

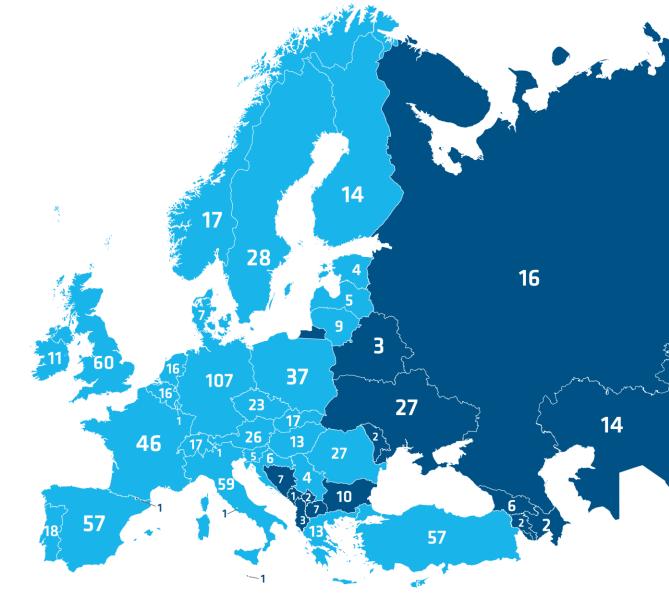
DIGITALLY-ENHANCED LEARNING AND TEACHING AT EUROPEAN HIGHER EDUCATION INSTITUTIONS

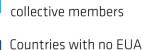
Thérèse Zhang European University Association ASEM SOM1 Malta, 22-23 May 2023

european University Association



- 870+ members in 48 countries
- Voice of universities at European level
- Facilitates dialogue and collaboration on higher education and research policy & practice
- Support its members with a range of services





collective members

Countries with EUA



- **Evidence and good practice sharing**
- **Advocacy work**
- Peer-learning and community building



2024 European Learning & Teaching Forum

February 2023

08 - 09 FEB 2024 | CONFERENCE **Q** RUHR-UNIVERSITÄT BOCHUM | BOCHUM, GERMANY

POSITION



Artificial intelligence tools and

their responsible use in higher

education learning and teaching



SURVEY REPORT DIGITALLY ENHANCED LEARNING AND TEACH IN EUROPEAN HIGHER CATION INSTITUTION

DIGIHE

lichael Gaebel, Thérèse Zhang, Henriette Sto nd Alison Morrisroe

inuary 2021

in the European Higher **Education** Area By Michael Gaebel & Thérèse Zhang

Learning and teaching

#EUALearnTeach work in progress over a box of 🚺 chocolates: room 262 reflect on recommendations on digital competences of teachers: DC as part of an integrated innovation vision In an integrated, institutional environment 🙅 As a specific part of teaching

TRENDS 2018



DIGIHE Supporting European universities in their strategic approaches to digital education

- January 2020 April 2023
- Objectives:
 - Strengthening strategic approaches for digitally enhanced learning & teaching (DELT) at European HEIs
 - Encouraging self-reflection and capacity building

• The project provided:

- <u>Comparative data on the state of play of digitally</u> <u>enhanced learning and teaching</u> at European HEIs;
- <u>A review of self-assessment instruments</u> for improving the institutional digital ecosystem;
- The organisation of two cycles of <u>thematic peer</u> groups;
- <u>A workshop series on self-assessment instruments</u> and a self-paced <u>training resource</u> (MOOC on FutureLearn).













Increased acceptance/more strategic approaches to e-learning	87%
Boosted education provision through e-learning	74%
Blended learning used in regular teaching	36% fully 51% to some extent

Digital learning: Even before the pandemic...

Trends 2018. Q25, Q29

DIGIHE

Responses per country

16

25

3

SURVEY REPORT DIGITALLY ENHANCED LEARNING AND TEACHING IN EUROPEAN HIGHER EDUCATION INSTITUTIONS

Michael Gaebel, Thérèse Zhang, Henriette Stoeber and Alison Morrisroe

January 2021

- Survey to institutional leadership
- Data collection: April to June 2020
- Pre-Covid 19 situation
- 368 responses mainly universities
- 48 European countries
- Longitudinal data 2014 E-learning study, Trends reports (2015 and 2018)

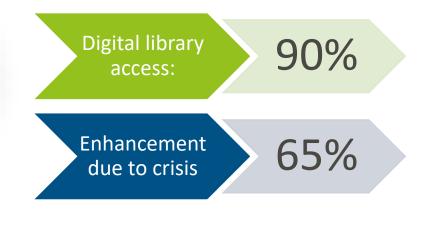
DIGIHE

Shift towards more institutionalised approaches

- 70% Digital learning as a strategic priority
- 88% Institutional strategies (2014: 63%)
- Support & coordination becomes centralised & shared across the institution
- Internal quality assurance 53% (2014: 23%)
 - but 41%: "under discussion"
- Infrastructure & support but not for all students & staff



- Northern Europe 11%
- Western Europe 10%
- Southern Europe 9%
- Eastern Europe/Central Asia 11%
- Eastern EU 15%
- Balkans 10%



Responsibility for digital learning support & coordination is	2014	2020
shared between central and faculty based units	40%	48%
Central unit	35%	45%
Faculty or department level only	12%	7%

DIGI

Impact and purpose

Top 3 impacts		Internationalisation	Past 5 years	Next 5 years	80%
89%	 innovates teaching 	Transforms inter- institutional collaboration	64%	86%	 It brings benefits to the student experience
75%	 flexible provision 	Outreach to international	57%	85%	
35%	 data on student learning 	students Virtual mobility	25%	75%	73% • Students have a positive attitude towards it

DIGIHE

Is external QA a barrier?

Spain

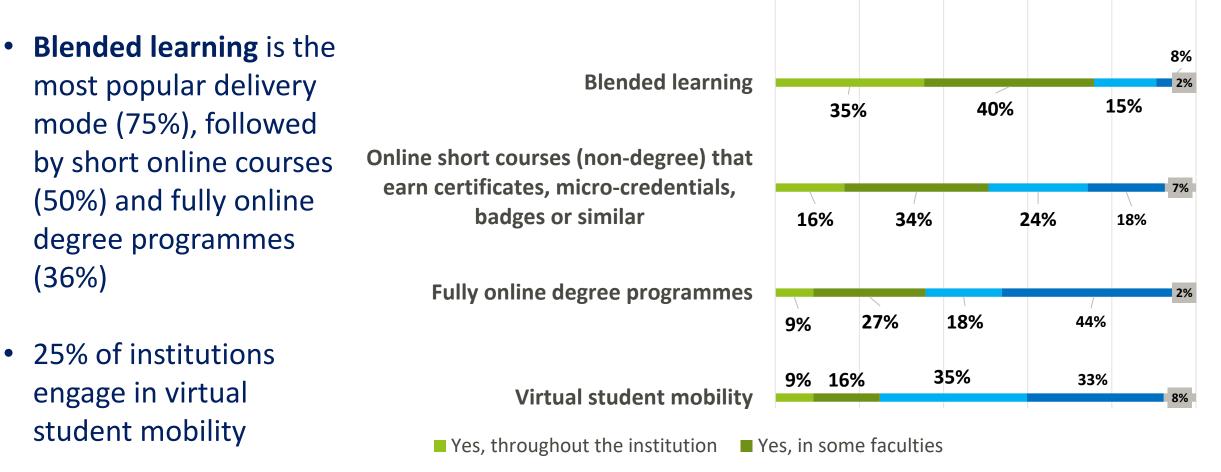
31%

EHEA

11%

	Top 3 barriers		Top 3 enablers	Top 3 Measures to move ahead	
	•	Lack of staff resources (51%)	 Proactive participation of staff and students (74%) 	• Peer exchange within the institution	
	•	Lack of external funding opportunities (40%)	 Professional development and training (59%) 	 National or international training opportunities 	
rier?	•	Difficulty to devise a concerted approach for the entire institution (36%)	 The institution's strategy (43%) 	 Collection and analysis of institutional data 	
Albania 60%	•	Lack of staff motivation (34%)	 Major investments in equipment and infrastructure (39%) 	 Exchanges & collaboration organised by the rectors' conference/ university networks 	

Delivery modes



Not yet, but we are planning to No

■ I do not know/ not applicable

DIGIHE

(36%)

DIGIHE Uptake accelerated by the pandemic

Source: DIGI HE survey, 2020

Changes due to Covid-19 Increased use of virtual staff meetings Exploring new tools for communication and collaboration Exploring new ways of teaching Plans for enhancing digital capacity 75% in the future beyond the crisis Enhancing online library use 65% Plans for updating the institution's policies on remote work 62%

95%

92%

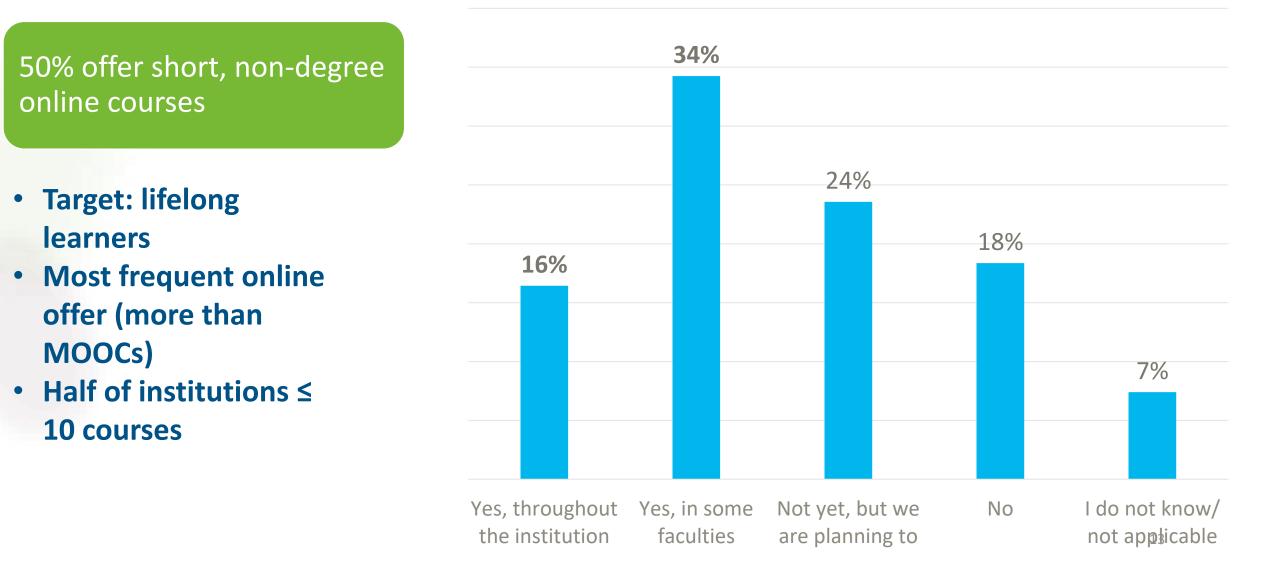
92%

DIGIHE



Lifelong Learning - developments and perceptions 81% widening **65%** access through digitalisation is mature and growing adult students a strategic demand for are the main development **49%** short courses target of online priority reach out to learning 48% new learner 65% blended • digitalisation groups - one of 53% online • has contributed the main 44% on campus ۲ to major motivations for transformation offering in widening MOOCs access

DIGIHE Short online courses (non-degree) that earn certificates, micro-credentials or badges



Government

- fast response to changing learning needs/skills needs
- flexible and inclusive learning paths
- high quality provision
- diversity of providers
- regulatory power
- Costs?

EU: A European approach for micro-credentials

- DG EAC & DG Employment: flexible, skills for a changing society & economy
- Work Programme 21 / European Education
 Area / Digital Action Plan
- Non-legislative initiative on 'European approach for micro-credentials'

HEI

- a way to provide targeted and specialised training
- increase their visibility and reputation
- Response to students, alumni,, labour markets' demands
- experiment with new pedagogies and technologies
- Coordinated initiatives among HEI

What are the benefits of micro-credentials?

2020 Rome Communiqué of the Bologna Process: "explore how and to what extent these **smaller, flexible units, including those leading to microcredentials**, can be defined, developed, implemented and recognised by our institutions using EHEA tools."

Employers' perspective

- specific skills of prospective/ actual employees
- may serve as on-job training
- high quality at low cost

Learners' perspective

- Fast, focussed and flexible learning
- Upgrade, specialisation, reorientation
- Entry/ part of a degree programme



Open issues and concerns

- How fit existing frameworks are
 - ✓ Quality assurance and recognition
 - ✓ e.g. a lot of policies relating to open, digital learning when the pandemic hit
- Still looking for ways to address academic integrity, ethics, security and privacy policies in new contexts
 - ✓ Data security and protection, data ownership, risks of algorithms, AI
 - ✓ Need for action at institutional, national, European level

Embedding digitally enhanced learning in policies and measures SURVEY REPORT Digitally enhanced learning and teaching in European higher education institutions

	Data protection	52%	33%	11%
Detection and preve	ention of plagiarism	51%	34%	11%
	Cyber security	42%	37%	14%
	Ethics and integrity	38%	34%	18%
lr	itellectual property	35%	37%	19%
Examination and testing (identification, verification etc.)		32%	37%	25%
Yes	Under development	l do	not know	
Yes, but to be improved	No			



n=366

Q11: Is digitally enhanced learning taken into account in your policies and measures for: (please select one option for each item)



Open issues and concerns (2)

- Finding a common definition across the institution (or nationally) on key modes can be difficult: what does « blended », « hybrid », etc., mean and entail
- Digital skills and competences // overall question of training for teaching
- Staff resistance and motivation should not be underestimated: participation to decision-making, « teaching fatigue » following the pandemic:
 - Institutional approaches vs academic, teaching freedom
 - Teaching still very seen as an individual, borderline private activity



Gradual transformation over the past years

- Higher acceptance, more mainstreamed practice, gradual exploration and capacity building
- "It is not (only) about technology; it's about pedagogy"

Outlook

2020-2021 pivotal for online and blended education

- Sustainable changes beyond emergency provision?
- From "blended" to a more comprehensive approach (hybrid, hi-flex)?
- How would this change HEIs and their cooperation with other HEIs and other parties? More shared and networked approaches? Capacities to be improved?



The lifelong learning mission

- Short, non-degree, more flexible
- Is all/any learning « lifelong »? How does digitallyenhancement learning contribute to this?
- Standard? Risk of overregulation vs open and productive approach to respond to learning needs and skills demand?

Implications for learning and teaching // for the institutional model, mission and values

- Institutional and academic sovereignty and autonomy
- Higher education as a public responsibility
- Recognition of the university as social and cultural place

Outlook (2)



Thank you for your attention

@euatweets @therese_zhang



MICRO-CREDENTIALS FOR LIFELONG LEARNING AND INTERNATIONALISATION

Recent Developments in Europe and Germany

David Akrami Flores, Head of Section EU04 German Academic Exchange Service (DAAD)

> Erasmus+ Enriching lives, opening minds.

Higher education





Federal Ministry of Education and Research

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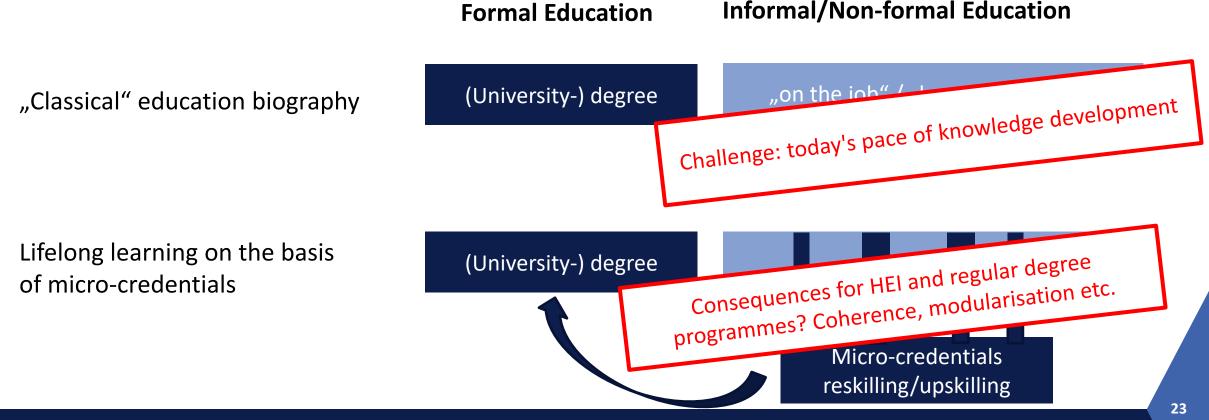
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- I. Background
- II. Survey Results: Micro-credentials at German HEI
- **III.** Case Study: Micro-credentials in Internationalisation

Micro-credentials: Context – "Skills Gap"

European Commission: Achieving the European Education Area by 2025

"A growing number of adults, with or without a higher education degree, will need to reskill and upskill through more flexible alternatives than a full degree in order to overcome the gap between the learning outcomes of their initial formal qualifications and emerging skills needs in the labour market."



Micro-credentials: Developments at European Level

European Skills Agenda, 1.7.2020

European Education Area, 30.9.2020

Digital Education Action Plan, 30.9.2020

EHEA Rome Ministerial Communiqué, 19.11.2020

"We ask the BFUG to explore how and to what extent these smaller, flexible units, including those leading to micro-credentials, can be defined, developed, implemented and recognised by our institutions using EHEA tools."

EU Council Recommendation "European Approach to Micro-credentials", 16.06.2022

Micro-credentials: EU Council Recommendation Definition and Characteristics

Definition

",'Micro-credential' means the record of the learning outcomes that a learner has acquired following a small volume of learning. These learning outcomes will have been assessed against transparent and clearly defined criteria. Learning experiences leading to micro-credentials are designed to provide the learner with specific knowledge, skills and competences that respond to societal, personal, cultural or labour market needs. Microcredentials are owned by the learner, can be shared and are portable. They may be stand-alone or combined into larger credentials. They are underpinned by quality assurance following agreed standards in the relevant sector or area of activity."

Standard elements

- Learning outcomes
- Workload
 (in ECTS credits)
- Level
 (NQF, EQF, QF-EHEA)
- Type of assessment
- Type of quality assurance

Principles

- Quality
- Transparency
- Learning pathways
- Recognition
- Learner-centered

Micro-credential ecosystem

- Micro-credentials in formal learning environments
- Micro-credentials in non-formal and informal learning environments
- Quality and transparency
- Partership between involved actors

European Approach for Micro-credentials - Roadmap

• • • • 2020 •

• 2021

. . . . 2(

2022 • • •

2023

2024

Common definition and **EU standard** in this report as a starting point for further consultations. Wide **consultations** among the education and training community and labour market actors, involving all Member States and EHEA countries. Commission proposal for a Council Recommendation on micro-credentials for lifelong learning and employability.

Adoption by the Council of Ministers of the Council Recommendation on micro-credentials for lifelong learning and employability, incl. common definition and EU standard. Establish the appropriate follow-up structure for microcredentials within the Bologna Process working structures. Definition and key features / standards for micro-credentials to be adopted within the EHEA, together with the 2024 Communiqué of the Bologna Process Ministerial Conference.

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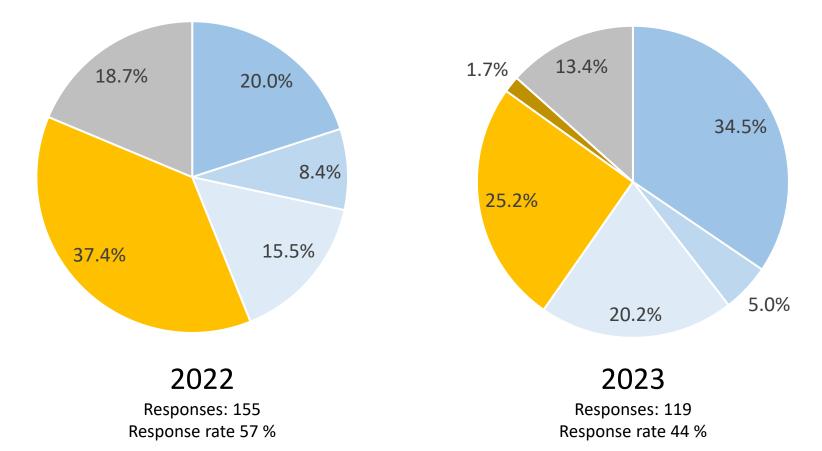
I. Background

II. Survey Results: Micro-credentials at German HEI

III. Case Study: Micro-credentials in Internationalisation

Survey – Micro-credentials at German Higher Education Institutions Comparison 2022 / 2023

Does your university offer micro-credentials?



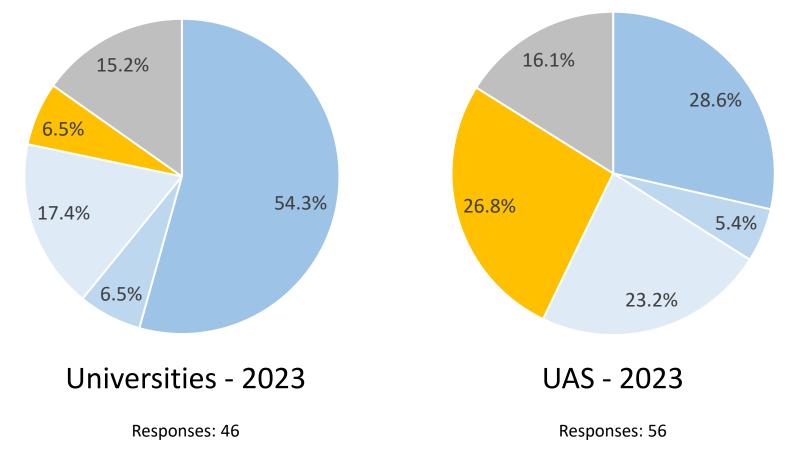
Yes

- No, but there are already plans to introduce micro-credentials
- No, but micro-credentials are a major topic of discussion
- No, micro-credentials are not a major topic of discussion at the moment
- No; without further specification

Don't know/no answer

Survey – Micro-credentials at German Higher Education Institutions Comparison: Universities / Universities of Applied Sciences (2023)

Does your university offer micro-credentials?

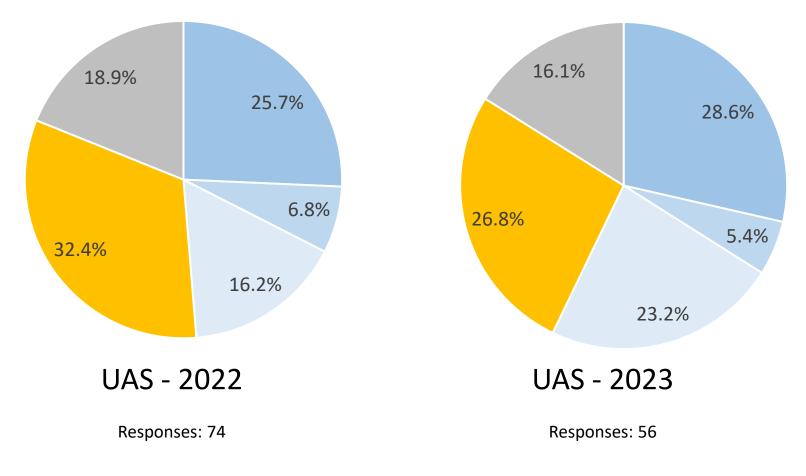




- No, but there are already plans to introduce micro-credentials
- No, but micro-credentials are a major topic of discussion
- No, micro-credentials are not a major topic of discussion at the moment
- Don't know/no answer

Survey – Micro-credentials at German Higher Education Institutions Comparison UAS 2022 /2023

Does your university offer micro-credentials?



Yes

- No, but there are already plans to introduce micro-credentials
- No, but micro-credentials are a major topic of discussion
- No, micro-credentials are not a major topic of discussion at the moment
- Don't know/no answer

Survey – Micro-credentials at German Higher Education Institutions Comparison Universities 2022 / 2023

Yes

No, but there are already plans to

No, but micro-credentials are a major

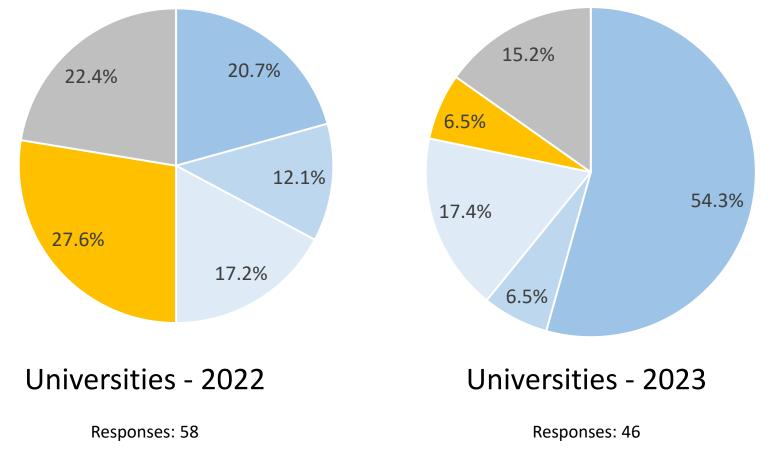
No, micro-credentials are not a major topic of discussion at the moment

introduce micro-credentials

topic of discussion

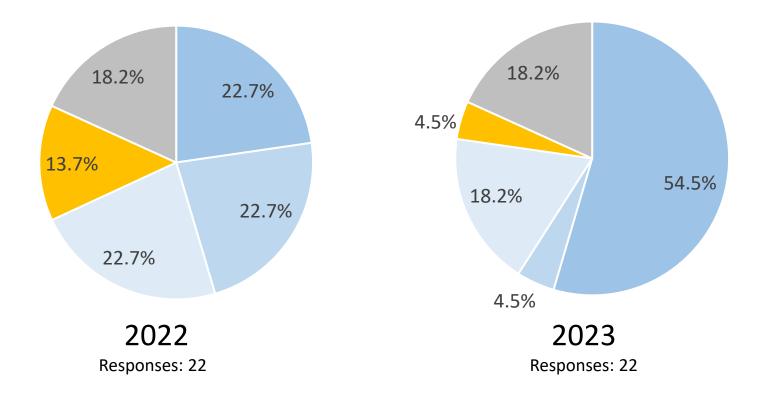
Don't know/no answer

Does your university offer micro-credentials?



Survey – Micro-credentials at German Higher Education Institutions Comparison: German HEI in European University Alliances 2022 / 2023

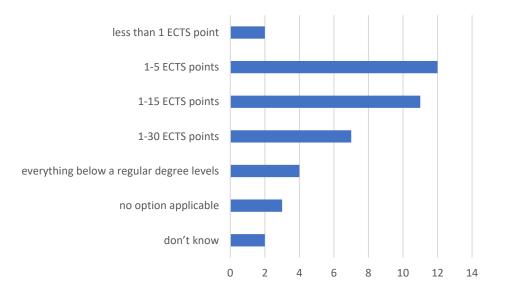
Does your university offer micro-credentials?



- Yes
- No, but there are already plans to introduce microcredentials
- No, but micro-credentials are a major topic of discussion
- No, micro-credentials are not a major topic of discussion at the moment
- Don't know/no answer

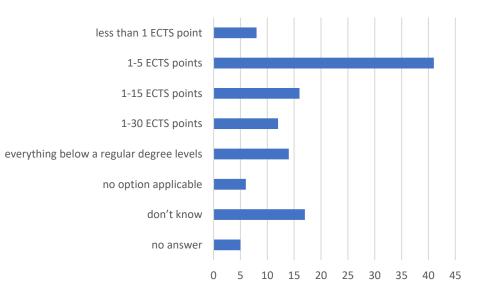
Survey – Micro-credentials at German Higher Education Institutions Workload

What is the range of your university's micro-credential offerings?



Response group: HEI which offer MC, (no multiple answers)

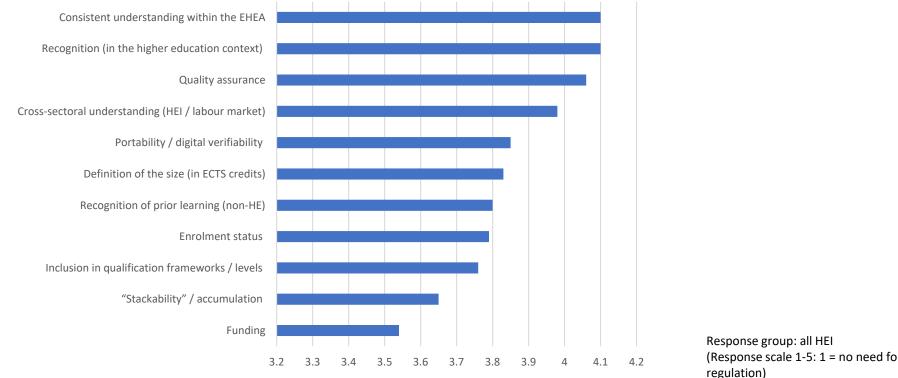
To what size should the term "microcredentials" refer to?



Response group: all HEI (no multiple answers)

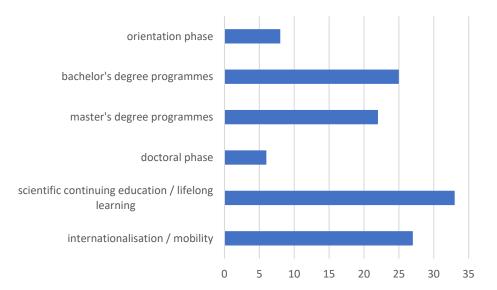
Survey – Micro-credentials at German Higher Education Institutions Regulation

Please assess the need for regulation of micro-credentials in the areas mentioned.

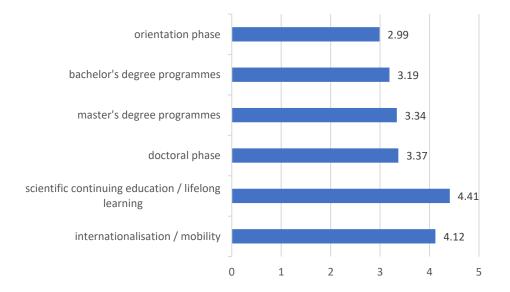


Survey – Micro-credentials at German Higher Education Institutions Fields of application

In which context micro-credentials are offered?



How are you evaluating the use of microcredentials in the following areas?



Response group: all HEI Response scale 1-5: 1 = not useful at all 5 = very useful)

Response group: HEI which offer MC (Multiple answers were possible))

Survey – Micro-credentials at German Higher Education Institutions Internationalisation

Do you consider micro-credentials - in general - to be a useful accompanying instrument for internationalization or the promotion of mobility?

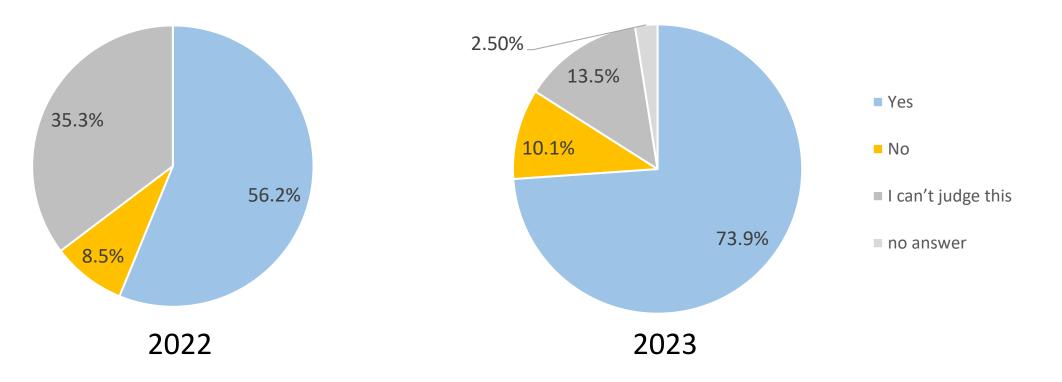


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- **II.** Short Survey: Micro-credentials at German Higher Education Institutions
- III. Case Study: Micro-credentials in Internationalisation

Example: DAAD-funded Project "Digital Mobil @ HSBI"



All Icons by Hreepik from www.tiaticon.com



Hochschule Bielefeld University of Applied Sciences and Arts

Example: DAAD-funded Project "Digital Mobil @ HSBI"

Outgoing offer



- More than 100 courses at
 - 2 partner universities
- Transcript of Records
- Recognition of credits
- Refund of fees (USA)

Incoming offer



- About 10 courses per semester
- No fees
- Tutorials and personal

onboarding support

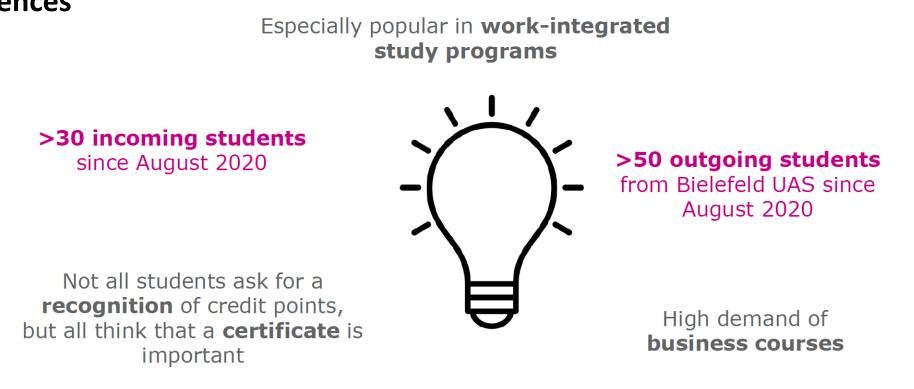
Transcript of Records



Hochschule Bielefeld University of Applied Sciences and Arts

Example: DAAD-funded Project "Digital Mobil @ HSBI"

Experiences



Some partner universities were **not able** to offer courses

Hochschule

University of Applied Sciences

Bielefeld

and Arts

H'S'Bi

40

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Enriching lives, opening minds.

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DAAD – Deutscher Akademischer Austauschdienst German Academic Exchange Service (DAAD) Kennedyallee 50 | 53175 Bonn www.daad.de

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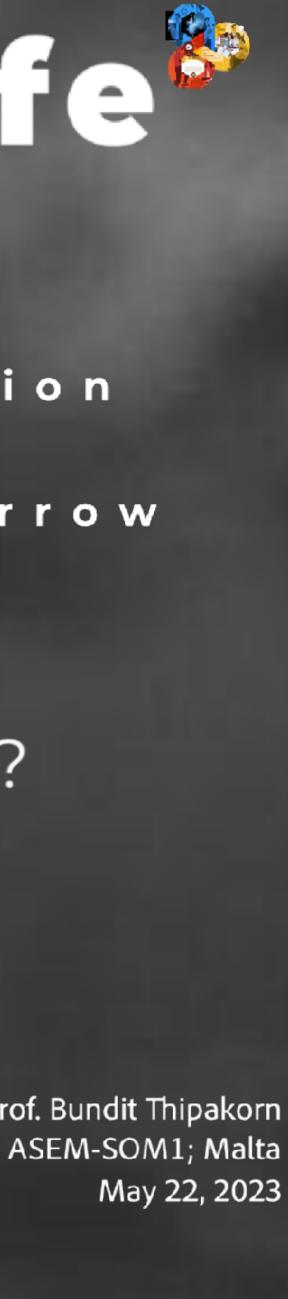
Federal Ministry of Education and Research

KMUTT4LIfe

The Higher Education Framework to Lead Learning for Tomorrow

Can KMUTT Lead Learning for Tomorrow ?

Assoc. Prof. Bundit Thipakorn



"How can we, King Mongkut's University of Technology Thonburi; KMUTT, provide selfinitiated education for workforces to learn throughout their multi-stage life"

SRUPT

Million I

ISAUPTING

Time for NEW labour market needs

DISRUPTING labour marke

CONTINUOUS DISRUPTIONS



NEW

JOBS

TRANSFORMING WORLD

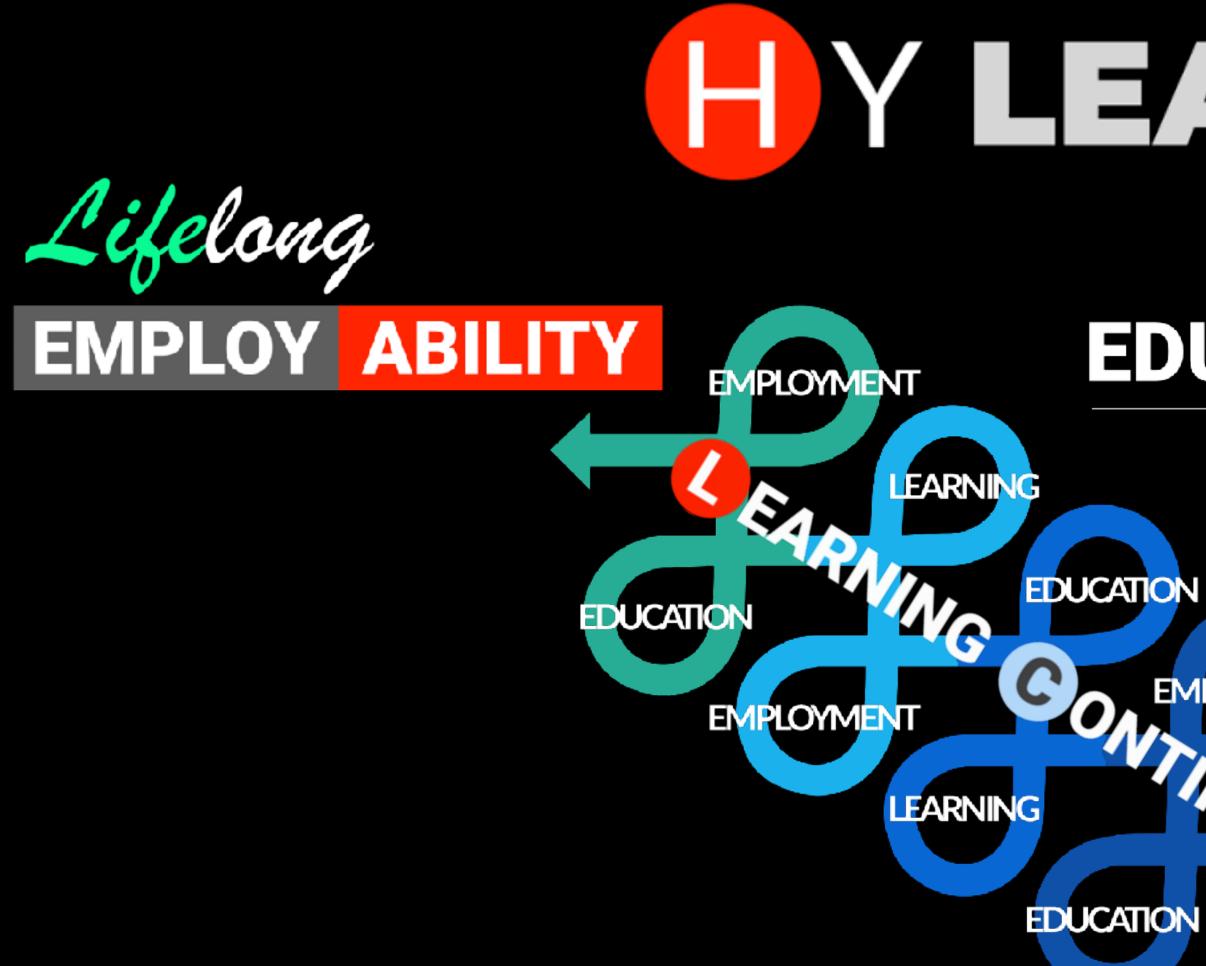
DISBUPTING

NEW NORM

OBS and ROLES

DISRUPTING





Learning is automatic, i.e. we see things, we observe them and then learn something new through our experiences in our day to day life. So, it is a continuous process and also a life long one. Learning can be intentional or unintentional, conscious or unconscious, for better or for worse.

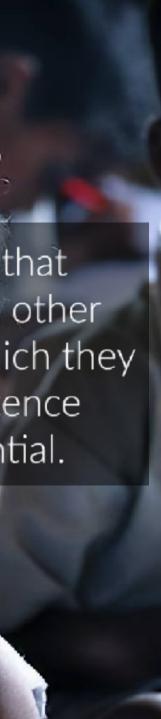
HY LEARNING

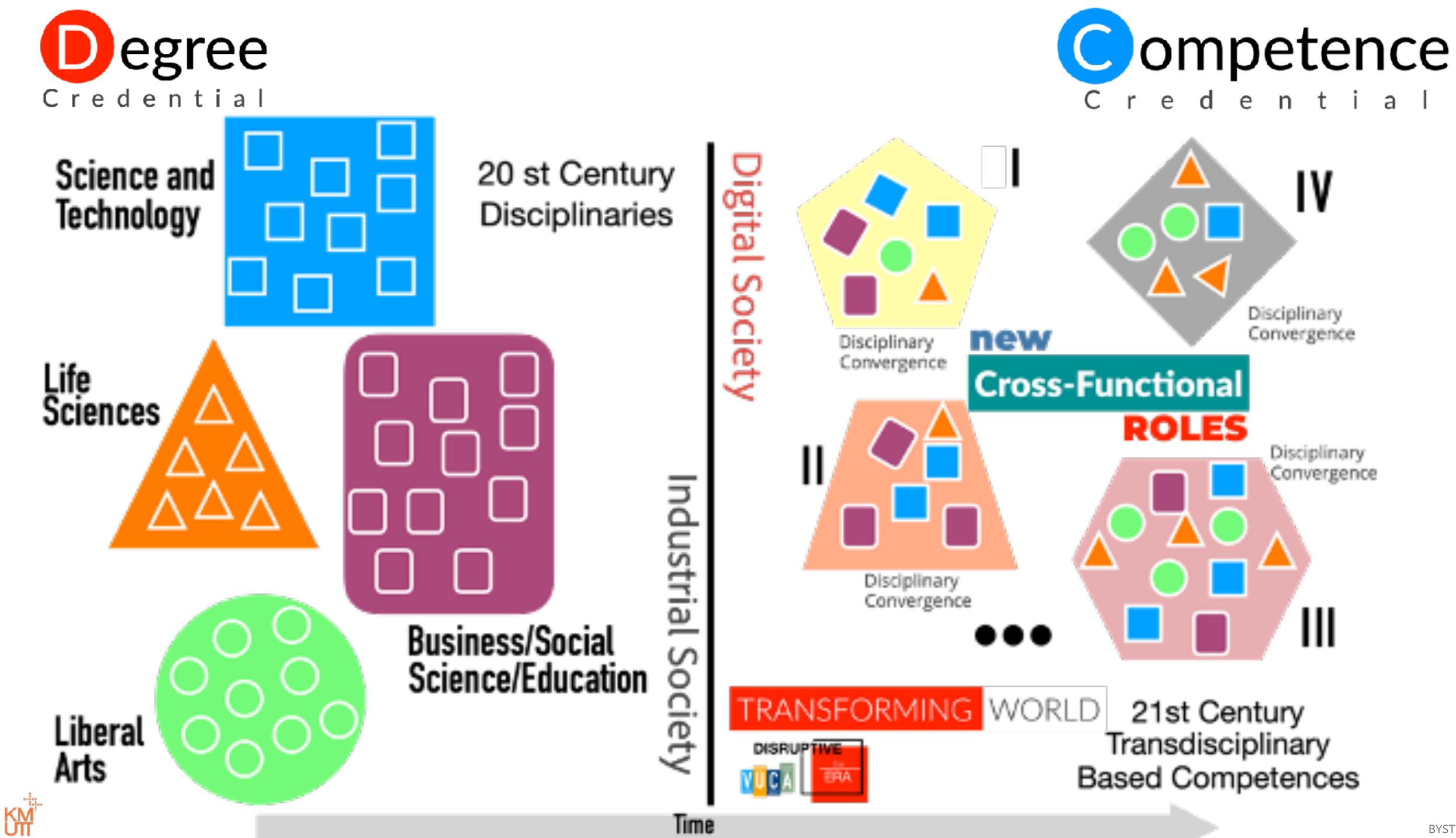
EDUCATION is never-END

EMPLOYMENT

MUUN

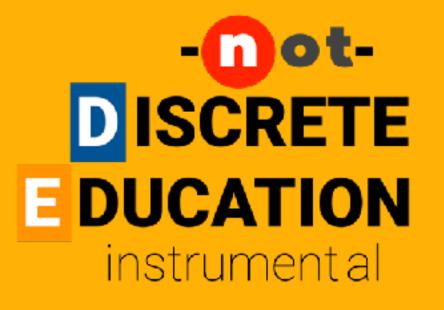
Education refers to a formal conservative process that helps in the development of abilities, attitudes and other behavioural practical values in the society from which they belong, for the purpose of obtaining social competence and optimum development of an individual's potential.













A cademic credential

Coherent
LEARNING
PROGRESSIONS

Coherent LEARNING PROGRESSIONS



Credential

Coherent
LEARNING
PROGRESSIONS



Age - Agnostic













The core functions of a curriculum will likely become the transmission and appropriation of transferable skills and competences that can be widely used and applied.

Age - Agnostic

Transforming

KNOWLEDGE

cont

KM

CAREER



VERSATILIST

- Multiple Deep Skills
- Wide Scope of Roles
- Broad Experience
- Recognised in Other Domains

CONSTRUCTING COMPETENCE

moving or

ACCOUNTABLITY

COMPET

ACHIEVEMENT

Ompetence Credentials Verified Certificate CREDIBILITY







MICROCRED

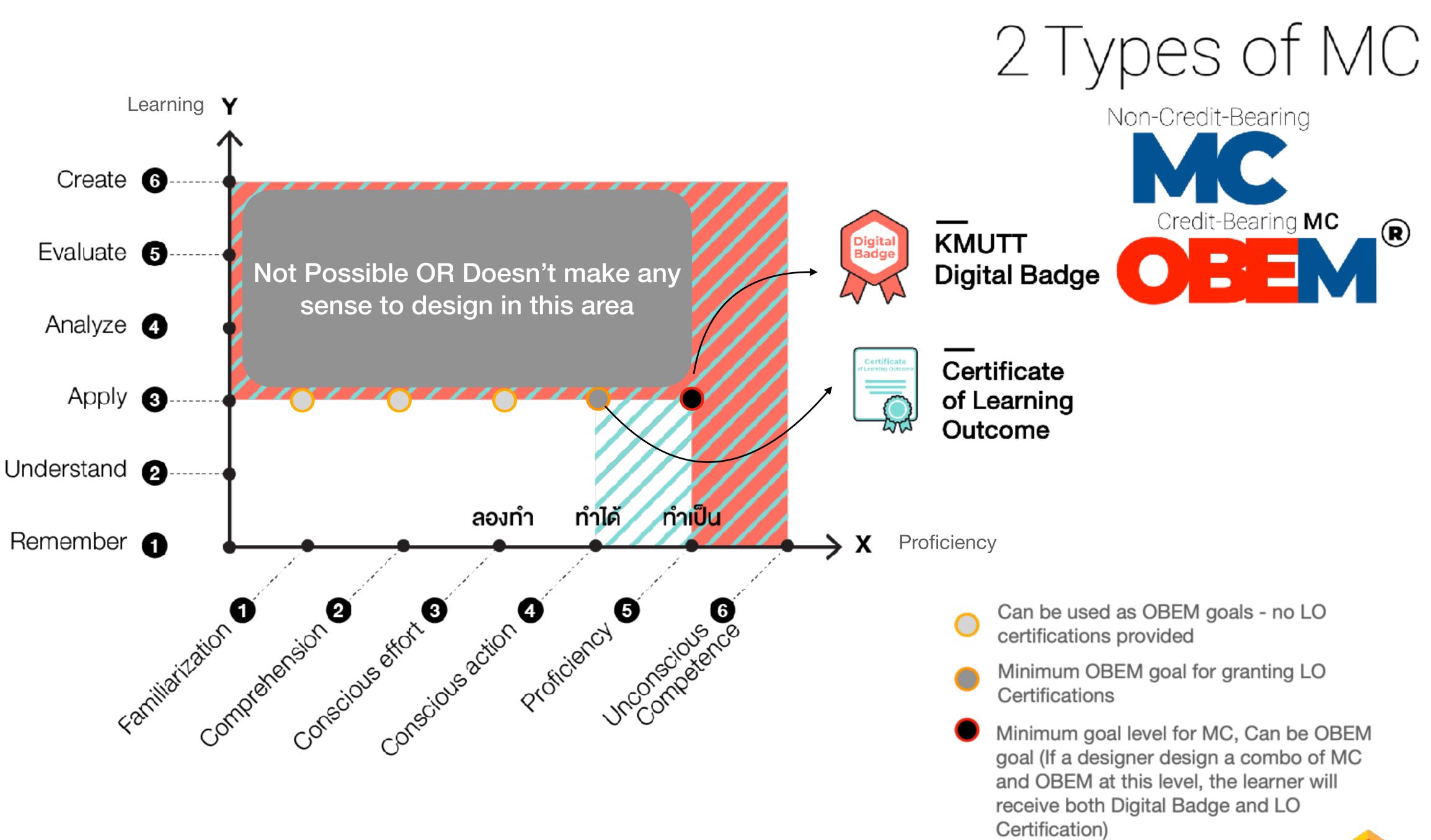


4LIFELONGLEARNING KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI

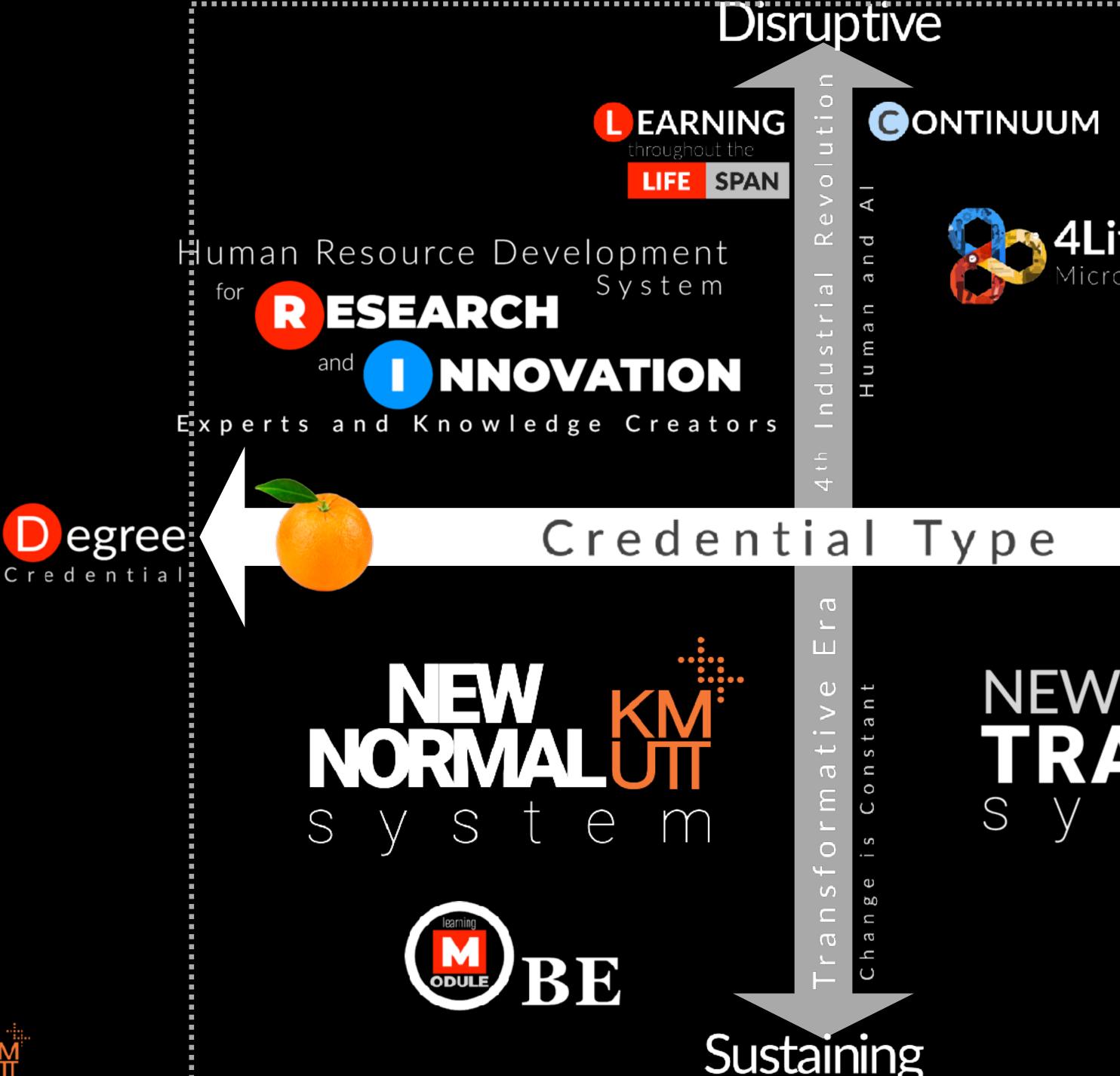


High Competence **JOB READINESS** CREDIBILITY











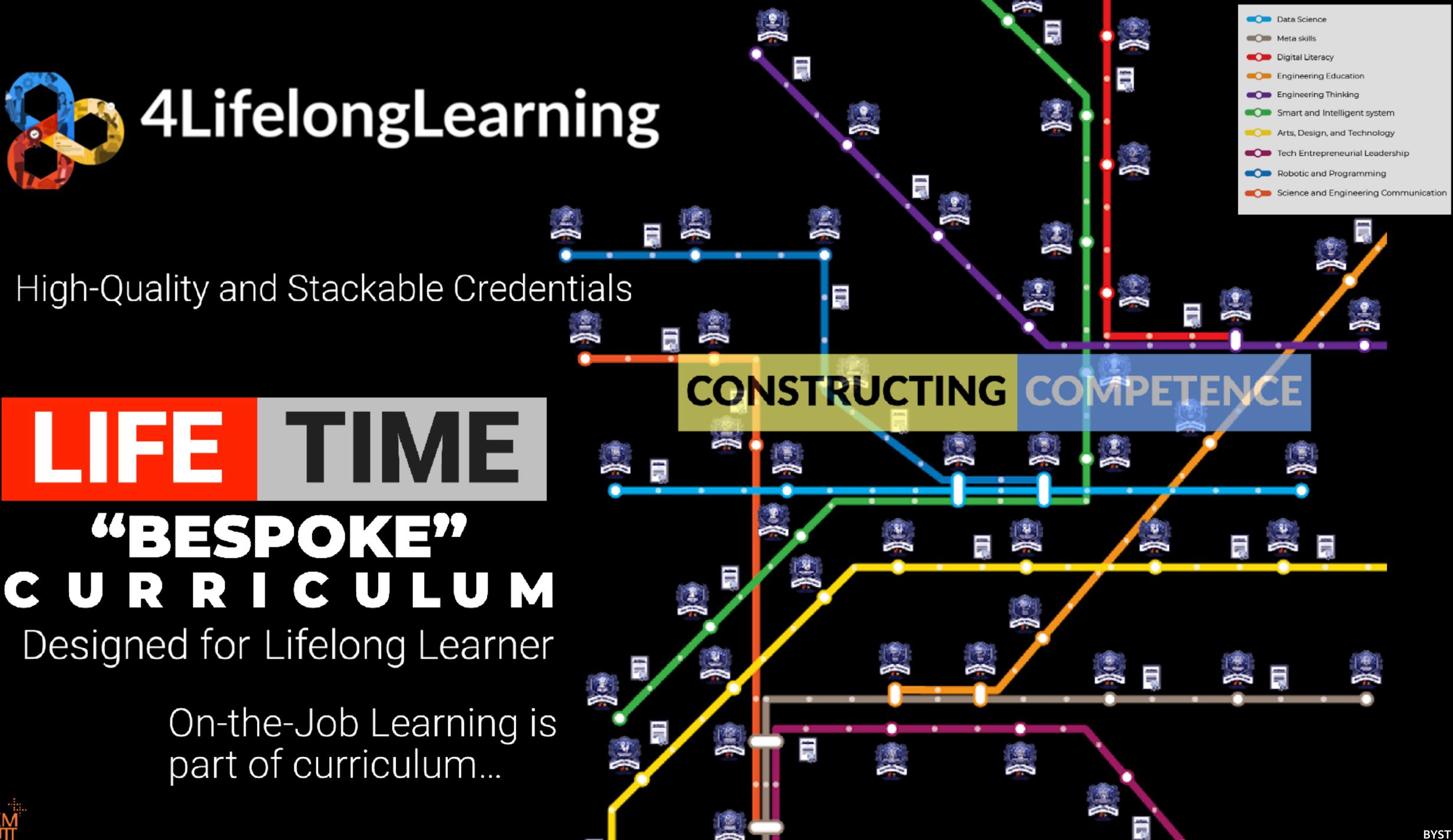
4LifelongLearning Micro-Credential

NEWNORMAL TRAINING

KMUTT4Life[&]











- Competent To **Do Something**
- Modularity in Design
- Stackable

Verified Certificate CREDIBILITY



BE COMPETENT TO



engaging

CROCREDENT

SYSTEM THINKING

ALITELONGLEARNING MONGKUTS UNIVERSITY O TECHNOLOGY THONBURI



CONSTRUCTING COMPETENCE

growth

branching

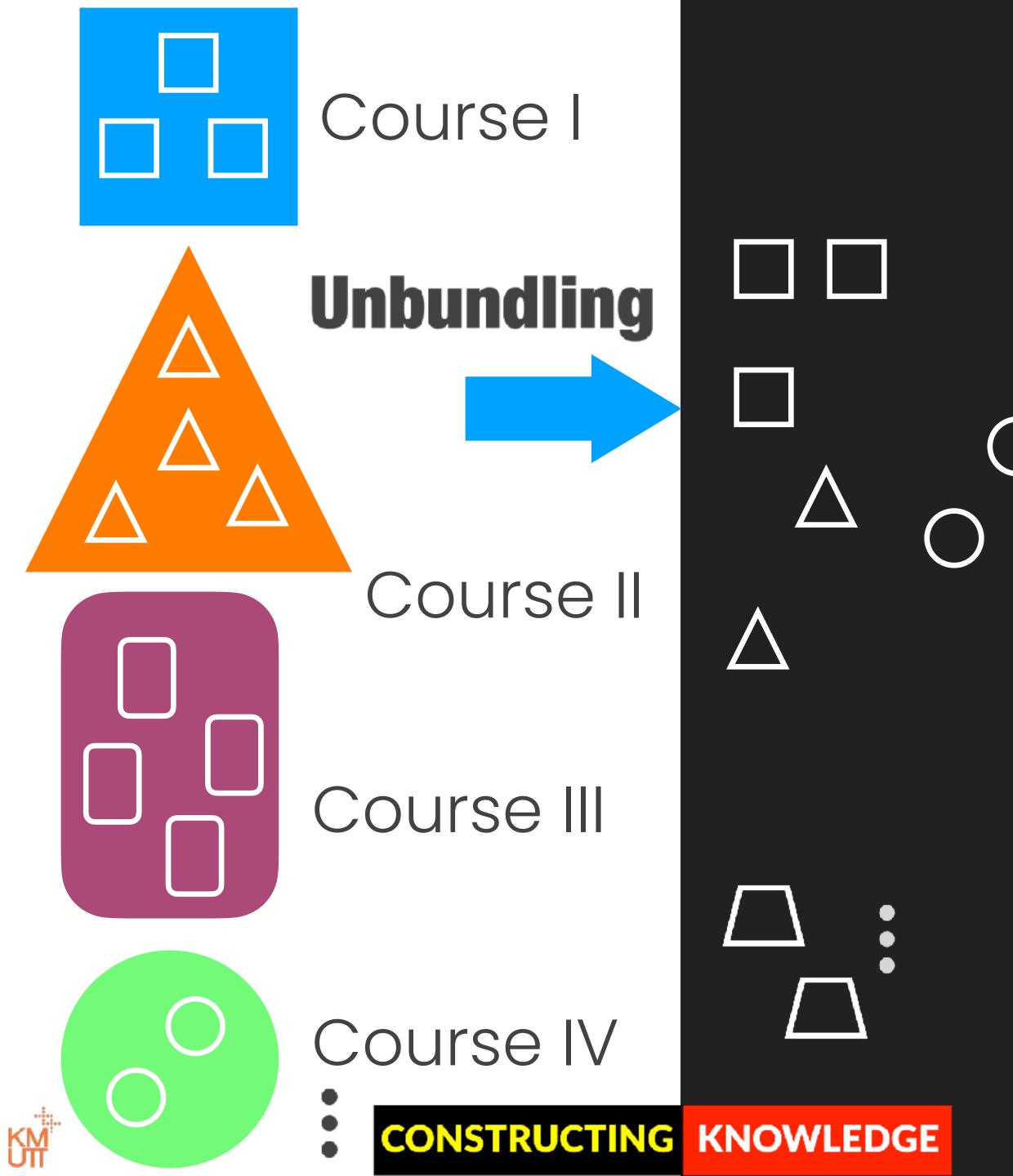












REinventing Curriculum 🗟 F 😫 F 🔔 Integration



• Competent To

Modularity

in Design

Do Something















