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Objectives

- Shared IT infrastructure for teaching materials and learning resources
- Networking of project partners from HEIs and SMEs
- Shared server infrastructure, e-learning resources and remote access to the CAD tools
- Pilot test
- Implementation of jointly developed cloud-based open educational resources
Networking of project partners from HEIs and SMEs

Meetings business - academia

Training events

mClouds feasibility analysis, Toulouse
Training of course developers, Torino

Teachers’ training, Bucharest
Training of system officers, Berlin
Development of mClouds

Shared IT infrastructure, e-learning resources and remote access to the CAD tools
Development of Open Educational Resources (OERs)

4 OERs developed by business partners

18 OERs developed by academic partners

Operation of Micro Hot Plate devices

Main advantages: high temperatures, high ramp rates, with very low power consumption.

Optimization criteria:
- Minimal membrane bending at high temperatures
- Temperature uniformity over the membrane
mClouds Users During the Pilot Test - 828 users from 9 EU Countries
Summary of Results from Industrial Experts

- All developed courses are considered to fulfil a more than average need in short term

- In long term the industry will need even more skills and competences in the proposed topics

- We can conclude that the university world is close to the industry needs in the sector of microelectronics.

- 1128 participants in the pilot test and field trial!
Conclusions: Long Term Benefits

- All EU HEIs delivering education in micro-/nanoelectronics could be involved in European educational cloud.
- The cloud-based content in OER has three main advantages for the sustainability of the results:
  - resources for initial e-learning development and systems/networks creation are the only high investments unlike the face-to-face delivery of education
  - the students could access the courses from their countries, i.e. it insures virtual mobility without additional financing
  - the content is easily changeable and upgradeable what is mandatory for the fast developing sector of microelectronics
Sustainability

- New National and Regional Knowledge Alliances created – memoranda of understanding for future collaboration within mClouds and knowledge sharing Business-Academia;

- More than 50 European enterprises involved and another 15 universities

- New countries joined the Microelectronics Knowledge Alliance: Portugal, Czech Republic, Slovakia, Poland and Serbia
What next?

European University MECA

This action ....... will support the creation of alliances, ideally composed of 5 to 8 partners, by either setting-up new cooperation partnerships or enhance existing ones, through a step by step approach. They will have the possibility to associate academic and non-academic partners from the world of work and to grow at a later stage.

Budget EUR 5 000 000 for 3 years

Deadline 28th February 2019