



Education's Right Angle

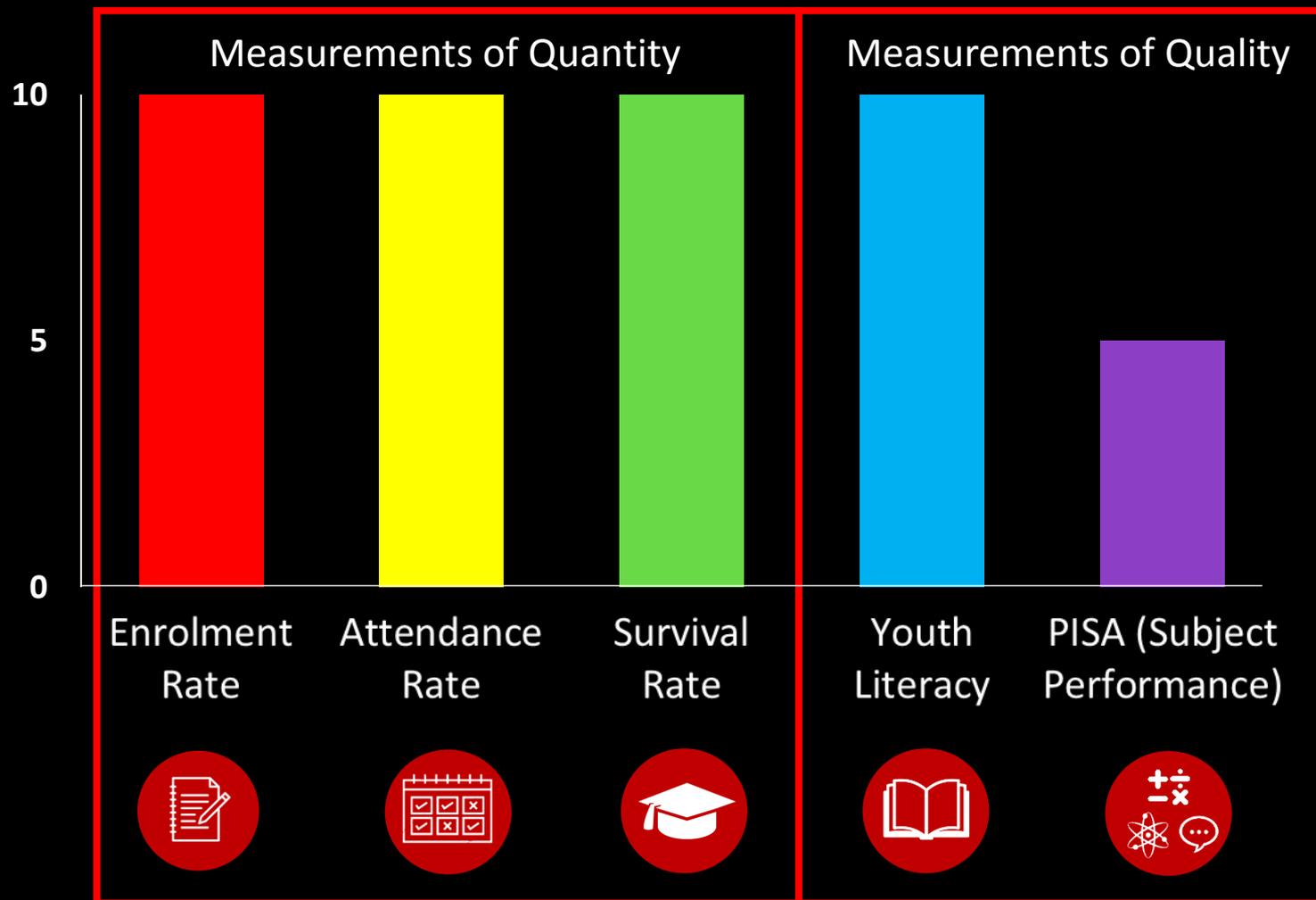
The intersection between Quantity and Quality

ASEANalysts

Thean Su Mei
Daphanee Wong

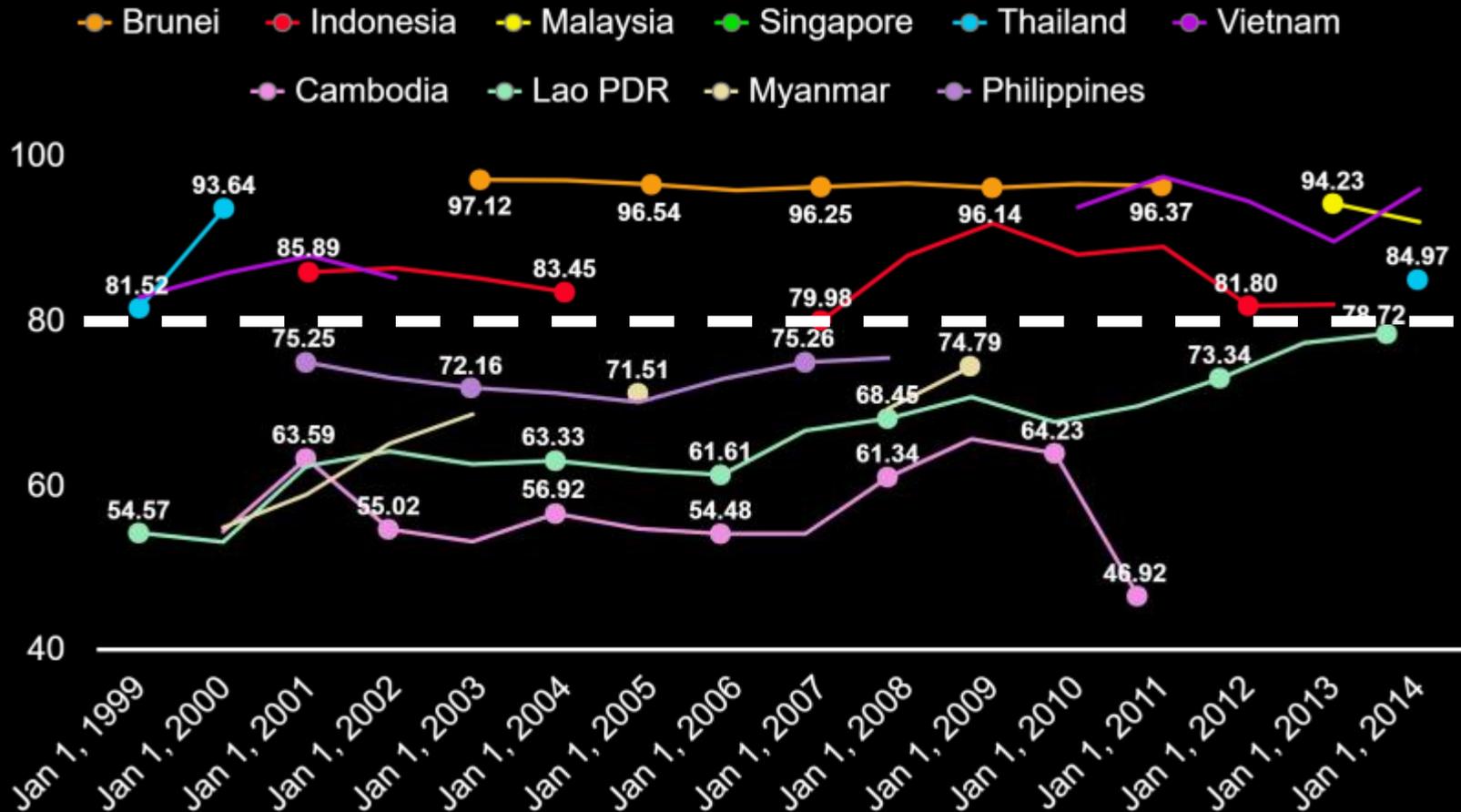
 **MONASH** University
Malaysia

How is a country's educational success most commonly measured?



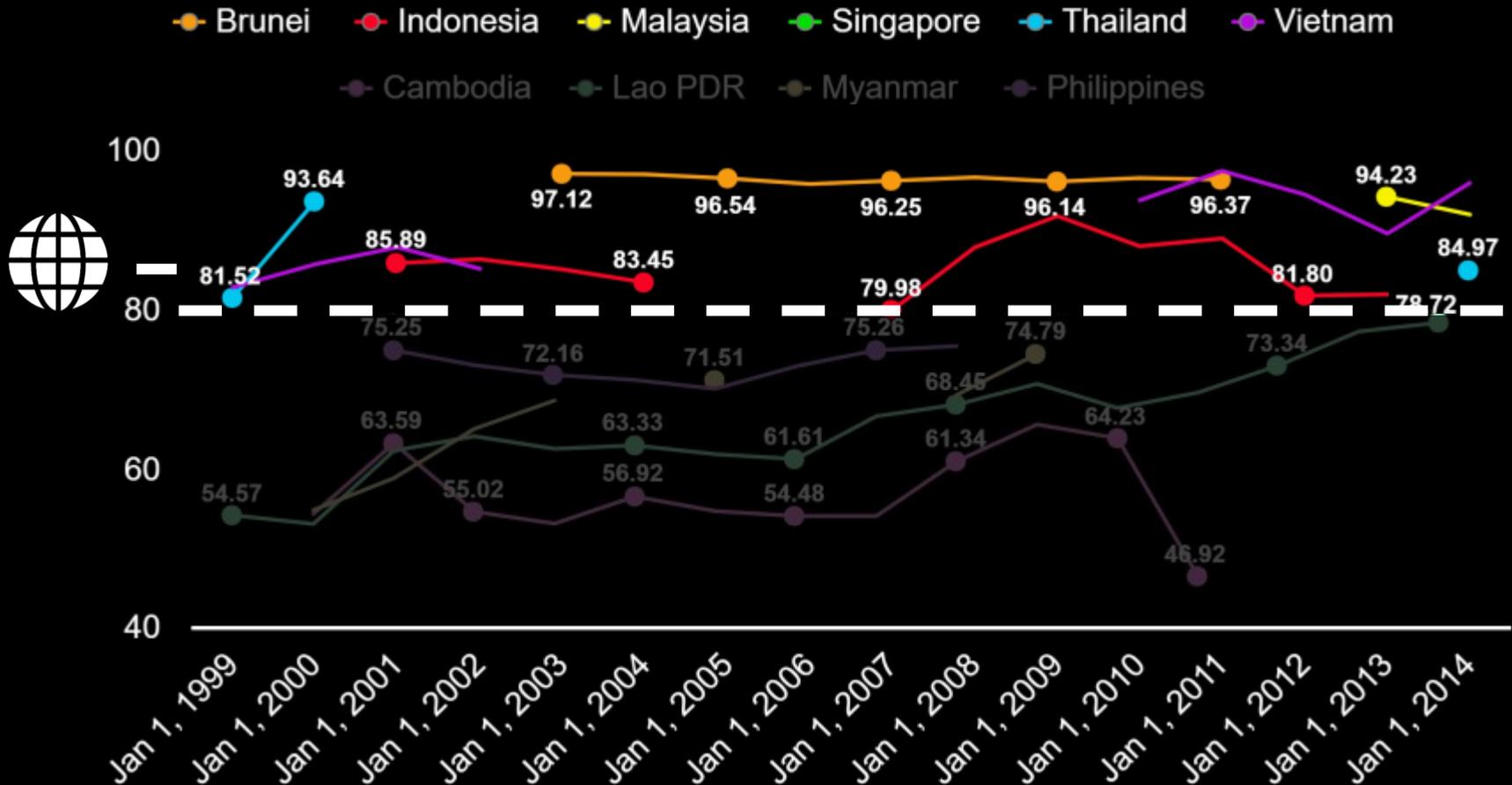


Survival Rate @ Primary School

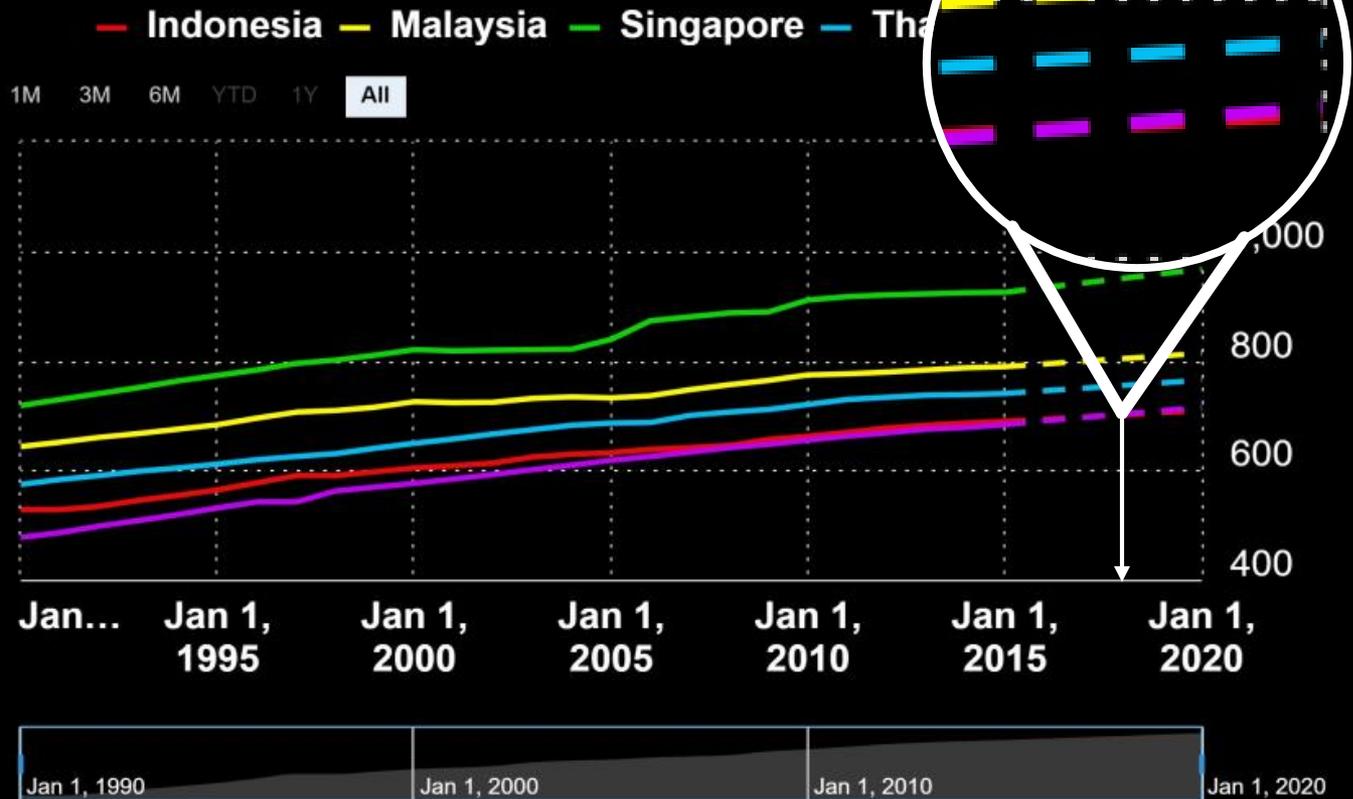




Survival Rate @ Primary School



Human Development Index (HDI)





PISA

Programme for
International
Student
Assessment

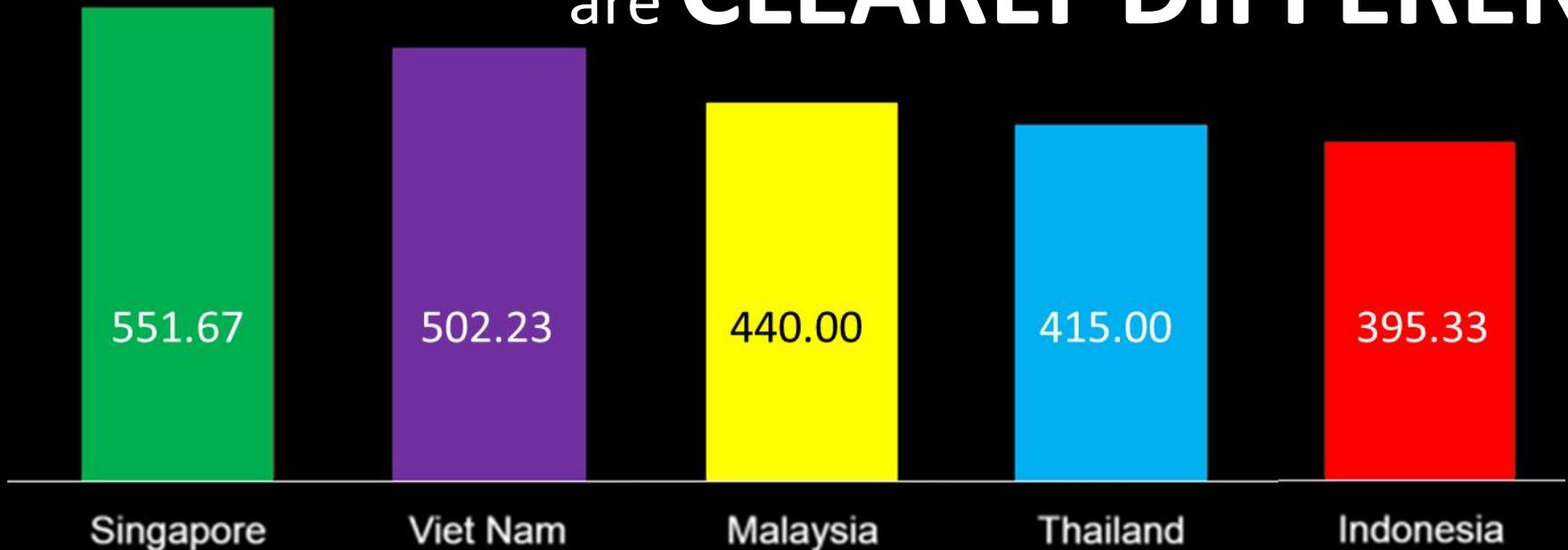
Triennial
international survey
evaluating
education systems
worldwide by
testing skills and
knowledge of 15
year olds



ALMOST SIMILAR performance
in terms of measurements of quantity...

BUT quality-wise, the performances

are **CLEARLY DIFFERENT**

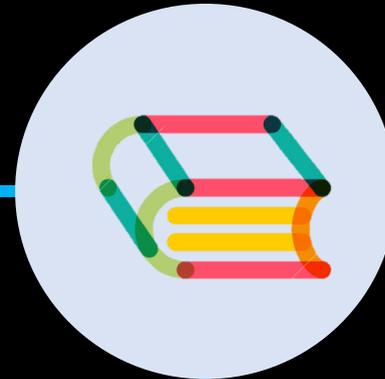


WHY THE DIFFERENCE?

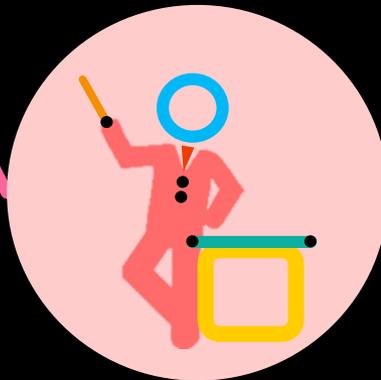
Time Spent Studying In and Out of School



Amount and Quality of Educational Resources



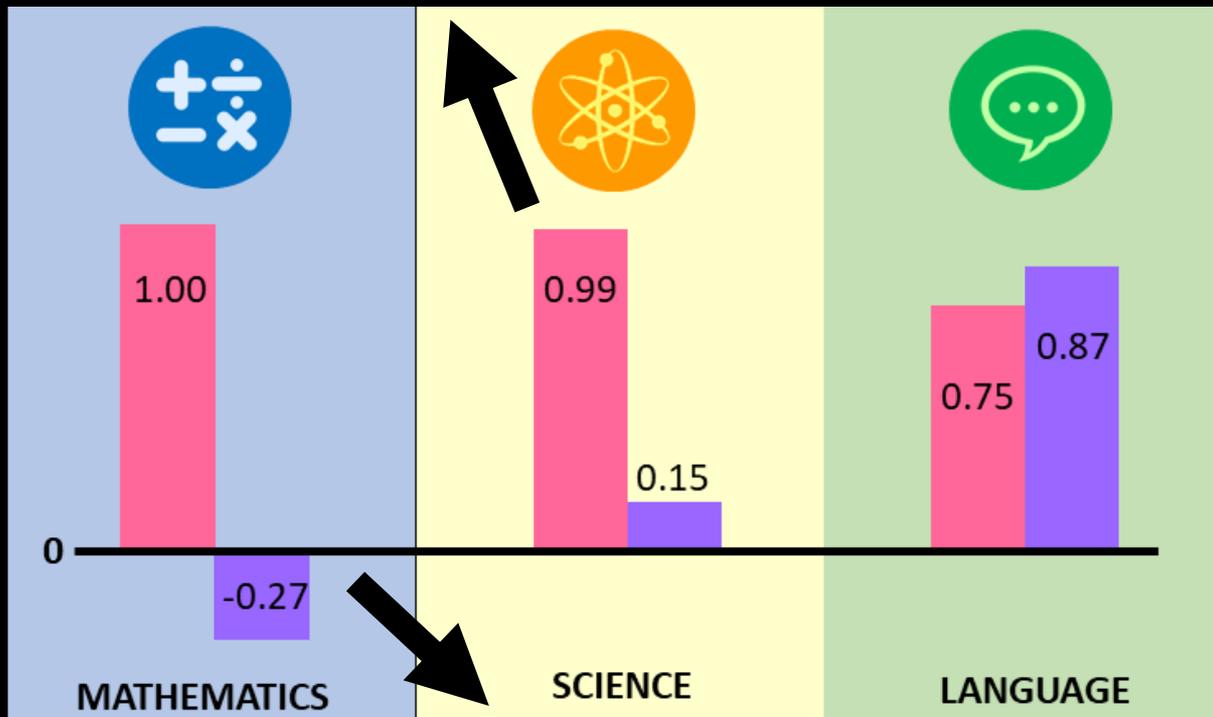
Number and Quality of Education Staff





Time Spent Studying (In and Out of School)

Science best learnt with
hands-on-experience



Sufficient time
practicing a
language is
essential for
mastery

Correlation between
Time Spent and
Performance

Little evidence that after school
maths centers are effective

REGULAR CLASS
OUT-OF-SCHOOL

Source: OECD (n.d.)



Educational Resource Index

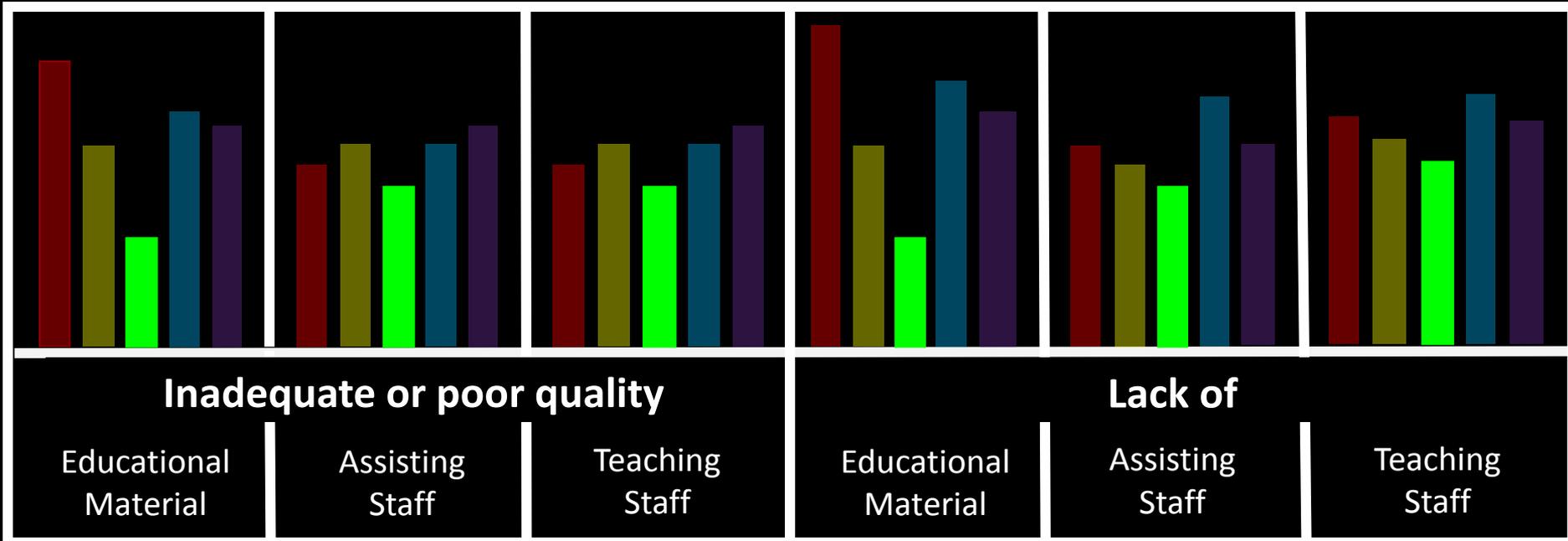
- Indonesia
- Malaysia
- Singapore
- Thailand
- Vietnam

Inadequate or poor quality			Lack of		
Educational Material	Assisting Staff	Teaching Staff	Educational Material	Assisting Staff	Teaching Staff



Key Findings

- Indonesia
- Malaysia
- Singapore
- Thailand
- Vietnam



Source: OECD (n.d.)

SINGAPORE

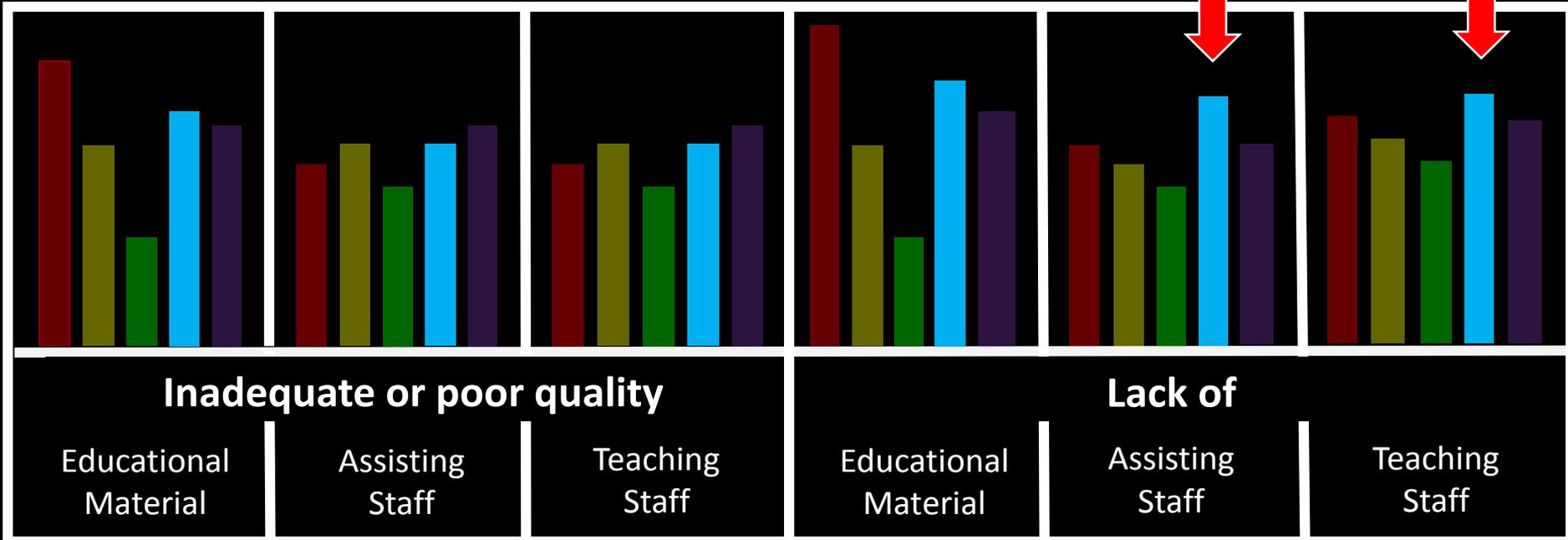


Best performer with **LEAST LACK**
for all resources



Key Findings

- Indonesia
- Malaysia
- Singapore
- Thailand
- Vietnam



Source: OECD (n.d.)

THAILAND

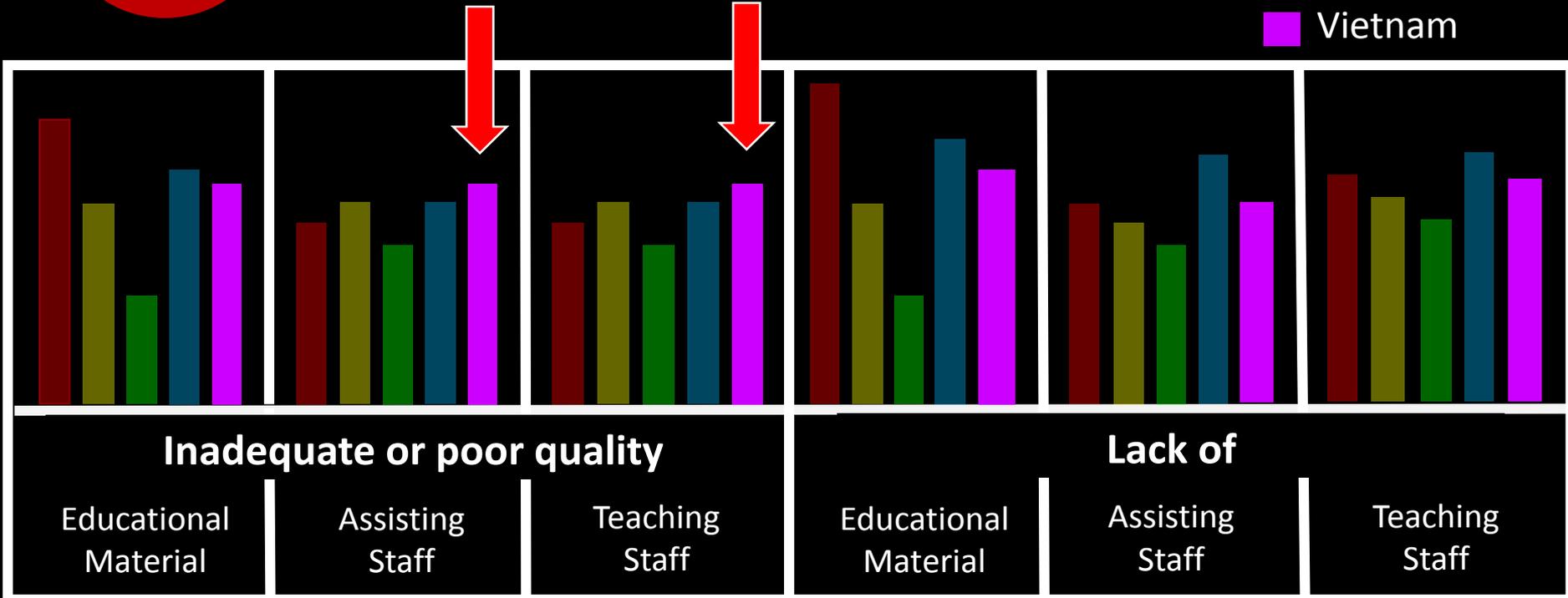


LACK in numbers and quality of **TEACHING & ASSISTING STAFF**



Key Findings

- Indonesia
- Malaysia
- Singapore
- Thailand
- Vietnam



Source: OECD (n.d.)

VIETNAM

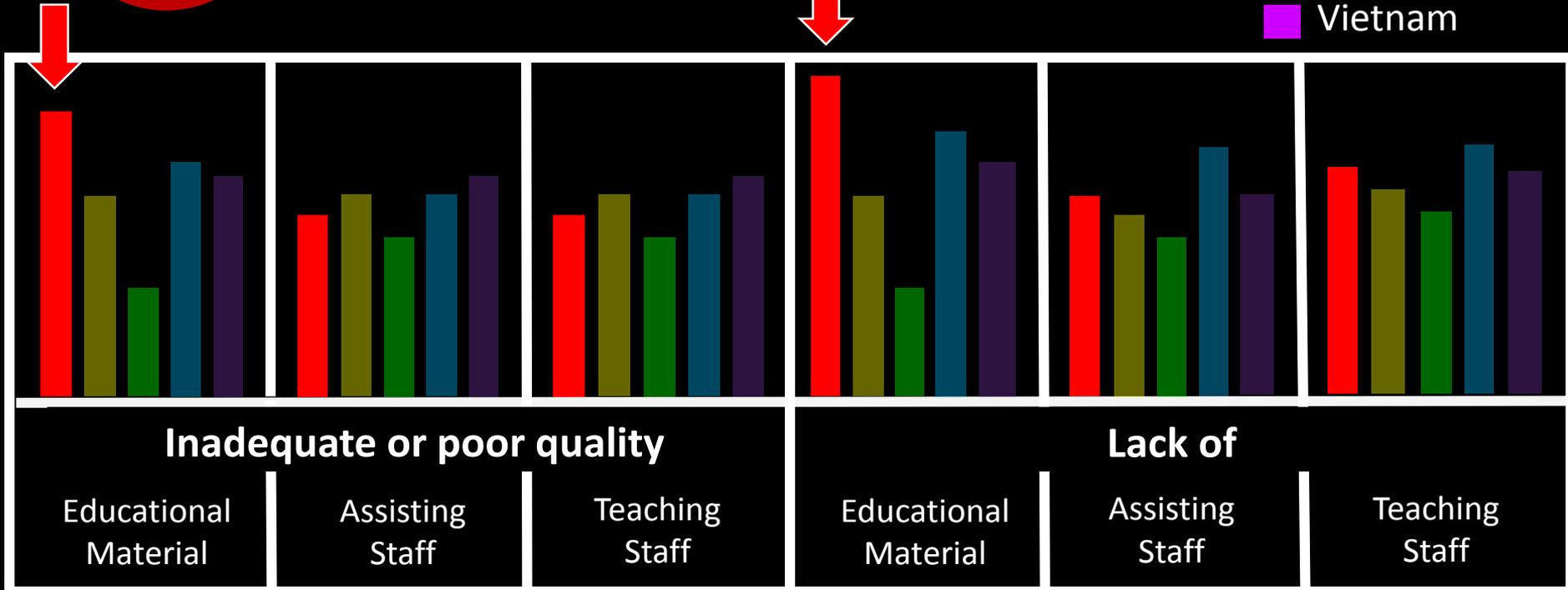


LACK adequacy and quality of
TEACHING AND ASSISTING STAFF



Key Findings

- Indonesia
- Malaysia
- Singapore
- Thailand
- Vietnam



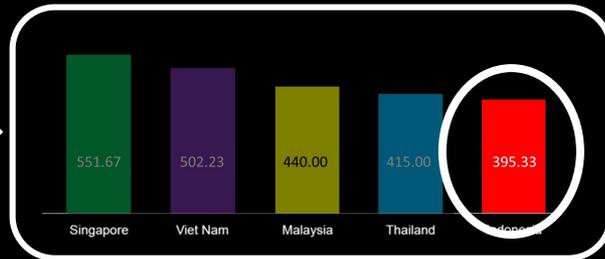
Source: OECD (n.d.)

INDONESIA



LACK in quantity and quality of
EDUCATIONAL MATERIALS

Level of Educational Resources

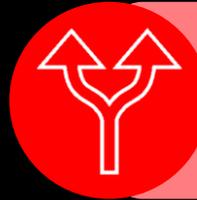


Educational Material
Strongest Negative
Correlation

Variable	Sub-Variable	Correlation with Average PISA scores
Inadequate of poor quality	Educational Material	-0.85
	Assisting Staff	-0.62
	Teaching Staff	-0.45
Lack of	Educational Material	-0.82
	Assisting Staff	-0.58
	Teaching Staff	-0.67

Where should we go now?

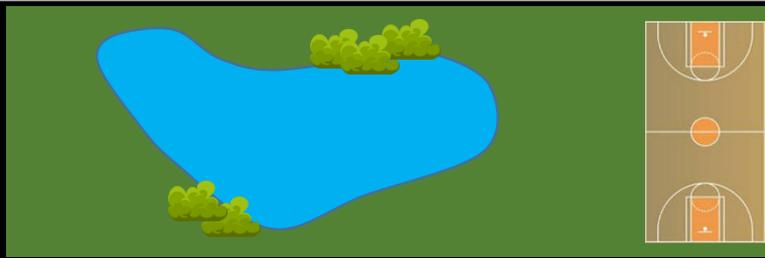
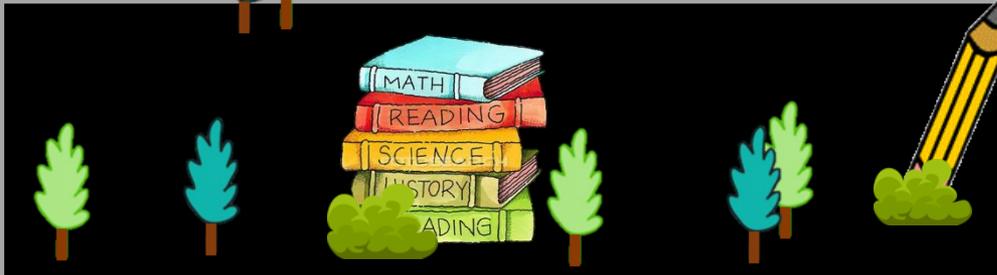
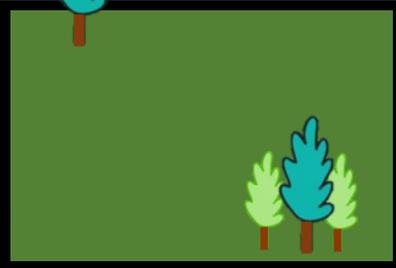
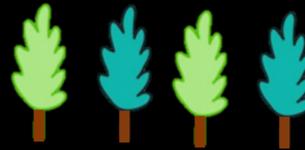
QUANTITY ↑



DIVIDE & CONQUER



QUALITY →



BRN - Brunei Darussalam
IDN - Indonesia
KHM - Cambodia
LAO - Lao PDR
MMR - Myanmar

MYS - Malaysia
PHL - Philippines
SIN - Singapore
THA - Thailand
VNM - Vietnam





**SOURCE for
RESOURCE**

Governments to invest more into obtaining high quality educational resources

Infrastructure



**Providing quality
materials to schools**

Building proper
facilities such as
science labs, internet
connections

Educational Material



**Providing quality
materials to schools**

Identifying materials
crucial to provide
proper instructions
at schools

Teaching & Assisting Staff



**Improving quality of
teachers**

Developing better
staff support and
training



Learning BEYOND
CLASSROOMS

Revamp the current
education systems and
methods of teaching in class



Provide a more holistic curriculum

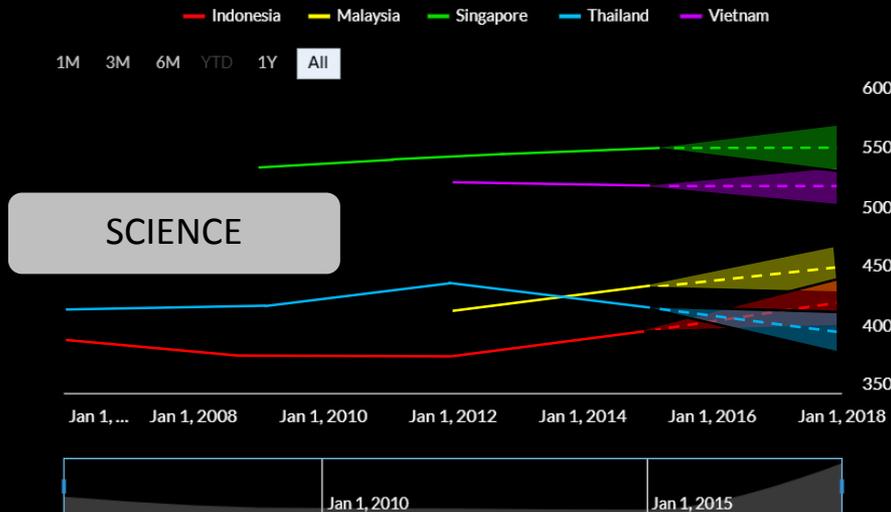
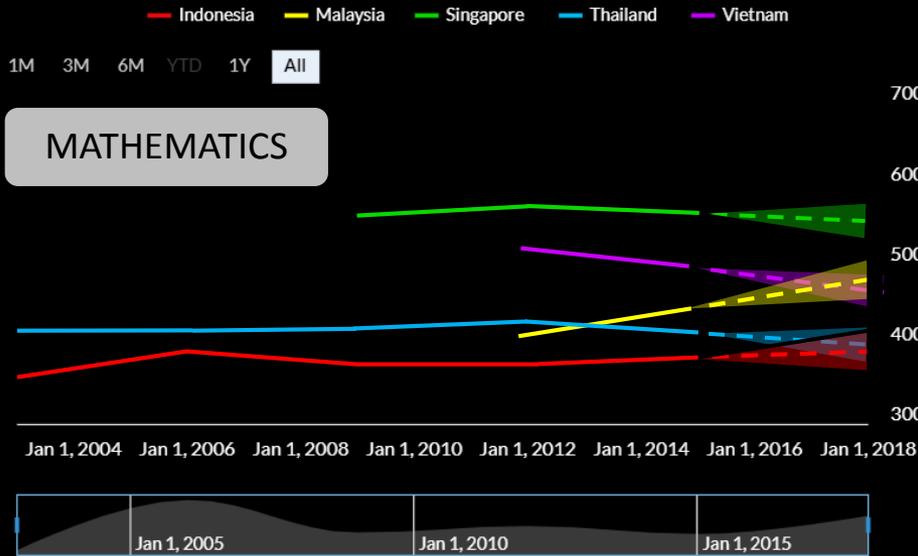
Educate students on the necessary life and soft skills

Device curriculums that go beyond the 3 basic areas of knowledge

Alter mindset to focus on the attainment
of knowledge rather than scoring in exams

Implementing
co-creation
curriculum

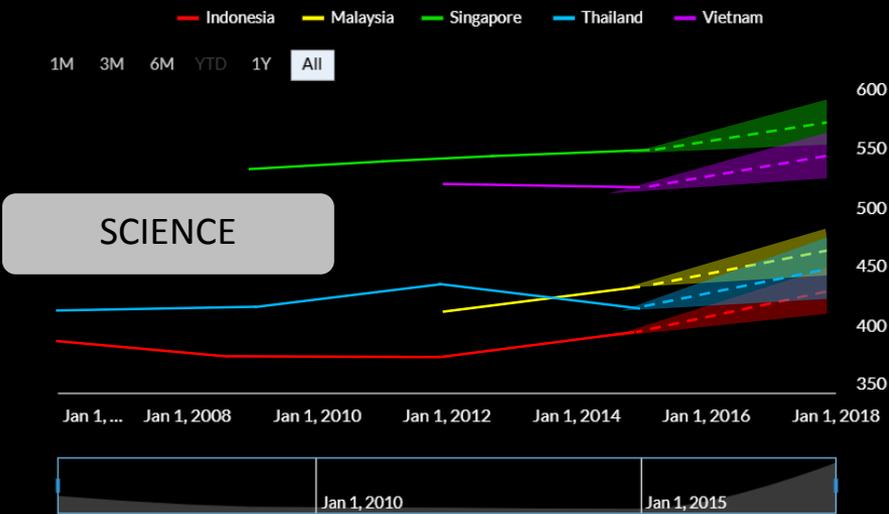
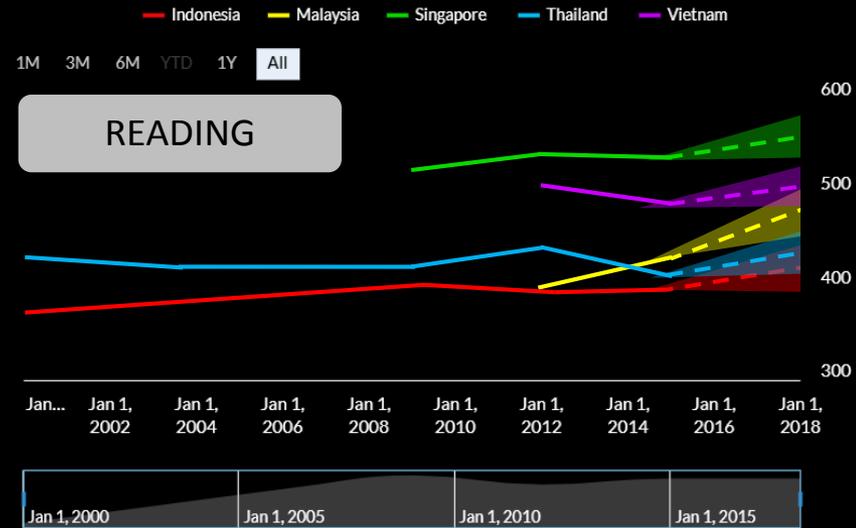
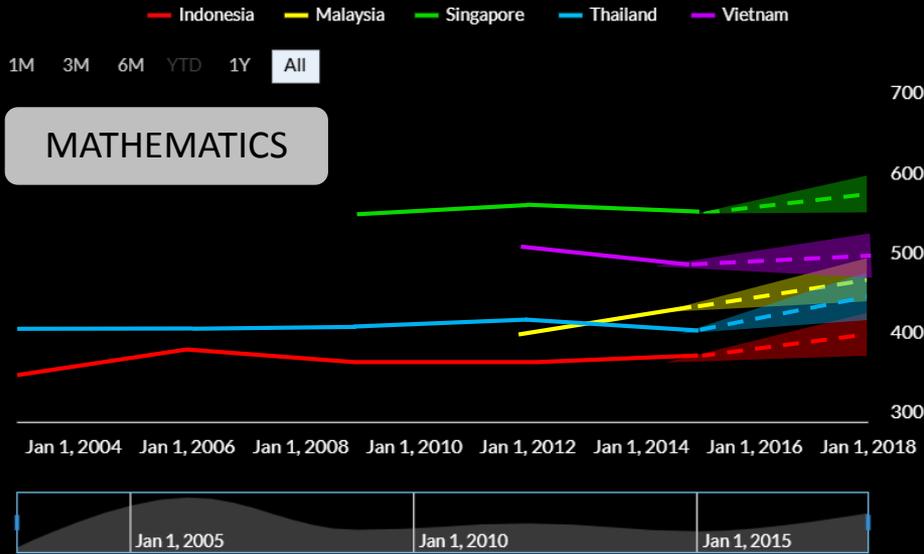
What if???



Assumption

- **No policy** implemented
- **Trend remains constant**

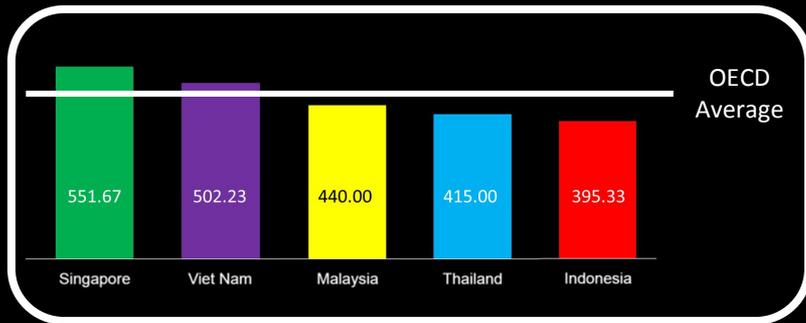
What if???



Assumption

- Policy implemented

SUMMARY



- **Maths and Science** best **learnt in school**
- **Language** requires a lot of **practice and time**
- **Lack of Quality Educational Materials** has a **strong impact** on student performance.



Education's Right Angle

The intersection between Quantity and Quality

**THANK YOU
FOR LISTENING**

QUESTIONS?