Higher Education Attributes

To clarify the meaning of attributes, general terms and categories used to characterize higher education statistics are described first. In this task, we follow definitions and classifications from the following sources: ISCED 97 (UNESCO, 2006) and UNESCO Institute for Statistics Online Education Glossary (http://www.uis.unesco.org/glossary). The description of the terms and categories is followed by a description of the attributes.

1. International Standard Classification of Education - ISCED

ISCED represents a classification scheme used to classify educational programs into internationally comparable levels.

ISCED levels corresponding to higher education are ISCED 5 and ISCED 6. The ISCED 5 denotes the first stage of higher education, while the ISCED 6 represents those programs that lead to the award of an advanced research qualification. The ISCED 5 programs are further divided into 5A and 5B categories. The 5A includes theoretically-based programs preparing students for the ISCED 6 level programs or for high-skills professions.

2. Expenditure on education

Current expenditure – Expenditure for goods and services consumed within the current year including expenditure on: staff salaries, pensions and benefits, contracted or purchased services, books and teaching materials, welfare services, subsides to students and households, furniture and minor equipment, minor repairs, fuel, telecommunications, travel, insurance and rents.

Capital expenditure – Expenditure for assets that last longer than one year, including expenditure for construction, renovation and major repairs of buildings and the purchase of heavy equipment or vehicles.

3. Attributes

ATTRIBUTE	DESCRIPTION
Gross enrolment ratio. ISCED 5 and 6. Total	Gross enrolment ratio represents the number of students
Gross enrolment ratio. ISCED 5 and 6. Male	enrolled in higher education, regardless of their age, expressed
Gross enrolment ratio. ISCED 5 and 6. Female	as a percentage of the population in the five-year age group
	following on from leaving secondary school, showing a general
	level of participation in higher education.
Gender parity index for gross enrolment ratio.	Indicates the opportunity for females to enroll into higher
Tertiary	education programs. Represents a ratio of female to male values
	of "Gross enrolment ratio", computed by dividing female value
	of the attribute by that of a male.
Distribution of students (%). ISCED 5A	Indicates a level of higher education sector development in
Distribution of students (%). ISCED 5B	terms of the range of fields offered and the capacity of each
Distribution of students (%). ISCED 6	field.
Percentage of female students. ISCED 5A	Represents the number of female students enrolled in the
Percentage of female students. ISCED 5B	specific ISCED level, expressed as a percentage of the total

ATTRIBUTE	DESCRIPTION
Percentage of female students. ISCED 6	enrolment in the same level. Used to assess a gender disparity.
Percentage of female students. Total	Represents the number of female students enrolled in higher
	education, expressed as a percentage of the total higher
	education level enrolment.
Gross completion rate. ISCED 5A. Total	Represents the number of graduates in ISCED 5A programs,
Gross completion rate. ISCED 5A. Male	expressed as a percentage of the population of the age at which
Gross completion rate. ISCED 5A. Female	students theoretically finish the most common ISCED 5A
•	program in a country.
Gender parity index for gross completion rate. ISCED 5A	Indicates the opportunity for females to complete the ISCED 5A programs.
Percentage of female graduates in tertiary	The number of female graduates, expressed as a percentage of
education	all graduates in higher education.
Inbound mobility rate	The number of students from abroad studying in a given
·	country, expressed as a percentage of the total enrolment in
	higher education in that country.
Outbound mobility ratio (%)	The number of students from a given country that study abroad
	as a percentage of the total enrolment in higher education in that
	country.
Gross outbound enrolment ratio	The number of students from a given country that study abroad,
	expressed as a percentage of the higher education student age
	population in that country. Indicates a general level of
	participation in programs at foreign higher education
	institutions.
Percentage of tertiary graduates in education	Distribution of graduates over different ISCED fields reflects
Percentage of tertiary graduates in humanities	the development of higher education system in terms of the
and arts	range of fields offered.
Percentage of tertiary graduates in social	
sciences, business and law	
Percentage of tertiary graduates in science	
Percentage of tertiary graduates in	
engineering, manufacturing and construction	
Percentage of tertiary graduates in agriculture	
Percentage of tertiary graduates in health and welfare	
Percentage of tertiary graduates in services	
Percentage of tertiary graduates in unspecified	
programs Female tertiary graduates as percentage of all	Family graduates in each ISCED field as a negrountees of all
graduates in education	Female graduates in each ISCED field as a percentage of all graduates in the same field.
Female tertiary graduates as percentage of all	graduates in the same neid.
graduates in humanities and arts	
Female tertiary graduates as percentage of all	
graduates social sciences, business and law	
Female tertiary graduates as percentage of all	
graduates in science	
Female tertiary graduates as percentage of all	
graduates in engineering, manufacturing and	
construction	
Female tertiary graduates as percentage of all	
graduates in agriculture	
Female tertiary graduates as percentage of all	
graduates in health and welfare	
Female tertiary graduates as percentage of all	
graduates in services	
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DESCRIPTION
Denotes an average number of students per professor, indicating the level of human resources dedicated to higher education.
The number of students enrolled in higher education in a given academic-year per 100 000 inhabitants, indicating the density of students within country's population.
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Public expenditure per student enrolled in higher education,
expressed as a percentage of GDP per capita.
The spending by nature (salaries, other current, total current and
capital), expressed as a percentage of total expenditure on higher education. Salaries and other current add up to the total
current expenditure.
Total expenditure on higher education, expressed as a percentage of GDP.
The spending on higher education, distributed by source (public
and private), expressed as a percentage of GDP.
Public current expenditure on higher education, expressed as a
percentage of total public current expenditure on education.
Indicates the relative emphasis of government spending on
higher education within the overall educational expenditure.
Expenditure for higher education, expressed as a percentage of
total expenditure on education.
GHER EDUCATION)
Proportion of country's wealth that has been spent on education
during a given year.
Public expenditure per pupil/student, expressed as a percentage
of GDP per capita.
Indicates government's policy emphasis on education relative to other public investments, showing how committed the government is to investing in the development of human capital.
The share of total current government expenditure intended for
current expenditure on education.
Proportion of country's wealth that has been allocated for public
current expenditures on education.
Indicates the pattern of government spending on education in terms of the relative weight between the current and capital expenditure.

ATTRIBUTE	DESCRIPTION
Total expenditure on educational institutions	Total expenditure on education, expressed as a percentage of
and administration as a % of GDP. All sources	GDP.
Total expenditure on educational institutions	The spending on education, distributed by source (public,
and administration as a % of GDP. Public	private and international), expressed as a percentage of GDP.
sources	
Total expenditure on educational institutions	
and administration as a % of GDP. Private	
sources	
Total expenditure on educational institutions	
and administration as a % of GDP.	
International sources	

References

UNESCO (2006) ISCED 1997. Source: http://www.uis.unesco.org/TEMPLATE/pdf/isced/ISCED_A.pdf.