INDICATOR A3

CURRENT TERTIARY GRADUATION AND SURVIVAL RATES

This indicator first shows the current tertiary graduate output of educational systems, *i.e.* the percentage of the population in the typical age cohort for tertiary education that follows and successfully completes tertiary programmes, as well as the distribution of tertiary graduates across fields of education. The indicator then shows survival rates at the tertiary level, *i.e.* the proportion of new entrants into the specified level of education who successfully complete a first qualification. Tertiary education covers a wide range of programmes, but overall serves as an indicator of the rate at which countries produce advanced knowledge. A traditional university degree is associated with completion of "type A" tertiary courses; "type B" generally refers to shorter and often vocationally oriented courses. The indicator also sheds light on the internal efficiency of tertiary educational systems.

Key results

Chart A3.1. Tertiary-type A graduation rates (2000, 2004)

The charts show the number of students of any age completing tertiary-type A programmes for the first time, in 2000 and 2004, as a percentage of the age-group normally completing each level. Although not all of those completing are in this age band, this figure gives an indication of how many of today's young people are obtaining a high-level qualification.

■ 2000 ■ 2004

On average across the 24 OECD countries with comparable data, 35% of those at the typical age of graduation have completed the tertiary-type A level of education – a figure that ranges from around 20% or less in Austria, the Czech Republic, Germany and Turkey to more than 40% in Australia, Denmark, Finland, Iceland, the Netherlands, New Zealand, Norway and Poland. In virtually every country for which comparisons are available, tertiary-type A graduation rates increased between 2000 and 2004.



1. Year of reference 2003.

2. Gross graduation rate may include some double counting. Countries are ranked in descending order of the graduation rates for tertiary-type A education in 2004. Source: OECD. Table A3.1. See Annex 3 for notes (www.oecd.org/edu/eag2006). StatLink: http://dx.doi.org/10.1787/436145613668

Other highlights of this indicator

- Tertiary-type A graduation rates tend to be higher in countries where the programmes provided are mainly of shorter duration.
- The graduation rate is 9% at the tertiary-type B level and 1.3% for programmes leading to advanced research qualifications.
- On average, some 30% of tertiary-type A students fail to successfully complete these programmes though there is marked variation from country to country. The highest tertiary-type A "survival rates" are reported by Ireland, Japan and Korea, at over 80% while the survival rates for Mexico, New Zealand and the United States are just over 50%. Tertiary-type B survival rates are on average lower than those for type A programmes.

INDICATOR A3

Policy context

Not only is upper secondary graduation becoming the norm, but also, the majority of students are now graduating from upper secondary programmes designed to provide access to tertiary education; this is leading to increased enrolment in tertiary programmes (see Indicators A2 and C2). Countries with high graduation rates at the tertiary level are also the ones most likely to be developing or maintaining a highly skilled labour force.

Moreover, specific skills and knowledge in science are of particular interest as they increasingly represent a principal source of innovation and growth in knowledge-based economies (see Indicator A10). Differences among countries in the output of tertiary graduates by field of education are likely to be influenced by the relative rewards in the labour market for different fields, as well as the degree to which the market drives field selection in a particular country.

Tertiary level drop out and survival rates can be useful indicators of the internal efficiency of tertiary education systems. However, students' specific reasons for leaving a tertiary programme are varied: students may realise that they have chosen the wrong subject or educational programme; they may fail to meet the standards set by their educational institution, particularly in tertiary systems that provide relatively broad access; or they may find attractive employment before completing their programme. Dropping out is not necessarily an indication of failure by individual students, but high dropout rates may well indicate that the education system is not meeting the needs of its clients. Students may not find that the educational programmes offered meet their expectations or their labour market needs. It may also be that programmes take longer than the number of years which students can justify being outside the labour market.

Evidence and explanations

Tertiary graduation rates show the rate at which each country's education system produces advanced knowledge. But tertiary programmes vary widely in structure and scope among countries. Tertiary graduation rates are influenced both by the degree of access to tertiary programmes and by the demand for higher skills in the labour market. They are also affected by the way in which the degree and qualification structures are organised within countries.

Graduation rates at the tertiary level

This indicator distinguishes among three different categories of tertiary qualifications: degrees at the tertiary-type B level (ISCED 5B); degrees at the tertiary-type A level (ISCED 5A); and advanced research qualifications at the doctorate level (ISCED 6).

Tertiary-type A programmes are largely theoretically based and are designed to provide qualifications for entry into advanced research programmes and professions with high skill requirements. Countries differ in the way in which tertiary-type A programmes are organised. The institutional framework may be universities or other institutions. The duration of programmes leading to a first tertiary-type A qualification ranges from three years (*e.g.* the Bachelor's degree in many colleges in Ireland and the United Kingdom in most fields of study, and the *Licence* in France) to five years or more (*e.g.* the *Diplom* in Germany).

Whereas in many countries there is a clear distinction between first and second university degrees, (*i.e.* undergraduate and graduate programmes), this distinction does not exist everywhere. In some systems, degrees that are comparable internationally to a Master's degree level are

obtained through a single programme of long duration. To ensure international comparability, it is therefore necessary to compare degree programmes of similar cumulative duration, as well as completion rates for first-degree programmes.

To allow for comparisons that are independent of differences in national degree structures, tertiarytype A degrees are subdivided in accordance with their total theoretical durations of studies. Specifically, the OECD classification divides degrees into those of medium (three to less than five years), long (five to six years) and very long (more than six years) duration. Degrees obtained from short programmes of less than three years' duration are not considered equivalent to the completion of the tertiary-type A level of education and are therefore not included in this indicator. Second-degree programmes are classified according to the cumulative duration of the first- and second-degree programmes. Those individuals who already hold a first degree are netted out.

Tertiary-type A graduation rates

On average across the 24 OECD countries with comparable data, 35% of persons at the typical age of graduation completed tertiary-type A education in 2004. This figure ranged from around 20% or less in Austria, the Czech Republic, Germany and Turkey to more than 40% in Australia, Denmark, Finland, Iceland, the Netherlands, New Zealand, Norway and Poland (Table A3.1).

In virtually every country for which comparable data are available, tertiary-type A graduation rates increased between 2000 and 2004, often quite substantially. The most significant increase in type A graduation rates was reported in Italy where the rate doubled to 37%, though this was largely a result of structural change. Reform in the Italian tertiary system in 2002 allowed university students who had originally enrolled on programmes with a long duration to attain a degree after three years of study (Chart A3.1).



Chart A3.2. Tertiary-type A graduation rates, by duration of programme (2004) *Percentage of tertiary-type A graduates to the population at the typical age of graduation*

1. Year of reference 2003.

2. 3-to-less-than-5-year programmes include 5-to-more-than-6-year programmes.

3. Gross graduation rate may include some double counting.

Countries are ranked in descending order of tertiary-type A graduation rates.

Source: OECD. Table A3.1. See Annex 3 for notes (www.oecd.org/edu/eag2006).

StatLink: http://dx.doi.org/10.1787/436145613668

Tertiary-type A: the shorter the programme, the higher the participation and graduation rates

There is considerable variation in the form and structure of tertiary-type A programmes among countries, notably in the length of programmes that are offered (Chart A3.2). What is evident is that overall, tertiary-type A graduation rates tend to be higher in countries where the programmes provided are mainly of a shorter duration. For example, in Austria, the Czech Republic, France, Germany, the Slovak Republic and Switzerland, the majority of students complete programmes of at least five years' duration and the tertiary-type A graduation rates are below 30%. In contrast, type A graduation rates are around 40% or more in Australia, New Zealand and the United Kingdom, where programmes of three to less than five years are the norm. Turkey provides a notable exception to this trend: despite typically providing short tertiary-type A graduation rate is the lowest among OECD countries.

To summarise this trend, the tertiary-type A graduation rate for OECD countries where the majority of first degrees are obtained in shorter programmes averages some 40% of the typical age cohort, compared with 29% for OECD countries where the majority of first degrees are obtained in programmes of long or very long duration.

Tertiary-type B graduation rates

Tertiary-type B programmes are classified at the same level of competencies as tertiary-type A programmes, but are more occupationally oriented and usually lead to direct labour market access. The programmes are typically of shorter duration than type A programmes – usually two to three years – and generally are not intended to lead to university-level degrees. Graduation rates for tertiary-type B programmes averaged some 9% of an age cohort amongst the 21 OECD countries with comparable data. (Table A3.1). In fact, graduation from tertiary-type B programmes is a sizeable feature of the tertiary system in only a few OECD countries, most notably in Ireland, Japan and New Zealand, where over 20% of the age cohort obtained type B qualifications in 2004.

Trends in the provision of and graduation from tertiary-type B programmes are variable among countries (Chart A3.3). For instance, in Spain, a sharp rise in type B graduation rates between 2000 and 2004 is attributable to the development of a new advanced level, specific vocational training programmes. In contrast, type B programmes in Finland are being phased out and the proportion of the age cohort graduating from these programmes has consequently fallen rapidly over the same period.

Advanced research qualification rates

Across the 29 OECD countries with comparable data, an average of 1.3% of the population obtained an advanced research qualification (such as a PhD) in 2004. The percentages range from 0.1% in Mexico to over 2% in Austria, Germany, Portugal, and Switzerland, to over 3% in Sweden (Table A3.1).



Chart A3.3. Tertiary-type B graduation rates (2000, 2004)

Percentage of tertiary-type B graduates to the population at the typical age of graduation

Box A3.1. Graduation rates by field of education and gender

Changing opportunities in the job market, differences in earnings among occupations and sectors, and the admission policies and practices of tertiary education institutions may all affect in which field students choose to study. In turn, the relative popularity of the various fields of education affects the demand for courses and teaching staff, as well as the supply of new graduates. The distribution of tertiary graduates across fields sheds light on the relative importance of the different fields from country to country, as well as on the relative proportion of female graduates in those fields. For more information, see *Education at a Glance 2004* (OECD, 2004c), Tables A4.1 and A4.2. For a data update, see *Education at a Glance 2006* Tables A3.3, A3.4 and A3.5 on the Web at *http://dx.doi.org/10.1787/436145613668*.

Survival rates at the tertiary level

On average across 21 OECD countries for which data are available, some 30% of tertiarytype A students fail to successfully complete the programmes they undertake. Survival rates differ widely among OECD countries. In Mexico, New Zealand and the United States only just over 50% of those who enter tertiary-type A programme go on to successfully complete their programmes in contrast to their counterparts in Ireland and Korea where the survival rates are 83% and in Japan where the rate is 91% (Chart A3.4). Chart A3.4. Survival rates in tertiary-type A education (2000, 2004)

Number of graduates divided by the number of new entrants in the typical year of entrance to the specified programme



Countries are ranked in descending order of tertiary-type A survival rates in 2004. Source: OECD. Table A3.2. See Annex 3 for notes (www.oecd.org/edu/eag2006).

StatLink: http://dx.doi.org/10.1787/436145613668

Notably, in each of the three countries where survival rates are highest, tertiary-type A programmes are predominantly of a shorter duration; three to five years. Interestingly, entry rates to tertiary-type A programmes for these countries are below the OECD average, whereas in New Zealand, Sweden and the United States – where survival rates are among the lowest in comparison – entry rates are relatively high. Mexico, on the other hand, has one of the lowest entry rates to type-A programmes among OECD countries and the highest failure rate from these programmes.

Tertiary-type B survival rates are, at 62%, somewhat lower than those for tertiary-type A programmes, and again there is wide country variation. Type B survival rates range from above 80% in the Flemish Community of Belgium and Japan to below 40% in Greece. In general, tertiary-type B programmes are of a shorter duration than tertiary-type A programmes. However, interestingly, in the Flemish community of Belgium, the majority of students graduate from medium length type B programmes (the only tertiary-type B programme option) and the country has the second highest survival rates at the tertiary-type B level, just after Japan, for which the breakdown by the duration of studies is not available (Table A3.2).

Among the 12 OECD countries with comparable data, survival rates from advanced research programmes range from 34% in Greece to almost 90% in Italy, Japan and Mexico.

Definitions and methodologies

The data for the academic year 2003-2004 are based on the UOE data collection on education statistics that is administered annually by the OECD.

Tertiary graduates are those who obtain a tertiary qualification in the specified reference year. This indicator distinguishes among different categories of tertiary qualifications: *i*) tertiary-type B qualifications (ISCED 5B); *ii*) tertiary-type A qualifications (ISCED 5A); and *iii*) advanced research degrees of doctorate standard (ISCED 6). For some countries, data are not available for the categories requested. In such cases, the OECD has assigned graduates to the most appropriate category (see Annex 3 at *www.oecd.org/edu/eag2006* for a list of programmes included for each country at the tertiary-type A and tertiary-type B levels). Tertiary-type A degrees are also subdivided by their corresponding total theoretical duration of studies, to allow for comparisons that are independent of differences in national degree structures.

In Table A3.1, graduation rates for first tertiary programmes (tertiary-type A and tertiary-type B) are calculated as gross graduation rates. In order to calculate gross graduation rates, countries identify the age at which graduation typically occurs (see Annex 1). The number of graduates, regardless of their age, is divided by the population at the typical graduation age. In many countries, defining a typical age of graduation is difficult, however, because graduates are dispersed over a wide range of ages.

A net graduation rate is calculated for advanced research programmes (where duplication of certificates awarded does not pose a problem) as the sum of age-specific graduation rates. The net graduation rate can be interpreted as the percentage of persons within an age cohort who obtain a tertiary qualification and is thus unaffected by changes in population size or typical graduation age. Gross graduation rates are presented for those countries that cannot provide such detailed data.

The survival rate is calculated as the ratio of the number of students who graduated from an initial degree during the reference year to the number of new entrants into this degree n years before, with n being the number of years of full-time study required to complete the degree. The calculation of the survival rate is not defined from a cohort analysis. This estimation assumes constant student flows at the tertiary level, implied by the need for consistency between the graduate cohort in the reference year with the entrant cohort n years before. This assumption may be an oversimplification of the reality in countries (see Annex 3 at *www.oecd.org/edu/eag2006*).

Dropouts are defined as those students who leave the specified level without graduating from a first qualification at that level. The first qualification refers to any degree, regardless of the duration of study, obtained at the end of a programme which does not have a previous degree at the same level as a pre-requisite.

Further references

Examining the number of science graduates per 100 000 25-to-34-year-olds in employment provides another way of gauging the recent output of high-level skills from different education systems. For more information, see *Education at a Glance 2005* (OECD, 2005c), Table A3.2. For a data update, see *Education at a Glance 2006*, Table A3.5 on the Web at *http://dx.doi.org/10.1787/436145613668*.

ľ	1	13	

Table A3.1. Tertiary graduation rates (2000, 2004)

Percentage of tertiary graduates to the population at the typical age of graduation, by programme destination and duration

			Tertiary-type A programmes (first-time graduation)					All program (first-time g	nmes (2000) graduation)
		Tertiary- type B programmes (first-time graduation)	All programmes	3 to less than 5 years ¹	5 to 6 years ¹	More than 6 years	Advanced research programmes ²	Tertiary-type B programmes	Tertiary-type A programmes
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
5	Australia	m	46.4	44.4	2.0	n	1.7	m	36.3
	Austria	7.1	19.6	4.0	15.6	а	2.1	m	16.0
5	Belgium	m	m	m	m	m	1.1	m	m
2	Canada	m	m	m	m	m	0.8	m	27.9
5	Czech Republic ³	4.9	19.7	4.9	14.8	а	1.1	4.8	13.6
	Denmark ⁴	11.2	45.3	28.6	16.7	n	1.0	m	m
	Finland ⁴	0.8	47.8	29.6	17.6	0.6	1.8	7.3	40.7
	France ⁴	19.3	26.0	8.6	16.4	1.0	1.1	18.3	24.6
	Germany	10.2	20.6	8.0	12.6	а	2.1	10.7	19.3
	Greece	m	m	m	m	m	0.8	m	m
	Hungary	3.5	28.8	x(2)	x (2)	x (2)	0.6	m	m
	Iceland	5.3	50.0	40.8	9.2	n	0.2	5.5	33.2
	Ireland	20.1	37.4	21.4	16.0	x(4)	1.1	15.2	31.2
	Italy ³	0.5	36.8	13.3	23.6	а	0.7	0.6	18.1
	Japan	26.5	36.1	31.1	5.0	а	0.8	28.8	30.9
	Korea	m	m	m	m	m	1.1	m	m
	Luxembourg	m	m	m	m	m	m	m	m
	Mexico	m	m	m	m	m	0.1	m	m
	Netherlands	a	40.2	x(2)	x(2)	a	1.4	m	m
	New Zealand	21.0	48.4	44.5	3.8	0.2	1.1	m	m
	Norway	3.0	45.4	36.1	6.0	3.3	1.1	m	m
	Poland	0.2	44.8	10.6	34.3	n	0.9	m	34.4
	Portugal	8.3	32.8	11.4	21.3	0.1	2.5	m	m
	Slovak Republic ³	3.1	27.7	4.8	22.9	а	1.1	2.2	m
	Spain	17.2	32.6	14.1	18.5	n	1.2	7.9	32.6
	Sweden Switzenland	4.5	37.4	14.1	1.4	a 4 0	3.1	4.2	20.1
	Turkey	10.9	25.9	14.1	1.9	4.0	2.7	m	10.4
	Inited Kingdom ⁶	16.2	20.2	20.2	0.9	0.2	1.9	m	27 E
	United Kingdom	93	33.6	18.2	13.3	2.1	1.9	8.3	37.5
	united states	9.3	33.0	10.2	15.5	2.1	1.5	8.3	33.2
	OECD average	9.2	34.8	21.4	12.8	0.5	1.3	9.5	27.5
	EU19 average	7.9	33.4	16.7	16.6	0.1	1.4	7.9	26.9
R	Brazil	m	m	m	m	m	m	m	201
Ĕ	Chile	m	m	m	m	m	0.1	m	m
OUL	Israel	m	31.8	21.3	10.6	2	13	m	m
5	Russian Federation	m	m	_1.5 m	m	m	m	m	m

0010

Partner

Notes: Mismatches between the coverage of the population data and the student/graduate data mean that the participation/graduation rates for those countries that are net exporters of students may be underestimated (for instance, Luxembourg) and those that are net importers may be overestimated.

1. Excluding students who subsequently completed a longer programme.

2. Net graduation rate is calculated by summing the graduation rates by single year of age except for France, Italy, Japan, Korea, Mexico, the Netherlands and the United States.

3. Gross graduation rate may include some double counting for tertiary-type A and B programmes.

4. Year of reference 2003.

5. Year of reference 2003 for advanced research programmes.

6. The graduation rate for tertiary-type B programmes includes some graduates who have previously graduated at this level and it therefore represents an over-estimate of first-time graduation.

Source: OECD. See Annex 3 for notes (www.oecd.org/edu/eag2006).

Please refer to the Reader's Guide for information concerning the symbols replacing missing data.

StatLink: http://dx.doi.org/10.1787/436145613668

Table A3.2.Survival rates in tertiary education (2004)

		Tertiary-type A education			Tertiary-type B education					
			Duratio	on of prog	rammes		Duration of programmes			
		All programmes	3 to less than 5 years	5 to 6 years	More than 6 years	All programmes	2 to less than 3 years	3 to less than 5 years	5 years or more	Advanced research programmes
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ries	Australia	67	x (1)	x (1)	x (1)	m	m	m	m	67
ount	Austria	65	x(1)	x (1)	а	m	m	m	а	m
ã	Belgium (Fl.)	74	75	71	82	85	a	85	а	m
OEC	Canada	m	m	m	m	m	m	m	m	m
	Czech Republic	65	74	60	а	61	66	60	а	44
	Denmark	m	m	m	m	m	m	m	m	m
	Finland	71	x(1)	x (1)	x (1)	m	m	а	а	m
	France	m	m	m	m	m	m	m	а	m
	Germany	73	92	65	а	79	87	72	а	m
	Greece	79	78	83	а	35	а	35	а	34
	Hungary	64	64	x (2)	x (2)	48	48	m	а	37
	Iceland	m	m	m	m	m	m	m	m	m
	Ireland	83	x (1)	x (1)	x (1)	69	x(5)	x(5)	x(5)	m
	Italy	m	m	m	m	m	m	m	m	88
	Japan	91	91	90	а	87	87	x(6)	x(6)	89
	Korea	83	83	100	а	m	m	m	а	76
	Luxembourg	m	m	m	m	m	m	m	m	m
	Mexico	53	53	x (2)	x(2)	63	63	а	а	87
	Netherlands	76	76	x (2)	а	а	а	а	а	m
	New Zealand	54	55	m	m	42	42	x(6)	x(6)	66
	Norway	m	m	m	m	m	m	m	m	m
	Poland	66	65	66	а	74	a	74	а	m
	Portugal	68	62	72	а	58	а	58	а	65
	Slovak Republic	m	m	m	а	77	80	70	а	m
	Spain	74	71	76	а	79	79	а	а	m
	Sweden	60	x (1)	x (1)	а	68	x(1)	а	а	m
	Switzerland	m	m	m	m	m	m	m	m	m
	Turkey	74	74	x(2)	а	79	79	а	a	75
	United Kingdom	78	78	84	53	53	x(5)	x(5)	x(5)	70
	United States	54	x (1)	m	а	m	m	m	m	m
	OECD average	70	73	77	8	62	45	35	m	67
	EII19 average	71	74	72	11	60	36	41	m	56

Calculated separately for tertiary-type A and teriary-type B programmes: number of graduates from these programmes divided by the number of new entrants to these programmes in the typical year of entrance, by duration of programme

Source: OECD. See Annex 3 for notes (www.oecd.org/edu/eag2006).

Please refer to the Reader's Guide for information concerning the symbols replacing missing data.

StatLink: http://dx.doi.org/10.1787/436145613668

References

Coulombe, S., J-F. Tremblay and **S. Marchand** (2004), *Literacy Scores, Human Capital and Growth across Fourteen OECD Countries*, Statistics Canada/Human Resources and Skills Development Canada, Ottawa.

Cosnefroy, O. and **T. Rocher** (2004), "Le redoublement au cours de la scolarité obligatoire: nouvelles analyses, mêmes constats", Éducation & formations, No. 70.

De la Fuente, A. and **A. Ciccone** (2003), *Human Capital in a Global and Knowledge-Based Economy: Final Report*, European Commission, DG Economic Affairs, Brussels.

Feinstein, et al. (2005), "The Effects of Education on Health: Concepts, Evidence and Policy Implications", paper presented at the OECD/CERI Symposium on the Social Outcomes of Learning, Copenhagen, 23-24 March 2006.

Friedman T. (2005), The World Is Flat – A Brief History of the Twenty-First Century, Farrar, Straus & Giroux, New York.

Garet, M.S. and B. Delaney (1988), "Students' Courses and Stratification", Sociology of Education, Vol. 61, pp. 61-77.

Groot, W. and **H.M. van den Brink** (2004), "The Health Effects of Education: Survey and Meta-Analysis", SCHOLAR Working Paper 50/04, Department of Economics, University of Amsterdam, Amsterdam.

Grossman, M. and R. Kaestner (1997), "Effects of Education on Health" in J.R. Behrman and N. Stacey (eds.), *The Social Benefits of Education*, The University of Michigan Press, Ann Arbor, Michigan.

Hammond, C. (2002), "Learning to be Healthy", Brief No. RCB07, Institute of Education, London.

Jackson, G. (1975), "The Research Evidence on the Effects of Grade Retention", *Review of Educational Research*, Vol. 45, pp. 613-635.

Jimerson, S.R. (2001), "Meta-Analysis of Grade Retention Research: Implications for Practice in the 21st century", *School Psychological Review*, Vol. 30, No. 3, pp. 420-437.

Kelo, M., U. Teichler and B. Wächter (eds.) (2005), "EURODATA: Student Mobility in European Higher Education", Verlags and Mediengesellschaft, Bonn, 2005.

Krueger, A.B. and **M. Lindhal** (2001), "Education and Growth: Why and for Whom?", *Journal of Economic Literature*, Vol. 39, No. 4, American Economic Association, Nashville Tennessee, pp. 1101-1136.

Lucas, S.R. (2001), "Effectively Maintained Inequality: Education Transitions, Track Mobility, and Social Background Effects", *American Journal of Sociology*, Vol. 106, pp. 1642-1690.

Ministry of Education of China, Department of Planning (2006), "Essential Statistics of Education in China", Chinese Ministry of Education, Beijing.

The Nuffield Foundation (2004), "Time Trends in Adolescent Well-Being", 2004 Seminars on Children and Families: Evidence and Implications, The Nuffield Foundation, London.

OECD (Organisation for Economic Co-operation and Development) (2001a), *The New Economy: Beyond the Hype*, OECD, Paris.

OECD (2001b), Education at Glance: OECD Indicators - 2001 Edition, OECD, Paris.

OECD (2003a), Education at Glance: OECD Indicators - 2003 Edition, OECD, Paris.

OECD (2003b), The Sources of Economic Growth in OECD Countries, OECD, Paris.

OECD (2004a), Learning for Tomorrow's World – First Results from PISA 2003, OECD, Paris.

OECD (2004b), Problem Solving for Tomorrow's World – First Measures of Cross-Curricular Competencies from PISA 2003, OECD, Paris.

OECD (2004c), Education at Glance: OECD Indicators – 2004 Edition, OECD, Paris.

OECD (2004d), Internationalisation and Trade in Higher Education: Opportunities and Challenges, OECD, Paris.

OECD (2005a), Trends in International Migration – 2004 Edition, OECD, Paris.

OECD (2005b) School Factors Related to Quality and Equity, OECD, Paris.

OECD (2005c), PISA 2003 Technical Report, OECD, Paris.

OECD (2005d), Education at Glance: OECD Indicators - 2005 Edition, OECD, Paris.

OECD (2005e), Are Students Ready for a Technology-RichWorld? What PISA Studies Tell Us, OECD, Paris.

Ready, D.D., V.L. Lee and K.G. Welner (2004), "Educational Equity and School Structure: School Size, Overcrowding, and Schools-within-Schools", *Teachers College Record*, Vol. 10, No. 106, pp. 1989-2014.

Rudd, R.E., B.A. Moeykens and T.C. Colton (1999), "Health and Literacy: A Review of Medical and Public Health Literature", in J. Comings., B. Garners and C. Smith. (eds.), *Annual Review of Adult Learning and Literacy*, Jossey-Bass, New York.

Schleicher, A. (2006) "The Economics of Knowledge: Why Education Is Key for Europe's Success", Lisbon Council Policy Brief, The Lisbon Council absl, Brussels.

Schleicher, A. and K. Tremblay (2006), "Dragons, Elephants and Tigers: Adjusting to the New Global reality", in *Challenge Europe*, European Policy Centre, Brussels.

Sianesi, B. and J. Van Reenan (2003), "The Returns to Education: Macroeconomics", *The Journal of Economic Surveys*, Vol. 17, No. 2, Blackwell Publishing Ltd., Oxford, pp. 157-200.

Tremblay, K. (2005) "Academic Mobility and Immigration", *Journal of Studies in International Education*, Vol. 9, No. 3, Association for Studies in International Education, Thousands Oaks, pp. 1-34.

United States National Science Board (2003), *The Science and EngineeringWorkforce – Realizing America's Potential*, National Science Foundation, Washington, D.C.

Wösmann, L. (2003), "Specifying Human Capital", *Journal of Economic Surveys*, Vol. 17, No. 3, Blackwell Publishing Ltd., Oxford, pp. 239-270.

Zhen G. (2006), "First Results from a Survey on Chinese Students' Learning Time", Shanghai Jiao Tong University mimeo.

Contributors to this Publication

Many people have contributed to the development of this publication. The following lists the names of the country representatives, researchers and experts who have actively taken part in the preparatory work leading to the publication of *Education at a Glance – OECD Indicators 2006*. The OECD wishes to thank them all for their valuable efforts.

National Co-ordinators

Mr. Brendan O'REILLY (Australia) Mr. Mark NEMET (Austria) M. Dominique BARTHÉLÉMY (Belgium) Ms. Maddy BOLLEN (Belgium) Ms. Oroslinda Maria GOULART (Brazil) Mr. Atilio PIZARRO (Chile) Mr. Lubomir MARTINEC (Czech Republic) Mr. KenTHOMASSEN (Denmark) Ms. Sylvia KIMMEL (Estonia) Mr. Matti KYRÖ (Finland) M. Claude SAUVAGEOT (France) Ms. Barbara MEYER-WYK (Germany) Ms. Evelyn OBELE (Germany) Mr. Gregory KAFETZOPOULOS (Greece) Ms. Judit KÁDÁR-FÜLÖP (Hungary) Ms. Margrét HARÐARDÓTTIR (Iceland) Mr. Pat MAC SITRIC (Ireland) Mr. Yosef GIDANIAN (Israel) Mr. Antonio Giunta LA SPADA (Italy)

Mr. Kenji SAKUMA (Japan) Ms. Chun-Ran PARK (Korea) M. Jérôme LEVY (Luxembourg) Mr. Rafael FREYRE MARTINEZ (Mexico) Mr. Marcel SMITS VAN WAESBERGHE (Netherlands) Mr. David LAMBIE (New Zealand) Mr. Kjetil MÅSEIDE (Norway) Mr. Jerzy WISNIEWSKI (Poland) Mr. João Trocado MATA (Portugal) Mr. Mark AGRANOVITCH (Russian Federation) Mr. Vladimir POKOJNY (Slovak Republic) Mrs. Helga KOCEVAR (Slovenia) Mrs. Carmen MAESTRO MARTIN (Spain) Mr. Dan ANDERSSON (Sweden) Ms. Dominique Simone RYCHEN (Switzerland) Mr. Ibrahim Z. KARABIYIK (Turkey) Ms. Janice ROSS (United Kingdom) Ms. Valena White PLISKO (United States)

Technical Group on Education Statistics and Indicators

Mr. Brendan O'REILLY (Australia) Mr. Adrian PAWSEY (Australia) Ms. Sabine MARTINSCHITZ (Austria) Mr. Wolfgang PAULI (Austria) Ms. Ann VAN DRIESSCHE (Belgium) Mr. Philippe DIEU (Belgium) Ms. Nathalie JAUNIAUX (Belgium) Mr. Liës FEYEN (Belgium) Mr. Guy STOFFELEN (Belgium) Mr. Raymond VAN DE SIJPE (Belgium) Mr. Johan VERMEIREN (Belgium) Ms. Carmilva FLORES (Brazil) Ms. Vanessa NESPOLI DE OLIVEIRA (Brazil) Ms. Lynn BARR-TELFORD (Canada) Mr. Jean-Claude BOUSQUET (Canada) Mr. Eduardo CORREA (Chile) Mr. Cesar MUÑOZ HERNANDEZ (Chile)

Mr. Vladimir HULIK (Czech Republic) Ms. Michaela KLENHOVÁ (Czech Republic) Mr. Felix KOSCHIN (Czech Republic) Mr. Leo JENSEN (Denmark) Mr. Ken THOMASSEN (Denmark) Ms. Birgitta ANDRÉN (EUROSTAT) Mr. Pascal SCHMIDT (EUROSTAT) Mr. Timo ERTOLA (Finland) Mr. Miikka PAAJAVUORI (Finland) Mr. MikaTUONONEN (Finland) Mr. Matti VAISANEN (Finland) Mr. Jean-Michel DURR (France) Ms. Michèle JACQUOT (France) Ms. Christine RAGOUCY (France) Mr. Heinz-Werner HETMEIER (Germany) Ms. Kirsten OTTO (Germany) Mr. Alexander RENNER (Germany)

Mr. Ingo RUSS (Germany) Ms. Vassilia ANDREADAKI (Greece) Mr. Angelos KARAGIANNIS (Greece) Mr. Konstantinos STOUKAS (Greece) Ms. Judit KOZMA-LUKÁCS (Hungary) Mr. László LIMBACHER (Hungary) Ms. Judit LUKÁCS (Hungary) Ms. Asta URBANCIC (Iceland) Ms. Mary DUNNE (Ireland) Mr. Muiris O'CONNOR (Ireland) Mr. Yosef GIDANIAN (Israel) Ms. Dalia SPRINZAK (Israel) Ms. Gemma DE SANCTIS (Italy) Ms. Giuliana MATTEOCCI (Italy) Ms. Maria Pia SORVILLO (Italy) Mr. Paolo TURCHETTI (Italy) Ms. Nozomi HARAGUCHI (Japan) Ms. Midori MIYATA (Japan) Mr. Tokuo OGATA (Japan) Mr. Satoshi TAKAHASHI (Japan) Mr. Jérôme LEVY (Luxembourg) Ms. Manon UNSEN (Luxembourg) Mr. David VALLADO (Luxembourg) Ms. ErikaVALLE BUTZE (Mexico) Mr. Marcel A.M. SMITSVAN WAESBERGHE (Netherlands) Mr. Dick TAKKENBERG (Netherlands) Ms. Pauline THOOLEN (Netherlands) Mr. Paul GINI (New Zealand) Ms. Marie ARNEBERG (Norway)

Network A on Educational Outcomes

Lead Country: United States Network Leader: Mr. Eugene OWEN Ms. Wendy WHITHAM (Australia) Mrs. Helene BABEL (Austria) Mr. Jürgen HORSCHINEGG (Austria) Mrs. Christiane BLONDIN (Belgium) Mr. Luc VAN DE POELE (Belgium) Ms. Oroslinda Maria GOULART (Brazil) Mr. Don HOIUM (Canada) Ms. Tamara KNIGHTON (Canada) Mr. Jerry MUSSIO (Canada) Mr. Lubomir MARTINEC (Czech Republic) Ms. Pavla ZIELENIECOVA (Czech Republic) Mr. Joern SKOVSGAARD (Denmark) Mr. Aki TORNBERG (Finland) Mr. Thierry ROCHER (France) Ms. Evelyn OBELE (Germany) Ms. Kirsten OTTO (Germany) Mr. Botho PRIEBE (Germany) Mr. Panyotis KAZANTZIS (Greece) Ms. Zsuzsa HAMORI-VACZY (Hungary) Mr. Julius K. BJORNSSON (Iceland) Mr. Gerry SHIEL (Ireland)

Ms. Birgitta BØHN (Norway) Mr. Kjetil DIGRE (Norway) Mr. Geir NYGARD (Norway) Mr. Terje RISBERG (Norway) Ms. Alina BARAN (Poland) Ms. Anna NOWOZYNSKA (Poland) Mr. Jose PAREDES (Portugal) Mr. João PEREIRA DE MATOS (Portugal) Ms. Natalia KOVALEVA (Russian Federation) Mr. Mark AGRANOVITCH (Russian Federation) Ms. Alzbeta FERENCICOVÀ (Slovak Republic) Mr. Vladimir POKJNY (Slovak Republic) Ms. Elena REBROSOVA (Slovak Republic) Ms. Helga KOCEVAR (Slovenia) Ms. Tatjana SKRBEC (Slovenia) Mr. Fernando CELESTINO REY (Spain) Mr. Eduardo DE LA FUENTE (Spain) Mr. Jesus IBANEZ MILLA (Spain) Ms. Karin ARVEMO-NOTSTRAND (Sweden) Mr. Henrik ENGSTROM (Sweden) Ms. Christina SANDSTROM (Sweden) Ms. Katrin HOLENSTEIN (Switzerland) Ms. Nilgün DURAN (Turkey) Ms. Alison KENNEDY (UNESCO) Mr. Steve HEWITT (United Kingdom) Mr. Steve LEMAN (United Kingdom) Ms. Mary Ann FOX (United States) Ms. Catherine FREEMAN (United States)

Mrs. Anna Maria CAPUTO (Italy) Mr. Ryo WATANABE (Japan) Ms. Mee-Kyeong LEE (Korea) Ms. Iris BLANKE (Luxembourg) Mr. Felipe MARTINEZ RIZO (Mexico) Dr. Jules L. PESCHAR (Netherlands) Dr. Paul VAN OIJEN (Netherlands) Ms. Lynne WHITNEY (New Zealand) Ms. Anne-Berit KAVLI (Norway) Ms. Glória RAMALHO (Portugal) Mr. Vladislav ROSA (Slovak Republic) Ms. Mar GONZALEZ GARCIA (Spain) Mr. Ramon PAJARES BOX (Spain) Ms. Anna BARKLUND (Sweden) Ms. Anita WESTER (Sweden) Mr. Erich RAMSEIER (Switzerland) Mr. Sevki KARACA (Turkey) Mr. Jason TARSH (United Kingdom) Ms. Marit GRANHEIM (United States) Mr. Jay MOSKOWITZ (United States) Ms. Elois SCOTT (United States) Ms. Maria STEPHENS (United States)

Mr. Thomas SNYDER (United States)

Network B on Education and Socio-economic Outcomes

Lead country: Sweden Network Leader: Mr. Dan ANDERSSON Ms. Oon Ying CHIN (Australia) Mr. Brendan O'REILLY (Australia) Mr. Mark NÉMET (Austria) Ms. Ariane BAYE (Belgium) Ms. Isabelle ERAUW (Belgium) Ms. Oroslinda Maria GOULART (Brazil) Mr. Patrice DE BROUCKER (Canada) Ms. Shannon DELBRIDGE (Canada) Ms. Zuzana POLAKOVA (Czech Republic) Mr. Steffen BANG (Denmark) Ms. Irja BLOMOVIST (Finland) Ms. Aila REPO (Finland) Ms. Pascale POULET-COULIBANDO (France) Ms. Christiane KRÜGER-HEMMER (Germany) Mr. Nikolaos BILALIS (Greece) Mr. Evangelos INTZIDIS (Greece) Ms. Éva TÓT (Hungary) Ms. Asta URBANCIC (Iceland) Mr. Philip O'CONNELL (Ireland) Mrs. Paola UNGARO (Italy) Ms. Ikuko ARIMATSU (Japan)

Ms. Jihee CHOI (Korea) Mr. Jérôme LEVY (Luxembourg) Mme. Astrid SCHORN (Luxembourg) Mr. Roy TJOA (Netherlands) Mr. Johan VAN DER VALK (Netherlands) Mr. Marcel SMITS VAN WAESBERGHE (Netherlands) Ms. Cheryl REMINGTON (New Zealand) Mr. Erik Dahl (Norway) Ms. Anne Brit UDAHL (Norway) Mr. Terje RISBERG (Norway) Ms. Malgorzata CHOJNICKA (Poland) Mr. Jorge BARATA (Portugal) Ms. Raquel ÁLVAREZ-ESTEBAN (Spain) Mr. Dan ANDERSSON (Sweden) Ms. Anna JÖNSSON (Sweden) Mr. Kenny PETERSSON (Sweden) Mr. Russell SCHMIEDER (Sweden) Ms. Anna BORKOWSKY (Switzerland) Mr. Ali PANAL (Turkey) Mr. David MCPHEE (United Kingdom) Mr. Stephen LEMAN (United Kingdom) Ms. Lisa HUDSON (United States) Mr. Dan SHERMAN (United States)

Network C on School Features and Processes

Lead Country: Netherlands Network Leader: Mr. Jaap SCHEERENS Mr. Lars STAHRE (Australia) Mr. Christian KRENTHALLER (Austria) Mr. Philippe DELOOZ (Belgium) Ms. Ann VAN DRIESSCHE (Belgium) Mr. Peter VAN PETEGEM (Belgium) Ms. Maria Aparecida CHAGAS FERREIRA (Brazil) Ms. Oroslinda Maria GOULART (Brazil) Ms. Nelly MCEWEN (Canada) Ms. Michaela KLENHOVA (Czech Republic) Mr. Lubomir MARTINEC (Czech Republic) Ms. Pavlina STASTNOVA (Czech Republic) Mr. Jørgen Balling RASMUSSEN (Denmark) Ms. Maria HRABINSKA (European Commission) Mr. Hannu-Pekka LAPPALAINEN (Finland) Mrs. Dominique ALLAIN (France) Mr. Gerd MÖLLER (Germany) Mr. Vassilios CHARISMIADIS (Greece) Ms. Anna IMRE (Hungary) Mr. Pat MAC SITRIC (Ireland)

Mrs. Caterina VEGLIONE (Italy) Ms. Sung Eun KIM (Korea) Mme Astrid SCHORN (Luxembourg) Mr. Jean-Claude FANDEL (Luxembourg) Ms. Erika VALLE BUTZE (Mexico) Ms. Maria HENDRIKS (Netherlands) Mr. Marcel SMITS VAN WAESBERGHE (Netherlands) Mr. Paul GINI (New Zealand) Ms. Bodhild BAASLAND (Norway) Mr. Jerzy CHODNICKI (Poland) Ms. Maria DO CARMO CLIMACO (Portugal) Mr. Helder GUERREIRO (Portugal) Mr. Ignacio ÁLVAREZ PERALTA (Spain) Ms. Ulla LINDQVIST (Sweden) Mrs. Annika HAGLUND (Sweden) Mr. Eugen STOCKER (Switzerland) Ms. Nilgün DURAN (Turkey) Ms. Alison KENNEDY (UNESCO) Mr. Jason TARSH (United Kingdom) Mr. Joel SHERMAN (United States) Mrs. Kerry GRUBER (United States)

Others contributors to this publication

Mr. Donald HIRSCH (Consultant) Ms. Tracey STRANGE (Editor) Ms. Fung-Kwan TAM (Layout)

Related OECD Publications

Where Immigrant Students Succeed: A Comparative Review of Performance and Engagement in PISA 2003 ISBN 92-64-02360-7

Are Students Ready for a Technology-Rich World?:What PISA Studies Tell Us ISBN 92-64-03608-3

Learning for Tomorrow's World – First Results from PISA 2003 (2004) ISBN 92-64-00724-5

Problem Solving for Tomorrow's World – First Measures of Cross-Curricular Competencies from PISA 2003 (2004) ISBN 92-64-00642-7

From Education to Work: A Difficult Transition for Young Adults with Low Levels of Education (2005) ISBN 92-64-00918-3

Education Policy Analysis 2005 (Forthcoming) ISBN 92-64-02269-4

OECD Handbook for Internationally Comparative Education Statistics: Concepts, Standards, Definitions and Classifications (2004) ISBN 92-64-10410-0

Completing the Foundation for Lifelong Learning: An OECD Survey of Upper Secondary Schools (2004) ISBN 92-64-10372-4

OECD Survey of Upper Secondary Schools: Technical Report (2004) ISBN 92-64-10572-7

Internationalisation and Trade in Higher Education: Opportunities and Challenges (2004) ISBN 96-64-01504-3

Classifying Educational Programmes: Manual for ISCED-97 Implementation in OECD Countries (1999) ISBN 92-64-17037-5

OECD publications can be browsed or purchased at the OECD Online Bookshop (www.oecdbookshop.org).

TABLE OF CONTENTS

			Name of the indicator in the 2005 edition
Foreword		. 3	
Editorial		13	
Introduction		19	
Reader's Guid	l e 2	23	
CHAPTER A	THE OUTPUT OF EDUCATIONAL INSTITUTIONS	77	
T 1º 4 A1	AND THE IMPACT OF LEARNING	<u>'</u> /	
Table A1 1a	Educational attainment of the adult population	28 37	A1
Table A1.2a	Population that has attained at least upper secondary education (2004)	20	
Table A1, 3a	Population that has attained tertiary education (2004)	30 39	
Table A1.4	Distribution of population aged 35 -to- 64 with tertiary type $5A/6$		
	qualifications by country (2004 and projected to 2014)	10	
Table A1.5	Educational attainment expressed in average number of years in formal education (2004)	+1	
Indicator A2	Current upper secondary graduation rates	+2	A2
Table A2.1	Upper secondary graduation rates (2004)	18	
Table A2.2	Post-secondary non-tertiary graduation rates (2004)4	19	
Indicator A3	Current tertiary graduation and survival rates	50	A3
Table A3.1	Tertiary graduation rates (2000, 2004)	58	
Table A3.2	Survival rates in tertiary education (2004)	59	
Indicator A4	What 15-year-olds can do in mathematics	50	A4
Table A4.1	Percentage of students at each level of proficiency		
	on the OECD PISA mathematics scale (2003)	70	
Table A4.2	Mean student performance and variation on different aspects	- 4	
Table 1/1 2	of the OECD PISA mathematics scale (2003)	/1	
Table A4.3	on the OECD PISA mathematics scale (2003)	72	
- 11	on the OLOD TIST maticinates scale (2005)	~	
Indicator A5	Between- and within-school variation in the mathematics	74	AC
Table A 5, 1	Between-school and within-school variance in student	14	Ab
Tuble 115,1	performance on the OECD PISA mathematics scale (2003)	30	
Indicator A6	Fifteen year old students who newform at the lowest levels		
Indicator Ao	of proficiency in mathematics (2003)	32	
Table A6.1	Odds ratios of the likelihood of students with the lowest		
	socio-economic status to be lowest mathematics performers relativ	ve	
	to the likelihood of students with the highest socio-economic statu	.s	
	to be lowest mathematics peformers (2003)	¥1	

TABLE OF CONTENTS

Name of
the indicator
in the
2005 edition

Table A6.2	Reading performance of lowest mathematics	
Table 16 2	Mathematics performance of lowest reading	
Table A0.5	performers (2003)	
	perior mers (2003)	
Indicator A7	Institutional differentiation, socio-economic status and	
	15-year-old students' mathematics performance (2003)	
Table A7.1	Institutional differentiation, variance in mathematics	
	performance, and economic, social	
	and cultural status (ESCS), (2003)102	
Indicator A8	Labour force participation by level of	
	educational attainment	A8
Table A8.1a	Employment rates and educational attainment,	
	by gender (2004)112	
Table A8.2a	Unemployment rates and educational attainment,	
	by gender (2004)114	
Table A8.3a	Trends in employment rates, by educational attainment	
	(1991-2004)	
Table A8.4a	Trends in unemployment rates, by educational attainment	
	(1991-2004)	
Indicator A9	The returns to education: education and earnings	A9
Table A9.1a	Relative earnings of the population with income from	
	employment (2004 or latest available year)	
Table A9.1b	Differences in earnings between females and males	
	(2004 or latest available year)137	
Table A9.2a	Trends in relative earnings: adult population (1997-2004)	
Table A9.3	Trends in differences in earnings between females and males	
	(1997-2004)	
Table A9.4a	Distribution of the 25-to-64-year-old population,	
	by level of earnings and educational attainment	
	(2004 or latest available year)141	
Table A9.4b	Distribution of the 25-to-64-year-old males by level of earnings	
	and educational attainment (2004 or latest available year)144	
Table A9.4c	Distribution of the 25-to-64-year-old females by level of earnings	
	and educational attainment (2004 or latest available year)147	
Table A9.5	Private internal rates of return for an individual obtaining an	
	upper secondary or post-secondary non-tertiary education,	
	ISCED 3/4 (2003)	
Table A9.6	Private internal rates of return for an individual obtaining	
	a university-level degree, ISCED 5/6 (2003)150	
Table A9.7	Public internal rates of return for an individual obtaining	
	an upper secondary or post-secondary non-tertiary education,	
	ISCED 3/4 (2003)	
Table A9.8	Public internal rates of return for an individual obtaining	
	a university-level degree, ISCED 5/6 (2003)151	

		Name of the indicator in the 2005 edition
Indicator A10	The returns to education: links between education,	
	economic growth and social outcomes	A10
Indicator A11 Table A11.1	Impact of demographic trends on education provision160 Demographic trends between 2005 and 2015 and indicative impact on educational expenditure, student enrolments and graduate numbers	
CHAPTER B	FINANCIAL AND HUMAN RESOURCES INVESTED IN EDUCATION	
Indicator B1	Educational expenditure per student	B1
Table B1.1a	Annual expenditure on educational institutions per student for all services (2003)	
Table B1.1b	Annual expenditure on educational institutions per student for all services, by type of programme (2003)	
Table B1.1c	Annual expenditure per student on core services, ancillary services and R&D (2003)	
Table B1.2	Distribution of expenditure (as a percentage) on educational institutions compared to number of students enrolled	
Table B1.3a	at each level of education (2003)	
Table B1.3b	Cumulative expenditure on educational institutions per student	
Table B1.4	Annual expenditure on educational institutions per student	
Table B1.5	Change in expenditure on educational institutions for all services per student relative to different factors, by level of education (1995, 2003)	
Indicator B2	Expenditure on educational institutions relative	R)
Table B2.1a	Expenditure on educational institutions as a percentage of GDP, for all lowels of advertion (1995, 2000, 2002)	D2
Table B2.1b	Expenditure on education (1995, 2000, 2003)	
Table B2.1c	Expenditure on educational institutions as a percentage of GDP, by level of education (2003)	
Table B2.2	Change in expenditure on educational institutions (1995, 2003)	
Table B2.3	Change in expenditure on educational institutions (1995, 2000, 2001, 2002, 2003)	
Indicator B3 Table B3.1	Public and private investment in educational institutions 210 Relative proportions of public and private expenditure on educational institutions for all levels of education	B 3
	(1995, 2003)	

		Name of the indicator in the 2005 edition
Table B3.2a	Relative proportions of public and private expenditure on educational institutions, as a percentage, by level of education (1995, 2003) 219	
Table B3.2b	Relative proportions of public and private expenditure on educational institutions, as a percentage, for tertiary education (1995, 2003) 220	
Table B3.3	Trends in relative proportions of public expenditure on educational institutions, for tertiary education (1995, 2000, 2001, 2002, 2003)	
Indicator B4 Table B4.1 Table B4.2	Total public expenditure on education222Total public expenditure on education (1995, 2003)228Distribution of total public expenditure on education (2003)229	B4
Indicator B5	Tuition fees charged by tertiary institutions and support	DF
Table B5.1	Estimated annual average tuition fees charged by tertiary-type A	60
Table B5.2	Public subsidies for households and other private entities as a percentage of total public expenditure on education and GDP, for tertiary education (2003)	
Indicator B6	Expenditure in institutions by service category and	
Table B6.1	by resource category	B6
Table B6.2	Expenditure on educational institutions by resource category and level of education (2003)	
CHAPTER C	ACCESS TO EDUCATION, PARTICIPATION AND PROGRESSION 255	
Indicator C1	Enrolment in education from primary education	
Table C1 1	to adult life	C1
Table C1.1 Table C1.2	Enclment rates by age (2004) 266	
Table C1.3	Transition characteristics from age 15 to 20.	
	by level of education (2004)	
Indicator C2	Participation in secondary and tertiary education	C2
Table C2.1	Entry rates into tertiary education and age distribution	
	of new entrants (2004)	
Table C2.2	Expected years in tertiary education and changes	
Table C2 3	In tertiary enrolment (2004)	
Table C2.5	or mode of study (2004) 279	
Table C2.4	Students in primary and secondary education by type of	
• •	institution or mode of study (2004)	
Table C2.5	Upper secondary enrolment patterns (2004)	

Name of the indicator in the 2005 edition

Indicator C3	Student mobility and foreign students in tertiary education 282	C3
Table C3.1	Student mobility and foreign students in tertiary education	0.5
Table C3.2	(2000, 2004)	
Table C3.3	education, by country of origin (2004)304 Citizens studying abroad in tertiary education,	
Table C3.4	by country of destination (2004)	
Table C3.5	Distribution of international and foreign students in tertiary	
Table C3.6	Trends in the number of foreign students enrolled outside	
Table C3.7	Percentage of tertiary qualifications awarded to international and foreign students, by type of tertiary education (2004) 313	
Indicator C4	Education and work status of the youth population	C4
Table C4.1a	Expected years in education and not in education for 15-to-29-year-olds (2004)	
Table C4.2a	Percentage of the youth population in education and not in education (2004)	
Table C4.3	Percentage of the cohort population not in education and unemployed (2004)	
Table C4.4a	Trends in the percentage of the youth population in education and not in education (1995-2004)	
Indicator C5	Participation in adult learning	C6
Table C5.1a	Participation rate and expected number of hours in non-formal job-related education and training, by level of educational	
Table C5.1b	attainment (2003)	
Table C5.1c	Expected number of hours in non-formal job-related education and training, by level of educational attainment (2003)	
CHAPTER D	THE LEARNING ENVIRONMENT AND ORGANISATION OF SCHOOLS	
Indicator D1	Total intended instruction time for students in primary	
Table D1.1	and secondary education	D1
Table D1.2a	Instruction time per subject as a percentage of total	
Table D1.2b	compulsory instruction time for 9-to-11-year-olds (2004)	
	compulsory instruction time for 12-to-14-year-olds (2004)358	

			Name of the indicator in the 2005 edition
Indicator D2	Class size and ratio of students to teaching staff	360	D2
Table D2.1	Average class size, by type of institution and level		
	of education (2004)	370	
Table D2.2	Ratio of students to teaching staff in educational		
	institutions (2004)	371	
Table D2.3	Ratio of students to teaching staff by type of institution (2004)	372	
Indicator D3	Teachers' salaries	374	D3
Table D3.1	Teachers' salaries (2004)	384	
Table D3.2a	Adjustments to base salary for teachers		
	in public institutions (2004)	386	
Table D3.2b	Adjustments to base salary for teachers in public institutions		
	made by school principal (2004)	388	
Table D3.2c	Adjustments to base salary for teachers in public institutions		
	made by local or regional authority (2004)	390	
Table D3.2d	Adjustments to base salary for teachers in public institutions		
	made by the national authority (2004)		
Table D3.3	Change in teachers' salaries (1996 and 2004)	394	
Indicator D4	Teaching time and teachers' working time	396	D4
Table D4.1	Organisation of teachers' working time (2004)	405	Di
Indicator D5	Access to and use of ICT	406	
Table D5.1	Various ICT resources in secondary schools and percentage		
	of various types of computers in schools (2003)	414	
Table D5-2	Percentage of students in secondary schools whose principals		
Tuble D3.2	report that instruction is hindered by a shortage		
	of ICT resources (2003)	415	
Table D5-3	Percentage of 15-year-old students using computers at home		
Table D3.5	school or other places by frequency of use (2003)	417	
	school of other places, by frequency of use (2005)	1 /	
ANNEX 1	Characteristics of Educational Systems	419	
Table X1.1a	Typical graduation ages in upper secondary education	420	
Table X1.1b	Typical graduation ages in post-secondary non-tertiary		
	education	421	
Table X1.1c	Typical graduation ages in tertiary education	422	
Table X1.2a	School year and financial year used for the calculation		
	of indicators	423	
Table X1.2b	School year and financial year used for the calculation		
	of indicators	424	
Table X1.3	Summary of completion requirements		
	for upper secondary (ISCED 3) programmes	425	
ANNEX 2	Reference Statistics	429	
Table X2 1	Overview of the economic context using basic variables		
10010 112.1	(reference period: calendar year 2003, 2003 current prices)	430	
Table X2-2	Basic reference statistics		
14010 112,2	(reference period: calendar year 2003, 2003 current prices)	431	

Name of the indicator in the 2005 edition

Table X2.3	Basic reference statistics	
	(reference period: calendar year 1995, 1995 current prices)432	
Table X2.4	Annual expenditure on educational institutions per student	
	for all services (2003)	
Table X2.5	Annual expenditure on educational institutions per student	
	for all services (2003)	
Table X2.6a	Reference statistics used in the calculation of	
	teachers' salaries, by level of education (1996, 2004)435	
Table X2.6b	Reference statistics used in the calculation of teachers' salaries	
	(1996, 2003)	
Table X2.6c	Teachers' salaries (2004)	
ANNEX 3 (Sou	urces, Methods and Technical Notes)441	
References		
Contributors	to this Publication	
Related OECE	Publications	



From: Education at a Glance 2006 OECD Indicators

Access the complete publication at: https://doi.org/10.1787/eag-2006-en

Please cite this chapter as:

OECD (2006), "Current Tertiary Graduation and Survival Rates", in *Education at a Glance 2006: OECD Indicators*, OECD Publishing, Paris.

DOI: https://doi.org/10.1787/eag-2006-4-en

This work is published under the responsibility of the Secretary-General of the OECD. The opinions expressed and arguments employed herein do not necessarily reflect the official views of OECD member countries.

This document and any map included herein are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

You can copy, download or print OECD content for your own use, and you can include excerpts from OECD publications, databases and multimedia products in your own documents, presentations, blogs, websites and teaching materials, provided that suitable acknowledgment of OECD as source and copyright owner is given. All requests for public or commercial use and translation rights should be submitted to rights@oecd.org. Requests for permission to photocopy portions of this material for public or commercial use shall be addressed directly to the Copyright Clearance Center (CCC) at info@copyright.com or the Centre français d'exploitation du droit de copie (CFC) at contact@cfcopies.com.

