



Co-funded by the  
Erasmus+ Programme  
of the European Union



# Module 1

## Education 4.0

### Example of Future School



Erasmus+

# EDUCATION 3.0

- **Student-Centered approach**
- **The teacher is transformed into a Coordinator/facilitator, advisor, learner and practice guide**
- **The student is researching more**
- **VR to support Flip classroom**
- **More dialogue, technology is everywhere, the student is self-learning and everywhere.**
- **The classical style classroom no longer exists**
- **Lesson Plans are converted into ...**

*... Learning Plans*



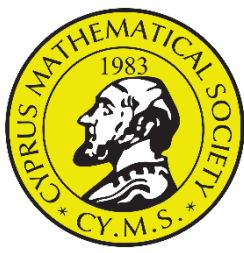
# **EDUCATION 4.0**

- **Co-creation and innovation in the centre**
- **Whenever and Wherever**
  - Hybrid Learning Environments**
  - Interactive practical exercise – F2F or Distance**
- **Learning is done outside schools, while in school premises students develop competences and skills**
- **Learning Plans are now called Learning & Creativity Plans**
- **The technology**
  - Its free or/and easily accessible,**
  - Increased use of virtual reality, artificial intelligence ,etc**
  - Continuous evolution and innovation and therefore a need for development of Competences and Skills so people become Adaptable to Change**

# EDUCATION 4.0

Four core components are integrated to shape the concept of Education 4.0:

- (i) Competencies development through IBL, PBL, CBL...internships, blended learning. Micro-credentials the competence and skill factor.
- (ii) Learning Methods (Digital Learning via BYOD )
- (iii) Information and Communication Technologies (VR, AI, etc)
- (iv) Infrastructures, Learning Spaces, Learning Communities

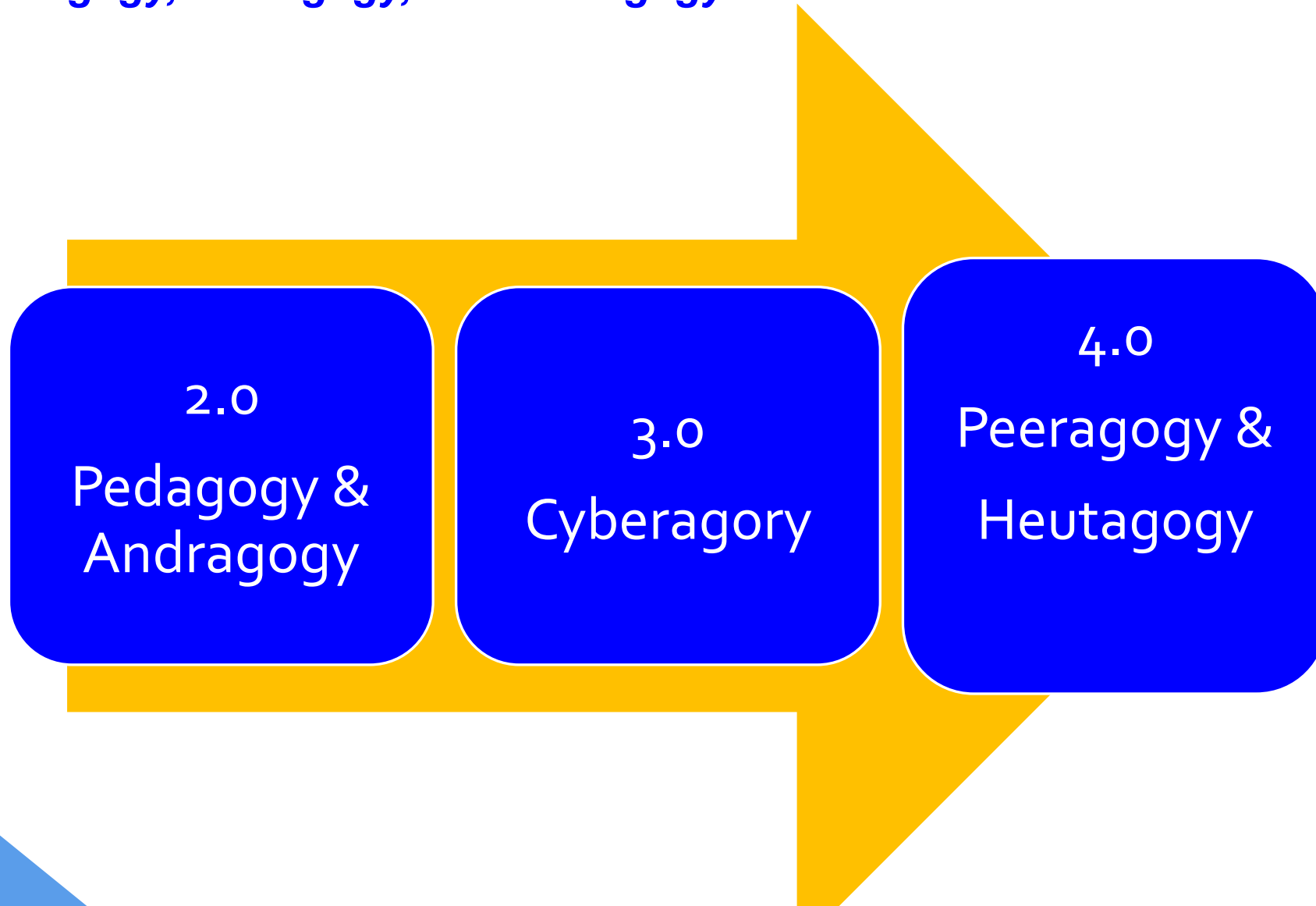


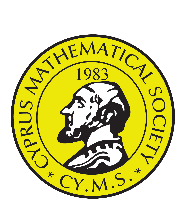
2.0  
Lesson Plans

3.0  
Learning Plans

4.0  
Learning  
&  
Creativity Plans

# The evolution of Pedagogy and Andragogy into *Cybergogy, Peeragogy, and Heutagogy!*





Erasmus+

# Architectural Designs and Animations

## Infrastructures of the future



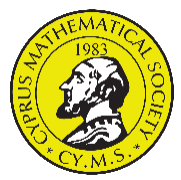
# A learning space of the future



VectorStock.com

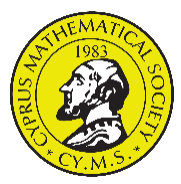






A learning space of the future





# Specs Basement

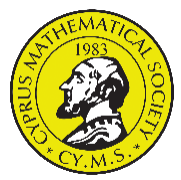
## BASEMENT

- STEAME THEATRE

### MAIN LABS

- B1.1 Main Biology Lab
- B1.2 Main Chemistry Lab
- B2.1 Main Physics Lab
- B2.2 Main Mathematics Lab
- B3.1 Main Construction and 3D printers Lab
- B3.2 Main Environmental Lab
- B4.1 Main Robotics Lab
- B4.2 Main Computing and Software Lab
- B5.1 Main Prototype Development Lab
- B5.2 Main VR Centre Lab
- B6.1 Main Skills and Talent Development Lab
- B6.2 Main STEAME Communication Lab

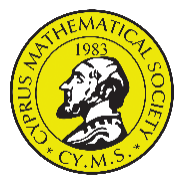
- Additional VR rooms
- Learning stations
- Entry into amphitheatres



# Specs Ground Floor

## Satellite Labs

- G3.1 Biology-Chemistry S-Lab
- G4.1 Physics-Mathematics S-Lab
- G5.1 Industry Liaison Office
- G5.2 Virtual Business Centre
- G1.1 Robotics – Computing –Multimedia S-Lab
- G1.2 Sound-proof student meeting room
- G2.2 Construction- Environmental S-Lab
- G2.1 Sound-proof student meeting room
- G3.2 Sound-proof student meeting room
- G4.2 STEAME Museum for learning
  
- Individual Learning Stations as private u-shape booths
- Open space movable furniture for small group work by students
- Courtyard
- Reception area
- Entry into amphitheatres



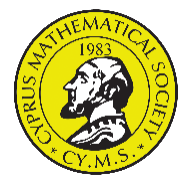
# Specs

## First floor

### THE VERY QUIET FLOOR – THE IDEAS FLOOR

- Open space flexible movable furniture for student groups
- Co-creation Train moving ...with group siting stations
- Learning Centres/Rooms
- Additional Learning Stations
- Entry into amphitheatres
- Slow Moving STEAME train
- Administration offices



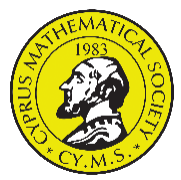


# Specs Roof

- Recreation spaces
- Cafeteria
- Garden and Lake
- Photovoltaics
- Football court
- Athletic field
- Open Amphitheatre



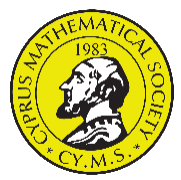




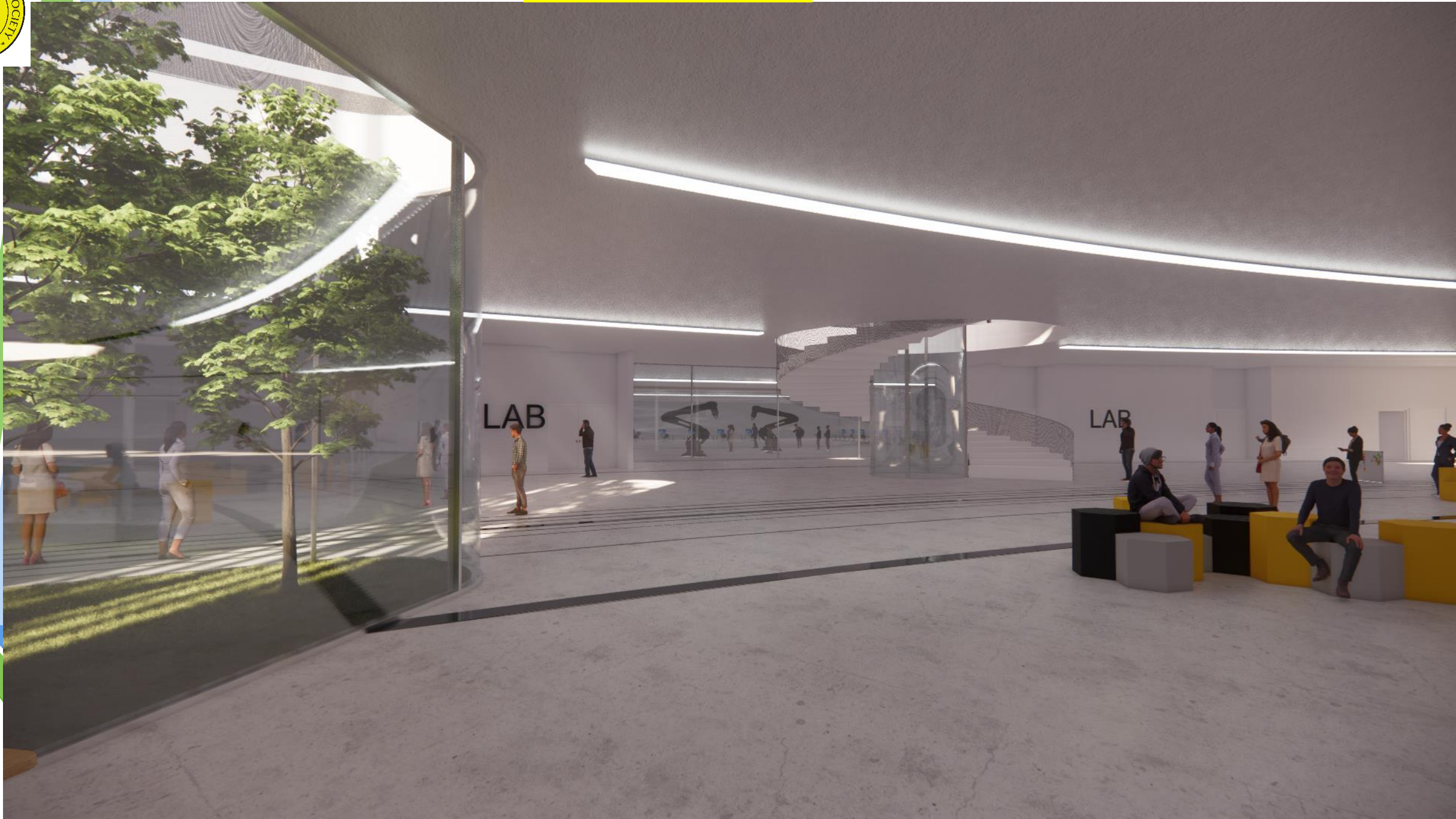
# MULTI-SPORTS FIELDS OF THE FUTURE

[VIDEO](#)

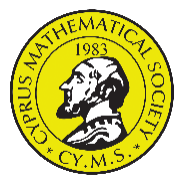




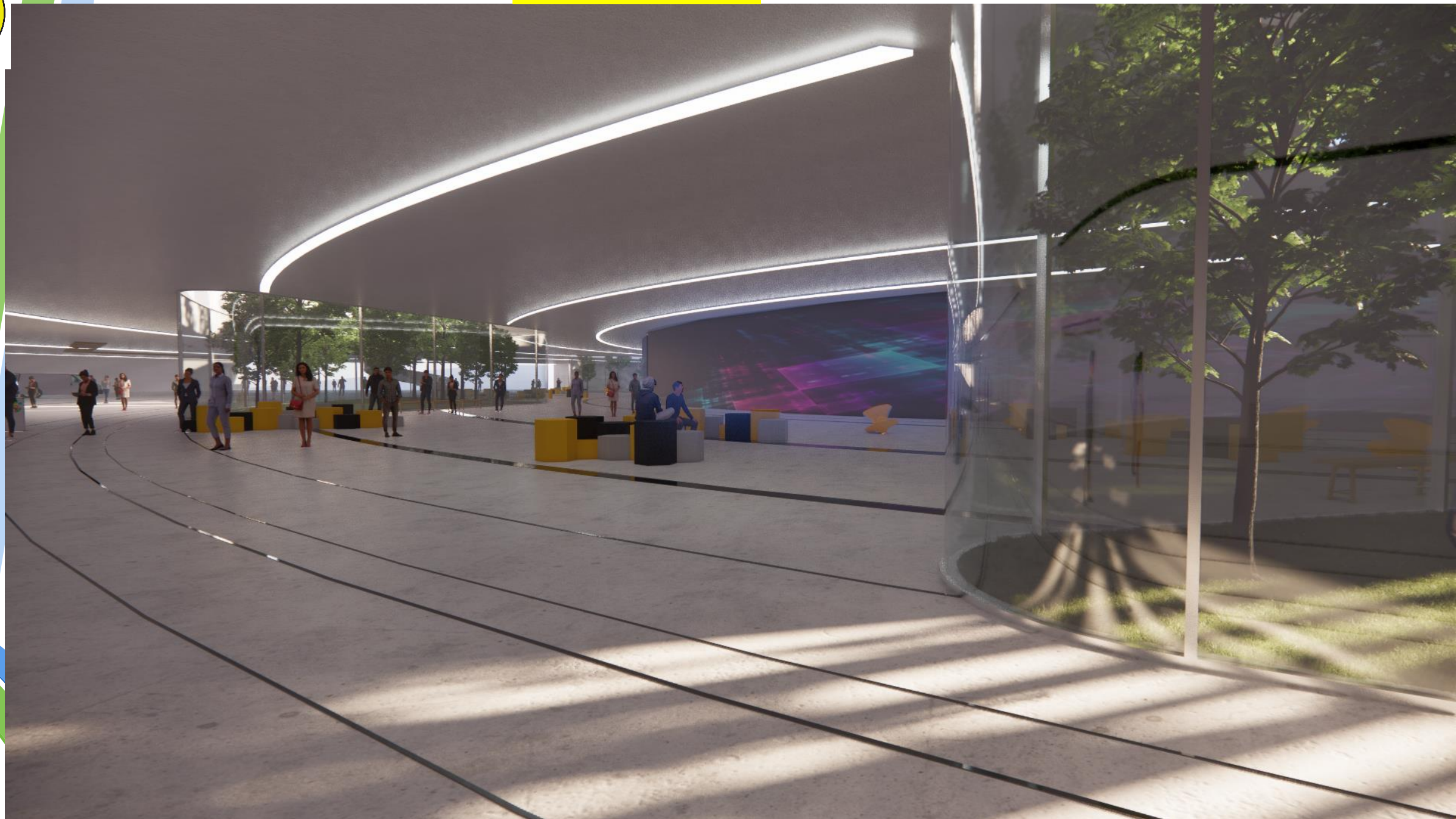
# BASEMENT LABS



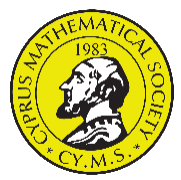




# BASEMENT VR



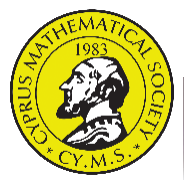




# GROUND FLOOR LEARNING STATIONS - HEUTAGOGY



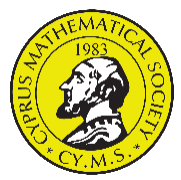




## FIRST FLOOR LEARNING ROOMS - PEERAGOGY



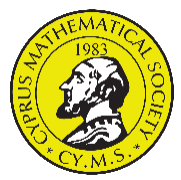




FIRST FLOOR TRAIN







## FITST FLOOR LEARNING ROOMS



## FITST FLOOR VIEW



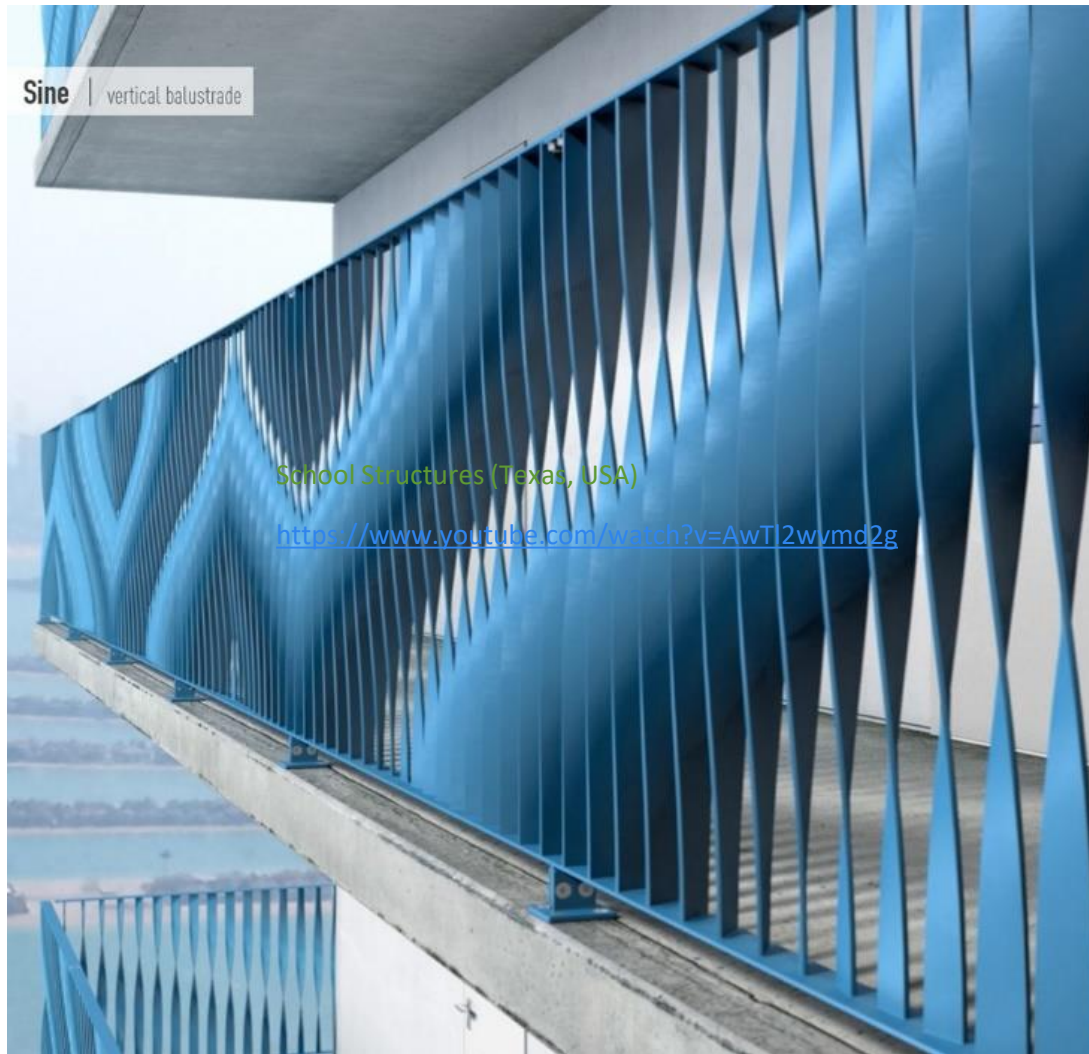


# Colour of Learning SPACE could change every day



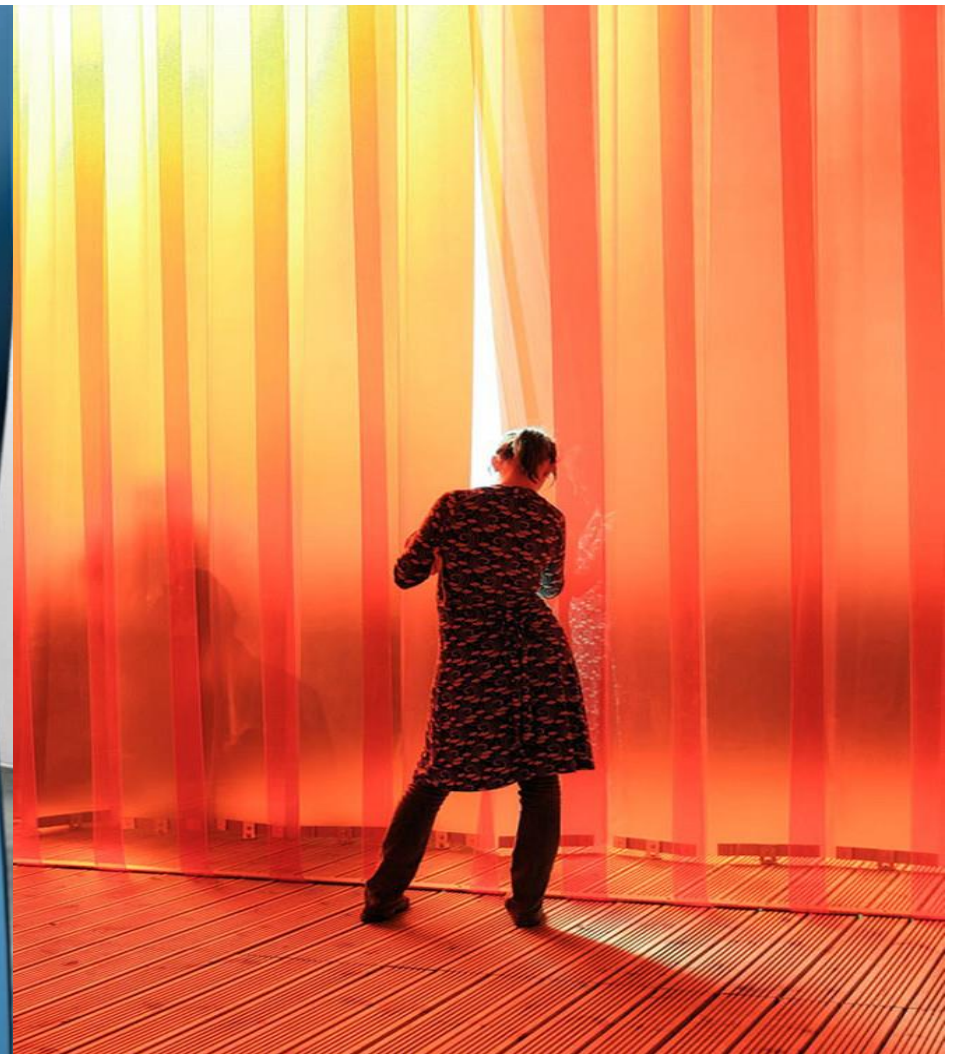


# Colour of SPACE changes every day



School Structures (Texas, USA)

<https://www.youtube.com/watch?v=AwTl2wymd2g>

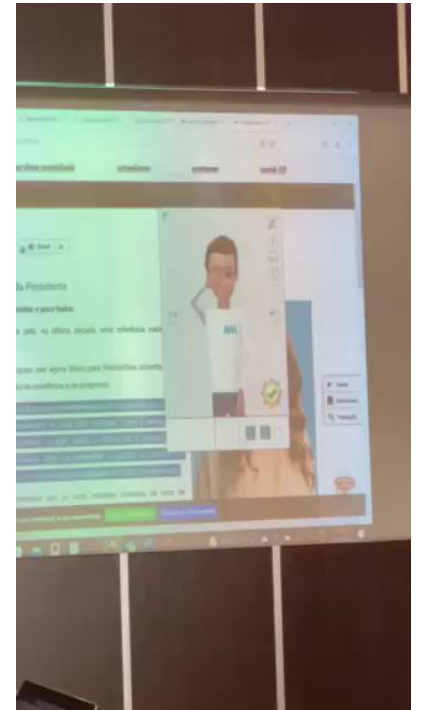


# New Elements as a course in all Programmes of study

- International Sign Language (IS) to be learned by all



InSign- Advancing inclusive education through International Sign



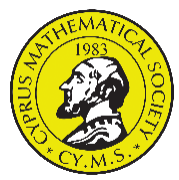


Erasmus+

## LEARNING SPACES of the future

- **Architectural Designs in short animation**





Erasmus+

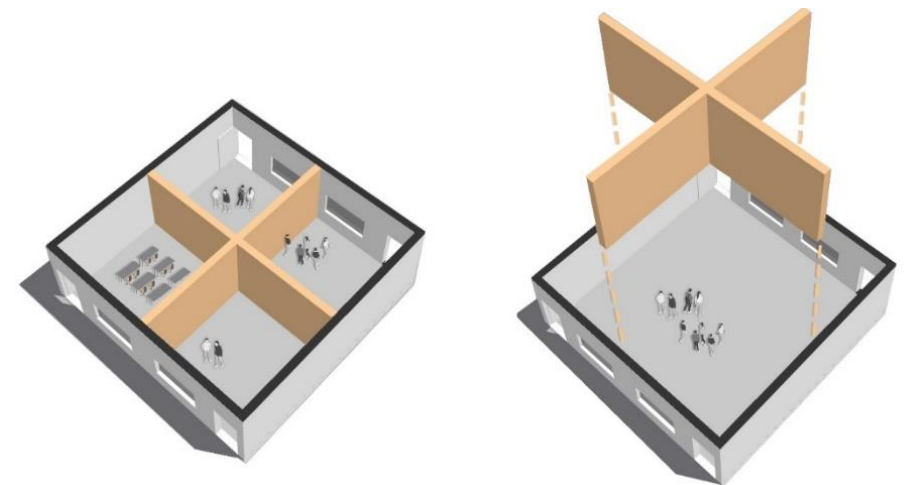
# STRATEGIC ACTIONS

**How can we change current learning structures in school into project based learning structures and spaces?**

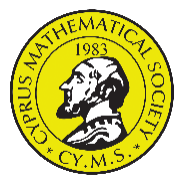
## **3 Steps for change from Education 2.0 to Education 4.0**

- Step 1. Secure digital learning through learning videos created by teachers.
- Step 2. Train and support teachers how to cooperate between different disciplines and how to develop(co-create) PB Learning & Creativity plans. Train and support teachers how to cooperate with other academics and industry and how to do PB related activities in hybrid environments. .
- Step 3. Create open spaces in current learning Infrastructures or build the new learning premises with more open spaces for project based cooperative work between students.

**RESOURCES:**







SCHOOL LABEL



Erasmus+



Co-funded by the  
Erasmus+ Programme  
of the European Union



**CERTIFICATION**  
**STEAME HYBRID SCHOOL LABEL**  
**3 YEARS VALIDATION**

THIS CERTIFICATE IS AWARDED TO

*SCHOOL NAME*

Which certifies it has completed and passed the full  
STEAME Hybrid School Label Certification Programme

Date

Signature



IDEA

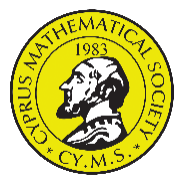


UNIVERSITY OF THE  
AEGEAN



leafnet





Co-funded by  
the European Union

# *THE FIRST ever app from Students for Students!*

WEB-LINK



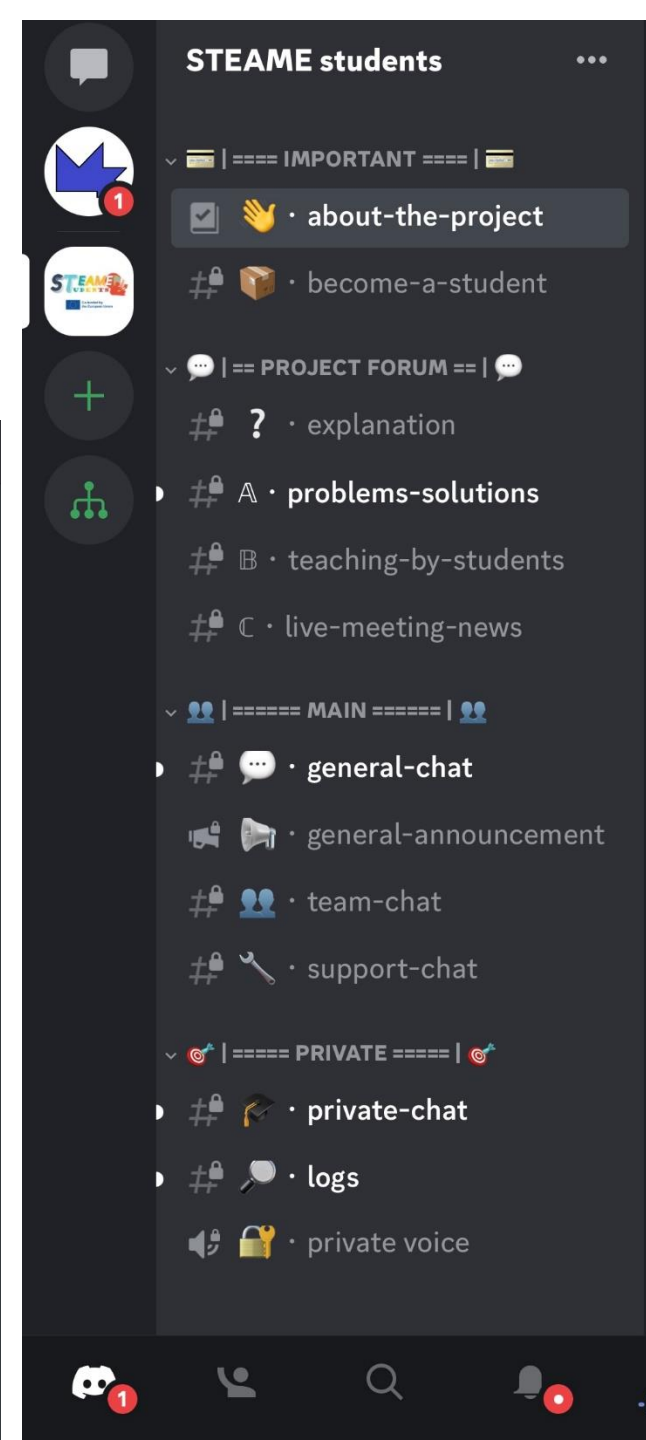
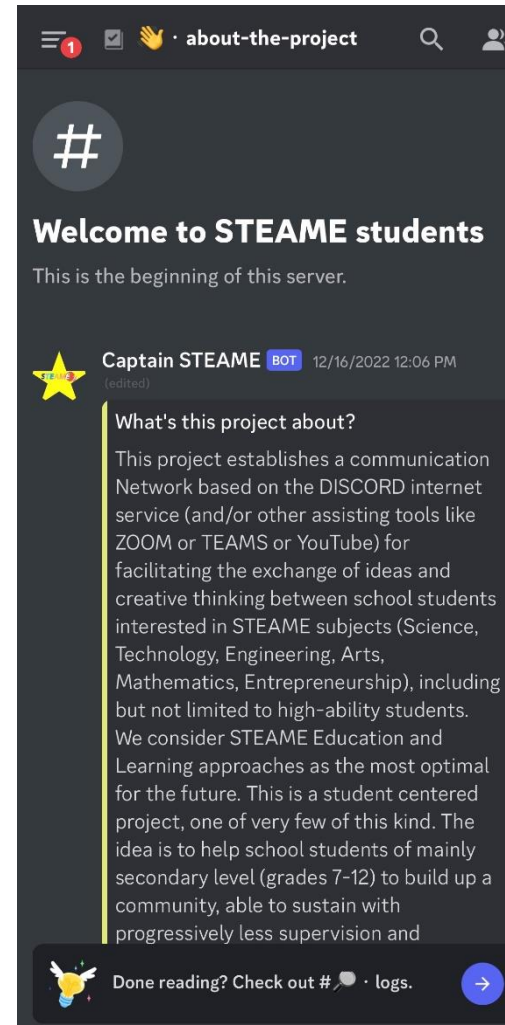
LINK to GF



<https://forms.gle/WF9qb3JPdufxn8Rk9>

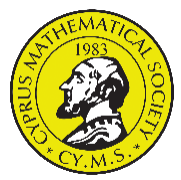


Use the QR code for direct access to the STEAME Students platform. Crawl through an easy registration and explore a new universe in the familiar galaxy of STEAME DISCORD app.



**Students are  
ready,  
.....we are  
not ready for  
them!**





Erasmus+

## **STEAME TEACHER FACILITATORS ACADEMY**

The main innovations to be delivered by this project are:

1. STEAME Teacher Facilitators Competence Framework for student and serving teachers
2. STEAME Teacher Facilitators Learning Modules/Workshops
3. International Sharing Observatory for STEAME Learning Facilitators
4. Development of the STEAME Facilitators Community of Practice/Mentoring and Certification Programme
5. Policy Recommendations – European Federation of STEAME Teacher Facilitators Academies