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STACKKABLE CREDENTIALIAL

KMUTT Micro-credential initiative

Klangjai S.T. & Bundit T.

The reasons

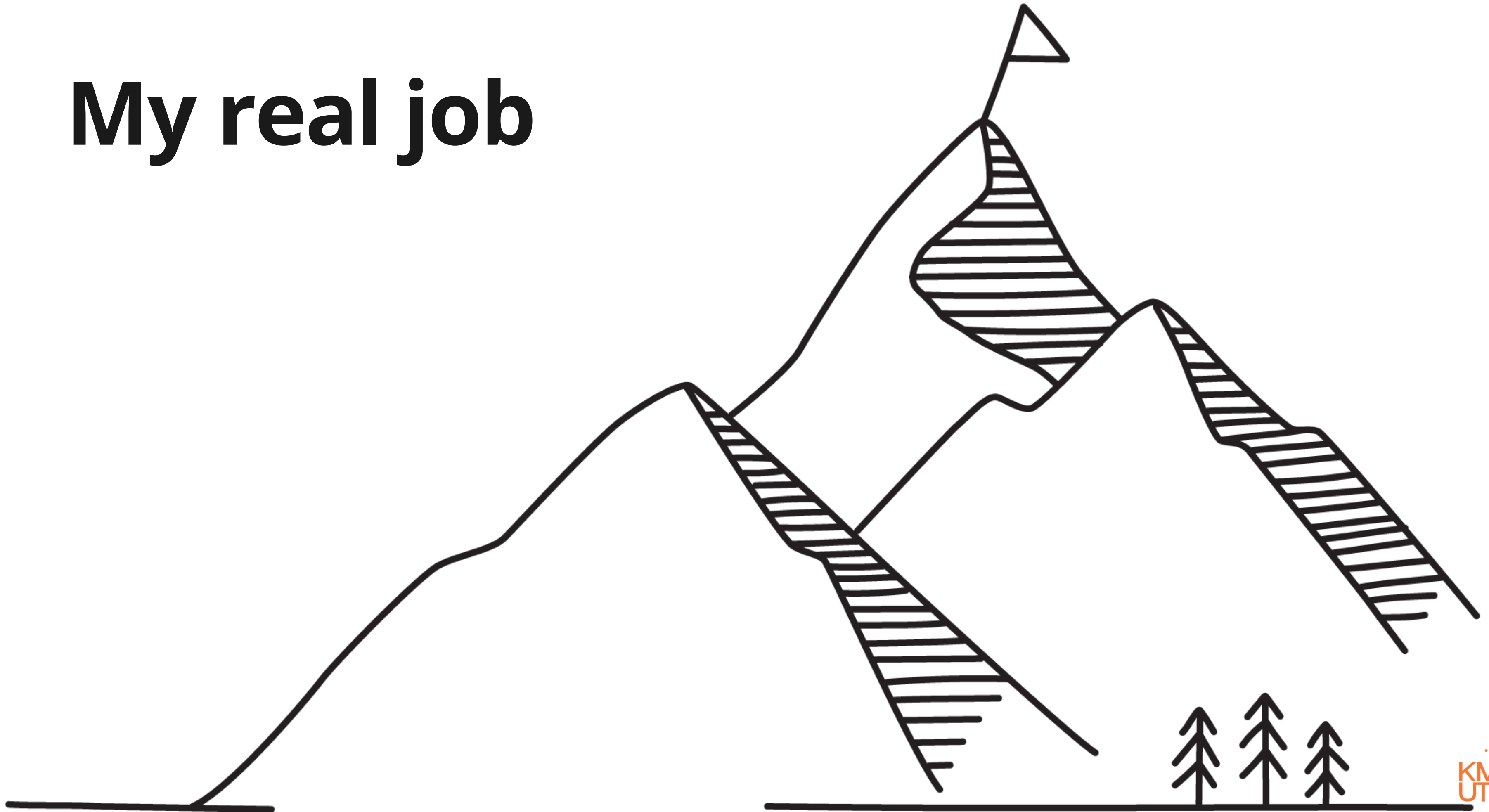
This is my boss

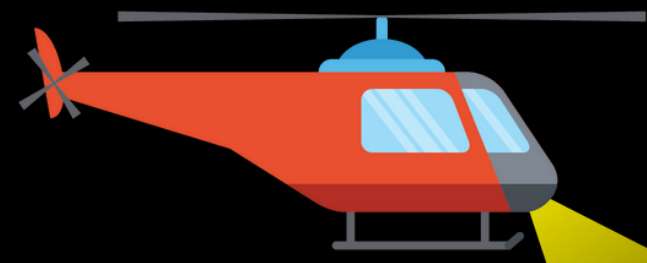


- 1 Micro-credential Platform Development
- 2 Assistant to the president for Educational Development
- 3 Product owners, Education Technology Development and Service

Hi! My name is Jai.

My real job





Reskill-Upskill quickly
and effectively

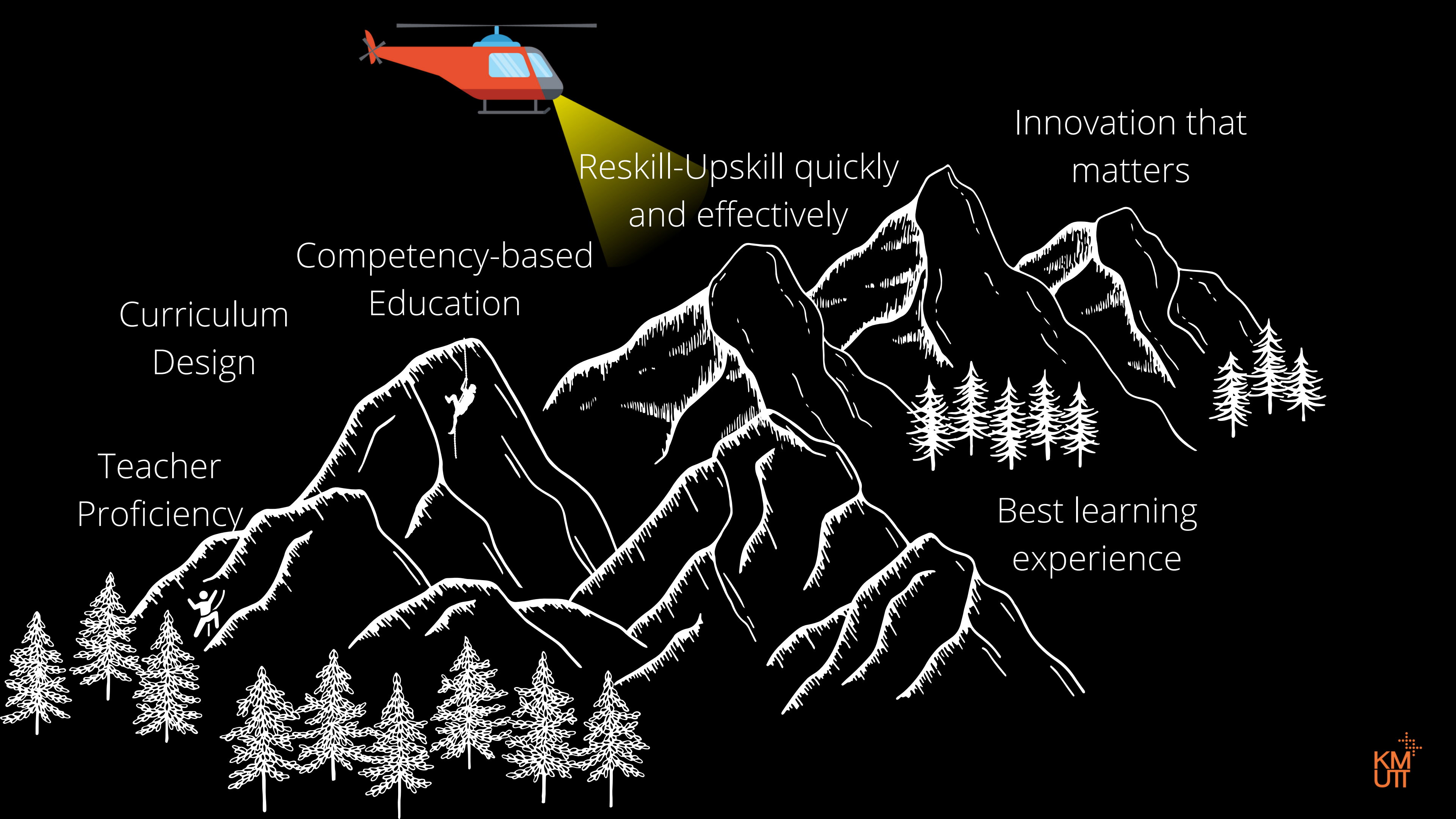
Innovation that
matters

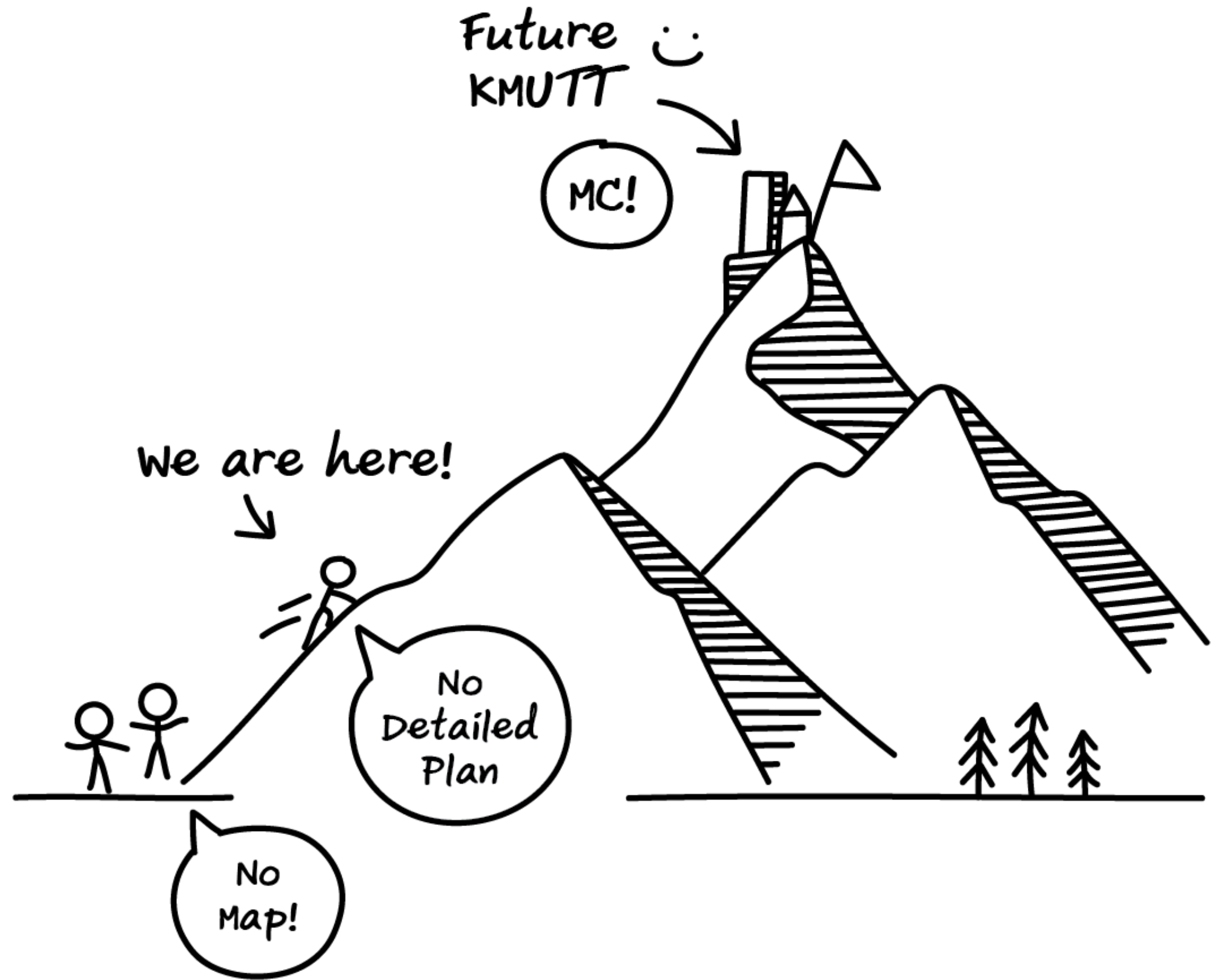
Competency-based
Education

Curriculum
Design

Teacher
Proficiency

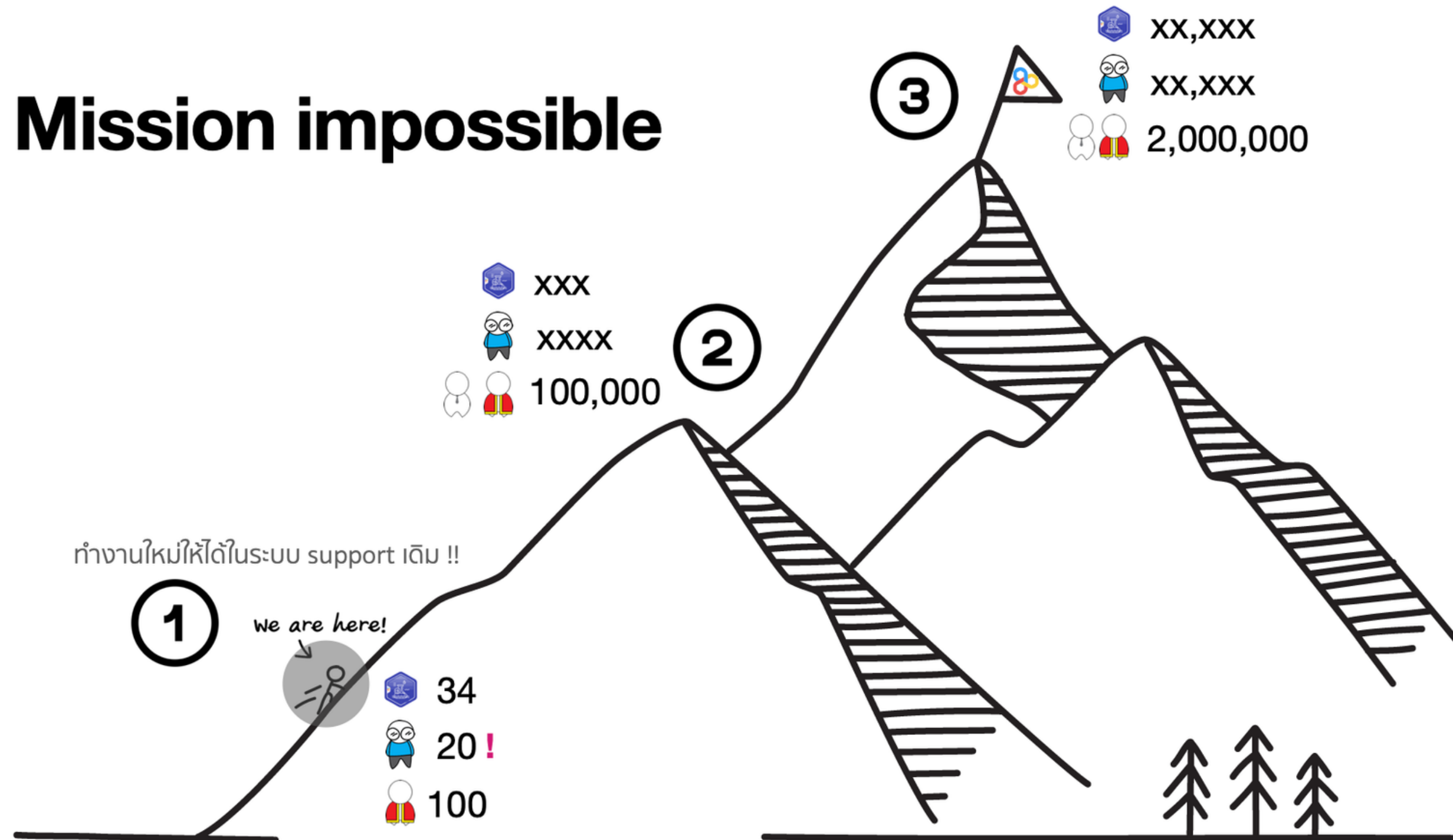
Best learning
experience





Mission impossible

April 2022



An iceberg floating in dark blue water. The tip of the iceberg is above the water line, and the much larger base is submerged. The iceberg is composed of many triangular facets in various shades of blue and white. The water surface is a lighter blue, and the background is a dark blue gradient.

Increasing Satisfaction

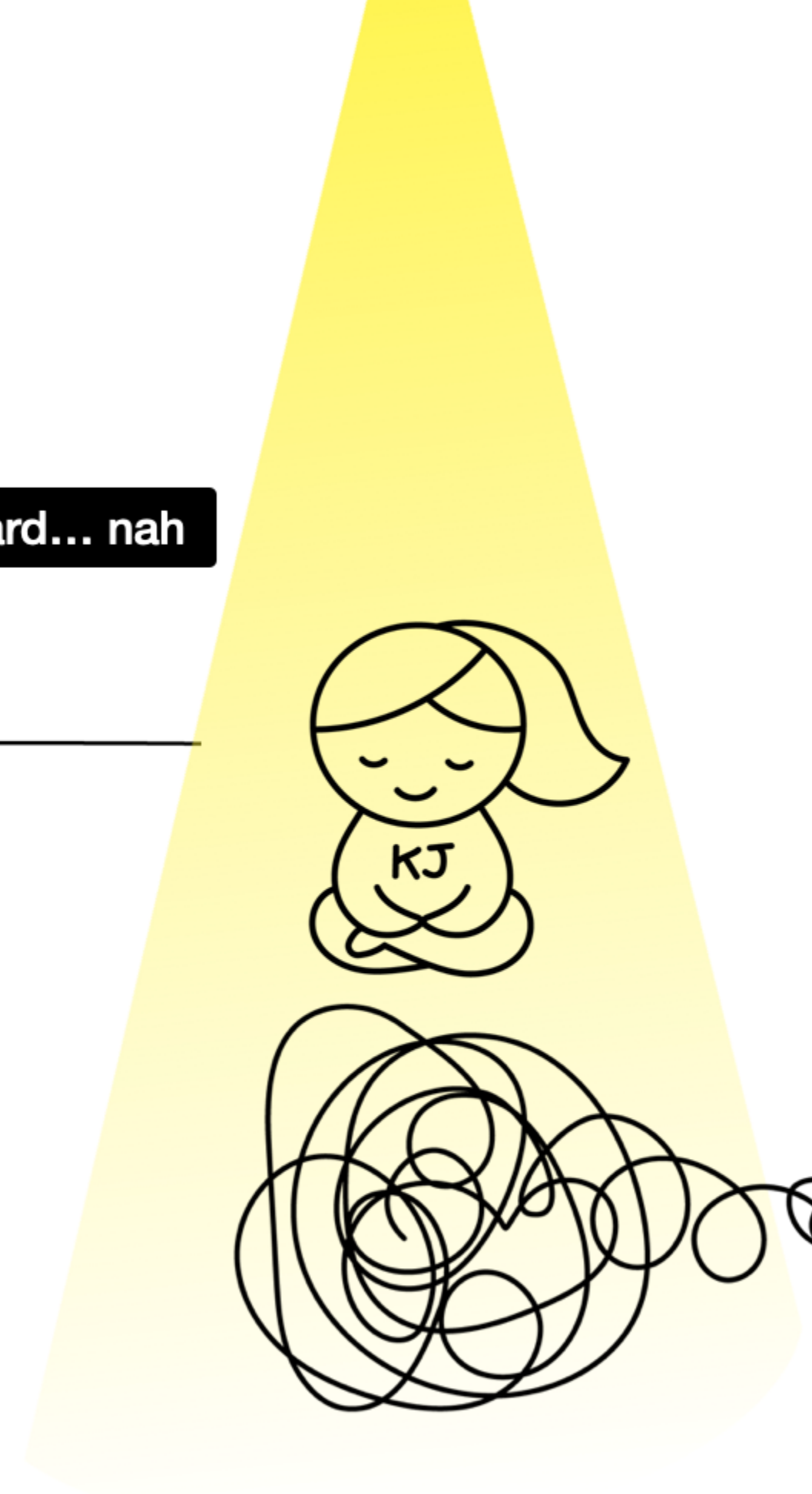
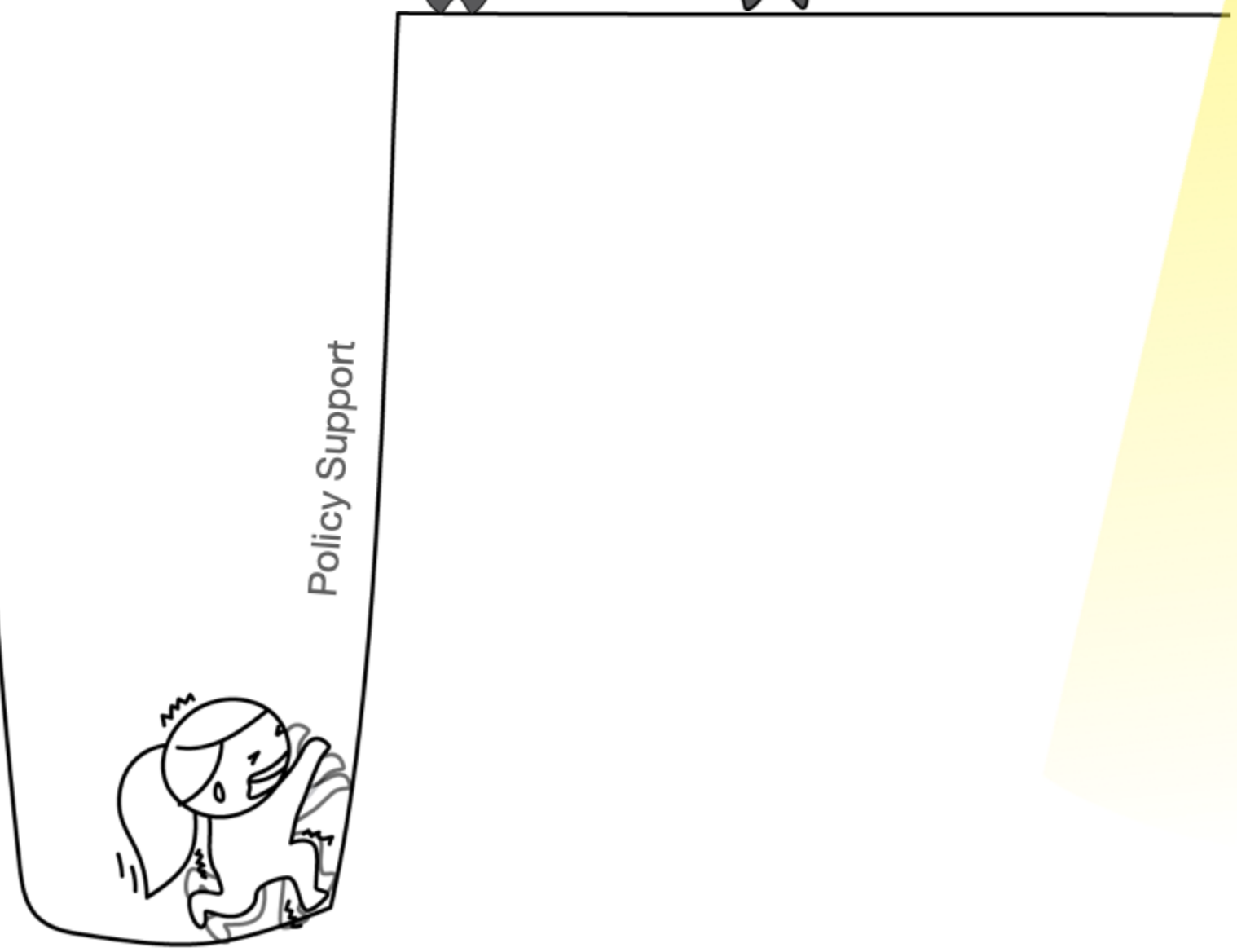
- *UX Design*
- *Feature List*

Decreasing Satisfaction

- *Bugs*
- *Page Load Time*
- *Uptime*

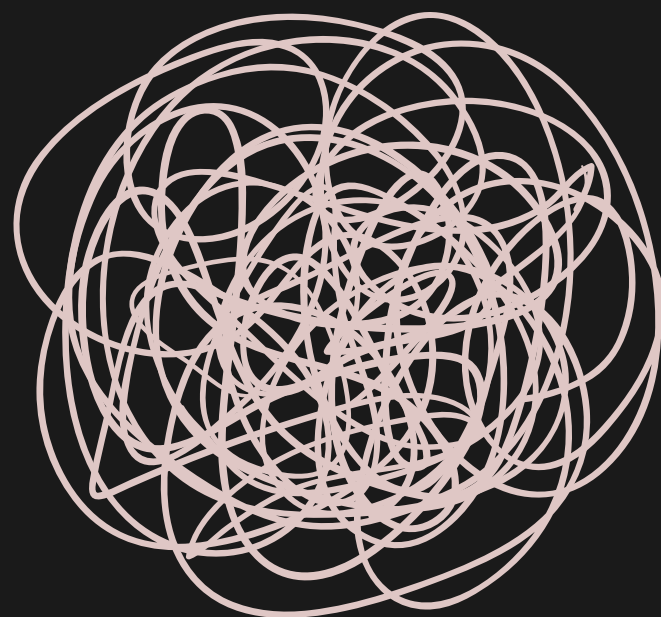
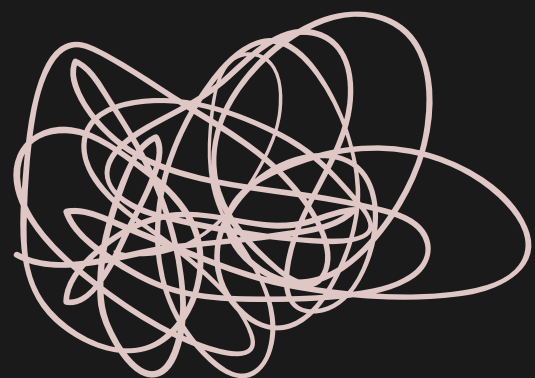
We are too slow
But we have to do it
The Board

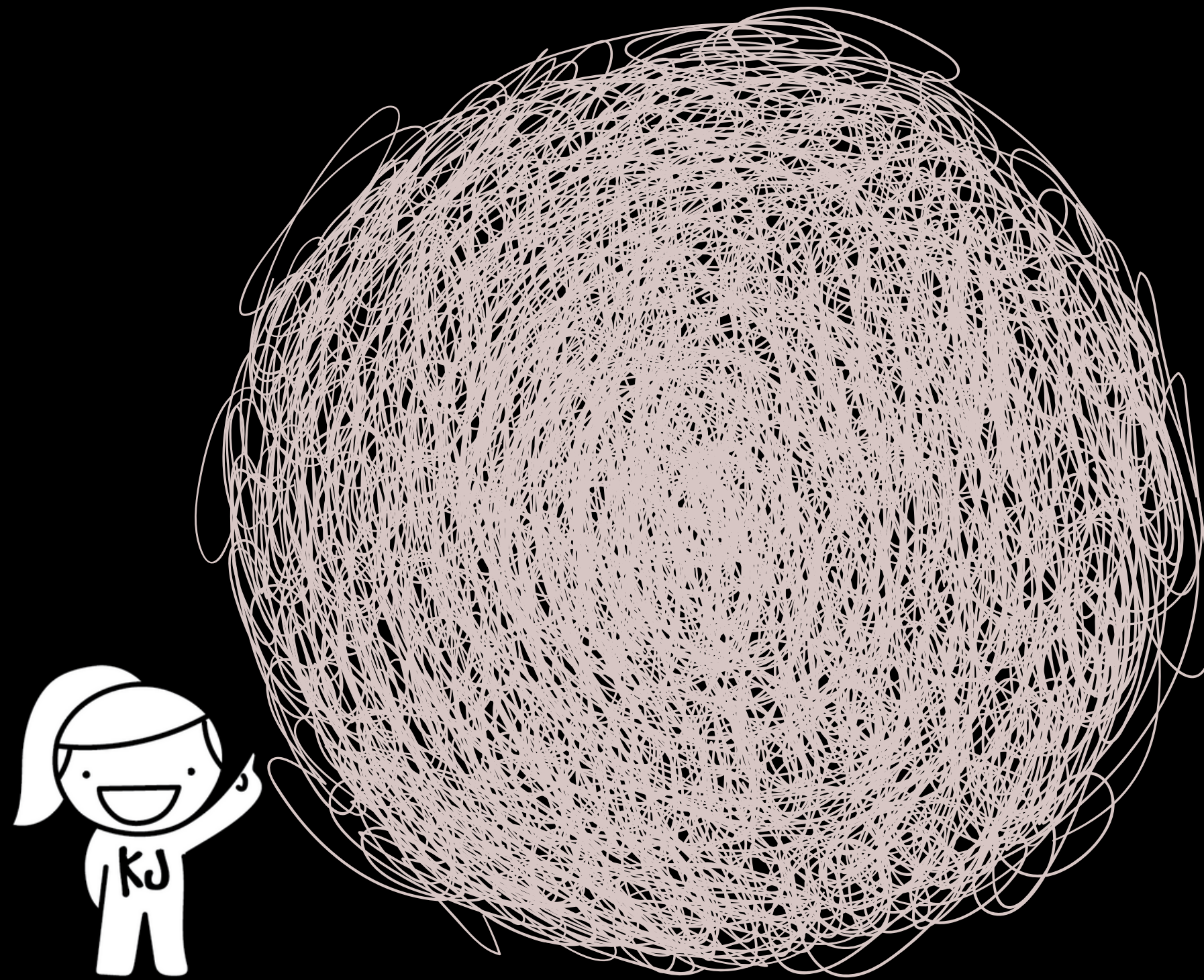
Keep going!
I won't do it
Too hard... nah



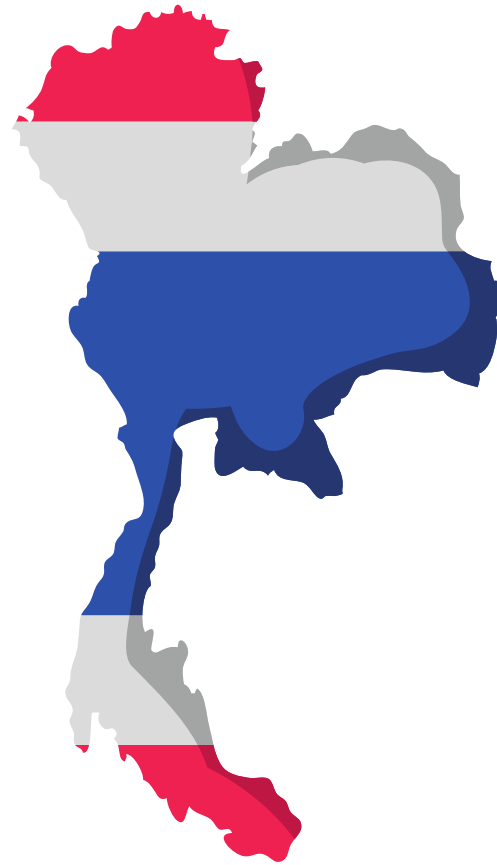
focus on what we can do →

How long you have been working in Education





What do we know?



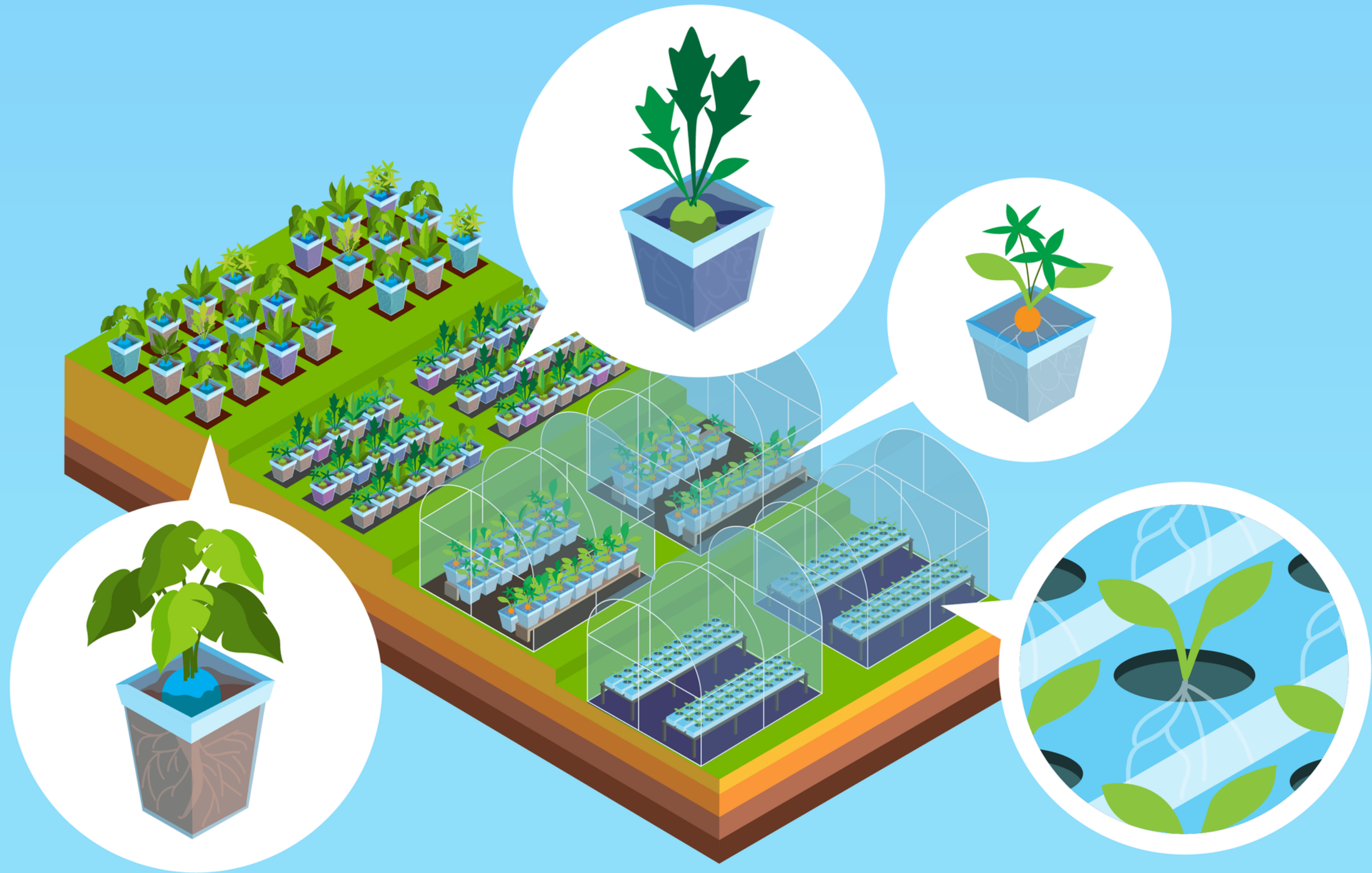
UNIVERSITY

BUSINESS

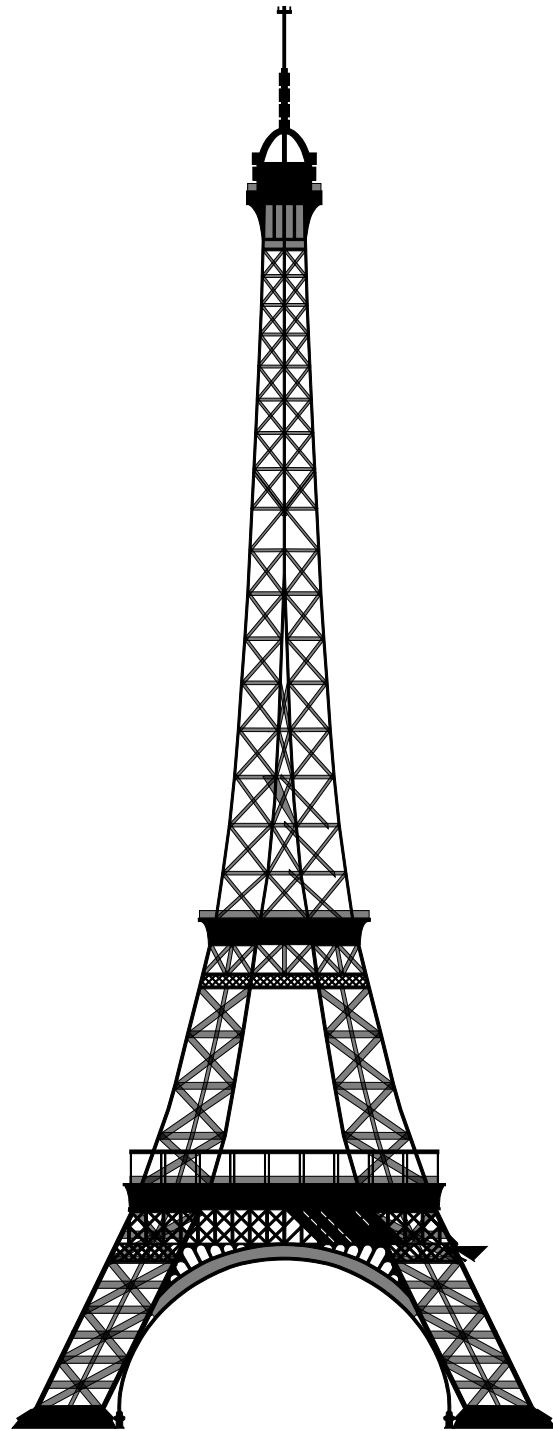
What can I do?



Our big assumptions



4 years degrees



A Traditional Program

VS

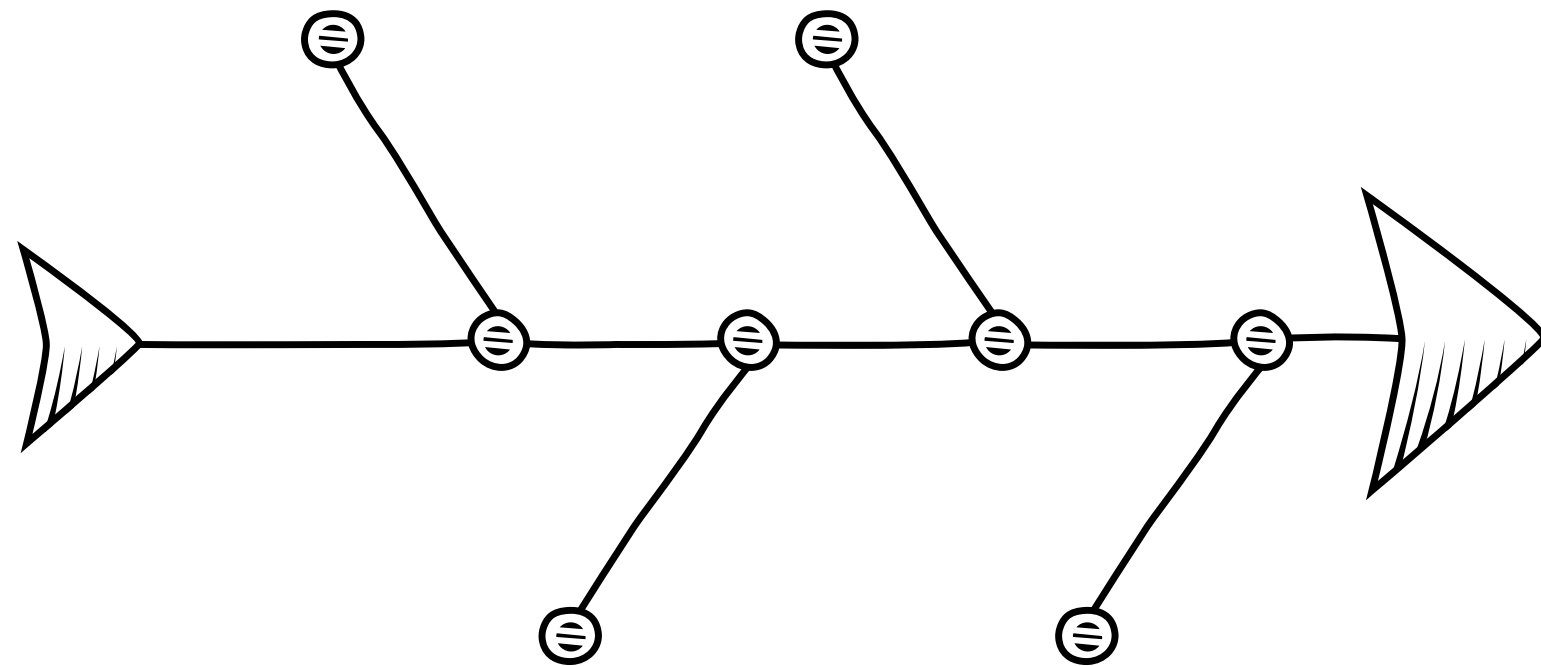


What learner wants



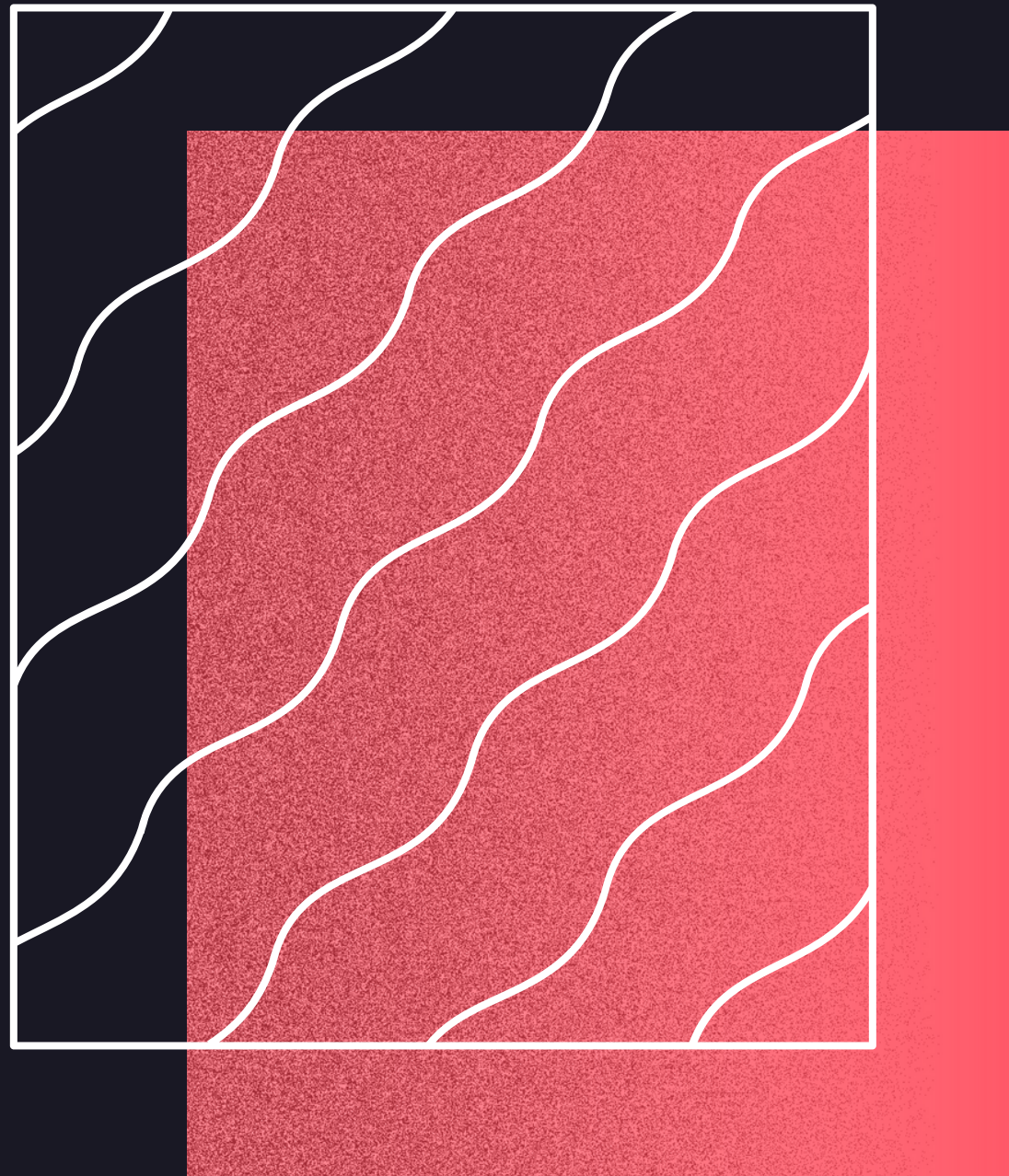
Knowledge

The main organiser of our curriculum

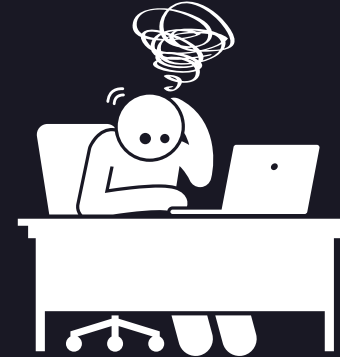


WHAT HAPPENED

Online



Onsite



We do not know....

How to meet the individual needs of all learners

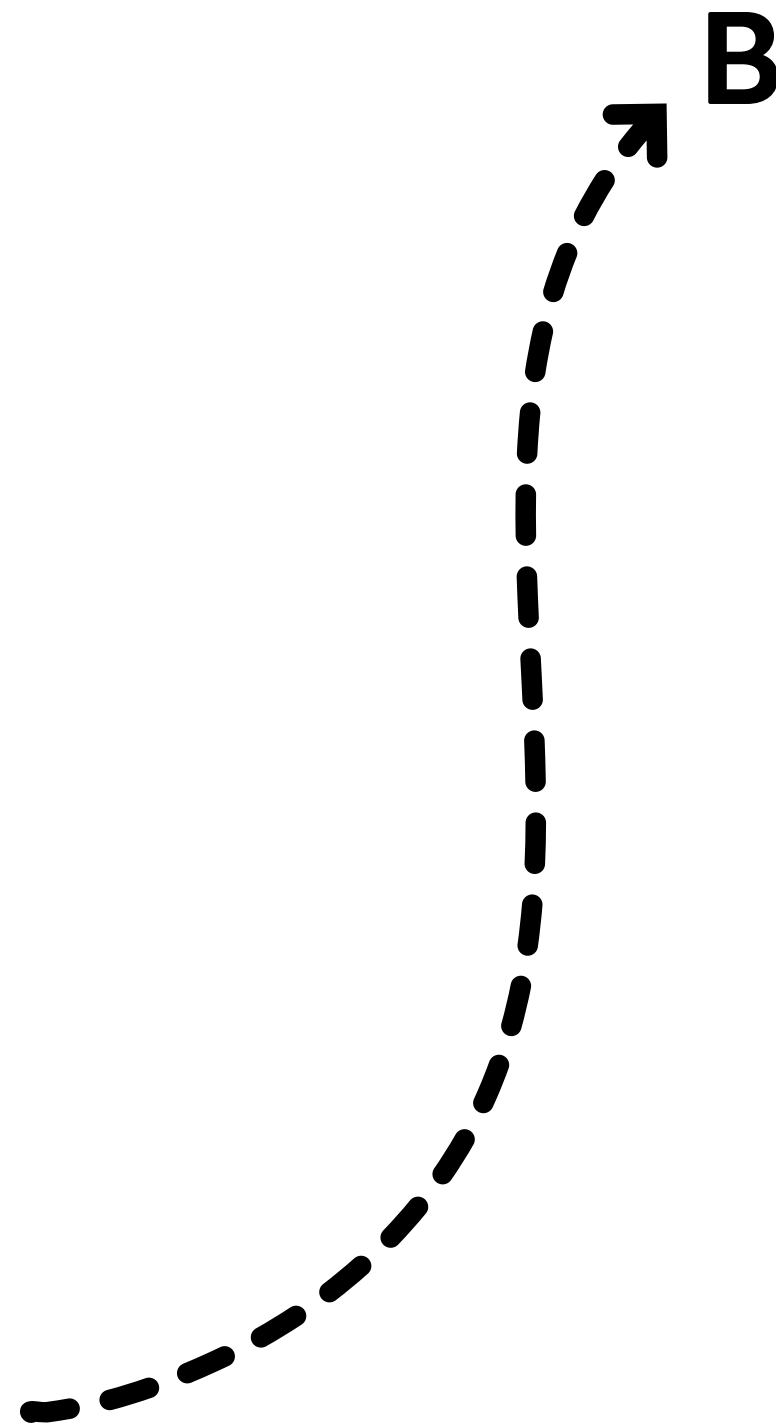


**Knowledge
Construction**

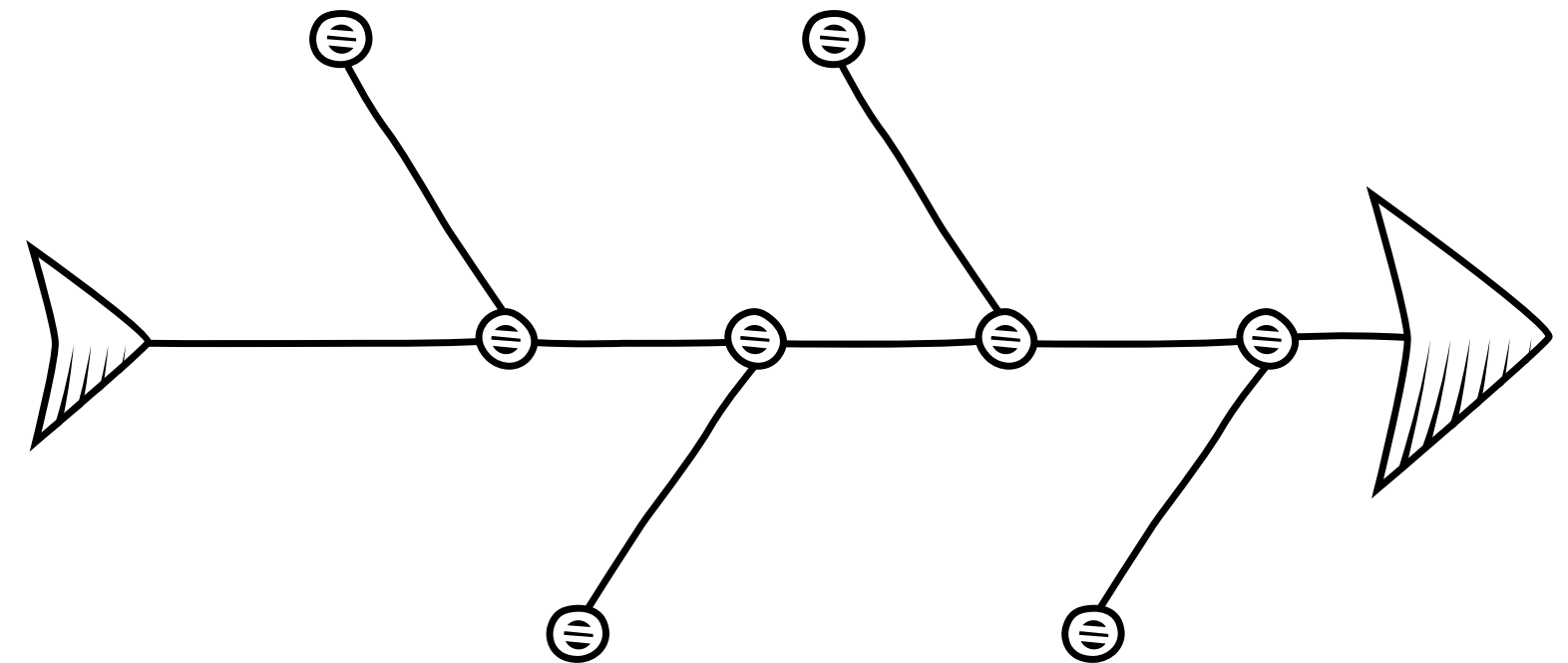
**Competency
Development**



A

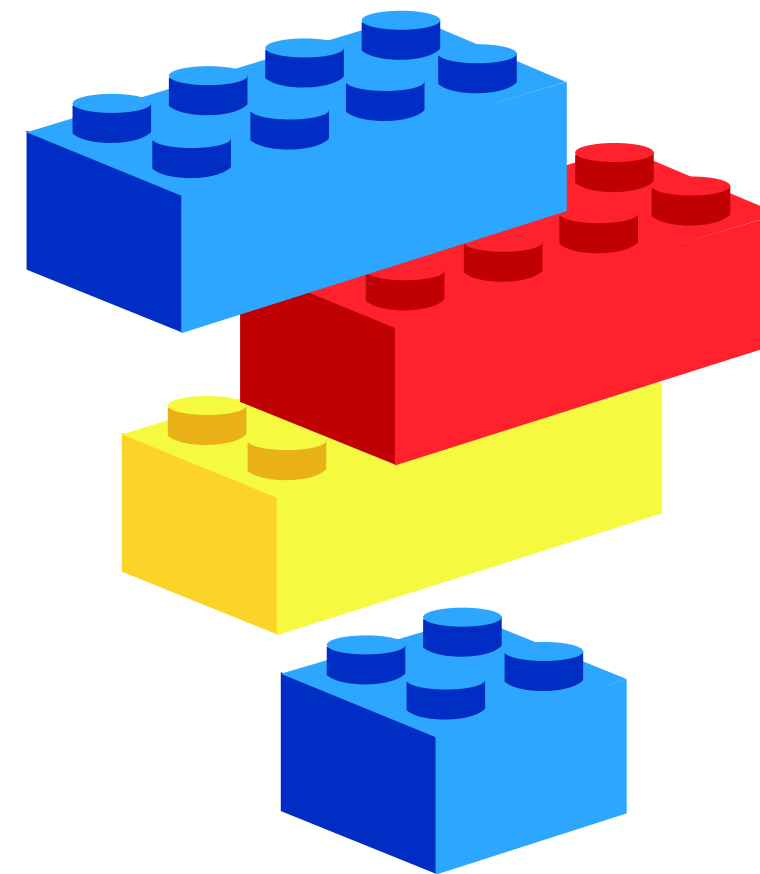


Competence-based Curriculum

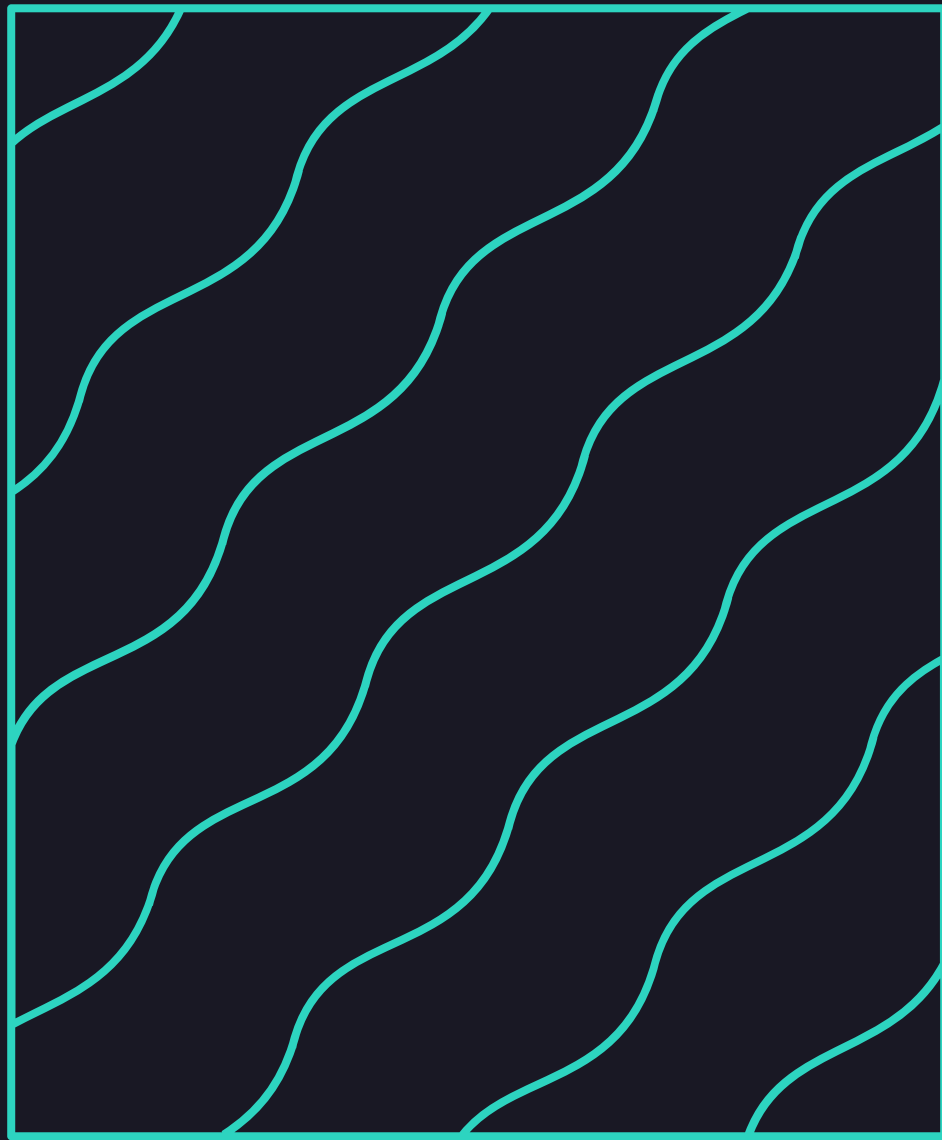


optimal conditions for people who want to know, do what is right and can also provide arguments why they do it.

Fast
Flexible
Effective
Demand-Driven



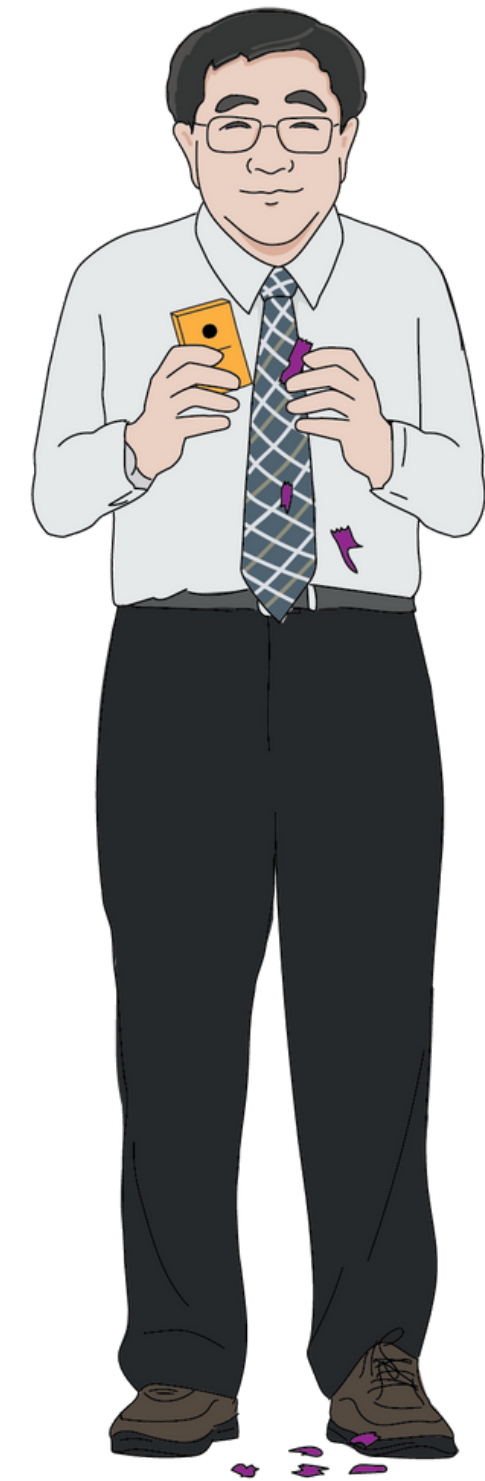
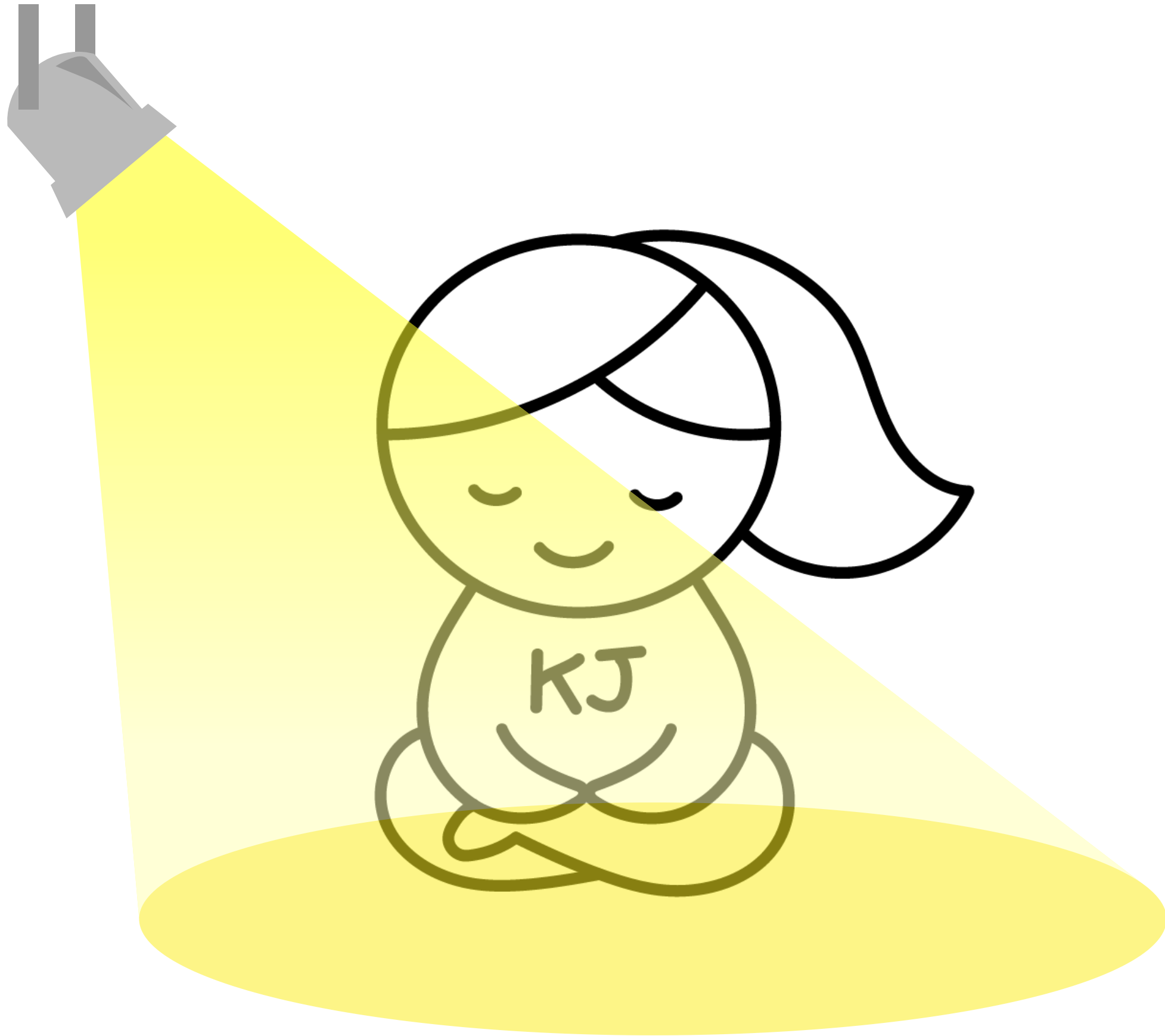
Online



NEW MODEL

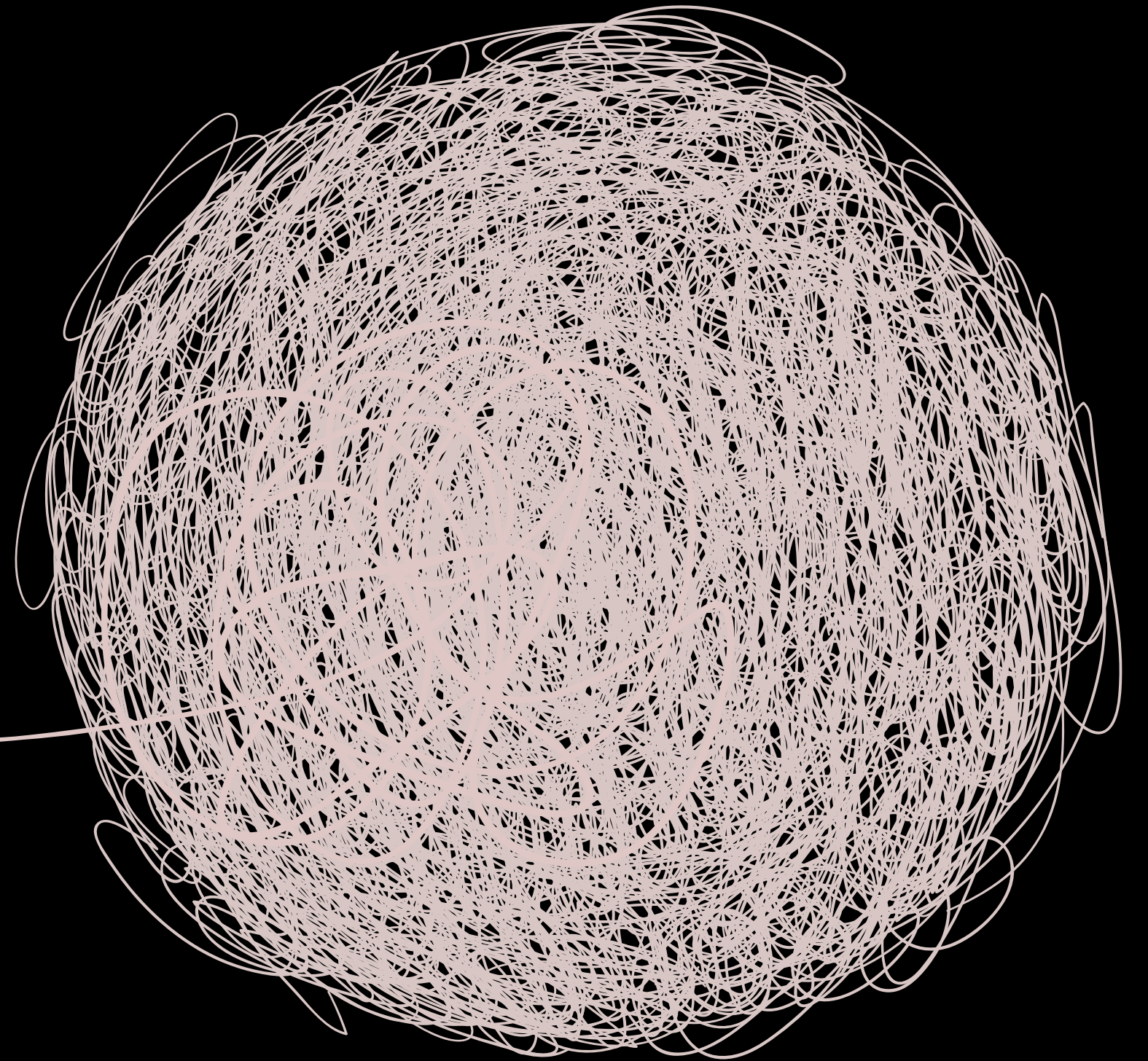




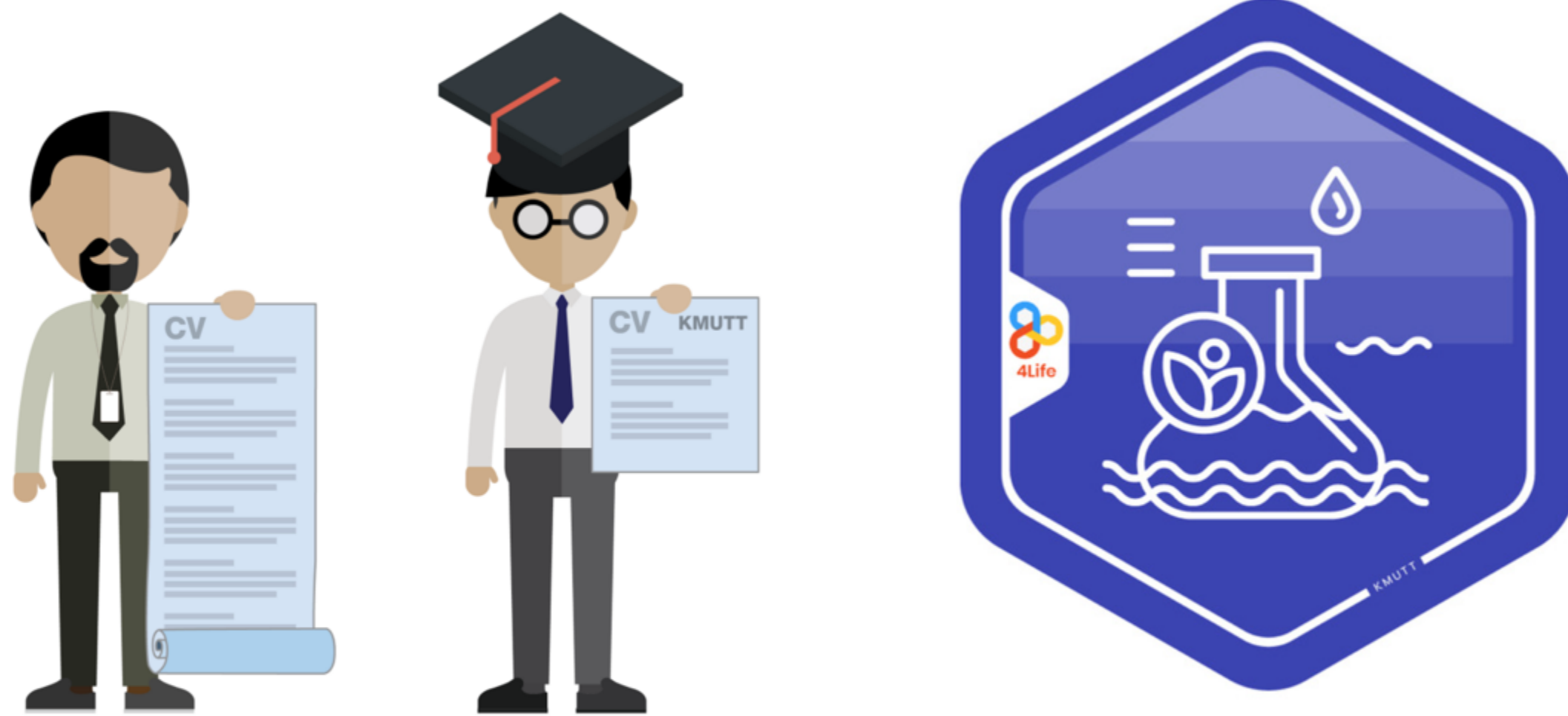


What we need to do first

**" We need to guarantee
learning outcomes "**

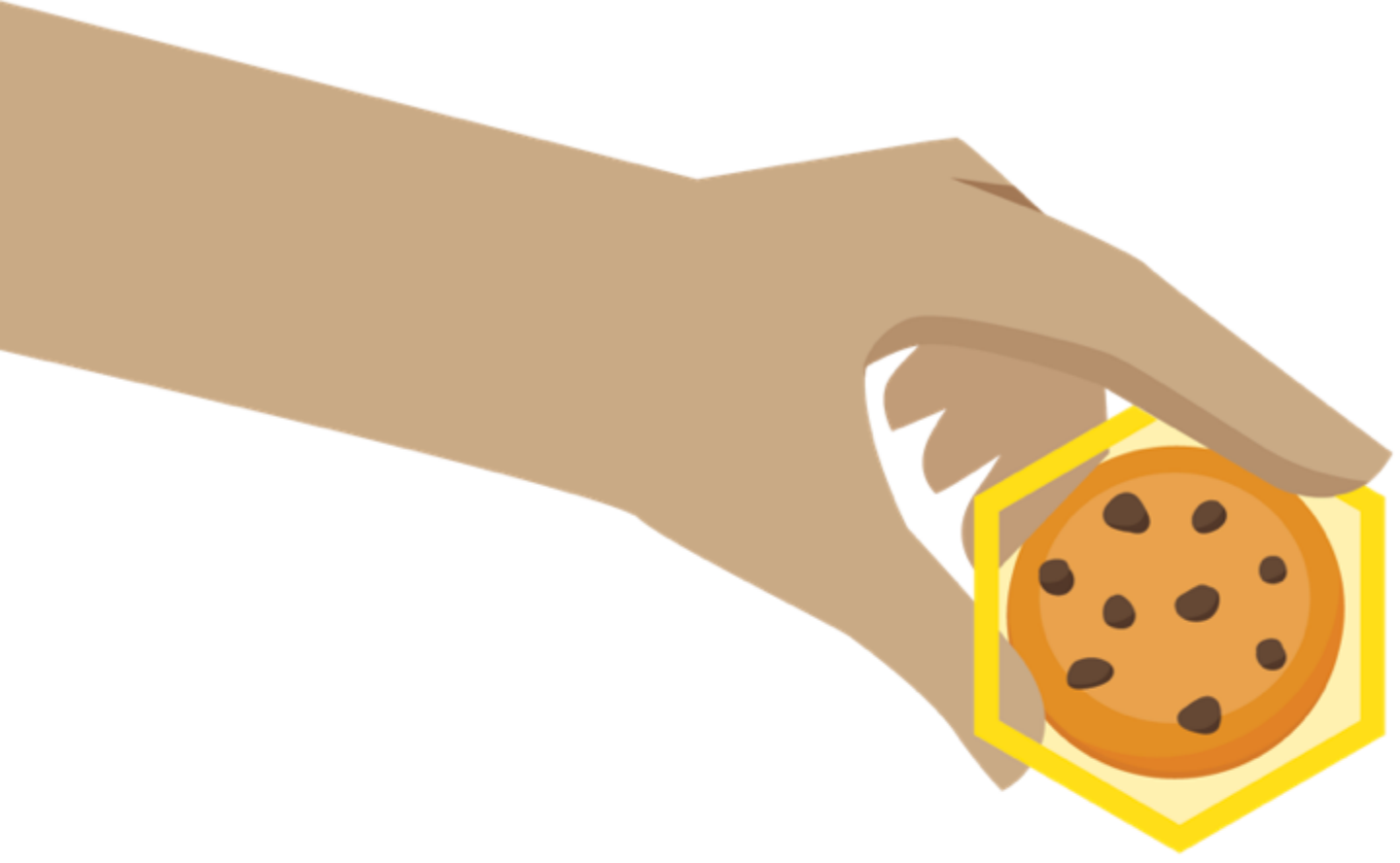






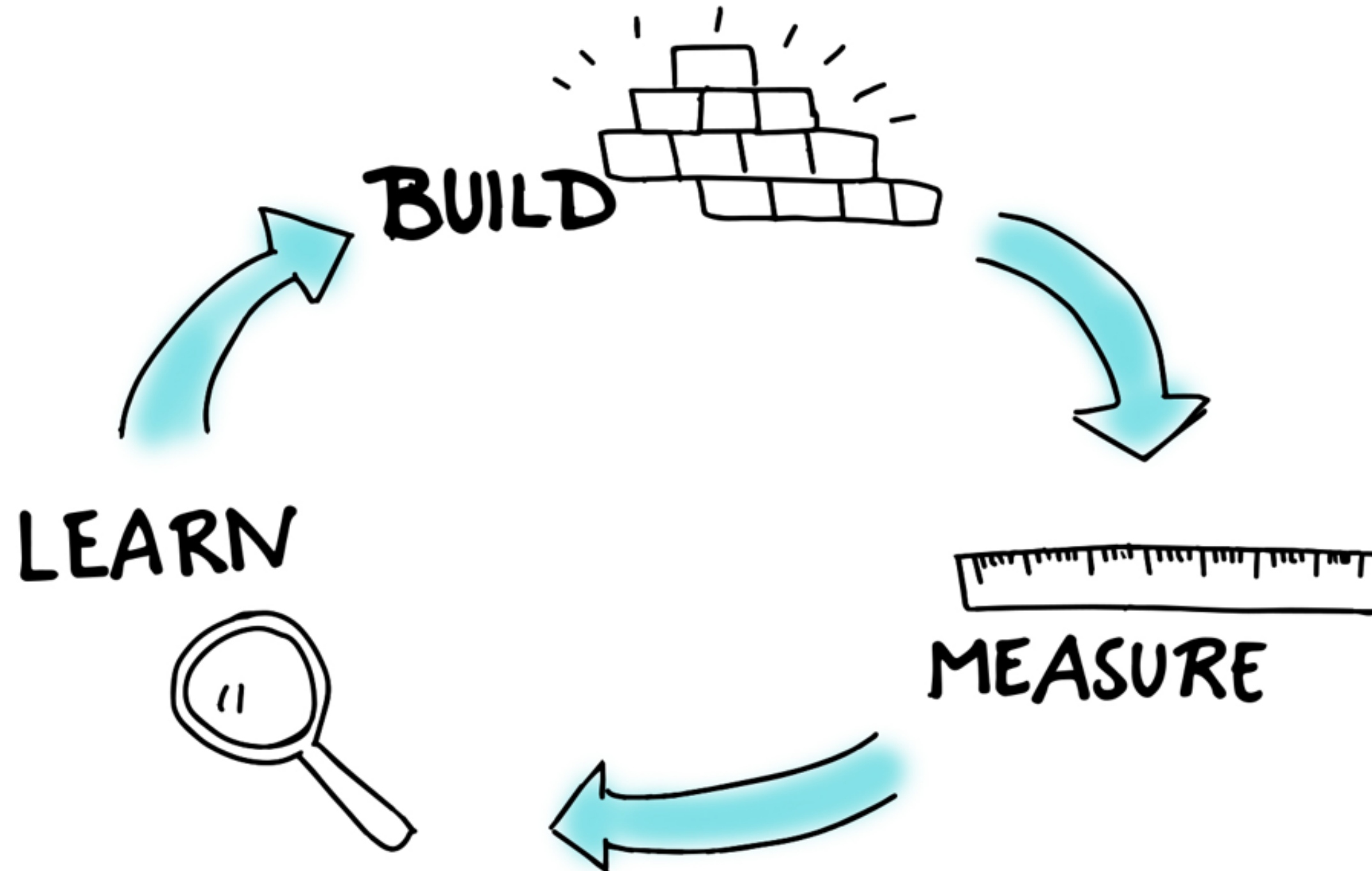
Education designed to keep up with the unpredictable future of work

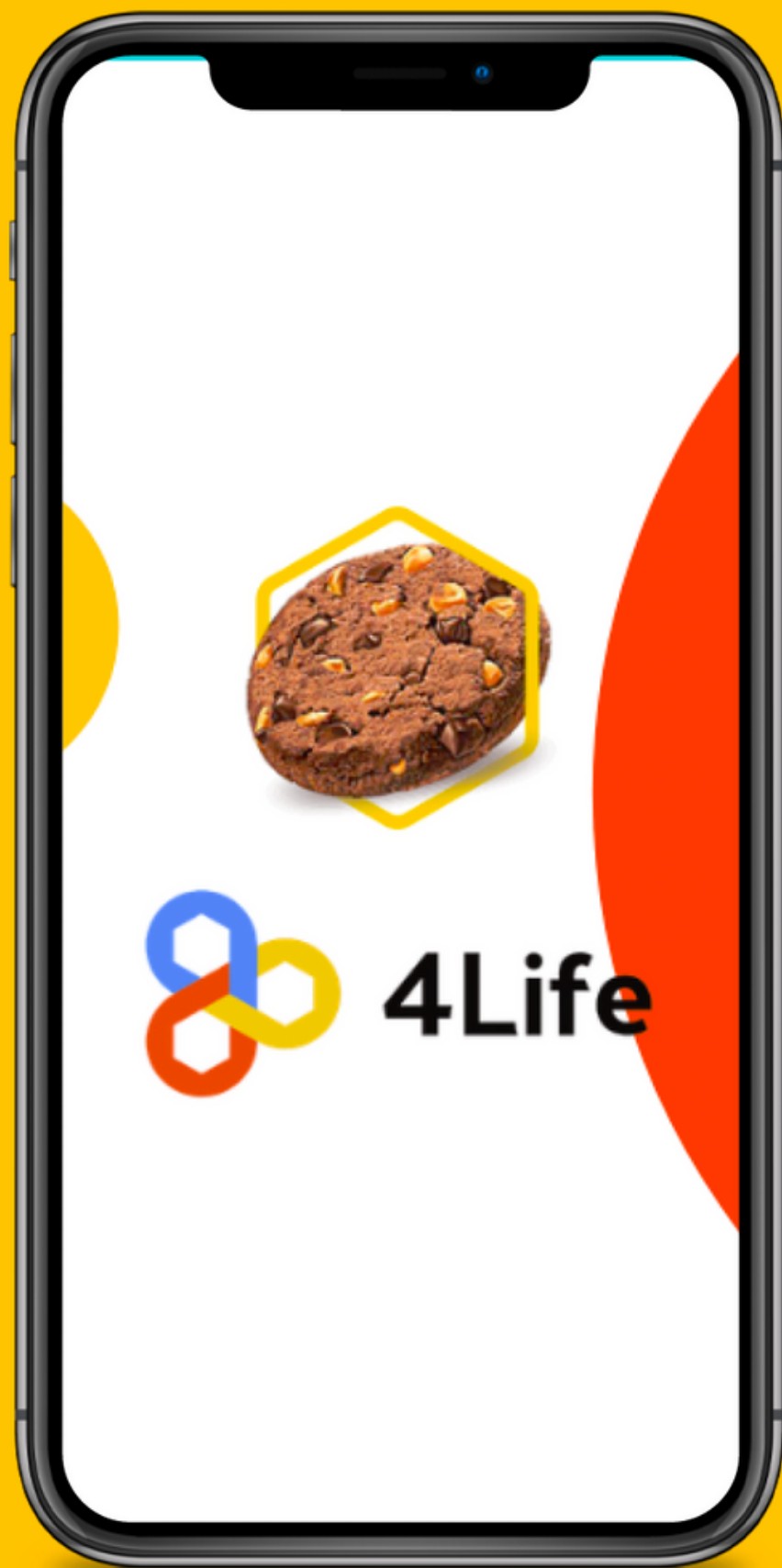
up skill, re-skill, re-skill again and again ...



Our directions

The way we are doing this





Small
Flexible
Non-Degree
Job Specific
Competency Based
Learning and Credentialing

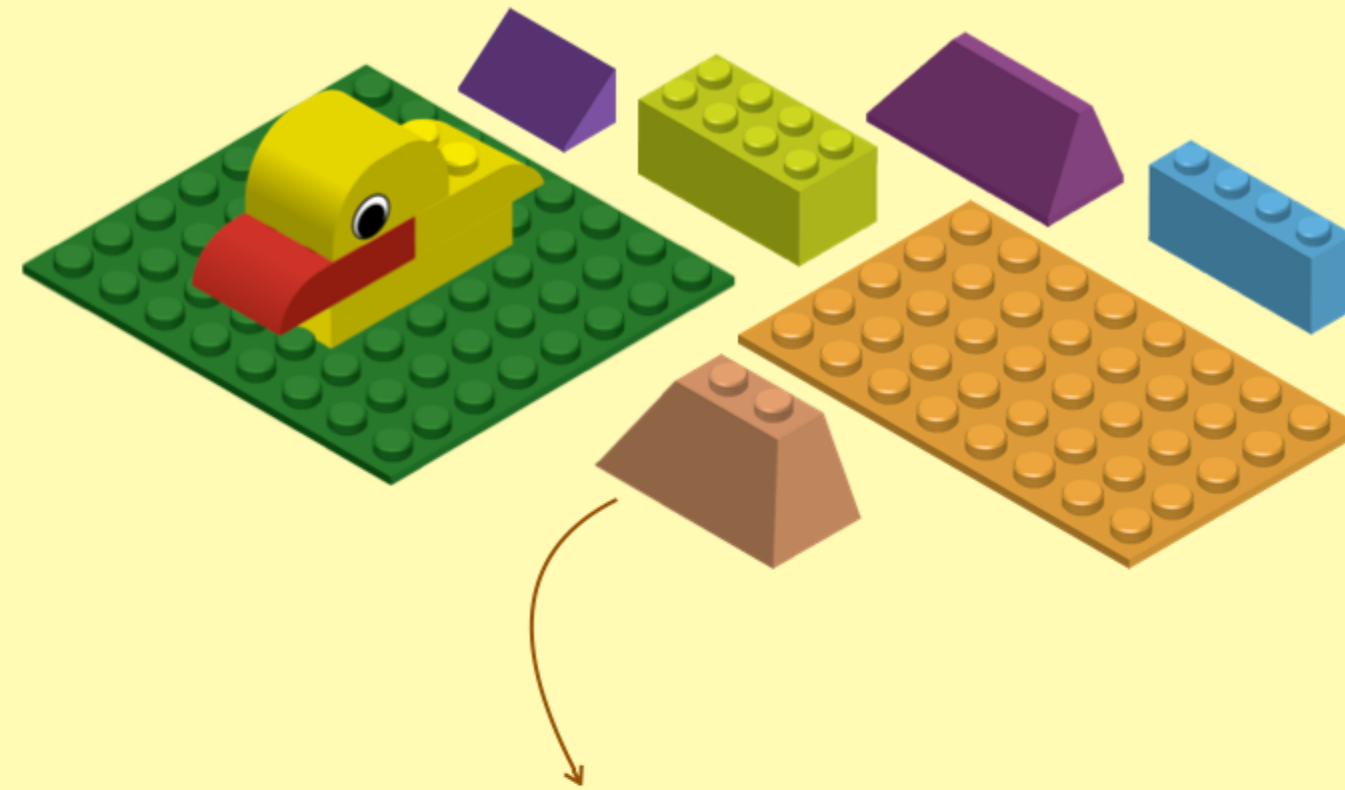
Kititouch A. - Developed for KMUTT4Life Project - Oct 2021



“The best predictor of how someone will perform in a job is a *work sample test*”

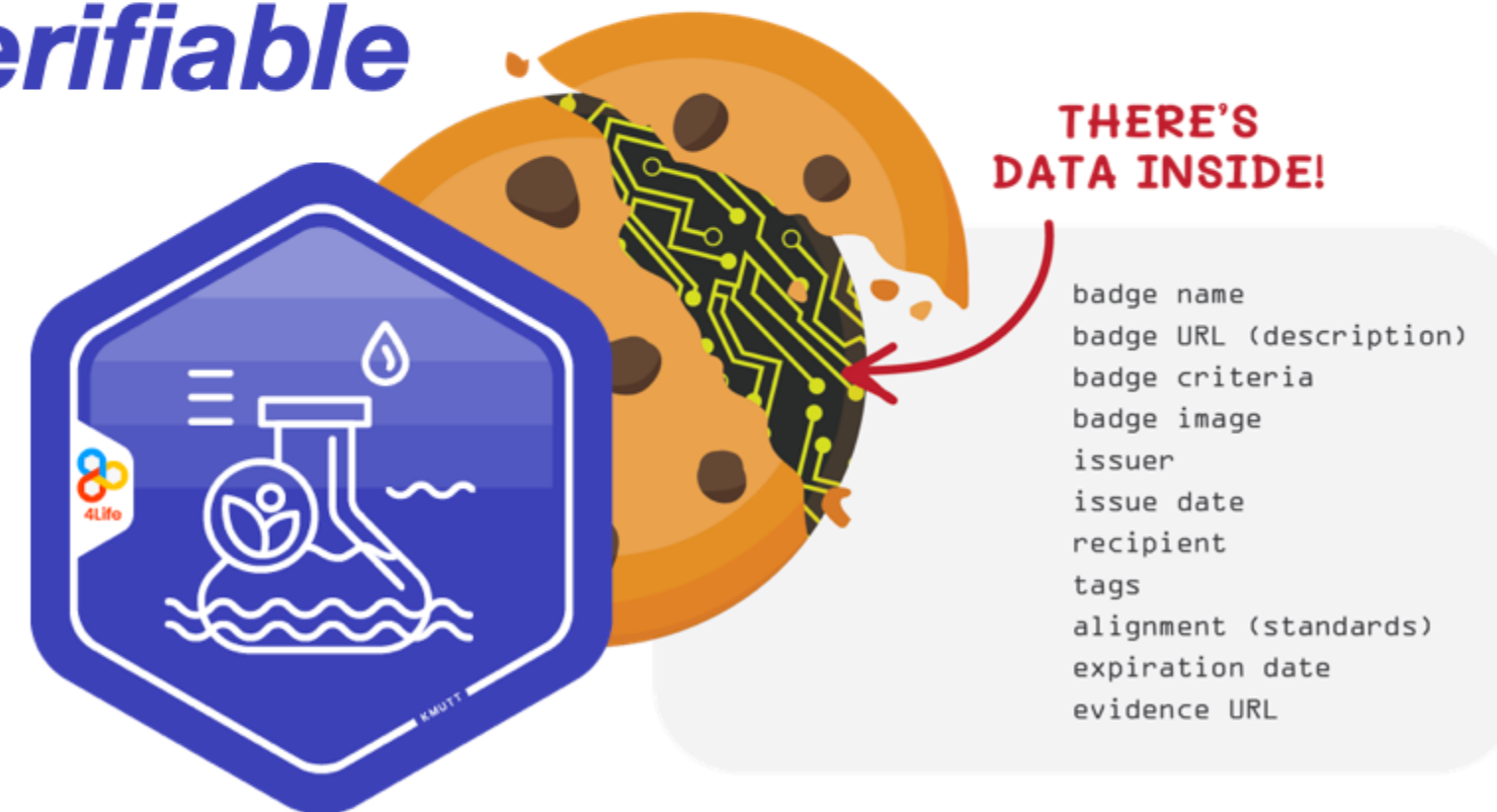
Laszlo Bock - Formerly the Senior Vice President of People Operations at Google

Stackable



Open Badges

Verifiable





2021 June

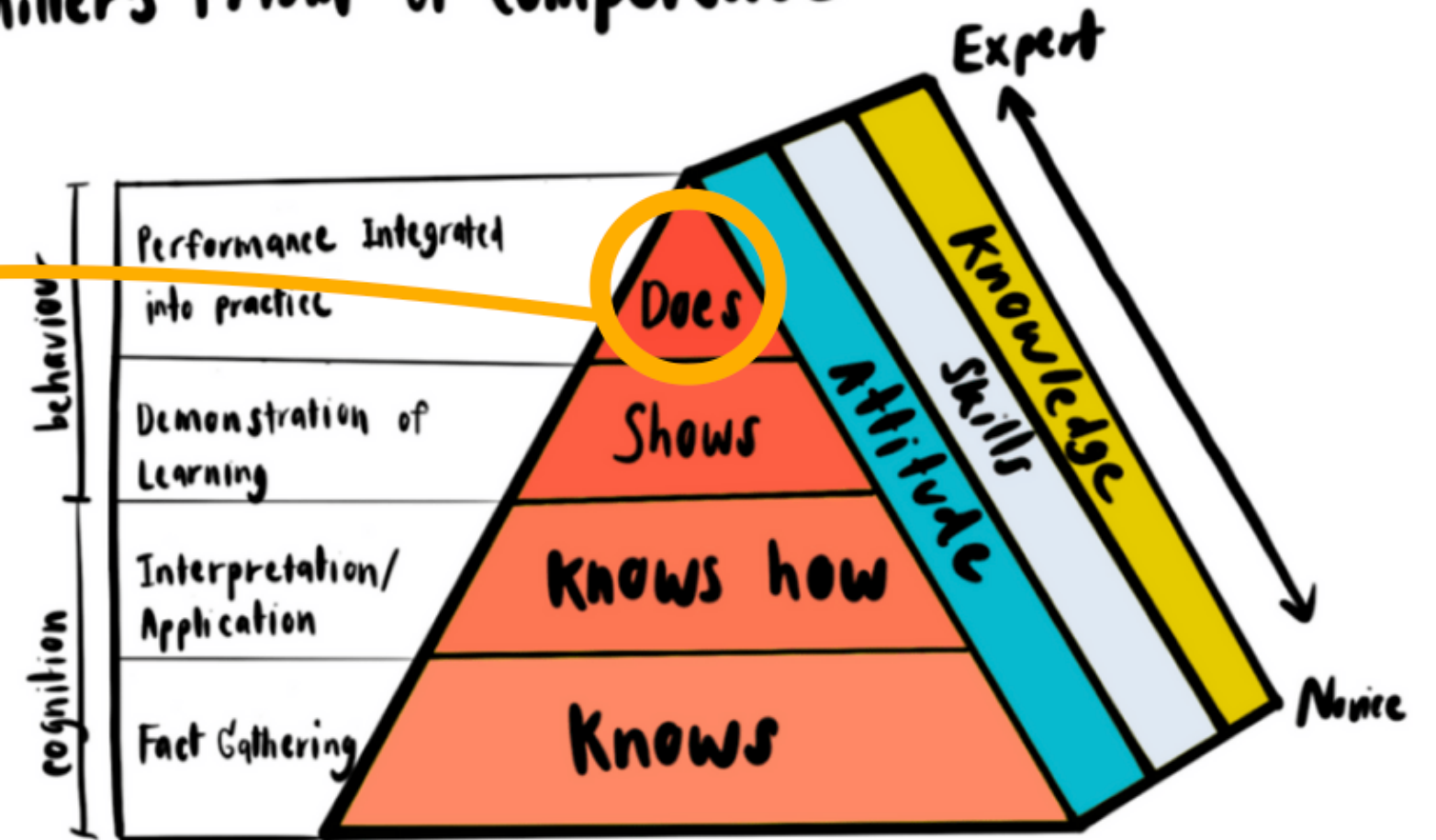
Focus on the 'does'



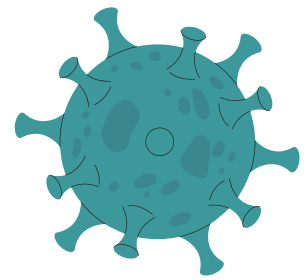
Digital Badge

Work samples, work place based assessment

Miller's prism of competence

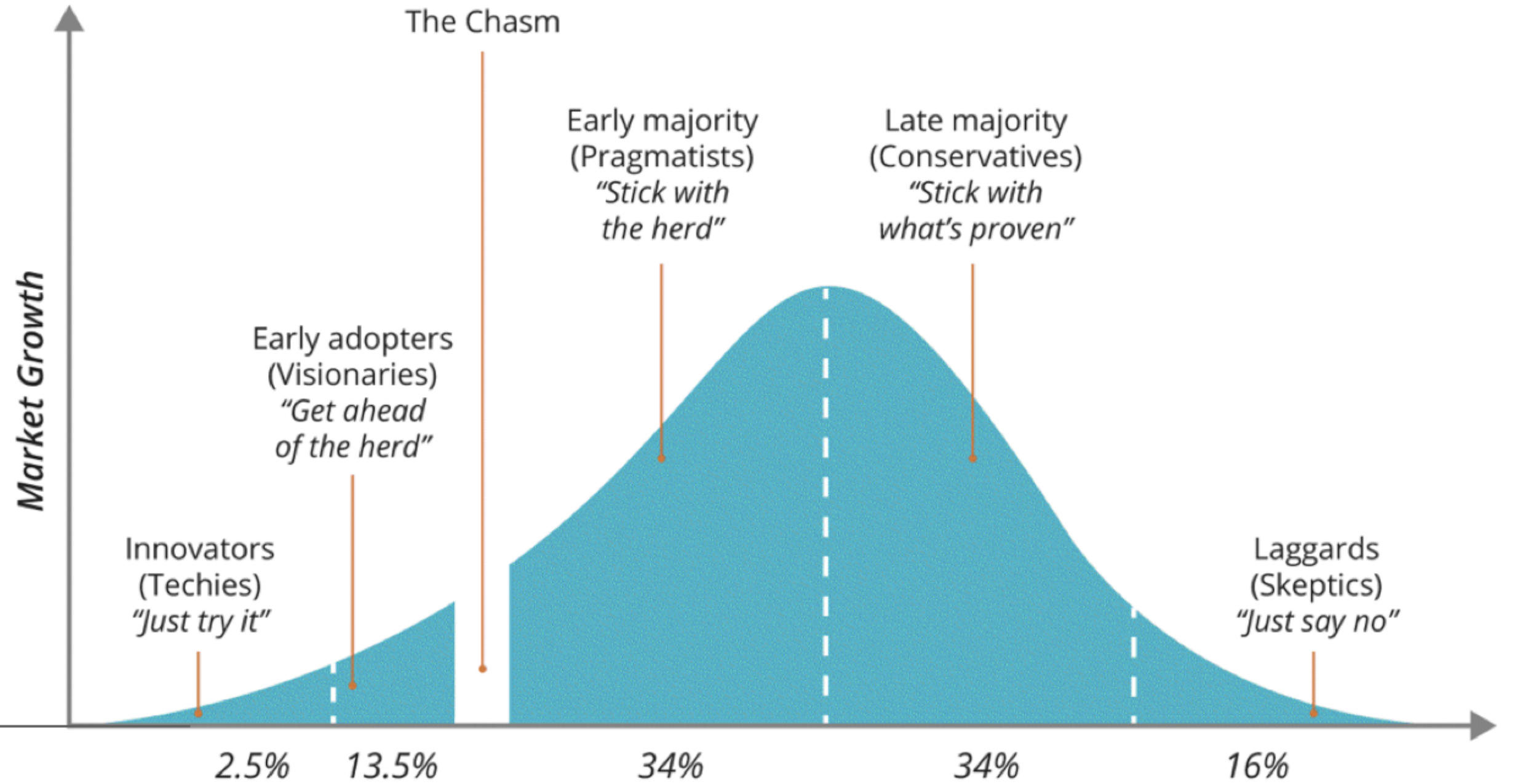


Credit: Saranporn P. - Developed for 4life Project 2021



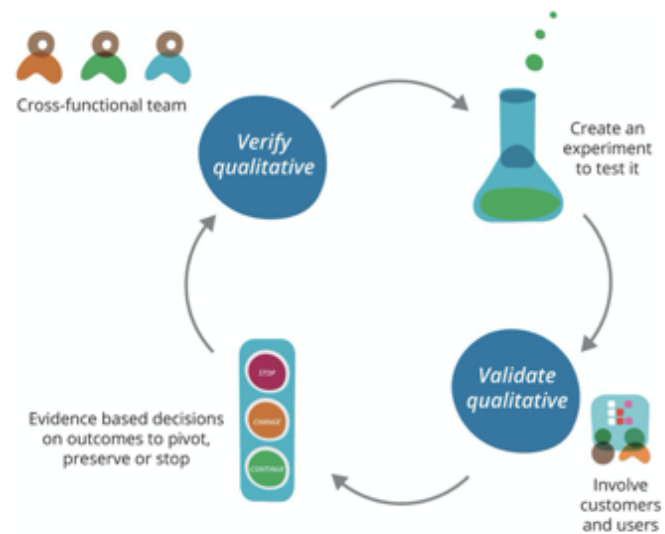
2019

MC



Explore

Exploit



MAKE A **BIG IMPACT**

Learning for Life with KMUTT Micro Credentials

มหาวิทยาลัยเชิงชุมชนทุกท่าน 'Make a BIG IMPACT by thinking small' และมาร่วมกันออกแบบระบบการศึกษาที่เอื้อต่อการเรียนรู้ตลอดชีวิตที่ตอบโจทย์ผู้เรียนในวัยทำงานอย่างแท้จริง

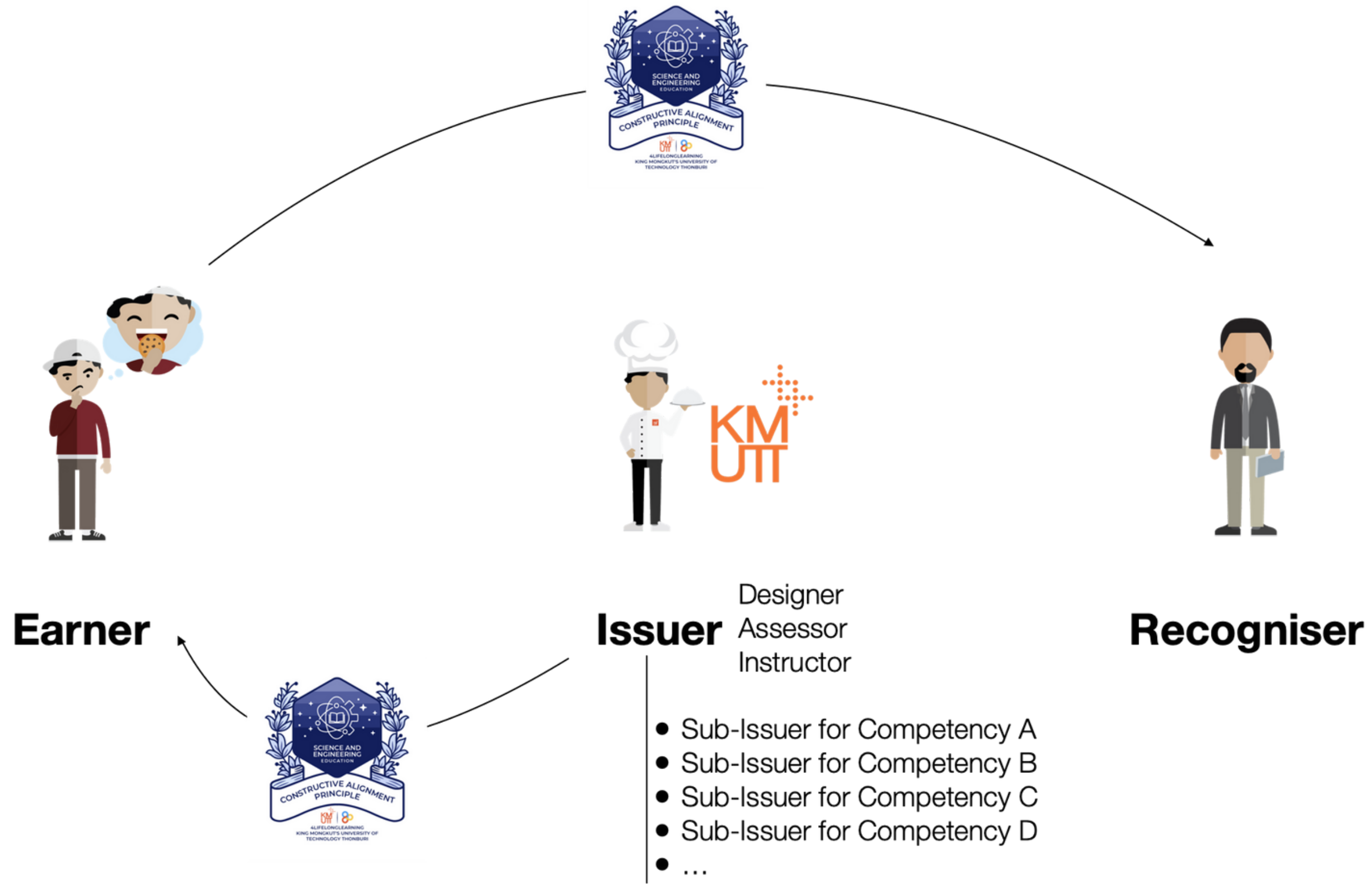


Jan 2020



Now

Micro-credential Eco-System



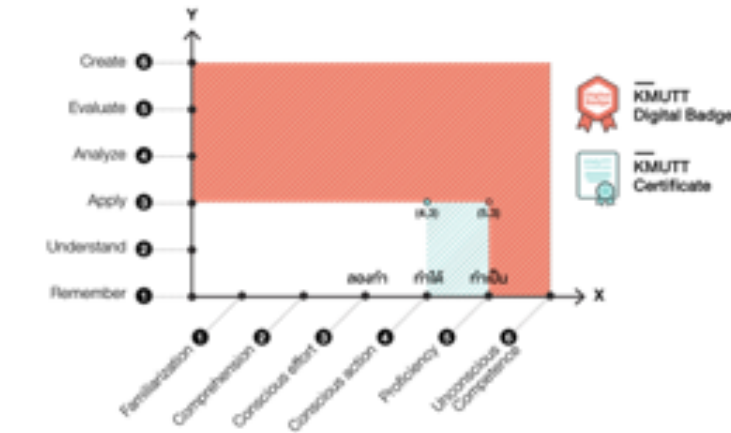


org/explore/providing-corrective-feedback-in-a-foreign-languag

TERMS OF USE | HELP CENTER



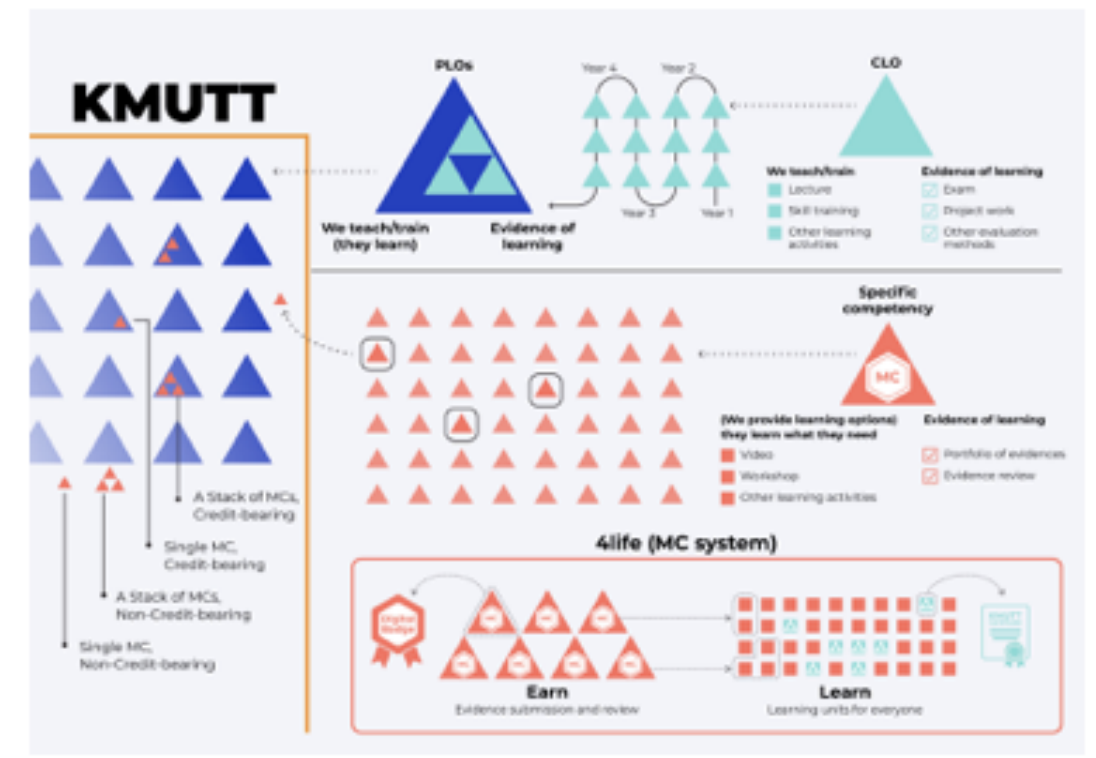
Proficiency & Conscious action



Digital Promise template:

- Title
- Competency
- Key Method
- Method Components
- Supporting Rationale and Research
- Resources
- Submission Guidelines and Criteria
 - Part 1: Overview Questions
 - Part 2: Work Examples/Artifacts/ Evidence and Scoring Guide
 - Part 3: Reflection (optional)

MCs in KMUTT OBE system



MC Design Guideline

Providing Corrective Feedback in a Foreign Language Classroom

Free [Apply](#)

Educators effectively provide corrective feedback to help learners improve their language learning in the classroom.

King Mongkut's University of Technology Thonburi
 Classroom Interactions

Key Method

The educator uses contextual information, such as classroom size, learners' first language, or age, to provide appropriate corrective feedback. This will help learners improve their language learning in the classroom. The educator will observe if there is any response to the feedback.

Method Components

Free [Apply](#)

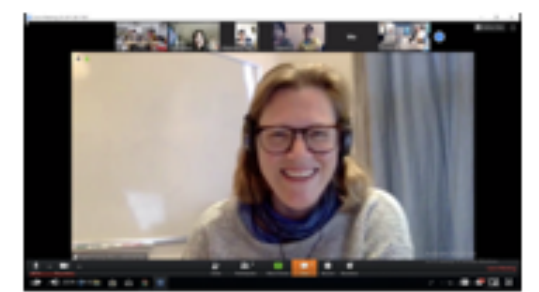
Educators effectively provide corrective feedback to help learners improve their language learning in the classroom.

King Mongkut's University of Technology Thonburi
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Method Components



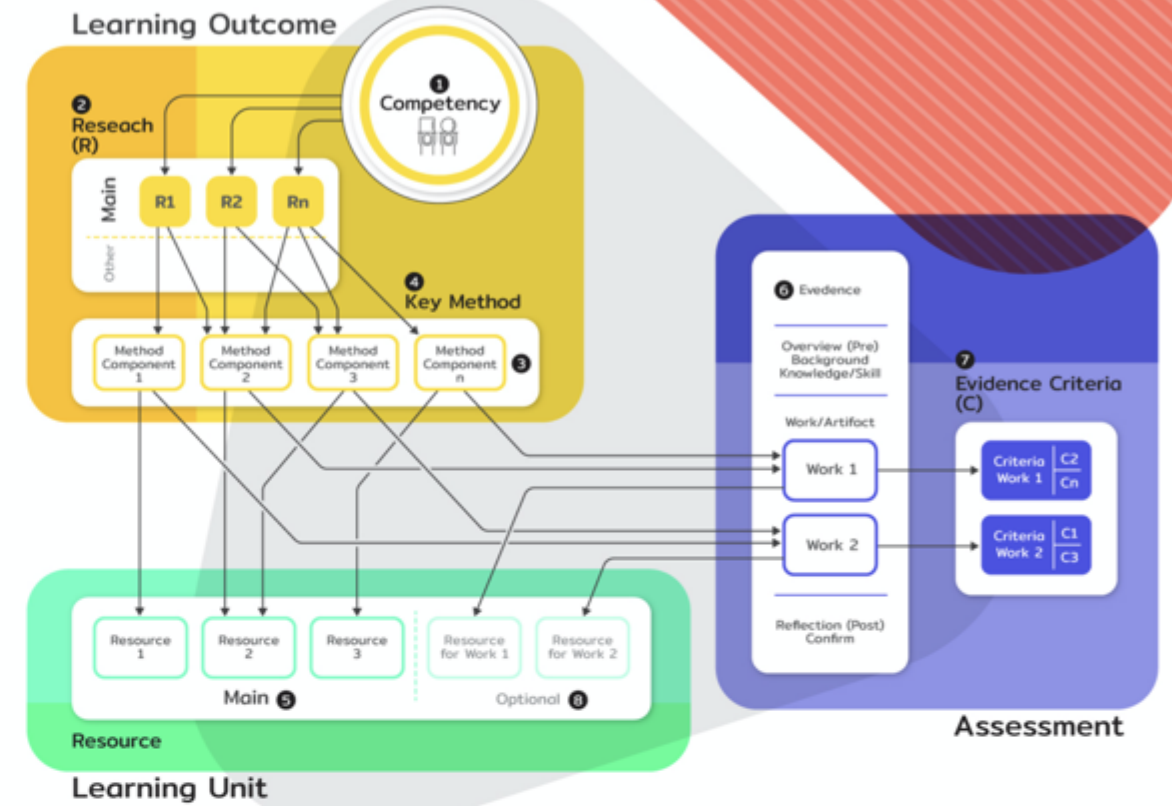
3 more coaching



2020 Feb



MC Design Component



4lifelonglearning.org/designer

for Designer

Continuous learning is a valuable tool in every path of life. Many people are not aware of their competency or what they are capable of doing. Don't you want to become a part of improving someone's life by helping them unleash their potentials?

We believe that meaningful learning does not have to be big and complex; scaling down the learning design could be the answer! Let's tackle the real-world problems, bring out your industry expertise, and help the world better. Join us and experience the incredible power of competency-based Micro-Credential today.

Turn it on, Power it up

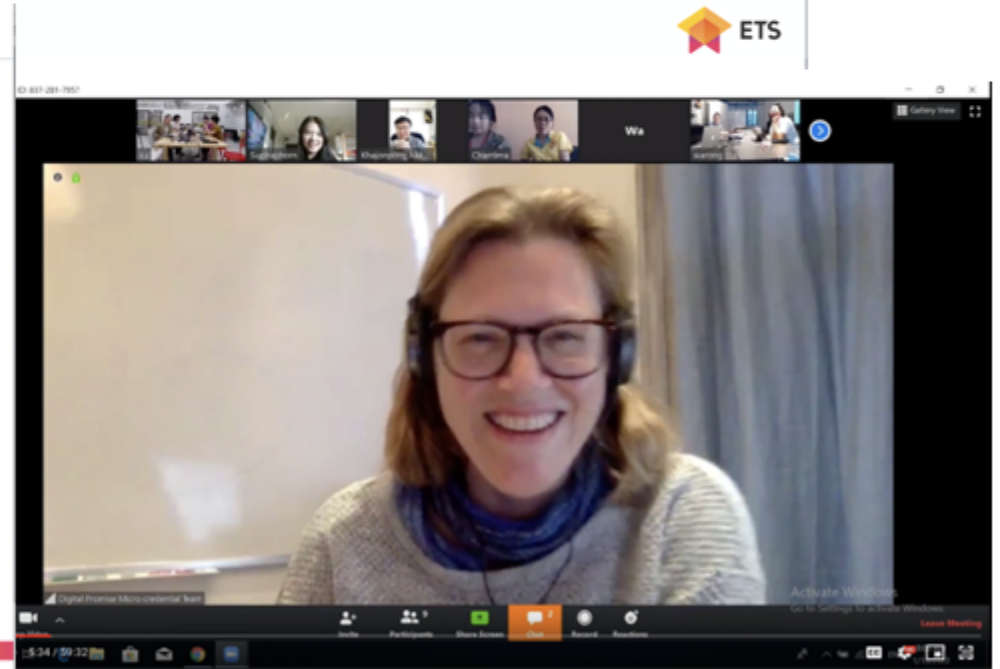
ETS Talk It Up! Let's make a big impact on life-long learning to unleash people's potential with Micro-Credential.

[Listen Now](#)

Discover

5 Steps for creating a Micro-credential | Digital promise | FAQ

[Support](#)



Recognizer Typologies: Personas

How recognizers are looking for talents

New Lean Biz/ Startups

Looking for...

Flexible Generalist

All rounded , flexible, agile and ready to change

Focus on



Modern Corp.

Looking for...

Modern Geek

Indept and broadbased knowledge, job-ready competencies, communicate well

Focus on



Conservative Corp./ Family Biz

Looking for...

Blank Canvas

Foundationanl knowledge, willingness to work and learn

Focus on





2020 Dec

Zoom Meeting 17:01 View

Assessor Training

Recording

	ETS KMUTT (Staff)		
	WANNACHORN CHAIDET		SURIYA NATSUPAKPONG

21

Machine Learning Problems

	Supervised Learning	Unsupervised Learning
Discrete	classification or categorization	clustering
Continuous	regression	dimensionality reduction

Working with Educators





2021 March



Specific competency

How/ what method (Research backed)

Real-world Evidences of competency

Performance Level



- o Articulating the learning outcome
- o Design performance criteria rubric for evidence assessment
- o Measure the effectiveness of their pedagogical approaches

4Life Mr. Love Learning

Providing Corrective Feedback in a Foreign Language Classroom

SCIENCE AND ENGINEERING COMMUNICATION

Apply

Details

Key Method

Method Components

Research & Resources

Submission & Evaluation

Part 1: Overview

Assessment Rubric (Hide)

Section 1	Passing	Not Passing

Part 2: Work Examples / Artifacts

Assessment Rubric (Show)

Part 3: Reflection

Assessment Rubric (Show)

ISSUING ORGANIZATION

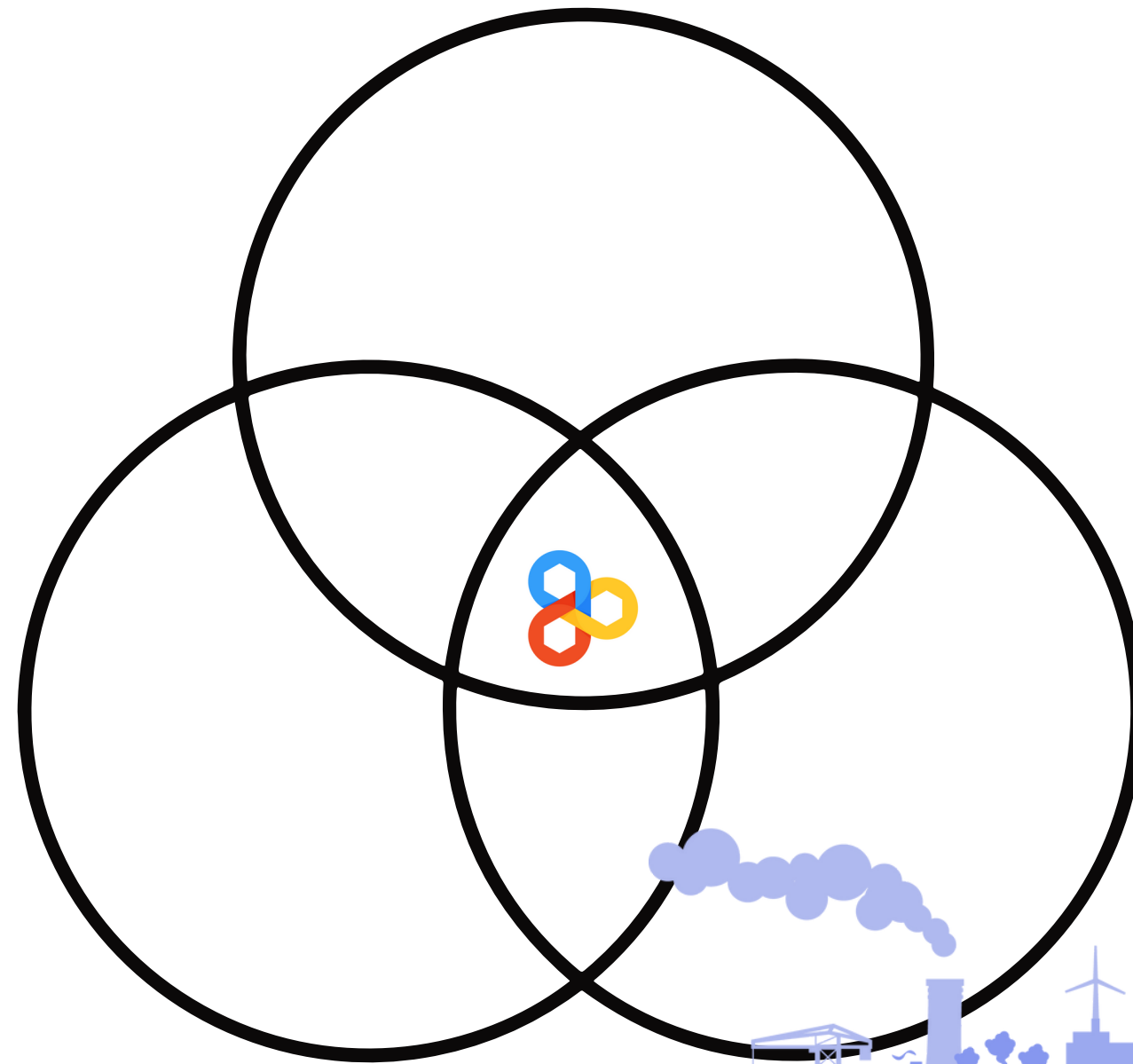
King Mongkut's University of Technology Thonburi

KMUTT King Mongkut's University of Technology Thonburi, KMUTT, fosters engineering leaders through hands-on learning, education innovation, real-world research, and entrepreneurship. We create and drive changes for a strong and sustainable global society.

Visit Website



To guarantee learning outcome
Effective Assessment



To make learning possible
affordable, self-paced



To be flexible to change in
demand



Hands-on skills building for your future career.

Unleash your potential and become talents via personalized Micro-credentials (MCs) delivered by industry experts.

EXPLORE COMPETENCIES





การสร้าง Product Mindset

ท่ามกลางสภาพแวดล้อมของสตาร์ทอัพที่มีการเปลี่ยนแปลงอยู่ตลอดเวลา ความได้เปรียบจะเป็นของผู้ที่มีแนวความคิดที่ถูกต้อง ผู้ที่เติบโตด้วยความไม่แน่นอน และผู้ที่มี Product Mindset โดย MC นี้ ได้นำเสนอพื้นฐานของ Product Mindset ทั้งหมด 4 แ...

VERIFY / LEARN Start at 1,000 THB



Effectively Motivate Subordinates

Have you properly motivated your subordinates or employees to meet their needs? The progress and success of an organization is not solely dependent on one person. One of the key factors that...

VERIFY FREE



C Programming for Graphics and Games Programmers

Learners can apply C language programming to develop game programming and graphics.

VERIFY FREE



การจัดระเบียบข้อมูล (Data Wrangling)

Micro - Credential นี้ ที่จะนำพาคุณสู่ก้าวแรกของการใช้ประโยชน์จากข้อมูล "การจัดระเบียบข้อมูล (Data Wrangling)" เพื่อเตรียมข้อมูลของคุณให้พร้อมปรับเปลี่ยนรูปแบบและโครงสร้างข้อมูลให้อยู่ในรูปแบบที่พร้อมสำหรับ...

VERIFY FREE



Dynamic Web-Page for Data Display and Control with Industrial Application

Learners can create responsive web-page for industrial scenarios through basic web-page programming.

VERIFY FREE



Developing a Geometric Transformation Math Library

This MC provides recognition for an individual's expertise and serves as validation of their skills to potential employers and peers in the field. It assesses an individual's knowledge and...

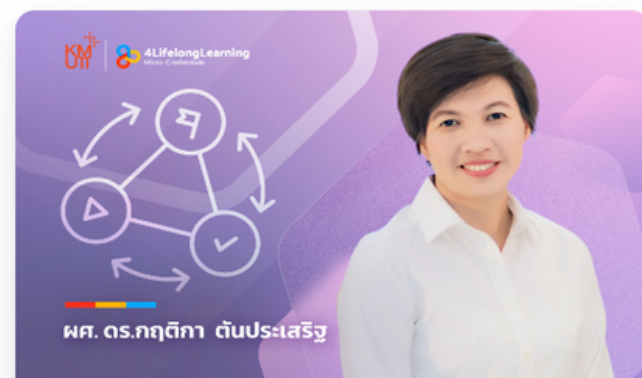
VERIFY FREE



Giving an English Presentation in Tech-Related Contexts

With technology playing a major role in most industries, it is important to be able to communicate complex technical concepts in a clear and concise manner. This presentation skill will help you...

VERIFY FREE



Constructive Alignment Principle Application for Learning Units

This MC will help you improve the overall quality of a course by ensuring that all elements of the learning experience are aligned with the course goals and objectives. With the application of the...

VERIFY FREE



Using Formative Assessment Strategies to Facilitate Student Learning

Formative assessment is an active learning and assessment process that involves both the teacher and the students to gather evidence of learning. Formative assessment provides feedback...

VERIFY FREE



Biodiesel Production from Lipid Extraction or Waste Cooking Oil

 SHARE  BADGE  EMAIL  EMBED  HELP MORE ▾

[Sign in to access more options](#)

 **Jordan Smith**
[View All Credentials](#)

 **KMUTT** 
[Issuer's Website](#) | [More Credentials](#)

Earned is able to produce biodiesel from lipid extraction or waste cooking oil

ISSUED ON
May 3, 2021

EXPIRES ON
Does not expire

SKILLS / KNOWLEDGE

Waste management Biofuel Biodiesel

SHARE YOUR ACHIEVEMENT!



VERIFY

 Verified Issuer

ISSUER'S OTHER CREDENTIALS

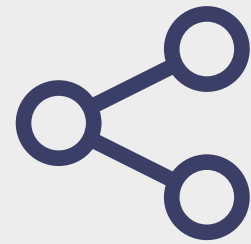
[Identifying Your Leadership Strengths](#)

[Applying TPACK Framework to Facilitate the Achievement of Learning Outcomes](#)

[Providing Corrective Feedback in a Foreign Language Classroom](#)

[All KMUTT credentials](#)

Share badge



The screenshot shows a LinkedIn profile for Kuncharee Pimpin. At the top, the LinkedIn logo is on the left, and navigation links for 'Discover', 'People', and 'Learning' are on the right. The profile header features a blue background with a network pattern and a circular profile picture of Kuncharee Pimpin. Below the picture, the name 'Kuncharee Pimpin' is displayed, followed by her title 'Scrum Master Micro-credentials Design team at King Mongkut's University of Technology Thonburi' and location 'Bangkok, Bangkok City, Thailand'. It also shows '3 followers · 2 connections' and a blue button that says 'Join to view profile'. To the right of the profile information, two red 'KMUTT' logos are listed, each followed by the text 'King Mongkut's University of Technology Thonburi'. Below the profile section, the 'Activity' section is visible, showing three posts. The first post features a grid of six profile pictures and the text 'Millions of Americans learn their skills on the job, in community colleges, at bootcamps, or through life experience. According to Opportunity@Work... Liked by Kuncharee Pimpin'. The second post shows the purple share badge icon and the text '#microcredentials #techentrepreneurs Shared by Kuncharee Pimpin'. The third post shows a city skyline image and the text 'Discover how Thailand's energy needs of tomorrow are being met today. Sign up to the Exxchange newsletter. Liked by Kuncharee Pimpin'.

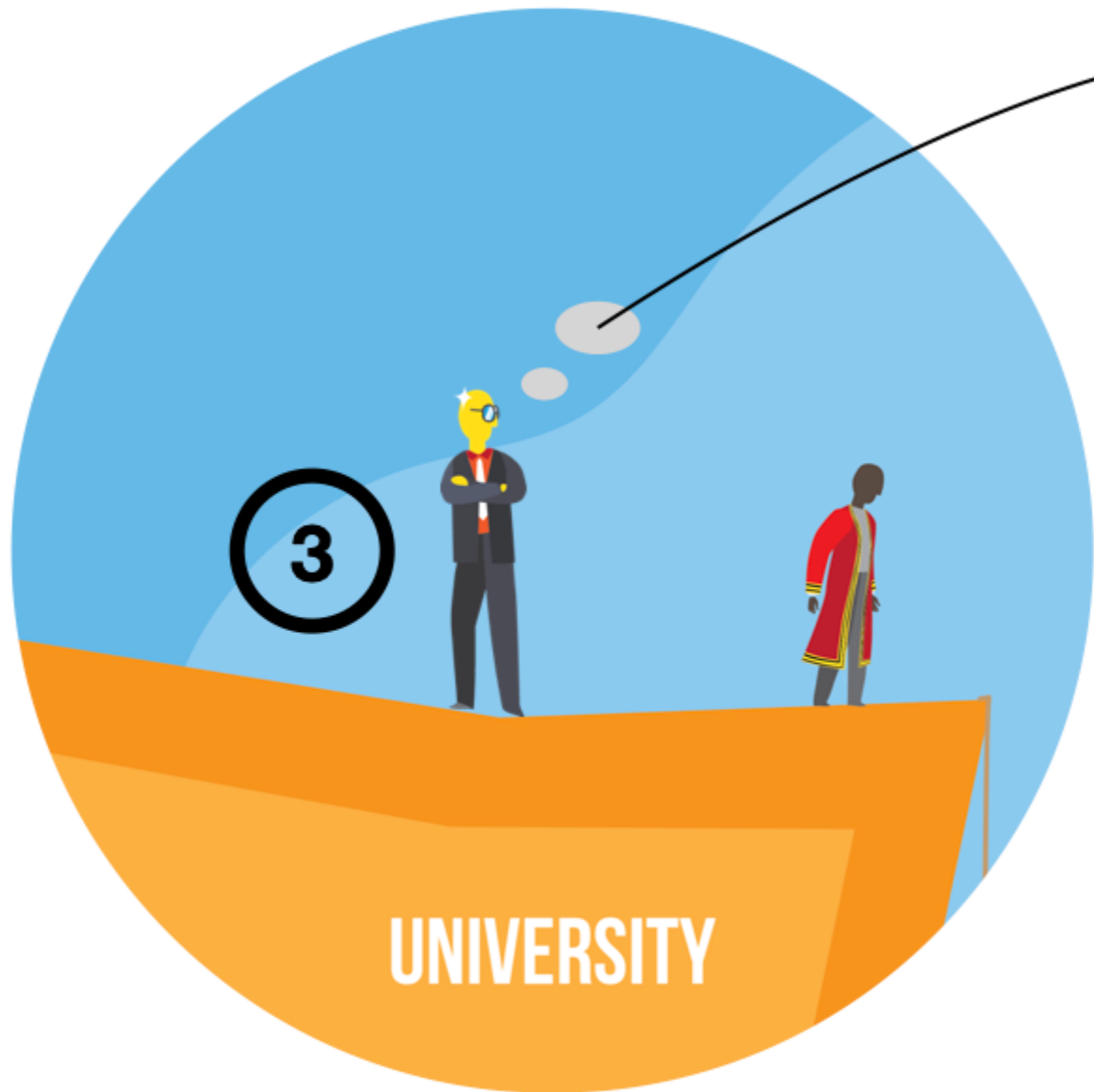


2022 July

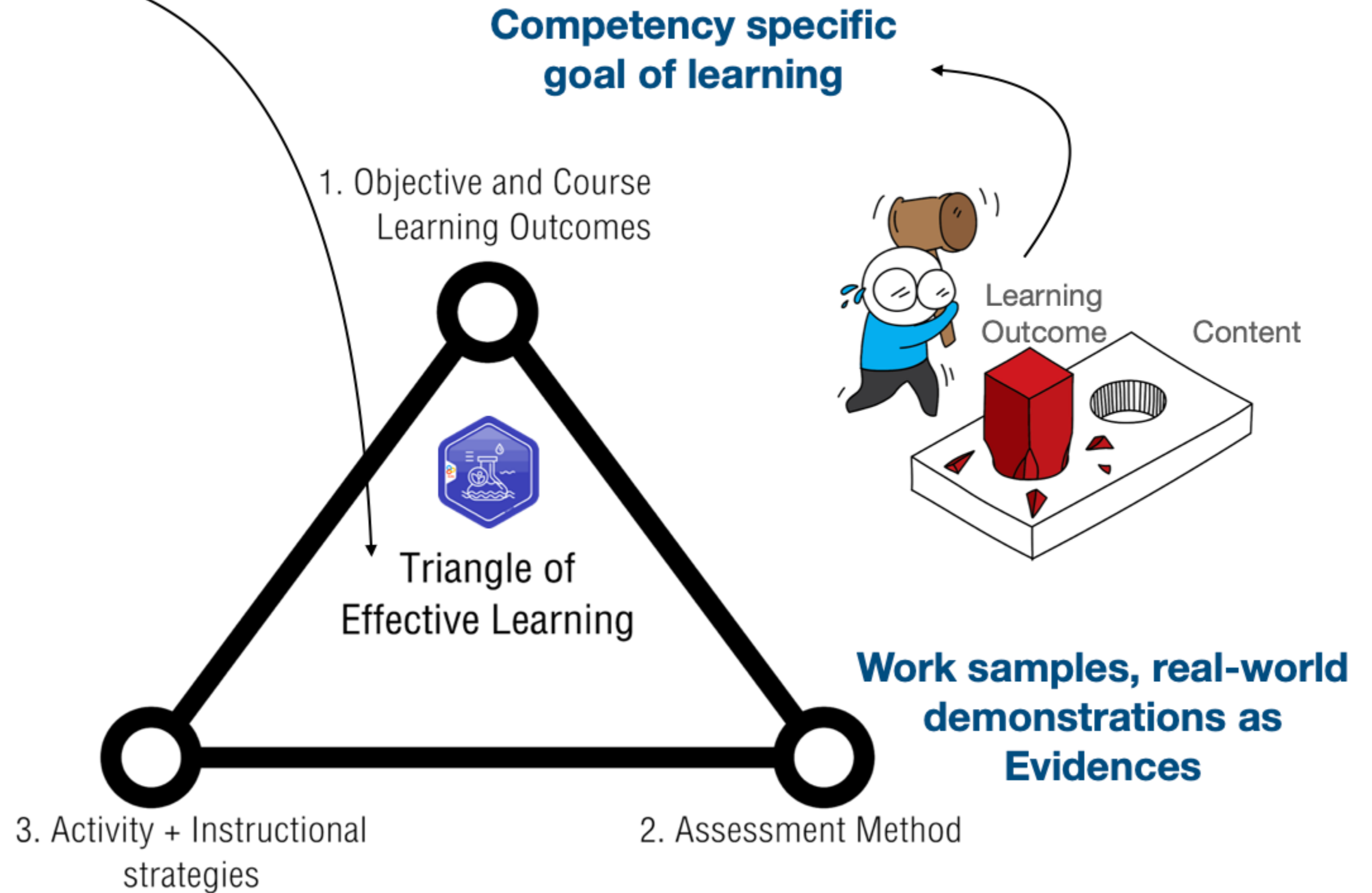
How many?



The Teacher



Practical and effective pedagogy for more/all segments of learners



The recognisers

Let's co-design Micro-credentials!

Competency Specific Job Ad



Open for
New
Position

Find
Candidate

Quick
Interview
(Screening)

Assign
Case

Interview



Competency Screening

Competency Verification



Evaluate/ Identify



Probation

Evaluation

Promote/
Rotate

Development

Talent
Identification

...



Competency Development

Job ready competency
(Specific and dynamic)

2



We are hiring
We are not finding

BUSINESS

Recruitment Journey

People Development



A Traditional Program

VS



What learner wants

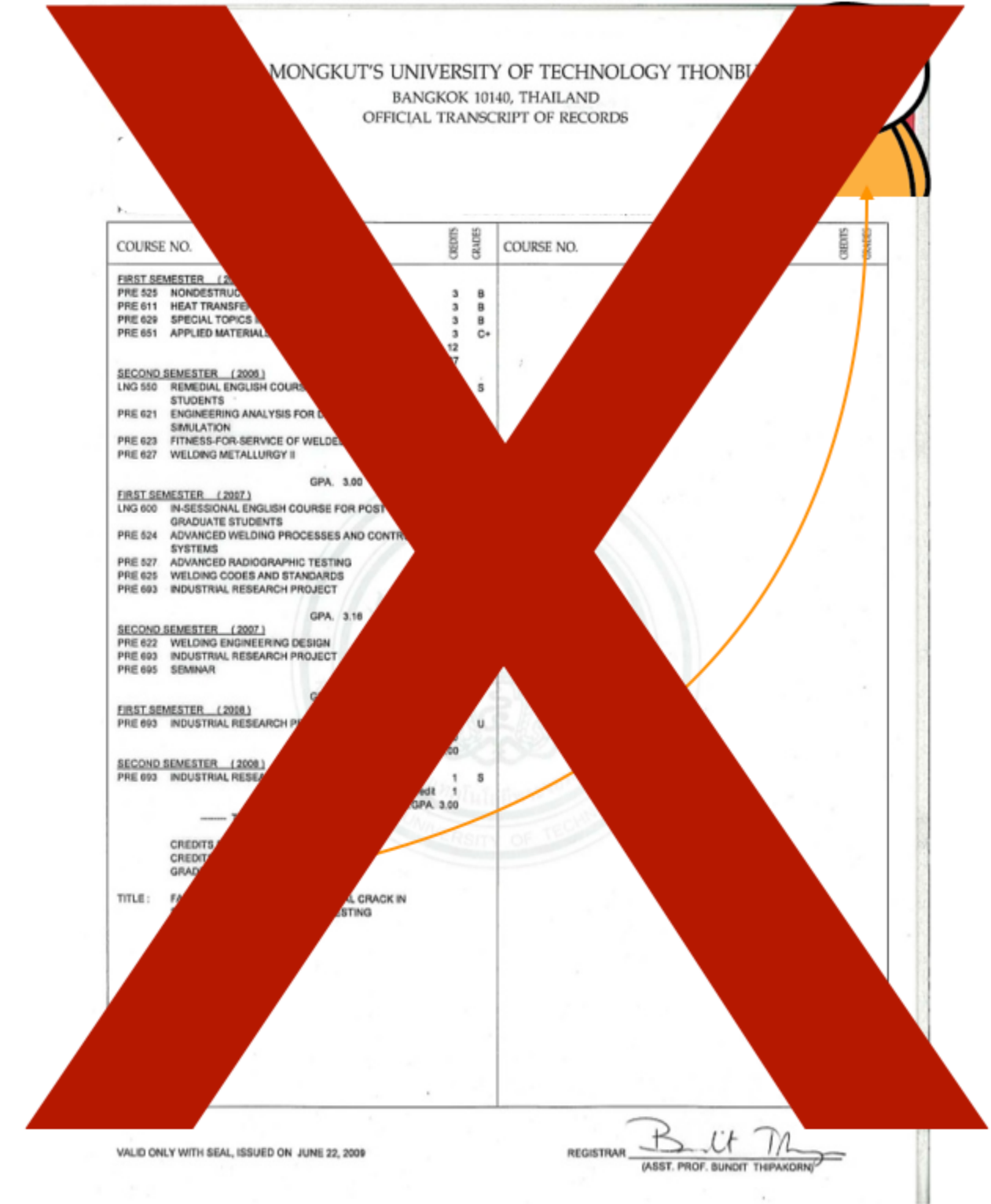


Our Learners

1



Education for life for All



MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI
BANGKOK 10140, THAILAND
OFFICIAL TRANSCRIPT OF RECORDS

COURSE NO.	CREDITS	GRADES	COURSE NO.	CREDITS	GRADES
FIRST SEMESTER (2008)					
PRE 525 NONDESTRUCTIVE TESTING	3	B			
PRE 611 HEAT TRANSFER	3	B			
PRE 629 SPECIAL TOPICS IN WELDING	3	B			
PRE 651 APPLIED MATERIALS	3	C+			
SECOND SEMESTER (2008)					
LNG 550 REMEDIAL ENGLISH COURSE FOR POSTGRADUATE STUDENTS	5	S			
PRE 621 ENGINEERING ANALYSIS FOR DESIGN AND SIMULATION					
PRE 623 FITNESS-FOR-SERVICE OF WELDED JOINTS					
PRE 627 WELDING METALLURGY II					
GPA: 3.00					
FIRST SEMESTER (2007)					
LNG 600 IN-SESSIONAL ENGLISH COURSE FOR POSTGRADUATE STUDENTS					
PRE 624 ADVANCED WELDING PROCESSES AND CONTROL SYSTEMS					
PRE 627 ADVANCED RADIOGRAPHIC TESTING					
PRE 625 WELDING CODES AND STANDARDS					
PRE 693 INDUSTRIAL RESEARCH PROJECT					
GPA: 3.19					
SECOND SEMESTER (2007)					
PRE 622 WELDING ENGINEERING DESIGN					
PRE 693 INDUSTRIAL RESEARCH PROJECT					
PRE 695 SEMINAR					
GPA: 3.00					
FIRST SEMESTER (2006)					
PRE 693 INDUSTRIAL RESEARCH PROJECT					
GPA: 3.00					
SECOND SEMESTER (2006)					
PRE 693 INDUSTRIAL RESEARCH PROJECT					
GPA: 3.00					
CREDITS: 12					
CREDIT: 12					
GRADUATION: 12					
TITLE: FAVORABLE EFFECT OF CRACK IN WELDING JOINTS					

VALID ONLY WITH SEAL, ISSUED ON JUNE 22, 2009

REGISTRAR *B. U. T.*
(ASST. PROF. SUNDTI THAPAKORN)

UNIVERSITY

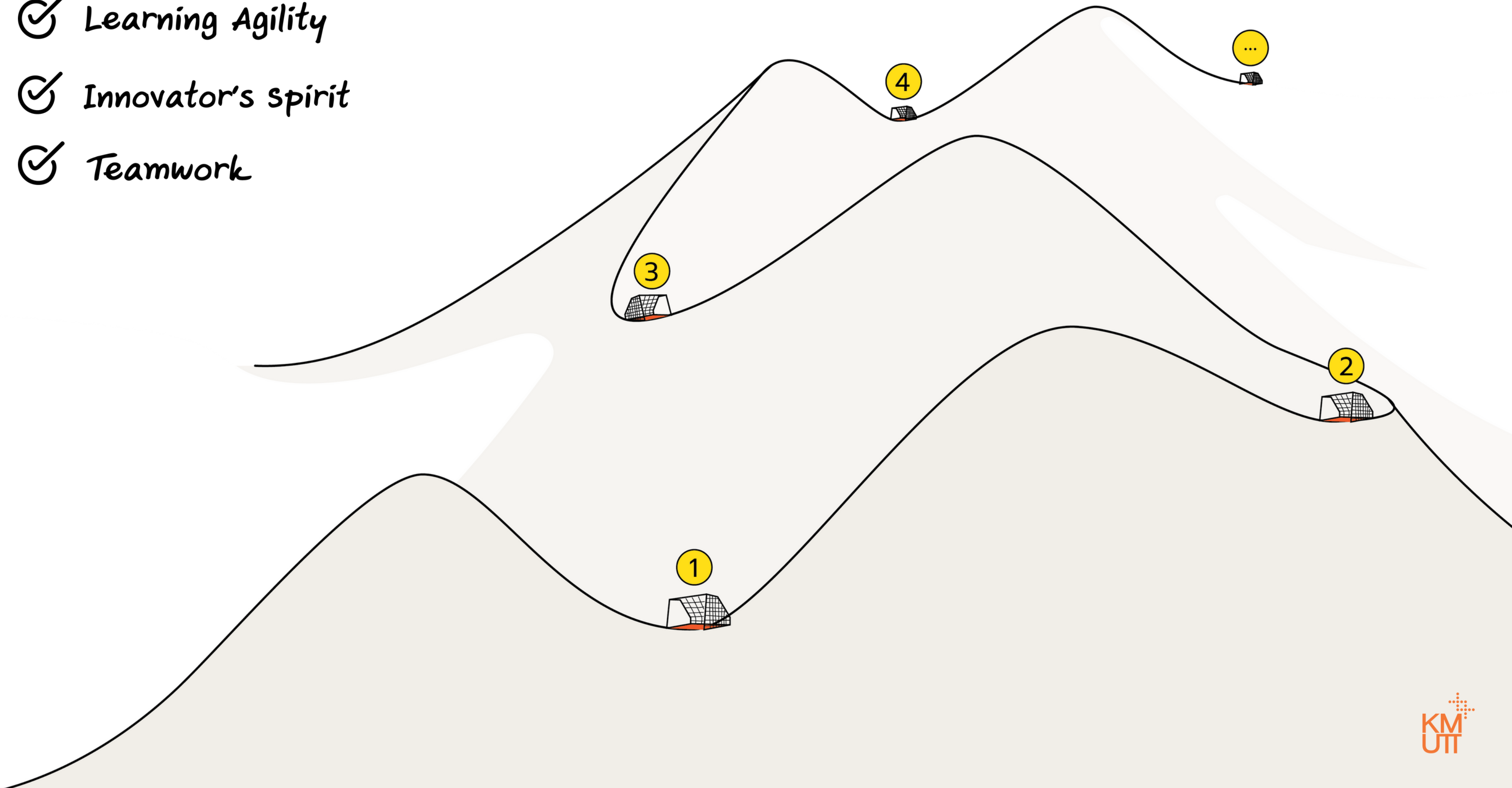
BUSINESS

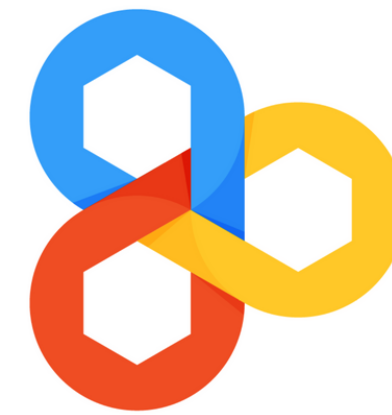


✓ Learning Agility

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Thank you!

Do you have any questions?

