MŰEGYETEM 1782

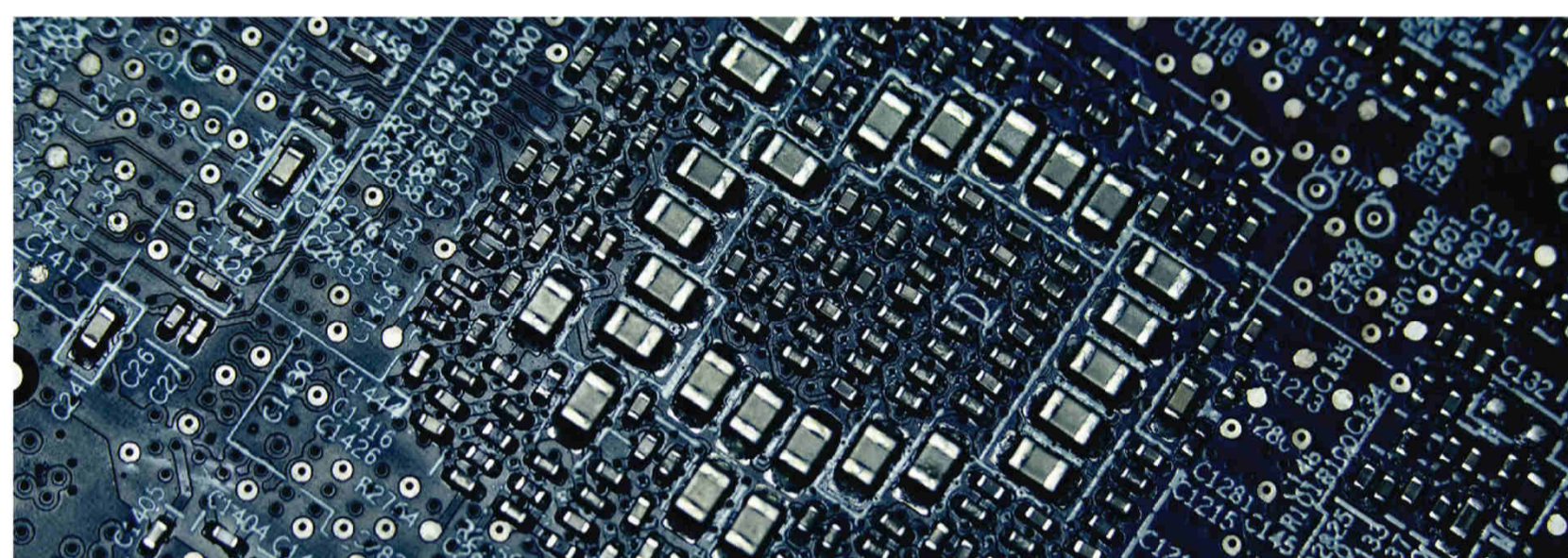Zsolt Illyefalvi-Vitez, Oliver Krammer and Slavka Tzanova

ISSE

MICROELECTRONICS CLOUD ALLIANCE (MECA) – PRESENTATION OF A NEW ERASMUS+ PROJECT

ACTIVITIES
AND TARGET GROUPS

Project management (TUS)
Needs analysis (INSA)
mClouds system (POLITO & eWorks)
Job-specific training modules (AMG)
Evaluation, pilot test (UNED & OUN)
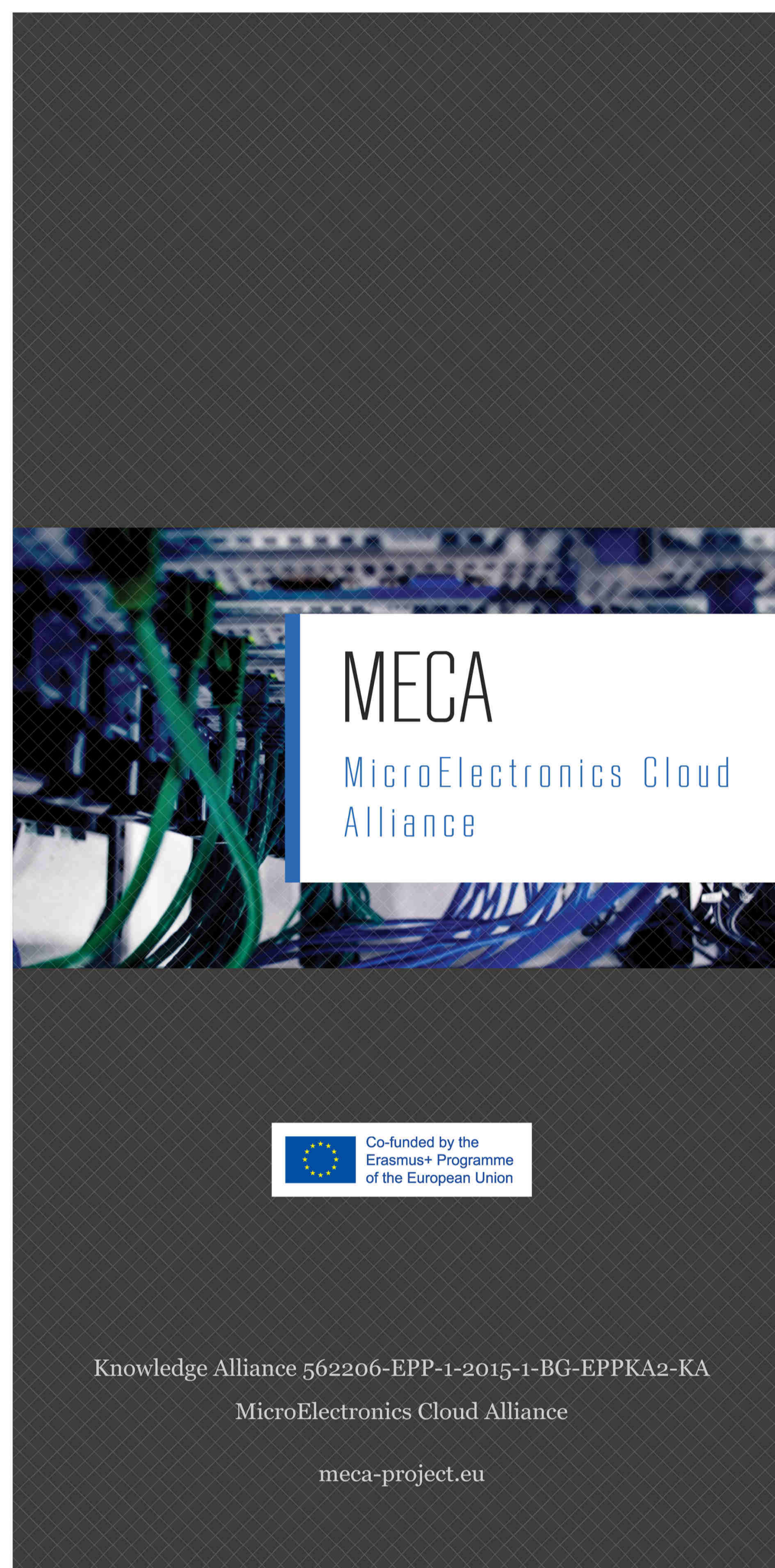*Dissemination + exploitation (BME & TUB)*

Students in microelectronics. For high-quality educational materials and up-to-date courses, due to the ever progressing essence of Science.

Lecturers. For infrastructure and techniques aiming modern course delivery - allowing easy changes and upgrades in the teaching materials.

University management, and their persuasion for the necessity of European dimensions in higher education.

Future employers of the students who need young specialists empowered with the new skills necessary for the new jobs in microelectronics sector.

Practitioners from SMEs in the sector.

MECA
MicroElectronics Cloud Alliance

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

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MicroElectronics Cloud Alliance

meca-project.eu

MATERIALS
eLEARNING COURSES

- *Assembling and Inspection Technologies (BME)*
- *Microelectronics literacy and technologies & Integrated circuits and design (UNED)*
- *Design and realisation of Micro-NanoBioSensors (POLITO)*
- *Design for Manufacturing of Microsystems, Electronic Packaging and Assembling Technologies of Microsystems (UPB-CETTI)*
- *eLearning Courses CAD in Microelectronics and in Nanomaterials Using CADENCE (TUS)*
- *Electromagnetic Compatibility of Integrated Circuits (INSA)*
- *Electronic Maintenance in Renewable Energies (INOMA Renovables)*
- *Fabrication & Application of Solar Cells (INES)*
- *Job-Oriented Courses (GEI, UPB-CETTI)*
- *Micro- and Nano Sensors and Actuators (UKIM)*
- *Microsystems Design and Fabrication (AMG)*
- *Modelling and Design of ULSI circuits and systems (POLITO)*
- *Multi-Media Enhancement of Teaching Sensors and MEMS (BME)*
- *Semiconductor Device Modelling (UKIM)*
- *Superconductive materials (TUB)*
- *Technology of Electronics Products (BME)*
- *Virtual Laboratory Support for Microelectronics Packaging Education (BME)*

ABOUTMECA
MicroElectronics Cloud Alliance...

... brings together 18 partners including Higher Education Institutions (HEI), and Small and Medium Enterprises (SME) from nine European countries to develop a Cloud-based European infrastructure for education in microelectronics providing a range of Open Educational Resources (OER), remote access to educational, professional software tools and practice-based learning facilities.
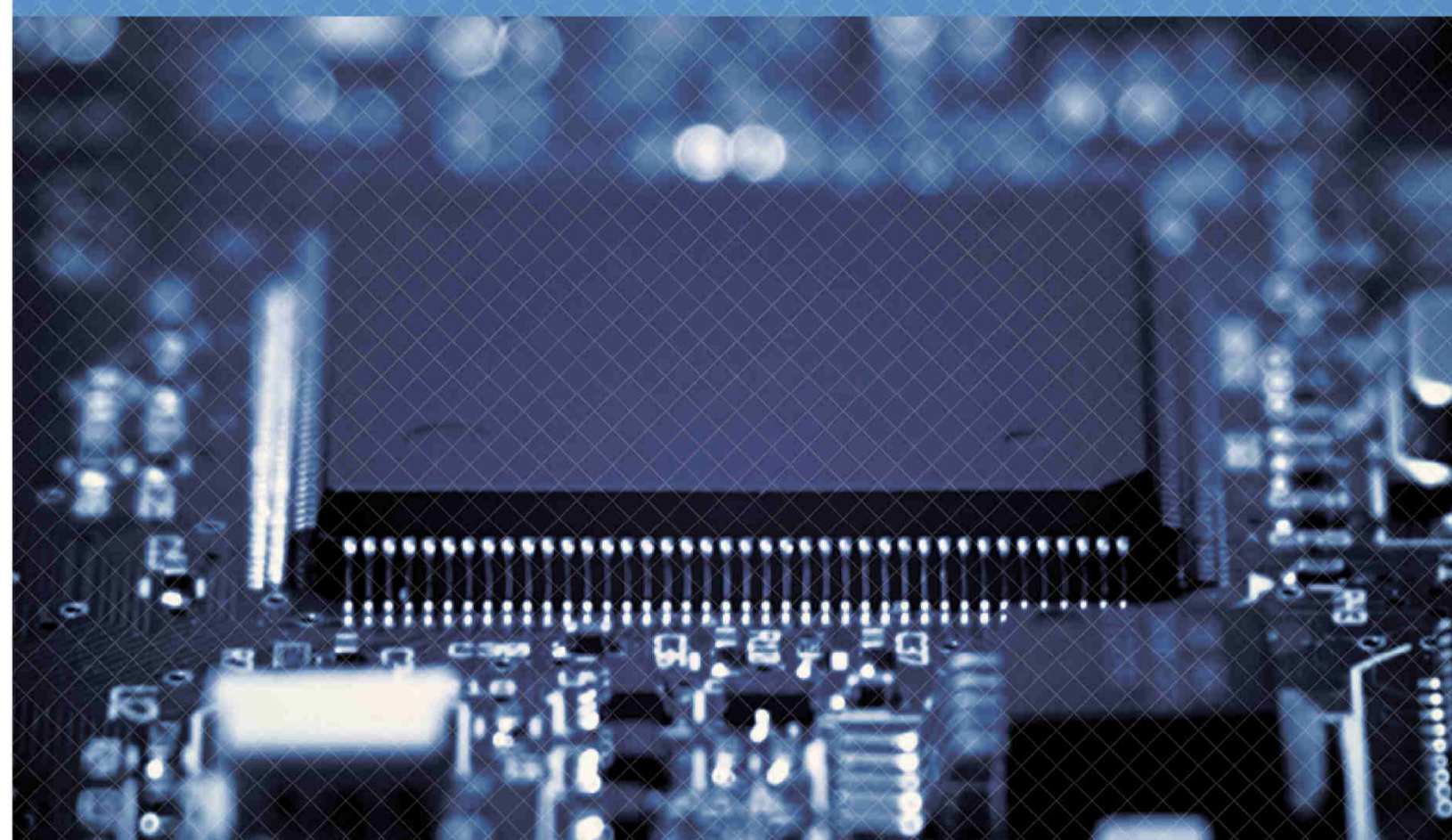
OBJECTIVES

Analysing the needs of institutional teachers and students in shared IT infrastructure for teaching materials and learning resources.

Networking of project partners to share ideas, methodologies and experiences to improve HE programmes and to develop job-specific training modules.

Development of mClouds system and realization of a shared server infrastructure, shared e-learning resources and the remote access to the CAD tools.

Implementation of jointly developed cloud-based OERs in microelectronics in the partners' educational contexts.

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MECA
MicroElectronics Cloud Alliance

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Micro Electronics Cloud Alliance

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WE CONNECT CHIPS AND SYSTEMS

BMEETT

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