

## RePCI-PROJECT

### **WORK PACKAGE 4: Resource alliance**

# **Deliverable D4.5 Planning and monitoring the executing of pilot services**

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## 1. THE AIM OF THE WP 4

The general objectives of and their indicators in the RePCI project have been presented as follows:

1. **Business line driven and strategy based cooperation management.** Indicators:
  - (1a) number of strategic partnership agreements
  - (1b) feedback from companies and HEIs
2. **Development of staff of companies is continuous and based on the strategic choices relative to the competitiveness.** Indicators:
  - (2a) number of trained Coaches and other company staff
  - (2b) feedback from stakeholders of the Competency Coaching –training and
3. **Easily accessible international resource pool to improve the competitiveness of companies.** Indicators:
  - (3a) number of services in the supply of the resource pool
  - (3b) feedback from companies and HEIs
4. **Real life problem solving in company-student-staff of HEI triangle.** Indicators:
  - (4a) number of staff of companies and HEIs and students participating in processes
  - (4b) feedback from staff of companies and HEIs and students.

**The aim of the WP 4** is to form an **international resource pool** with the participation of enterprises and HEIs, which is easily available and it helps to improve the competitiveness of companies.

**WP 4 includes following Tasks:**

- Task 4.1 Report on the identified needs of companies for cooperation
- Task 4.2 Report on the identified fields of expertise in HEIs
- Task 4.3 Report on the identified entities on the selected fields of expertise
- Task 4.4 Report of taxonomy of enterprise-university cooperation
- **Task 4.5 Supply of resource alliance - pilots**
- Task 4.6 Resource map of resource alliance
- Task 4.7 Report on the evaluation of service implementation

This is a report on the services completed in the framework of Task 4.5 Supply of resource alliance - pilots

## **2. TASK 4.5. Planning and monitoring the executing of pilot services**

### *Description of Task 4.5:*

Each university discusses with the enterprises and selects some activities to implement as pilot cases. It is crucial that each university has more than one type of activities because it is necessary to get out of the comfortable zone of existing situation and gather experience. All the universities control that there will be all the types of cooperation in use. The costs for pilot implementations of services are not included in the budget of this project.

\* Remark: The deliverable to Task of 4.5 has been interchanged with the deliverable to Task 4.6 as of the original one doesn't match to Task 4.5.

### **3. Deliverable 4.5. Services**

As an outcome of productizing process there are services provided by all the partner universities and also the enterprises if they see it feasible. Services will be implemented as pilots (funded by external sources) in each partner country among the cooperation plan with the enterprises. Services are recorded and feedback is collected from each service implementation. Service providers keep record of their experiences based on the process and content of each service. Services form the supply of the knowledge alliance and are listed in a form agreed in the project.

PILOT projects completed during RePCI project period are exhibited in Section 3 for all universities involved in RePCI project.

### 3.1. Hochschule Esslingen (Germany)

**Partners:** Hochschule Esslingen – Mann+Hummel GmbH, Ludwigsburg

**Activities:** Transfer project

**Period:** 01.03.15 – 30.06.2015

**Description:** Mann+Hummel has ordered a project to develop a system of measurement to check non-rigid components. It is not possible to check flexible components, e.g. air filters, like rigid components. But for reliable quality assurance an unambiguous measuring of flexible parts is very important.

Content of this project:

- Analysis of existing drawings
- Analysis of current production process
- Research on possible measurement systems
- Describe a suitable measurement and checking system

**Financing:** Because students were involved in this project personnel costs were not invoiced. Other costs were paid by company. The amount is confidential.

**Notes:** This project was a result of tolerance trainings at Mann+Hummel, carried out by an expert of Hochschule Esslingen.

## 3.2. JAMK University Jyvaskyla (Finland)

**Partners:** JAMK University of Applied Sciences – Oy SKF Ab, Muurame

**Activity:** Education and testing of devices

**Period:** March – April 2015

**Description:** Oy SKF Ab has ordered education and testing services from the Department of Industrial Engineering, JAMK.

Purpose was to provide education and testing of measuring devices as follows:

- Measuring education
  - Measuring and quality
  - Quality systems
  - Quality control of measuring
  - Measuring process
  - Measuring errors
  - Handling and service of measuring devices
  - Measuring and inspection instructions
  - Calibration system
  - Defining the uncertainty of measurements
  
- Calibration of
  - Setting rings
  - Gauge block

**Financing:** The contractual amount has been paid by bank transfer, by the Oy SKF Ab, the amount is confidential

**Notes:** Due to the Information Security Agreement with the Oy SKF Ab and the “Products” can not be named above.



### 3.3. TUCLUJ (Romania)

#### I. Pilot 1

**Partners:** TUCLUJ – SC ProTehnic

**Activity:** Research

**Period:** November 2014 – June 2016

**Description:** SC ProTehnic and TUCLUJ/Faculty of Mechanics representatives organized a series of working meetings in the autumn of 2014 for developing of a new collaboration agreement on a series of common research interests. In November 2014 the partners agreed to initiate a research project with the topic design of modules for microfactory systems. As part of the collaboration, the company also supported the acquisition of new hardware and software equipment for the research laboratory from TUCLUJ that is used for implementing the proposed project. The objectives of the research are:

- Structural synthesis of microfactory systems
- Design, development and experimental testing of micromanipulators
- Actuation systems for microfactory modules

For implementing the research activities, both company and university researchers are involved.

**Financing:** Mix of private & public funding

**II. Pilot 2**

**Partners:** TUCLUJ – CSI Romania

**Activity:** Research/Education

**Period:** October 2014 – September 2016

**Description:** SC CSI Romania initiated a new collaboration with TUCLUJ/Faculty of Mechanics that focus on increasing the personal qualification and develop new technologies in the field of logistics. In this context one company employee started in October 2014 his PhD thesis that focus on the research themes proposed by the company. The main objective of the research is the design of new systems for smart palletizing and material handling.

**Financing:** Education -Public funding

### 3.4. Miskolci Egyetem (Hungary)

**Partners:** University of Miskolc – “Company”

**Activity:** research and development of a “product” currently marketed

**Period:** 15<sup>th</sup> March – 15<sup>th</sup> April, 2015

**Description:** The “Company” has ordered from the Institute of Machine and Product Design, Faculty of Mechanical Engineering and Informatics, University of Miskolc, the research and development work to examine a commercial “product” from noise aspects and to give possible solutions, construction changes to reduce the noise pollution of the “product”.

- The task is to measure noise of existing control equipment, to determine of sound power levels superficial wrapping process (making measurement report) with
  - Cutting edge;
  - Without cutting.
    - Design elements for drive testing
    - Production of principal clamping device.
    - Performance of acoustic analysis for the existing drive mechanism of the clamping device.
    - Modification of certain elements causing subsequent acoustic noise and repeating tests.
    - Determination of transmission motion conditions, and characteristic frequencies.
    - Recommendations for principles changes and for design based on the measured results.

**Financing:** the contractual amount has been paid by bank transfer, by the “Company”, the amount is confidential

**Notes:** Due to the Information Security Agreement the “Company” name and the “product” can not be named above

**Attachment:** Copy of Certificate of completion

## Annexes

1. Miskolci Egyetem (University of Miskolc) – copy of certificate of completion
2. Technical University Cluj Napoca – PhD defence
3. Cooperation agreement TUCLUJ- Pro Technic



## TELJESÍTÉSIGAZOLÁS

**Felvéve:** 2015. április 7. Miskolc

**Megbízó:** [REDACTED]

**Megbízott:** Miskolci Egyetem Gép- és Terméktervezési Intézet

**Tárgy:**

[REDACTED] zaj alapú elemzése c. k+f szerződésben vállalt [REDACTED]

[REDACTED] berendezést kontroll zajmérését elvégezte, a hangteljesítményszintet meghatározta burkolófelületes eljárással, amelyről mérési jegyzőkönyvet készített.

Zárójelentésben rögzítette a mérési eredményeket, megoldás alternatívákat.

A vállalási összeg kiszámlázásra kerülhet.

Szolgáltatás nettó összege: [REDACTED] Ft

Áfa 27%: [REDACTED] Ft

Összesen: [REDACTED] Ft

Azaz: [REDACTED] forint

[REDACTED]  
2015. ÁPR. 15

[REDACTED]  
Mégbízó  
cégszerű aláírása, bélyegzője



[REDACTED]  
Mégbízott (Megbízott)  
cégszerű aláírása, bélyegzője

UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA  
ȘCOALA DE INGINERII

### PROCES VERBAL

Încheiat azi 30.03.2014, cu ocazia prezentării proiectului de cercetare științifică al studentului-doctorand TRIFU IONUȚ VASILE conducător științific Prof.dr.ing. Dana MĂRȘINU.

Comisia de examinare are următoarea componență:

Cond.de doctorat: Prof.dr.ing. Dana Mărșinu

- Membru- 1) Prof.dr.ing. Ileana Anđoleasa  
2) Prof.dr.ing. Olimpia Tătar  
3) Prof.dr.ing. Steliana Năvescu  
4) Prof.dr.ing. \_\_\_\_\_

Tema proiectului de cercetare științifică (tema tezei de doctorat):

CERCETARI PRIVIND ÎMBUNĂTĂȚIREA ECHIPAMENTELOR  
AUTOMATE DE TRANȘERET ȘI ÎNDOBITALE

înțelegeri, obiecțiuni privind discuțiile pe marginea temei: Dr. Dana Mărșinu apreciază conținutul tezei și recomandă admiterea tezei în vederea susținerii ei la examenul de doctorat. Dr. Anđoleasa recomandă admiterea tezei în vederea susținerii ei la examenul de doctorat. Dr. Tătar recomandă admiterea tezei în vederea susținerii ei la examenul de doctorat. Dr. Năvescu recomandă admiterea tezei în vederea susținerii ei la examenul de doctorat.

Ca urmare a evaluării proiectului de cercetare științifică, comisia de examinare, acordă calificativul:

Conducător

de doctorat: (admis/respins)

membru: 1) (admis/respins)

2) (admis/respins)

3) (admis/respins)

4) (admis/respins)

(semnătura)

Proiectului de cercetare științifică este ADMIS/RESPINS, calificativ care permite(nu permite) promovarea studentului-doctorand în programul de cercetare științifică.

Conducător de doctorat

Prof.dr.ing. Dana Mărșinu

(semnătura)