OUTPUT FACT SHEET

Pilot actions (including investment, if applicable) Version 2

Project index number and acronym	CE1171 SYNERGY
Lead partner	Wrocław University of Science and Technology
Output number and title	O.T1.2 International projects analysis and matchmaking pilot action
Investment number and title (if applicable)	
Responsible partner (PP name and number)	PROFACTOR GmbH, PP 2
Project website	http://www.interreg-central.eu/SYNERGY
Delivery date	04.2018

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character

One of the key challenges today is matchmaking, i.e. finding appropriate partners for cooperation. The process of globalization enabled entities with new possibilities, smartphones and Internet allow fast and reliable contacting, yet, the open question is with whom shall we establish new links that lead to cooperation that will be long-term and trusted by all participating parties leading to the synergy effect. The goal of the proposed method for matchmaking that has been implemented is to build clusters of organizations using an approach based on network science. Compared to the relational approach often used in databases, here instead of querying tables for specific fields, a network of partners is being build. Then, on top of this network, a clustering algorithm (based on graph theory) is applied that has to find the nodes that belong to the same cluster based on the closeness of areas they are involved in. Visualization layer allows to present these clusters in a visual form that is easier to understand and interpret.

As a result, it is believed that this form of matchmaking will lead to new partnerships within the stakeholders described in the database along with other SYNERGY tasks. International analysis of 253 research, industrial and regional development projects was executed in order to gather and group regional innovation actors of common areas of expertise and interests to identify potential participants of cooperation development.

The novel approach relays on assessment of real organization achievements within innovative project realization in contrary to the non-binding declaration contained in the profile descriptions of these organizations. The source of knowledge about the actual competences and achievements of individual organizations is the database of projects in which the organization participated.

For matchmaking the developed IT-Tool (O.T1.1) has been used.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

Regions where the pilot action have been developed and implemented:

- ✓ Dolnośląskie (PL51)
- ✓ Oberösterreich (AT31)
- ✓ Chemnitz (DED4)
- ✓ Zahodna Slovenija (SI02)
- ✓ Karlsruhe (DE12)
- ✓ Jadranska Hrvatska (HR03)
- ✓ Emilia-Romagna (ITH5)

The pilot action was done by all partners.

Investment costs (EUR), if applicable

N/a

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

In reference to Deliverable D.T2.1.2 and research performed under development of this document CE special projects key factors were broken down to an analysis of: Key Projects Areas, TRL-Level, Lead Partners (including type of organization, competences and infrastructure) and type of projects outputs. These key factors were grouped and interpreted to show the level of innovativeness, transfer of technology and commercial potential and thematic concentration in Central Europe.
The main benefits are:

- Collecting information on 253 projects in one, friendly-accessible database
- Connecting organizations dealing with similar research areas in different regions and countries
- To ensure complementarity of research and services

Sustainability of the pilot action results and transferability to other territories and stakeholders.

The clustering algorithm is a part of living IT-Tool. Sustainability of the IT-Tool (described in O.T1.1 Output Factsheet) will assure the sustainability of the pilot action.
The algorithm can be run automatically or on demand to assure up-to-day analysis and matchmaking results.

Transferability of the pilot action to other territories and stakeholders would be possible according to the universal algorithm that has been used to pilot action. Implementing data regarding other territories and stakeholders will allow to run pilot action and get results of clustering of different organizations.

Lessons learned and added value of transnational cooperation of the pilot action implementation (including investment, if applicable)

It was found that Technology Readiness Levels (TRL), a type of measurement system used to assess the maturity level of a particular technology, became the most relevant to assess the projects. Identified projects outputs were clustered within the TRL-Levels, using the European definition and a simplified definition.
It is advised to put attention if TRL is relevant - assessed and defined correctly.

Contribution to/ compliance with:

- **relevant regulatory requirements**
- **sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced**
- **horizontal principles such as equal opportunities and non-descrimination**

Consequences for regulatory requirements, environmental effects or horizontal principles haven't been identified.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links
If applicable, additional documentation, pictures or images to be provided as annex

References:
D.T1.2.1 Report: tailored Synergic Consortia creation & profiling IT tool with matchmaking functionality - tool
D.T1.2.2 Report on grouping of CE special project key factors
D.T1.3.2 Analyses of gathered projects - report

Web-link:
https://synpro.e-science.pl

Annex:
Results of grouping projects - screenshots [SYNERGY O.T1.2 Annex.zip]