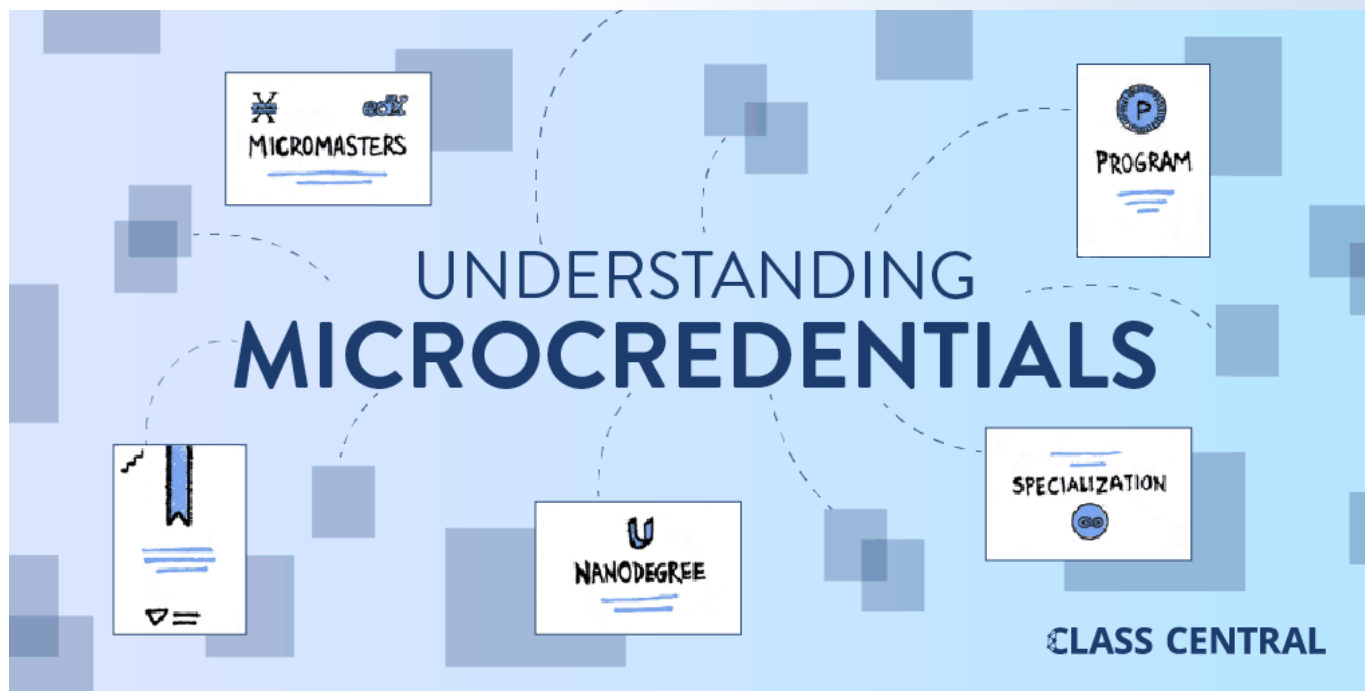# MOOCs, Micro Credential dan Digital Badges: Alternatif Gelar Akademik
(Disampaikan pada Knowledge Sharing Forum UT ke 6)
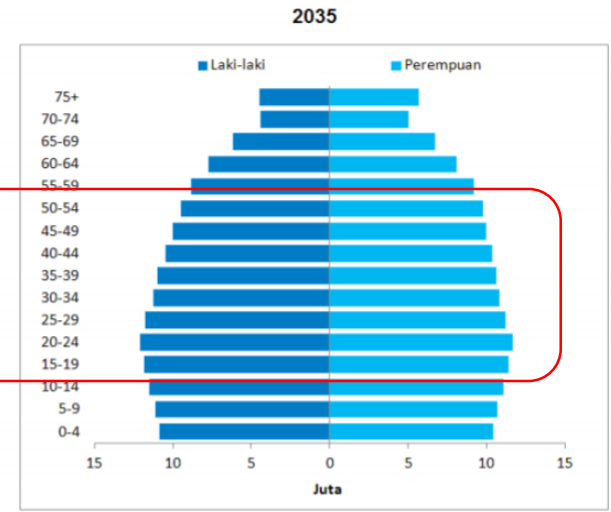
Daryono
Fakultas Hukum, Ilmu Sosial dan Ilmu Politik

CHALLENGES

DEMOGRAPHY	FLUID JOB MARKET	MISMATCH
BONUS DEMOGRAPHY	**PERUBAHAN LAPANGAN KERJA YANG CEPAT**	**PERGURUAN TINGGI – PEMERINTAH - INDUSTRI**

Proyeksi Piramida Penduduk Indonesia
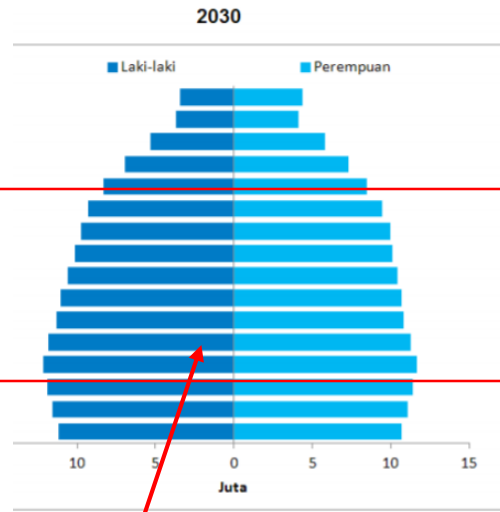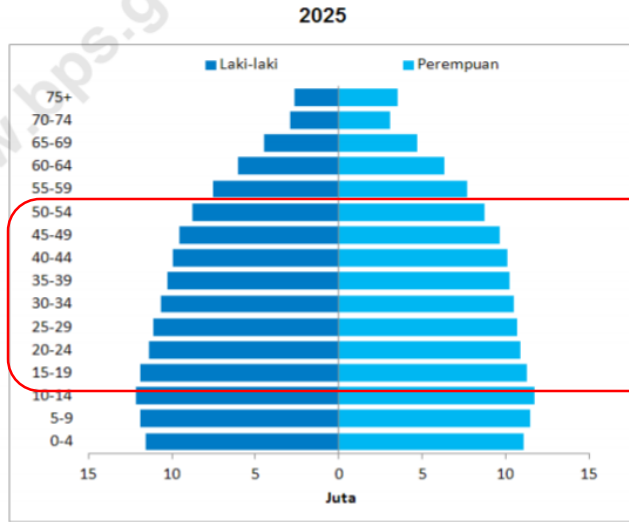
296 juta

314 juta

70% Usia Produktif = 207 Juta

Persepsi Kesulitan untuk Mendapatkan Kompetensi

a. Manufacturing firms

b. Noneducation service firms

- Working in Team
- Ethical Judgment and Decision making
- Oral and Written Communication skills.
- Critical and Analytical Thinking
- Innovative and creative
- Multicultural understanding
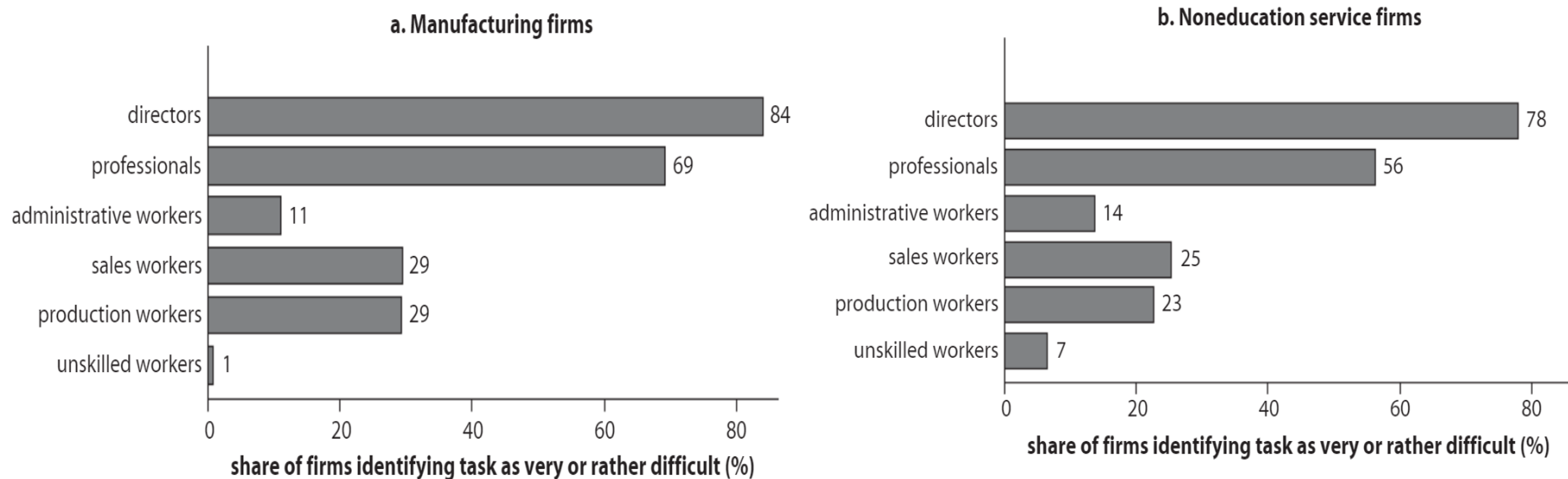
Employers give college graduates low scores for preparedness across learning outcomes; students think they are better prepared.
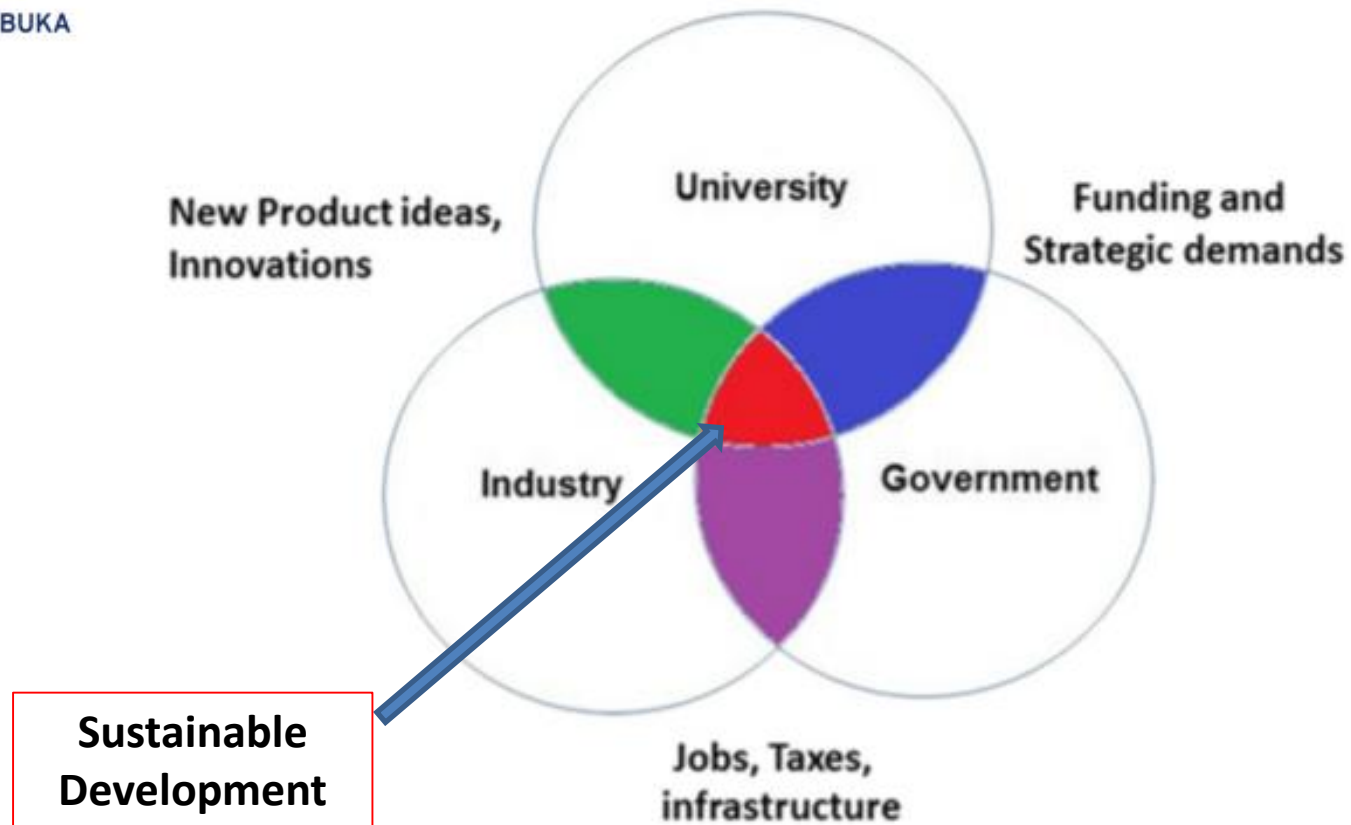
*Proportions saying they/recent college graduates are well prepared in each area**

Legend: ■ Employers ■ Students

Area	Employers	Students
Working with others in teams	37%	64%
Staying current on technologies	37%	46%
Ethical judgment and decisionmaking	30%	62%
Locating, organizing, evaluating information	29%	64%
Oral communication	28%	62%
Working with numbers/statistics	28%	55%
Written communication	27%	65%
Critical/analytical thinking	26%	66%
Being innovative/creative	25%	57%
Analyzing/solving complex problems	24%	59%
Applying knowledge/skills to real world	23%	59%
Awareness/experience of diverse cultures in US	21%	48%
Staying current on developments in science	21%	44%
Working with people from diff. backgrounds	18%	55%
Staying current on global developments	18%	43%
Proficient in other language	16%	34%
Awareness/experience of diverse cultures outside US	15%	42%

*8-10 ratings on zero-to-ten scale

Mismatch Tiga Unsur Utama

UNIVERSITAS TERBUKA

New Product ideas, Innovations

University

Funding and Strategic demands

Industry

Government

Sustainable Development

Jobs, Taxes, infrastructure
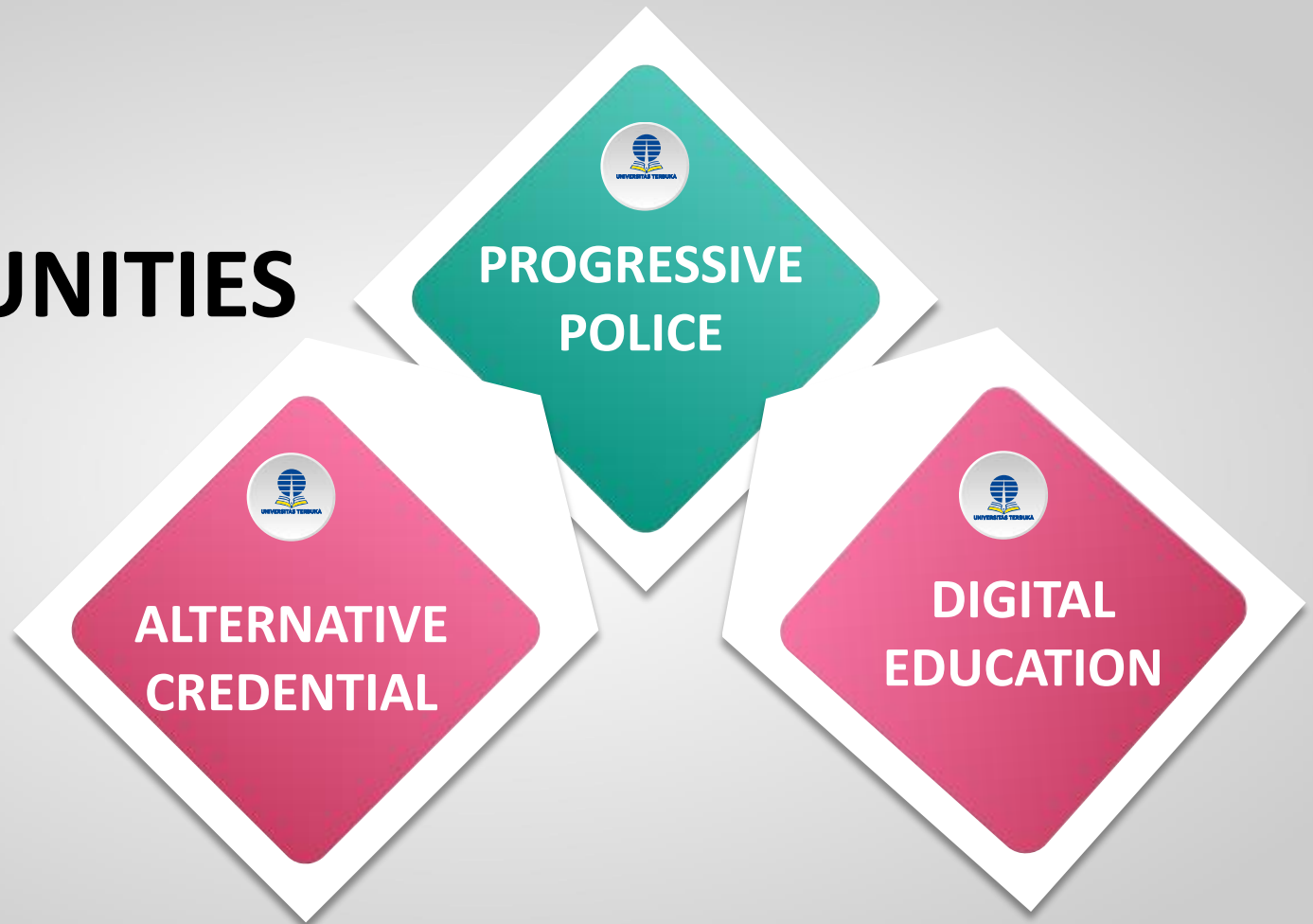
Pilar Visi Indonesia 2045

Pembangunan SDM dan Penguasaan Ilmu Pengetahuan dan Teknologi

Pembangunan Ekonomi Berkelanjutan

Pemerataan Pembangunan

Ketahanan Nasional dan Tata Kelola Kepemerintahan

Sumber: Bappenas

Kebijakan yang Progresif

Basis hukum kebijakan Merdeka Belajar: Kampus Merdeka

1 Pembukaan program studi baru

2 Sistem akreditasi perguruan tinggi

3 Perguruan Tinggi Negeri Badan Hukum

4 Hak belajar tiga semester di luar program studi

- Permendikbud No. 7 Tahun 2020 tentang Pendirian, Perubahan, Pembubaran Perguruan Tinggi Negeri, dan Pendirian, Perubahan, Pencabutan Izin Perguruan Tinggi Swasta
- Permendikbud No. 5 Tahun 2020 tentang Akreditasi Program Studi dan Perguruan Tinggi

Permendikbud No. 5 Tahun 2020 tentang Akreditasi Program Studi dan Perguruan Tinggi

- Permendikbud No. 4 Tahun 2020 tentang Perubahan Perguruan Tinggi Negeri menjadi Perguruan Tinggi Negeri Badan Hukum
- Permendikbud Nomor 6 Tahun 2020 tentang Penerimaan Mahasiswa Baru Program Sarjana pada Perguruan Tinggi Negeri

Permendikbud No. 3 Tahun 2020 tentang Standar Nasional Pendidikan Tinggi

Catatan: Seluruh peraturan yang melandasi kebijakan ini akan diunggah ke situs Kemendikbud.

Kementerian Pendidikan dan Kebudaya

UNIVERSITAS TERBUKA

1 **Contoh dan rekomendasi mitra yang dapat bekerjasama dengan Perguruan Tinggi dalam pendirian program studi baru**

| Kategori:		Contoh
i	**Perusahaan multinasional**	Perusahaan besar dunia yang masuk dalam daftar *Fortune 500* *(Contoh: Royal Dutch Shell, Nestlé, Toyota, dan lain-lain)*
ii	**Perusahaan teknologi global**	Perusahaan teknologi yang memilki **reputasi sangat baik** *(Contoh: Google, Apple, Amazon, Intel, Cisco Systems, dan lain-lain)*
iii	***Startup* teknologi**	Perusahaan *startup* yang telah mengumpulkan dana sebesar **minimum USD $50 juta** *(Contoh: Tokopedia, Traveloka, Gojek dan lain-lain)*
iv	**Organisasi multilateral**	Semua **organisasi multilateral** dan **nirlaba kelas dunia** *(Contoh: PBB, Bank Dunia, ADB, USAID, Gates Foundation, dan lain-lain)*
v	**BUMN dan BUMD**	**BUMN** berskala besar di tingkat nasional *(Contoh: PLN, BRI, Pertamina, dan lain-lain)* **BUMD** berskala besar di setiap provinsi *(Contoh: MRT, Bank BJB, Trans Jakarta, dan lain-lain)*

Massive Open Online Courses

MOOCS PROVIDERS

Growth of MOOCs
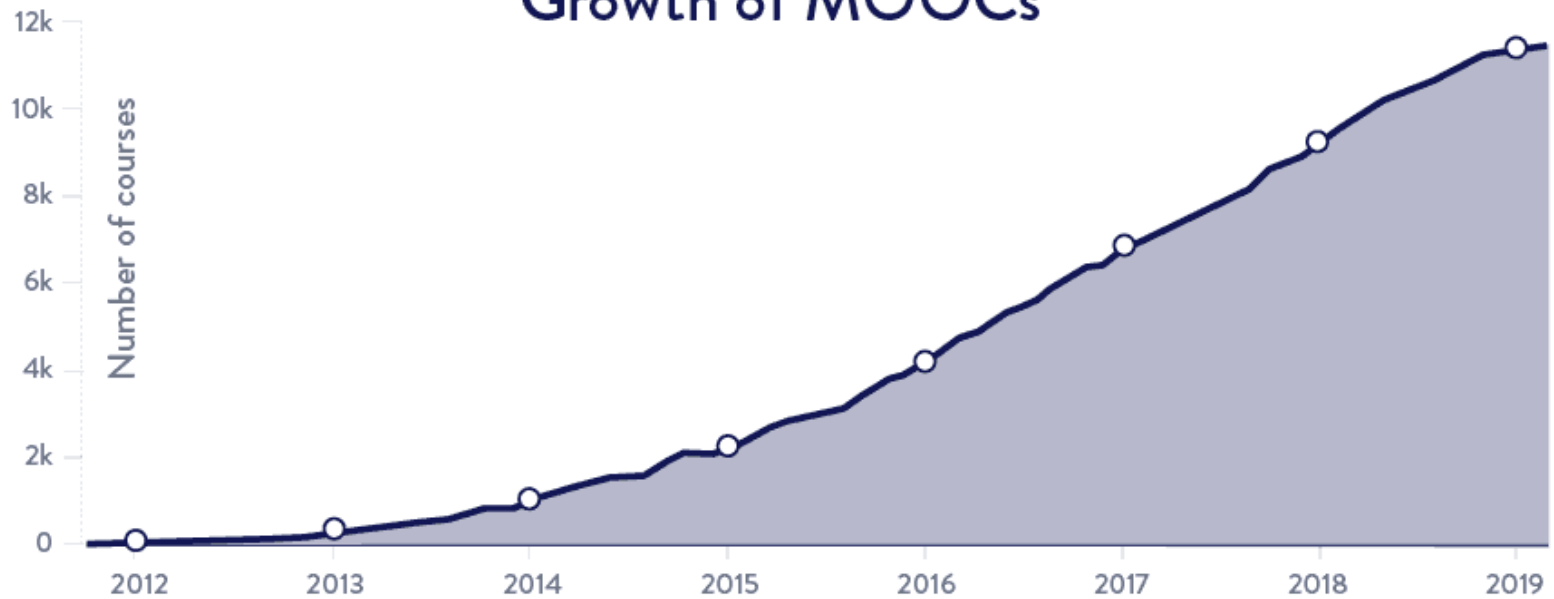
By the Numbers: MOOCs in 2018

UNIVERSITAS TERBUKA

CLASS CENTRAL

101M
Students

900+
Universities

11.4k
Courses

By the Numbers: MOOCs in 2018

UNIVERSITAS TERBUKA

CLASS CENTRAL

Course Distribution by Subject
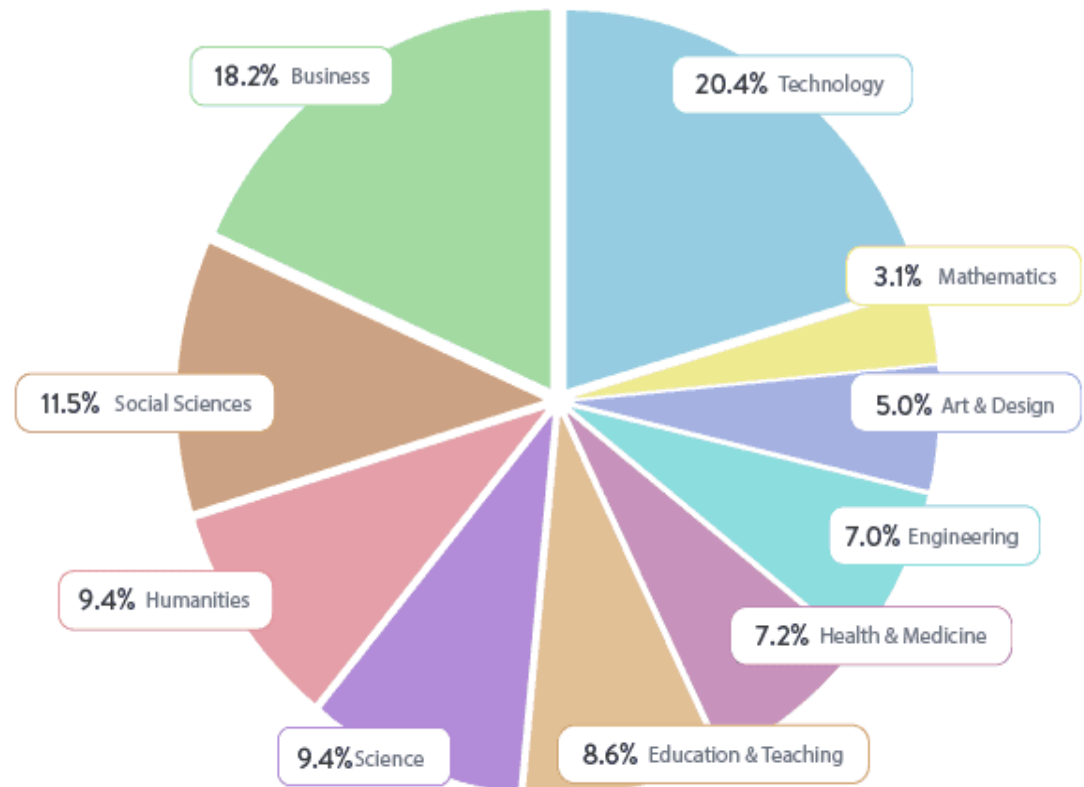
18.2% Business
20.4% Technology
3.1% Mathematics
5.0% Art & Design
7.0% Engineering
7.2% Health & Medicine
8.6% Education & Teaching
9.4% Science
9.4% Humanities
11.5% Social Sciences

By the Numbers: MOOCs in 2018

MOOCs Asian

EdX

OERU

MASSIVE OPEN ONLINE COURSE UNIVERSITAS AIRLANGGA

UT Moocs

Modern State

UDACITY

ICE Institute

IndonesiaX

ALIDSON

Class-central

e-Learning: Open for Knowledge Sharing

Udemy

Coursera

Future Learn

MASSIVE OPEN ONLINE COURSE UNIVERSITAS AIRLANGGA

Situs MOOC	Penyajian konten	Jumlah materi	Institusi pendukung	Estimasi kunjungan*
CodeSaya	Teks & Interaktif	4	Digital Ocean	67,300
FOCUS Fisipol UGM	Teks & Video	12	BCA	836
IndonesiaX	Teks & Video	15	edX, HarvardX, IDX, ITB, ITS, NET, Rumah Perubahan, UI, UNAIR, UNPAD, UT	141,200
MOOCs Univ. Terbuka	Teks & Video	7	–	45,200
Sibejoo	Video	82	–	17,100
UCEO Univ. Ciputra	Teks & Video	11	–	44,300

Micro Credential and Digital Badges

MICROCREDENTIAL

Certification obtained by mastering certain skills or competencies. Short and purposeful skills-based learning experiences.

DIGITAL CREDENTIAL

Credential issued and hosted digitally. Includes online diplomas, degrees, certifications, or licenses.

DIGITAL BADGE

Type of digital credential. Represents achievements of learning, skills, and/or competencies.

➤ Micro-credentials are mini-qualifications that demonstrate skills, knowledge, and/or experience in a given subject area or capability

➤ Micro-credentials can be awarded for soft and hard skills.

MOOC-based credentials

Credential	No. of credentials
Specializations by *Coursera*	257
Professional Education by *edX*	64
MicroMasters by *edX*	43
Professional Certificate by *edX*	35
XSeries by *edX*	32
Programs by *FutureLearn*	22
Nanodegrees by *Udacity*	22
Programs by *Kadenze*	21
Micro-degrees by *XuetangX*	8

Micro credentials on the Market Today

Platform	Microcredentials
Coursera	Specialization, MasterTrack Certificate, Professional Certificate
edX	XSeries, MicroMasters, Professional Certificate
Udacity	Nanodegree
FutureLearn	Program, Graduate Certificate, Graduate Diploma
Kadenze	Program

iMBA Enrollments

	Free	Certificates	College Credit	Degree
# of Students	1.2M	49k	150	800
Cost	$0	$50	$1k	$22k

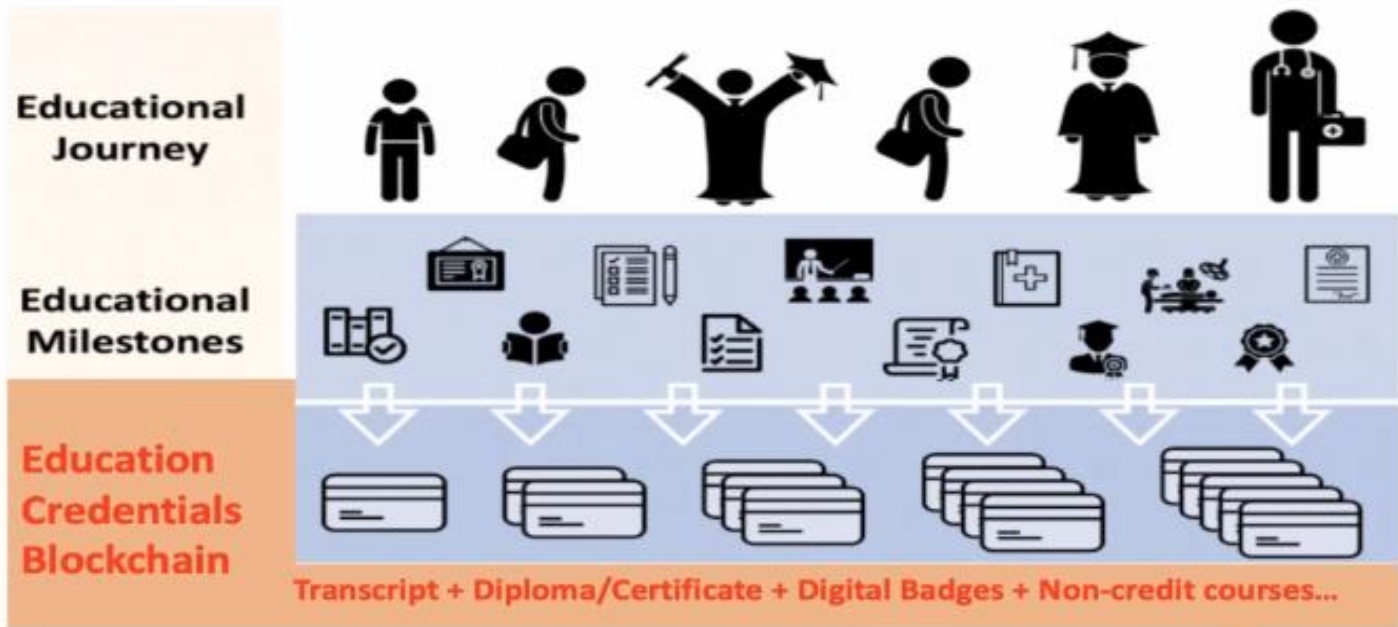https://www.classcentral.com/report/six-tiers-mooc-monetization/

Career Development and Lifelong Learning

https://careers.rutgers.edu/students-alumni/discover-yourself/make-it-happen/embrace-your-career-journey

STUDENT ACADEMIC JOURNEY
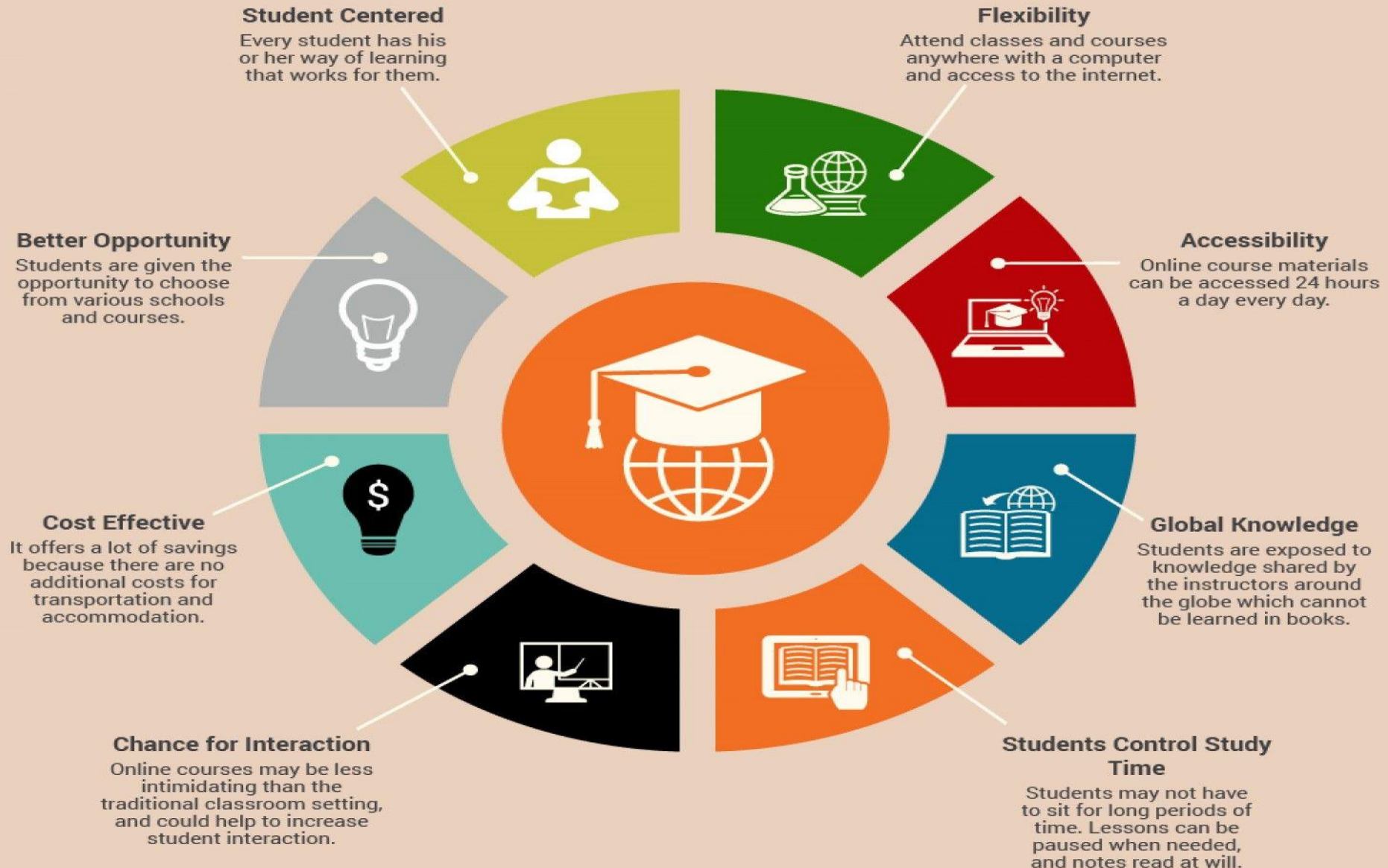

Adapted from Athena Global Technologies

Modern Digital Credentials

Digital Badges must be:

- Learner-controlled

- Verifiable

- Shareable and discoverable

- Interoperable

BENEFITS OF ONLINE EDUCATION

Student Centered
Every student has his or her way of learning that works for them.

Flexibility
Attend classes and courses anywhere with a computer and access to the internet.

Better Opportunity
Students are given the opportunity to choose from various schools and courses.

Accessibility
Online course materials can be accessed 24 hours a day every day.

Cost Effective
It offers a lot of savings because there are no additional costs for transportation and accommodation.

Global Knowledge
Students are exposed to knowledge shared by the instructors around the globe which cannot be learned in books.

Chance for Interaction
Online courses may be less intimidating than the traditional classroom setting, and could help to increase student interaction.

Students Control Study Time
Students may not have to sit for long periods of time. Lessons can be paused when needed, and notes read at will.

PENTINGNYA ALTERNATIF GELAR AKADEMIK

- Overcoming Resource Constrains: Increasing Enrollment, Ever-changing Job Market, Reducing Mismatch.

- Increased Flexibility (micro credential (Do It Yourself), Self-Paced Learning, Stackable and Modularity Competencies)

- Digital Credential: Increased visibility, security, Integrity and transferability

Reference Picture

- Slide 5 https://www.insidehighered.com/news/2015/01/20/study-finds-big-gaps-between-student-and-employer-perceptions

- Slide 13, 14, 15 Indonesia Governance Index http://www.kemitraan.or.id/igi/index.php/province-performance?id=233&prov_id=5

- Slide no 17 https://www.bps.go.id/publication/

- Slide 20 https://www.classcentral.com/report/moocs-microcredentials-analysis-2018/

- Slide No 32 Online Learning

  https://id.pinterest.com/pin/613615517952975384/