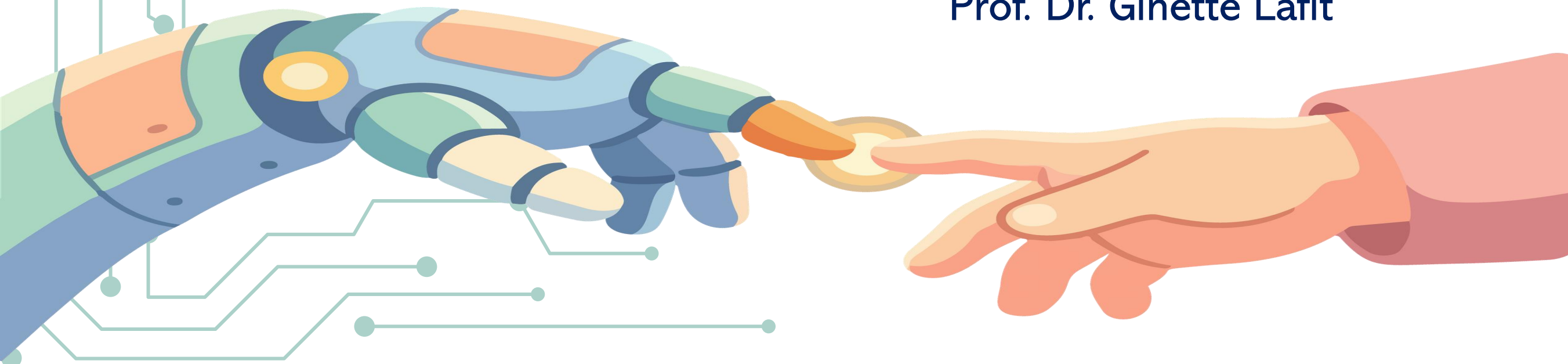




HYBRID COLLABORATIVE CLASSROOM

*Can on-site and remote participants
collaborate effectively in real time?*

Khanh Thy Tran
Michiel Spaepen
Prof. Dr. Annelies Raes
Prof. Dr. Ginette Lafit





**Synchronous Hybrid
Education (SHE) learning
spaces @KU Leuven over
the past decade**



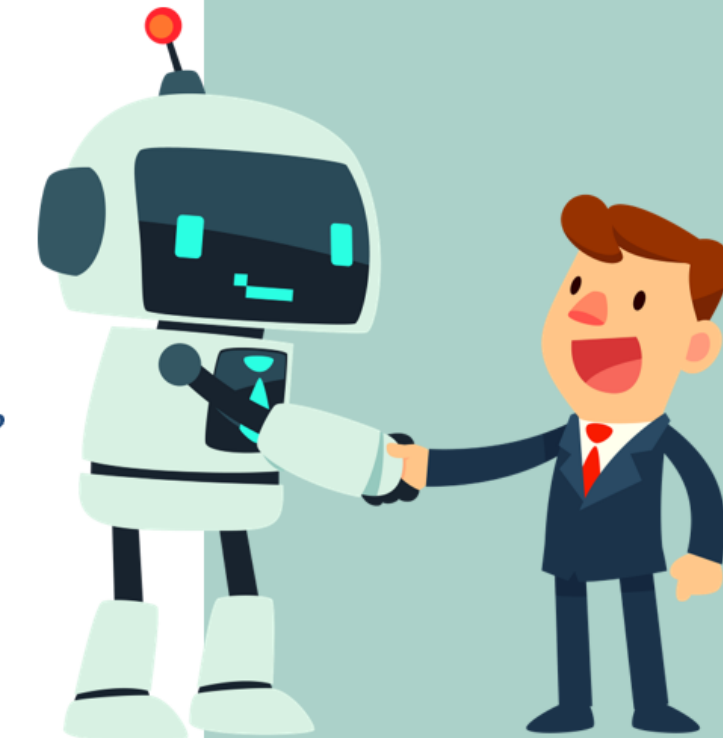
**HYBRID
COLLABORATIVE
CLASSROOM**

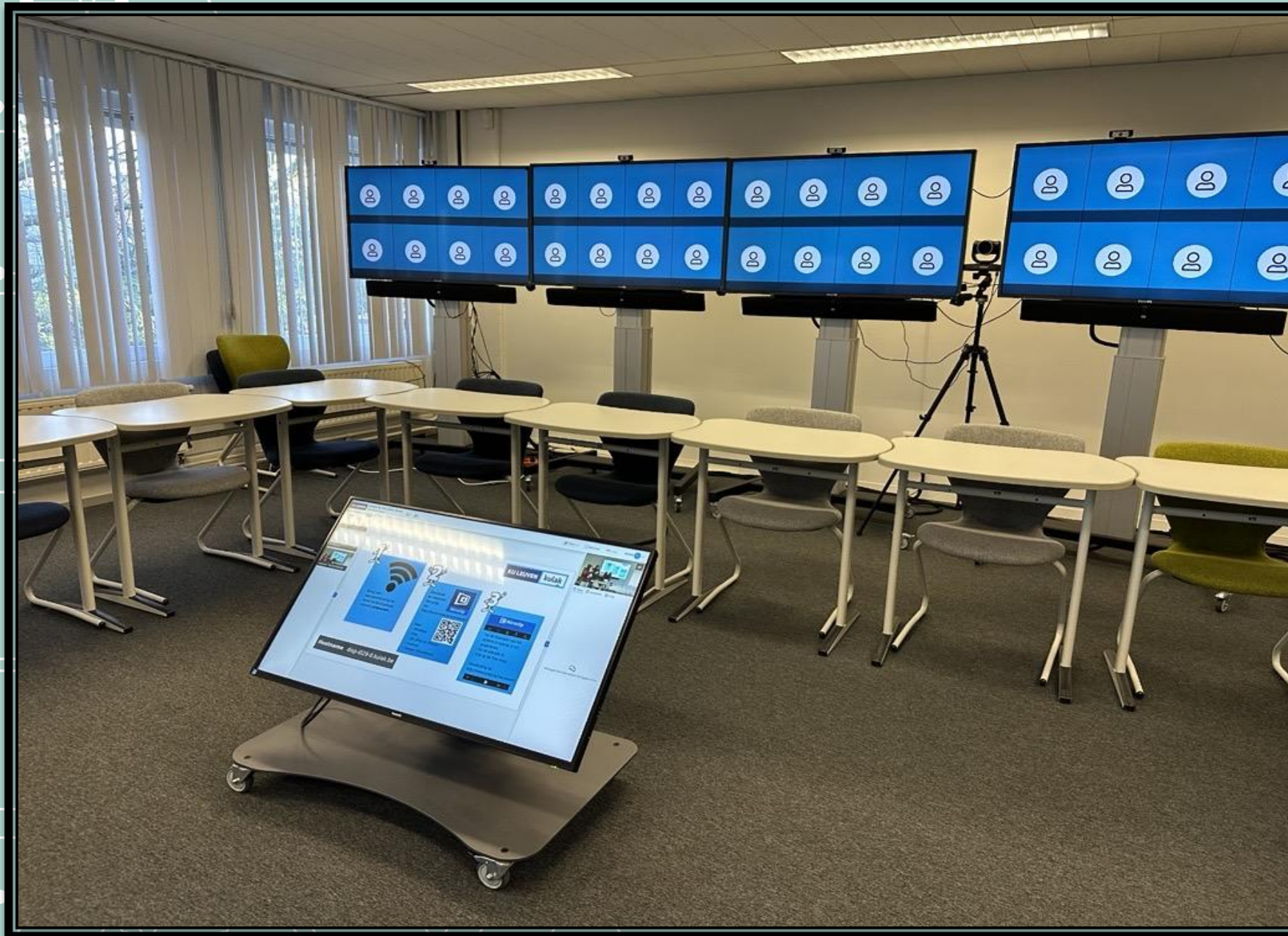
**TEACHING &
RESEARCH IN
HYBRID
COLLABORATIVE
CLASSROOM**



**GROUP
DISCUSSION**

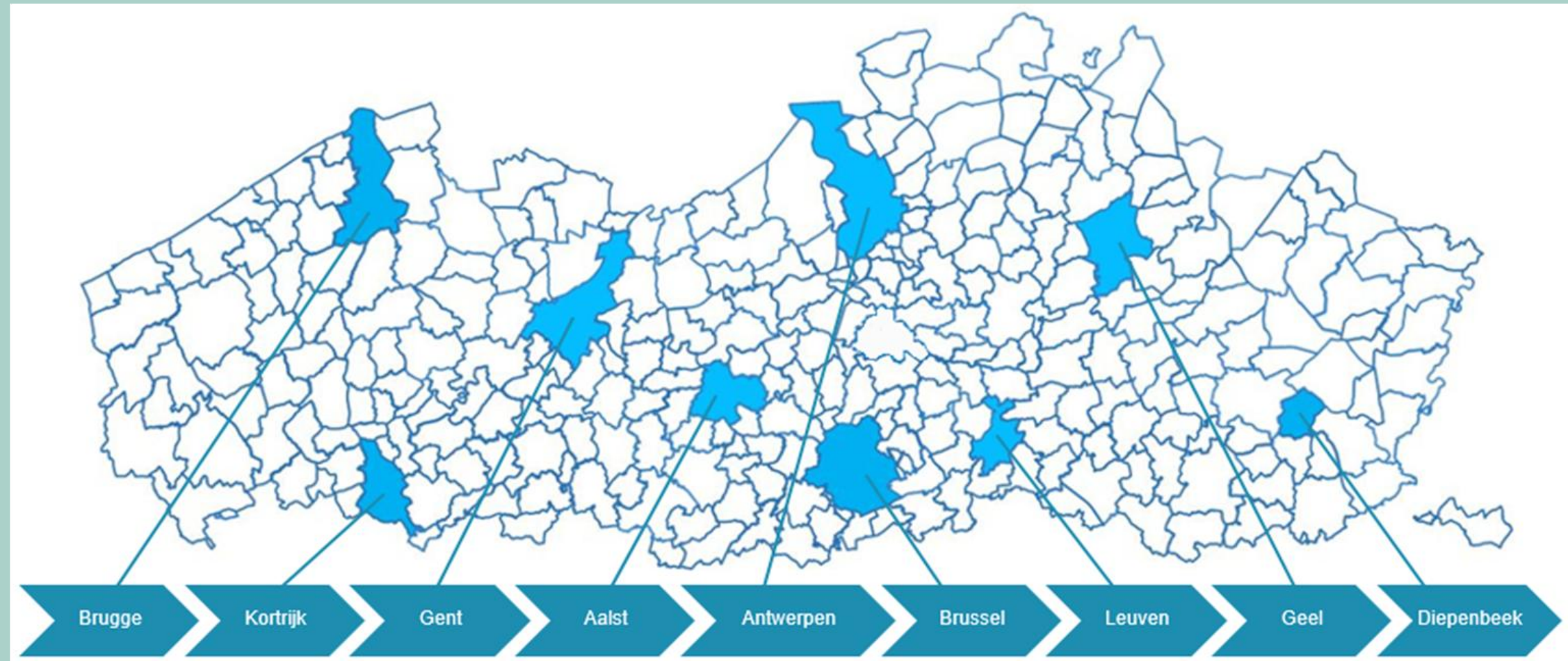
How can we move forward together?





**Synchronous Hybrid
Education (SHE) learning
spaces @KU Leuven over
the past decade**

SYNCHRONOUS HYBRID EDUCATION (SHE)



Hybrid classrooms @Kortrijk

TECOL PROJECT

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

2025

2026

LECTURE+

Hybrid classrooms @Kulak Kortrijk

EUNIS Award for
Best Overall AV-enabled
Education Space 2020

Supported by
AVIXA





EUNIS Award For
Best Overall AV-enabled
Education Space 2020
Sponsored by
AVIXA

Hybrid classrooms @Kortrijk

TECOL PROJECT

Lockdown

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

2025

2026

LECTURE+



Frontal teaching configuration



Interactive teaching configuration

(KU Leuven Learning Lab, 2024; Universitas 21, 2023)

Frontal teaching configuration



Auditoria and many seminar rooms.

Standard 1: Class Recording

- Students can review the recorded lectures **asynchronously** after class.

Standard 2: Livestreaming

- Real-time remote attendance.
- Students can interact with the instructor.
- Peer-to-peer interaction remains limited.



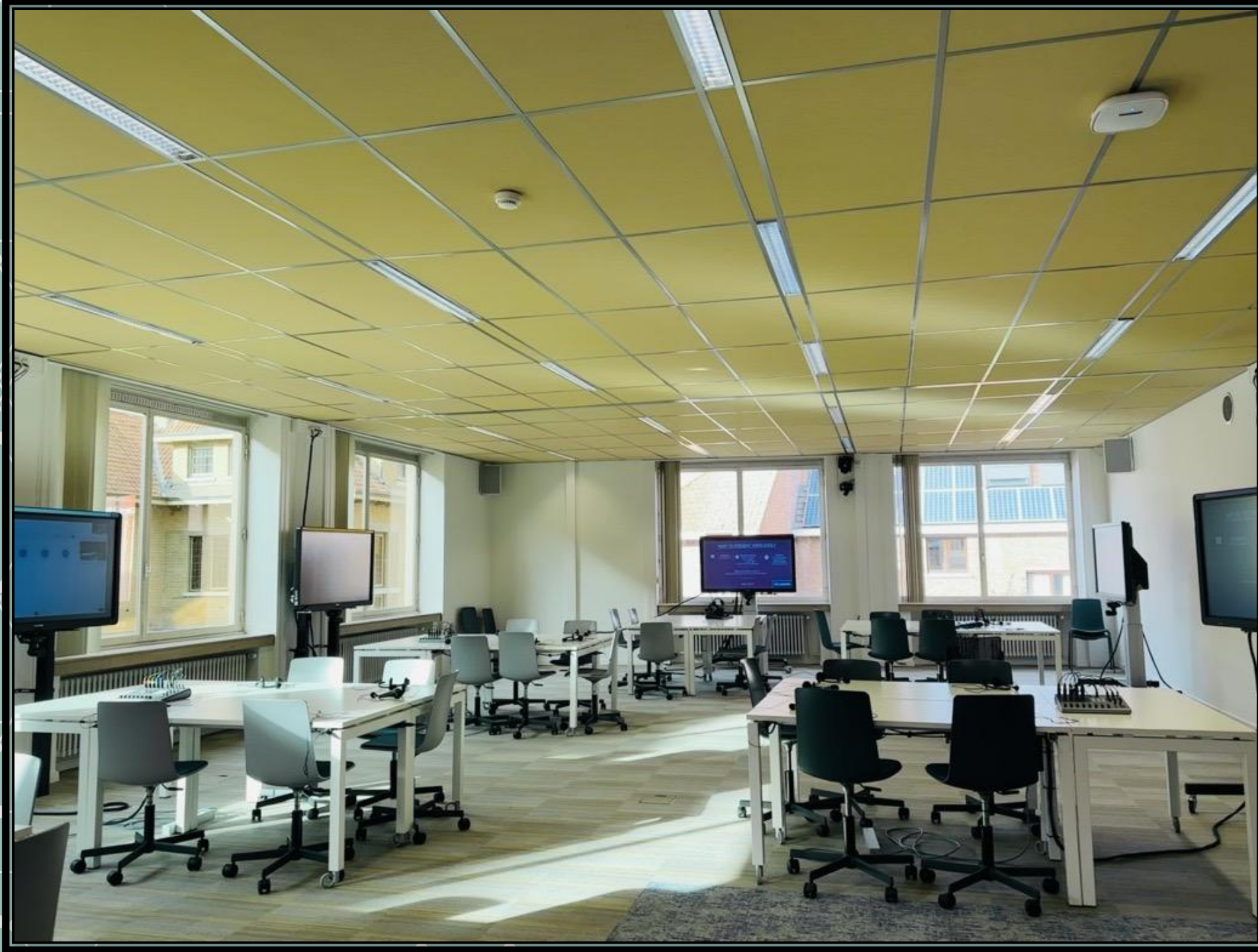
Interactive teaching configuration



Collaborative classroom at campus **Leuven**



Collaborative classroom at campus **Kortrijk**

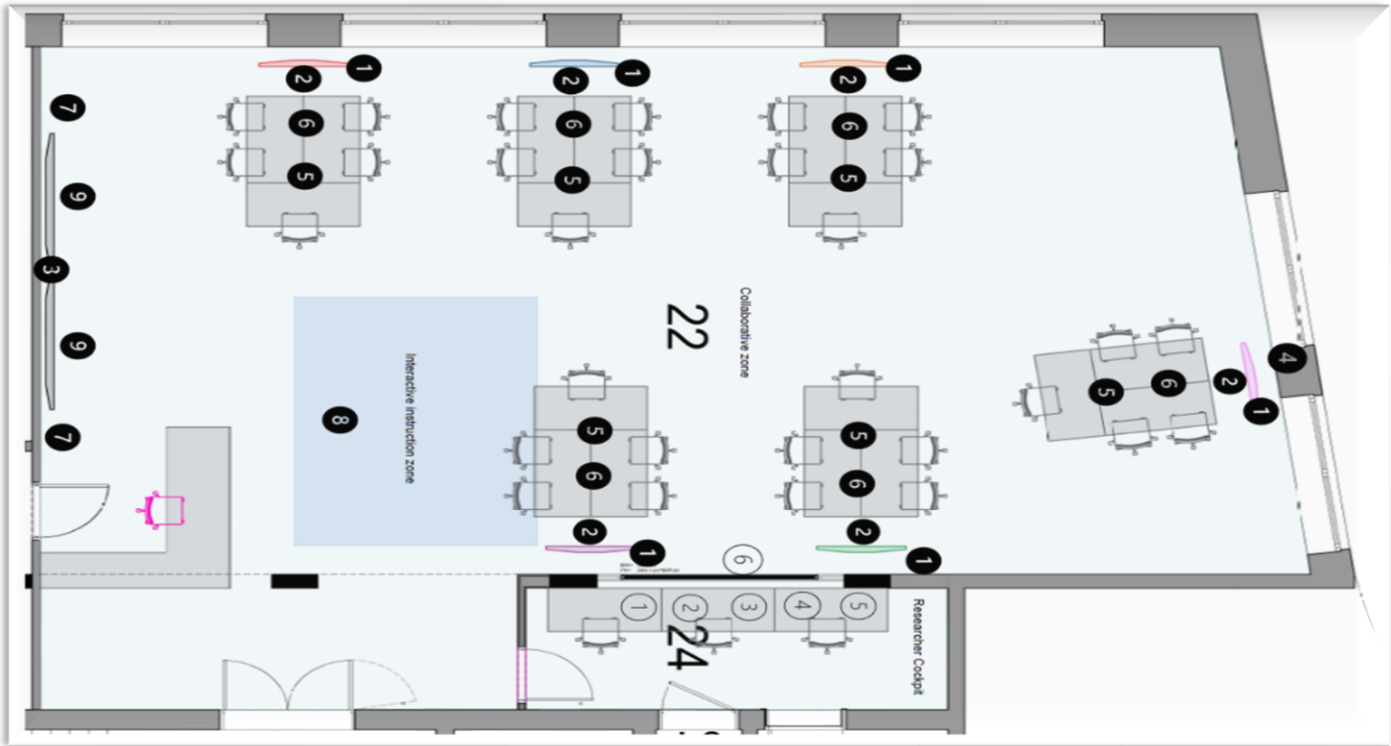


HYBRID COLLABORATIVE CLASSROOM



EUNIS Award for
Best Overall AV-enabled
Education Space 2020
Sponsored by
AVIXA

Hybrid classrooms @Kortrijk



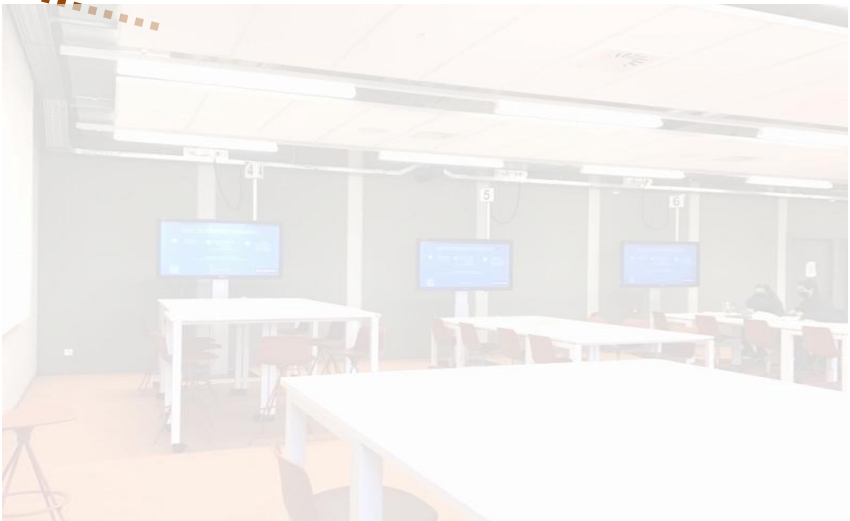
TECOL PROJECT



LECTURE+



Frontal teaching configuration



Interactive teaching configuration



- Facilitate mixed-modality collaborative learning
- Serve as “a living lab” for research and innovation in hybrid teaching and learning

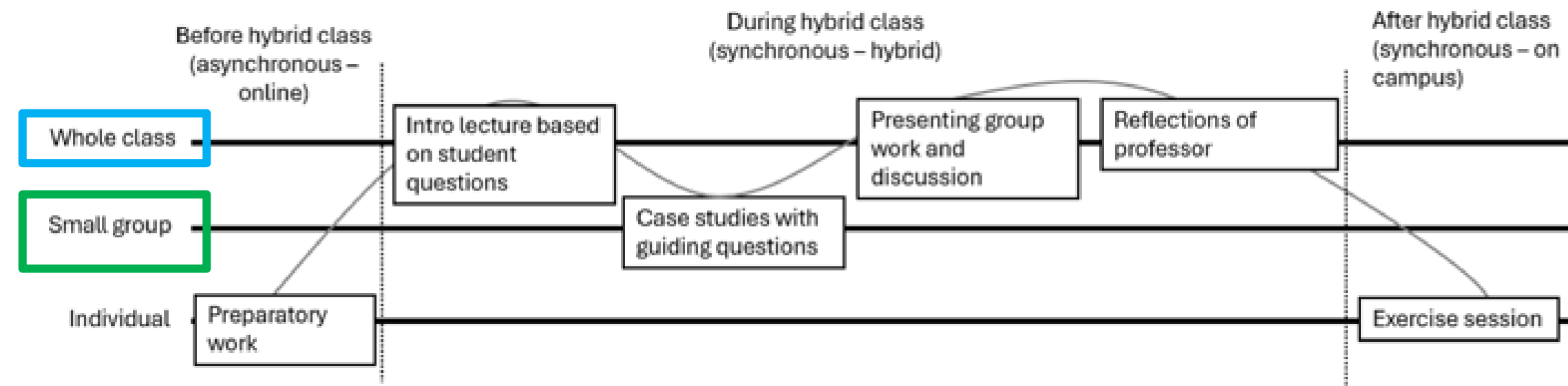


Figure 1. Orchestration Graph of General Physics III

Classroom Orchestration

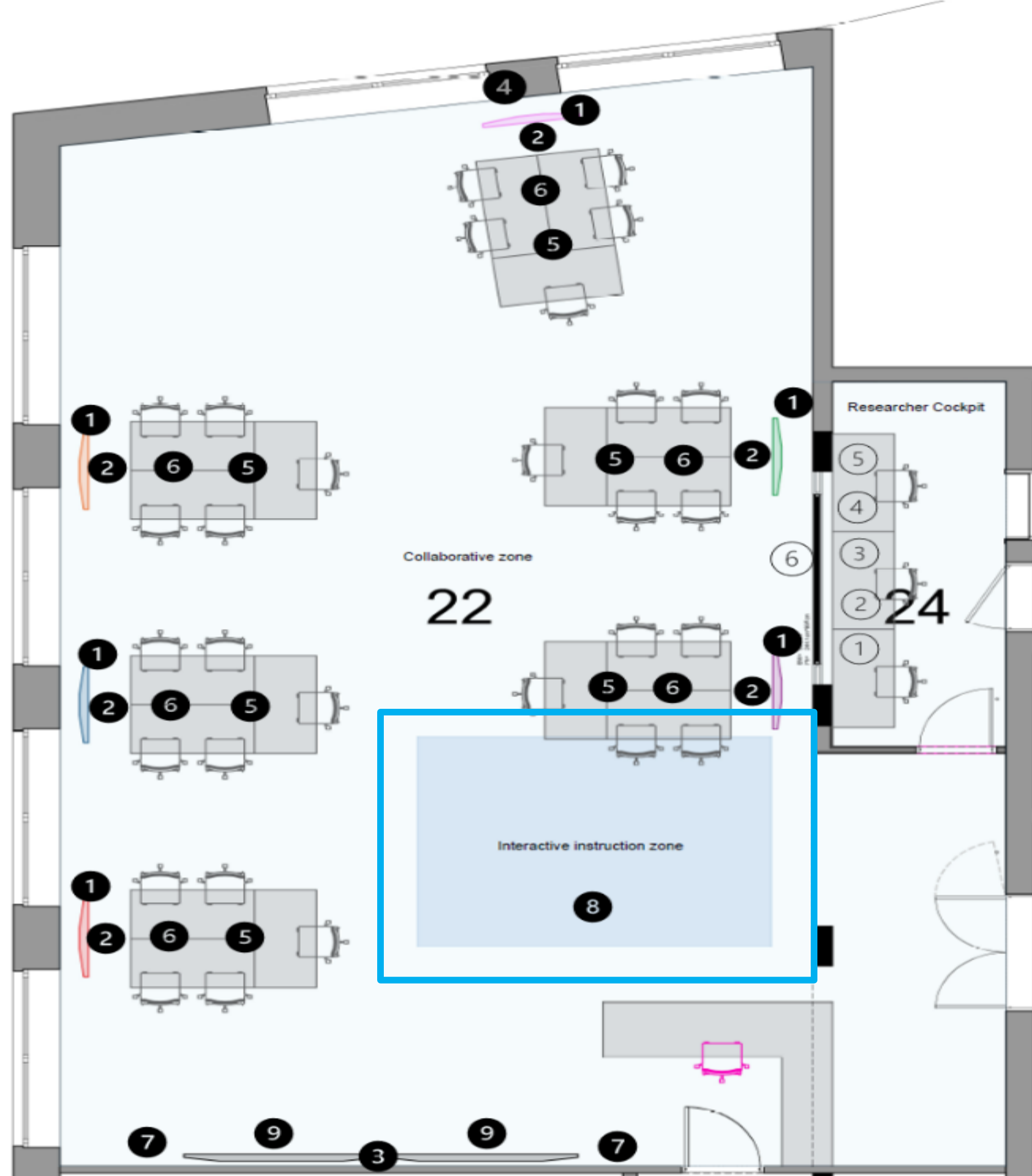
Conducting learning activities "the real-time management of **multi-plane** scenarios under multiple constraints"(Dillenbourg, 2015).

eXgageli

Room mode



Interactive Instruction Zone

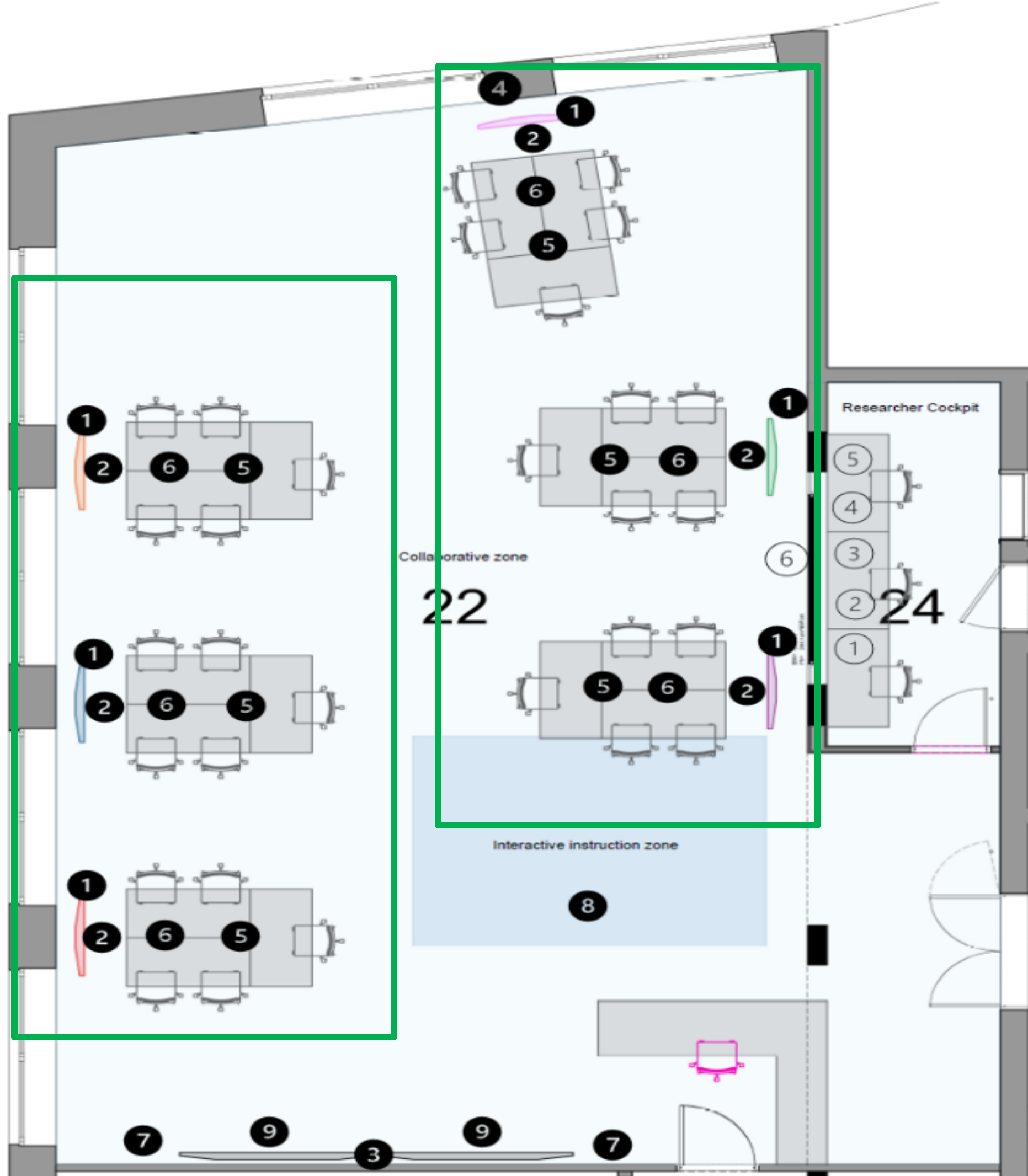


engageli

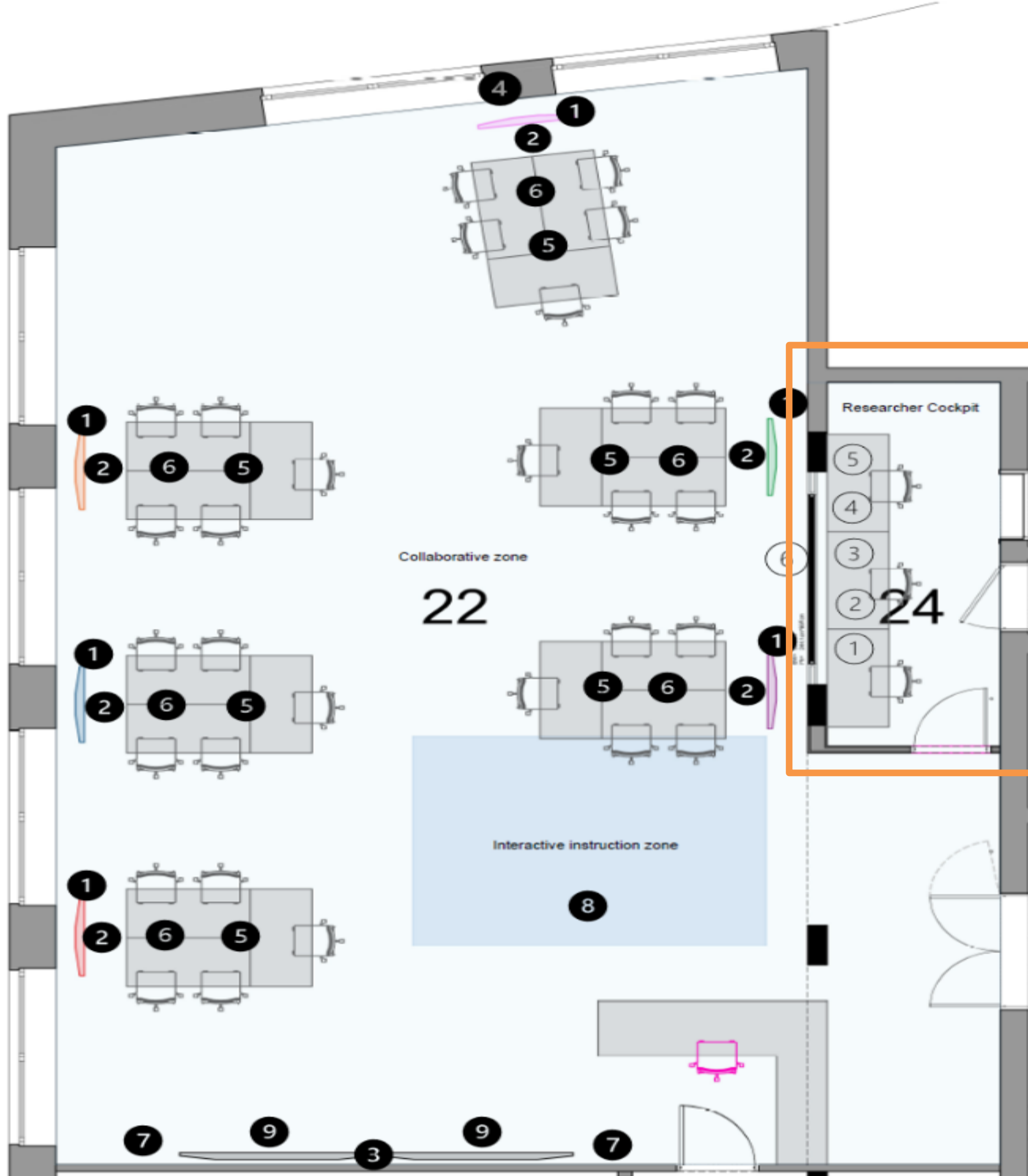
Table mode



Collaborative Learning zone



Researcher Cockpit



TEACHING & RESEARCH IN HYBRID COLLABORATIVE CLASSROOM



TEACHING AND LEARNING



Master of teaching Behavioral Sciences
Oct – Dec 2025



Approaches to Innovative Teaching
Feb 2026



LIVO Seminar
April 2026

- Additional ‘burden’ on teachers (Bower et al., 2015; Ørngreen et al., 2015; Zydney et al., 2019).
- **Teacher orchestration load:** The effort necessary for the teachers to script and conduct learning activities (Cuendet, 2013; Keulemans et al., 2025).

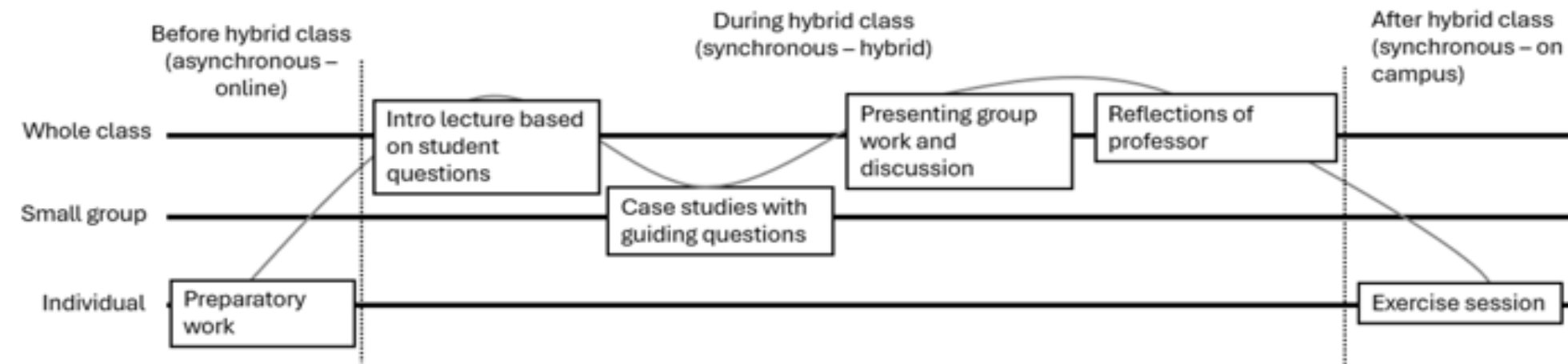


Figure 1. Orchestration Graph of General Physics III

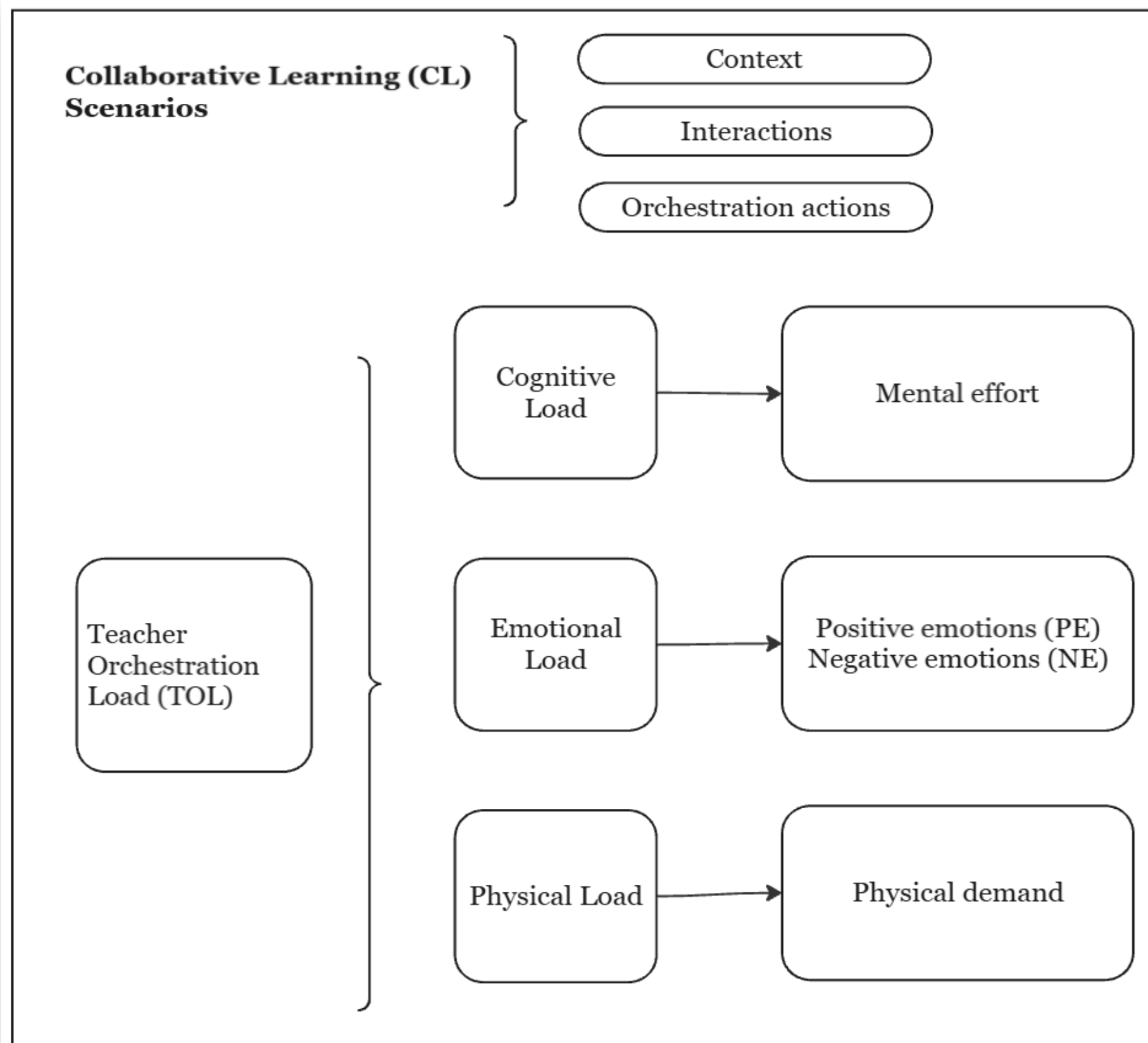
‘I Feel Half as Successful’: Teachers Push to Ban Hybrid Instruction, But Districts Want to Keep It

Teachers want to ban teaching students in person and online at the same time. Some education leaders say it should be what the future looks like.

(Shah, 2021)

Keulemans, T., Depaepe, F., & Raes, A. (2025). *Lightening the load: Unveiling the factors influencing teacher orchestration load in synchronous hybrid education. Learning And Instruction.*

RESEARCH



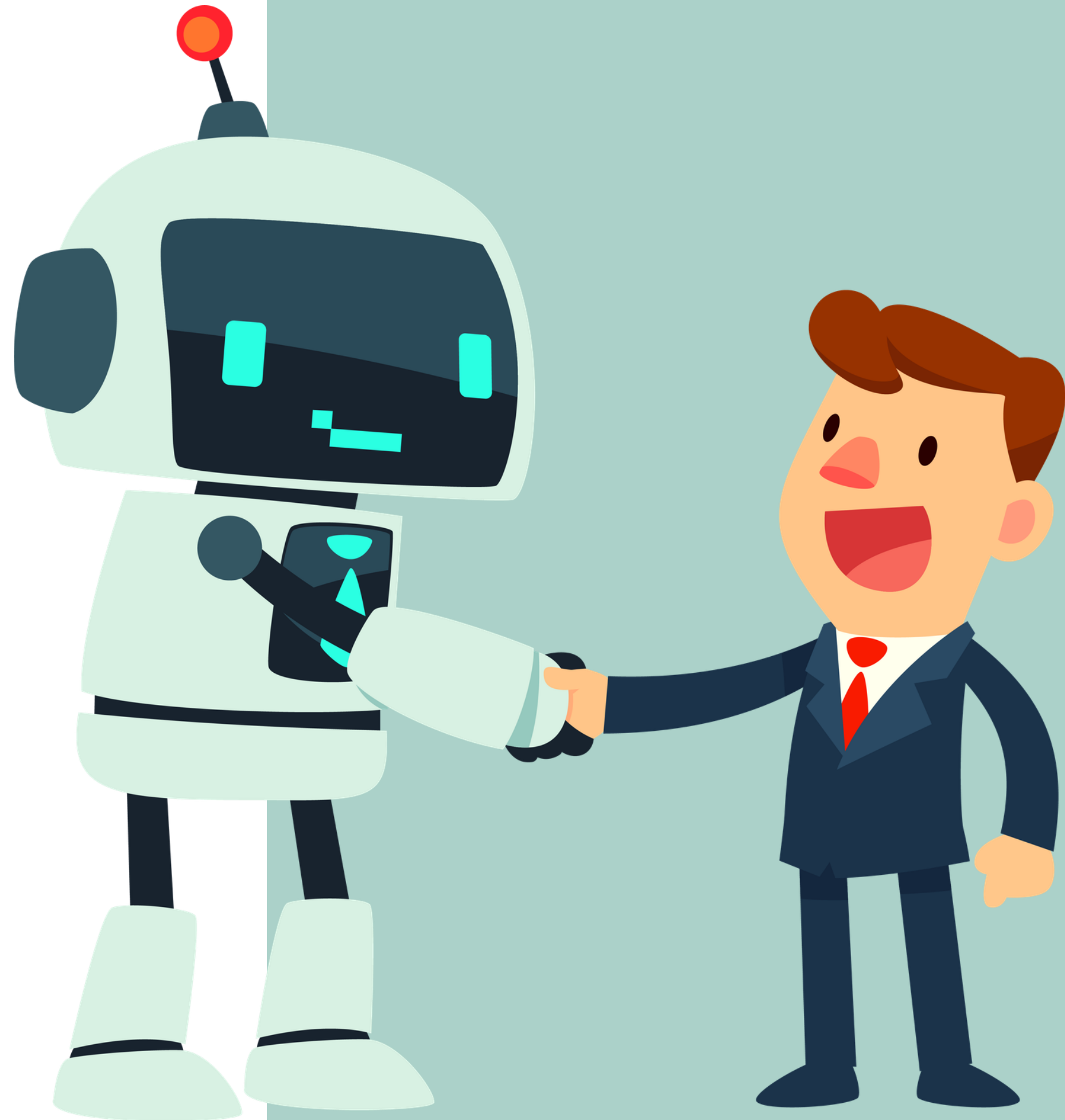
Project: **Co-orchestration** of **Collaborative Learning** in **Synchronous Hybrid Education**

How Can I Teach Effectively in Synchronous Hybrid Education?

- Investigate **the factors** contributing to **high orchestration load** for teachers in collaborative SHE settings.
- **Design interventions**
 - Reduce teacher' orchestrations load
 - Facilitate the engagement of (remote) students

GROUP DISCUSSION

How can we move forward together?



If you could change one thing- pedagogical, technological, or spatial - to improve the Hybrid Collaborative Classroom, what would it be, and how would you implement it?

PRE-CONFERENCE_MEDIA &
LEARNING 2026_GROUP
DISCUSSION



Let's Talk!

We are interested in hearing
your feedback and questions.



Contact: khanhthy.tran@kuleuven.be

