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ERASMUS-EDU-2022-PI-FORWARD.

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## PROJECT ID

- **Project number:** 101086100
- **Project name:** Higher Education Classroom Of the Future
- **Project acronym:** HECOF
- **Topic:** ERASMUS-EDU-2022-PI-FORWARD-LOT1
- **Type of action:** ERASMUS-LS
- **Project starting date:** fixed date: 1 January 2023
- **Project duration:** 30 months
- **Coordinator:** KONNEKT ABLE TECHNOLOGIES LIMITED (KT)

## PARTNERS

- KONNEKTABLE TECHNOLOGIES LIMITED (KT), IE  
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# HECOF

HIGHER EDUCATION  
CLASSROOM OF THE FUTURE



## VISION

Drive systemic change in higher education by promoting innovation in teaching practices and national education reforms.

## How?

Through the development and testing of an innovative personalized, adaptive way of teaching that exploit the digital data from students' learning activity in immersive environments and use computational analysis techniques from data science and AI.

## OBJECTIVES

- Designing and developing **immersive learning environments** and **personalized adaptive learning systems** that focus on the academic discipline of chemical engineering.
- Engaging **teaching staff** and students in shaping and co-designing the learning system.
- Promoting the development and adoption of **ethical** and **lawful AI technologies** that respect fundamental rights in educational settings.
- Conducting **pilot studies** to assess the performance of the HECOF prototype system in real classroom settings, focusing on learning experience (completeness), benefits compared to traditional pedagogical models (quality), and user experience (acceptance).
- Creating **awareness** and **understanding** of the benefits and challenges of integrating Virtual Reality (VR) with AI for immersive and adaptive learning in higher education.
- Driving the **policy agenda** by formulating recommendations on the role and use of AI for personalized, adaptive learning in higher education and disseminating HECOF's work at EU and national political levels.

## BENEFICIARIES

- Researchers
- HEI teaching staff
- Students
- HEIs Management staff and members of Governing structures
- Education Policy planners
- IT industry companies
- Prospective teachers/lecturers
- Edtech financiers and investors



## TECHNOLOGIES | COMPONENTS

- VR-capable core
- AI-based adaptive learning
- Machine learning module
- Data analytics module
- Classroom Orchestration Data Lake
- Data security module
- Cross platform API module
- Interactive Dashboards module