

# Sustainable and Equitable Partnership Opportunities in ASEAN Case of Indonesia

MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION  
REPUBLIC OF INDONESIA





# Indonesian Higher Education in Brief

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# Type of Higher Education Institution

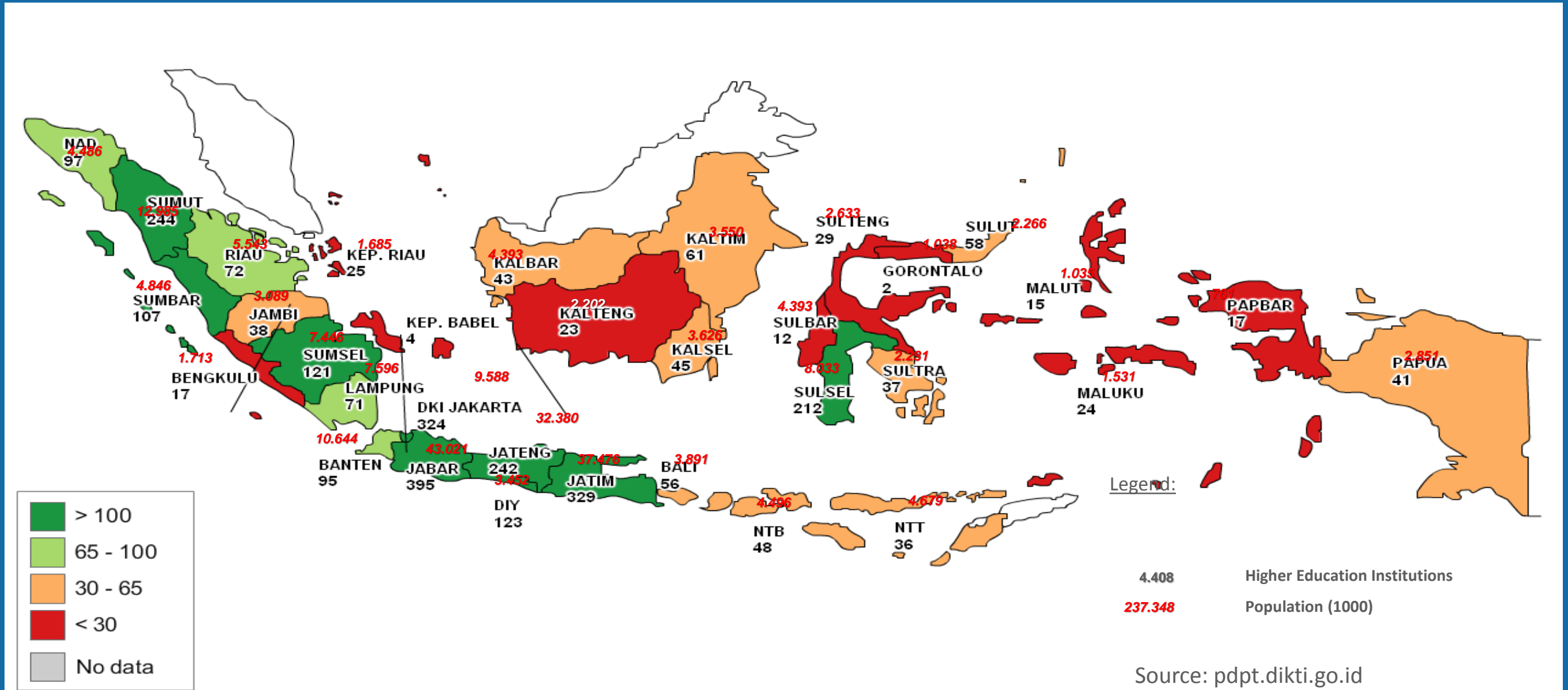
Type of Institution	Type of program		
	Academic	Vocational	Profession/Specialist
Akademi Komunitas		D1 D2	
Akademi		D1 D2 D3	
Sekolah Tinggi	S1 S2 S3		
Institut	S1 S2 S3	D3 D4 MT DT	PR SP
Universitas	S1 S2 S3	D3 D4 MT DT	PR SP
Politehnik		D1 D2 D3 D4 MT DT	PR SP

# Number of Higher Education Institution

Ministry	HE Institution			Faculty		
	Public	Private	Total	Public	Private	Total
MRTHE	121	3,096	3,217	69,798	151,526	221,324
MORA	74	942	1,016	11,630	8,586	20,216
Other	175	0	175	9,284	0	9,284
Total	370	4,038	4,408	90,712	160,112	250,824



# Distribution of Higher Education Institutions



Source: pdpt.dikti.go.id

**B**

# Strategic and Program of Ministry of Research, Technology and Higher Education

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## ABOUT INDONESIA



## VISION OF RISTEK-DIKTI MINISTRY

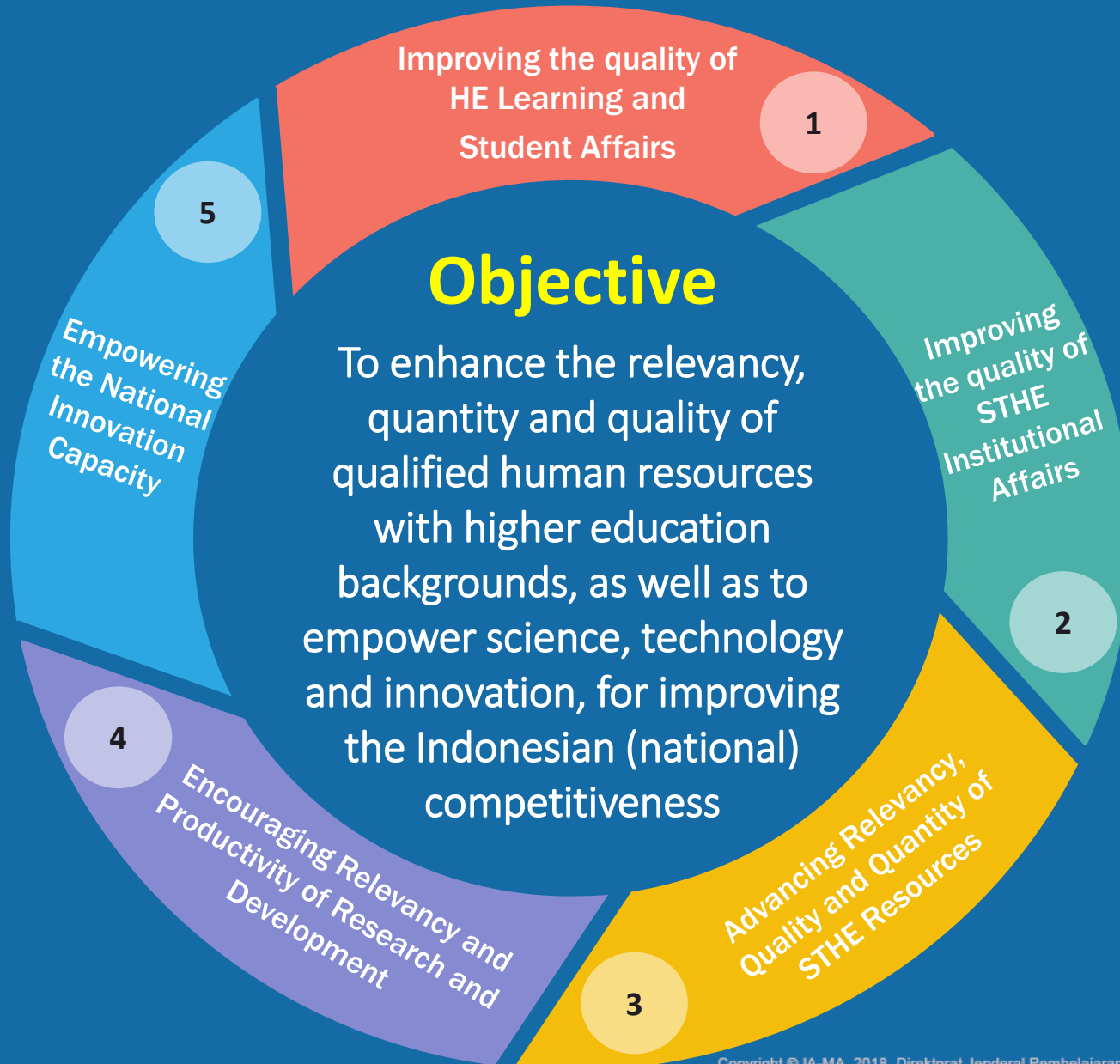
Creating of the qualified Higher Education and Improving Science, Technology and Innovation (STI) competency to promote the national competitiveness

### MISSIONS OF MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION, 2015-2019

1. Improving access, relevancy and the quality of higher education, in order to produce qualified Indonesian human resources
2. Leveraging the Science, Technology and Innovation competency, in order to increase the numbers of innovation products

# Strategic Objective and Goals

of the Ministry of Research Technology and Higher Education



1

- Student Mobility
- International Student Competition
- Mutual Recognition

2

- Science Techno Parks
- Center of Excellence
- World Class Universities
- Revitalization of Vocational Higher Education

3

- **Scholarship programs (degree, training, internship, mobility lecturers and staffs)**
- **Infrastructure development**
- **World Class Professors Diasporas**

4

- Joint Research – focusing national research priorities
- International Publications

5

- *Technoentrepreneurship*
- Innovation Incentive Programs
- Commercialization of RD, Innovation Products



# Focus Areas of National Research Master Plan (RIRN) 2017-2045

# 10



**1. Agriculture and Food**



**2. Energy, New and Renewable Energy**



**3. Health and Medicine**



**4. Information and Communication**



**5. Transportation**



**6. Defense and Security**



**7. Advance Material i.e. Nanotechnology**



**8. Maritime**



**9. Disaster Management**



**10. Socio Humaniora – Art and Culture– Education**

# Mobility Programs

- **Overseas Scholarships : Master and Doctoral Degree**
- **Enhancing International Publication (EIP) for doctoral students (faculty member);**
- **Scheme for Academic Mobility and Exchange (SAME) for senior faculty member (doctor/professor);**
- **International Joint Research and Publication;**
- **Double Degree/Joint Degree/Credit Transfer;**
- **Summer Schools, International Social Community Services, Academic International Mobility for Students (AIMS);**
- **Academic Consortium → Center of Excellence for Innovation**
- **Engagement in some international mobility programs: Erasmus Plus, New Colombo Plan, Asean+3. etc**

# Joint/Double Degree Program

- ❖ A term of Joint degree is used for collaborative study programs with the same discipline; a double degree is used for collaborative study programs with different disciplines but still has interception;
- ❖ Each study program provides its own certificate;
- ❖ The study program must have good quality and be accredited in its respected country; In Indonesia, the accreditation of the study program must be at least B;
- ❖ At least 50 percents of the courses or length of study should be done by Indonesian university;
- ❖ The courses can be done as mobility with movement (a traditional class) or mobility without movement (blended online courses);
- ❖ The collaboration should be reciprocal in term of student mobilities/faculty exchanges/other approaches;
- ❖ The study program must provide a diploma supplement.

# A Concept of TNE

- ◆ It will refer to Govt Regulation No. 12/2012 about Higher Education at Article 90:
  - An overseas University can offer a higher education degree in Indonesia and respects to Indonesian Law;
  - The overseas university must be accredited in its home country;
  - The Gol will define the location, types and kinds of study program;
  - The overseas university must:
    - Has permission from the Gol
    - Be non-profit Oriented
    - Has collaboration with local/Indonesian universities permitted by Gol
    - Involve Indonesian faculty and administrators
  - The overseas universities must be inline with Indonesian interest

# A Concept of TNE (continued)

## 1. Having collaboration with Indonesian University:

1. Having status/ being treated as a private university;
2. Having collaboration in academic, research and innovation.

## 2. Being permitted to have investment in a such economic specific region (KEK):

1. KEK of Higher Education, or
2. KEK of manufacture (8) or tourism (4) (have been established by GoI).

## 3. Overseas university to be permitted must have good quality in term of :

1. Accreditation – nationally or internationally,
2. World University Ranking (i.e. QS Ranking),
3. Outstanding study programs needed by Indonesia (i.e. STEM and Business).

## 4. Overseas university could be in a form of **mobility without movement** through online learning (SPADA – IDREN → Indonesia Cyber University).



# Disruption Technology in the era of The 4<sup>th</sup> Industrial Revolution



“Most of the companies use technology for marketing their products through online system” – The Economist, 2017

Indonesia needs to improve the quality of skill workers by mastering digital technology (Parray, ILO, 2017)

More than 55 % of the world organizations state that the *digital talent gap* is expanding (Linkedin, 2017)

## DISRUPTIVE TECHNOLOGY IN HIGHER EDUCATION INSTITUTIONS



**Competency-based Education:** Indonesian students have various and different abilities and capabilities. Technological assistance will help such students to select the appropriate academic programs which fit to themselves.



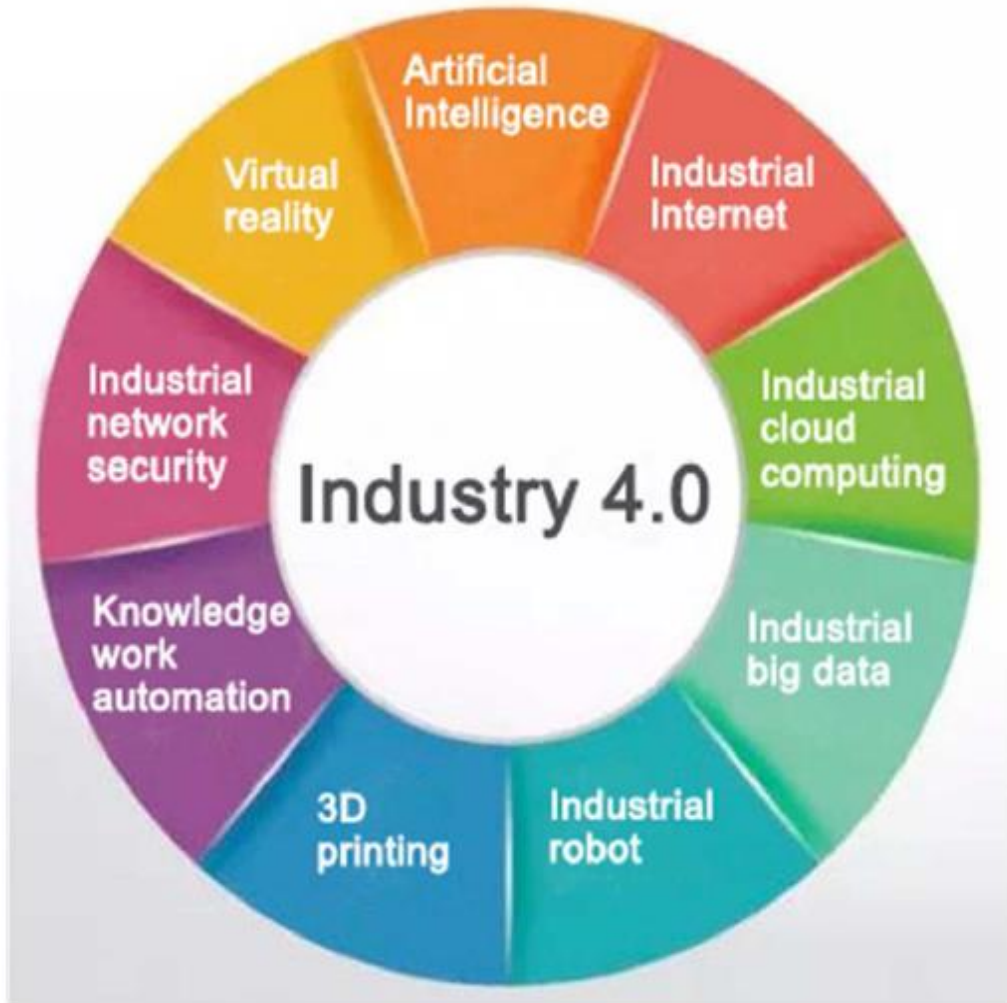
**The Internet of Things:** will encourage communications amongst the students, lecturers, tutors, etc, as well as promote connectivity amongst the educational facilities, ie research equipments, tools, machineries, libraries, open access research centers



**Virtual/Augmented Reality:** will create an environment for Indonesian students so they could work through virtual system but with the same programs. Especially for the complicated practicum who deals with dangerous materials



**Artificial Intelligence (AI):** online learning platform. Applying AI will help Indonesian students to adjust with the required demands that such students need.



*Disruptive Innovation In Higher Education*



# HIGHER EDUCATION IN THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION ERA



## Curriculum Reorientation

- New Literature (data, technology and *humanities*) is developed and taught.
- Extra curricular activities in order to develop the leadership skill and team work, should be implemented
- **Entrepreneurship** and **internship** is compulsory.



## Hybrid/Blended Learning, Online

Applying *Hybrid/Blended Learning* through SPADA-IdREN.



## Establishing *Life-long Learning unit*

It is recommended that higher education institutions have working unit for providing *life-long learning* services



**Providing grants and technical guidance services for curriculum reorientation (GEN-RI 4.0) for 400 universities**

# Thank You

