



# Higher Education as Instrument for Structural Change in Indonesia

Presented for USINDO

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March 16, 2012

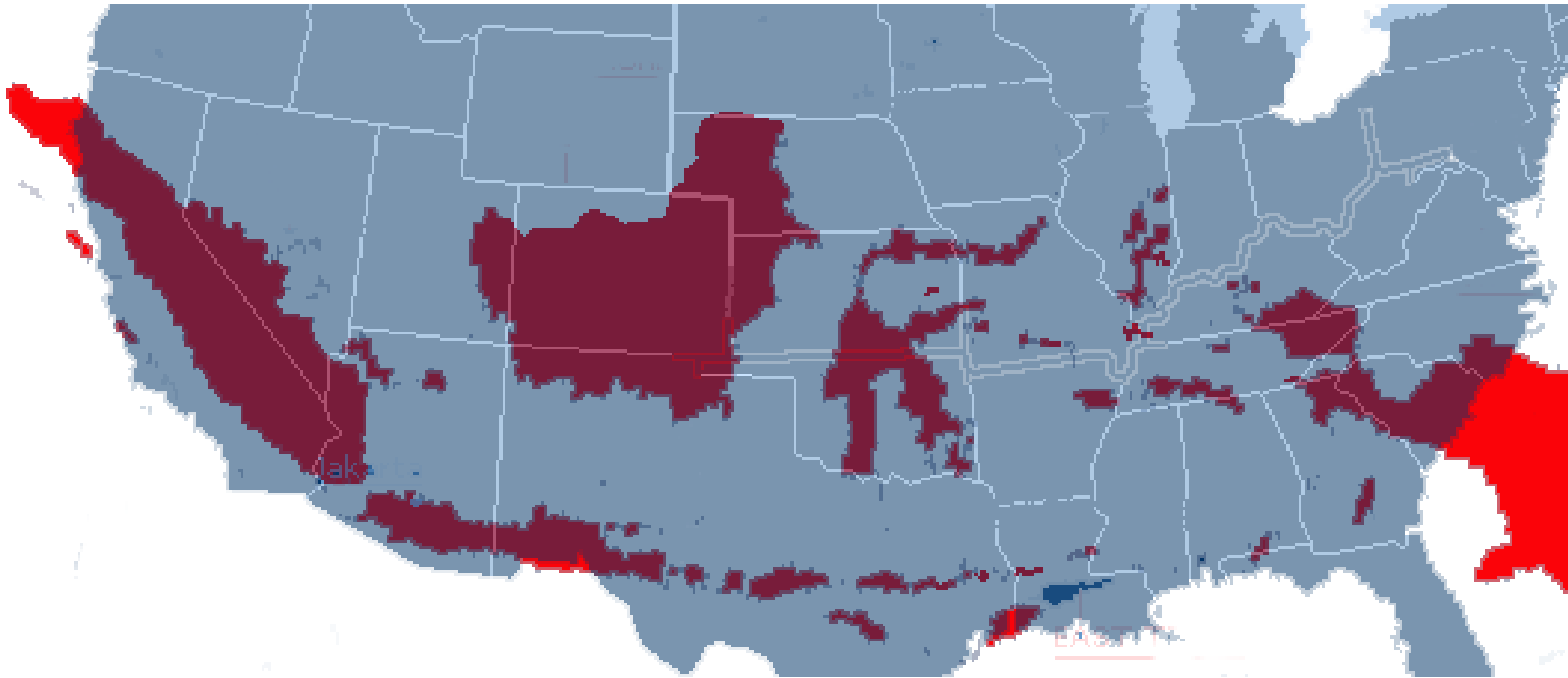


# Brief Info

- Population of more than 238 million people (2010).
- More than 300 ethnic groups.
- More than 700 living/spoken languages.
- Consists of 17,508 islands, about 5,000 of which are inhabited (5 of 10 world's largest islands are in Indonesia)
- 54,716 km coastline, 2<sup>nd</sup> longest in the world (after Canada)

# Geographical Comparison

## USA and Indonesia



# Overlooked.....

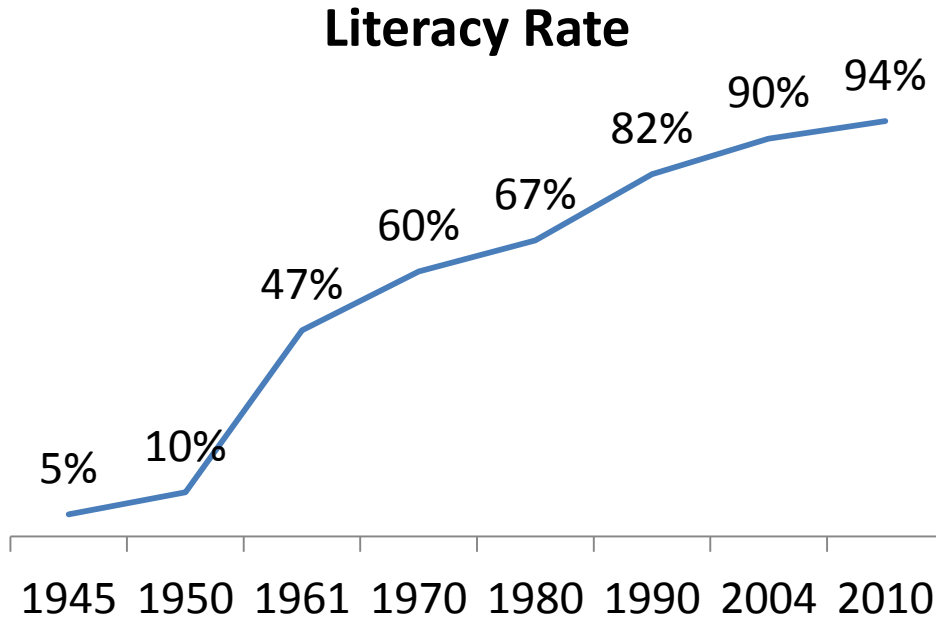
- 1 The 2<sup>nd</sup> largest coal exporter;
- 2 The largest Crude Palm Oil exporter (CPO is the material for bio-fuel, an energy alternative of the future);
- 3 The largest tin exporter;
- 4 One of the largest gas exporters;
- 5 One of the largest copper exporters;
- 6 More than half of the world's merchant fleet capacity sails through the straits of Malacca, strait of Sunda, and strait of Lombok.

# Overlooked.....

- 7 The 4<sup>th</sup> largest population (after China, India, and the US);
- 8 The 3<sup>rd</sup> largest democracy (after India and the US);
- 9 The largest Moslem Population ; (yet it is a non-religious based state: Pancasila)
- 10 The 2<sup>nd</sup> largest biodiversity (after Brazil), home for 20% of world flora and fauna, 17% of world bird species, 25% of fish species;
- 11 The 3<sup>rd</sup> largest tropical forest country;

# Progress in Indonesian Education

## *Achievement in Literacy Rate*



Source: BAPPENAS, Laporan Repelita, BPS

# State of Education: 1945 - 2010

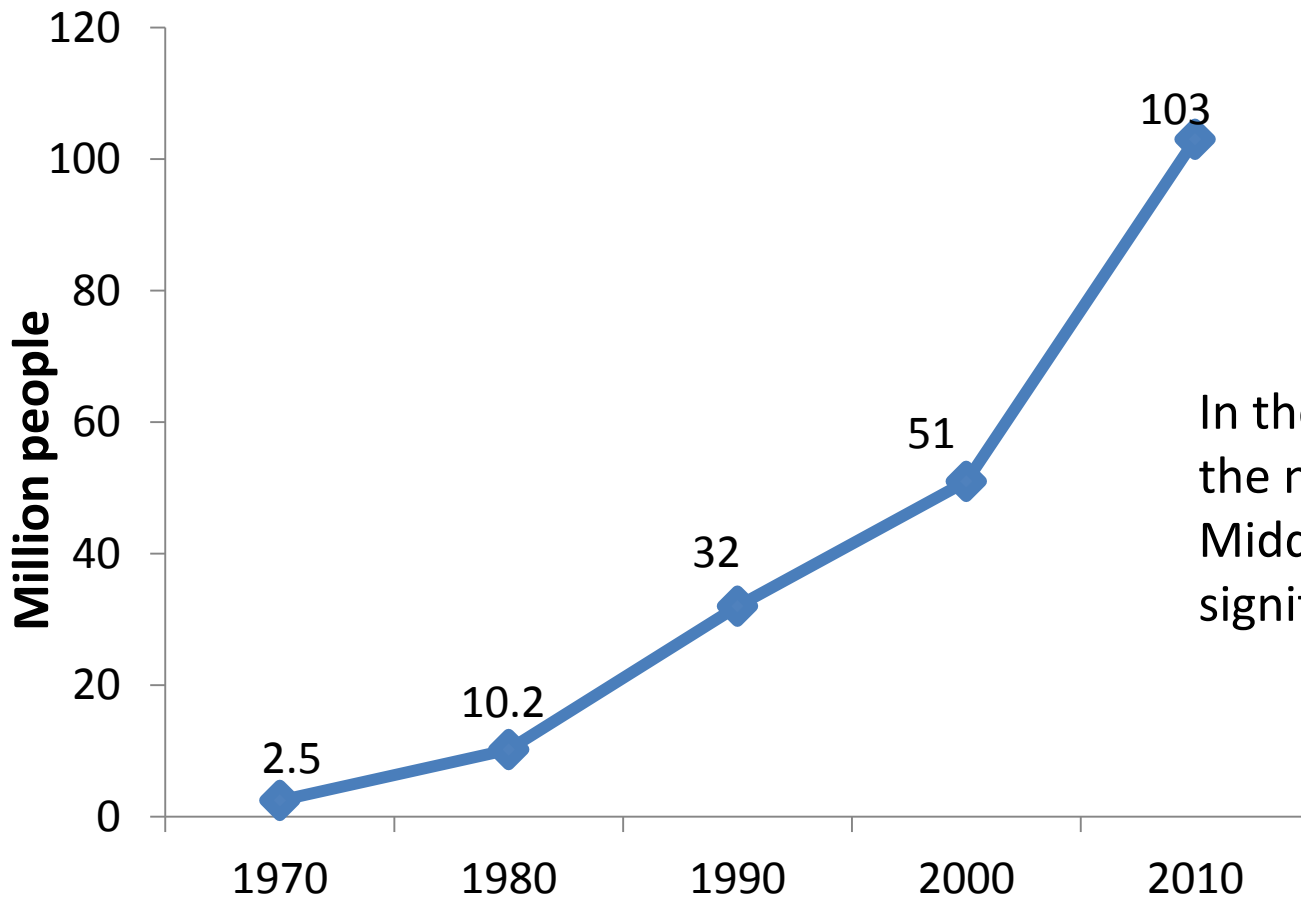
## Number of Institutions

	1945	1968	1980	1990	2010
Elementary School	15,000	63,100	95,000s	136,600	165,491
Middle School	322	5,891	12,000s	18,000s	43,888
High-Vocational School	92	731	6,000s	11,000s	25,332
University (state & private)	5	39	1,000	1,200	3,585

## Number of Students (in thousand)

	1945	1968	1980	1990	2010
Elementary School	2,500	12,300	21,166	26,528	30,340
Middle School	90	1,150	2,983	5,853	11,770
High-Vocational School	19	482	1,574	4,031	8,180
University (state & private)	< 2	156	425	1,621	4,890

# Growth of Indonesian Middle-Income

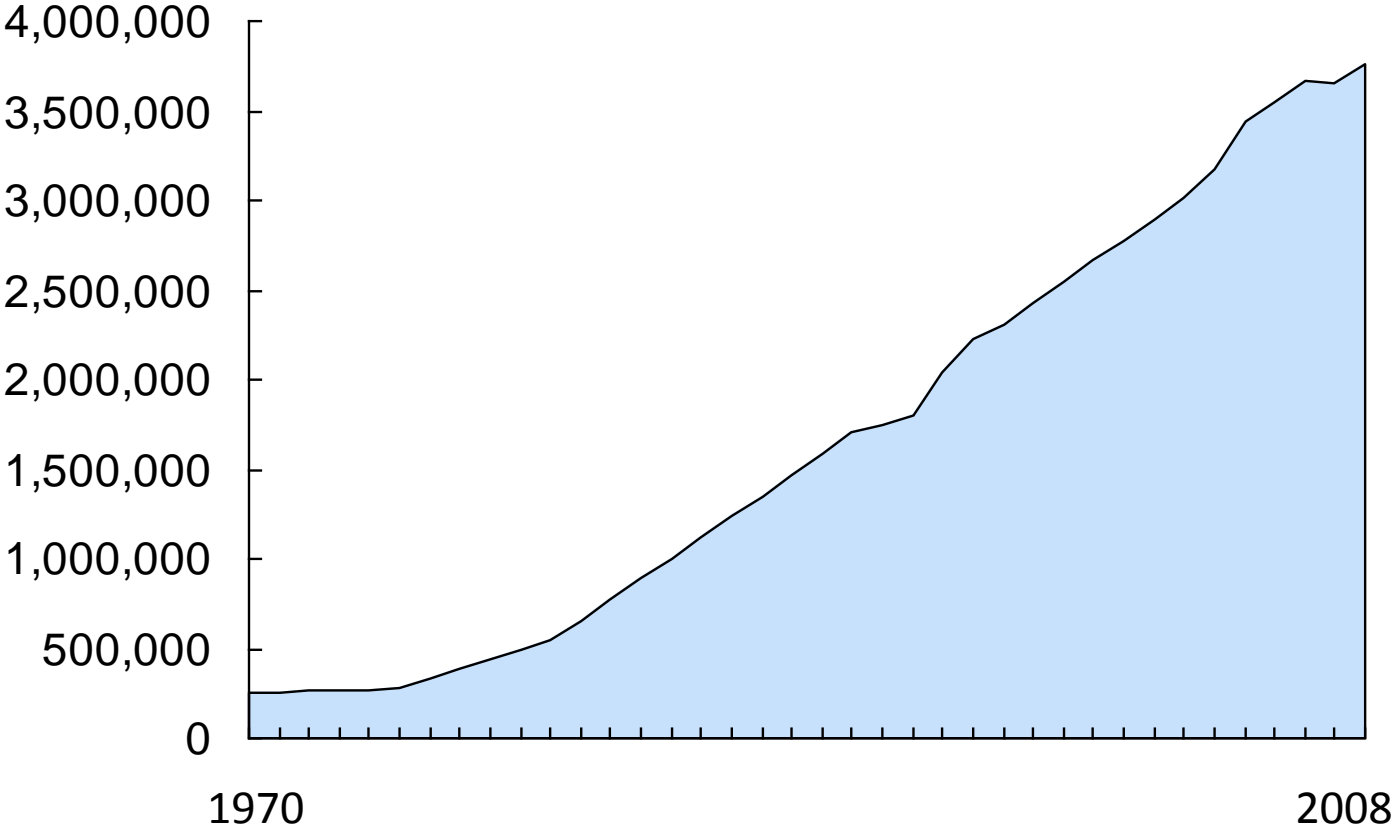


In the past 4 decades, the number of Indonesian Middle-income has grown significantly



# Number of University Students

Jumlah



# Emergence of New Middle Class

**1952**

**8**

Students volunteered to serve as high school teacher (2 year)

**1962**

**161**

Number of districts served by students

Pengerahan Tenaga Mahasiswa Started  
(Student Mobilization Program)

**1,418**

Number of students serving as high-school teacher

**1950's**

Government established High School in Every District (+/- 150 districts)

**1960's**

Significant jump in the number of university students coming from the common people

**1970's**

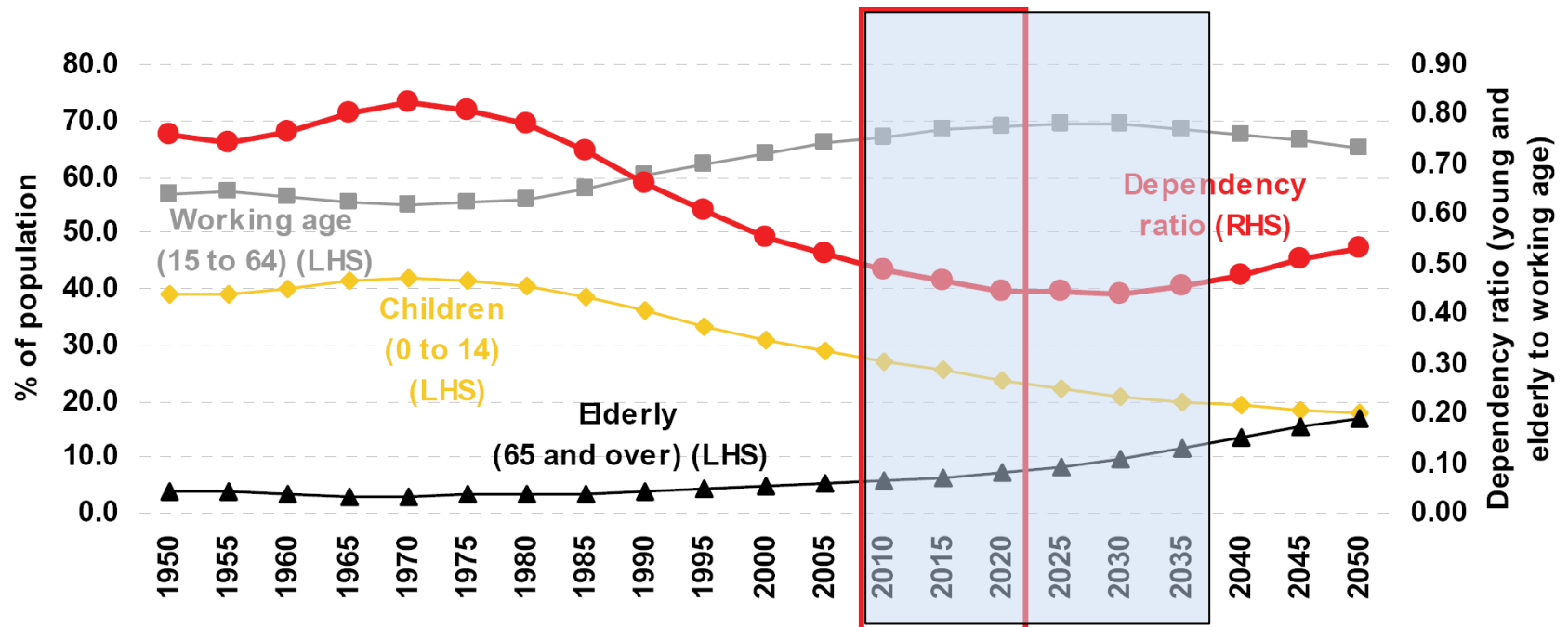
University graduates entering job market in a fast developing economy of Indonesia

**1980's**

Emergence of Indonesian 1<sup>st</sup> generation of new middle class, coming from all level of the society.

# Demographic Bonus: A Challenge for Indonesia

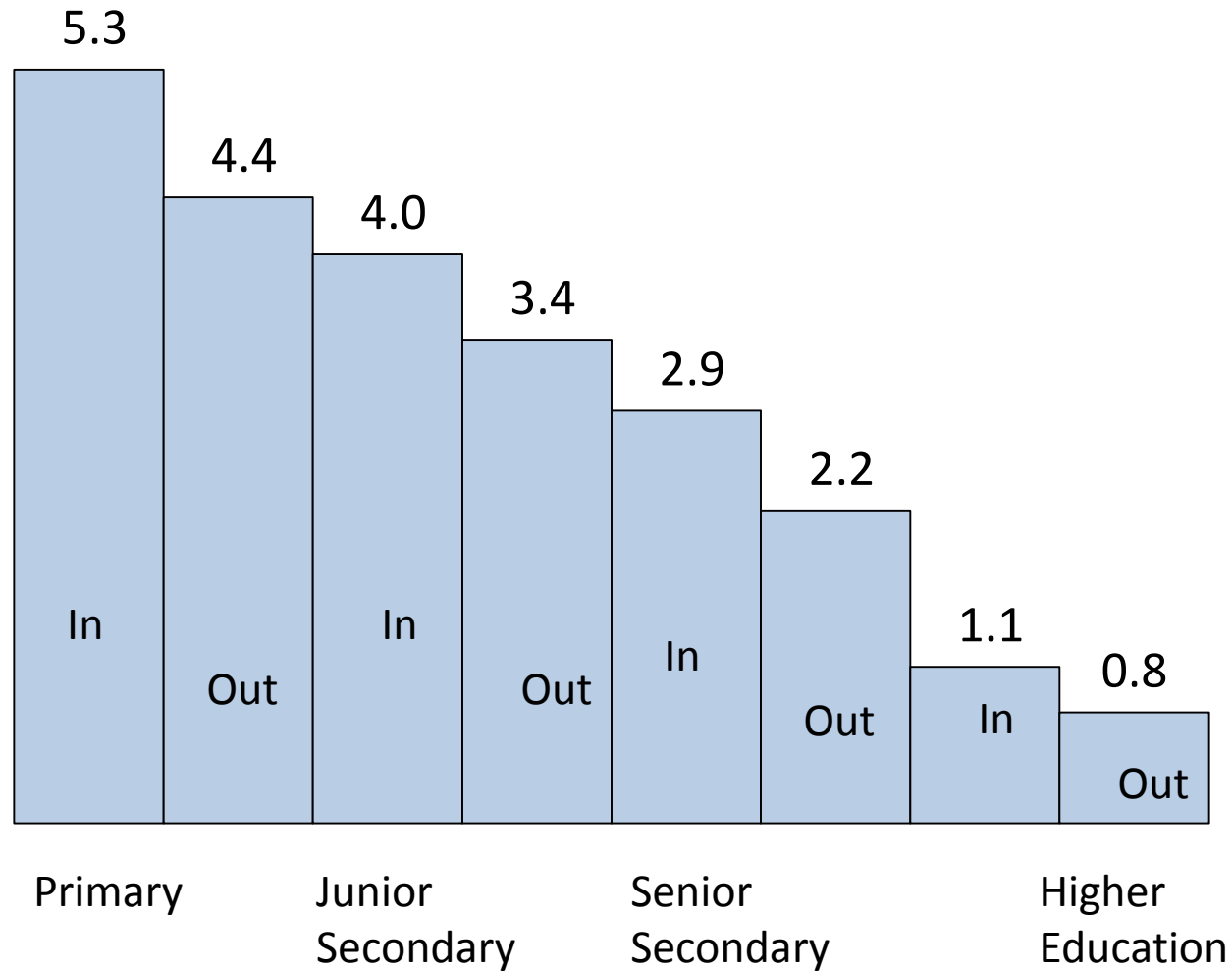
## Demographic Bonus



# Facility and Infrastructure of Education

	<b>Primary</b>	<b>Junior Secondary</b>	<b>Senior Secondary</b>	<b>Higher Education</b>
<b>Student (million)</b>	30,34	11,77	8,18	4,89
<b>Teachers (thousand)</b>	1.876	902	719	263
<b>Number of Schools</b>	165.491	43.888	25.332	3.585

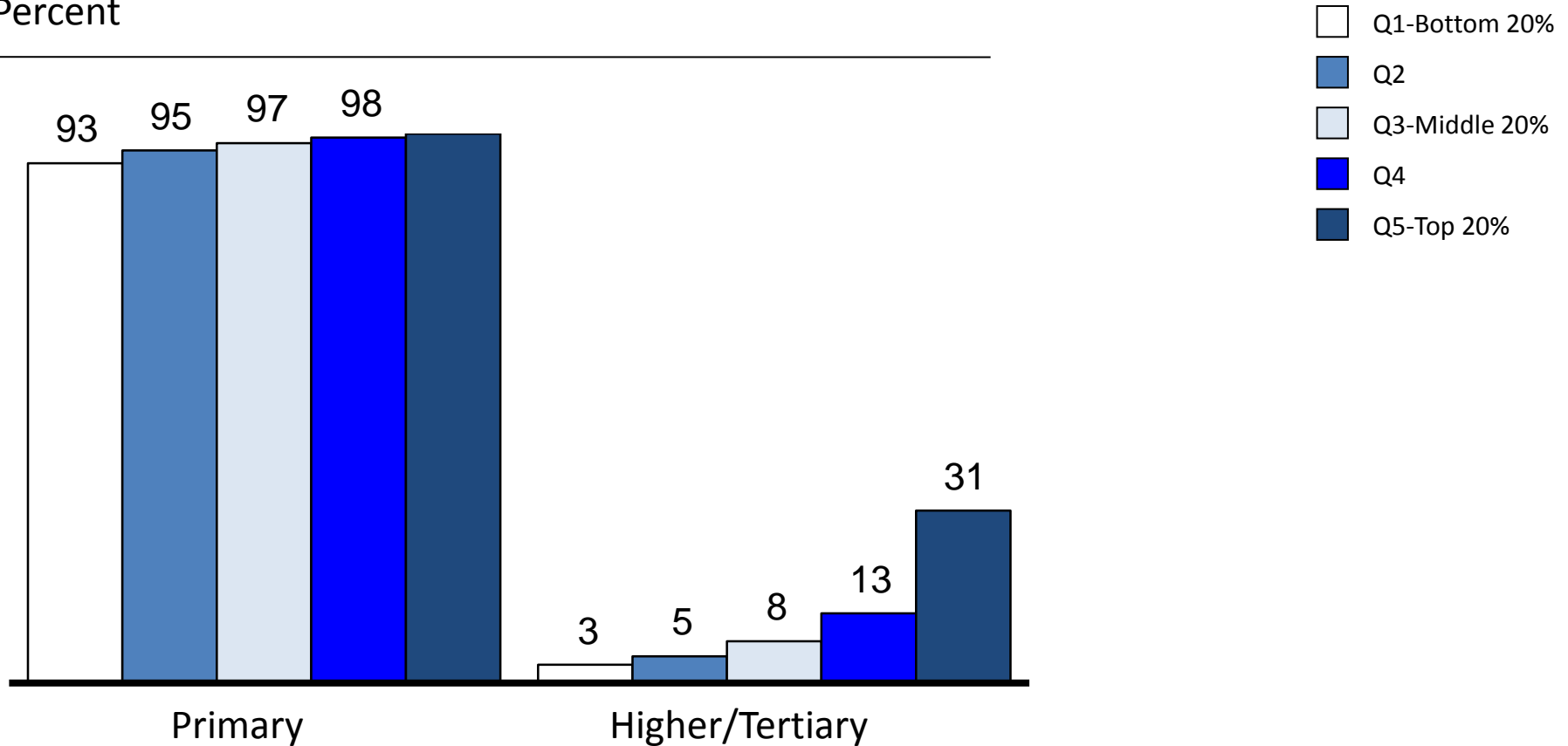
# Number of Students: Entrance and Graduates



# Access To Higher Education Has Expanded But Remains Unequal

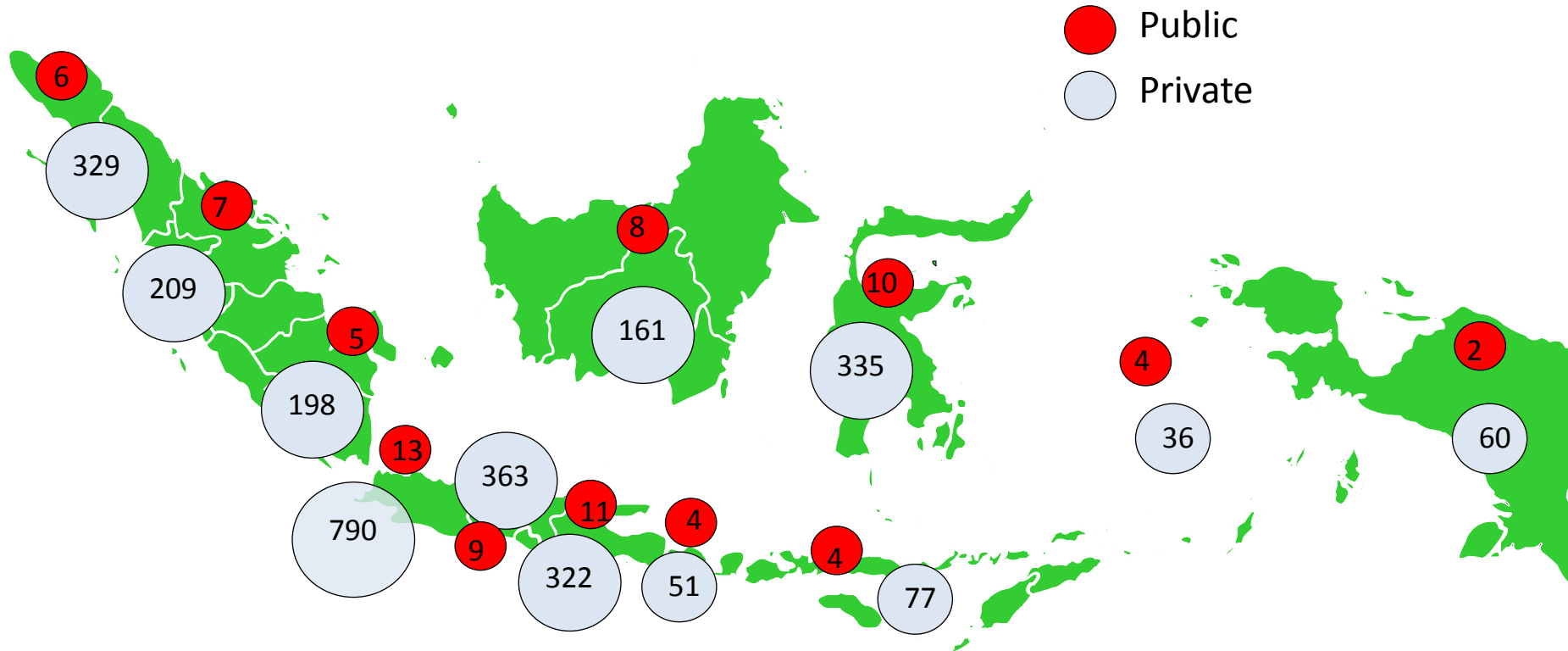
## Gross enrollment rates by economic quintiles, 2008

Percent



SOURCE: UNESCO "Higher Education in South-East Asia"

# Unequal Distribution of Higher Education Institutions



SOURCE: Ministry of Education and Culture, 2010

# Number of Researcher Per A Million Population

<b>Country</b>	<b>Number of Researcher in A Million Population</b>	<b>Research Budget to GDP Ratio</b>
<b>Indonesia</b>	90	0,08
<b>Malaysia</b>	365	0,63
<b>Singapore</b>	5.834	2,66
<b>Thailand</b>	316	0,21
<b>India</b>	136	0,76
<b>China</b>	1.999	1,47
<b>South Korea</b>	4.947	3,36
<b>Japan</b>	5.189	3,45

SOURCE: UNESCO Institute of Statistics



# Socio-Economic Background Determines Prospect For Getting Higher Education

