Interreg
Austria-Czech Republic
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A.T1.4.3
REPORT ON MAPPING TOOLS

Report on Mapping Tools

Version 1
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NABIAM

1. Introduction

The Competence Mapping of NABIAM Project did focus on the evaluation results from the questionnaire-survey as well es the Mapping and Tagging of Technology Offers & demanded Technologies.

In Nabiam project therefore en established open source tool as Google Maps was used to analyse the current activities of the companies in three defined area such as: Additive manufacturing (AM), Bio sensors (Biosen) and Nanotechnology (Nanotech) and to create an overview of the involved value chains in universities, technology institutes and industry companies.

2. Output description

Data analysis

After defining the main axis of the competence mapping with Profactor and University of South Bohemai as the RTO Experts the survey results were transfered in the mapping tool:

Nanotechnology Overviews

Nanotechnology	R&D	material provider	process provider	manufacturer semi finished	processor	service provider	integrator OEM	certification registration	market
nanomaterial development							x		
nano biotechnology									
process engineering	x								x
nanocoating		x							
Nanoparticle synthesis									
nanostructure design (artificial/biomimetic)									
surface nanopatterning / nanostructure replication	x						x		
Bioactive nanosurfaces									
Nanostructure simulation & characterization									
supply chain management		x		x	x				
									x
nanomaterial/nanostructure simulation (mechanical properties)			x						
nanomaterial/nanostructure simulation (optical properties)	x								
nanomaterial/nanostructure simulation (wetting properties)				x					
nanomaterial/nanostructure simulation (other properties)									
surface nanopatterning / nanostructure replication									
nanocoating fabrication (wet)	x								
nanocosting fabrication (gas-phase)									
nanocoating fabrication (in vaccuum)									
nanoparticle synthesis (wet chemical)									
nanoparticle synthesis (mechanical)	x								x
nanoparticle synthesis (gas)									
nanoparticle synthesis (other)				x					
nanostructure characterization									
nanocoating characterization					x				
thin film characterization					x	x			
other surface characterization		x							
							x		
nanostructure design (artificial/biomimetic/)									
marketing									
other									x

Bio-Sensors Overview

Bio-Sensors	R&D	material provider	processing provider	manufacturer of semi finished goods	processor	service provider	integrator converter	certification registration	market
material development	x								
process engineering	x								
Bio coatings		x							
Bio transducers									
Lab-on-a-chip	x		x						
Microfluidics			x						
Smart biosensors				x			x		
software development (IoT? Mobile applications?)									
validation, simulation, selection									x
supply chain management	x			x					
design	x		x						
marketing							x		
mechatronic /actuating elements									
mechatronic /sensor systems					x				
electronic embedding strategy			x						

AM Overview:

Bio-Sensors	R&D	material provider	processing provider	manufacturer of semi finished goods	processor	service provider	integrator converter	certification registration	market
material development	x								
process engineering	x								
Bio coatings		x							
Bio transducers									
Lab-on-a-chip	x		x						
Microfluidics			x						
Smart biosensors				x			x		
software development (IoT? Mobile applications?)									
validation, simulation, selection									x
supply chain management	x			x					
design	x		x						
marketing							x		
mechatronic /actuating elements									
mechatronic /sensor systems					x				
electronic embedding strategy			x						

Based on the survey and ist 6 questions for each of the main topics and the results were categorized on technology offers and for the mapping on Technology Readiness and part of a potential value chain. The statistical output displays the percentage of KMU and RTO that are currently active/inactive in the respected area.

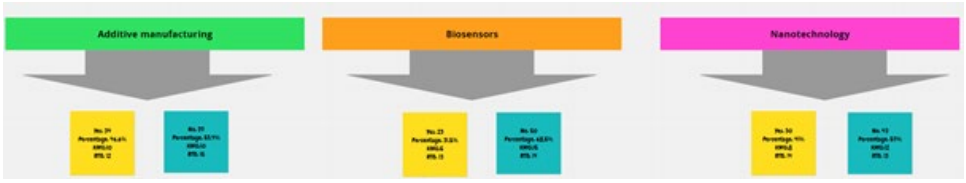


Fig 1: Overview on NA-BI-AM mapping and involved entitites

Competence Mapping

After defining the main axis of the competence mapping with PRO and USB the survey results were transferred in the mapping tool:

The Google Maps Tool allows a full data integration of the mapping.

By having the separation filter in connection with the internal competence mapping a matchmaking on technology requests can be offered by the NABIAM Expert teams in each region.

The mapping is open source and can be adopted by all members when finding a new company, rto or other service providers to grow the mapping and quality continuously.

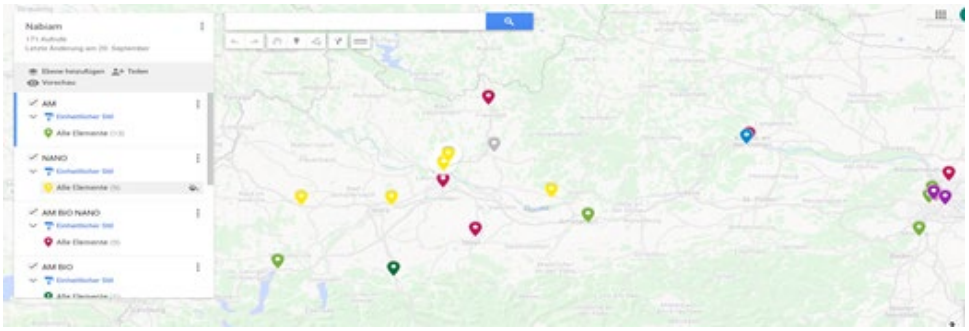
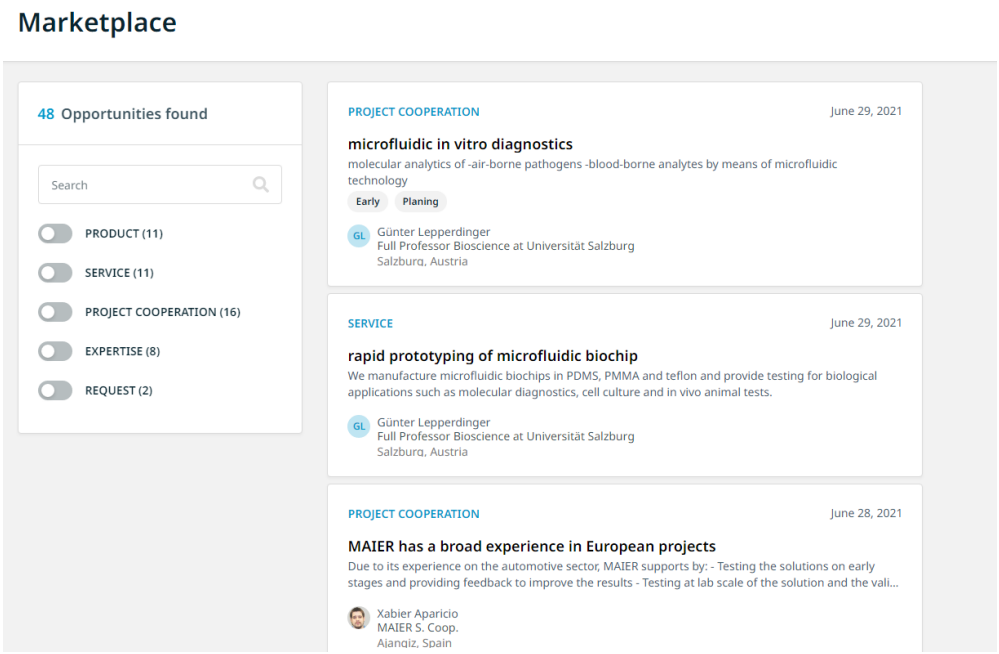


Fig. 2: Competence Mapping Tool for Prequalification of Partners

The NABIAM Service Approach:

To ensure a matchmaking with high impact the NABIAM Consortia offers a direct service to the topics of Nanotechnologies, Biosensing and Additive Manufactruing and in deep based on the competence matrix with more than 70 technology offers to find the rigth partner fro a demanded technology or innovation project.

Beside this the involved Cluster Networks can assist on finding possible R&D funding as well as to define a roadmap for a medical application approval for a product and to find partners or service providers.



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