



Rethinking Tertiary Education Australia



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Enhanced focus in Tertiary Education and global demographic transitions would push tertiary education system to Globality

Tertiary Education – Overview

The Tertiary Education system over decades transformed from merely concentrating on enhancing student's skills to bolster country's competitiveness. The quality and reach of tertiary education has been a major force behind the nation's social, cultural, and economic pre-eminence. Tertiary education is instrumental in fostering growth, reducing poverty and boosting shared prosperity. It benefits not just the individual, but the entire educational system.

However, the talent positioning, learning objectives and entrepreneurial spirit still remain a great challenge at micro level, coupled with macro challenges like declining demographics, women empowerment, corporate expectations and international mobility. Yet dramatic changes in the environment are forcing institutions to rethink traditional ways of doing things to sustain these contributions in the years ahead.

Tertiary Education – Australia

Australia is home to over 40 universities, six of which were placed in the top 100 of the Times Higher Education World University Rankings for 2021. The top universities in the country have traditionally coincided with the list of oldest Australian universities, known as the "Sandstone Universities", which includes the University of Sydney, University of Melbourne, and the University of Queensland.

However, some of the younger universities, such as Monash university in Melbourne and the Australian National University in Canberra. have earned their place at the top of the ranks. This has led to a different grouping of top Australian universities defined by the eight leading research-intensive universities, which have been labeled the "Group of Eight" (G08).

Tertiary Education – Headwinds

- Demographic transition
- Social Objectives
- Corporate Strategies
- Global ranking objectives
- Eco system
- Competitive intensity
- Talent positioning
- Student ROI
- Entrepreneurial spirit
- Consistent growth in services and operating cost

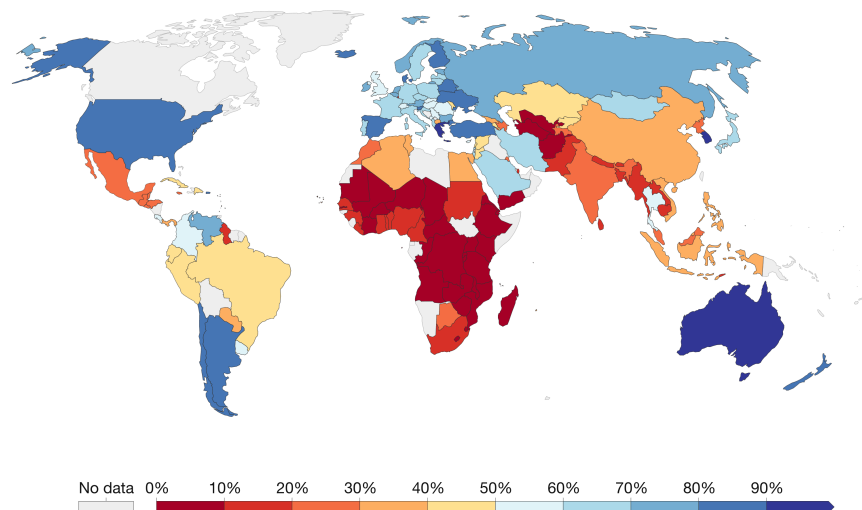
Gross enrolment ratio in tertiary education

- A global comparison with Australia

Gross enrollment ratio in tertiary education, 2014

Total enrollment in tertiary education, regardless of age, expressed as a percentage of the total population of the five-year age group following on from secondary school leaving.

Our World
in Data

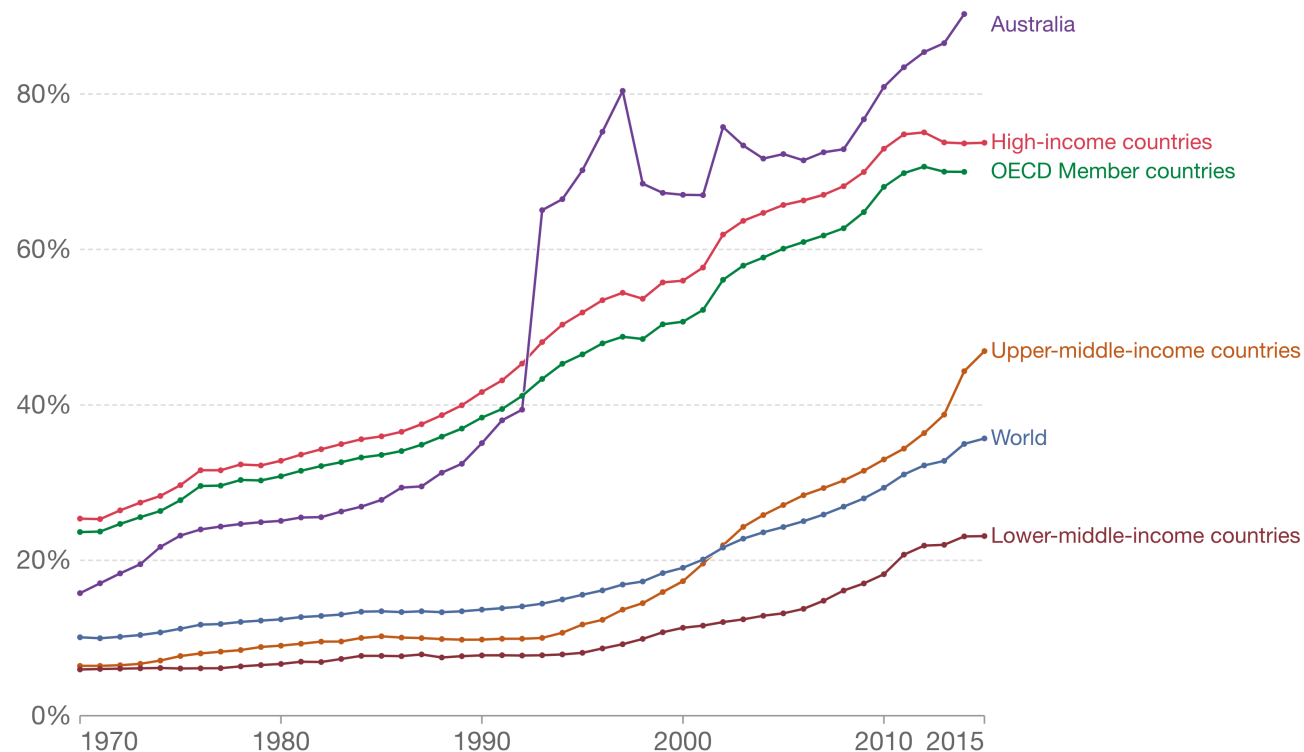


Source: UNESCO Institute for Statistics

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Gross enrollment ratio in tertiary education, 1970 to 2015

Total enrollment in tertiary education, regardless of age, expressed as a percentage of the total population of the five-year age group following on from secondary school leaving.



Source: UNESCO Institute for Statistics

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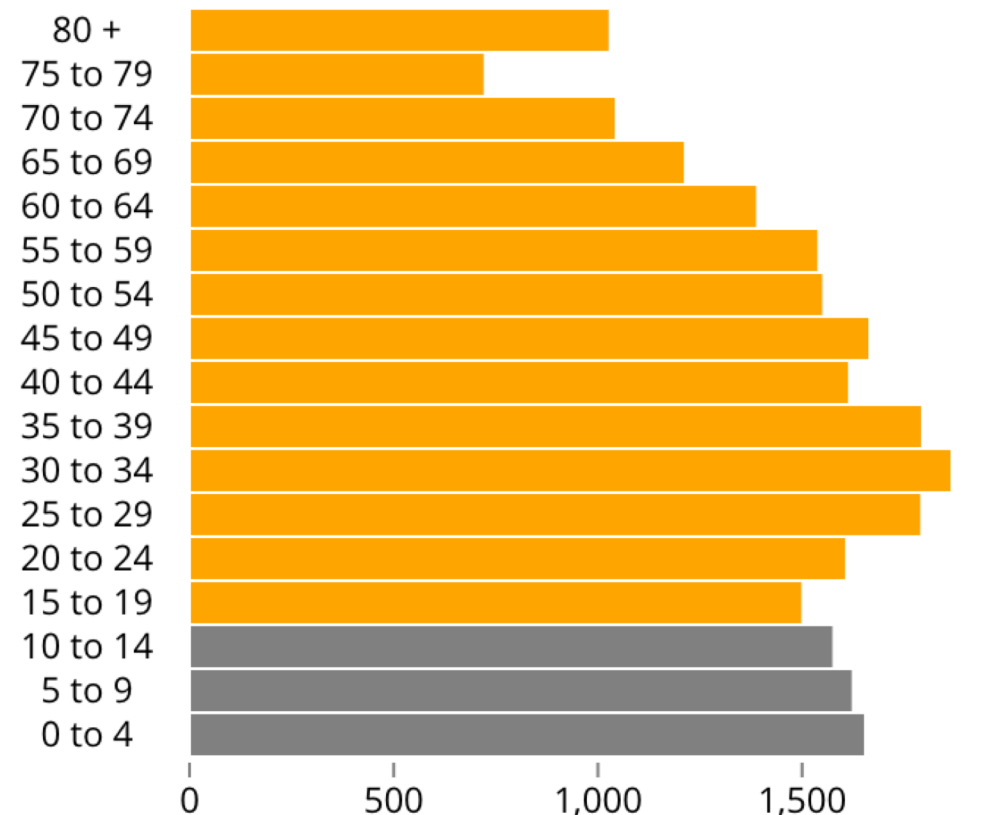
Tertiary education – Australia

Social Demographics

Socio-economic indicators

Total population (in thousands)	25,203
Annual population growth (%)	1.30
Population 15-24 years (in thousands)	3,111
Population aged 14 years and younger (in thousands)	4,858
Rural population (% of total population)	14
Total fertility rate (births per woman)	1.70
Infant mortality rate (per 1,000 live births)	3
Life expectancy at birth (years)	83
Prevalence of HIV (% of population aged 15-49 years)	0.10
Poverty headcount ratio at \$1.90 a day (2011 PPP) (% of population)	0.50
GDP per capita - PPP\$	52,203
Annual GDP growth (%)	-0.30
Total debt service (% of GNI)	...
GDP in billions - PPP\$	1,324

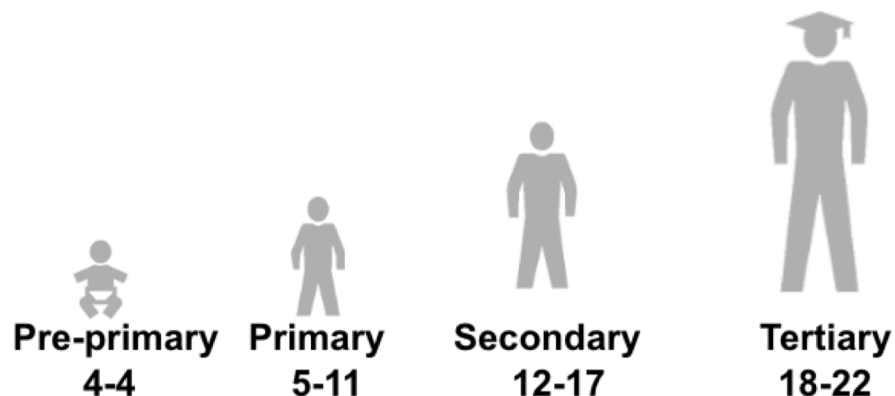
Total population by age group, 2019 (in thousands)



Population aged 14 years and younger represents 19% of the total

Population by Education Level

Official school ages by level of education

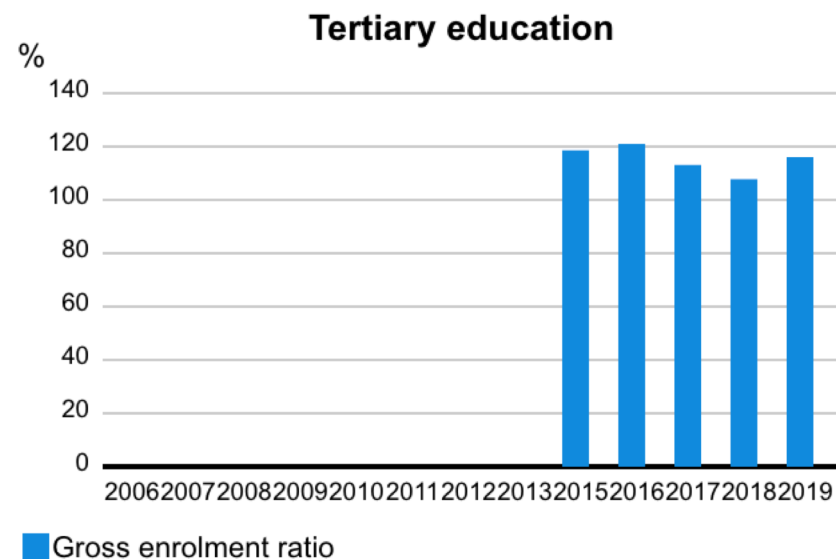
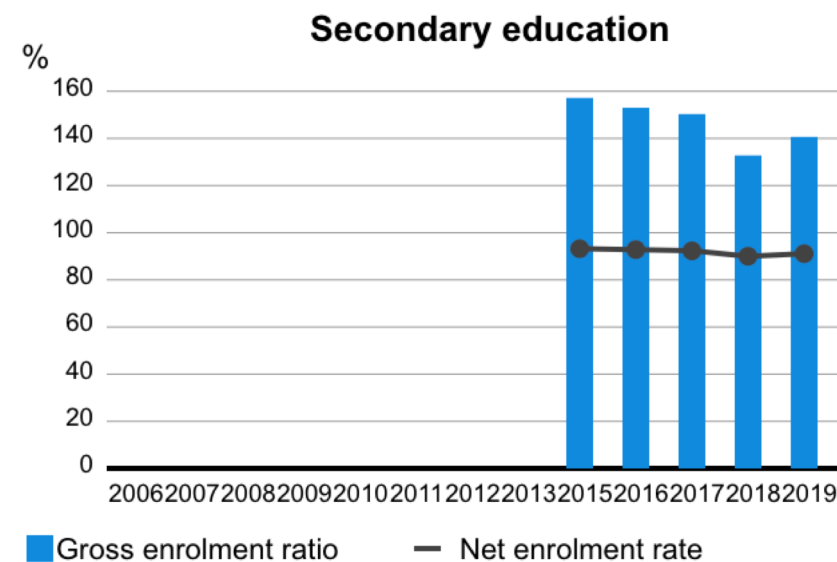
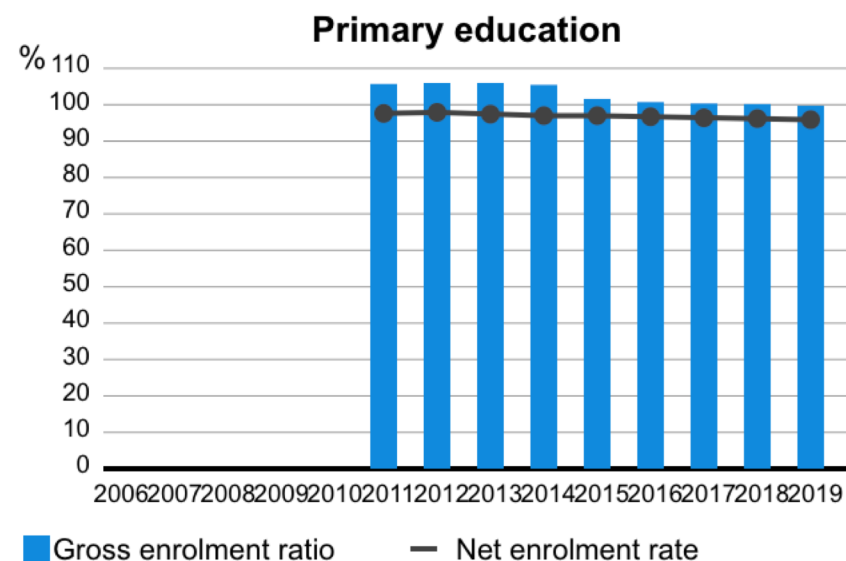


School-age population by education level

Pre-primary	330,328
Primary	2,291,309
Secondary	1,871,818
Tertiary	1,547,539

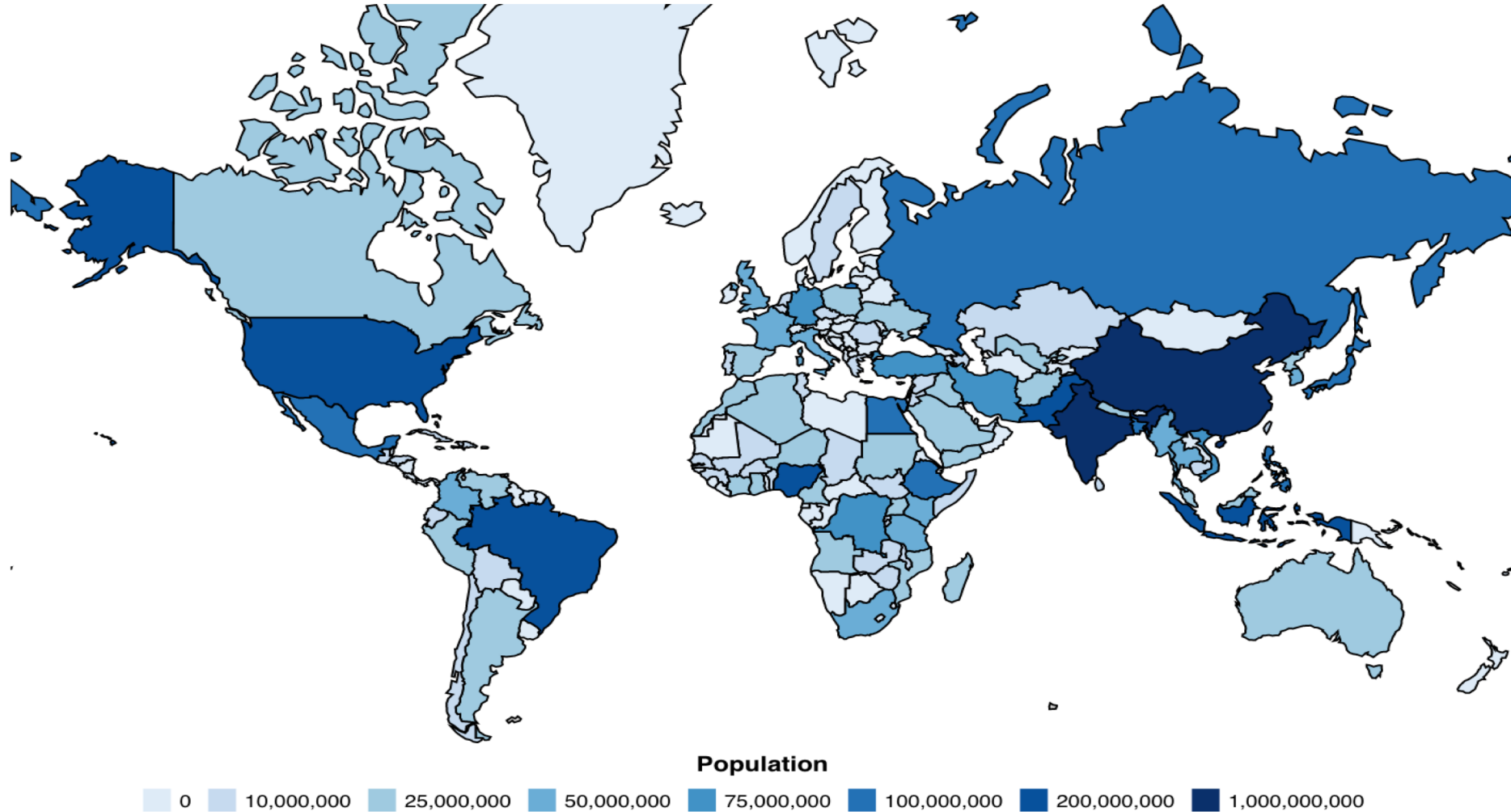
- Compulsory education lasts 10 years from age 6 to age 15

Population by Education Level (2006–19)



World's Population – At Glance

Total Population by Country 2022





World's Population – At Glance

China & India having populations of well over a billion. The US comes in third with just under 325 million residents. The BRIC countries, regarded as the 4 major emerging economies expected to dominate in the 21st century, are all in the top ten most populous countries, indicating how important the sheer size of their populations are to their economic expansion.

However, a number of countries considered by the IMF to be developing countries (that is, having not achieved a high degree of industrialization relative to their populations, and where the population typically has a medium to low standard of living) also have sizeable populations, including Nigeria, Bangladesh and Mexico demonstrating that the issues affecting developing nations span multiple continents.

It is notable that a number of the largest economies in the world have smaller populations, particularly in Europe. The UK, Germany, France and Italy are all among the top ten largest economies and all have populations of under 100 million.

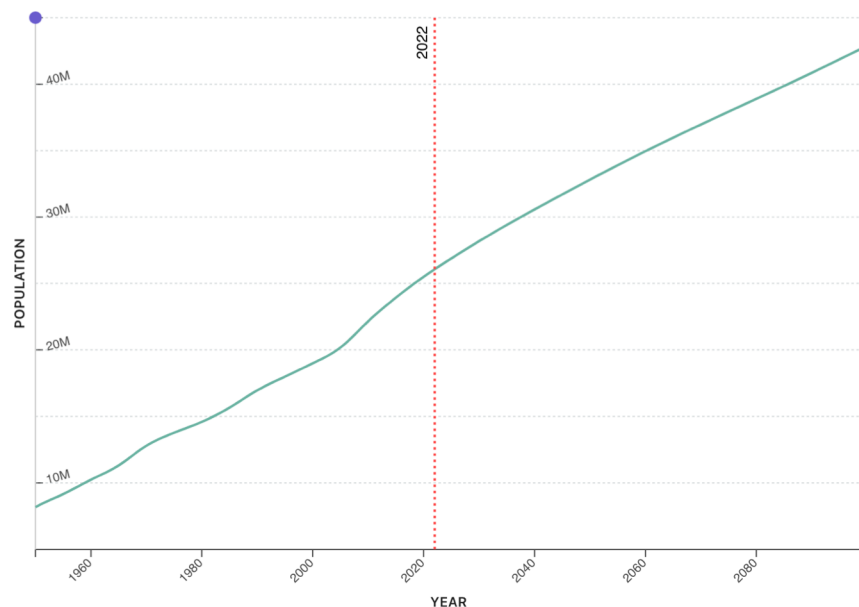
Furthermore, several extremely small countries, such as Monaco, Luxembourg and the Cayman Islands, all with fewer than a million residents play a much larger role in the financial world than their population numbers would suggest. In contrast, Canada, which is also a major economic player and one of the largest countries in the world by landmass, has a relatively small population for its size, with around 36.5 million residents.



Population Trend in Australia

Australia Population 2022 (Live)

26,057,928



Current projections indicate that Australia's population will continue to steadily grow for the rest of the century. Australia's population is about 25.5 million as of 2020 and is projected to grow to 42.68 million people by 2099.

Australia's population growth rate is 1.18%, adding about 296,000 people to the population over 2019's population. This is a result of both net migration, which has been about 150,000 per year for the past few years, and natural increase. Australia's fertility rate of 1.83 births per woman is below the population replacement rate of 2.1 births per woman.

Australia ranks fifth among OECD countries for population growth. As the other OECD countries with high growth rates, Australia has a strong labour demand that cannot be met from domestic sources; therefore, mass migration occurs.

Rank	Country	2022 Population	2021 Population	Growth Rate	Area	Density (km ²)
56	Australia	26,068,792	25,788,215	1.09%	7,692,024	3/km ²



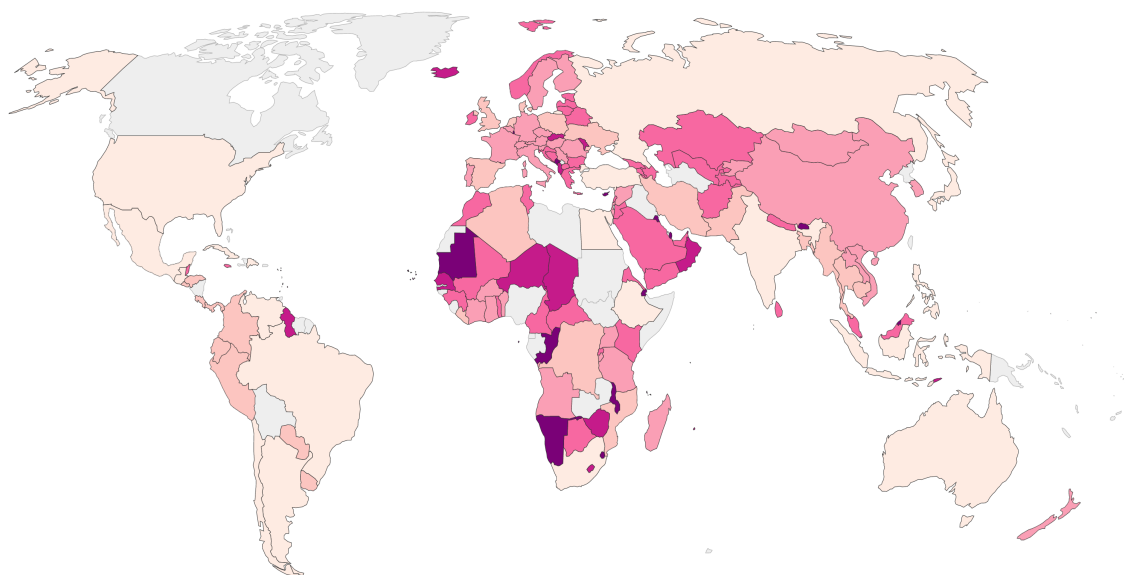
International Mobility of Students

International Mobility of Students

A Global Glance

Share of students studying abroad, 2013

Number of students from a given country studying abroad as a percentage of the total tertiary enrollment in that country.

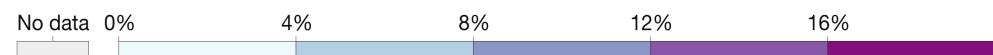
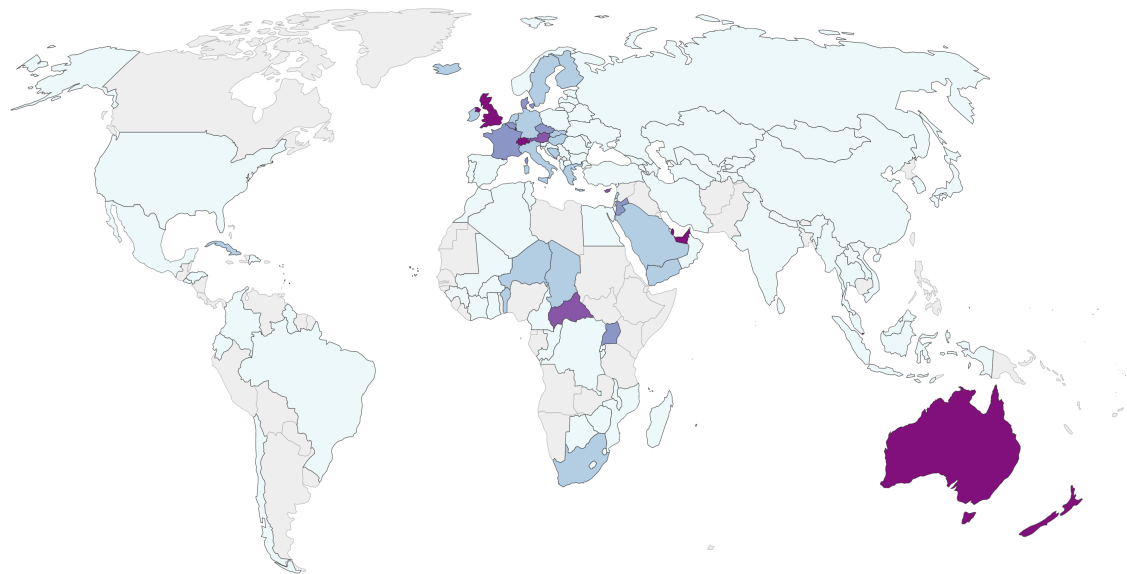


Source: UNESCO Institute for Statistics

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Share of students from abroad, 2015

Share of students from abroad studying in a given country out of the total tertiary enrollment in that country.

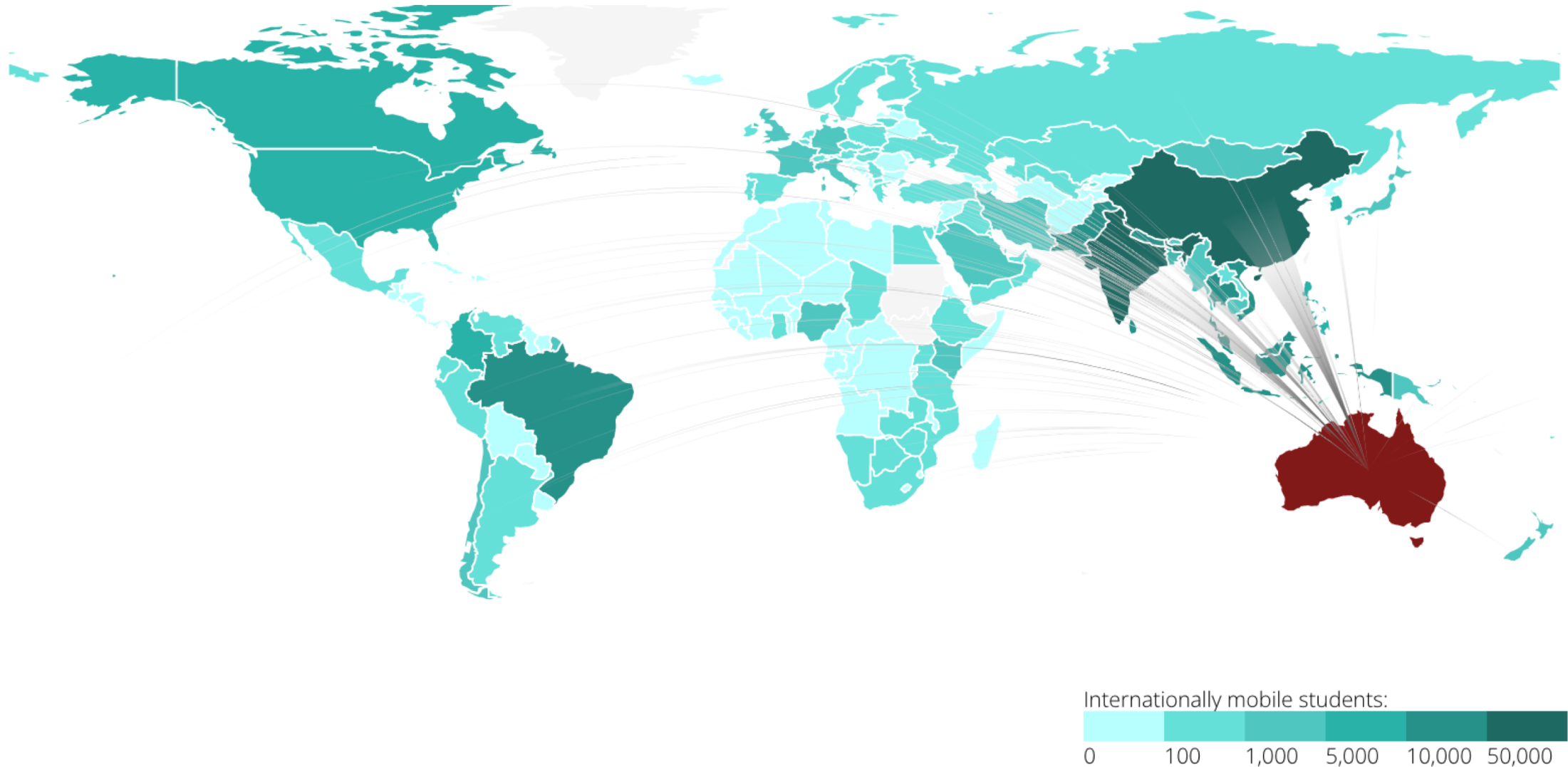


Source: UNESCO Institute for Statistics

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International Mobility of Students – Australia

Where do students come from



International Mobility of Students – Australia

Where do students go



Internationally mobile students:



International Mobility of Students

Top 10 Countries

Australia							
Country of Origin			Destination Country			Key Indicators	
Where do students come from	4,90,098		Where do students go	12,917			
Countries	Students	%	Countries	Students	%		
China	1,55,594	32%	United States	4,344	34%	Students abroad:	
India	93,324	19%	New Zealand	2,358	18%	Total number of mobile students abroad	13,268
Nepal	41,881	9%	United Kingdom	2,185	17%	(% of total mobile students)	0.2
Viet Nam	17,389	4%	Germany	1,018	8%	Outbound mobility ratio	0.7
Malaysia	16,100	3%	Canada	421	3%	Gross outbound enrolment ratio	...
Indonesia	13,880	3%	Japan	383	3%		
Pakistan	12,186	2%	France	189	1%	Students hosted:	
Sri Lanka	11,266	2%	Switzerland	177	1%	Total number of mobile students hosted	5,09,160
China, Hong Kong	9,708	2%	Denmark	170	1%	(% of total mobile students)	8.4
Brazil	9,550	2%	Malaysia	142	1%	Inbound mobility rate	28.4

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... : missing data
n : nil or negligible
a : not applicable



Australian Tertiary Education

Preferred by more of most international students

The island country Australia has been a popular study destination for international students

- Top ranking universities and institutions
- Quality of Australia's tertiary education system
- Internationally recognised qualifications
- Scholarships
- Culture and diversity
- Focus on real world learning
- Graduate employment opportunities
- Work visa extension
- Global Recognition
- Diversity in education



The Power of 3

- Institutions
- Students
- Shared Objectives

Areas stand out for special attention

In this fast-changing world, universities and higher education systems must:

- get clearer on their strategy and sources of distinctiveness
- think through options to expand the reach of the system (including access and affordability, as well as global and online)
- examine every aspect of the economic model to ensure they are viable and sustainable overtime
- graduation and retention rates across all student populations to be increased
- if relevant, boost research excellence and commercial productivity
- develop eco system for entrepreneurial development
- work more closely with employers and governments to prepare students for work in ways that bolster the country's competitiveness



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