

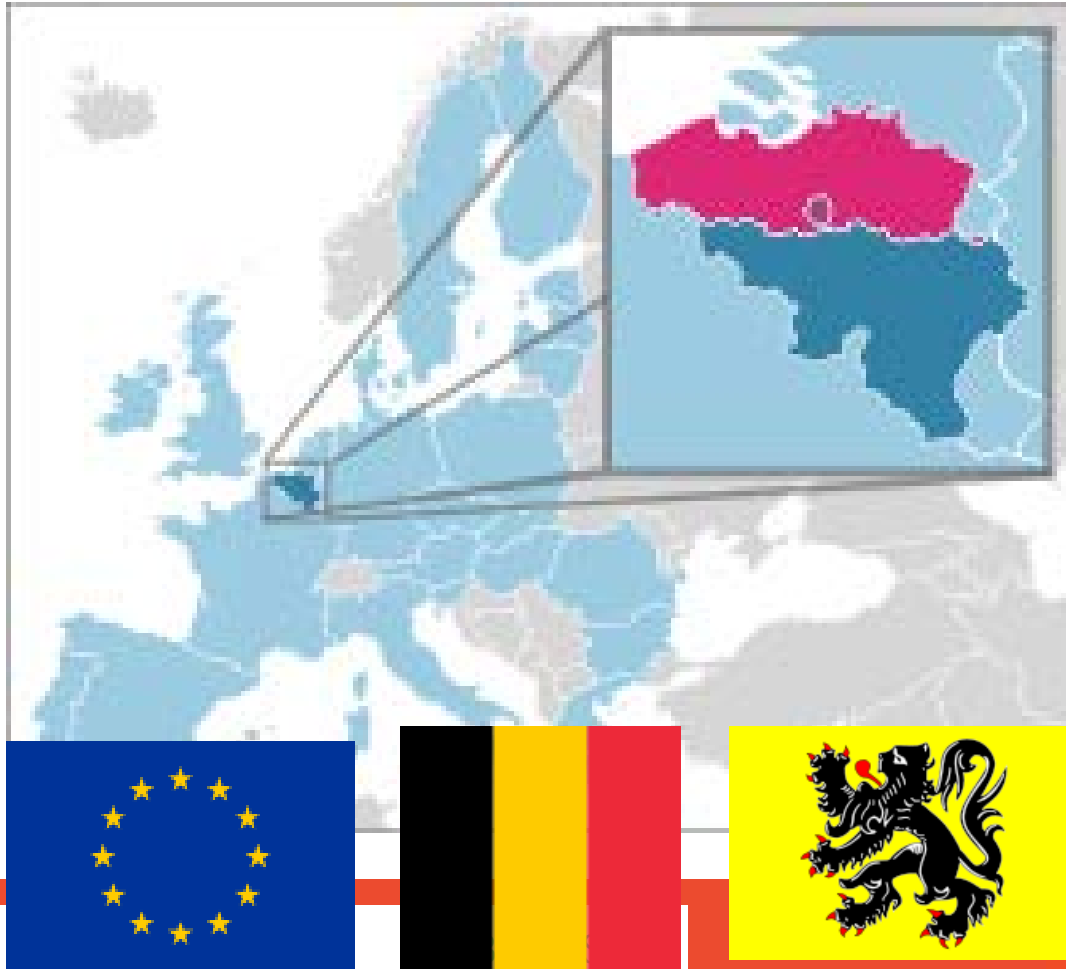
Development of EEmbedded System  
Courses with implementation of  
Innovative Virtual approaches for  
integration of Research, Education and  
Production in UA, GE, AM





- Belgium - Flanders - Thomas More
- Goals of DESIRE
- Partners
- Management structure
- Work Packages
- Equipment
- Lessons Learned
- Risk definition & mitigation
- EASOT

# FLANDERS



# FLANDERS





# THOMAS MORE?

THOMAS  
MORE

- University College in Flanders - Belgium
- 14.000 students
- Campuses in:
  - Antwerpen
  - Geel
  - Lier
  - Mechelen
  - Sint-Katelijne-Waver
  - Turnhout
  - Vorselaar
- 30 Professional Bachelors in 7 study areas



- STEM-campus
  - Science
  - Technology
  - Engineering
  - Mathematics



- **DesIRE Wider Objectives:**
  - to change the theoretical type of learning in Ukraine, Georgia and Armenia to practice-oriented competence-based approach
  - to speed up integration between HEIs and business in target countries
  - to establish cooperation between EU and target countries in education and research

- **DesIRE Specific Project Objectives**
  - to create practice-oriented curricula and modules in Embedded Systems
  - to create remote laboratories in Embedded System in UA, GE, AM
  - to form the competences necessary for the Labor Market in Embedded Systems

## Knowledge triangel



# EMBEDDED SYSTEMS



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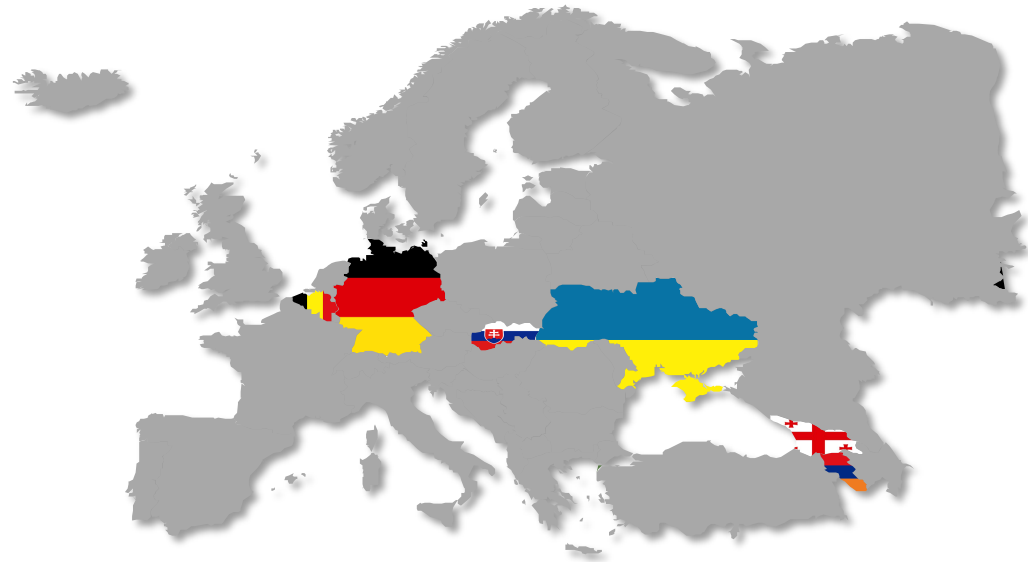
# NEW TEACHING APPROACHES

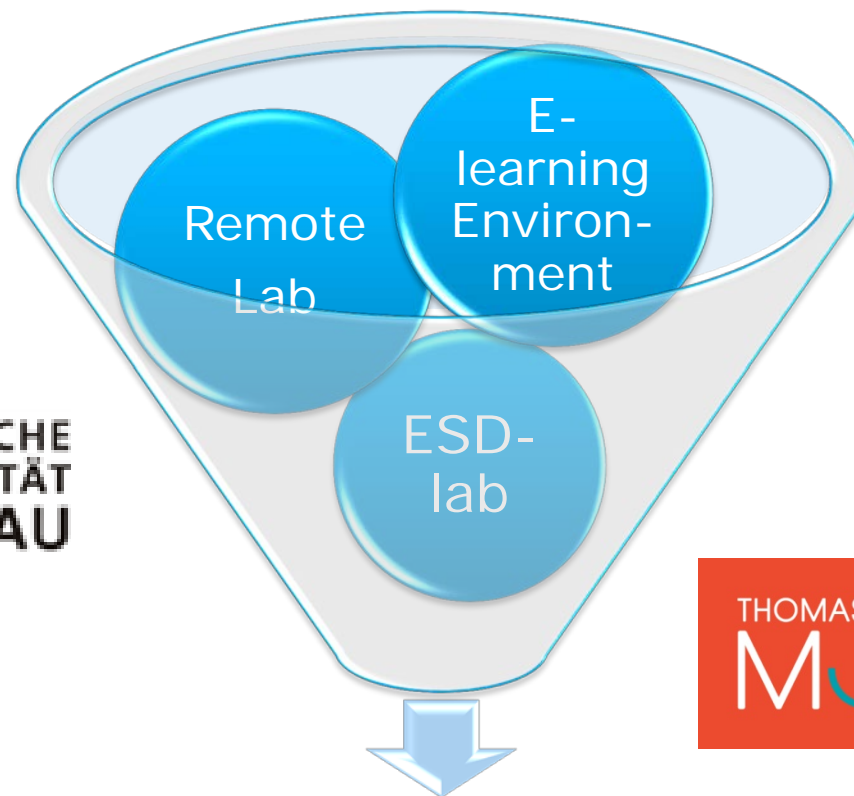


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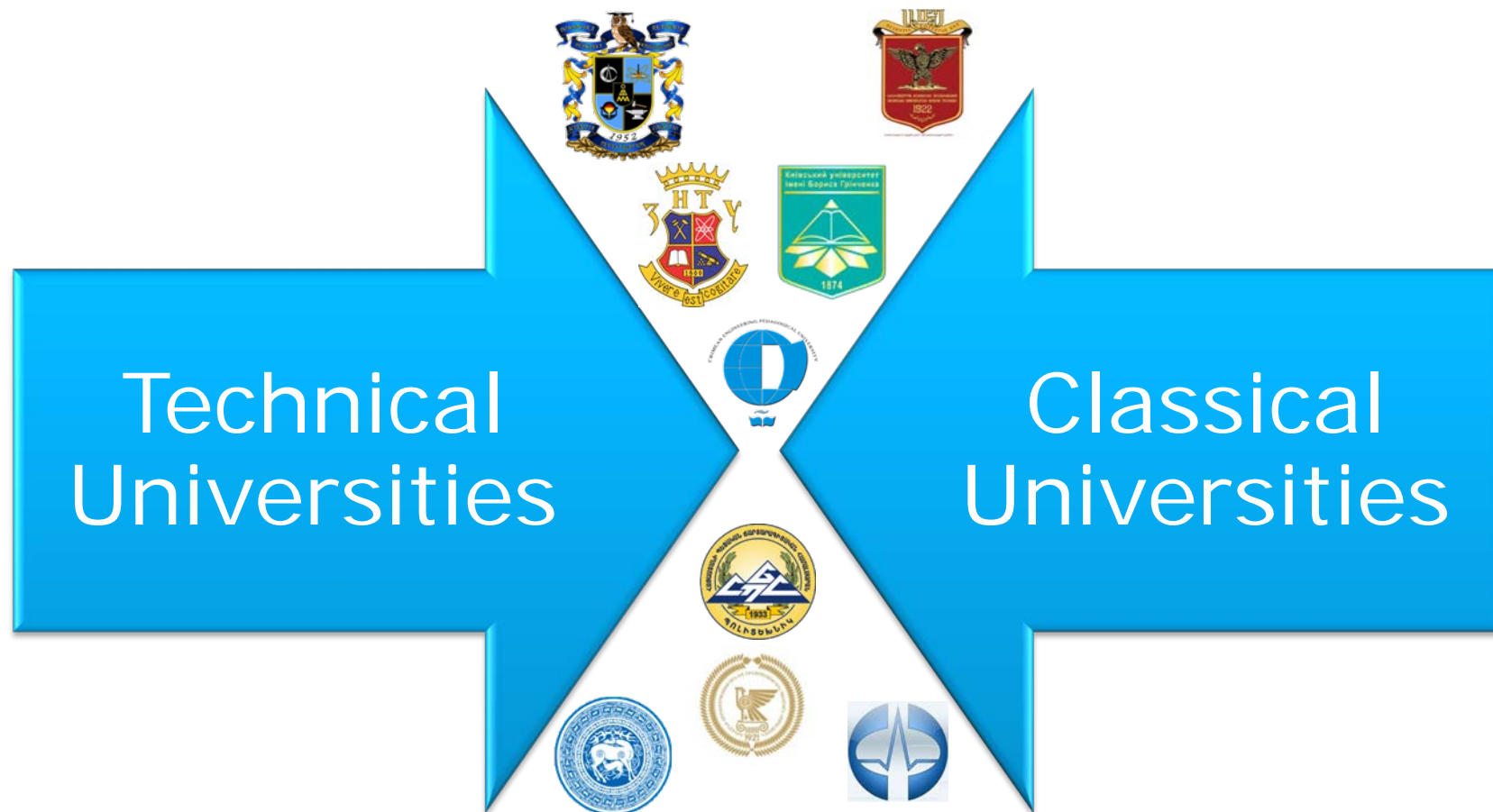


- Partners in 6 countries
  - Belgium
  - Germany
  - Slovakia
  - Ukraine
  - Armenia
  - Georgia



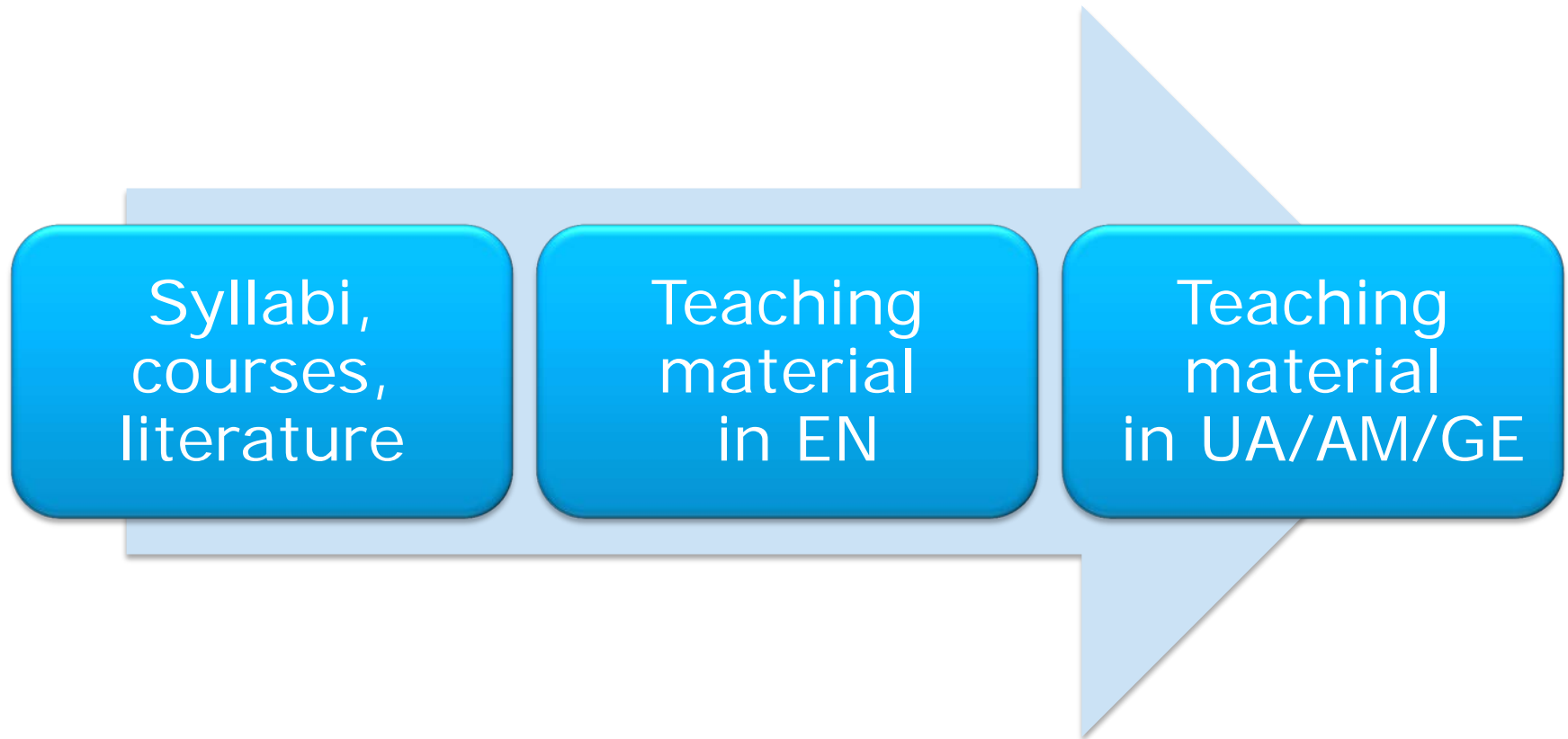


## Practical-Oriented Embedded System Curricula





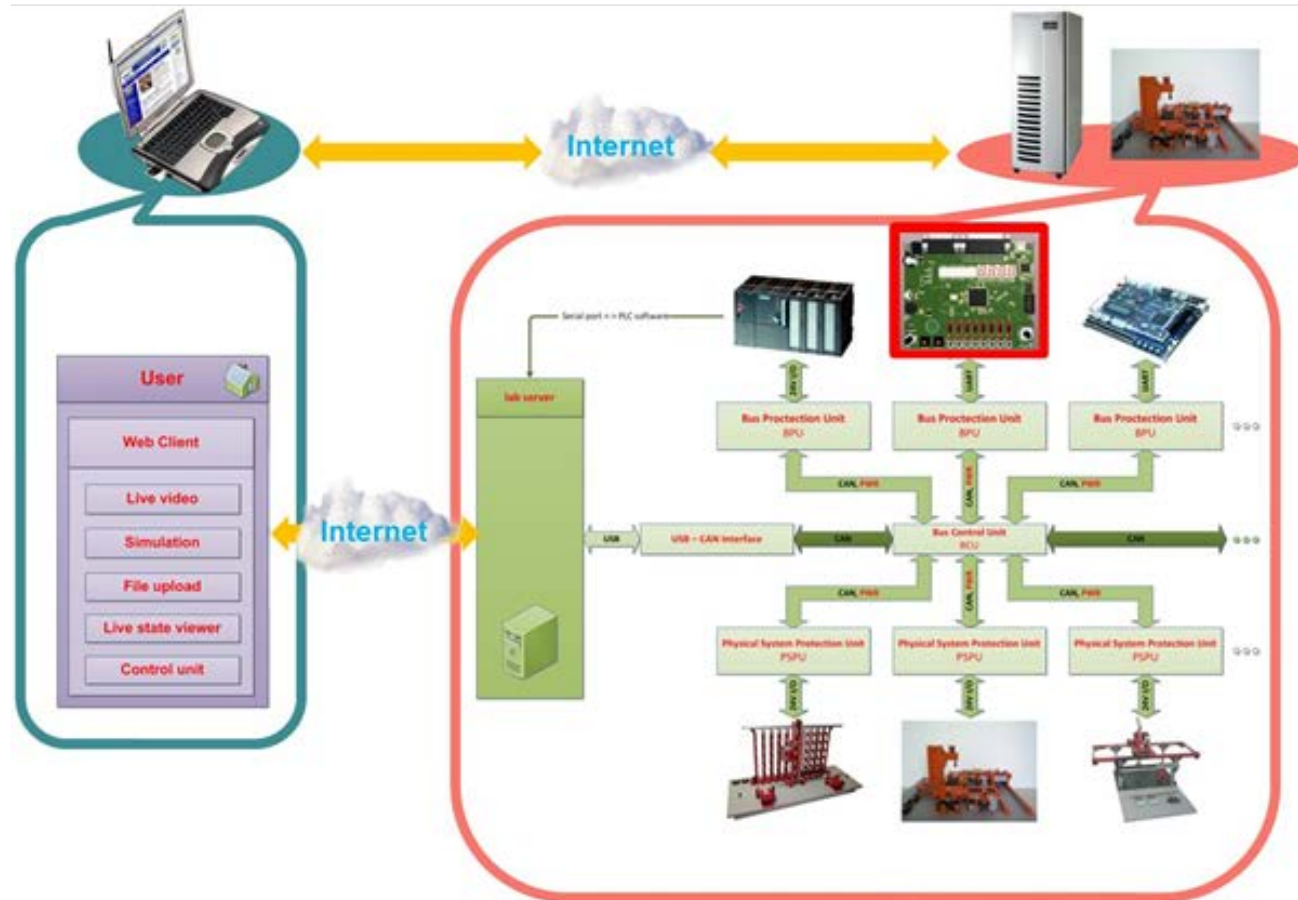
- WP1: Analysis of current curricula and competences in Embedded Systems in TC
- WP2: Curricula modification and courses development
- WP3: Implementing a (virtual) learning environment in ESD eng. Establishing remote and ESD labs.
- WP4: Retrain academic teachers on ESD engineering and virtual learning platforms
- WP5: Pilot teaching/operation
- WP6: Quality Assurance and Quality Control
- WP7: Dissemination and Enterprise Collaboration
- WP8: Management of the project



# EQUIPMENT: REMOTE LAB



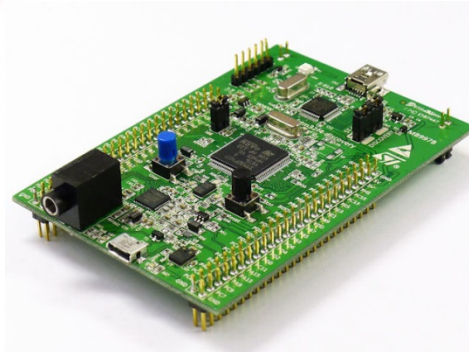
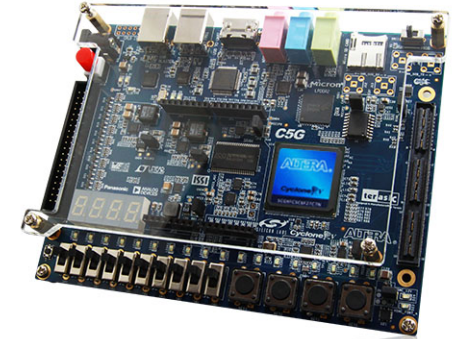
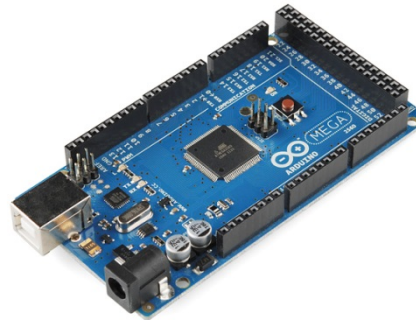
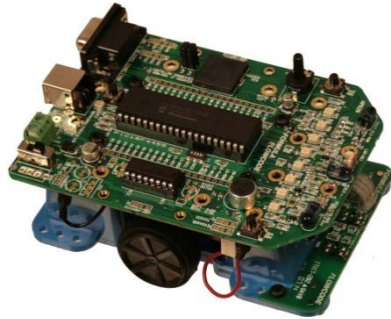
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# EQUIPMENT: ES DESIGN LAB

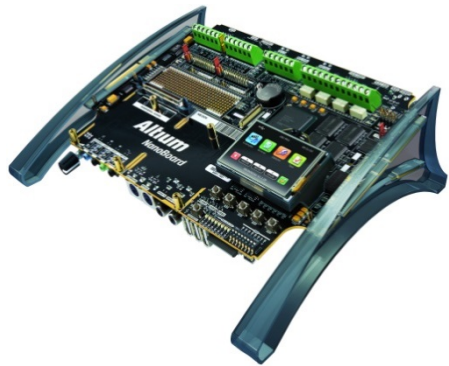


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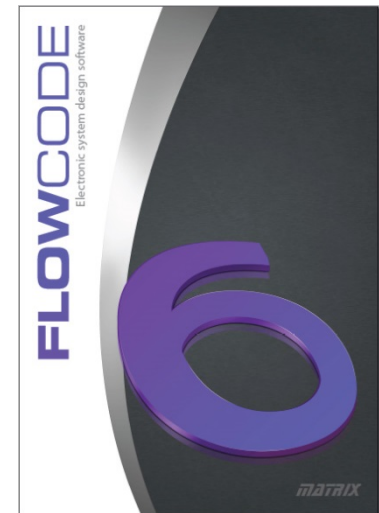




# Altium



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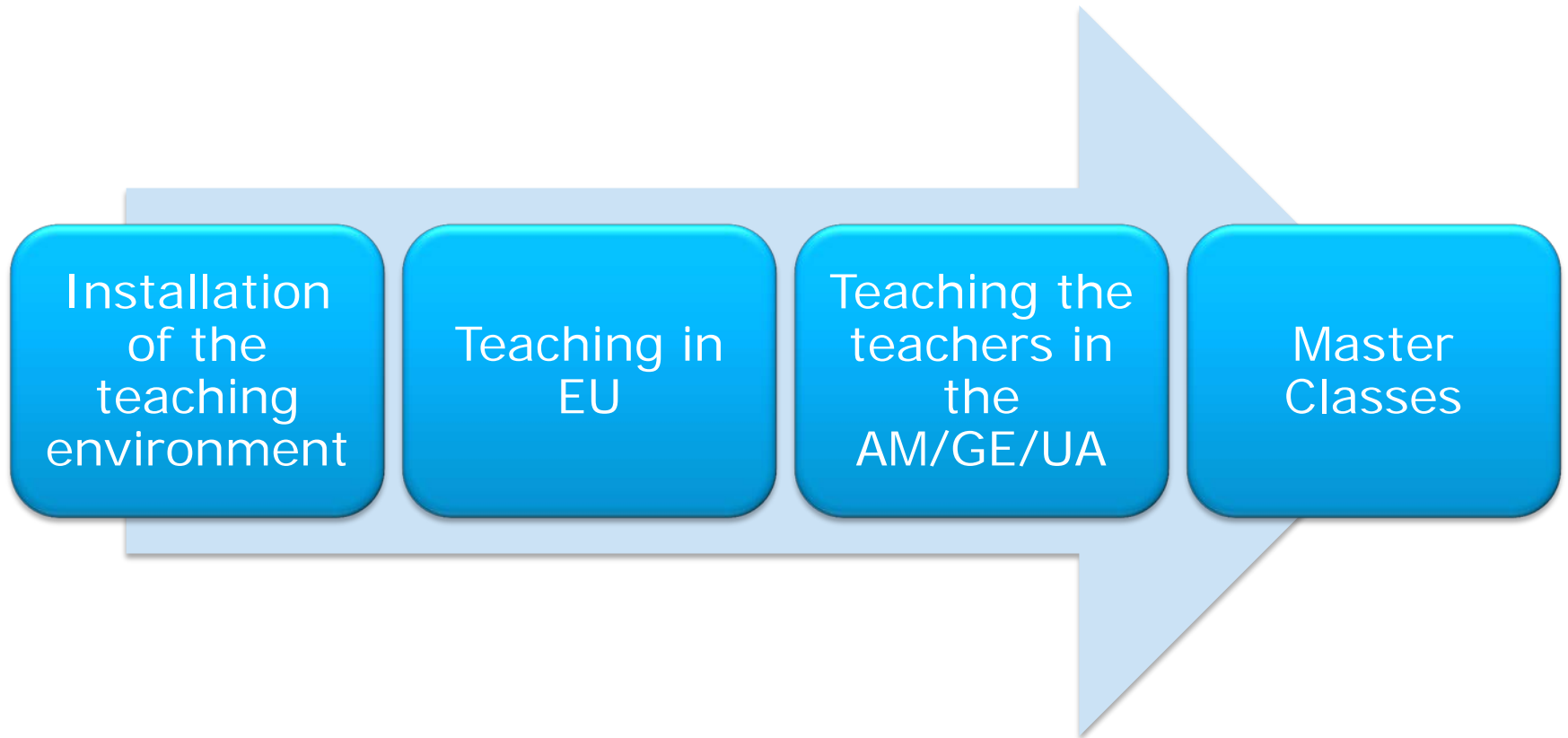
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# LAB COMPUTERS



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## Analysis

- Curricula in ESD
- Competences
- Self work
- Labor Market requirements

## Development

- New Courses
- ESD-lab
- Remote -lab
- E-learning environment

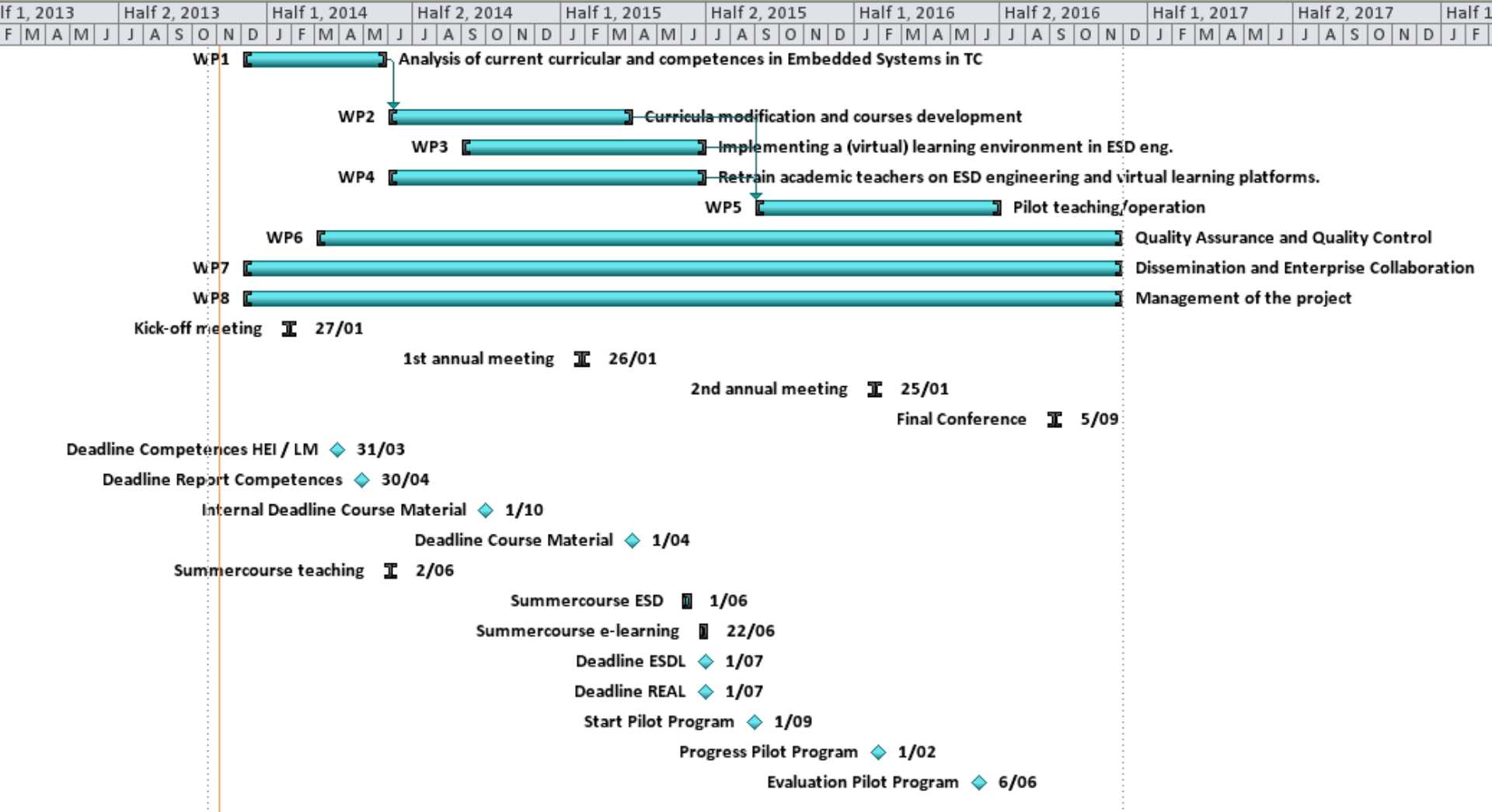
## Monitoring

- Project Progress
- Product/Process Quality
- Efficiency of Self Study
- Enterprise-HEIs collaboration

# TIMING



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- <http://www.tempus-desire.eu>



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