

# HUTECH's digital learning system: opportunities and challenges

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# OVERVIEW OF HUTECH EDUCATION SYSTEM



- ✓ Founded in 1995
- ✓ A leading private education group in Vietnam
- ✓ 50,000 students from K-12 to higher education

## Members of Our Education System

### ✓ Ho Chi Minh City University of Technology (HUTECH)

- [www.hutech.edu.vn](http://www.hutech.edu.vn)
- <http://www.facebook.com/hutechuniversity>
- [twitter.com/hutechvietnam](https://twitter.com/hutechvietnam)
- [www.youtube.com/c/HUTECHChannel](https://www.youtube.com/c/HUTECHChannel)

### ✓ Ho Chi Minh City University of Economics and Finance (UEF)

- [www.uef.edu.vn](http://www.uef.edu.vn)
- [www.facebook.com/uef.edu.vn](https://www.facebook.com/uef.edu.vn)
- [www.linkedin.com/school/university-of-economics-and-finance](https://www.linkedin.com/school/university-of-economics-and-finance)
- [www.youtube.com/daihocuef](https://www.youtube.com/daihocuef)

### ✓ Royal International Bilingual School (Royal School)

- [www.royal.edu.vn](http://www.royal.edu.vn)
- [www.facebook.com/Royalschool.vn](https://www.facebook.com/Royalschool.vn)
- [www.youtube.com/c/RoyalSchool1](https://www.youtube.com/c/RoyalSchool1)



## HUTECH EDUCATION SYSTEM

*A leading private educational group in Viet Nam*

- Founded in **1995** as Ho Chi Minh City University of Engineering and Technology, in 2013 its name was changed as Ho Chi Minh City University of Technology (HUTECH).
- Accredited by the Vietnam MOET, a member of ASEAN University Network, a member of ACBSP.
- Achieved **QS 4 Stars** Overall (UK) in Nov 2022: 5 Stars in Teaching, Employability, Facility, Academic Development and Inclusiveness Criteria.
- **30,000** students in 59 undergraduate programs in the fields of Engineering and Technology, Applied Science, IT, Business-Commerce, Accounting-Banking, Tourism-Hospitality, Health Science, Languages, Communication, Arts and Architectures, Music, Social Science, and Law.
- **1,300** postgraduate Students (Master and Doctoral).
- Academic Staff: **1,800**
- **1,000+** industry partners in many sectors.
- 95% graduate employability.
- Many international pathway and study abroad university partners in the U.S., Europe and Asia.
- **4 Campuses**, the main Campus located in the heart of Ho Chi Minh City, 62 labs and workshops.



**Ho Chi Minh City,  
Vietnam**



## Strategic Priorities

- Developing more Campuses in Ho Chi Minh City
- Developing more Academic Programs (especially for postgraduate)
- Internationalization, Student & Faculty Exchange, Joint-Programs





- Founded in **2007** as Ho Chi Minh City University of Economics and Finance.
- Accredited by the Vietnam MOET at Institutional level in 2019 and 14 undergraduate programs accredited at program level.
- Achieved **QS 4 Stars** Overall (UK) in April 2022: 5 Stars in Teaching, Employability, Facility and Inclusiveness Criteria.
- Academic Staff: **650**
- **17,000** Students in **36** English and Bi-lingual programs with a focus on Business, Finance, IT, Law, Communication, Hospitality Management and Languages.
- **500+** industry partners in many sectors.
- 95% graduate employability
- 30+ international pathway and study abroad university partners in the U.S., Australia, Europe and Asia.
- **2 Campuses**, the main Campus located in the heart of Ho Chi Minh City; multiple sites available for future development including a showcase campus in South Saigon.



### Strategic Priorities

- Developing more training majors
- Developing new Campuses in Ho Chi Minh City
- Ranking Top 300 Asia
- International accreditation: ACBSP, FIBAA, etc.
- Internationalization, Student & Faculty Exchange, Joint-Programs



## Overview

- Multi-level education model from Kindergarten to Primary, Secondary and High School.
- 2 campuses, 2000 students.
- Providing a world-class education in both English and Vietnamese languages with the combination of the National Education Program and Cambridge International Education Program.
- Labs of STEM, physics, chemistry, biology, music, arts, ICT of international standard.

## Vision

The Royal School's vision is to provide world-class bilingual education in both the English and Vietnamese languages, to foster high achievers who not only excel in independent thinking, but are able to cope with challenges, know how to act on their ambitions through non-stop research and contemplation, as well as being able to contribute positively to their communities in the future.





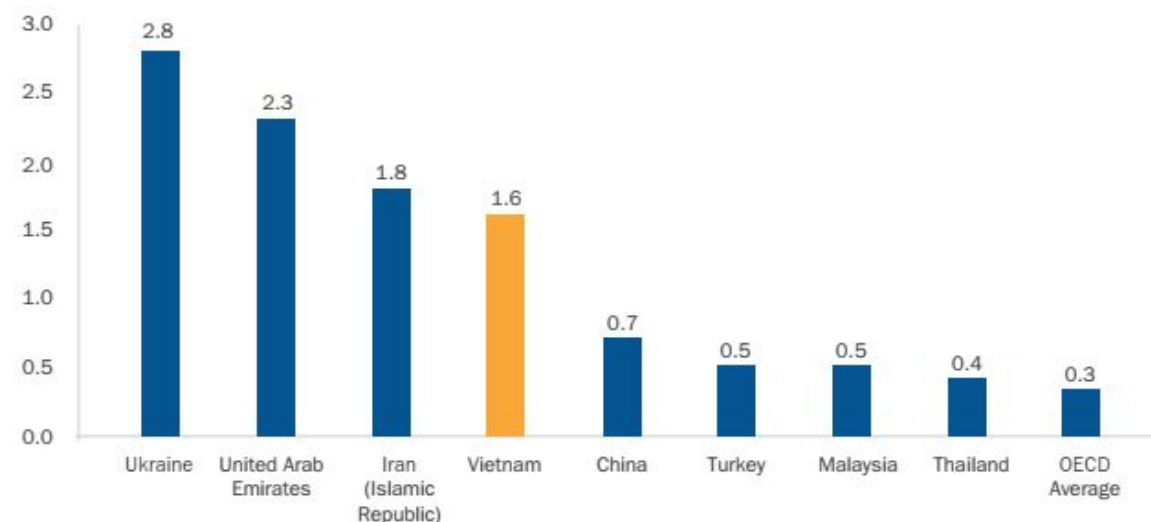
# Digital transformation and green transition in Viet Nam higher education institutions: a positive movement

# CHALLENGES IN NEW ERA 4.0

Digital  
transformation

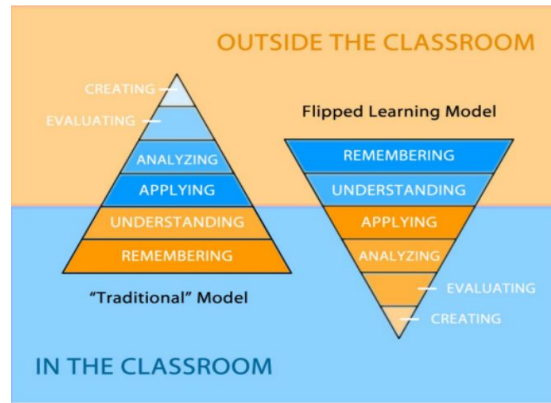


Climate change

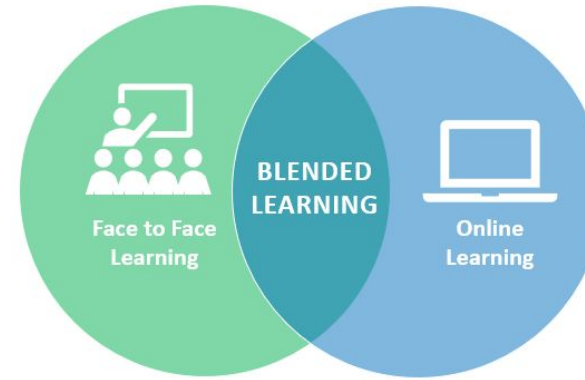


Carbon intensity of Vietnam's manufacturing exports [worldbank.com] 7

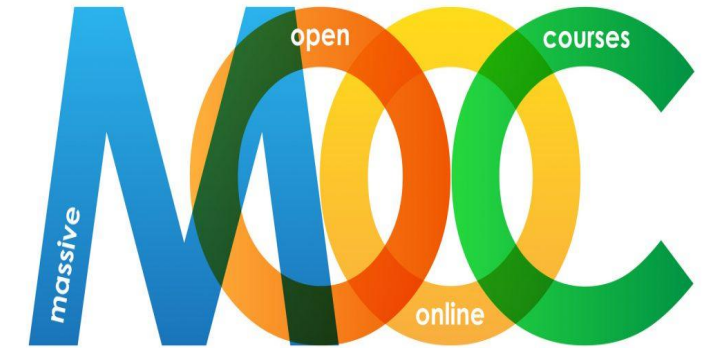
# CHALLENGES IN HIGHER EDUCATION



Flipped learning model



Blended learning model



Massive open online course

Education 4.0 ?

1



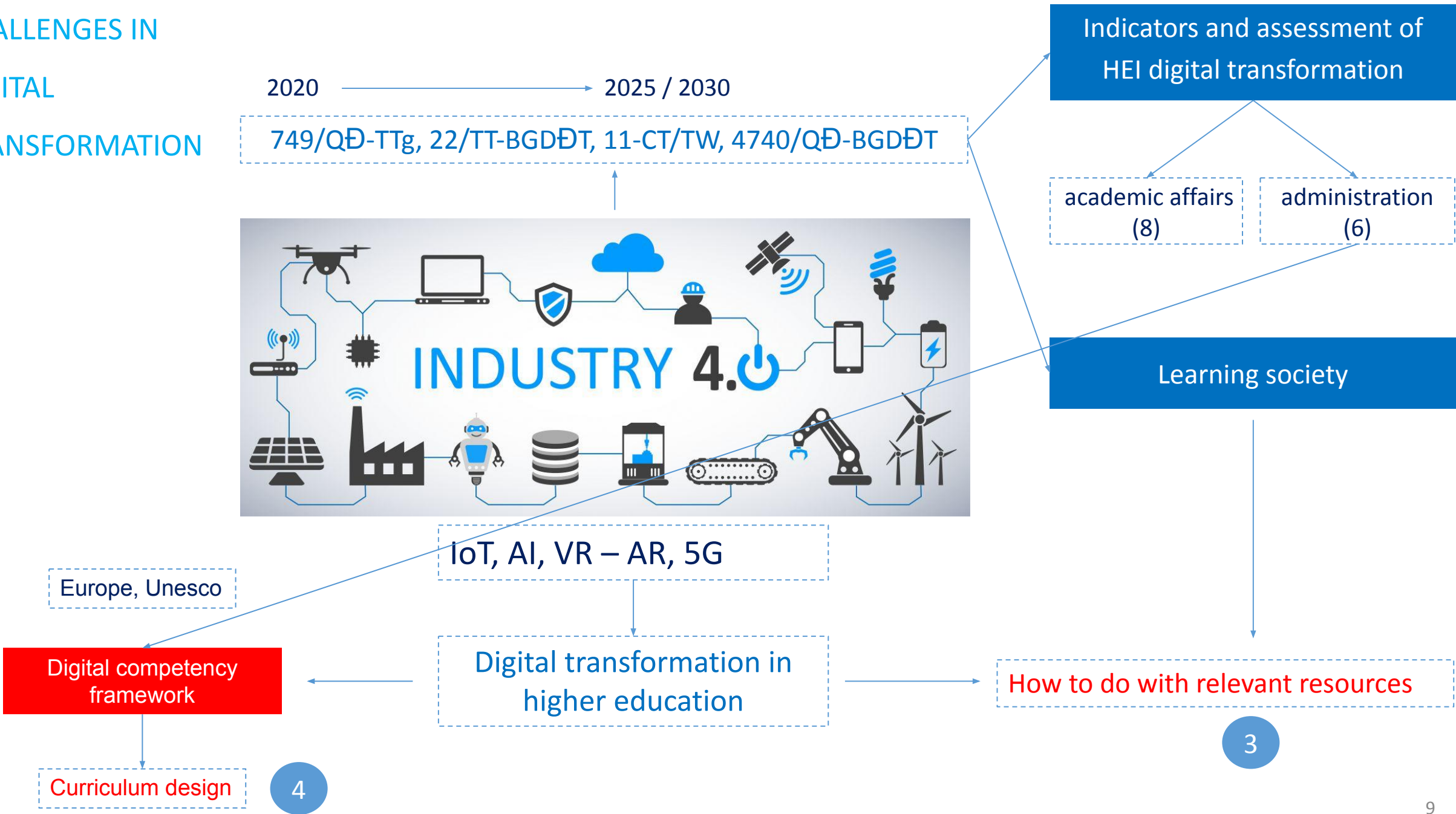
2

Education for sustainable development

Curricula adapted to digital transformation & green transition ?



CHALLENGES IN  
DIGITAL  
TRANSFORMATION



# DIGITAL TRANSFORMATION IN VIET NAM HIGHER EDUCATION INSTITUTIONS



DIGITAL MEDIA



DIGITAL CAMPUS



DIGITAL WORKPLACE



DIGITAL LEARNING



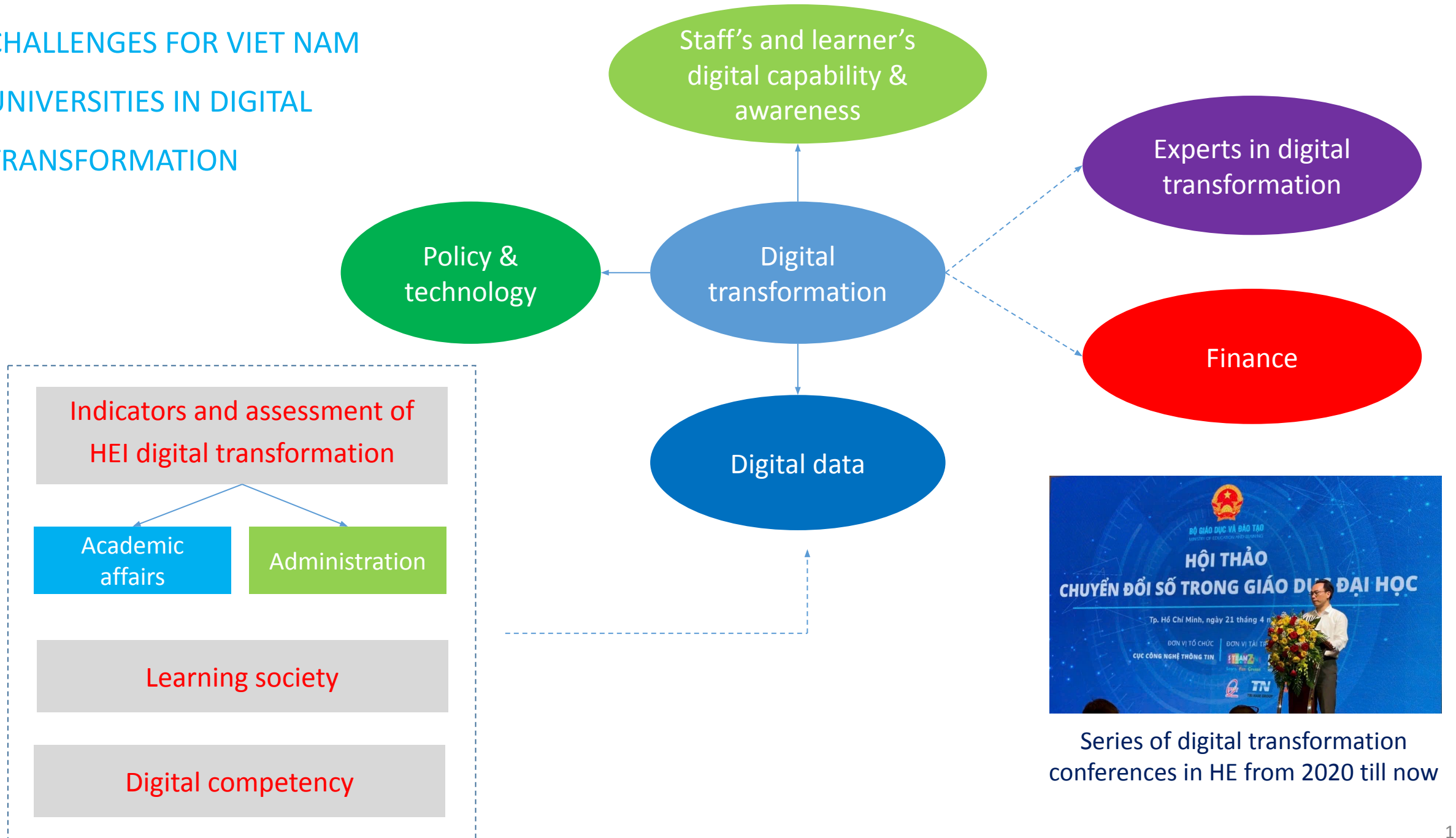
DATA CENTER



DIGITAL LIBRARY



# CHALLENGES FOR VIET NAM UNIVERSITIES IN DIGITAL TRANSFORMATION



Series of digital transformation conferences in HE from 2020 till now



# DIFFICULTIES FOR VIETNAM UNIVERSITIES IN GREEN TRANSITION

## Green transition



Viet Nam leading transition to clean energy in  
Southeast Asia

Sustainable development competency  
framework for Viet Nam HEI ?

Vietnam's green agricultural  
transformation: moving to  
low-carbon rice

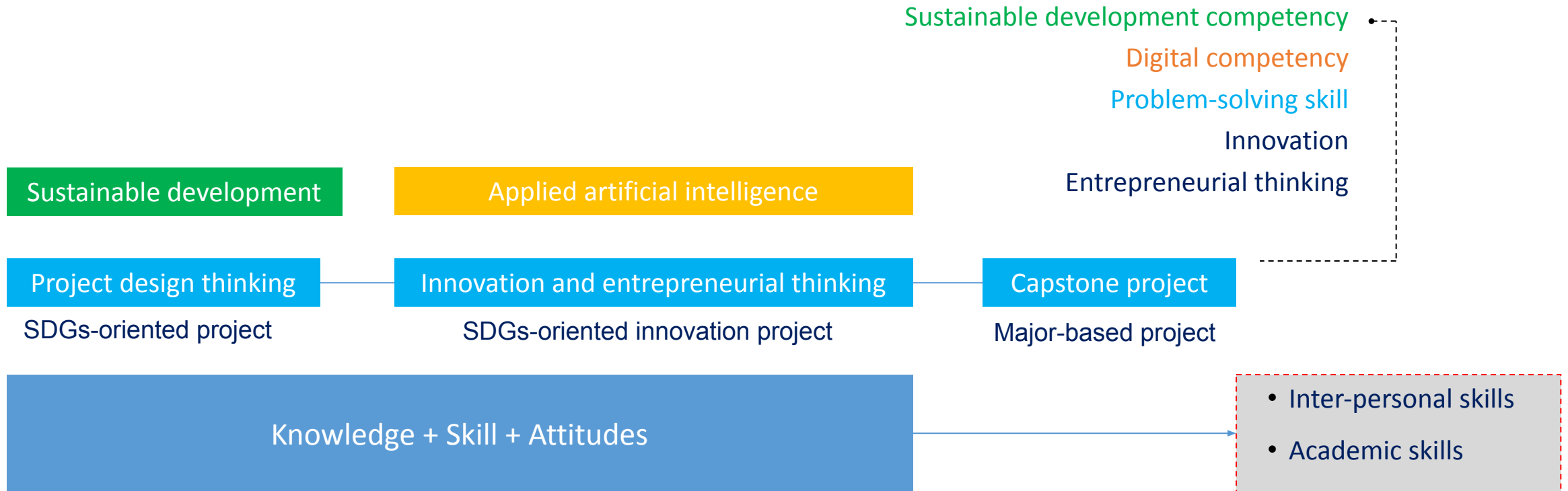


## Circular economy



HUTECH's ecosystem: curriculum design for digital transformation and green transition

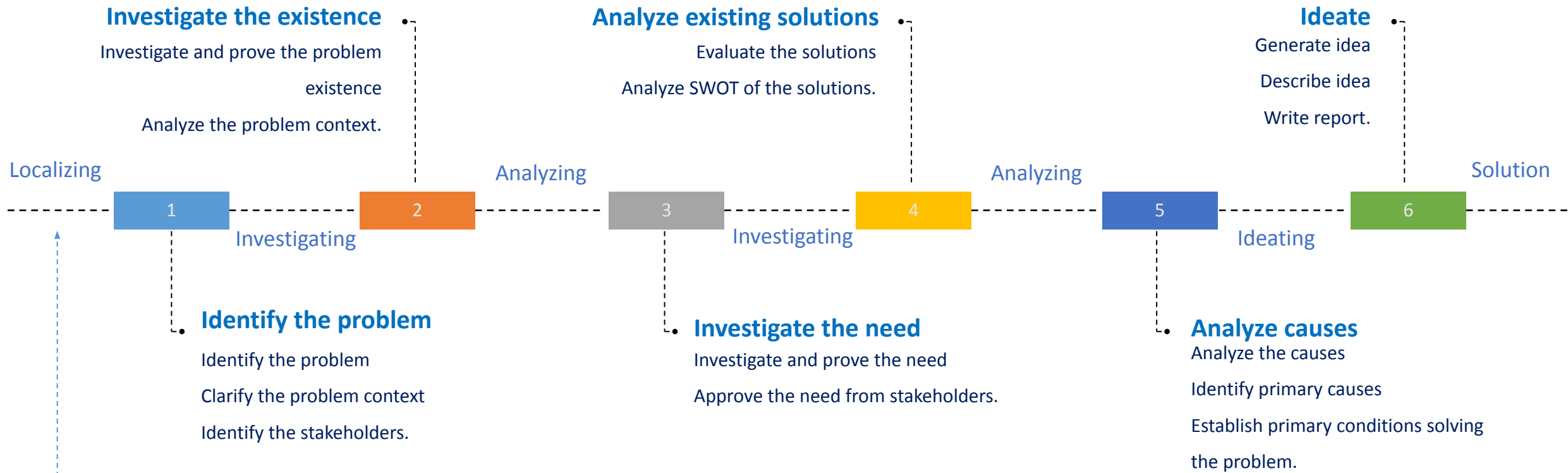
# HUTECH'S ECOSYSTEM FOR DIGITAL TRANSFORMATION & GREEN TRANSITION



Syllabus	Year 1		Year 2		Year 3		Year 4	
Project design thinking	Course	Course	Course	Course	Course	Course	Course	Course
Innovation and entrepreneurial thinking	Course	Course	Course	Course	Course	Course	Course	Course
Sustainable development	Course	Course	Course	Course	Course	Course	Course	Course
Applied artificial intelligence	Course	Course	Course	Course	Course	Course	Course	Course

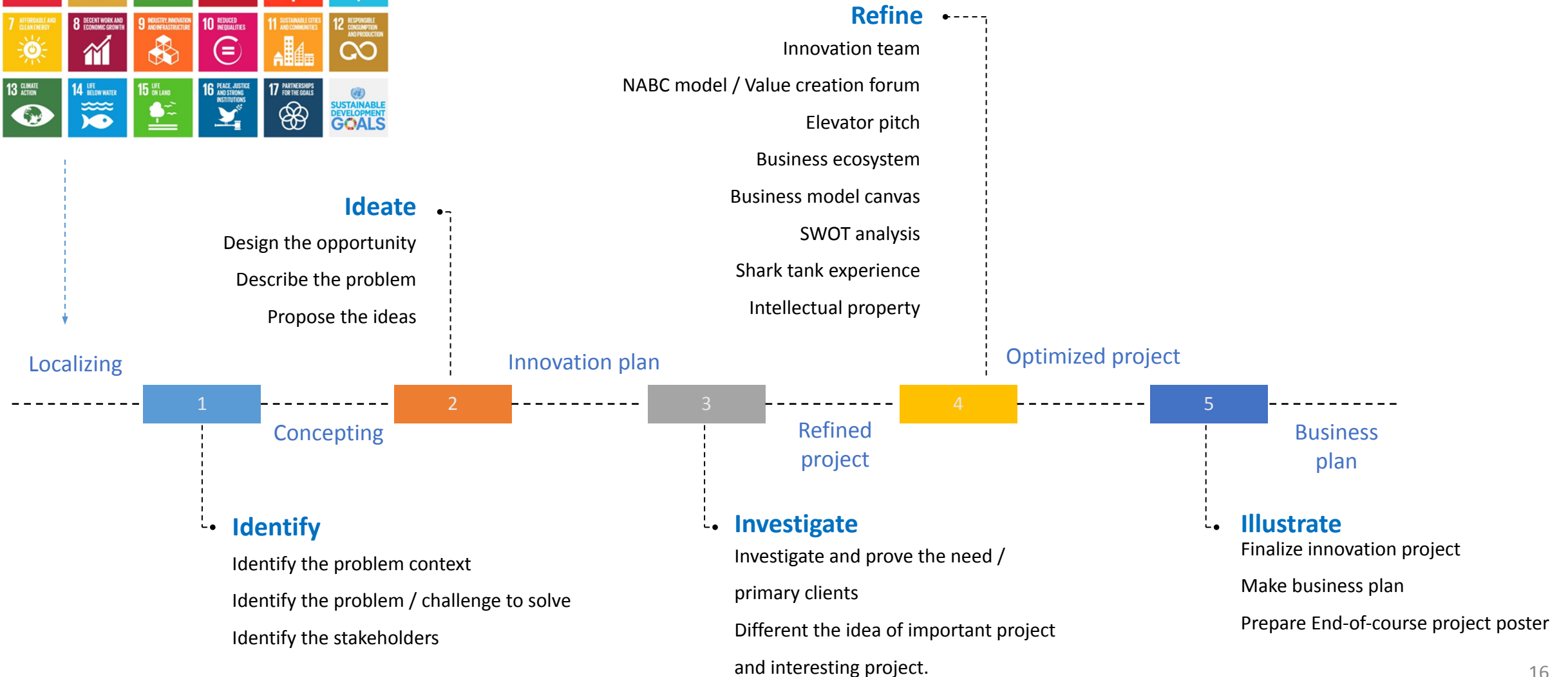


# PROJECT DESIGN THINKING



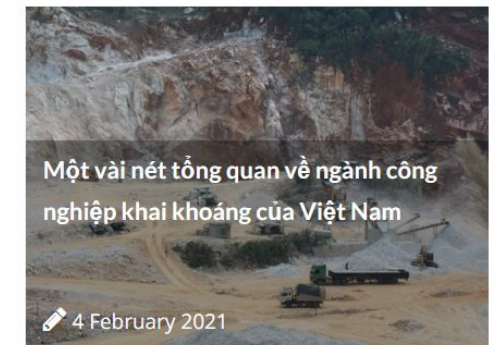
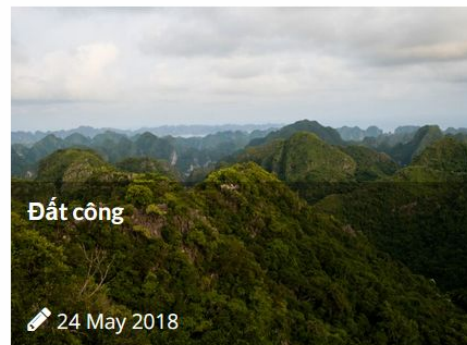
SUSTAINABLE DEVELOPMENT

# INNOVATION AND ENTREPRENEURIAL THINKING



# SUBJECTS

(Land, water,  
environment  
and climate  
change)



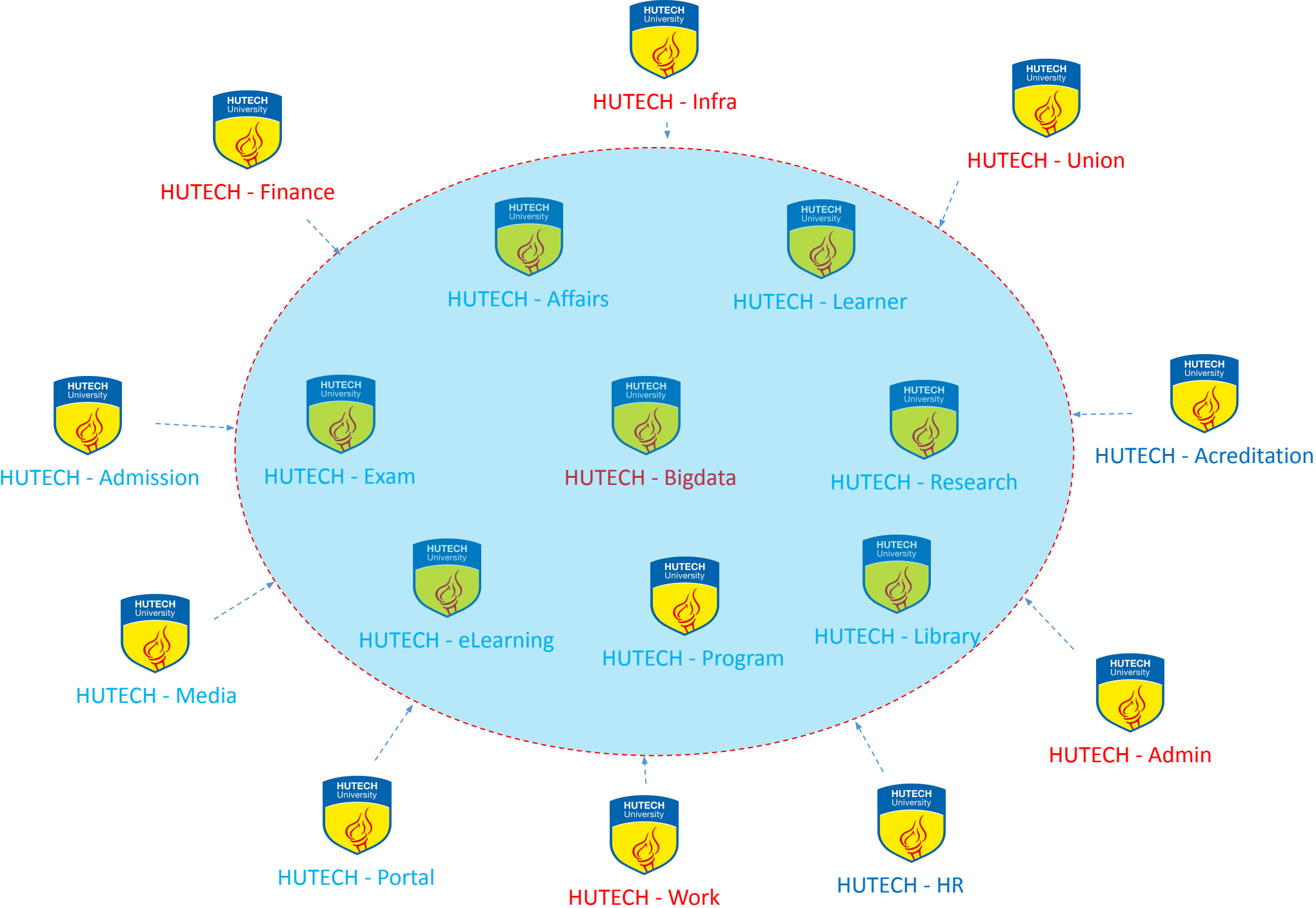


# HUTECH & UEF PROJECT DESIGN SHOW



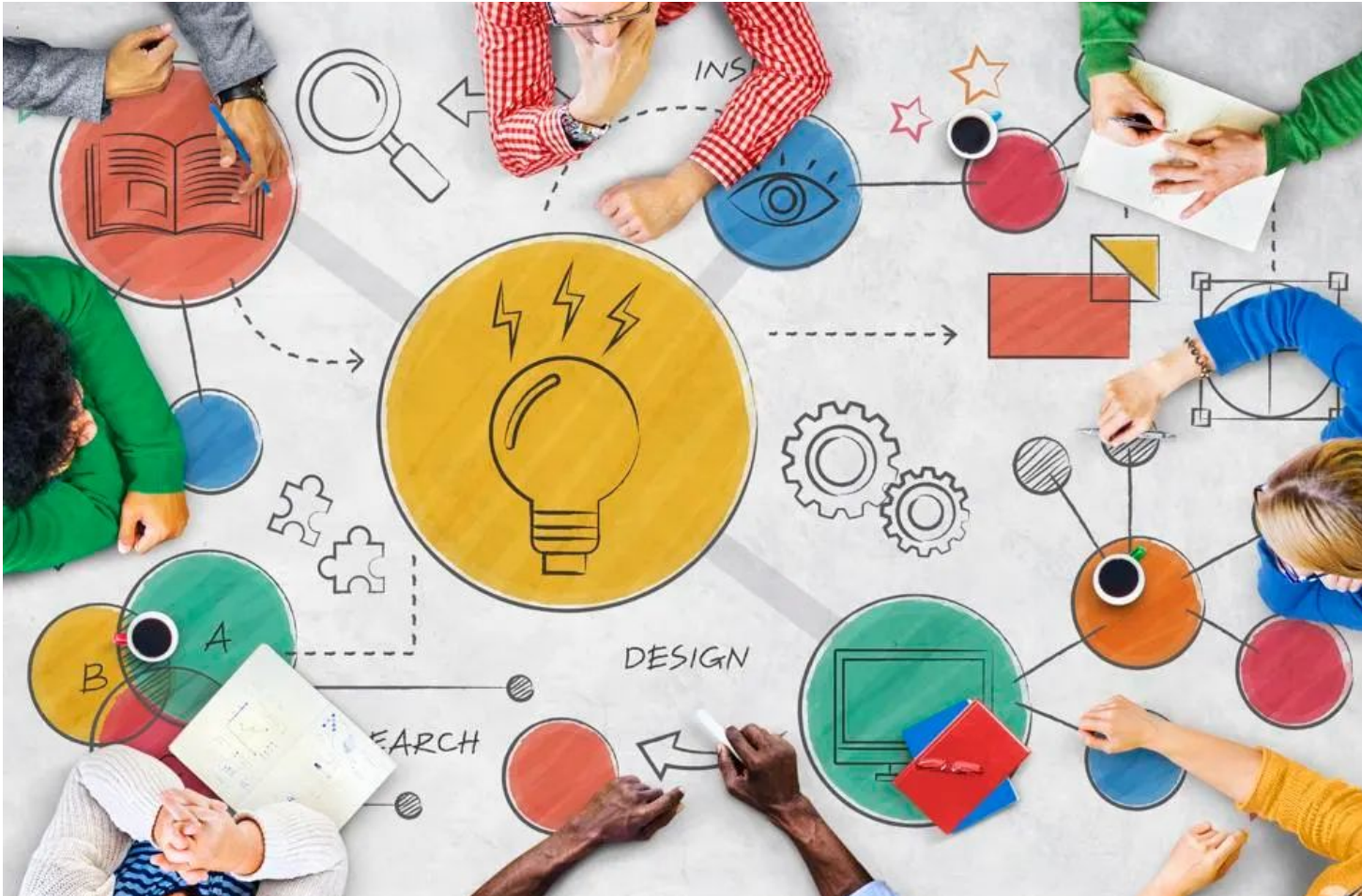
HUTECH's ecosystem: flipped classroom model in enhancing  
teaching and learning experiences

FRAMEWORK  
OF DIGITAL  
HUTECH  
UNIVERSITY





## HUTECH eLearning

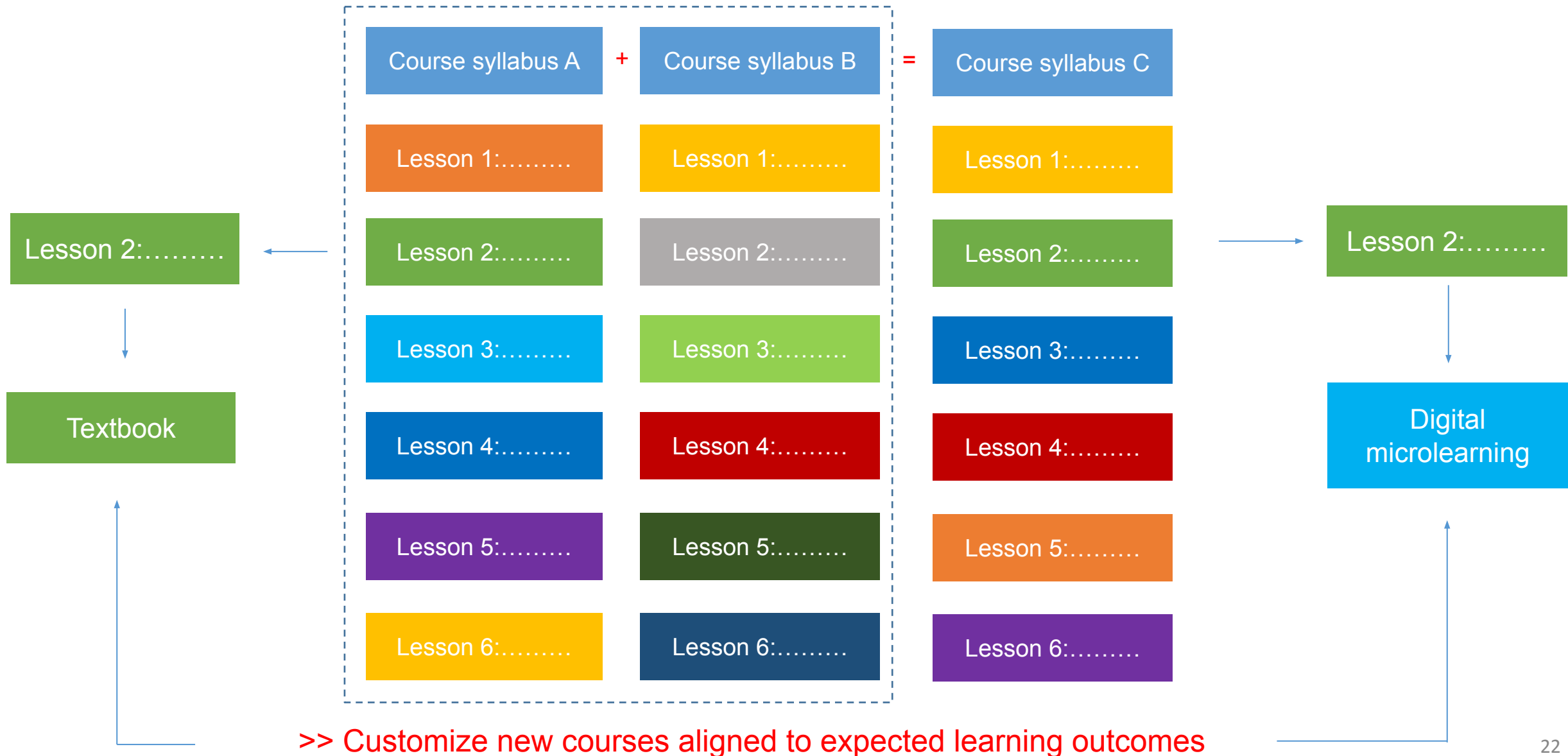


## Learning society in HUTECH eLearning

DIGITAL LIBRARY  
(HUTECH library)

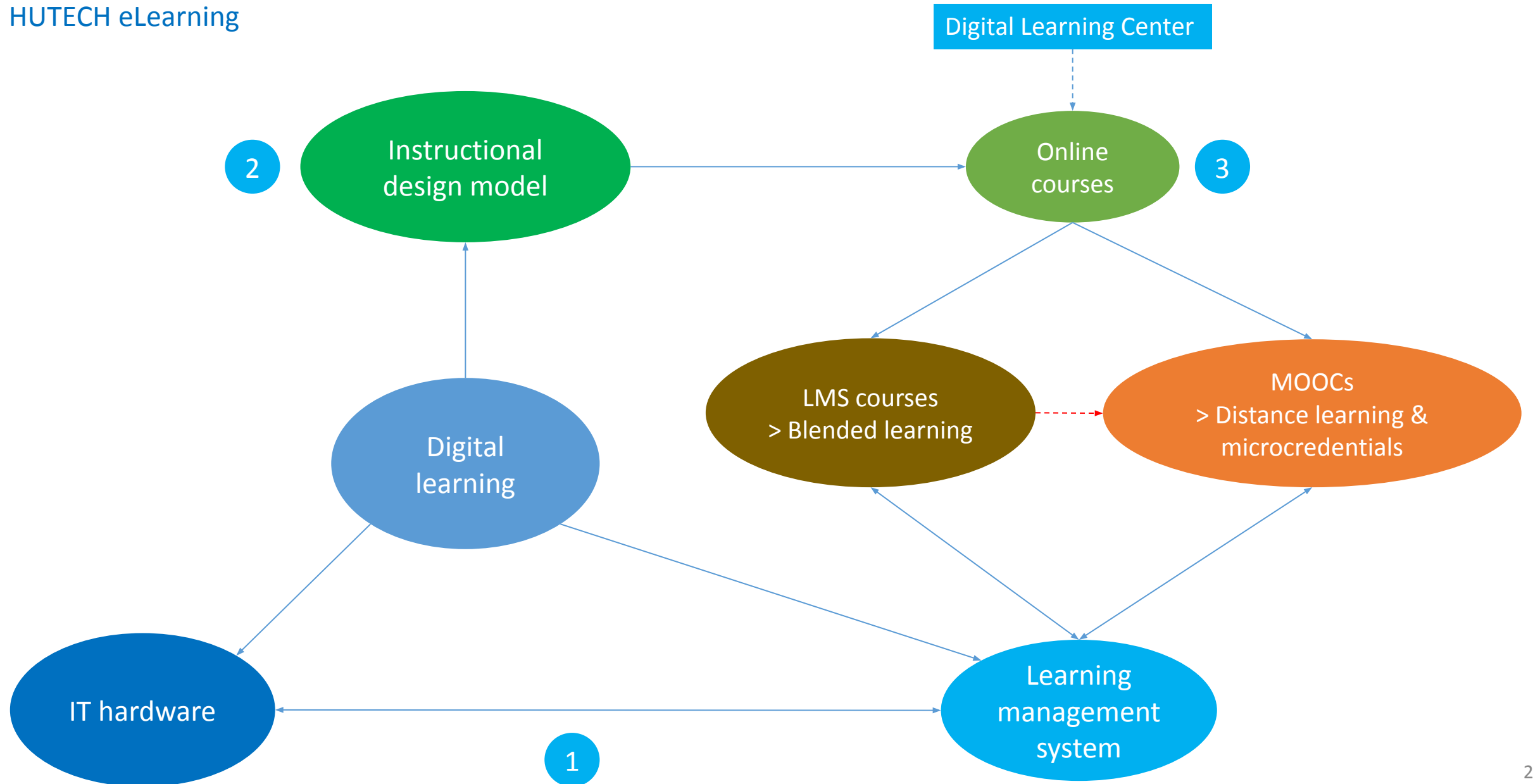
COURSE SYLLABUS DESIGN  
(HUTECH program)

DIGITAL COURSE  
(HUTECH elearning)



# HUTECH'S ONLINE LEARNING ECOSYSTEM

HUTECH eLearning





# HUTECH'S ONLINE LEARNING ECOSYSTEM

## HUTECH eLearning

lms.hutech.edu.vn

Popular courses

**Cơ học vật liệu nâng cao**  
GS.TS Nguyễn Trung Kiên  
MOOC course | 5 Lessons

**Outcome-Based Education**  
GS.TS Nguyễn Trung Kiên  
MOOC course | 4 Lessons

**Tiếp thị và kinh doanh thời trang**  
Khoa Kiến trúc - Mỹ thuật  
LMS course | 8 Lessons

**Kỹ năng thi tiếng Anh quốc tế**  
Khoa Tiếng Anh  
LMS course | 14 Lessons

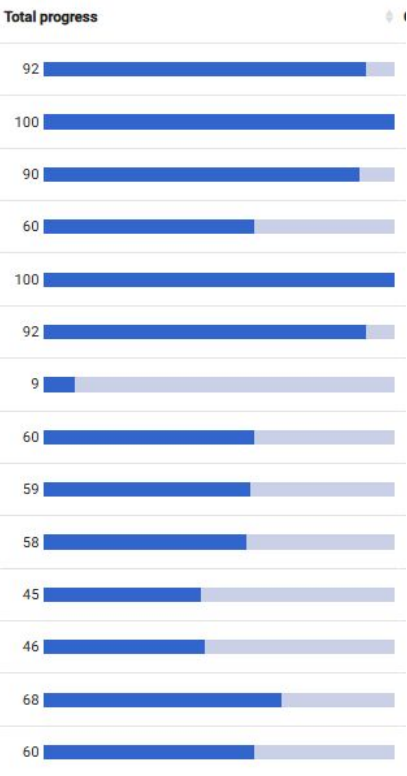
**Tuyển điểm du lịch**  
Khoa Quản trị Du lịch - Nhà hàng - Khách sạn  
LMS course | 7 Lessons

**Tâm lý học quảng cáo và marketing**  
Khoa Khoa học Xã hội và Quan hệ công chúng  
LMS course | 7 Lessons

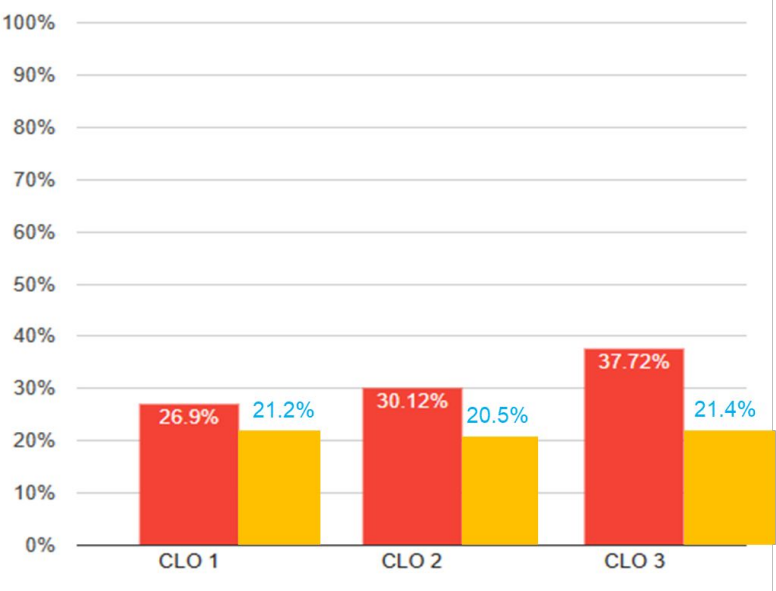
**Tâm lý học giao tiếp**  
Khoa Khoa học Xã hội và Quan hệ công chúng  
LMS course | 7 Lessons

**Lý luận về Nhà nước và Pháp luật**  
Khoa Luật  
LMS course | 8 Lessons

LMS & mooc courses



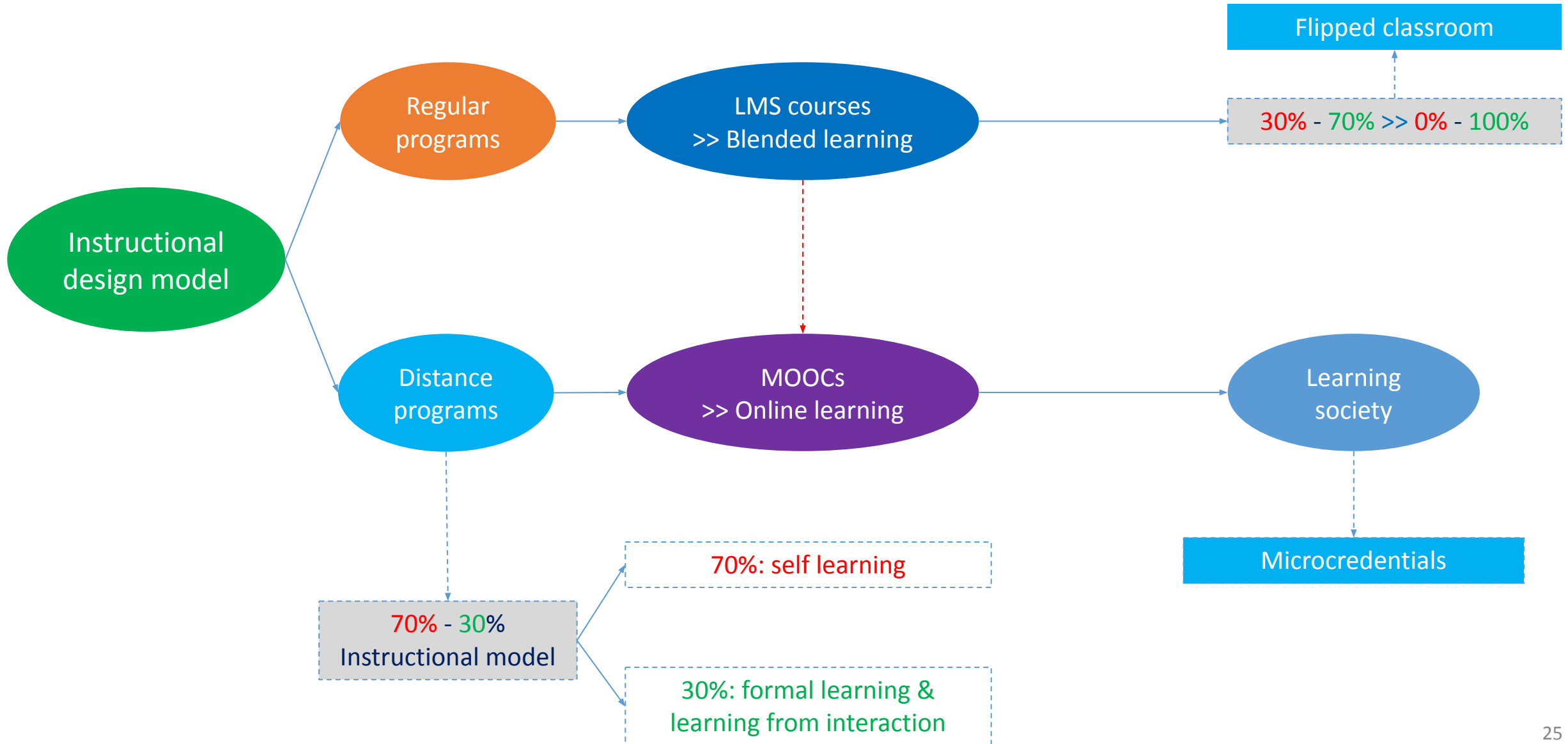
Student progress



Student performance

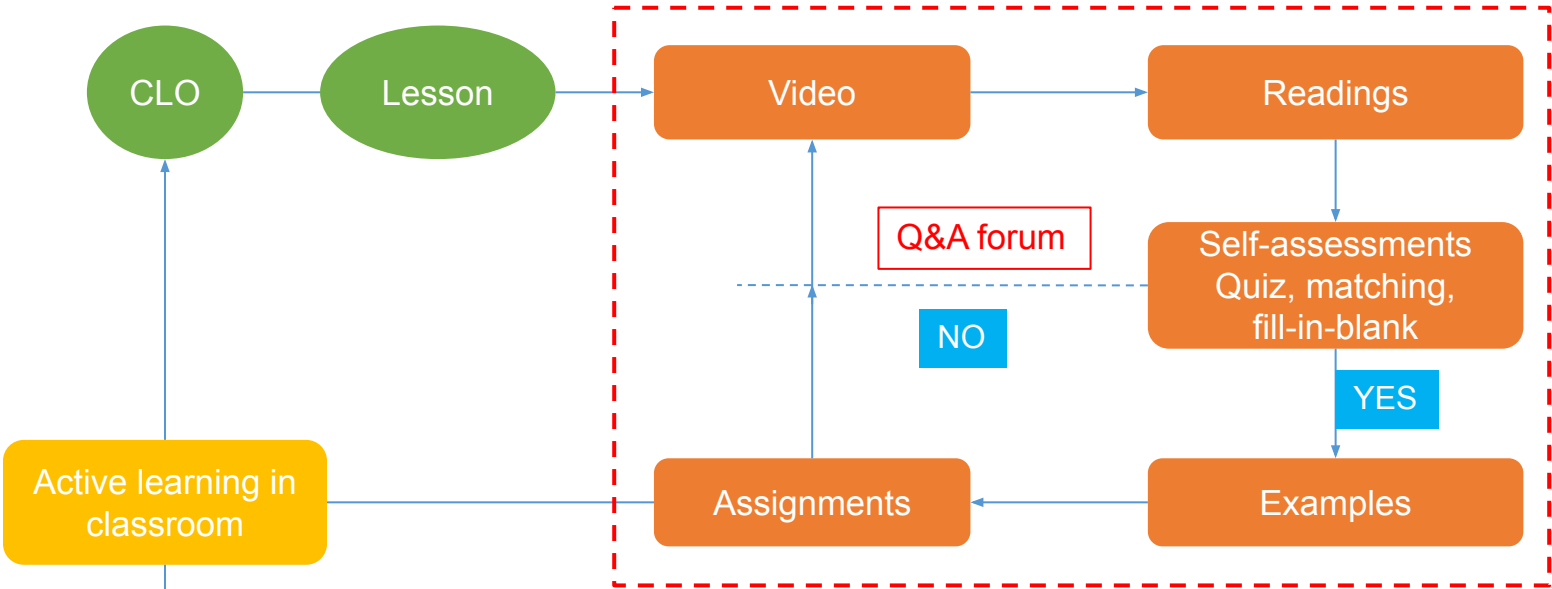
# HUTECH'S ONLINE LEARNING ECOSYSTEM

## Instructional design model

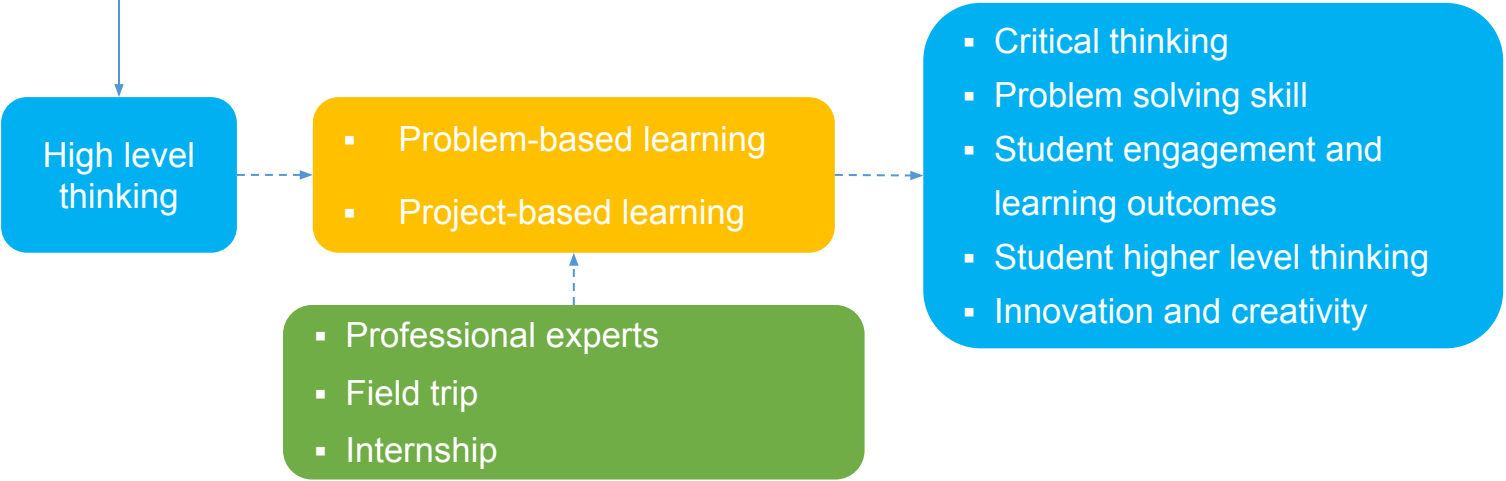


# HUTECH'S ONLINE LEARNING ECOSYSTEM

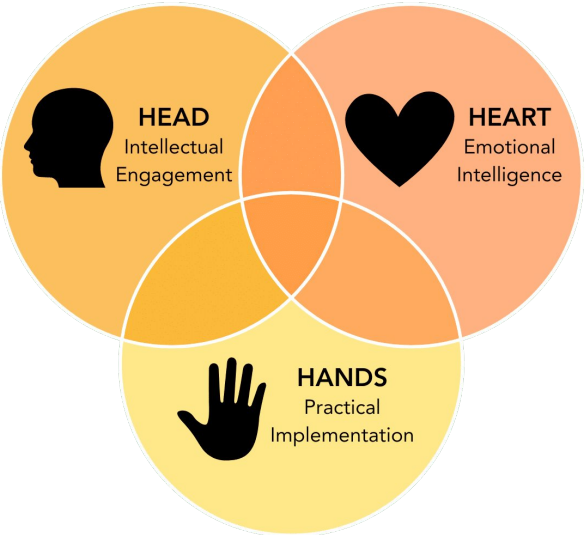
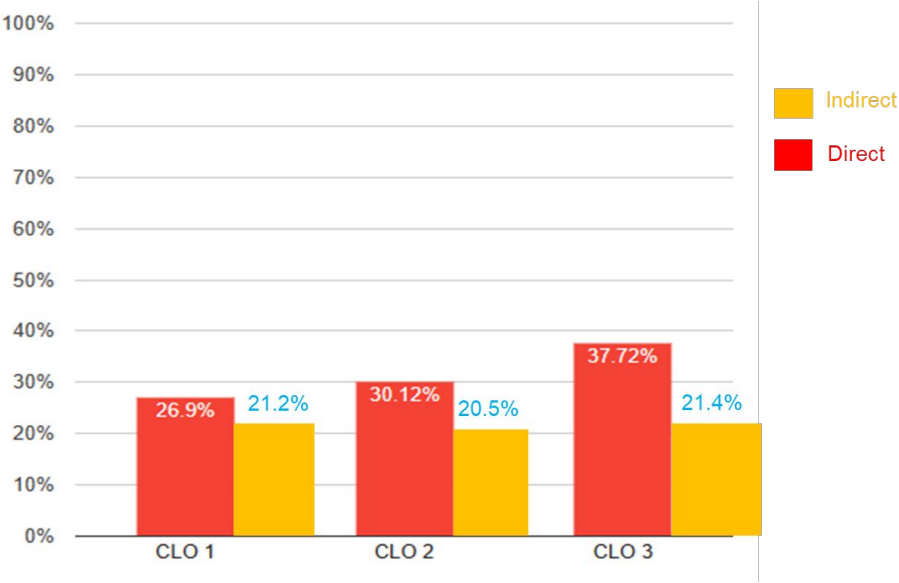
## Flipped classroom model



HUTECH eLearning: before & after classroom



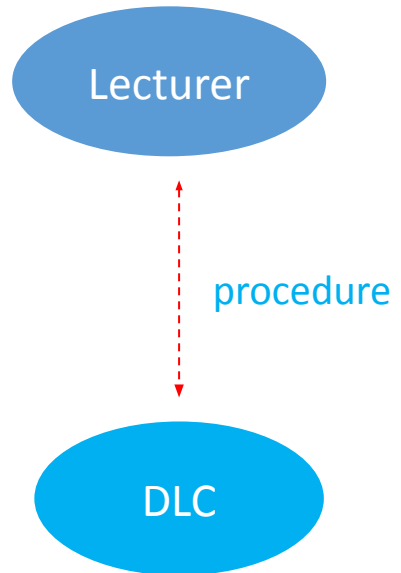
Attainment of CLO before class





# HUTECH'S ONLINE LEARNING ECOSYSTEM

## Development of online courses



- Video
- Graphic design
- Editing
- Education

100



# HUTECH'S ONLINE LEARNING ECOSYSTEM

## Development of online courses

Required materials		Learning outcomes	Learning activities		Assessments	
Video, readings, presentation, codes,...	<input checked="" type="checkbox"/>	Apply (Apply knowledge to different situations)	Watching video, reading documents of practical examples, problem-solving process, application, programming codes,..., >> case studies	<input checked="" type="checkbox"/>	Essay by using the acquired knowledges to solve similar problems in new circumstances	<input checked="" type="checkbox"/>
Description of problems/projects, rubric of assessments, guides, procedure,...	<input checked="" type="checkbox"/>		Raise problems, provide procedure to solve problems >> Problem-solving task	<input checked="" type="checkbox"/>	Quiz	<input checked="" type="checkbox"/>
Assignments	<input checked="" type="checkbox"/>		Ask students to apply the acquired knowledges to solve similar problems in new circumstances	<input checked="" type="checkbox"/>	Assignment of problem-solving task	<input checked="" type="checkbox"/>
Question, survey, Quiz	<input checked="" type="checkbox"/>		Ask questions, do survey, quiz, assignments to assess the learning outcomes of learning. Use Bloom's taxonomy verb fitted to the learning outcomes such as calculate, realize, use, apply, solve,...	<input checked="" type="checkbox"/>		

# HUTECH'S ONLINE LEARNING ECOSYSTEM

## Development of online courses

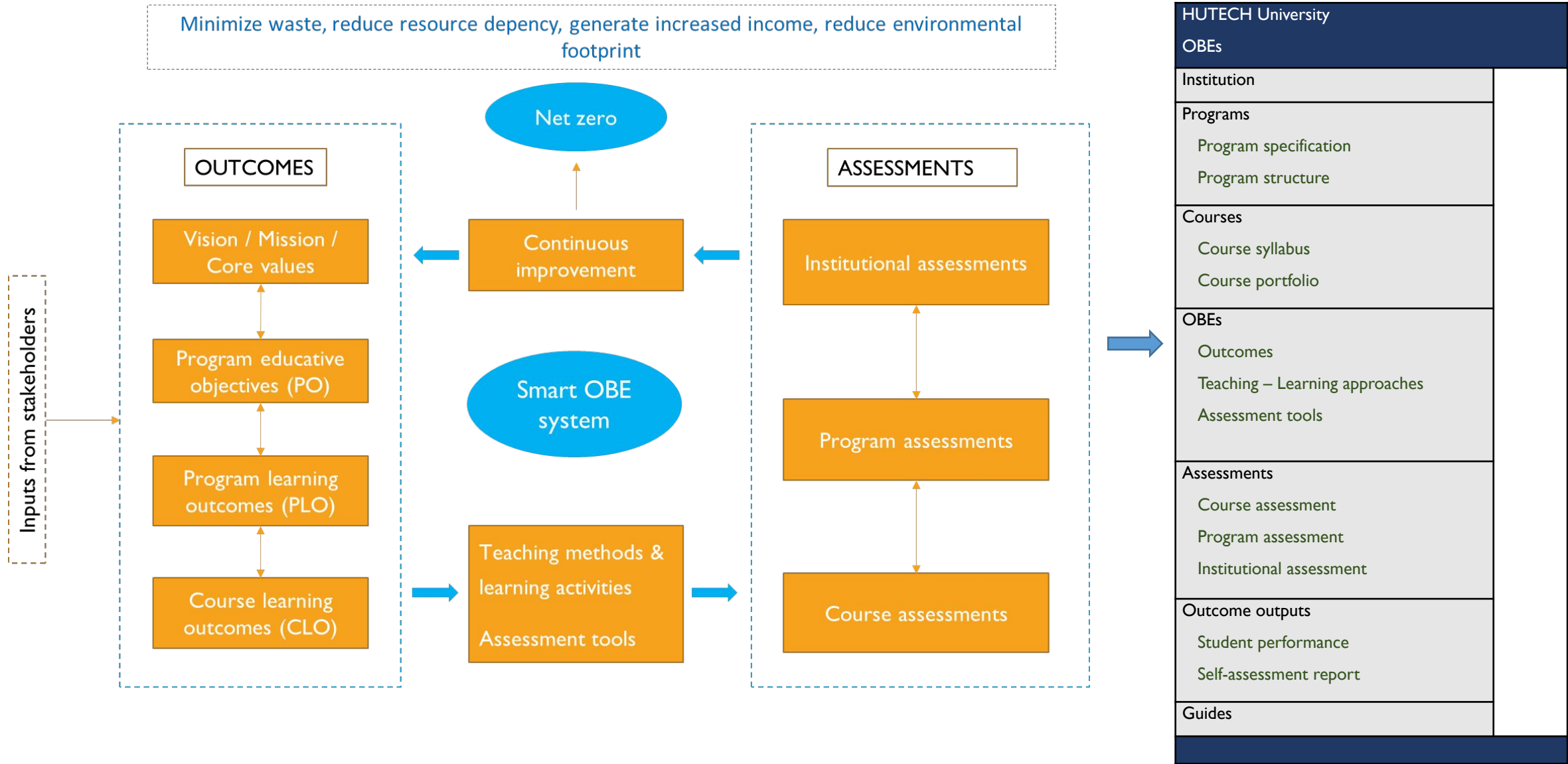
5 criteria

20  
indicators

- ✓ Objectives, learning activities and assessments aligned to course syllabus
- ✓ Course information, learner instruction, feedback, instructor-learner interaction well established
- ✓ Learning materials well constructed for self-paced learning
- ✓ Learning activities and assessments designed for online learning and aligned with learning outcomes
- ✓ Instructional design appropriately structured



# HUTECH'S ECOSYTEM FOR DIGITAL TRANSFORMATION & GREEN TRANSITION



## OUTCOMES OF DIGITAL TRANSFORMATION AND GREEN TRANSITION

- ✓ Enhance student engagement and learning outcomes
- ✓ Improve accessibility, diversity and inclusion
- ✓ Foster innovation and creativity
- ✓ Enhance awareness and encourage good practices about green transition among students and staff toward sustainable development and address global challenges

