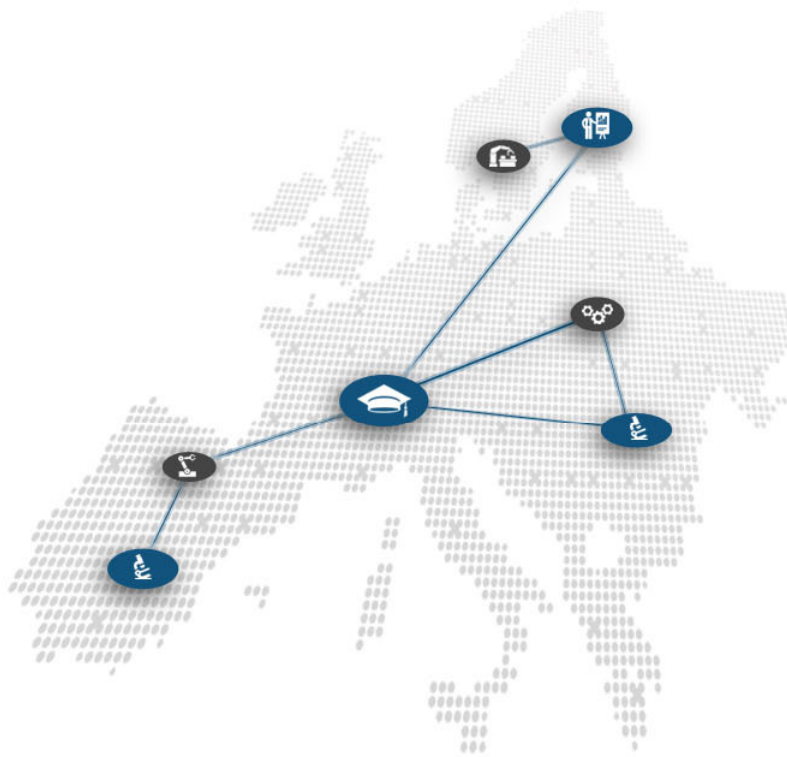




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# Smart HEI-Business Collaboration for Skills and Competitiveness



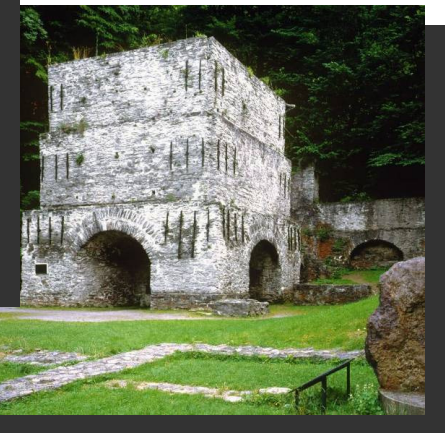
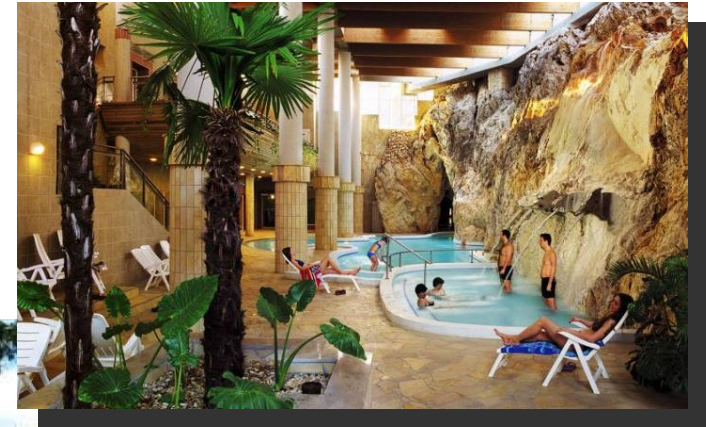
Gabriella VADÁSZ BOGNÁR  
professor  
University of Miskolc

# Miskolc

- Centre of the North-Hungarian Region
  - over 160.000 inhabitants, 237 km<sup>2</sup>
  - Centre of engineering / industry, services, communication, banking and sciences



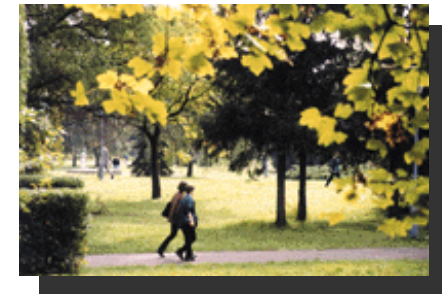
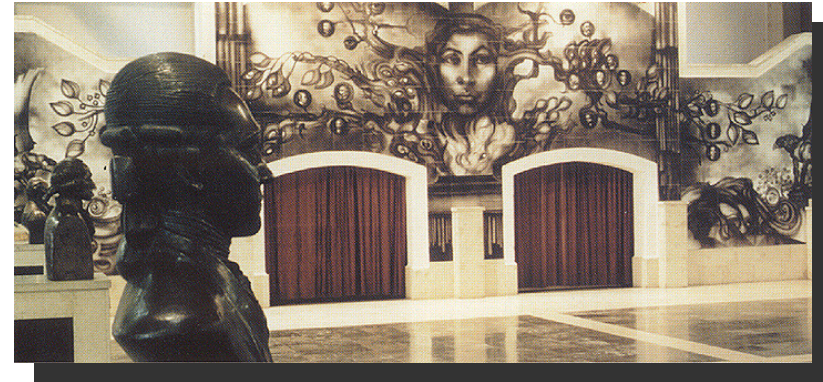
- Historic Downtown
  - National Theatre of Miskolc, Wooden Church, Avas Hill with wine cellars, etc.
- Beautiful surrounding
  - Cave Bath & Spa of Miskolc-Tapolca, Diósgyőr Castle, Lillafüred, Old Smelter of Ómassa, etc.





# The University of Miskolc

- Established in 1735
  - by the Viennese Court Chamber as a **School of Mining and Metallurgy** (Bergschule) in the town of Selmecebánya
    - *“The Schemnitz Mining Academy (in Hungary) is the first technical college in the world”* – quote from The Timetables of Technology (B. Bunch and A Hellemans)



# Student traditions of Selmeç



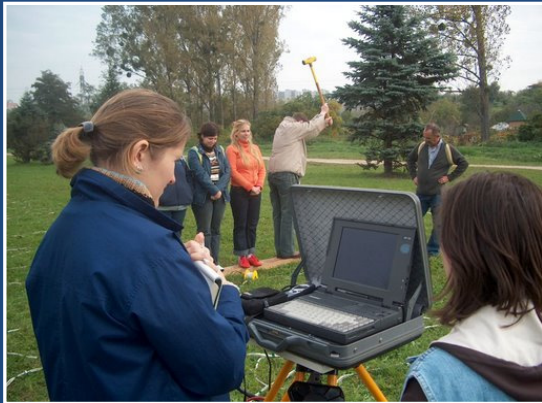


# The university

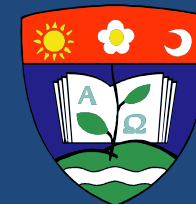


- Universitas
- 7 faculties and 1 institute
- bridge between teaching and practice
- research university

# Faculties



- Faculty of Earth Science and Engineering
- Faculty of Materials Science Engineering
- Faculty of Mechanical Engineering and Informatics
- Faculty of Law
- Faculty of Economics
- Faculty of Arts
- Faculty of Health Care
- Bartók Béla Institute of Music



# ERASMUS+ Knowledge Alliances 2 project

***Duration:*** 36 months (1 January 2017 – 31 December 2019)

***Aim:*** to develop smart and innovative new methods for Higher Education Institution (HEI)-company cooperation

***Budget:*** 989 k€ for 3 years

***The consortium*** with 12 partners from five different EU member countries



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# Participants

Project coordinator: JAMK University of Applied Sciences (Jyväskylä, Finland)

The other *university partners*:

Technical University of Cluj-Napoca (Romania),  
University of Miskolc (Hungary),  
Esslingen University of Applied Sciences (Germany)  
University of Jaén (Spain)

The *company partners*:

ITAB Pikval Oy (Finland)  
S.C. PRO-TEHNIC S.R.L. (Romania)  
SC AUTOMATES ACM S.R.L. (Romania),  
Electrolux Lehel Ltd. (Hungary)  
Robert Bosch Power Tool (Hungary)  
Stöbich Brandschutz GmbH (Germany)  
Valeo Iluminación España S.A.U (Spain)



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# INVOLVMENT IN PREVIOUS RELEVANT PROJECT

**Reference number** 540425-LLP-1-2013-1-FI-ERASMUS-EKA

**Project** : 2013-2015

**Programme:** Life Long Learning Programme: Erasmus Multilateral Projects

**Title of the project:** Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering

**Coordinating organisation:** JAMK University of Applied Sciences

**Website:** <http://www.repci.eu>



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# Workpackages

## WP1 (JAMK-FI)

### Management

**Description:** The aim of WP1 is to take care of the project management to ensure that the project is implemented as planned and the results are achieved in time, budget and good quality.

- The consortium agreement
- Overall management
- Project meetings
- Activity reports
- Financial reports
- The project steering group
- Project advisory board
- Conflict management
- Communication management
- Communication with EACEA



# Workpackages

## WP2 (UJA-ES)

### Best practices of HEI-company cooperation

**Description:** The objectives are:

- to analyse the state-of-the-art HEI student-company cooperation models
- to analyse the state-of-the-art HEI expert-company cooperation models
- to analyse different platforms and forums used in HEI-company communication
- to analyse the best practices on company involvement in university/HEI education





# Workpackages

## WP3 (HE-DE)

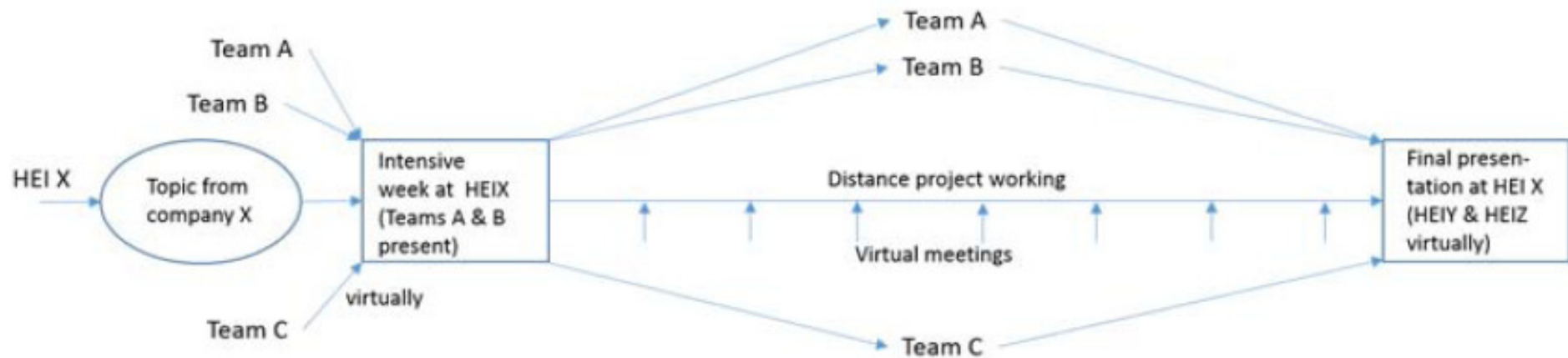
### Multidisciplinary Real Life Problem solving (RLPS)

**Description:** The RLPS cooperation model focuses on bringing students, HEI staff and companies to work together. The idea is that students from different study programs and nationalities form mixed groups in order to solve a real-life problem given by a company. The groups of students compete in solving the proposed topic over one academic semester. At the end of semester the company selects a winning solution and supervisors give grades.

- During the HEIBus project, the RLPS method is taken into a new, **multidisciplinary** cooperation level by widening it from Mechanical Engineering to other study areas, e.g. Logistics, Technical Management, Industrial Business and Business.
- WP3 also develops a **virtual implementations** (an intensive week replaced by a virtual intensive week) for the RLPS to make the method **independent** from place and more accessible for example to students unable to travel.
- ~~WP3 includes~~ **implementations of 6 RLPS processes.**



# WP3



Team A: 2 students from HEIX + 2 from HEIY and 2 from HEIZ

Team B: 2 students from HEIX + 2 from HEIY and 2 from HEIZ

Team C: 2 students from HEIX + 2 from HEIY and 2 from HEIZ



# Workpackages

## WP4 (JAMK-FI)

### Expert Level Real Life Problem Solving (EXPERT)

**Description:** The EXPERT cooperation model aims to develop a well-defined framework that allows companies to access high level expertise that partners from European universities and companies have.

In EXPERT projects, companies introduce a real life problem to be solved by a team of experts from HEIs (researchers, teachers) and companies.

During HEIBus implementation 6 EXPERT pilot projects are developed. Based on the experience in the pilot projects a plan for widening the international expert cooperation model is made.





# Workpackages

## WP5 (ME-HU)

### Flexible Student Mentoring by Companies (Flex Mentoring)

**Description:** The Flex Mentoring cooperation model aims to find and test flexible ways to involve companies in the education process of students. During implementation one or more companies walk hand-in-hand with one study group from the beginning till the end of the studies. The involvement level and best suited methods are chosen, in a flexible way, by each HEI and company.

- HEIs and companies select together **different levels of company involvement activities**
- to find the **best and most suitable practices** to be tested
- a comparative study between student groups who are involved in Flex Mentoring program and student groups in regular study program
- to offer solutions on **helping students who are lacking behind or are at risk of dropping out of their studies.**



# Workpackages

## WP6 (TUCLUJ-RO)

### Quality Assurance

**Description:** The aim is to ensure the overall good **quality of the implementations** of HEIBus project.

- Quality assurance activities and requirements of the project are documented in a **quality plan**.
- Covers all project aspects: management activities, document management and control, quality of reports and deliverables, success of dissemination activities, risk analysis of implementation of different project activities and quality of implemented project activities.
- **Quality assurance provides information for WP7 internal and external evaluation.**



# Workpackages

## WP7 (JAMK-FI)

### Evaluation

**Description:** The aim of this WP is

- to conduct **internal and external evaluation** of the project
- to provide **support for project implementation** and **ensure the effectiveness of the project** and its results



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# Workpackages

## WP8 (TUCLUJ-RO)

### Dissemination and exploitation of results

**Description:** It focuses on dissemination, sustainability and exploitation of the results of HEIBus project.

**Dissemination activities** include articles in professional and other magazines, newsletters to target groups, press releases, project website, utilising social media (Facebook, LinkedIn, Twitter), seminars, workshops, info sessions and face to face meetings.

**Exploitation activities** include info sessions, seminars, workshops and face to face meetings. The **target groups** for exploitation activities are HEI staff and company staff outside the project consortium and decision makers at **local, regional and EU level**. The main **exploitation topics** are the success and implementation of the projects (from WP3, WP4 and WP5) and recommendations from WP5 Flexible Student Mentoring by Companies.





# Thank you!

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University of Miskolc

[www.heibus.eu](http://www.heibus.eu)

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