

INNOVATIVE LEADERSHIP AND MANAGEMENT IN HIGHER EDUCATION: GLOBAL TRENDS AND PRACTICES IN THE POST COVID-19 PANDEMIC

SEAMEO RETRAC, July 07-08, 2022

Learning Ecosystem for Education 4.0 Results from EMVITET Project

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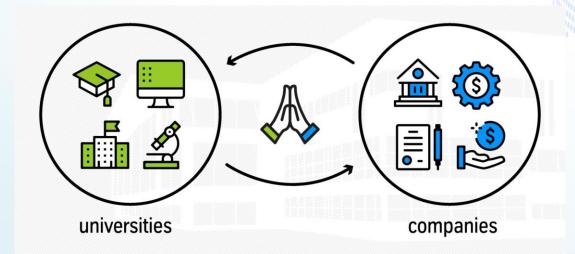
EMVITET focuses on developing teacher competencies, divided in three main areas:

PEDAGOGY

Design and implement competence based and student centered learning to match the needs of Industry revolution 4.0

TECHNOLOGY

Effectively use technology to **enhance and transform** teaching and learning practices towards to Edu 4.0



LEARNING ECOSYSTEM

Engage with communities within education and industry to create connections & support collaboration

- •identify their own strengths in emotional intelligence and self-management
- •identify and utilize dialogical principles in their own professional development and in team work with other participants
- •build community of practice in their own school to support development
- identify different ways to build industry -education
 collaboration and reflect their applicability in Vietnam

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Why Industry-Education collaboration?







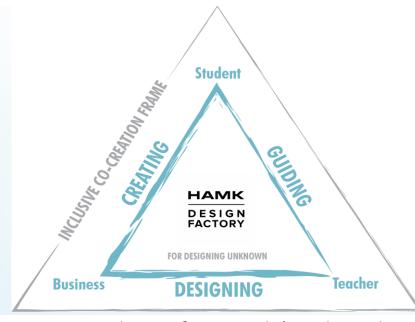
The **rapid changes** in the world of work and in **Industry 4.0** drive educational institutions to further design the **pedagogical practices** and **environments** (Shwab, 2016)

Traditional school environment is **not enough**, it is **crucial to connect** the real-world challenges and work-life partners into the learning process of the future workforce

Educational institutions: can better **assure** that students learn **relevant competencies Work-life partners:** benefit from the **fresh perspectives** of students and from the **diverse professional expertise** of educational institutions in solving their ambiguous **business challenges**International Conference 2022

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Design Factory approach and principles in university-industry collaboration



- [1] **Companies** have demand for solutions for real-life business challenges that provide **authentic learning environments** for students
- [2] **Students** are at the **centre for creating solutions** for companies in authentic learning environments
- [3] **Teachers** work as **facilitators** guiding the process and codesigning the challenge with the companies

Co-creation pedagogy framework (Jussila et al., 2020)

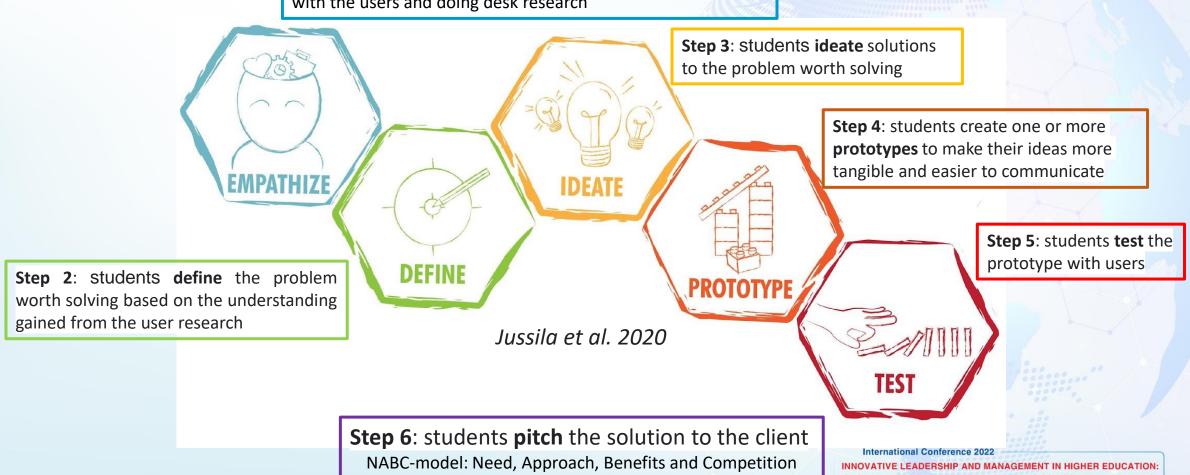
The **new role** of teacher-facilitator in the pedagogical approach highlighting the need to **change mind**set towards **trust in learning** and **development**, **collaborative work** with work-life partners, experimental attitude with a joy of **uncertainty** and an **acceptance of incompleteness** (Kunnari, 2021).





HAMK design thinking process

Step 1: students are introduced to the challenge and students start to explore the problem space by **empathizing** with the users and doing desk research



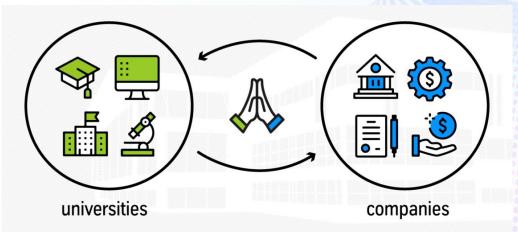






EMVITET partners' cases for developing their innovation spaces

Experts in many fields (Lecturers)
Cheap employees (Students)
Labs (Machines for making
prototype)



Market demand (Customers)
Capital investment (Finance)
Workshop (Machines)



Bring us your ideas and receive your products!



Maker space for students

Free tools and machines, free space for making entertainment creation and vocational guidance



R&D Department for SME companies

Learn the steps to solve real problems

from the market

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Design thinking process in Lac Hong Design Factory

Step 1	Step 2	Step 3	Step 4		Step 5
Take the resquest from the customer	-Re-evaluate market demand -Find solutions that are already on the market -Report to customer whether to implement this product or not	-Brainstorm design ideas -Create 3D model for the machine -Make prototype	-Test the product -Get feedback -Finish the final product		-Build production process -Find the suppliers -Make the user manual
		Step	6		Step 7
		-Hand over all d -Participate in m			it by design ideas fit/product

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Performance results of Lac Hong Design Factory

No	Company name	Project	Number of students	Name of projects
1	Lixil Global Manufacturing Vietnam Co., LTD	18	54	Tape gluing machine Rubber threading machine Taro machine Threading Machine Automatic packing machine Aluminum stamping machine
2	Chi Thanh Telecom Co., Ltd	1	8	Solar Cleaning robot
3	Gold Label Co., LTD	2	10	Automatic shoelace and glue dispenser machine
4	An Cuong Wood Joint Stock Company	1	5	PVC thread measuring and winding machine





Biggest difficulty in implementation Design factory model







Students Graduation

Teachers Lesson

Worklife partners

Market Profit Dealine

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