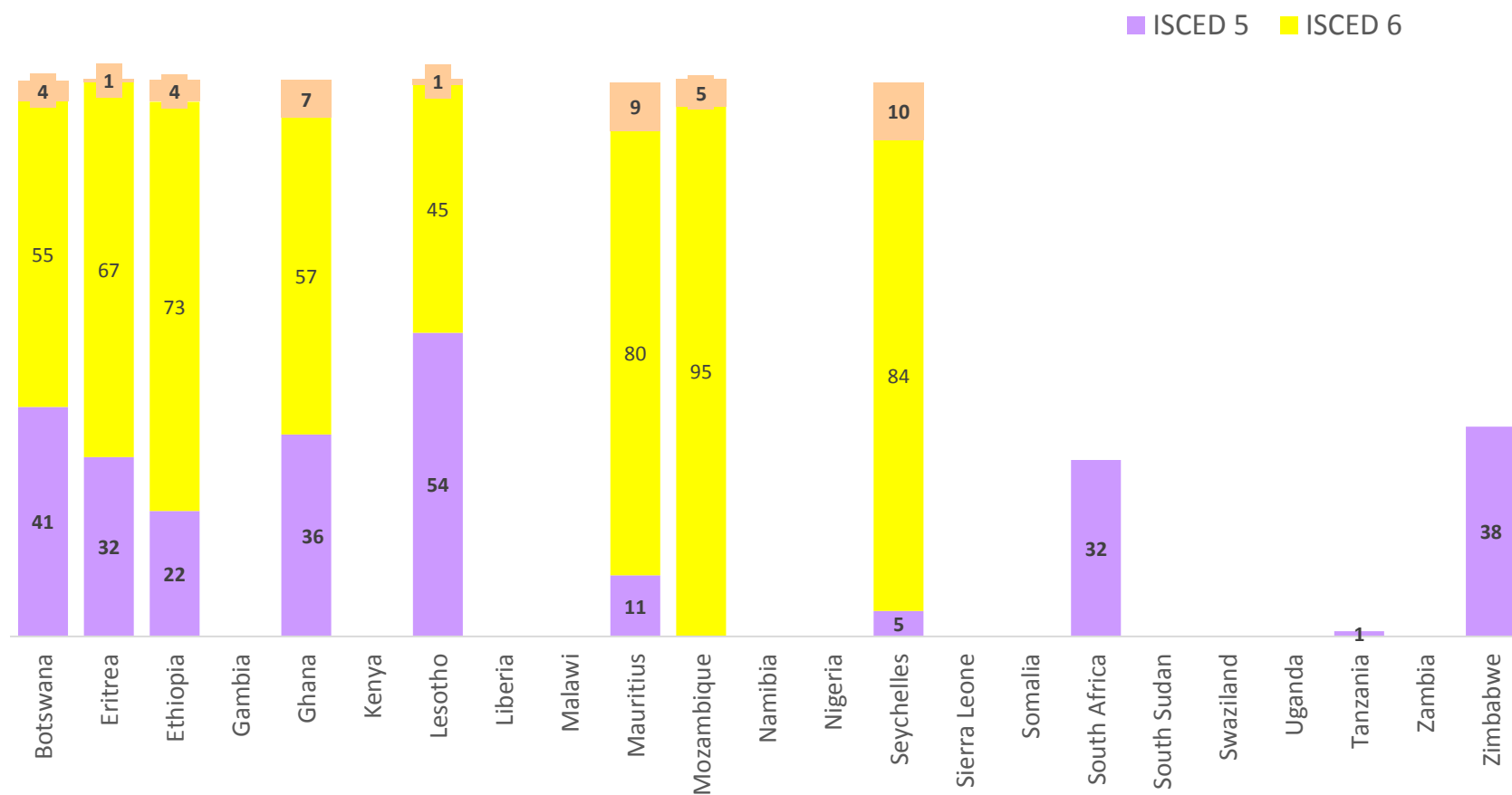
Inbound Mobility Rate

Inbound mobility rate

Number of students **from abroad studying in a given country**, expressed as a percentage of total tertiary enrolment in that country.

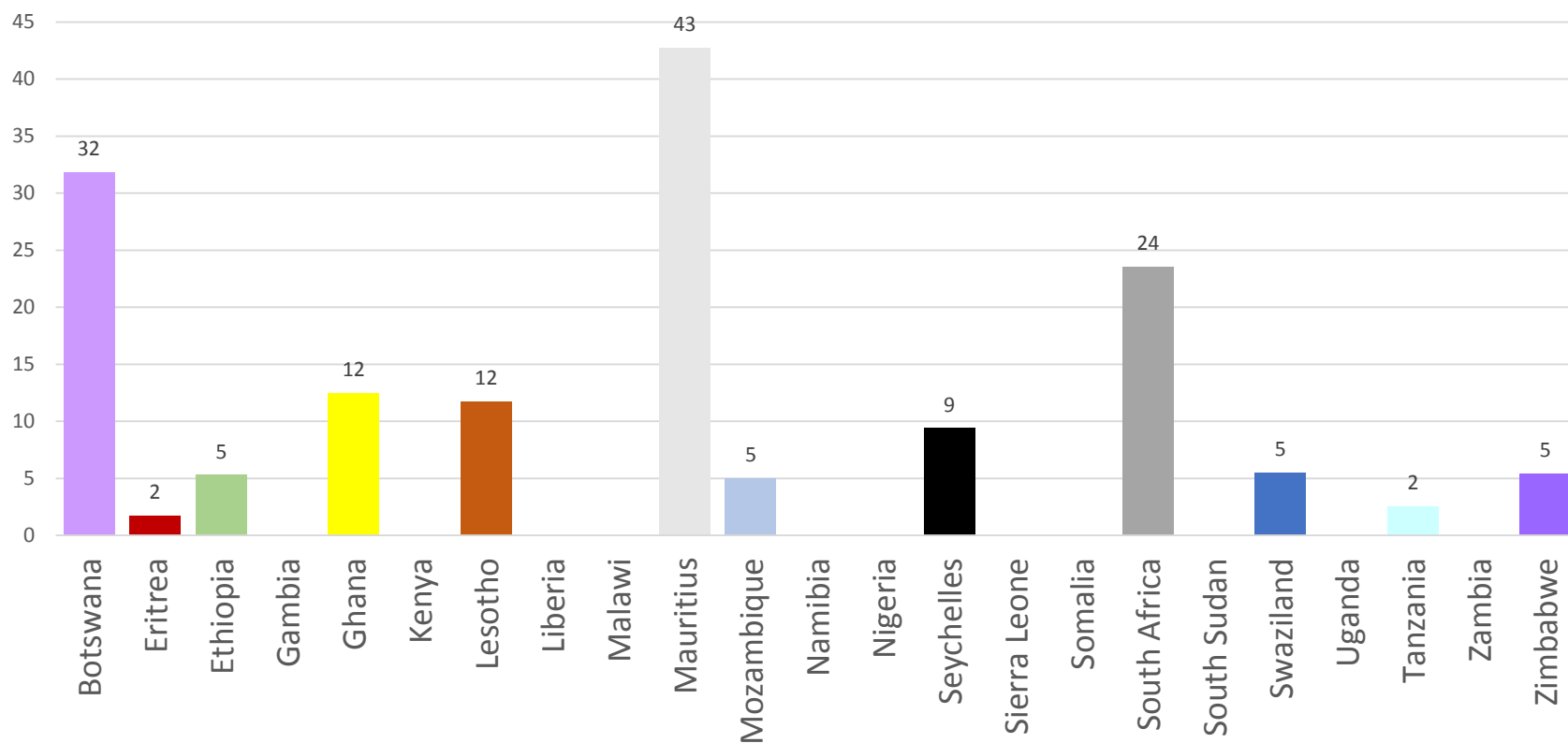
Enrollment in Tertiary (%)

Enrollment in ISCED levels 5, 6 and 7 (%), 2014 or 2013



Participation in Tertiary (%females)

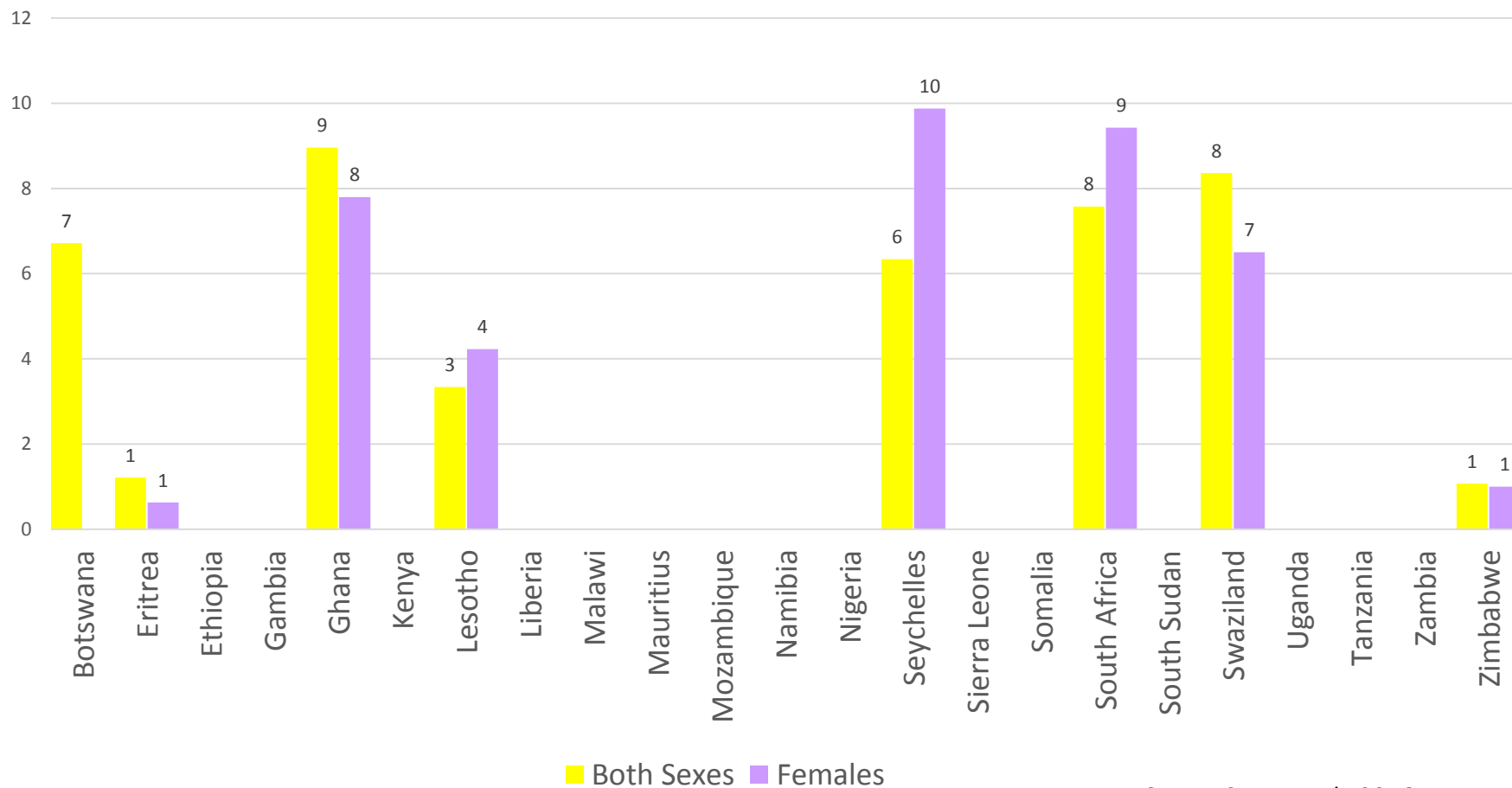
Gross Enrollment Ratio - Tertiary (females), 2014 or 2013



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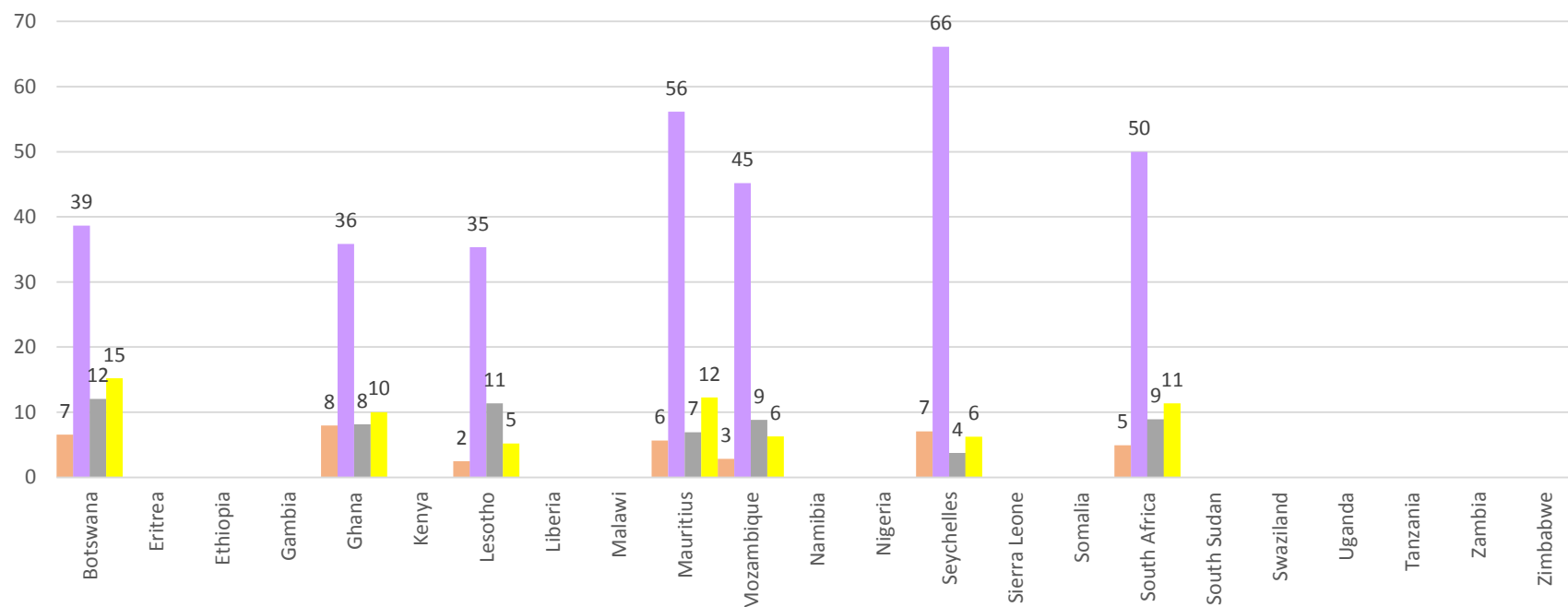
Tertiary Graduates – ISCED 6 and 7

Gross Graduation Ratio from ISCED 6 and 7 (first degree), 2014 or 2013



Field of Study

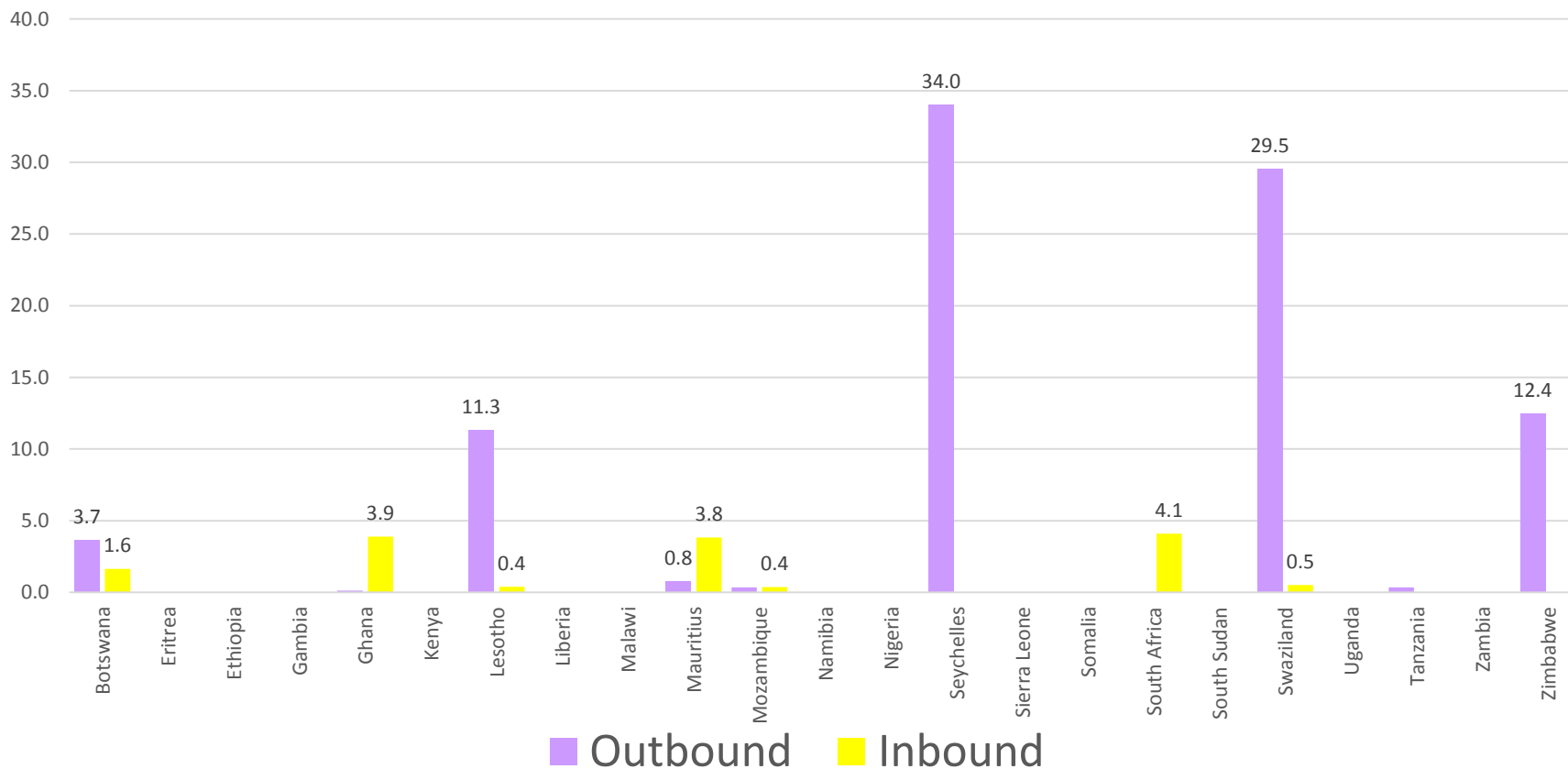
% of students by Field of Study (Both Sexes, 2014 or 2013)



UIS Data Centre July 2016

Mobility Indicators

Outbound Mobility Ratio from Africa/ Inbound Mobility Rate



UIS Data Centre July 2016

Implications for future data collections?

Sustainable Development Goal 4 on Education (SDG 4)

4.b By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries

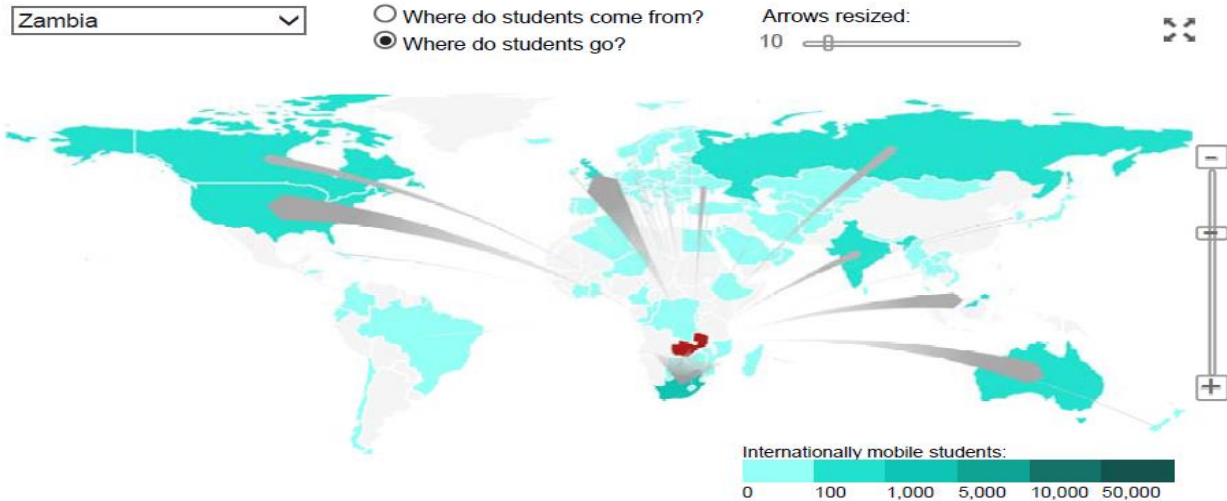
Resources	35. Number of higher education scholarships awarded by beneficiary country	
	36. Volume of official development assistance (ODA) flows for higher education scholarships by sector and type of study	36 is global indicator (4.b.1)

Visit UIS Data Centre

GLOBAL FLOW OF TERTIARY-LEVEL STUDENTS

Where do students go to study? Where do they come from? UIS data on the mobility of students shed light on the shifting demand for higher education, particularly in the developing world.

To explore the data select a country from the menu, or click on the map.



Zambia		Key Indicators	
Country of origin	Destination country		
	South Africa	1,066	Students abroad: Total number of mobile students abroad 3,994 (% of total mobile students) ... Outbound mobility ratio ... Gross outbound enrolment ratio 0.3
	United Kingdom	508	
	United States	477	
	Australia	400	
	Malaysia	290	
	Russian Federation	167	
	Canada	162	
	India	140	
	Ukraine	94	
	Botswana	70	
	Saudi Arabia	49	Students hosted: Total number of mobile students hosted ... (% of total mobile students) ... Inbound mobility rate ...
	Zimbabwe	45	
	Cuba	43	
	Norway	36	
	Finland	32	
	Ireland	32	
No data			

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