

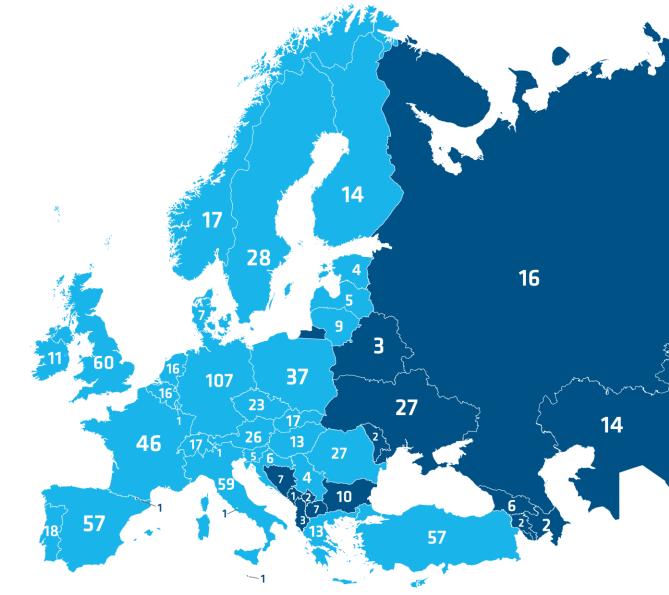
# DIGITALLY-ENHANCED LEARNING AND TEACHING AT EUROPEAN HIGHER EDUCATION INSTITUTIONS

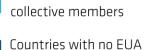
Thérèse Zhang European University Association ASEM SOM1 Malta, 22-23 May 2023

## 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)

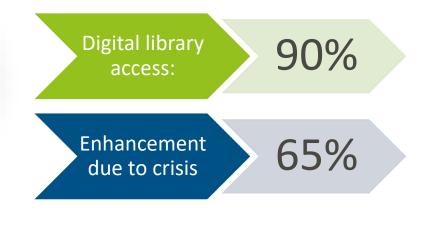
# DIGIHE

# 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%	<ul> <li>innovates teaching</li> </ul>	Transforms inter- institutional collaboration	64%	86%	<ul> <li>It brings benefits to the student experience</li> </ul>
75%	<ul> <li>flexible provision</li> </ul>	Outreach to international	57%	85%	
35%	<ul> <li>data on student learning</li> </ul>	students Virtual mobility	25%	75%	73% • Students have a positive attitude towards it

# DIGIHE

Is external QA a barrier?

Spain

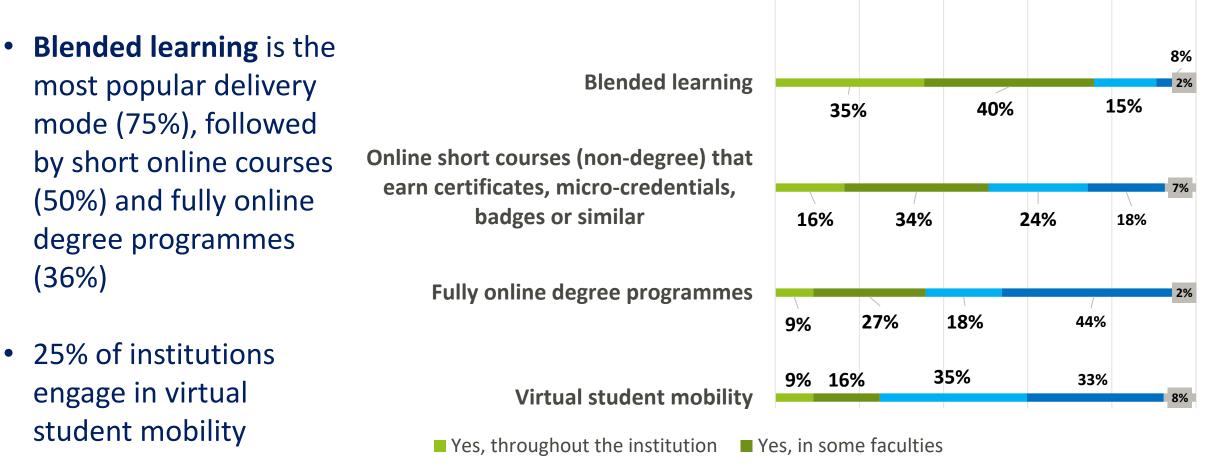
31%

EHEA

11%

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

# **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%

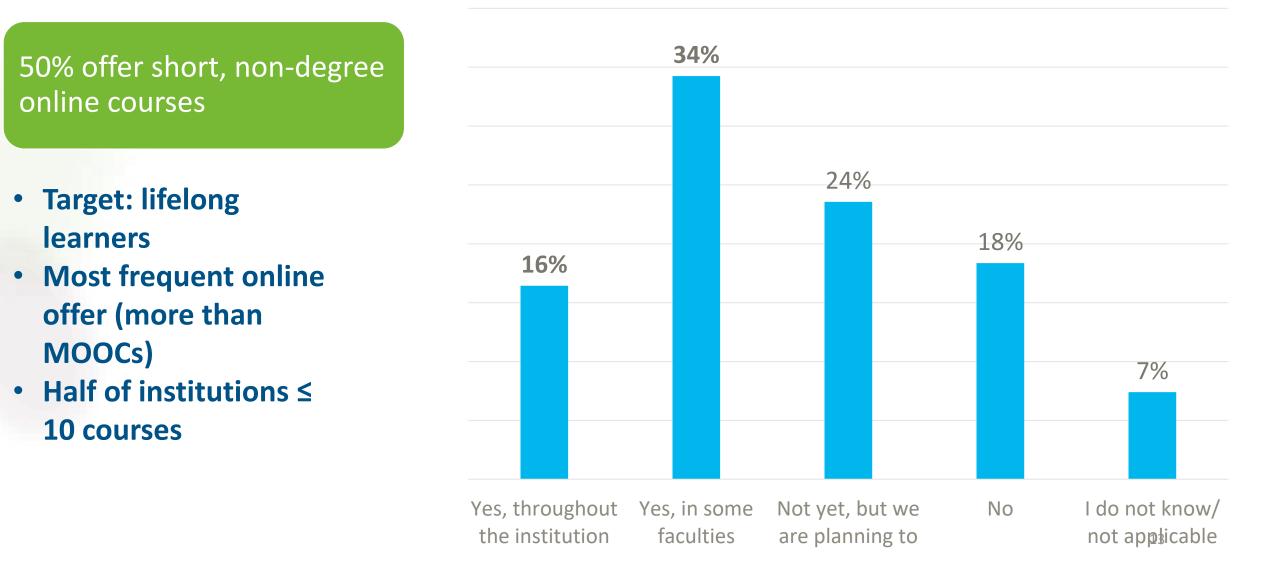
92%

# 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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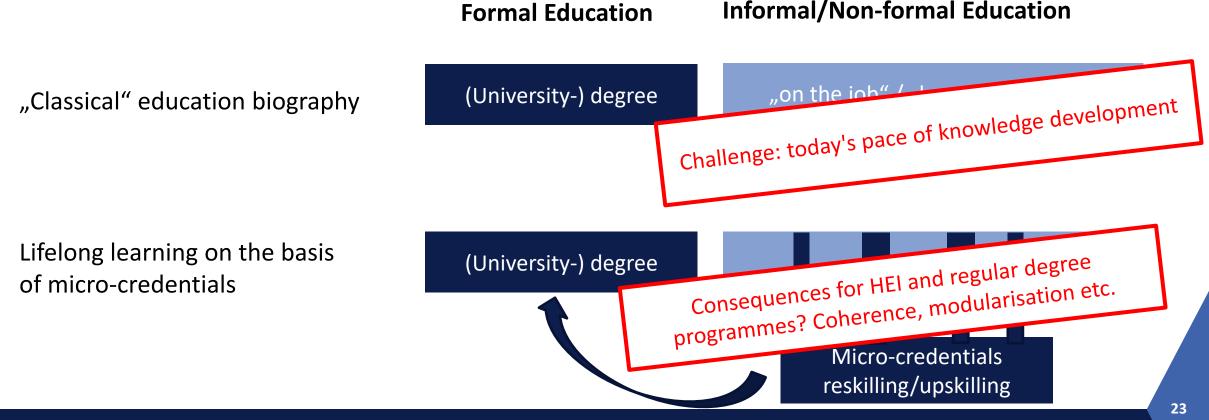
## **Table of Contents**

- 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.

## **Table of Contents**

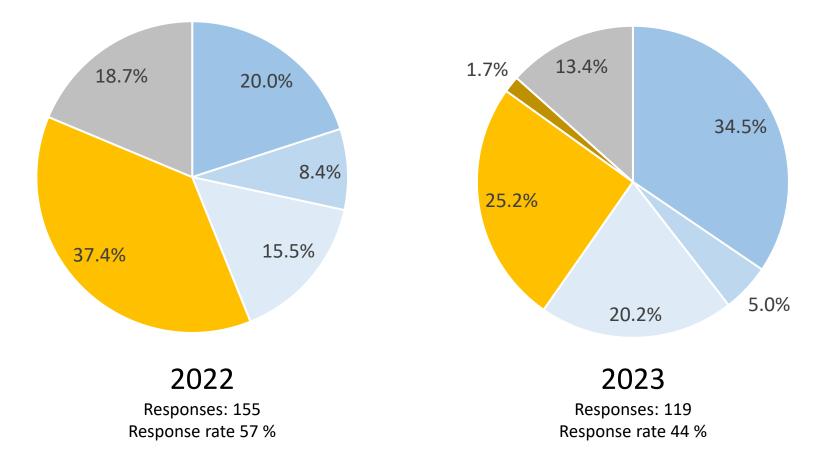
I. Background

## 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?* 



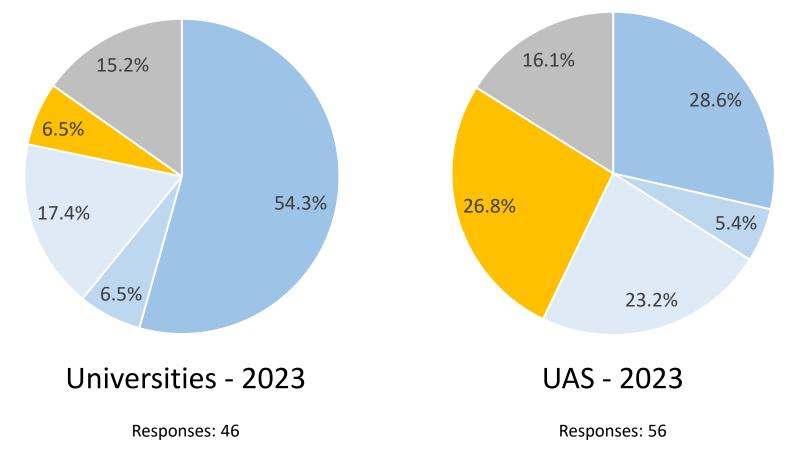
Yes

- 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?

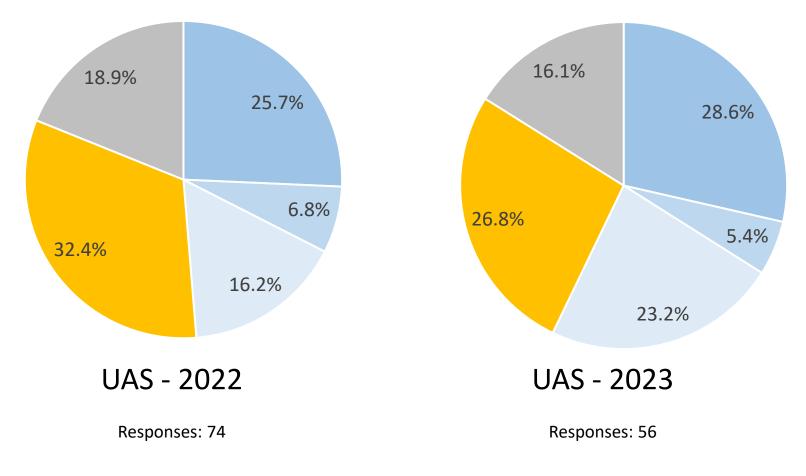




- No, but there are already plans to introduce micro-credentials
- No, but micro-credentials are a major topic of discussion
- No, micro-credentials are not a major topic of discussion at the moment
- Don't know/no answer

# 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

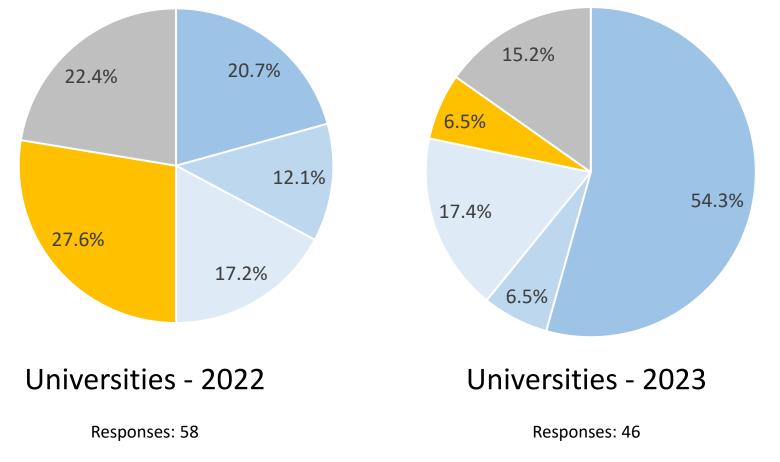
No, micro-credentials are not a major topic of discussion at the moment

introduce micro-credentials

topic of discussion

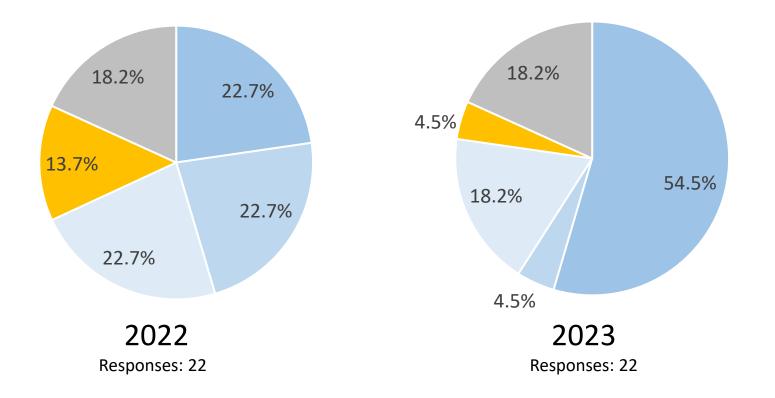
Don't know/no answer

Does your university offer micro-credentials?



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

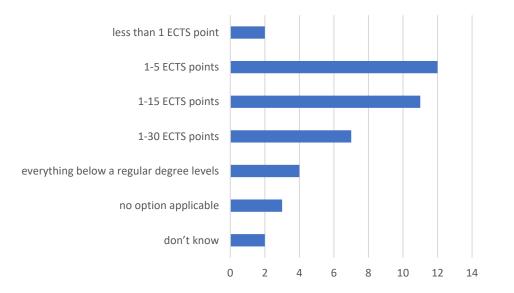
### Does your university offer micro-credentials?



- 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

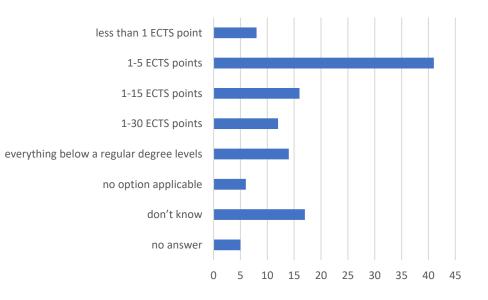
# Survey – Micro-credentials at German Higher Education Institutions Workload

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



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

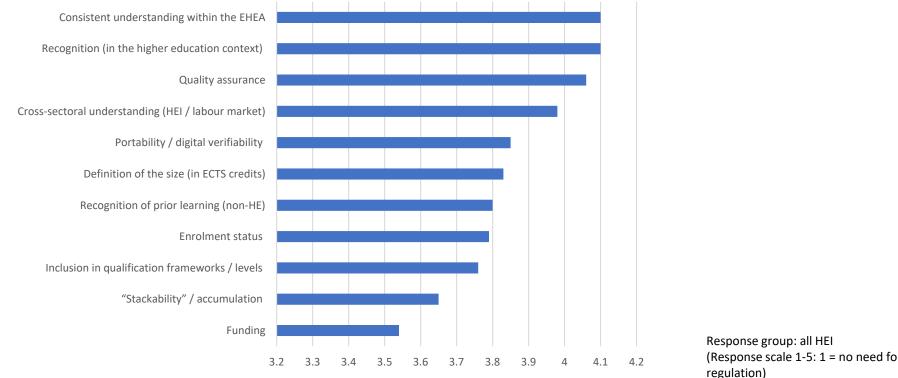
To what size should the term "microcredentials" refer to?



Response group: all HEI (no multiple answers)

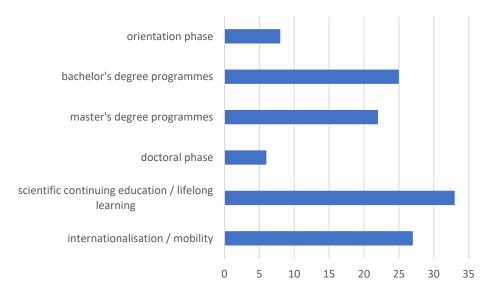
# Survey – Micro-credentials at German Higher Education Institutions Regulation

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

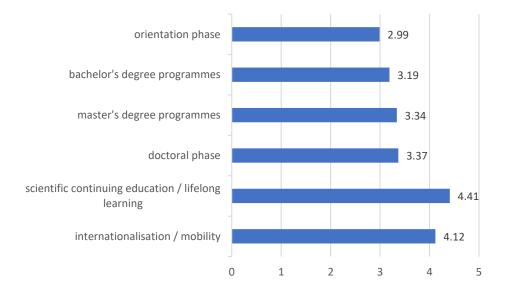


# Survey – Micro-credentials at German Higher Education Institutions Fields of application

*In which context micro-credentials are offered?* 



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

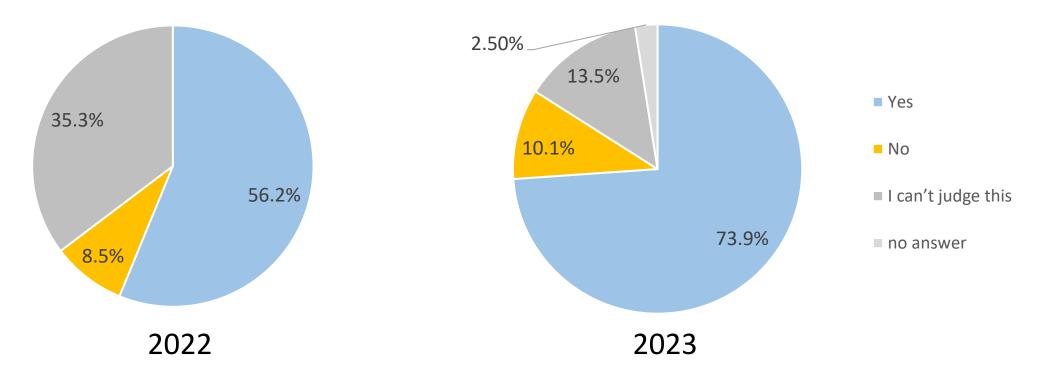


Response group: all HEI Response scale 1-5: 1 = not useful at all 5 = very useful)

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?* 



#### **Table of Contents**

- I. Background
- **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

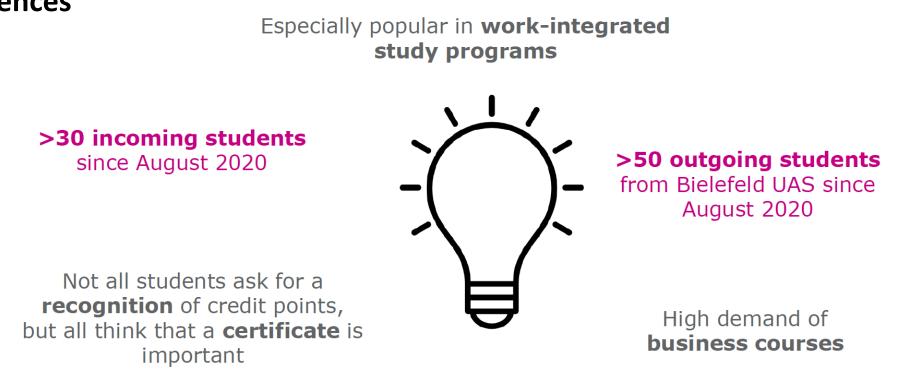
Transcript of Records



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

eu.daad.de



### 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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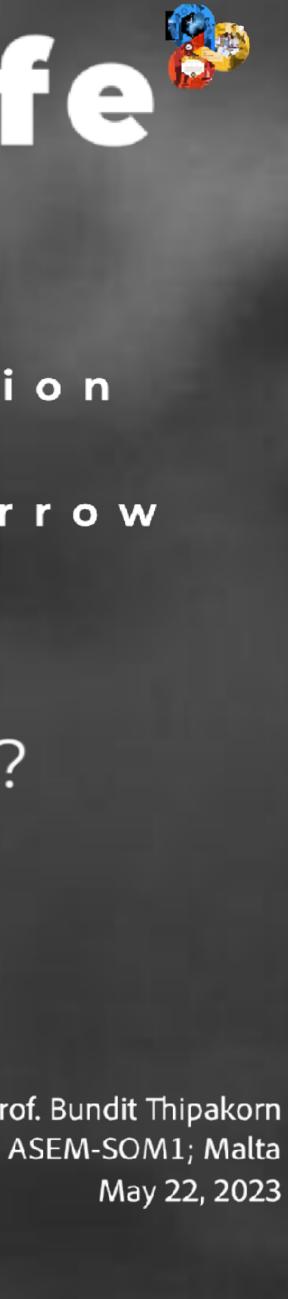
Federal Ministry of Education and Research

# 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

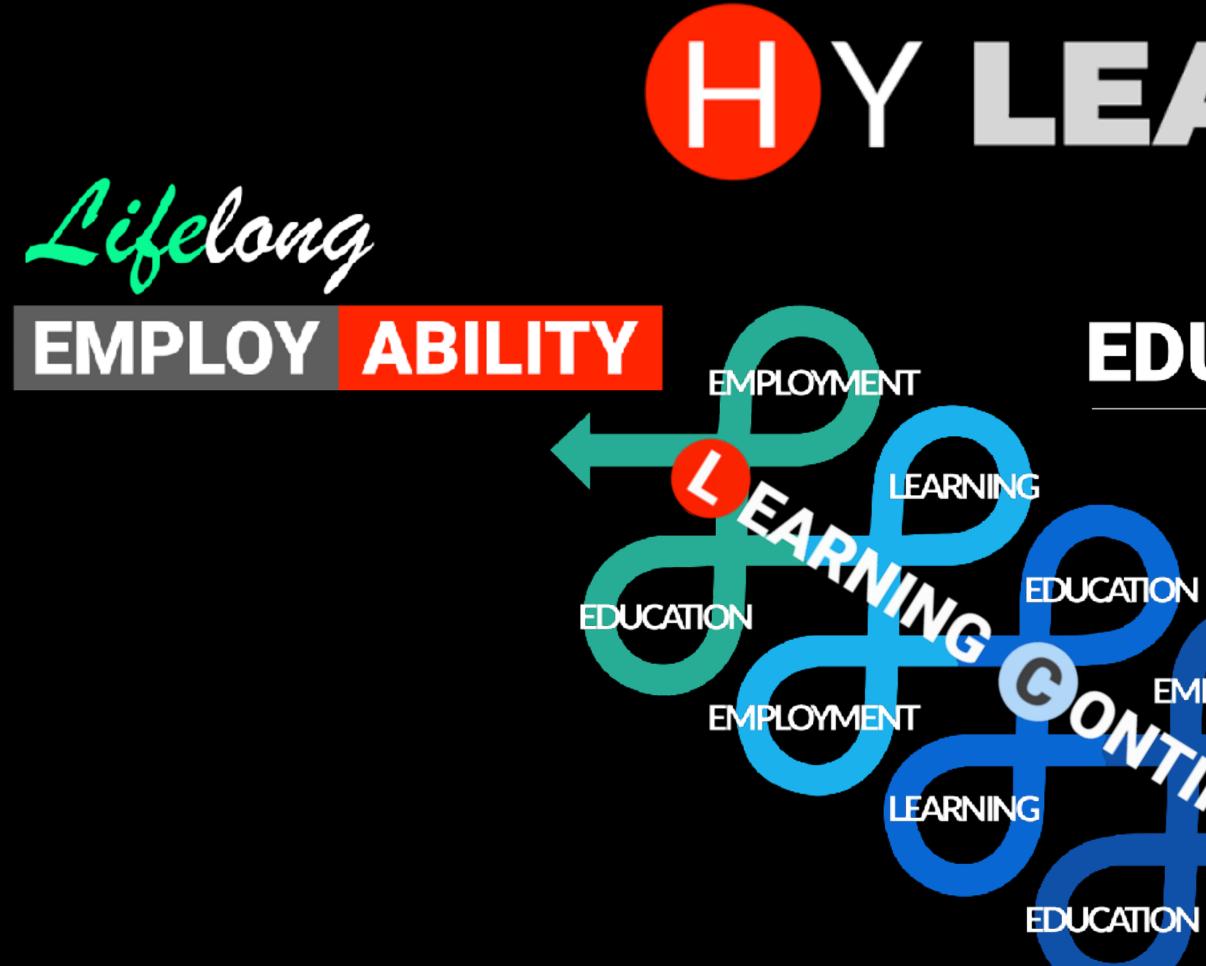
DISBUPTING

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.

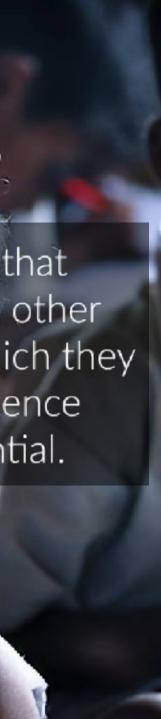
# HY LEARNING

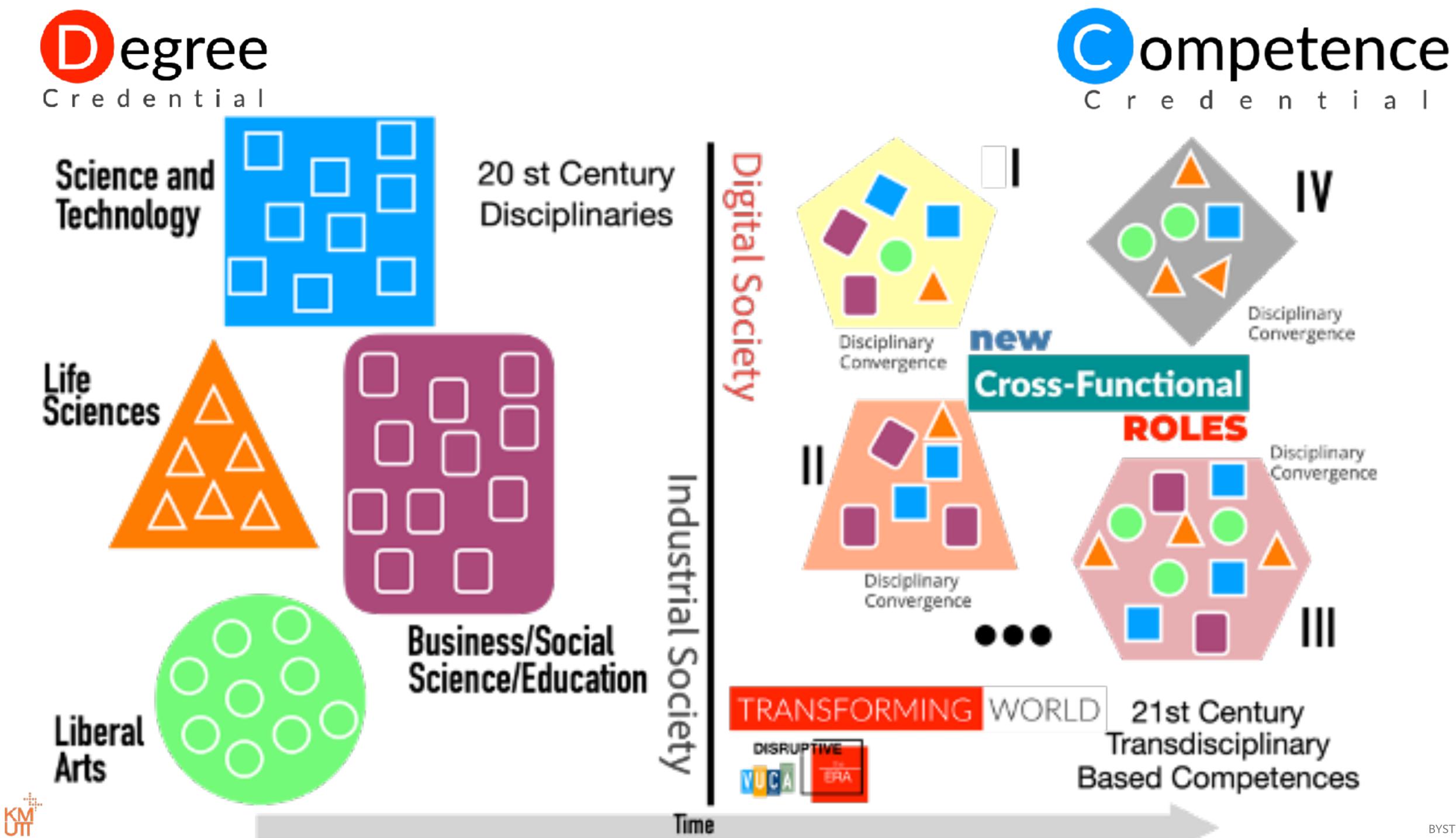
## EDUCATION is never-END

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

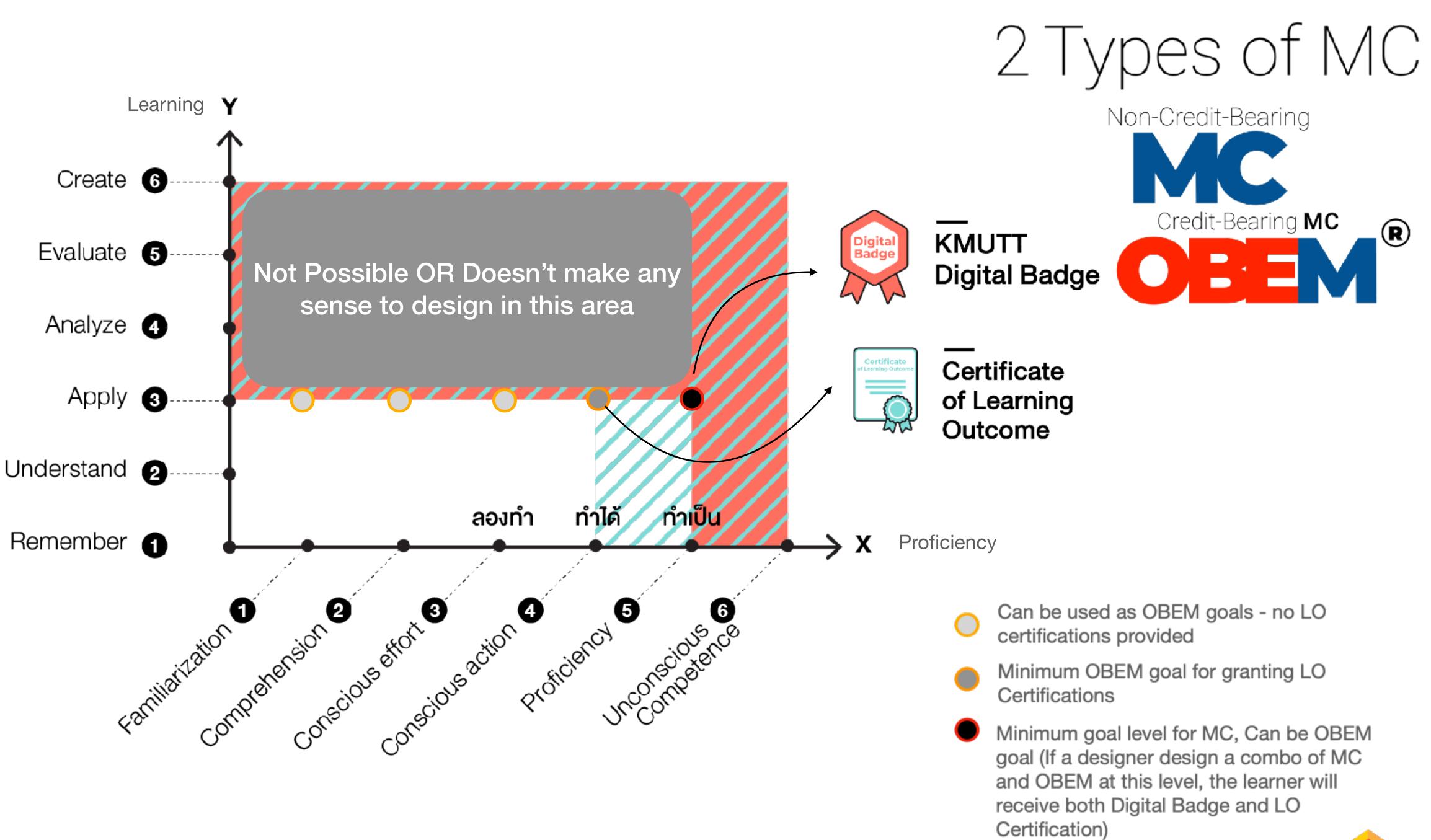


4LIFELONGLEARNING KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI

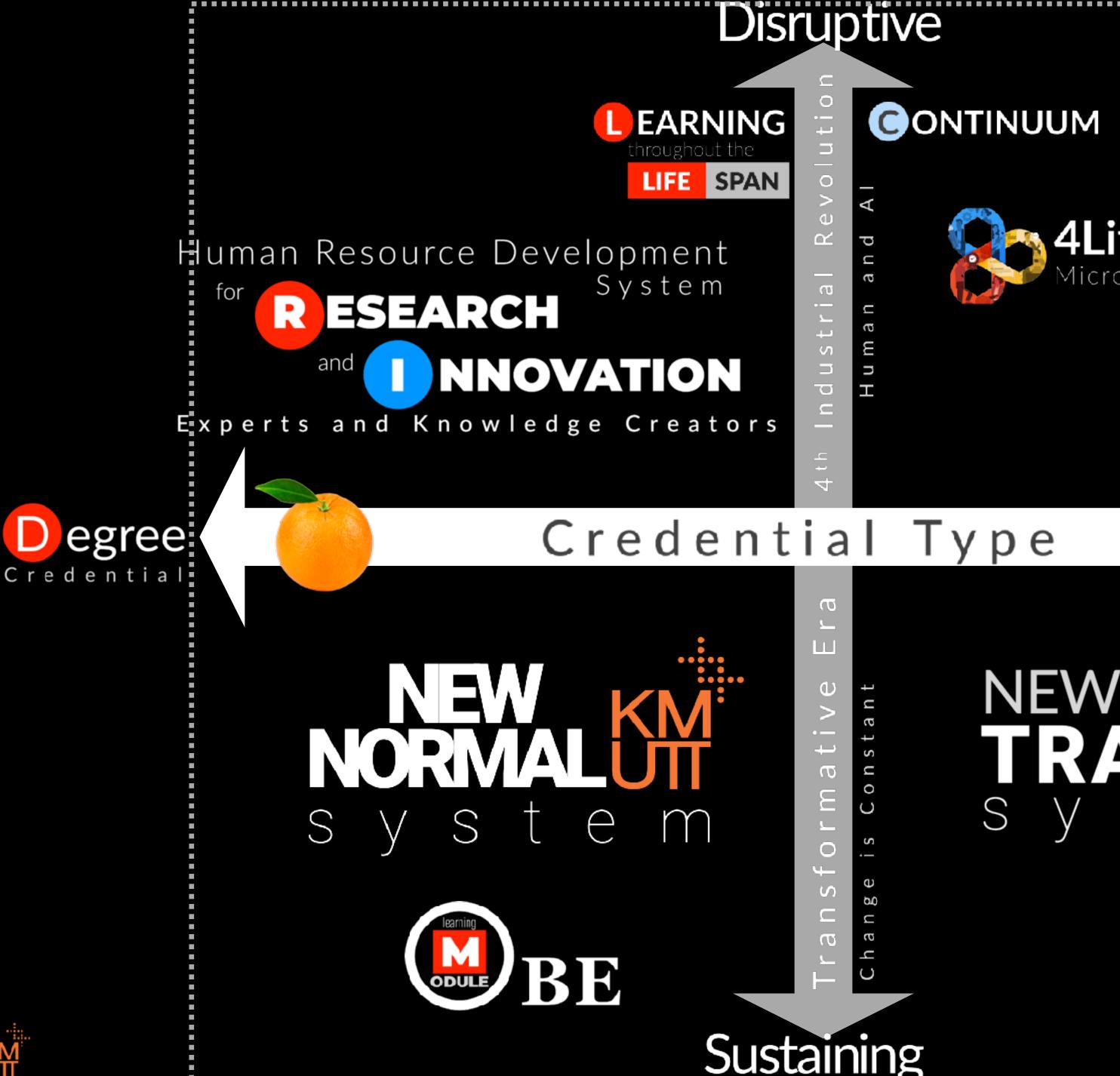


## High Competence **JOB READINESS** CREDIBILITY











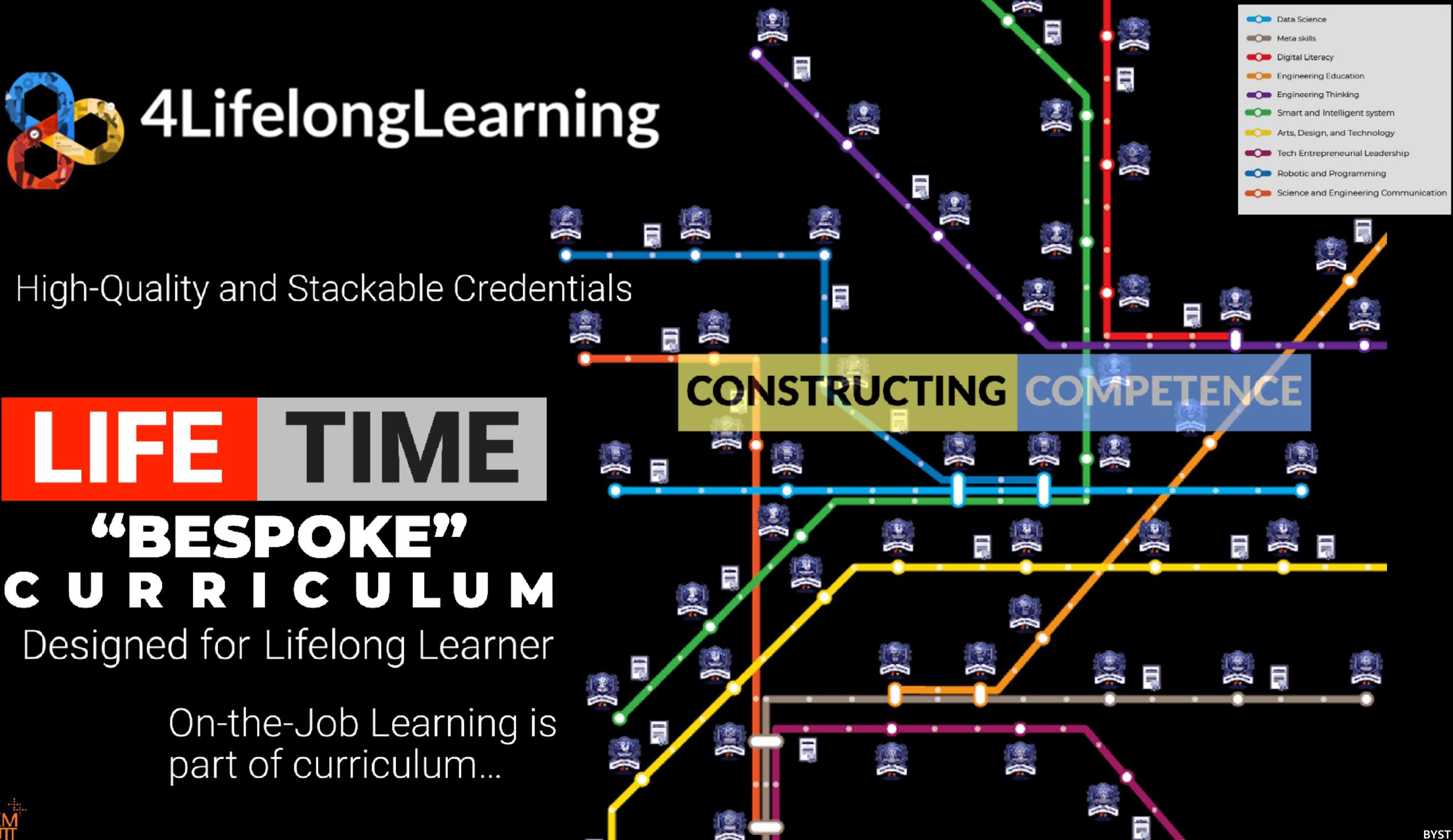
# **4LifelongLearning** Micro-Credential

# NEWNORMAL TRAINING

# KMUTT4Life<sup>&</sup>











- 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

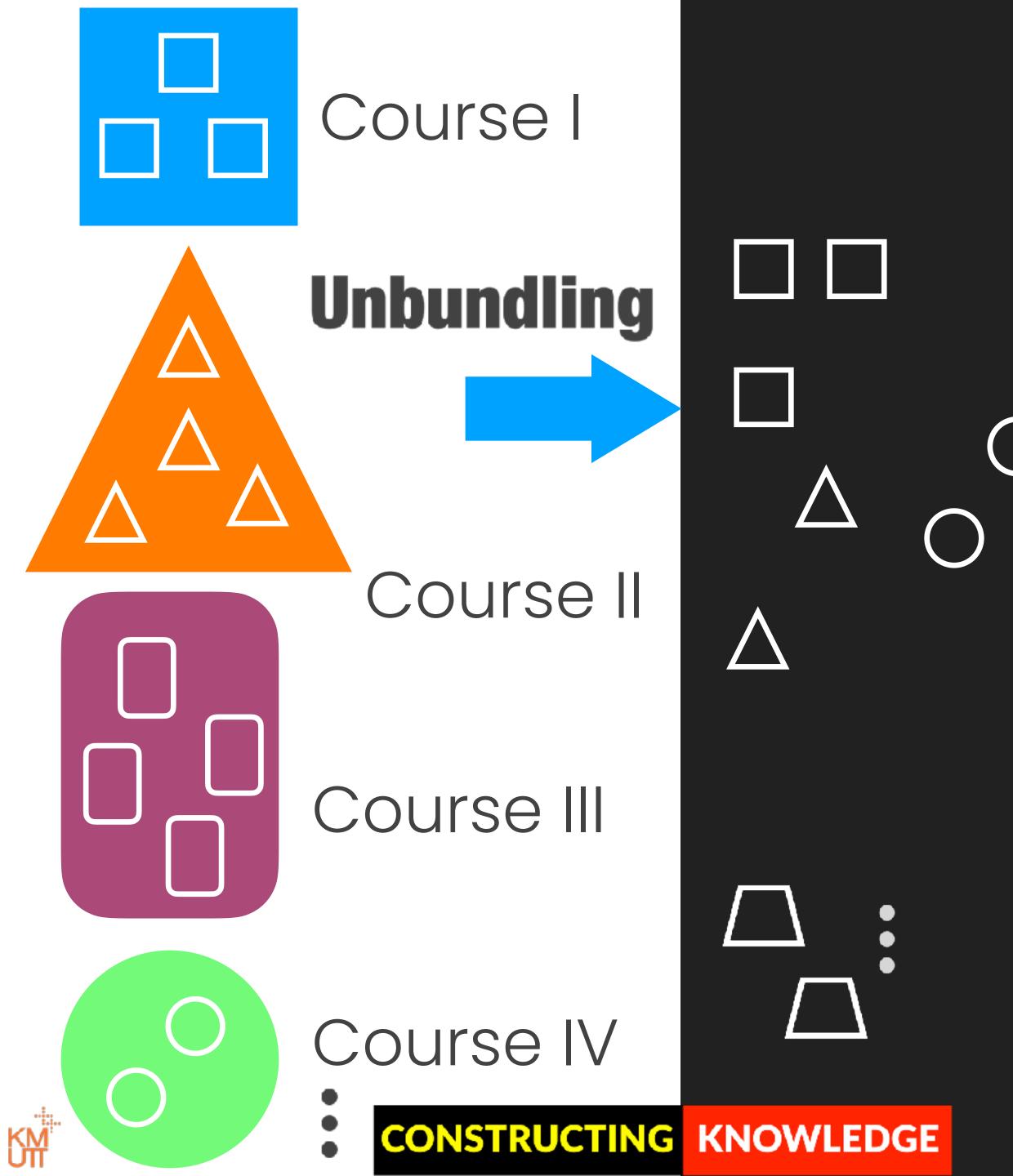












# REinventing Curriculum 🗟 F 😫 F 🔔 Integration



• Competent To

Modularity

in Design

**Do Something** 















