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LASER-GO

Creating and Developing the Strategic Cluster Partnership in Photonics for Health

COS-CLUSTER-2014-3-03 – Cluster Go International

COSME

D4.1: Partner Screening and Evaluation Guide

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Introduction

This document is the deliverable D4.1 of the project LASER-GO: Partner Screening and Evaluation Guide

The project aims to increase Europe's innovation potential and the export-driven growth by leveraging the competitive strengths of three clusters active in two areas of smart specialization: photonics and health. Initially three clusters proposed to create and develop a Strategic Cluster Partnership of Photonics for Health. The planned partnership aims to create linkages between cluster companies that could facilitate the business opportunities aimed at the growing sector of health tech with the key enabling technologies that clusters, including optics, photonics and laser technologies.

This document has been prepared on the basis of the completed Tasks 4.1. „Partner Screening" and Task 4.2. "Partner Evaluation". The overall objective of both tasks was to conduct a thorough search for strategic partners that could help to promote internationalization of the partnership and better reach out to the targeted markets in the subsequent phase of the development of the partnership.

The task 4.1 was used to identify the potential new partners for the existing consortium. The task 4.2 was used to conduct the actual evaluation: to prepare the evaluation guide, to compare the shortlisted candidates, to gather additional information and to extend an offer to the potential partners, prepare the Partnership Agreement (D4.2).

Altogether six clusters have been identified and considered: three of them were subsequently involved in the partnership at the end of the project, namely Medicen Paris Region, Biocat and Optence. The prepared Partner Evaluation Guide that helped to identify, evaluate and select the best matching clusters is included in this document and would serve as a basis for the further enlargement of the partnership during the following stage of the development of the partnership.

This document is subdivided into the following parts:

- Chapter 1 – Background
- Chapter 2 – Partner Screening
- Chapter 3 – Partner Evaluation
- Chapter 4 – Conclusions
- Annex: A list of the clusters in Europe related to the emerging industry of medical devices registered

1 Background

The identification and the subsequent selection of potential partners for cross-cluster collaboration is a complex matter due to a number of factors. The cluster organisations differ in their legal status and the type of stakeholders involved which defines the scope of the cluster activities. Each cluster organisation operates under a specific arrangement with the constituting members of their cluster (SMEs, large enterprises and RTOs) as concerning their rights and responsibilities. More so, each cluster is part of a larger regional/national innovation ecosystem that differ across countries/regions.

In order to address the complexity of the task of finding, screening, evaluating and selecting new partners the LASER-GO consortium has agreed at the start of the partnership building efforts that the further involvement of new clusters would be guided by the following principles: it was agreed that each existing partner would have to make an effort to search for and invite one additional partner, thus taking an equal share of responsibility for the constitution of the enlarged partnership, second, it was agreed that no limitations were to be placed on the country origin of a new partner and, third, that a new partner should be provide complementarity to the existing consortium in terms of the technology application fields and the strategic plans for internationalization in the specific targeted markets in North America and Southeast Asia. It was agreed that the preference would be given to the clusters which can contribute to the existing value chains covered by the constituent partnership members and those covering additional geographical areas of the EU outside the existing consortium.

The Goal Statement of the partnership provided the further requirements as concerning the type of commitment that each partner would be asked to take. The Goal Statement envisioned that the LASER-GO partnership would be:

1. Focusing on the application areas related to photonics-enabled technologies in health-related uses;
2. Establishing links with other clusters active in the areas which can increase the cross-sectorial scope of the present Partnership and open up access to new value chains: in mobility, smart cities, active and assisted living, giving preference to other COSME Go International clusters;
3. Leveraging political support in the respective regions while planning visits and activities overseas and aligning with the regional export strategies while selecting and finalizing the countries for those visits.

Further, the Goal Statement of the Partnership contained the expected roles and responsibilities for the partnership members which applied also to new partners. Each member is obliged to:

- Make an effort to obtain a co-funding for the running of the Partnership-related activities;
- Gain commitment from stakeholders and the public bodies;
- Maintain visibility of one's involvement in the Partnership;
- Open up to further collaboration in project-related activities;
- Show trust in each other by sharing information and knowledge vital to the Partnership;
- Honour the commitments and fulfilling them in a timely manner.

2 Partner Screening

Based on the above principles of the LASER-GO partnership, the presented Partner Screening and Evaluation Guide have been prepared and put in practice.

The initial partner screening was based on two initial criteria:

- A potential partner had to come from either an application field of medical devices or a technology field of photonics having at least 30 cluster members active in relation to both or either of those fields: one partner should come from the field of photonics, and two partners from the field of medical devices. These quotas were introduced in order to balance the partnership making it evenly split between three photonics and three health sector partners.
- A potential partner should be interested in exploring the third markets in North America and Southeast Asia – the main two country regions targeted by the LASER-GO partnership.

The search for partners have been conducted in three steps:

1. The potential partners from the already existing consortia which received a label of "European Strategic Cluster Partnerships – Going International" (ESCP-4i) from the European Commission, DG Growth and the Executive Agency for SMEs of the European Commission meeting the initial criteria as presented above have been identified and put on the list for partner screening.
2. The potential partners from all cluster organisations listed on the European Cluster Collaboration Platform (ECCP) meeting the initial criteria as above have been identified and included in the list for screening.
3. The potential partners from other cluster organisations, including from outside the EU, meeting the above criteria have been identified and considered.

2.1 Potential partners from ESCP-4i partnerships

ESCP-4i partnerships have been formalized following the COSME call COS-CLUSTER-2014-3-03 – Cluster Go International and their activities started as ESCP-4i labelled partnerships at the beginning of 2016. The European Commission has selected 25 "European Strategic Cluster Partnerships – Going International" as a result of this call, including the 15 co-funded projects resulting from the call "Clusters Go International" and 10 additional "voluntary" Partnerships that were on the reserve list of the call and accepted to keep working on joint cooperation agenda without EC direct co-funding.

There was only one ESCP-4i partnership directly involved in the application field of LASER-GO – the European Cluster Partnership on Personalized Healthcare (bioXclusters plus) which included four largest biomedical and health sector-related clusters, namely: Lyonbiopole healthcare cluster (Auvergne-Rhône-Alpes, Lyon), Biocat lifescience cluster (Catalonia, Barcelona), BioM biotech cluster (Bavaria, Munich), bioPmed healthcare cluster (Piemonte, Turin). All four clusters have been put on the list for partner screening (see Annex). Having analysed all four clusters Biocat was shortlisted for the further evaluation since it met two criteria: first, being part of bioXclusters it was interested in exploring the market in Canada which is on the list of the targeted countries by the LASER-GO

consortium, and, second, more than 30 members of Biocat are involved in both the health-tech and the photonics-related application markets.

2.2 Potential partners listed on ECCP platform

A further search of the partners have been conducting using the European Cluster Collaboration Platform (ECCP). This Platform is a service facility aiming to provide cluster organisations with modern tools provided by the European Union.

The platform serves as a directory of the cluster organisations which need to go through the vetting process during the registration. A wide range of Clusters in the EU are registered and associated to sectoral industries, technology fields and countries which makes this platform an indispensable online resource for the search of matching clysters. Figure 1 shows the Cluster mapping tool of the ECCP. All in all 547 Clusters were found on the platform.[1] 98 clusters are related to the emerging industry of medical devices (a full list with the details is provided in Annex) as shown in Figure 2.[2]

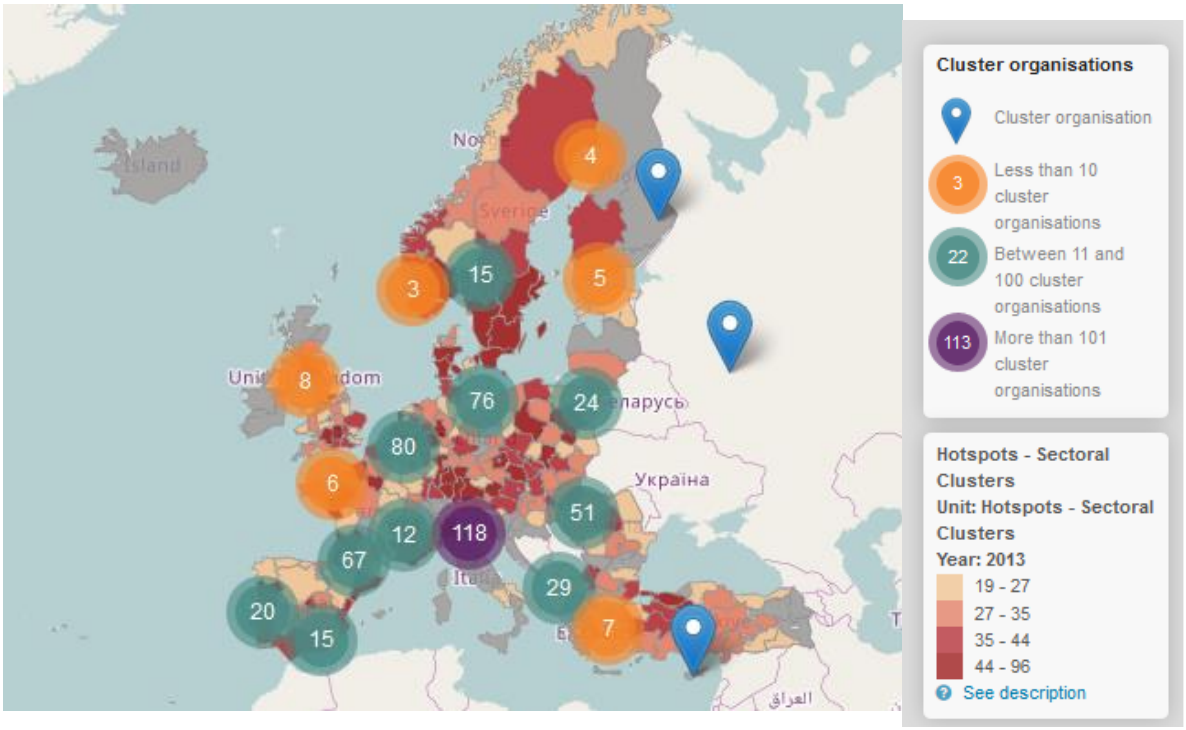

Figure 1: Number of Cluster organisations per region in Europe registered at EECP (13.04.2017)[3]

[1] https://www.clustercollaboration.eu/cluster-mapping ; 13.04.2017

[2] https://www.clustercollaboration.eu/cluster-mapping?combine=&country_code=All&region_code=All&escp_membership=All&sector_id=All&s3_priority_id=All&technology_field_id=All&emerging_industry_id=MED&field_sup_prog_eu_value=All&number_of_member=All&label=All&employee_ranges=All; 13.04.2017

[3] https://www.clustercollaboration.eu/cluster-mapping; 13.04.2017

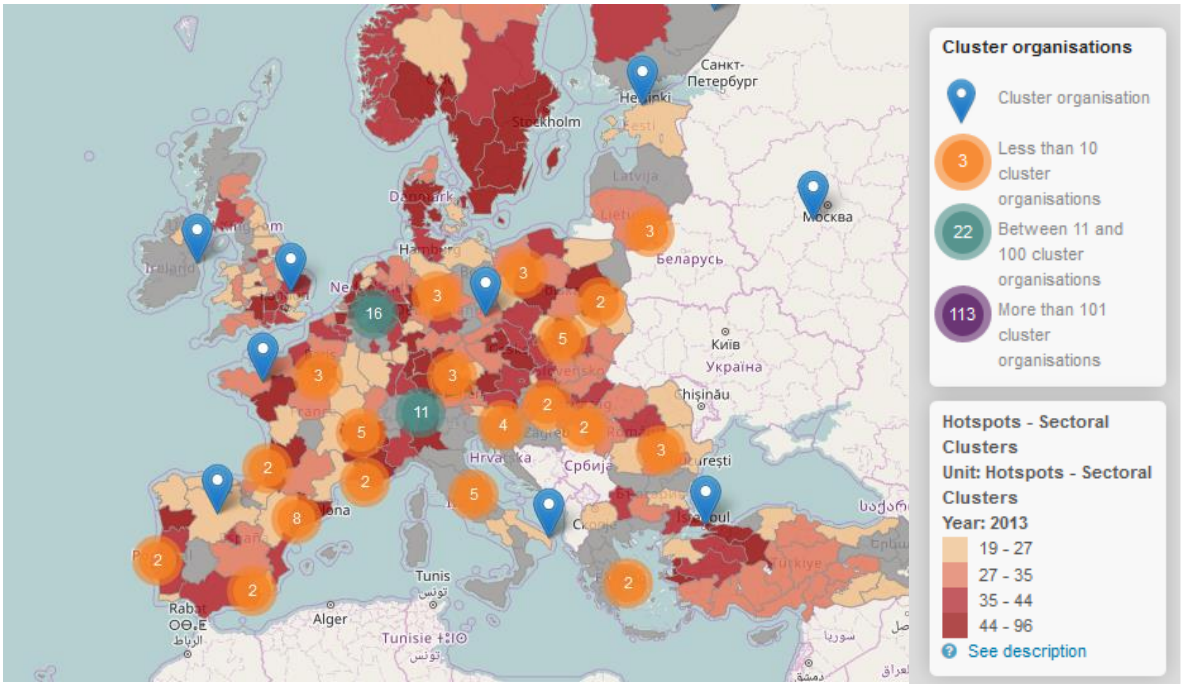

Figure 2: Number of Cluster organisations per region in Europe related to the emerging industry of medical devices registered at EECP (13.04.2017)4

For the partner evaluation three cluster organisations have been selected for the further evaluation:

- **Medicen Paris Region**, which is the competitiveness cluster of the Paris Region and one of Europe's largest cluster in Life Sciences and Healthcare. Founded in 2005, it connects together all the key stakeholders (leading research institutes, innovative SMEs, hospitals, incubators, large companies and territorial authorities) to define the best innovation policy to develop growth and employment; strengthen international competitiveness for the French health ecosystem and increase its attractiveness. Medicen has around 250 members – 200 SMEs, structured around 5 technological areas:
    - In vitro diagnostics: biomarkers, companion diagnostics, reagents, laboratory equipment
    - Diagnostic and interventional imaging systems: imaging (bio)markers, in vivo guidance, therapeutic targeting
    - Regenerative Medicine and biomaterials, including gene and cell therapies, tissue engineering

[4] https://www.clustercollaboration.eu/cluster-mapping?combine=&country_code=All&region_code=All&escp_membership=All&sector_id=All&s3_priority_id=All&technology_field_id=All&emerging_industry_id=MED&field_sup_prog_eu_value=All&number_of_member=All&label=All&employee_ranges=All; 13.04.2017

- ICT for Health ;
- Translational medicine

- **MedicalMountains**. MedicalMountains represents the interests of medical technology companies in all issues relating to technology, innovation, research and development, and support policies. This is done at regional, national and European levels. The interests of local medical device companies and research institutes are bundled and communicated on current issues such as medical devices regulation. This focus on current issues of medical technology development strengthens each individual network partner in their work. Statements and position papers that reflect the overall interests of all companies significantly outweigh individual opinions.
- **Beauty Cluster Barcelona** (BCB), a network partner of the Cosmetics Cluster International Network. The cluster formed by more than 100 companies, mostly SMEs, of the Beauty and Health sector value chain. BCB aims to create the cluster companies more competitive by creating new projects and offering value added services, through individual and collective initiatives. BCB is based on three main objectives; Innovation, Internationalization (access to new markets) and Smart networking for the Beauty and Health Industry.

All three shortlisted clusters met the initial criteria for selection: they had more than 30 SMEs involved in the health tech sector relevant to photonics and had similar interest in exploring the targeted markets either in North America or Southeast Asia, or both.

2.3 Other potential partners

A wider search for other potential partners have involved the cluster organisations which have been setup by regional or national governments to support the clusterization initiatives in the particular regions. This additional search (conducting on the basis of the existing contacts between the cluster organisations involved in the LASER-GO partnership) has yielded the following two candidates:

- **BioPro Baden Württemberg:** BIOPRO Baden-Württemberg comes under the auspices of the Baden-Württemberg government and is specifically focused on the following themes: bioeconomy, biotechnology, pharmaceutical industry and medical technology (healthcare industry). As the state-wide service agency, BIOPRO Baden-Württemberg GmbH provides targeted support to the healthcare industries (pharma, health-tech and biotech) and the development of a bioeconomy in the region. Areas of activity of health-tech companies in Baden-Württemberg include:
    - Surgical instruments
    - Articles of daily use
    - Endoscopy
    - Dental care
    - Sterilisation, Equipment, Hygiene Therapeutic Systems and Devices
    - Implants / Exoprothesis

- Patient Diagnostics
- Imaging Techniques
- in-vitro Diagnostics
- Laser Technology / Optical Systems
- eHealth / Telemedicine
- Tissue Engineering / Regenerative Medicine

- **ZAB Brandenburg.** The Brandenburg Economic Development Board GmbH (ZAB) is the main contact point for all issues relating to business settlements, innovative small and medium-sized companies and technology-oriented start-up firms. It is Brandenburg's central contact for inquiries concerning innovation and (external) business promotion as well as energy, technology transfer and cluster management. ZAB functions as a one-stop agency dealing with individual clients on a project-to-project basis. Its regional centers offer clients on-the-spot consultation service. ZAB works as a "Partner for the Future" together with the InvestitionsBank des Landes Brandenburg (ILB) and BC Brandenburg Capital GmbH. This partnership ensures fast and specific advice on regional, central and EU funding as well as all aspects of finance. Together with Berlin Partner GmbH, ZAB commercialises the business and science location Berlin-Brandenburg. Together with its partner organisations in Berlin, ZAB commercialises the economic and scientific location Berlin-Brandenburg. The ZAB-team "International Business" supports external economic activities, like business travels, cooperation meetings and European projects. ZAB is a service agency regarding the development of business, innovation and technology and supports the technology transfer between science and businesses.It organises business promotion projects in the sector of innovation and technology, for the European Union, different federal departments, etc. The business support association "pro brandenburg e. V." links up ZAB with Brandenburg's entrepreneurs. ZAB Brandenburg operates several clusters including the Berlin-Brandenburg Photonics Cluster and the Berlin-Brandenburg Life Sciences and Healthcare cluster. The main focus of the Photonics cluster is on laser technology, semi-conductor radiation sources (laser diodes, LED), optical telecommunication technology (Internet of the next generation), packaging technology, silicon photonics, UV and x-rays, optical measuring technology, image processing, biomedical optics, and lighting engineering. The main focus of the Lifesciences and Healthcare cluster

Both were selected for a further evaluation since they had enough SMEs active in the fields concerned and supported the internationalization efforts in the LASER-Go targeted country regions.

3 Partner Evaluation and Final Selection

The partner evaluation and the final selection was done in two steps:

- First, a Partner Evaluation Guide was prepared
- Second, the analysis of the shortlisted companies was done using the Guide
- Third, the final selection was approved following the negotiations with the selected clusters.

3.1 Partner evaluation guide

The Partner Evaluation Guide foresees the initial assessment of the cross-organisation fit based on the following. Four aspects have been assessed which forms the groups of criteria, namely:

1. **The level of cluster specialization in the field** (a number of companies in the cluster in and a share of the cluster members having experience in the field in particular).
2. **The level of internationalization activities** (in terms of the importance of the internationalization in the cluster strategy and the involvement in the European Cluster Collaboration Platform).
3. **The level of involvement in cluster cooperation** (the extent to which the cluster is involved in the cooperation activities with other cluster organisations, the extent to which the cluster is involved in other EU projects not directly involving cluster organisations, the level or the likelihood of financial stability).
4. **The level of willingness to collaborate in a new partnership** (the degree to which the cluster organisation's culture align with the current consortium, the level of interest in collaboration with the planned or enlarged cluster partnership, the likelihood that the consortium could negotiate an open and fair contract with this cluster).

Using the above the list of the criteria was identified as below.

The level of cluster specialization in the field:

- *Number of companies*: the score of 0 was assigned if less than 5 companies, 1 if 5-20 companies, 2 if 21-50 companies, 3 if 51- 100 companies, 4 if 101- 150 companies, 5 if more than 200 companies.
- *A share of companies having the competence in the field of laser and photonics technologies*: the score of 0 was assigned if less 5% cluster companies, 1 if 5 - 10% cluster companies, 2 if 10 - 25% cluster companies, 3 if 25 -50% cluster companies, 4 if 50-75% cluster companies, 5 if more than 75% cluster companies.

The level of internationalization activities:

- To what degree does internationalisation play a significant role in this cluster's strategy? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.

- Part of the European Cluster Collaboration Platform (ECCP)? The score of 1 was assigned if a cluster organisation and a cluster was listed on the ECCP.

The level of involvement in cluster cooperation:

- To what extent is the cluster involved in cluster cooperation? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.
- To what extent is the cluster involved in other EU projects? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.
- What is the likelihood that this partner has the financial stability for a long-term partnership? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.

The level of willingness to collaborate in a new partnership:

- To what degree does the partner's company culture align with the current consortium? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.
- Interest in Collaboration within the Laser Go Project? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong
- What is the likelihood that we could negotiate an open and fair contract with this cluster? The scoring was given as following: 0: Unacceptable, 1: Very Weak, 2: Weak, 3: Neutral/Average, 4: Strong, 5: Very strong.

The weights assigned to each criterion indicated in the table below.

Table 1: The weights assigned to each criterion

Criterion	Weight
A) The level of cluster specialization in the field	
1. Number of companies	5%
2. Competence in laser and photonic technologies	15%
A total weight per specialization in the field	**20%**
B) The level of internationalization activities	
3. To what degree does internationalisation play a significant role in this cluster's strategy	15%
4. Part of the European Cluster Collaboration Platform (ECCP)?	5%
A total weight for the criteria group internationalization activities	**20%**
C) The level of involvement in cluster cooperation	
5. To what extent is the cluster involved in cluster cooperation?	10%
6. To what extent is the cluster involved in other EU projects?	5%

Criterion	Weight
7. What is the likelihood that this partner has the financial stability for a long-term partnership	5%
A total weight for the criteria group "Experience in collaboration"	*20%*
D) The level of willingness to collaborate in a new partnership	
8. To what degree does the partner's company culture align with the current consortium?	5%
9. Interest in Collaboration within the Laser Go Project?	15%
10. What is the likelihood that we could negotiate an open and fair contract with this cluster?	20%
A total weight for the criteria group "Willingness to collaboration"	*40%*

3.2 Partner evaluation and selection

The following partner evaluation and selection procedure has been followed.

1) A shortlist of 10 clusters (from the initial pool of 98 clusters as listed in Annex) have been created based on the recommendations by the experts in each cluster;
2) A final selection of 3 clusters have been made on the basis of the comparison of 10 cluster organisations according to the Partner Evaluation Guide;
3) The existing and selected new partners have been analysed according to their interest and an organisational fit within the existing consortium.

Due to the confidentiality the names of four clusters which have evaluated but did not make into the final list of the selected clusters have been anonymized.

A comparison of the potential partners (cluster organisations) was based on two scores: a total weighted score and a total fit score (a percentage from the maximum score). The results are presented in Figures 3 and 4.

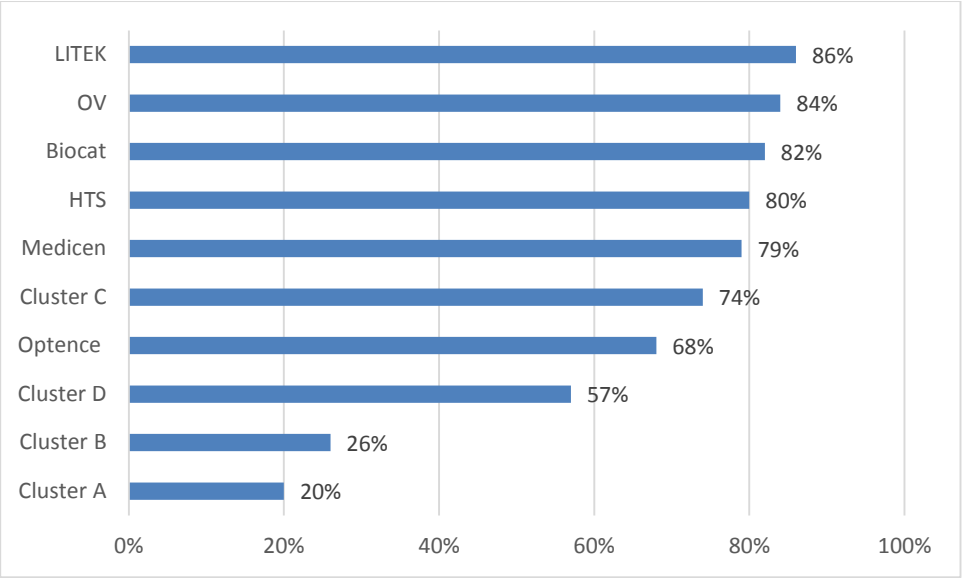

Figure 3: A comparison of the clusters according to the estimated level of organisational fit

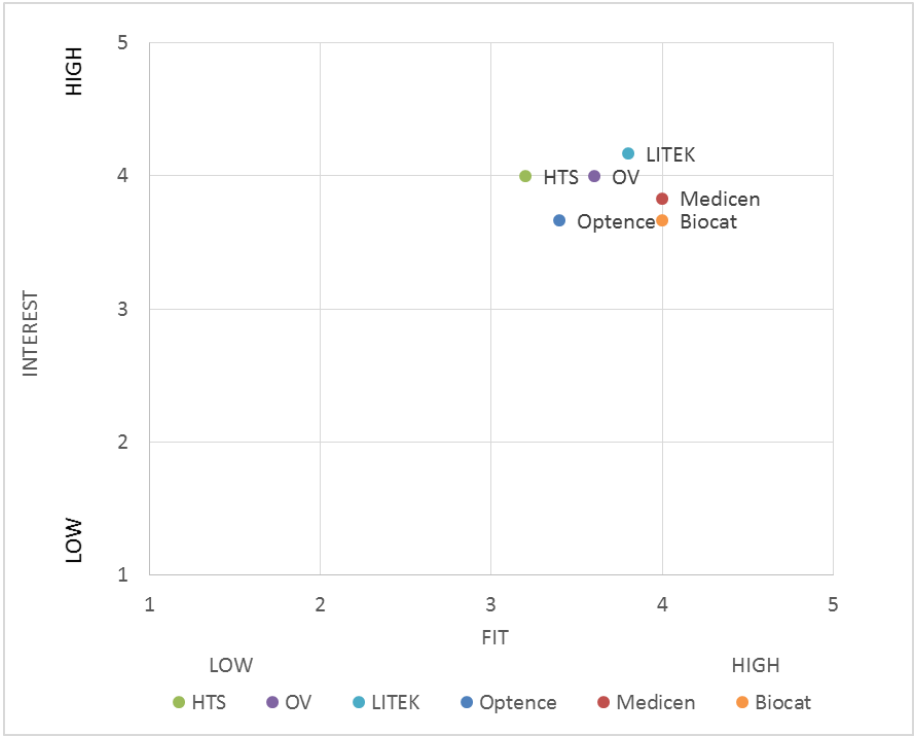

Figure 4: A comparison of the partners according to the estimated level of their interest and fit

The analysis has shown that comparing to the existing members of the consortium the following three clusters had the closest match, namely, Biocat, Optence and Medicen.

Each of the selected clusters have been further approached and the negotiations ensured result in the involvement of the partners in the partnership. The additional information gathered from each cluster yielded the following information about each of the newly involved partner:

- **Medicen Paris Region (Medicen)**, the life sciences cluster of the Paris Region (Île-de-France), one of the largest clusters in Europe specialized in biotech, digihealth and medical devices,

having over 300 members including 200+ SMEs. Since its foundation in 2005, the cluster have accredited 250+ R&D projects for a total budget of €1.12 billion. The cluster is a member of the Council of European Bio Regions (CEBR) and European Diagnostic Cluster Alliance (EDCA) and as of Jan 2017 – Medicen has been an associate partner of EIT Health.

- **Biocat**, a cluster in Catalonia, specialized in healthcare and life sciences, brings together 871 companies and 95 research bodies, including 41 research centers, 18 university hospitals, 14 science and technology parks. 3 large research infrastructures: ALBA Synchrotron, the Barcelona Supercomputing Centre, CNAG-CRG. Since 2012 the cluster has been part of the bioXclusters, the ECCP Partnership on Personalized Health, and is also a member of EIT Health and CEBR.
- **Optence**, one of the important clusters in optical technology in Germany, a member of OptecNet Deutschland, the "Go-Cluster" program of the Federal Ministry of Economics and Energy, bringing together 85 companies within the regions of Rheinland Pfalz and Hessen and beyond, including the Swiss cluster Swissmem / Photonics.

The information from new clusters have been put together with the figures of the existing cluster members to present the following big picture of the meta-cluster network under development.

Altogether six clusters (three from the field of photonics – Opticsvalley, Optence, LITEK – and three from the field of health and health tech – Medicen, Biocat and Human.technology) have agreed to further develop the European Strategic Cluster Partnership of Photonics for Health (LASER-GO) resulting in a Global Value Network, an open alliance. Altogether this network would see the creation of the alliance of the clusters having access to more than 1600 companies and some 120 RTOs from the involved bioregions and the photonics regions. Further, Biocat would act as an access point to the bioXclusters partnership which along with Catalonia involves three major bioregions having a network 1700 companies in Bavaria (BioM), Piemonte (bioPmed), Rhône-Alpes (Lyonbiopole). Thus, by the end of the Strand 2 action LASER-GO GLOBAL would be able to reach some 2300 companies covering 9 EU regions in 5 EU Members States (Spain, France, Germany, Austria and Lithuania)

4 Conclusions

The Partner Screening and Evaluation Guide helped to identify the best-fitting partners for the existing consortium, namely Biocat (Barcelona), Medicine (Paris) and Optence (Rhineland-Palatinate Germany). The negotiations which ended with the involvement of those clusters in the LASER-GO partnership have been quick and easy due to the fact that a systematic approach was adopted for the partner selection and evaluation process. The Partner Screening and Evaluation Guide could also be used for analysing any other cluster organisations that come into contact with the partnership members and propose, initiate or plan joined activities. A well designed vetting process helps to create more stable and sustainable relationships between the cluster organisations and the business networks they represent.

Annex: A list of the clusters in Europe related to the emerging industry of medical devices registered on the ECCP

Table 2: Result of the Cluster search on the ECCP. All clusters in Europe related to the emerging industry of medical devices registered on the ECCP, http://clustercollaboration.eu (as on 13 April, 2017)

No.	Name	Country	Sector(s)
1	3D Makers Zone	Netherlands	• Education and Knowledge Creation, Plastics, Water Transportation • Environmental Industries, Medical Devices • 3D printing, Clean Production / Green Technologies, Soil and Groundwater Pollution • Advanced manufacturing systems, Advanced materials, Sewerage
2	AINS cluster Nutrition and Health-Asociación empresarial Innvoadora Nutrición y Salud	Spain	• Biopharmaceuticals, Food Processing and Manufacturing • Bio-pharmaceuticals, Digital Industries, Medical Devices • Food Additives/Ingredients/Functional Food, Gene Expression, Proteome Research • Food, beverage & tobacco products, Food security & safety, New products or services that meet social needs
3	ALPHA-RLH Route des Lasers et des Hyperfréquences	France	• Aerospace Vehicles and Defense, Information Technology and Analytical Instruments, Lighting and Electrical Equipment • Digital Industries, Experience Industries, Medical Devices • Network Technology, Network Security, Aeronautical technology / Avionics, Optical Materials • Aeronautics, Power generation / renewable sources, Photonics
4	Alsace BioValley	France	• Biopharmaceuticals • Bio-pharmaceuticals, Medical Devices • Biochemistry / Biophysics, Molecular design, Surgery • Human health activities (medical services)
5	Arahealth	Spain	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Biochemistry / Biophysics, Pharmaceutical Products / Drugs, Applications for Health • e-Health (e.g. healthy ageing), Human health activities (medical services), Biotechnology

No.	Name	Country	Sector(s)
6	Associação Pool-Net - Portuguese Tooling Network	Portugal	• Aerospace vehicles and Defence, • Automotive, Plastics • Advanced Packaging, Digital Industries, Medical Devices • Advanced manufacturing systems, Advanced materials, Motor vehicles & other transport equipment
7	ASTER - LIFE SCIENCES PLATFORM	Italy	• Biopharmaceuticals, Downstream Chemical Products, Information Technology and Analytical Instruments • Bio-pharmaceuticals, Medical Devices • Cellular and Molecular Biology, Health information management, Pharmaceutical Products / Drugs • Human health activities (medical services), Ageing societies, Public health and well-being
8	Beauty Cluster Barcelona	Spain	• Biopharmaceuticals, Downstream Chemical Products, Paper and Packaging • Advanced Packaging, Creative Industries, Medical Devices • Fine Chemicals, Dyes and Inks, Packaging for materials, Plastic bags • e-Health (e.g. healthy ageing), Biotechnology, Chemicals & chemical products
9	Biocat (Bioregion of Catalonia)	Spain	• Biopharmaceuticals, Education and Knowledge Creation • Bio-pharmaceuticals, Medical Devices • e-Health (e.g. healthy ageing), Human health activities (medical services), Public health and well-being
10	BioLAGO e.V. life science network	Germany	• Biopharmaceuticals, Business Services, Education and Knowledge Creation • Bio-pharmaceuticals, Medical Devices • Technology, Society and Employment • Human health activities (medical services), Biotechnology, Scientific research & development
11	BioM Biotech Cluster Development GmbH	Germany	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Diagnostics, Diagnosis, Pharmaceutical Products / Drugs • e-Health (e.g. healthy ageing), Industrial

No.	Name	Country	Sector(s)
			biotechnology, Biotechnology
12	bioPmed / Bioindustry Park	Italy	• Biopharmaceuticals, Business Services • Bio-pharmaceuticals, Medical Devices • Diagnostics, Diagnosis, Medical Technology / Biomedical Engineering, Pharmaceutical Products / Drugs • Ageing societies, Public health and well-being, Scientific research & development
13	biosaxony e.V.	Germany	• Biopharmaceuticals, Marketing • Bio-pharmaceuticals, Medical Devices • Protein Engineering, Medical Biomaterials, Micro- and Nanotechnology related to Biological sciences • Human health activities (medical services), Industrial biotechnology, Biotechnology
14	BioTechMed Mazovia Cluster	Poland	• Biopharmaceuticals • Bio-pharmaceuticals, Medical Devices, Mobility Technologies • Biochemistry / Biophysics, Diagnostics, Diagnosis, Medical Biomaterials • Basic pharmaceutical products & pharmaceutical preparations, Biotechnology, Nanotechnology & engineering
15	BioWin	Belgium	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Medical Technology / Biomedical Engineering, Pharmaceutical Products / Drugs, Stem cell Technologies • e-Health (e.g. healthy ageing), Advanced manufacturing systems, Biotechnology
16	Business Cluster Semiconductors Netherlands	Netherlands	• Information Technology and Analytical Instruments • Advanced Packaging, Digital Industries, Medical Devices • Micro and Nanotechnology related to Electronics and Microelectronics, Nanotechnologies related to electronics & microelectronics, Semiconductors • Advanced manufacturing systems, Micro/Nano electronics
17	C.H.I.CO. Cluster of Health,	Italy	• Biopharmaceuticals, Food Processing and Manufacturing, Information Technology and

No.	Name	Country	Sector(s)
	Innovation and Community		Analytical Instruments • Bio-pharmaceuticals, Environmental Industries, Medical Devices • Food Additives/Ingredients/Functional Food, Clinical Research, Trials, Applications for Health • e-Health (e.g. healthy ageing), Human health activities (medical services), Biotechnology
18	Campania Bioscience - Cluster on Life Sciences	Italy	• Biopharmaceuticals, Food Processing and Manufacturing • Bio-pharmaceuticals, Digital Industries, Medical Devices • Cellular and Molecular Biology, Bioinformatics, Bio-based Materials • Industrial biotechnology, Biotechnology, Food security & safety
19	Catalonia Mental Health Cluster	Spain	• Appliances, Biopharmaceuticals, Information Technology and Analytical Instruments • Bio-pharmaceuticals, Creative Industries, Medical Devices • Health information management, Neurology, Brain Research • e-Health (e.g. healthy ageing), Human health activities (medical services), Social innovation with regard to social inclusion
20	CataloniaBio	Spain	• Biopharmaceuticals • Bio-pharmaceuticals, Medical Devices • Bioinformatics, Medical Technology / Biomedical Engineering, Pharmaceutical Products / Drugs • Industrial biotechnology, Nanotechnology
21	CBM scrl	Italy	• Biopharmaceuticals, Information Technology and Analytical Instruments • Bio-pharmaceuticals, Digital Industries, Medical Devices • Diagnostics, Diagnosis, Medical Research, Pharmaceutical Products / Drugs • e-Health (e.g. healthy ageing), Industrial biotechnology, Public health and well-being
22	Cluster Lombardo Scienze della Vita	Italy	• Biopharmaceuticals, Education and Knowledge Creation • Bio-pharmaceuticals, Digital Industries, Medical Devices • Diagnostics, Diagnosis, Medical Technology / Biomedical Engineering, Pharmaceutical

No.	Name	Country	Sector(s)
			Products / Drugs • e-Health (e.g. healthy ageing), Industrial biotechnology, Social innovation with regard to health, well-being and elder care
23	Cluster Mechatronik & Automation	Germany	• Automotive, Information Technology and Analytical Instruments, Production Technology and Heavy Machinery • Digital Industries, Medical Devices, Mobility Technologies • Microengineering and nanoengineering, Manufacturing plants networks, Process automation • Advanced manufacturing systems, Computer, electronic & optical products, Resource efficiency
24	DSP Valley	Belgium	• Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Embedded Systems and Real Time Systems, Semiconductors, Digital Systems, Digital Representation • Micro/Nano electronics
25	e-Living Association	Italy	• Appliances, Information Technology and Analytical Instruments • Digital Industries, Medical Devices • Automation, Robotics Control Systems, Applications for Health, Sensor Technology related to measurements • e-Health (e.g. healthy ageing), ICT trust, cyber security & network security
26	ECDF mKlaster	Poland	• Communications Equipment and Services, Information Technology and Analytical Instruments, Marketing • Creative Industries, Digital Industries, Medical Devices • Applications for Health, Information Technology/Informatics, Internet Technologies/Communication (Wireless, Bluetooth) • e-Health (e.g. healthy ageing), Computer programming, consultancy & related activities, Programming & broadcasting activities
27	Elastopôle	France	• Automotive, Plastics, Vulcanized and Fired Materials

No.	Name	Country	Sector(s)
			• Digital Industries, Medical Devices, Mobility Technologies • Bio based materials, Plastics, Polymers, Rubber • Advanced materials, Rubber & plastic products, Resource efficiency
28	Estonian Connected Health Cluster	Estonia	• Biopharmaceuticals, Information Technology and Analytical Instruments • Digital Industries, Medical Devices • Biochemistry / Biophysics, Health information management, Bioinformatics • e-Health (e.g. healthy ageing), Public health and well-being
29	EUROBIOMED	France	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Diagnostics, Diagnosis, Medical Technology / Biomedical Engineering, Pharmaceutical Products / Drugs • e-Health (e.g. healthy ageing), Human health activities (medical services), Public health and well-being
30	Flam3D vzw	Belgium	• Aerospace Vehicles and Defence, Apparel, Automotive • Creative Industries, Digital Industries, Medical Devices • 3D printing • Advanced manufacturing systems, Advanced materials
31	Fondazione Cluster Tecnologie per le Smart Cities & Communities Lombardia	Italy	• Appliances, Information Technology and Analytical Instruments, Lighting and Electrical Equipment • Digital Industries, Medical Devices, Mobility Technologies • Remote diagnostics, Sensors & Wireless products, Micro and Nanotechnology related to Electronics and Microelectronics • e-Health (e.g. healthy ageing), Intelligent inter-modal & sustainable urban areas (e.g. smart cities)
32	GAIA.-Association of Electronic and Information Technologies in	Spain	• Communications Equipment and Services, Information Technology and Analytical Instruments, Production Technology and Heavy Machinery • Bio-pharmaceuticals, Creative Industries,

No.	Name	Country	Sector(s)
	the Basque Country		Medical Devices • Electronic engineering, ERP - Electronic Resources Planning, Cloud Technologies • Power generation / renewable sources, Information service activities, Machinery & equipment
33	Granada Health Technology Park (PTS)	Spain	• Biopharmaceuticals, Business Services, Education and Knowledge Creation • Bio-pharmaceuticals, Medical Devices • Cellular and Molecular Biology, Bioinformatics, Medical Research • e-Health (e.g. healthy ageing), Biotechnology, Public health and well-being
34	Health Romania The Medical Cluster	Romania	• Education and Knowledge Creation, Hospitality and Tourism • Medical Devices • Health information management • Human health activities (medical services)
35	Health Valley Netherlands	Netherlands	• Biopharmaceuticals, Business Services, Education and Knowledge Creation • Bio-pharmaceuticals, Digital Industries, Medical Devices • Health information management, Medical Technology / Biomedical Engineering, Technology, Society and Employment • e-Health (e.g. healthy ageing), Human health activities (medical services)
36	HealthTech Cluster	Spain	• Biopharmaceuticals, Information Technology and Analytical Instruments • Digital Industries, Medical Devices • Health information management, Sensors & Wireless products, Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Open data & sharing of public sector information, Human health activities (medical services)
37	Hellenic BioCluster (HBio)	Greece	• Biopharmaceuticals, Business Services, Education and Knowledge Creation • Bio-pharmaceuticals, Medical Devices • Cellular and Molecular Biology, Bioinformatics, Pharmaceutical Products / Drugs • e-Health (e.g. healthy ageing), Human health activities (medical services), Industrial

No.	Name	Country	Sector(s)
			biotechnology
38	High Tech NL	Netherlands	• Education and Knowledge Creation, Information Technology and Analytical Instruments, Production Technology and Heavy Machinery • Digital Industries, Medical Devices, Mobility Technologies • Embedded Systems and Real Time Systems, Micro and Nanotechnology related to Electronics and Microelectronics, Semiconductors • Advanced manufacturing systems, Micro/Nano electronics, Computer, electronic & optical products
39	Human.technology Styria GmbH	Austria	• Business Services • Bio-pharmaceuticals, Digital Industries, Medical Devices • Sensors & Wireless products, Diagnostics, Diagnosis, Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Human health activities (medical services), Micro/Nano electronics
40	I-Care Cluster	France	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Health information management, Remote diagnostics, Sensors & Wireless products • e-Health (e.g. healthy ageing), Ageing societies, Public health and well-being
41	ICT Techology Network Institute	Slovenia	• Business Services, Communications Equipment and Services, Information Technology and Analytical Instruments • Digital Industries, Logistical Services, Medical Devices • e-Health (e.g. healthy ageing), High speed broadband: last mile networks (>30 Mbps), Intelligent inter-modal & sustainable urban areas (e.g. smart cities)
42	ID2Santé	France	• Biopharmaceuticals, Business Services • Bio-pharmaceuticals, Medical Devices • Toxicology, Remote diagnostics, Medical Technology / Biomedical Engineering • Marine biotechnology, e-Health (e.g. healthy ageing), Biotechnology

No.	Name	Country	Sector(s)
43	IDM Suedtirol - Alto Adige Ecosystem Health & Wellness	Italy	• Hospitality and Tourism • Bio-pharmaceuticals, Medical Devices • Indoor Air Pollution/Treatment, Outdoor Air Pollution/Treatment, Sports and Leisure • Human health activities (medical services), Ecotourism, Public health and well-being
44	INFOPOLE Cluster TIC	Belgium	• Communications Equipment and Services, Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Computer Software, Computer Technology/Graphics, Meta Computing, Information Technology/Informatics • Aeronautics, Transport & logistics, ICT trust, cyber security & network security
45	INNOSKART ICT Cluster	Hungary	• Environmental Services, Information Technology and Analytical Instruments • Digital Industries, Medical Devices • Advanced Systems Architecture, Cloud Technologies, Computer Software • Cleaner environment & efficient energy networks (e.g. smart grids), e-Health (e.g. healthy ageing), ICT trust, cyber security & network security
46	INNOVAAL	Italy	• Construction Products and Services, Information Technology and Analytical Instruments • Digital Industries, Logistical Services, Medical Devices • Sensors & Wireless products, Micro and Nanotechnology related to Electronics and Microelectronics, Internet of Things • e-Health (e.g. healthy ageing), Residential care activities, Micro/Nano electronics
47	Irish Software Innovation Network (ISIN)	Ireland	• Business Services, Financial Services, Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Computer Software, Data Protection, Storage, Cryptography, Security, Internet of Things • e-Health (e.g. healthy ageing), ICT trust, cyber security & network security, Computer programming, consultancy & related activities
48	ISTANBUL HEALTH	Turkey	• Biopharmaceuticals

No.	Name	Country	Sector(s)
	INDUSTRY CLUSTER		• Bio-pharmaceuticals, Medical Devices • Health information management, Remote diagnostics, Biobased Materials • e-Health (e.g. healthy ageing), Biotechnology
49	IVAM Microtechnology Network	Germany	• Information Technology and Analytical Instruments • Digital Industries, Medical Devices • Sensors & Wireless products, Micro- and Nanotechnology related to Biological sciences, Micro- and Nanotechnology • Advanced materials, Micro/Nano electronics, Nanotechnology
50	Joensuu Science Park	Finland	• Business Services, Education and Knowledge Creation, Production Technology and Heavy Machinery • Creative Industries, Medical Devices • Micromachining, nanomachining, Moulding, injection moulding, sintering, Optical Materials • Forestry & logging, Power generation / renewable sources, Photonics
51	Klaster LifeScience Krakow	Poland	• Biopharmaceuticals, Hospitality and Tourism • Bio-pharmaceuticals, Medical Devices, Mobility Technologies • Biochemistry / Biophysics, Health information management, Bioinformatics • e-Health (e.g. healthy ageing), Human health activities (medical services), Basic pharmaceutical products & pharmaceutical preparations
52	Košice IT Valley	Slovakia	• Information Technology and Analytical Instruments • Creative Industries, Digital Industries, Medical Devices • Information Technology/Informatics • Computer programming, consultancy & related activities, Information service activities, Motion picture, video & television programme production, sound recording & music publishing activities
53	Life Science Nord	Germany	• Biopharmaceuticals, Business Services • Bio-pharmaceuticals, Medical Devices • Diagnostics, Diagnosis, Medical Technology / Biomedical Engineering, Pharmaceutical Products / Drugs

No.	Name	Country	Sector(s)
			• e-Health (e.g. healthy ageing), Human health activities (medical services), Biotechnology
54	lifetech.brussels	Belgium	• Biopharmaceuticals • Digital Industries, Medical Devices • Health information management, Remote diagnostics, Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Human health activities (medical services), Social innovation with regard to health, well-being and elder care
55	LITEK	Lithuania	• Lighting and Electrical Equipment • Medical Devices, Mobility Technologies • Apparatus Engineering, Micro- and Nanotechnology, Optics • Advanced manufacturing systems, Photonics, Computer, electronic & optical products
56	Lithuanian Laser Association	Lithuania	• Information Technology and Analytical Instruments • Environmental Industries, Medical Devices • Micromachining, nanomachining, Optical Technology related to measurements, Optics • Photonics
57	Lithuanian Medical Tourism Cluster	Lithuania	• Education and Knowledge Creation, Hospitality and Tourism • Creative Industries, Digital Industries, Medical Devices • Dentistry / Odontology, Stomatology, Diagnostics, Diagnosis, Surgery • Human health activities (medical services), Residential care activities
58	Lombardy Cluster Technologies for Living Environments	Italy	• Information Technology and Analytical Instruments • Medical Devices • Health information management, Sensors & Wireless products, Medical Research • e-Government (e.g. e-Procurement, e-Participation), e-Health (e.g. healthy ageing), Human health activities (medical services)
59	Lublin Medicine-Medical and Wellness Cluster	Poland	• Appliances, Biopharmaceuticals, Hospitality and Tourism • Bio-pharmaceuticals, Experience Industries, Medical Devices • Diagnostics, Diagnosis, Medical Research,

No.	Name	Country	Sector(s)
			Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Human health activities (medical services), Biotechnology
60	LYONBIOPOLE	France	• Biopharmaceuticals • Bio-pharmaceuticals, Digital Industries, Medical Devices • Cellular and Molecular Biology, Health information management, Diagnostics, Diagnosis • e-Health (e.g. healthy ageing), Human health activities (medical services), Industrial biotechnology
61	Madan Parque	Portugal	• Business Services, Environmental Services, Information Technology and Analytical Instruments • Creative Industries, Medical Devices, Mobility Technologies • Computer programming, consultancy & related activities, Biotechnology, Sustainable energy & renewables
62	MATERALIA	France	• Automotive, Downstream Metal Products, Metalworking Technology • Environmental Industries, Medical Devices, Mobility Technologies • Surface treatment (painting, galvano, polishing, CVD, ..), Lightweight materials, Properties of Materials, Corrosion/Degradation • Advanced manufacturing systems, Advanced materials, Basic metals & of fabricated metals products
63	MATIKEM	France	• Paper and Packaging, Plastics, Upstream Chemical Products • Advanced Packaging, Medical Devices • Biobased materials, Plastics, Polymers, Properties of Materials, Corrosion/Degradation • Advanced materials, Chemicals & chemical products, Rubber & plastic products
64	Measurement Valley e.V.	Germany	• Information Technology and Analytical Instruments • Medical Devices • Optical material testing, Other Non-Destructive Testing, Sensor Technology related to measurements • Advanced manufacturing systems, Micro/Nano electronics, Machinery & equipment

No.	Name	Country	Sector(s)
65	MedicalMountains AG.	Germany	• Information Technology and Analytical Instruments, Metalworking Technology, Production Technology and Heavy Machinery • Medical Devices • Machining (turning, drilling, moulding, planning, cutting), Metals and Alloys, Plastics, Polymers • e-Health (e.g. healthy ageing), Human health activities (medical services)
66	MEDICEN PARIS REGION	France	• Biopharmaceuticals, Business Services, Information Technology and Analytical Instruments • Bio-pharmaceuticals, Digital Industries, Medical Devices • In vitro Testing, Trials, Health information management, Sensors & Wireless products • e-Health (e.g. healthy ageing), Industrial biotechnology, Ageing societies
67	MedSilesia Cluster	Poland	• Business Services • Medical Devices, Mobility Technologies • Clinical Research, Trials, Heart and blood circulation illnesses, Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Human health activities (medical services), Social innovation with regard to health, well-being and elder care
68	mi-Cluster	Greece	• Communications Equipment and Services, Electric Power Generation and Transmission, Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Electronic engineering, Micro and Nanotechnology related to Electronics and Microelectronics, Semiconductors • Telecommunications, Micro/Nano electronics, Nanotechnology & engineeringwith regard to health, well-being and elder care
69	microTEC Südwest e.V.	Germany	• Automotive, Biopharmaceuticals, Production Technology and Heavy Machinery • Digital Industries, Experience Industries, Medical Devices • Micro- and Nanotechnology related to Biological sciences, Micro- and Nanotechnology • Advanced manufacturing systems, Micro/Nano

No.	Name	Country	Sector(s)
			electronics, Sustainable production & consumption
70	Minalogic	France	• Communications Equipment and Services, Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Micro and Nanotechnology related to Electronics and Microelectronics, Digital Systems, Digital Representation, Internet of Things • Industrial biotechnology, Micro/Nano electronics, Photonics
71	Non-profit partnership ”Pharmaceutical cluster of Kaluga region”	Russian Federation	• Biopharmaceuticals, Downstream Chemical Products • Bio-pharmaceuticals, Medical Devices • Pharmaceutics • Human health activities (medical services)
72	NUTRIBIOMED Klaster	Poland	• Biopharmaceuticals, Business Services, Food Processing and Manufacturing • Advanced Packaging, Bio-pharmaceuticals, Medical Devices • Food Additives/Ingredients/Functional Food, Food Technology, Pharmaceutical Products / Drugs • Basic pharmaceutical products & pharmaceutical preparations, Food, beverage & tobacco products, Other professional, scientific & technical activities
73	One Nucleus	United Kingdom	• Biopharmaceuticals • Bio-pharmaceuticals, Medical Devices • Cellular and Molecular Biology, Protein Engineering, Pharmaceutical Products / Drugs • Biotechnology
74	OPTICSVALLEY	France	• Business Services • Creative Industries, Medical Devices, Mobility Technologies • Automation, Robotics Control Systems, Micro- and Nanotechnology, Optics • Micro/Nano electronics, Nanotechnology, Photonics
75	OptoNet e.V.	Germany	• Aerospace Vehicles and Defence, Lighting and Electrical Equipment, Production Technology and Heavy Machinery

No.	Name	Country	Sector(s)
			• Bio-pharmaceuticals, Medical Devices, Mobility Technologies • Micro and Nanotechnology related to Electronics and Microelectronics, Optical Networks and Systems, Optics • Aeronautics & environment, Safety & security, Space
76	mAgora Quality of Life Cluster	Hungary	• Appliances, Business Services, Food Processing and Manufacturing • Medical Devices • Food Additives/Ingredients/Functional Food, Health information management, Diagnostics, Diagnosis • Food, beverage & tobacco products, Public health and well-being, Scientific research & development
77	Photonics cluster OPTITEC	France	• Aerospace Vehicles and Defence, Food Processing and Manufacturing, Information Technology and Analytical Instruments • Advanced Packaging, Bio-pharmaceuticals, Medical Devices • Micro- and Nanotechnology related to agrofood, Food Packaging / Handling, Automation, Robotics Control Systems • Photonics
78	Plastipolis	France	• Automotive, Plastics, Production Technology and Heavy Machinery • Advanced Packaging, Medical Devices, Mobility Technologies • Bio-based materials, Composite materials, Plastics, Polymers • Advanced manufacturing systems, Advanced materials, Rubber & plastic products
79	PLASTIWIN	Belgium	• Plastics • Advanced Packaging, Creative Industries, Medical Devices • Plastics and Rubber related to Chemical Technology, Textile fibres, Recycling, Recovery • Advanced materials • Waste management
80	Pôle MecaTech	Belgium	• Aerospace Vehicles and Defence, Electric Power Generation and Transmission, Production Technology and Heavy Machinery • Digital Industries, Medical Devices

No.	Name	Country	Sector(s)
			• Micro- and Nanotechnology related to Biological sciences, 3D printing, Smart grids • Advanced manufacturing systems, Advanced materials, Waste collection, treatment & disposal activities, materials recovery & remediation activities
81	Polish Innovative Medical Cluster PIKMED	Poland	• Hospitality and Tourism • Medical Devices • Health information management, Safety & systems, Sensors & Wireless products • e-Health (e.g. healthy ageing), Human health activities (medical services), Public health and well-being
82	PROPLAST	Italy	• Plastics • Advanced Packaging, Medical Devices • 3D printing, Plastics, Polymers, Packaging for materials • Advanced manufacturing systems, Advanced materials, Nanotechnology
83	RoHealth - The Health Cluster	Romania	• Biopharmaceuticals, Business Services • Bio-pharmaceuticals, Medical Devices • Health information management, Bio-based Materials, Medical Technology / Biomedical Engineering • e-Health (e.g. healthy ageing), Scientific research & development, New products or services that meet social needs
84	ROVEST Cluster	Romania	• Business Services, Education and Knowledge Creation, Hospitality and Tourism • Creative Industries, Medical Devices, Mobility Technologies • Physiotherapy, Orthopaedic Technology, Applications for Health, Education and Training • e-Government (e.g. e-Procurement, e-Participation), e-Health (e.g. healthy ageing), Human health activities (medical services)
85	RTD HEALTH CLUSTER	Bosnia and Herzegovina	• Education and Knowledge Creation • Medical Devices • Health information management, Clinical Research, Trials, Medical Research • Human health activities (medical services)
86	sEaNERGIA Baltic Cluster	Poland	• Business Services, Environmental Services, Hospitality and Tourism

No.	Name	Country	Sector(s)
			• Blue Growth Industries, Environmental Industries, Medical Devices • Process optimisation, waste heat utilisation, Geothermal energy, Ecology • Blue renewable energy, Power generation / renewable sources, Ecotourism
87	SECPhO - Light Technologies Cluster	Spain	• Agricultural Inputs and Services, Automotive, Information Technology and Analytical Instruments • Advanced Packaging, Medical Devices, Mobility Technologies • Imaging, Image Processing, Pattern Recognition, Micro- and Nanotechnology, Optics • Photonics, Smart green & integrated transport systems, Sustainable agriculture
88	SIVI Cluster	Spain	• Appliances, Communications Equipment and Services, Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Health information management, Remote diagnostics, Sensors & Wireless products • Residential care activities, Ageing societies, Public health and well-being
89	Software Innovation Pole Cluster (cluster management organisation is DEAK Plc.)	Hungary	• Information Technology and Analytical Instruments • Digital Industries, Medical Devices, Mobility Technologies • Cloud Technologies, Internet of Things, Smart Appliances • e-Health (e.g. healthy ageing), Intelligent inter-modal & sustainable urban areas (e.g. smart cities), Computer programming, consultancy & related activities
90	Sports&Technology	Netherlands	• Business Services, Recreational and Small Electric Goods • Creative Industries, Medical Devices • Sports and Leisure • Sports activities, e-Health (e.g. healthy ageing), Public health and well-being
91	Strategische Partnerschaft Sensorik	Germany	• Automotive, Information Technology and Analytical Instruments, Production Technology and Heavy Machinery • Digital Industries, Medical Devices, Mobility

No.	Name	Country	Sector(s)
	e.V./Cluster Sensorik		Technologies • Electronic engineering, Sensor Technology related to measurements, Education and Training • Automated driverless vehicles, e-Health (e.g. healthy ageing), New or improved service processes
92	TechnologyMountains e. V	Germany	• Metalworking Technology, Plastics, Production Technology and Heavy Machinery • Medical Devices • Medical Technology / Biomedical Engineering, Micro- and Nanotechnology related to Biological sciences, Plastics, Polymers • Human health activities (medical services), Micro/Nano electronics, Rubber & plastic products
93	TECHTERA	France	• Apparel, Paper and Packaging, Textile Manufacturing • Environmental Industries, Medical Devices • Medical Textiles • Advanced materials, Textiles, wearing apparel & leather& related products
94	TICBIOMED	Spain	• Communications Equipment and Services, Insurance Services • Digital Industries, Medical Devices, Mobility Technologies • Health information management, Safety & systems, Sensors & Wireless products • e-Health (e.g. healthy ageing), ICT trust, cyber security & network security, Social innovation with regard to health, well-being and elder care
95	Transylvania Regional Balneological Tourism Cluster	Romania	• Hospitality and Tourism • Blue Growth Industries, Environmental Industries, Medical Devices • Health information management, Environmental Medicine, Social Medicine, Sports Medicine, Biodiversity / Natural Heritage • Human health activities (medical services), Ecotourism, Waste collection, treatment & disposal activities, materials recovery & remediation activities
96	Tuscany Life Sciences Cluster	Italy	• Biopharmaceuticals, Business Services • Bio-pharmaceuticals, Medical Devices, Mobility Technologies • Diagnostics, Diagnosis, Medical Technology /

No.	Name	Country	Sector(s)
			Biomedical Engineering, Pharmaceutical Products / Drugs • Advanced manufacturing systems, Nanotechnology, Photonics
97	UP-tex	France	• Textile Manufacturing • Digital Industries, Medical Devices, Mobility Technologies • Advanced Textile Materials, Composite materials, Plastics, Polymers • Advanced manufacturing systems, Advanced materials, Textiles, wearing apparel & leather& related products
98	Wielkopolska ICT Cluster	Poland	• Communications Equipment and Services, Education and Knowledge Creation, Information Technology and Analytical Instruments • Creative Industries, Digital Industries, Medical Devices • Applications for Health, Visualisation, Virtual Reality, Broadband Technologies • e-Inclusion (e.g. e-Skills, e-Learning), ICT trust, cyber security & network security, New or improved organisational models