

Meeting increasing demand for top talent: Development of higher education in Asia

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Overview

- Policy context
- Global expansion of higher education
 - Role of private institutions
 - Emphasis on fields of study
 - > Outputs
 - Cross-border education
- Next steps



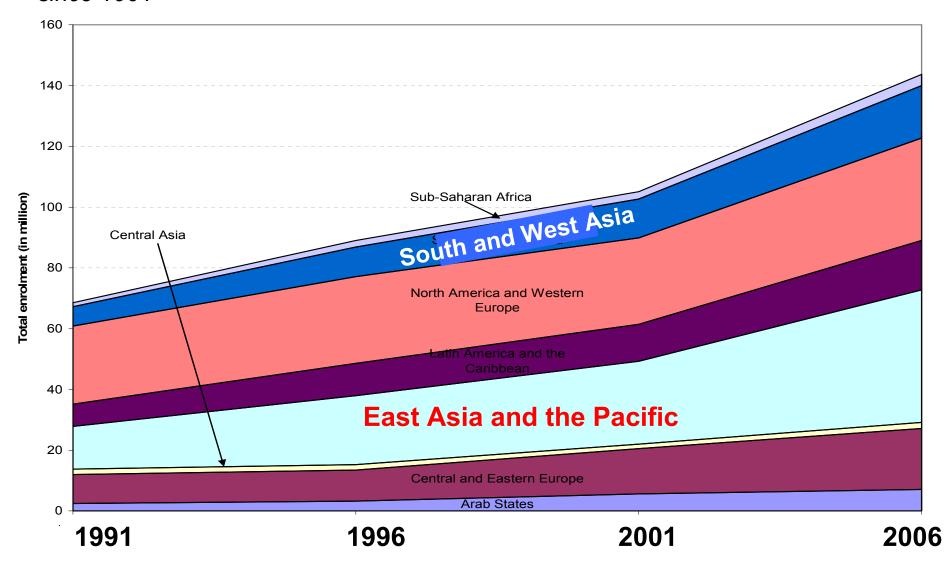
Policy context

- > Externally
 - Societal needs for highly skilled individuals
 - Source of innovation
 - Knowledge generation
- Within educational systems, enhanced demand as a result of widening access to lower levels of schooling

Global expansion of higher education

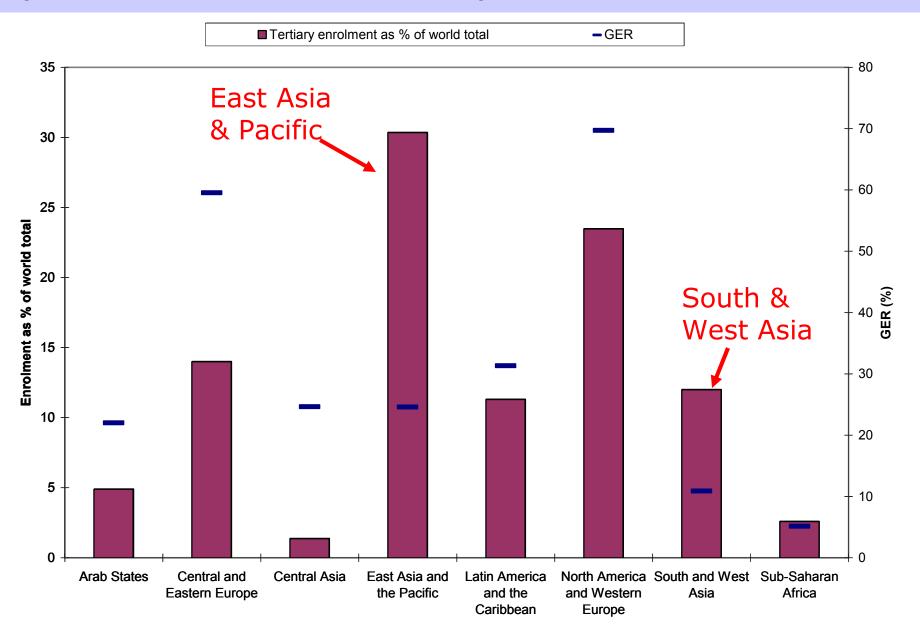
Total enrolment in tertiary institutions, 1991-2006

Total enrolment in higher education more than doubled over a period of 15 years since 1991



Relatively low level of participation in some parts of Asia

Regional enrolment as % of world total & gross enrolment ratios, 2006



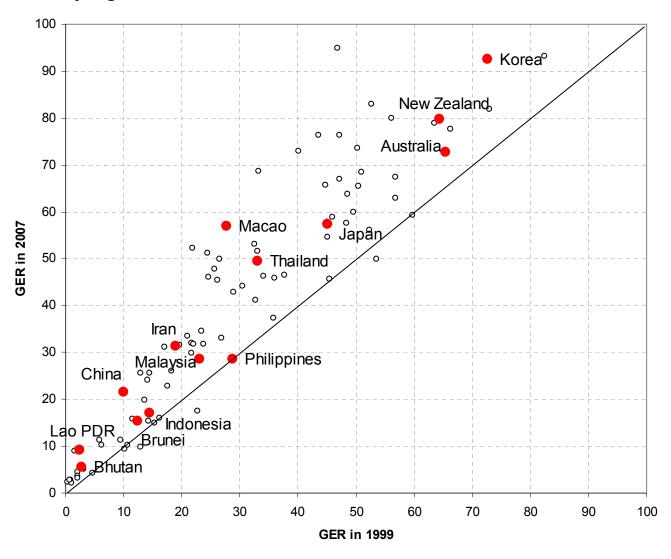
Gross Enrolment Ratio (GER)

- Definition
 - Tertiary enrolment divided by five-year age cohort following theoretical age of secondary education completion
- Useful in illustrating the extent of participation

Uneven growth of participation level

Gross enrolment rates, ISCED 5+6, 1999 & 2007

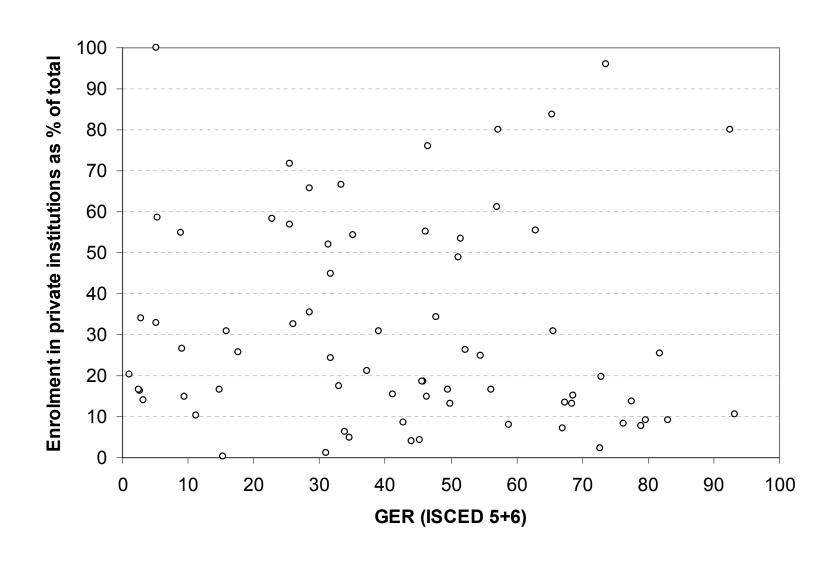
With a few exceptions, level of participation grew across educational systems, despite at varying rates



Level of participation and role of private sector

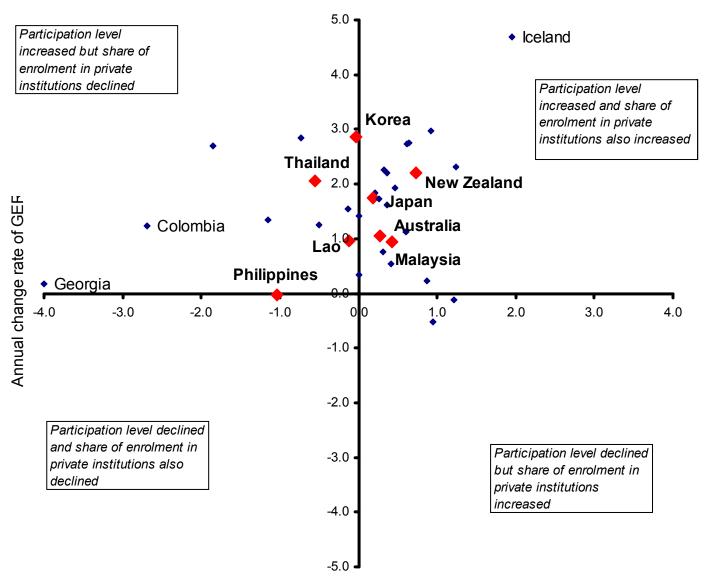
Enrolment in private institutions as % of total & tertiary GER, 2007

The importance of private sector varies in promoting participation in tertiary education



Level of participation and role of private sector

Rate of change in tertiary GER and that of relative share of enrolment in private institutions between 1999 and 2007



Annual change rate of private enrolment

Enrolment by level

Definition

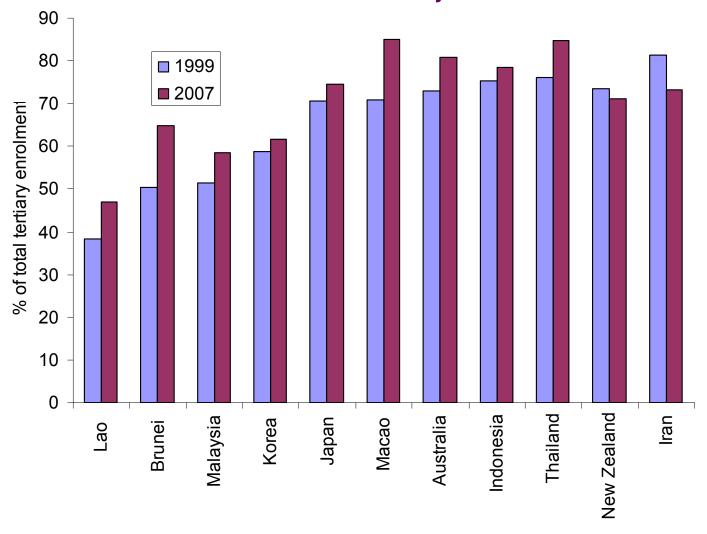
- ISCED 5A
 - Intended to provide sufficient qualifications for gaining entry into advanced research programmes and profession with high skills requirements.
- ISCED 5B
 - Practically oriented or occupationally specific
 - Provides participants with a labour-market relevant qualification.
- ISCED 6
 - Lead to the award of an advanced research qualification.



Growing emphasis on ISCED 5A programmes

Enrolment in ISCED 5A programmes as share of total tertiary enrolment, 1999 & 2007

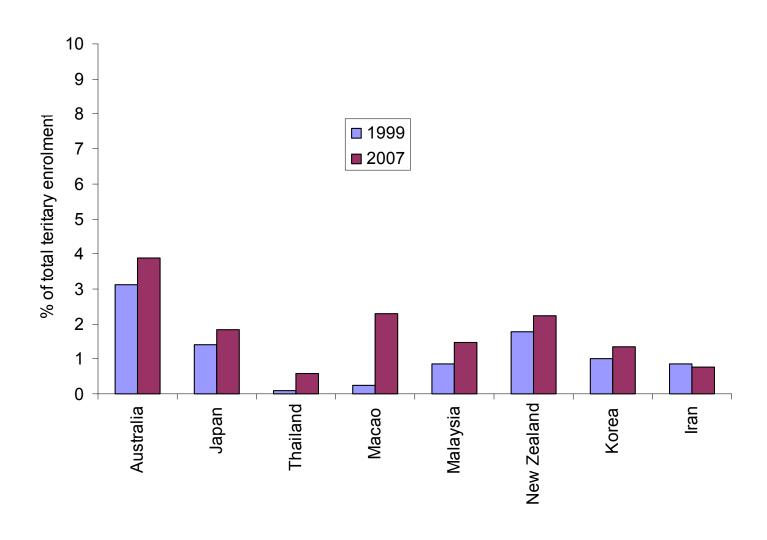
Enrolment in ISCED 5A as share of total tertiary programmes grew between 1999 and 2007 in most school systems in Asia.



Growing emphasis of ISCED 6 programmes

Enrolment in ISCED 6 programmes as share of total tertiary enrolment, 1999 & 2007

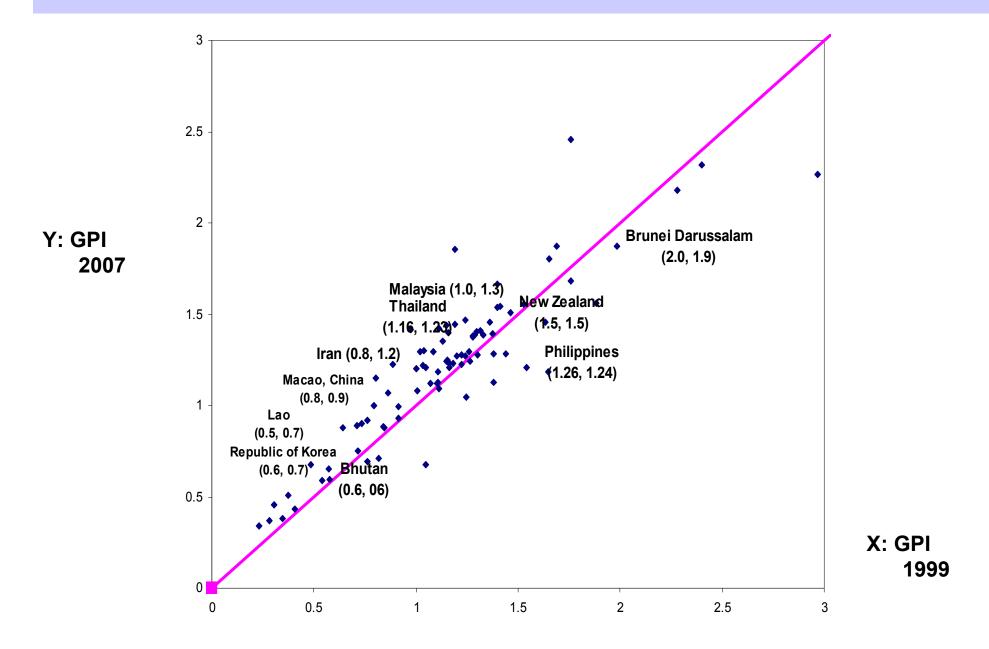
Enrolment in ISCED 6 also increased between 1999 and 2007.



Gender parity index (GPI)

- Definition:
 - Ratio of female to male values of a given indicator.
- A GPI of 1 indicates parity between sexes

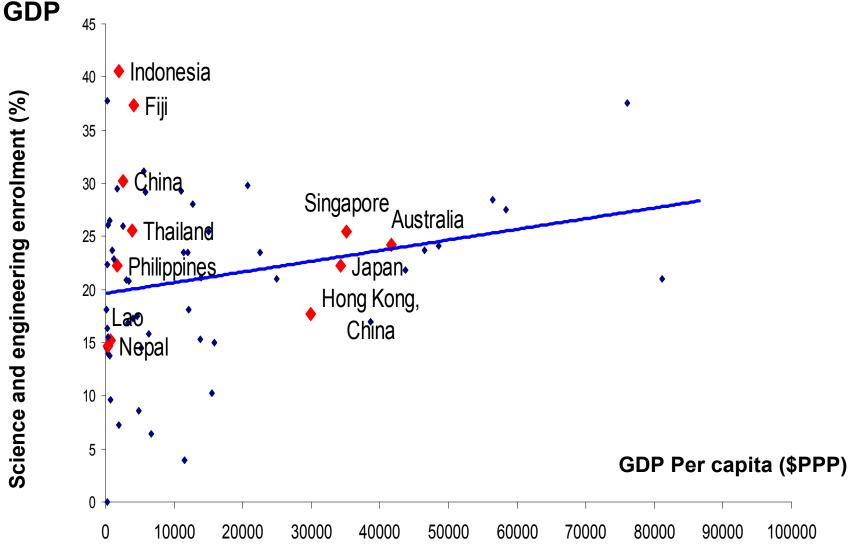
How has gender parity changed?



Emphasis on sciences and engineering

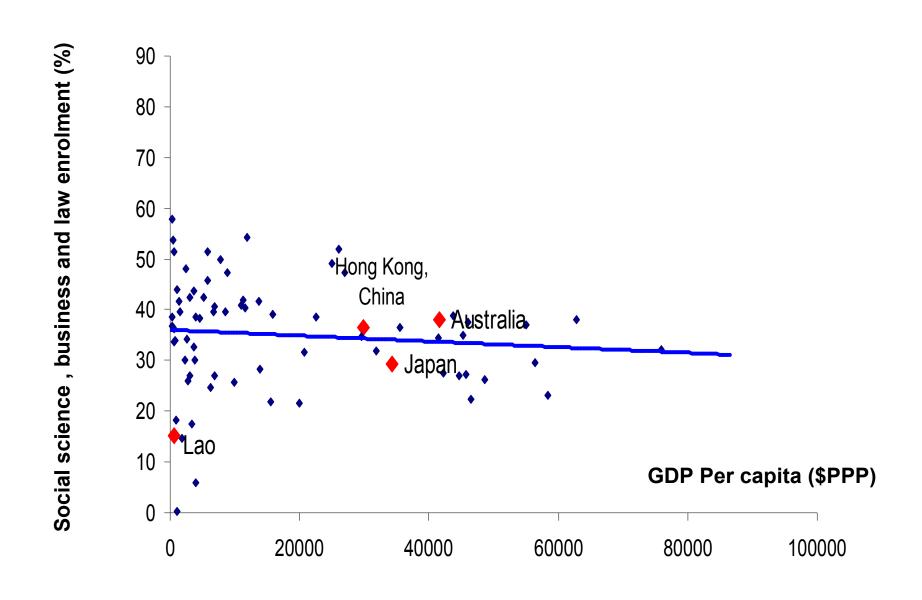
Enrolment in sciences and engineering programmes as % of total, 2007

Science and engineering enrolment (% of total enrolment) as related to



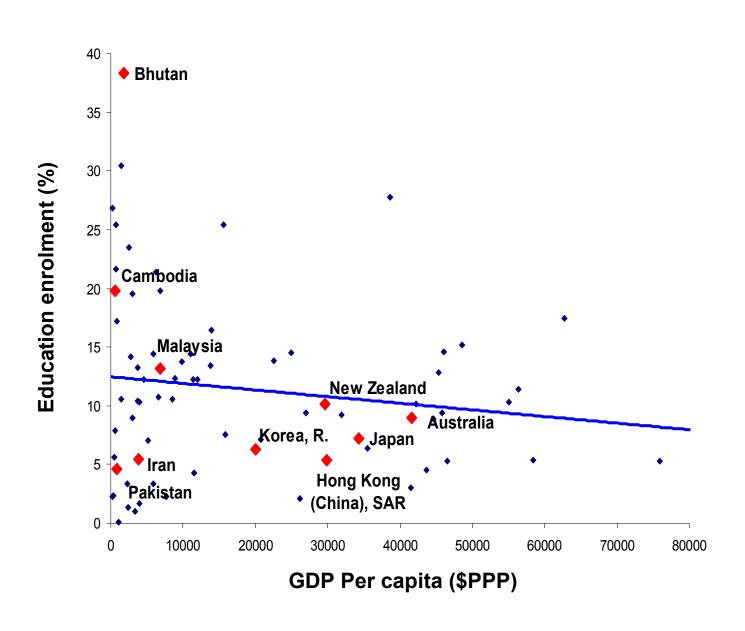
Emphasis on social sciences, business and law

Enrolment in social sciences, business & law programmes as % of total, 2007



Emphasis on education

Enrolment in Education programmes as % of total, 2007

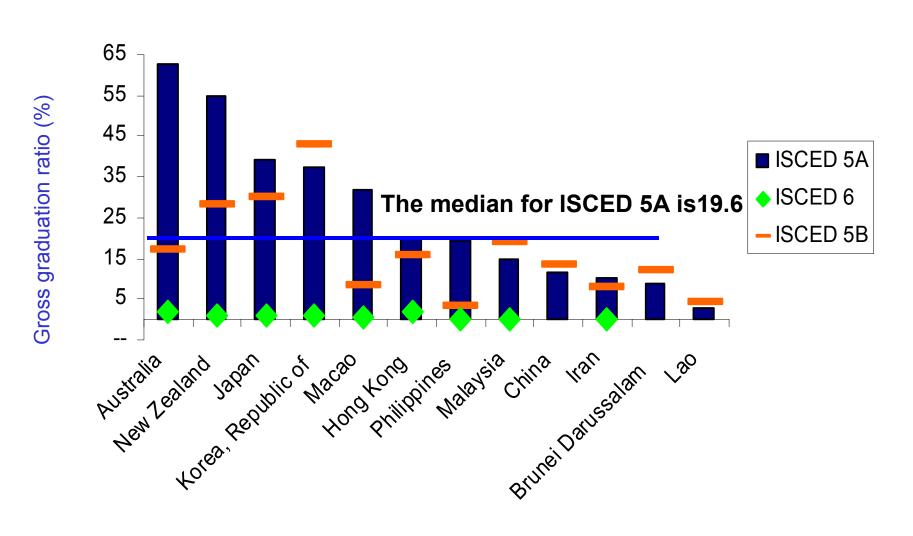


Tertiary Completion: Gross Graduation Ratio

- Definition
 - Number of graduates in a given level or programme expressed as a percentage of the population at the theoretical graduation age for that level or programme.
- An important indicator of educational output.

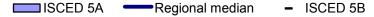
Gross Graduation Ratio

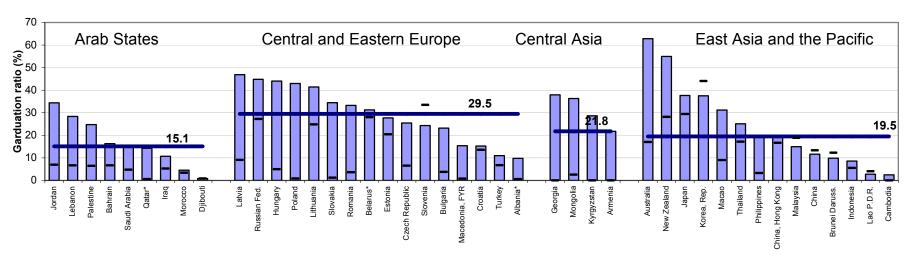
The gross graduation ratios by levels of study, 2007

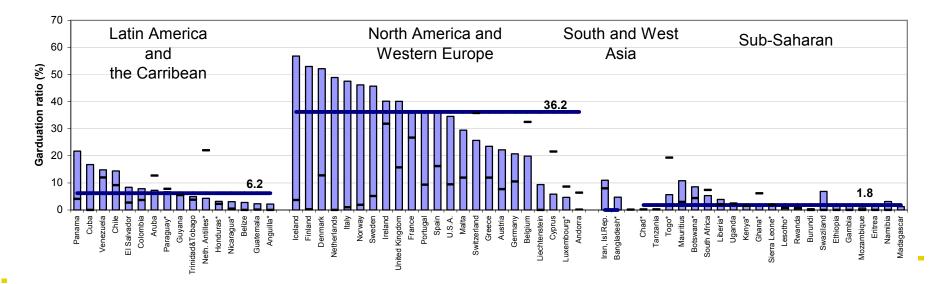


Output of higher education

Gross graduation rate by tertiary programme, 2007

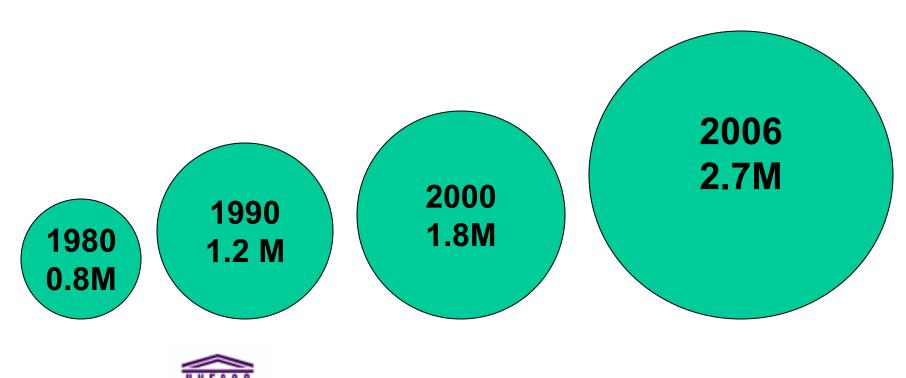






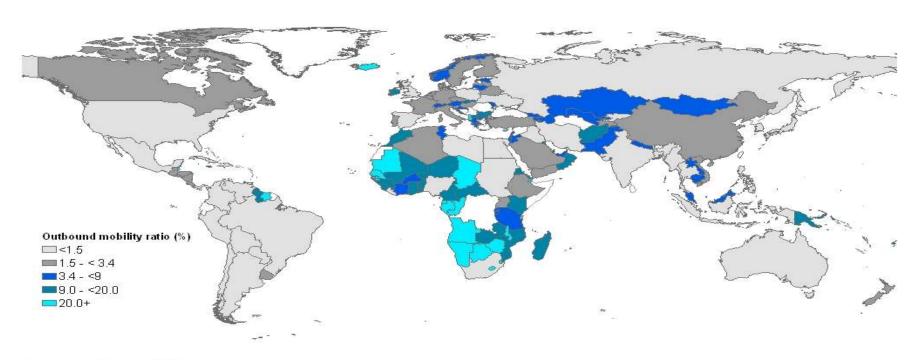
Growing demand for overseas tertiary education

Long term growth in the number of students enrolled in tertiary educational programs outside their country of citizenship, 1980- 2006.



Varying demands for overseas tertiary education

Outbound mobility ratio: Mobile students from a given country as a percentage of tertiary students enrolled in that country, 2005

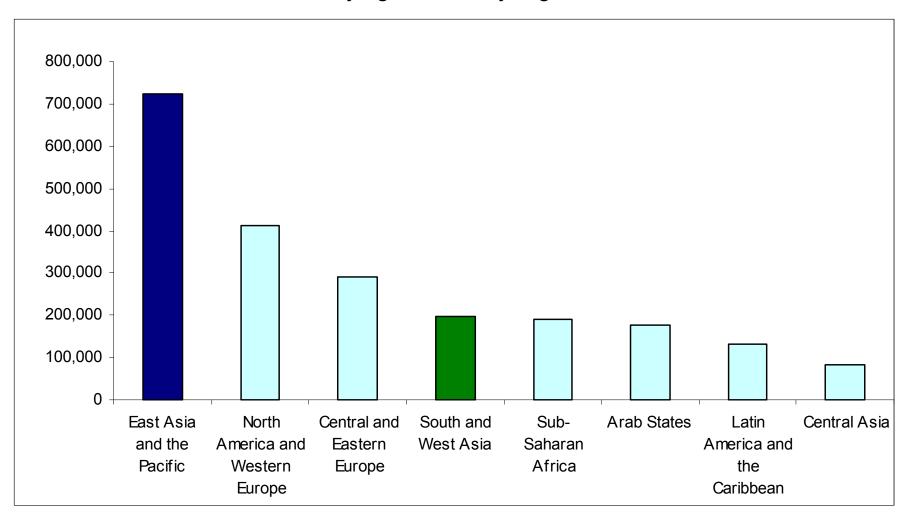


Coverage: 173 out of 207 countries.

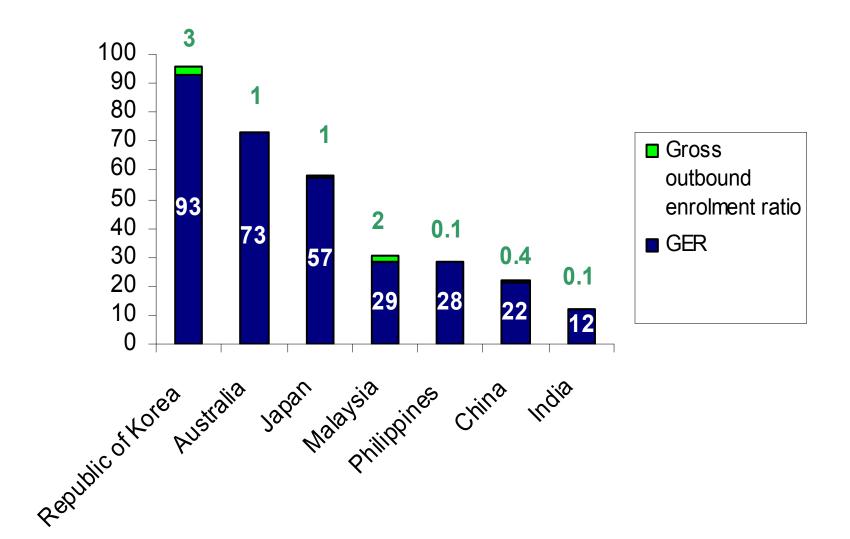
Source: UNESCO Institute for Statistics, Statistical Table 10.

Major source of international students

The number of students studying abroad, by region, 2005



Total Tertiary Enrolment: Gross outbound and Domestic Gross Enrolment

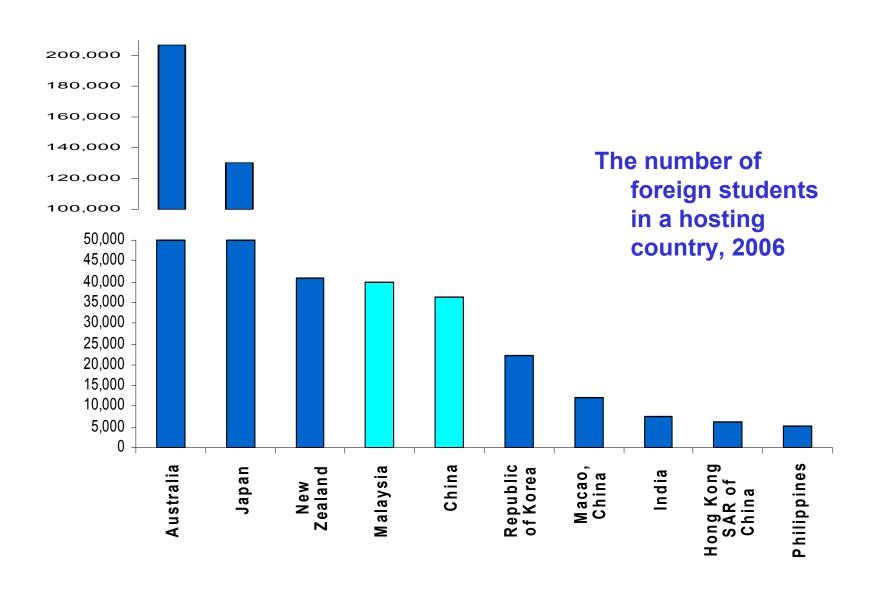


Current Major Hosting Countries

- The United States (22%)
- 2. The United Kingdom (12%)
- 3. **Germany (10%)**
- 4. France (9%)
- **5.** Australia (6%)
- 6. Japan (5%)



Emerging hosting countries in the region



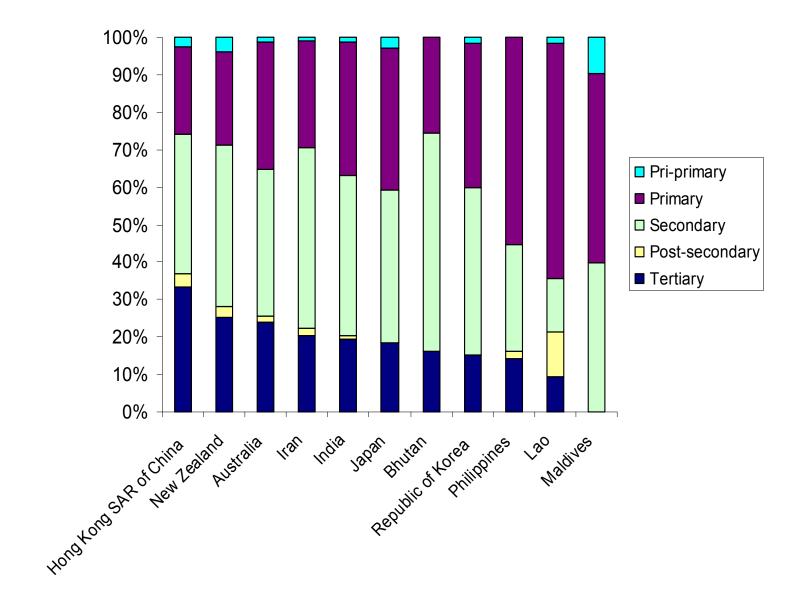
The Indicators of Finance

- Public expenditure on education % of GNP
- Education expenditure as % of government expenditure
- Total public educational expenditure per pupil as a percentage of GDP per capita: Tertiary
- Personnel wages as % of current educational expenditure

Public funding of tertiary education

Distribution of public education expenditure across education levels, 2006

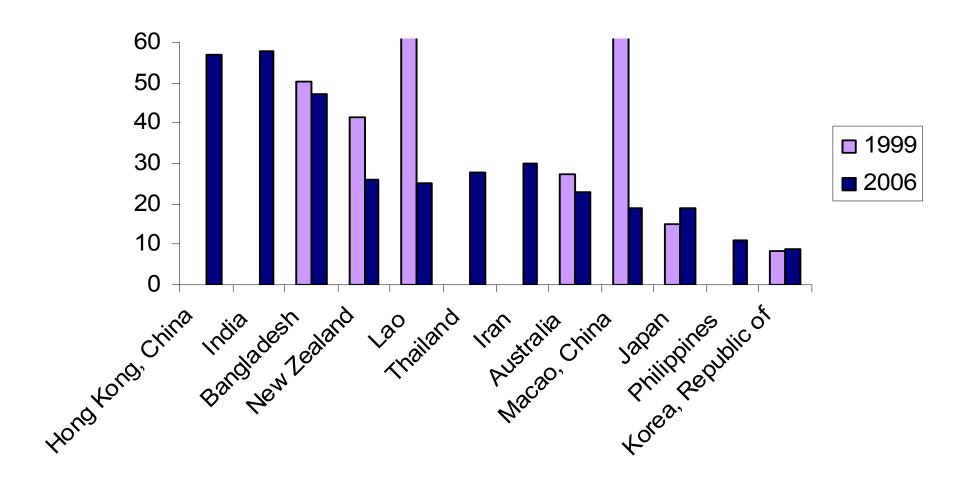
Funding priorities of governments vary across educational systems



Public funding of tertiary education

Public expenditure per tertiary student as a % of GDP per capita, 1999 & 2006

Level of public funding of tertiary education varies by educational system and changing across time



Next steps

- 2009 World Conference on Higher Education
- Regional profile
- Low response rates show in the graphs
- Graduates/enrolment by field of study