REGIONAL REPORT: INDONESIA

BUILDING CAPACITY THROUGH TECHNOLOGY AND INNOVATION

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BINUS UNIVERSITY
OUTLINES

1. INDONESIA Economy
2. Higher Education Overview
3. Capacity building
4. Research development
5. Entrepreneurship and innovation
6. Technology, digitalization, and connectivity
1 INDONESIA Economy

4th world largest democracy with population of 250 million

The only ASEAN country that is one of G20 members

Multicultural country 17,000 islands (5,000 inhabited), 11,000 dialects, 6 recognized religions and beliefs

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Indonesia today ...

16th-largest economy in the world

45 million members of the consuming class

53% of the population in cities producing 74% of GDP

55 million skilled workers in the Indonesian economy

$0.5 trillion market opportunity in consumer services, agriculture and fisheries, resources, and education

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... and in 2030

7th-largest economy in the world

135 million members of the consuming class

71% of the population in cities producing 86% of GDP

113 million skilled workers needed

$1.8 trillion market opportunity in consumer services, agriculture and fisheries, resources, and education

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www.apaie2018.org
Indonesia Development Plans

• Indonesia has formulated a long-term development plan which spans from 2005 to 2025. The National Long Term Development Plan (RPJPN 2005-2025)

• The RPJPN is segmented into 5-year medium-term plans, each with different development priorities
2015-2019 Plan

• Improving the quality of human resources and the welfare of the people (education and health)
• Inclusive and sustainable economic development (with a focus on science, technology and innovation)
• “Preparation for fundamentals of solid development“
• Improving and balancing local / regional development
• Accelerate infrastructure development for growth and economic equality
• Improving the management and the “added values” of sustainable natural resources
• Improving the quality of the environment, natural disaster mitigation and climate change
2015-2019 Plan

• Changing the direction of development in Indonesia to become a strong maritime country and maritime-based country

• Emphasizing the commitment to develop rural and remote areas (Eastern Indonesia, the scope of the regions are Sulawesi (Celebes), Borneo (Kalimantan), Moluccas (Maluku), West and East Nusa Tenggara and Papua)

• Developing Indonesia from the outer areas by strengthening rural areas and villages in the framework of unity in diversity

• Realizing the independency of economy by prioritizing strategic sectors of domestic economy

• Strengthening national identity, ‘Ke-bhinekaan’ (unity in diversity) and social restoration of Indonesia
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 RISTEK DIKTI MINISTRY 2015-2019 (Courtesy SecGen Prof Ainun Na’im)

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

www.apaie2018.org
Quality Improvement of HE becomes the first priority of HE Strategic Plan of 2015 - 2019
STRATEGIC OBJECTIVE AND GOALS
(Courtesy Sec Gen Prof Ainun Na’im)

Enhancement of the relevancy, the quantity and quality of qualified human resources which have higher education, and advancement of STI competency to improve national competency

1. Improving the quality of ‘Learning and (Higher Education) Students’
2. Improving the quality of STHE Institutional Affairs
3. Advancing relevancy, quality and quantity of STHE Resources
4. Encouraging relevancy and productivity of Research and Development
5. Strengthening the national innovation capacity

www.apaie2018.org
Enrollment data

• Population: 260 million
• 19-23 population: 21.5 million
• Population primary 30 million+
• Population secondary 20 million+
• Population in tertiary 5 million +
• Expectation 2030 10 million+
How to tackle market need and tertiary enrolment growth

- Capacity building – lecturers and quality of institutions
- Entrepreneurship development
- Research and innovation
- Access of education through online/distance learning
### INDONESIA Quality of Education

Sumber: BAN-PT & Penajam Bika, 2 Des 2016

**Belum Terakreditasi**
- Total PT: 4.512
- 3.493 (77%)
- 1.019 (23%)

**Desember 2016**

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<th>B</th>
<th>C</th>
<th>Total PT</th>
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<td>302</td>
<td>691</td>
<td>4.512</td>
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Sebaran PTN dan PTS Di Lingkungan Kemenristekdikti

3.276
(Jumlah Total)

3.154
(Jumlah PTS)
Increasing number and competency of lecturers

https://forlap.ristekdikti.go.id
Sebaran Jabatan Fungsional Dosen Kemristekdikti Tahun Ajaran 2016/2017

- Tanpa Jabatan: 109.110
- Asisten Ahli: 47.871
- Lektor: 46.620
- Lektor Kepala: 29.287
- Profesor: 4.949

Sumber Data: Pangkalan Data Pendidikan Tinggi, 27 Januari
8 Research Focuses of HEIs in Indonesia

1. Health & Medicine
2. Food & Agriculture
3. ICT
4. Advanced Materials
5. Transportation
6. Defense
7. New & Renewable Energy
8. Maritime
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<th>KPI 1</th>
<th>Jumlah kekayaan Intelektual terdaftar</th>
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<td>1,580</td>
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<td>7,769</td>
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<tr>
<td>2018</td>
<td>14,000</td>
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<tr>
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<td>530</td>
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<td>2016</td>
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<td>2017</td>
<td>783</td>
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<td>25</td>
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SEBARAN PEMBANGUNAN
SCIENCE AND TECHNO PARK (STP)
UNGGULAN KEMENRISTEKDIKTI

BIDANG FOKUS :
- Pangan & Energi Terbarukan
- Pangan
- Pangan
- Pangan & Energi Terbarukan
- Manufaktur
- Pangan
- Pangan
- Pangan & Pertambangan
- Pangan (Sagu) & Pengolahan Kayu

www.apaie2018.org
President’s Vision: 1000 Startups By 2020

The country’s President, Joko Widodo, in June 2016 also launched an initiative called ‘1000 Startups Movement’. The initiative aims to foster 1000 startups by the end of 2020, the total valuation for which is expected to be around $10 Bn. The programme is planned as a plethora of incubators and accelerators. The initiative is a step towards creating a tech-driven economy in Indonesia.

Image Source: https://www.brookings.edu/blog/the-avenue/2014/12/12/replacing-subsidies-with-investment-lessons-from-jakarta/

https://inc42.com/indonesia/indonesia-government-policies-tech/
Digitalisation
during the socialization of new policy on opening gate for foreign university to operate in Indonesia, President Jokowi has highlight the need for universities to open digital programs, even with streaming ‘online shop’

Jokowi: Kenapa Tidak Ada Fakultas Ekonomi Digital? Jurusannya Toko "Online"

IHSANUDDIN
Kompas.com - 23/10/2017, 23:03 WIB

The era of globalization and connectivity is changing the way of exchanging information, trading, and consumption of cultural and technological products from different parts of the world. The world becomes a very dynamic and complex place so that creativity and knowledge become an invaluable asset in competition and economic development. Creativity is also the basic phenomenon of the emergence of the concept of Creative Economy which is now also rife disseminated, together with entrepreneurship education in Indonesia society.
• The current state of information and communication technology (ICT), offers great potential to face challenges in HE, such as: limited capacity of universities; lack of adequate and qualified human resources in education, higher quality universities are still concentrated in Java; low quality of education services; and the low level of guarantees on the fulfillment of high quality education needs and demands.

• ICT provides opportunities for networked higher education and online learning. On this basis, SPADA Indonesia comes as one of the breakthroughs of the Directorate of Learning, the Directorate General of Learning and Student Affairs, the Ministry of Research Technology and Higher Education in improving the level of HE.

• With its online learning system, SPADA Indonesia provides opportunities for students from certain University to be able to attend some qualified courses from other universities and their learning outcomes can be recognized by the university where the student is enrolled.

• http://spada.ristekdikti.go.id/s/artikel/baca/spada_indonesia
INDONESIA Technology, digitalization, and connectivity

INDONESIA Technology, digitalization, and connectivity

• Open University Indonesia – 450k students
• 4 universities licensed for online undergraduate programs
• Blended learning up to 70%