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Date: 29 October 2021

Stakeholder and related projects mapping



This project has received funding from the Bio-based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement N° 101023306



Technical References

Project Acronym	UNLOCK
Project Title	Unlocking a new feather bioeconomy for keratin-based agricultural products.
Project Coordinator	<u>Sarah Montes, CIDETEC</u>
Project Duration	48 months

Deliverable No.	D8.3
Dissemination level ¹	Public
Type of deliverable	Report
Work Package	WP8
Task	Task 8.3 Stakeholder mapping, empowerment and synergy building
Lead beneficiary	Fundacja UNIMOS
Contributing beneficiary(ies)	CIDETEC, G!E
Due date of deliverable	31 October 2021 (M6)
Actual submission date	29 October 2021

¹ PU = Public

PP = Restricted to other programme participants (including the Commission Services)

RE = Restricted to a group specified by the consortium (including the Commission Services)

CO = Confidential, only for members of the consortium (including the Commission Services)

Document history

V	Date	Beneficiary	Author
1	18 October 2021	UNIMOS	Katarzyna Rull Quesada
2			
3.1			





Summary

The UNLOCK project aims at unlocking a feather bioeconomy for keratin-based agricultural products. The overall objective is to contribute to replacing fossil-based raw materials with biobased, renewable material by valorizing current unused and underused by-products of poultry processing.

This deliverable includes a mapping of local and European stakeholders from different relevant market sectors, as well as mapping of identified projects and initiatives related to UNLOCK project, especially from:

- Bio-Based Industries Joint Undertaking (BBI JU),
- Horizon 2020 INNOSUP and
- European Strategic Cluster Partnerships funding under the COSME Programme (ESCP S3, ESCP 4x and ESCP 4i).

The main objectives of this deliverable are:

- To identify and map the stakeholder groups involved in the UNLOCK that are related to the project;
- To identify and map the related projects and initiatives that can contribute for the development of feather bioeconomy for keratin-based agricultural products;
- To create contact channels to manage the stakeholder groups and establish different actions to engage with different stakeholders;
- To identify potential synergies in view of creating a basis for a new cross-sectoral and cross-border linkages among UNLOCK partners and stakeholders for further creation of feather-based regional clusters;
- To empower cooperation and improve relationships between UNLOCK partnership and stakeholders to exchange knowledge, foster mutual learning and build competences needed for the development of bio-based industries.

Special focus has been put on existing associative mechanisms, such as cooperatives, clusters, networks that gather – among others - primary producers, innovation brokers and other relevant stakeholders from private, academic and non-governmental sectors. Additionally, logistics and technological (Industry 4.0, ICT, photonics) providers who may contribute to bio-based feather industry development and further new feather clusters deployment have been identified and analyzed.

This deliverable is a “living” document that will be periodically updated during the implementation of the UNLOCK project.



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1. Stakeholders mapping

1.1. Objectives of the stakeholders mapping

The UNLOCK project is an ambitious, multidisciplinary and collaborative European initiative focused on unlocking a feather bioeconomy and transforming current waste into a source of raw material for agriculture.

Although in the poultry sector more than 15 million tonnes of meat are produced annually and much of the waste here is already valorised, the vast quantity of feathers produced are unexploited. Feathers are made up to 90% of keratin - valuable protein that can provide a resource for biodegradable materials. Currently, only around 25% of feather waste is collected. What is gathered is frequently used for meal and fertiliser applications, which are seen as mid- to low-value applications, with low margins to match.

Still, there are many existing difficulties in collecting and processing feathers obtained from slaughterhouses –including supply chain constraints affecting logistics, transport modes and infrastructures; and related EU legislation - and UNLOCK partners will be working together on overcoming those challenges in a participatory way.

15 European partners will design economically and environmentally sustainable innovative value chains using four different processes to valorise the feathers: from mechanical treatment to steam explosion, microbial fermentation, or chemical hydrolysis, depending on the type of end products desired. The bio-based products generated will be tailored to the needs of the agriculture sector, with the creation of seed trays, nonwoven geotextiles, mulch films and hydroponic foams. Ultimately, this will help to establish a feather-based bioeconomy that can generate innovative bio-based functional materials for agricultural applications.

Taking into account the collaborative approach of the project and the need to overcome current challenges, different groups of stakeholders will be identified and engaged in the implementation of the project.

Therefore, the stakeholder mapping is considered a useful strategic tool for UNLOCK's implementation. It ensures partners identify current and future collaboration opportunities, as well as potential groups of people that could be interested in the project.





D8.3 Stakeholder and related projects mapping

The main objectives of elaboration of the stakeholder mapping are:

- to support UNLOCK partners in the execution of project activities;
- to put basis for the development of new feather-based clusters;
- to accelerate further market take up and commercialization of new keratin-based end-products to be demonstrated;
- to assess the communication and dissemination activities, mainly directed to effectively exploit and disseminate the project results.

The specific objectives of the stakeholders mapping can be summarized as follows:

- to identify and map the stakeholder groups involved in the UNLOCK that are related to the project;
- to identify relevant technologies providers in order to speed up and support the development of feather-based industries for keratin-based agricultural products;
- to create contact channels to manage the stakeholder groups and establish different actions to engage with different stakeholders;
- to identify potential synergies in a view of creating a basis for a new cross-sectoral and cross-border linkages among UNLOCK partners and stakeholders;
- to empower cooperation and improve relationships between UNLOCK partnership and stakeholders to exchange knowledge, foster mutual learning and build competences needed in the development of bio-based industries.

To reach its aims, this document is going to answer the following research questions:

- Who are the stakeholder groups in feather bio-based industries?
- What are the potential strategies to manage these stakeholders in an holistic manner?

According to UNLOCK implementation and needs, the stakeholder mapping is meant to be a living document. It will evolve through successive updates, may be expanded as needed and serve a different purpose over time.





D8.3 Stakeholder and related projects mapping

1.2. Methodology

In order to elaborate mapping of local and European stakeholders from different relevant market sectors, the project partners have started an active stakeholder analysis and networking, which is crucial to understand the key interests of the stakeholders, engage most relevant individuals and organizations and ensure their continuous involvement throughout the project.

Stakeholders can be defined as “*an individual, group, or organization who may affect, be affected by or perceive itself to be affected by a decision, activity, or outcome of a project.*”

After performing extensive analysis of literature, UNLOCK activities and specific keratin-based end-products to be demonstrated, synergic, multilevel and complementary approaches have been selected to be used in UNLOCK stakeholder mapping:

- **Quadruple Helix (4H) Innovation Framework** – where academia (R&D, universities), government (local, regional, European policy makers), industry (SME, start-ups, large companies) and users/civil society collaborate with each other in order to create or discover new knowledge, technology, products and services along the biotech innovation process;
- **Cross-cluster cross-fertilisation via European Cluster Strategic Partnerships (ESCP) and other EU and non-EU instruments** – will be based on cross-sectoral focus based on capacity-building, facilitation of learning exchanges, mobilisation of knowledge flows, promotion of digital and circular innovations and international expansion.

The quadruple helix approach has been used in this mapping due to special emphasis put on existing associative mechanisms (cooperatives, clusters, networks) that gather – among others - primary producers, innovation brokers and other relevant stakeholders from private, academic, and non-governmental sectors.

Cross-cluster cross-fertilisation will be leveraged by connections and links between ESCP, H2020 INNOSUP projects and other BBI JU initiatives.



In terms of actors, the following stakeholders involved in the bio-based industries and clusters have been identified and gathered in the table.

Type	Description and relevance for UNLOCK project
Network organizations, clusters and digital innovation hubs	
Network organizations and clusters	Network organizations and clusters interconnect industrial players active in a specific industrial ecosystem, covering critical value chains in their or across ecosystems. Can be defined as single focal point through whom discussion, decision-making and growth opportunities are channelled. Clusters act as facilitators between regional authorities and regional SME and are providing an opportunity for SMEs to better access innovation sources. Clusters help UNLOCK project building upon and connecting regional strengths and smart specialisation priorities; creating innovation and investment opportunities through cross-sectoral collaboration.
Digital Innovation Hubs (DIH)	Digital Innovation Hubs (DIH) are one-stop-shops that help companies to become more competitive with regard to their business/production processes, products or services using digital technologies. Based upon technology infrastructure, they provide access to the latest knowledge, expertise and technology to support their customers with piloting, testing and experimenting with innovations.
Industry stakeholders from traditional and high-tech industries	
Small and medium enterprises	Crucial engines for growth and job creation, contributing to expanding the value creation along value chains, enabling more and better matching of innovation solutions and challenges.
Large companies	Large companies are large enterprises with +250 employees and annual turnover from EUR 50 000 000 and more. Their engagement is crucial from their capacity to drive change at wider level.

Startups and entrepreneurs	Start-ups in field of bio-based industries, Industry 4.0 and digital solutions are important to speed up and catalyze the development of innovations and accelerate twin – green and digital – transition.
Academia, research and innovation and educational organizations	
Technology centres, R&D and scientific parks	Knowledge and technology generators support SME innovation and start-up activities by offering high quality space, shared facilities to test and experiment with technologies, notably Key Enabling Technologies (KETs), combined with advisory technology support services that add value. Specialised technology centres are key for scaling up innovation and growth in specific strategic areas.
Knowledge and educational institutions	Knowledge and educational institutions are important from skills and capacity-building point of view, as well as facilitating change and green transformation.
Investors, acceleration programs and incubators	Providing financing, specialist trainings, mentorships and coaching. Important in terms of financing, new skills and competences needed in bio-based industries development.
Other innovation ecosystem actors	Other innovation ecosystem actors that contribute to bio-based industry development and mobilizing linkages across regions and Europe
Policy makers	
Regional, national and European authorities and policy makers	Responsible for shaping regional, national and European policies. Encouraged to collaborate within Smart Specialisation Platform for Industrial Modernisation (S3P-Industry) to support EU regions committed to generate a pipeline of industrial investment projects following a bottom-up approach implemented through interregional cooperation, cluster participation and industry involvement.

1.3. Data collection

Primary and secondary stakeholders have been collected by analysing the bioeconomy, agri-food, technology and related areas.

Tools that have been used to find the most relevant actors in the sector are specified below.

Acronym	Basic information
ECCP	<p>European Cluster Collaboration Platform www.clustercollaboration.eu</p> <p>The European Cluster Collaboration Platform (ECCP) is an initiative of the European Commission funded by the EU programme for the Competitiveness of Enterprises and SMEs (COSME) that encourages the partnering of clusters.</p>
CORDIS	<p>CORDIS www.cordis.europa.eu</p> <p>CORDIS is a platform that provides information on all EU-supported R&D activities, including programs (H2020, FP7 and older), projects, results, publications</p>
COSME Data Hub	<p>COSME data hub https://cosme.easme-web.eu</p> <p>COSME data hub is a platform that contains information about projects financed under European Union's COSME Programme.</p>
H2020 INNOSUP Data Hub	<p>H2020 INNOSUP</p> <p>H2020 INNOSUP data hub is a platform that contains information about projects financed under European Union's Horizon 2020 Programme.</p>



BBI JU Data Hub	<p>BBI JU https://bbi.easme-web.eu/</p> <p>The data hub is a platform that contains information about projects financed under European Union's Bio-Based Industries Joint Undertaking.</p>
Partners networks	<p>The UNLOCK consortium members were asked to propose and include the stakeholders they considered relevant for the project. This contribution has been especially valuable in terms of their concrete needs and interests.</p>

1.4 Stakeholders engagement

Stakeholder engagement will be set up as a continuous process during the whole implementation of UNLOCK project and not strictly limited to the very initial phase. To ensure its constant expansion, four interconnected axes have been selected:

1. **Flexibility, learning and trust building** – referred to the approach of continuous engagement of new identified actors and new initiatives that may appear and bring value to UNLOCK project and support partners in project execution;
2. **Holistic and strategic thinking** – taking into account cross-sectoral and integrated approach needed to boost feather-based industries, holistic and strategic thinking will be deployed via engaging participants representing a wide range of sectors connected to feather bioeconomy;
3. **Cross-fertilization** - will be related to interconnecting projects and partners from other partnerships currently implemented (ongoing), as well as learning and building upon recently closed projects relevant for UNLOCK implementation.
4. **Time planning** – related to the planning process and time needed to engage stakeholders from different countries and sectors, present the UNLOCK project and explain the benefits of engaging in its activities.





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5. **Easy onboarding** – linked to the approach of creating simple and easy-to-understand procedures and templates to reduce briefing time and facilitate collaboration within UNLOCK project.

This way, UNLOCK's stakeholder engagement will be based on establishing trust-based relationships with different groups that may be related to the project at different levels. Throughout the project, the process of creating relationships with different stakeholders - and ultimately building a community around the project - will take place both online and offline.

To achieve this, there are several different stages:

1. First year (M1-M12) will be focused on establishing the project's communication channels (web and social networks) and starting to build the UNLOCK brand. This phase will be divided into two subphases: the first one (M1-M6) will include initial stakeholders and project mappings and preparation of materials (brochure, rollup, videos) for communication. The second one (M7-M12) will be focused on active relationship building and engagement of identified stakeholders in project activities.
2. The second year (M13-M25) will be focused on intensification of the project and its activities. Moreover, but depending on the COVID situation, it is envisaged that attendance at events will increase with their corresponding networking that will support to build the offline community. First dissemination of results will take place and communication activities will be continued.
3. The fourth year (M26-M33) will be based on preparing the ground for the deployment of new regional feather-based clusters. Stakeholders will be aware of the project and will have received more information about what actions are being carried out. Therefore, their interest in UNLOCK will increase and may be more willing to collaborate or participate in the project initiatives.
4. Last year and a half (M34-M48) will be focused on launching feather-based bioeconomy clusters and the Thematic Platform will be designed and developed to multiply cooperation opportunities at Pan-European level.





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1.5 Methods to engage with stakeholder groups

Different methods will be used to engage with stakeholder groups via online and offline tools.

a) Networking and orchestration

International networking will be an important tool and activity to engage with the stakeholders. It will be done via different ways, including participation in brokerage events, projects meetings, webinars, conferences and other activities where UNLOCK stakeholders will be actively involved. Additionally, hybrid and online networking tools will be used to ensure orchestration of collaboration between different groups of stakeholders.

b) UNLOCK website

On the UNLOCK website a contact form with a set of basic questions where stakeholders can register to indicate their interest in the project and join the UNLOCK cluster forum will be created. All UNLOCK partners will invite contacts in their network to register via this link. This activity will promote the engagement and level of direct acceptance of the project technologies by stakeholders and will contribute to identifying and resolving barriers to implementation along the supply chain.

The forum will have the following objectives:

- Facilitate continuous communication and feedback channels between the project and the cluster and between cluster participants on project results as well as to barrier analysis and strategy formulation.
- Facilitate knowledge exchange between cluster members as well as with external organisations and experts
- Enable the co-design of value chains with key stakeholders

The online forum will be active throughout the duration and after the end of the project.

c) UNLOCK social media

Social media will serve as one of the channels to contact potential stakeholders. UNLOCK project will follow the identified projects and stakeholders and establish first contacts via Twitter and LinkedIn. Next step will consist of contacting them via messages / mails to establish formal contacts and to share information about the UNLOCK activities with the invitation to engage in the project. Where deemed of





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interest to both parties, call will be organized to discuss more in depth collaboration: opportunities to co-present at events; engage with the UNLOCK replication activities, feature services or results.

d) Project synergies, clusters and cross-fertilization

Taking into account the holistic and integrated approach of UNLOCK project, synergies at individual, organizational and project level will be created. This will be done with special focus on ongoing projects funded under European Union's COSME Programme, Horizon 2020 and Horizon Europe, BBI JU, H2020 INNOSUP and other relevant initiatives identified in the project mapping.

e) Technological synergies

Different relevant technologies will be identified by consulting with the technological project partners and a search strategy will be made. Special focus will be based on research institutions and startups, especially those representing high-tech, deep-tech and logistic solutions for agro and bio-based industries.

1.6 Stakeholders map

The initial stakeholders map has been created with a focus on relevant stakeholders from UNLOCK partners countries, as well as connected organizations via projects, programmes and initiatives' links.

Stakeholders mapping has been categorized according the following division:

- 1.1. **Network organizations, clusters and digital innovation hubs** - will be invited to support UNLOCK project and its partners in reaching end-users of new keratin-based products, facilitating access to the latest knowledge, expertise and technology, connecting with policy makers and in collaborating within new feather-based regional clusters.
- 1.2. **Academia, research and innovation and educational organizations** - will be invited to support UNLOCK project and its partners in mobilising scientific and innovation linkages across regions and Europe, facilitating information about the latest knowledge and technology and collaborating in cluster forum, among other activities.
- 1.3. **Industry stakeholders from traditional and high-tech industries** - Industry stakeholders from traditional industries are referred to companies from agri-food and connected sectors as potential end-users of new keratin-based products.



High-tech/deep-tech providers, startups and entrepreneurs will be invited to collaborate within cluster forum and/or creation of feather-based clusters.

- 1.4. Policy makers** - regional, national and European authorities and policy makers will be invited to engage with UNLOCK project in terms of their participation and cooperation within a new Thematic Platform that will be created under S3P-Agri-Food Platform.

and has been gathered in the table below.

Network organizations, clusters and digital innovation hubs	
Name	Description
IAR French bioeconomy cluster www.iar-pole.com	IAR is the French Bioeconomy cluster. Originally founded in 2005 by farmers cooperatives, it currently brings together more than 400 members from across the entire bio-based value chain, from upstream agricultural inputs to the marketing of finished products.
AgriSud Ouest Innovation www.agrisudouest.com France	AgriSud Ouest Innovation is one of largest innovation cluster for the agri-food industry in France that brings together more than 400 private and public members active in the Agriculture, Food and Bioeconomy sectors in South-Western France: the Occitanie and Nouvelle-Aquitaine regions.
Vegepolys www.vegepolys-valley.eu France	Vegepolys is a competitiveness cluster gathering together +500 firms, research and training centres in the plant field active in the entire plant value chain: upstream, plant production and processing/distribution.
VALORIAL www.valorial.com France	Valorial is a non-profit Agri-food cluster organisation labelled 'pole de compétitivité' by the French government and located in the largest agri-food European area: Bretagne Pays de la Loire and Normandie. It gathers +360 members and focuses on food quality & safety, manufacturing, processing & preservation technologies, food, nutrition & health, agricultural and agri-food marketing, and functional ingredients.
Flanders' FOOD (FF)	Flanders' FOOD (FF) is a cluster organisation, awarded with the European Cluster Excellence



www.flandersfood.com Belgium	Initiative Gold label, and the spearhead cluster for the agri- food industry in Flanders.
Fundación Corporación Tecnológica de Andalucía www.corporaciontecnologica.com Spain	Fundación Corporación Tecnológica de Andalucía (CTA) is a cross-sectoral cluster and regional public-private partnership (PPP) offering funding, consultancy, networking and positioning services.
Asociación Clúster FOOD+i www.clusterfoodmasi.es Spain	Cluster FOOD+i association is a non-profit organization that manages the food industry cluster called “Cluster FOOD+i” in the Ebro Valley region, NE Spain that is formed by more than 250 food companies.
Associazione Agroalimentare Clust-ER www.agrifood.clust-er.it Italy	Clust-ER Agroalimentare (Clust-ER Agrifood) is a non-profit association of currently 79 public and private organisations that aims to strengthen the innovation system in the agrifood sector in Emilia-Romagna.
Food & Bio Cluster Denmark (FBCD) www.foodbiocluster.dk Denmark	Food & Bio Cluster Denmark (FBCD) is a non-profit cluster, science park, incubator and project organisation with nationwide coverage and headquarters located in the Central Denmark Region. It is a leading European cluster within the entire food and bioeconomy value chain, running the secretariat for the Innovation Network for Bioresources – one of the largest of its kind in the world, and the Danish Food Innovation Network on behalf of the Danish Ministry of Education and Research. FBCD is a full member of the Biobased Industries Consortium (BIC).
Food Valley NL www.foodvalley.nl The Netherlands	Foodvalley NL is a non-profit agrifood innovation cluster based in Wageningen, the Netherlands, founded in 2004 and gathering a network of over 215 companies acts as catalyst for transition and driver of the sustainable food system.
Cluster Industrielle Biotechnologie (CLIB)	Cluster Industrielle Biotechnologie 2021 e.V (CLIB) is an international open innovation cluster for bioeconomy with a focus on industrial



www.clib-cluster.de Germany	biotechnology that gathers approximately 100 cluster members. Members are large (multinational) companies, SMEs, universities, academic institutes as well as other stakeholders active in the bioeconomy.
Circular Biobased Delta (CBBD) www.biobaseddelta.nl The Netherlands	Circular Biobased Delta is the cluster organisation for Southwest Netherlands for the development of the biobased economy. It is focused on facilitating collaboration technologically advanced farmers, of agro & food companies, large chemical players, of innovative SMEs, renowned knowledge institutions, educational institutions, pilot and demonstration plants, and governments.
Bioeconomy Cluster (BEC) www.bioeconomy.sk Slovakia	Bioeconomy Cluster (BEC) creates an innovation ecosystem for the knowledge and technology transfer between research and agri-food industry (SMEs) including relevant policies through mutual cooperation. BEC was established in 2015 as a result of bottom-up networking pressure of agri-food and other bio-based stakeholders in Slovakia.
Business Upper Austria - Food Cluster https://www.bizup.at/ Austria	Food cluster and cross-sectoral cluster network owned by regional government is focused on enhancing innovation and internationalization of business and industry through cooperation and broad support within technology and know-how transfer, research and innovation funding schemes.
Secpho www.secpho.com Spain	Secpho is a Digital Innovation Hub and cluster that brings together more than 180 organisations that promote technological innovation through deep tech in all sectors. It specializes in photonics technologies, artificial intelligence, biotechnologies, blockchain, advanced materials, microelectronics, robotic and drones, among others.
OnTech Innovation (OnGranada) www.ongranada.com	Digital Innovation Hub and ICT Cluster is the largest digital economy business organization and the largest technological cluster in Andalusia gathering +700 members.



Spain	
Latvian IT Cluster www.itbaltic.com Latvia	Latvian Information Technology is a Digital Innovation Hub and cluster interconnecting IT community with a strong focus on internationalization, cross-sectoral collaboration and digitalization. Core DIH focus is on digital transformation in agrifood, production and healthcare industries, artificial intelligence and advanced digital skills.
AERTIC www.aertic.es Spain	Agrupación Empresarial Innovadora del sector TIC de La Rioja (AERTIC) is a Digital Innovation Hub and cluster that gathers +90 members and is specialized in the dynamization, management, presentation and coordination of R+D+i projects both own and for partner companies.
Accelerating Photonics innovation for SME's (ACTPHAST 4.0) www.actphast.eu	One-stop-shop solution for supporting photonics innovation providing photonics and non-photonics companies and researchers with access to a wide range of existing cutting edge photonics technology platforms from Europe's top research centre.
AGORIA https://www.agoria.be/ Belgium	Agoria is Belgium's largest employers' organization and trade association.
Made Different Digital Wallonia https://www.digitalwallonia.be/fr Belgium	The objective of Made Different Digital Wallonia is to provide the support needed to companies to transform their activities following the principles of industry 4.0, as promoted by the Region.
3BI http://www.3bi-intercluster.org/ European	3BI is a strategic European partnership that builds on the complementary strengths of five regional innovation clusters specialized in bioeconomy clusters and located in France, Germany, the Netherlands and the UK.



<p>Tech Tour www.techtour.com Belgium</p>	<p>Tech Tour, is the largest investor-oriented communities in Europe connecting entrepreneurs, investors and corporate partners from across the world. Over 2000 high-tech applied companies and 750 investors take part in the 25 leading tech events held each year by Tech Tour.</p>
<p>Agri-food Cooperatives www.agro-alimentarias.coop Spain</p>	<p>Agri-food Cooperatives Spain is the organization that represents and defends the economic and social interests of the Spanish agri-food cooperative movement. It is made up of 16 Federations and Regional Unions of Agricultural Cooperatives plus one second degree cooperative (Agrocantabria) which provide support and services to the agri-food cooperatives in their respective Autonomous Communities.</p>
<p>Lithuanian Innovation Centre (LIC) www.lic.lt Lithuania</p>	<p>The Public Institution Lithuanian Innovation Centre (LIC) is a public innovation support organization in Lithuania, capable of consolidating the interests of business, science, politics and society by increasing the international competitiveness of the Lithuanian economy. It is focused on research and innovations, internationalization, promotion, development and marketing of new products and integrating the potential of Lithuanian innovation support entities into international value chains.</p>
<p>Biotech Santé Bretagne (BSB) /www.biotech-sante-bretagne.fr France</p>	<p>Biotech Santé Bretagne (BSB) is a not-for-profit association and regional technology innovation centre devoted to biotechnology and healthcare innovations in Brittany (Bretagne - France). Funded by public authorities (Ministry of research, regional and local governments), and membership fees, BSB runs and coordinates Biotechnology and Health regional sectors. It is the reference centre for innovation in eco-industry, agro-industry, food and cosmetic sector, pharmaceutical industry/health biotech, medical technologies, e-health.</p>
<p>Academia, research and innovation and educational organizations</p>	



Name	Description
CTIC-CITA / AIDISA www.ctic-cita.es Spain	Asociación Para La I+D+I Del Sector Agroalimentario (AIDISA) is a non-profit association composed of agro-food industrial members. AIDISA manages Ctic Cita, a technological center devoted to attend the research and technical needs required in the agri-food industry.
RISE www.ri.se Sweden	As world-class research center specialized in digital transformation and circular economy, RISE's mission is to work for sustainable growth in Sweden by strengthening the competitiveness and capacity for renewal of Swedish industry,
Bio Base Europe Pilot Plant (BBEPP) www.bbeu.org/pilotplant/ Belgium	Bio Base Europe Pilot Plant is an independent, state-of-the-art facility that operates from a laboratory level to a multi-ton scale. Bio Base Europe Pilot Plant is a service provider for process development, scale-up and custom manufacturing of biobased products and processes.
Wroclaw University of Environmental and Life Sciences (UPWR) www.upwr.edu.pl Poland	Wroclaw University of Environmental and Life Sciences (UPWR) is one of the best specialized Universities in Poland and the only centre for research of environment, agribusiness, and innovative technologies in the food sector oriented towards health and the quality of life located in the lower Silesian region.
Zachodniopomorski Uniwersytet Technologiczny w Szczecinie (ZUT) www.zut.edu.pl Poland	ZUT is one of the most important academic institutions for higher education and innovation in Poland. It has an important array of infrastructure and equipment related freshwater aquaculture, fish processing and evaluation of meat and by-products quality and safety.
Universidad de Navarra (UNAV) www.unav.es Spain	Universidad de Navarra (UNAV) is a private non-profit Spanish institution with 1,150 academics and more than 13,000 students (27% international) in its different campuses: Pamplona, San Sebastian, Madrid and Barcelona.
TECNALIA RESEARCH	Tecnalia is a private, independent and non-profit research organisation committed to



& INNOVATION www.tecnalia.com Spain	generating major impacts in economic terms by means of innovation and technological development. It covers wide range of sectors, including Energy and Environment, Industry and Transport, Sustainable Construction, Health, ICT and Technological Services.
Aalborg University - CELOG www.aau.dk Denmark	CELOG is was founded in 2010 and its research is focused on operations and supply chain planning, specifically through demand and supply coordination, data and information sharing, and information technology-enabled processes, as well as use and integration of systems, mainly Planning and Control (ERP, APS, VMI), Transport and Warehouse Management Systems and Business Intelligence & Analytics.
Wageningen University and Research (WUR) www.wur.nl The Netherlands	Wageningen University and Research (WUR) is the main Dutch research, innovation and teaching organisation in the domain of healthy food and living conditions. WUR has about 5000 employees and 12,500 students.
Aarhus University www.au.dk Denmark	Aarhus University is the second biggest university in Denmark with strong international reputation across the entire research spectrum, including research and innovation on entire value chain across production, processing and consumption.
Danish Technological Institute -DTI www.dti.dk Denmark	Danish Technological Institute (DTI) is the largest technological service provider in Denmark and one of the biggest in northern Europe. Founded 110 years ago, the Institute's core business lies in providing testing, certification, information, training and consultancy including research services to the industry.
Sustainable Innovations Europe (SIE) www.sustainableinnovations.eu	Sustainable Innovations Europe (SIE) is a consulting company specialized in supporting the mainstreaming of disruptive innovations, especially in field of circular economy, bio-



Spain	based industries, manufacturing industries and energy storage.
SPI https://spi.pt/ Portugal	SPI is a private consulting company created in 1996 as an active interface of national and international networks connected to the SME and innovation sectors.
Q-PLAN www.qplan-intl.gr Greece	Q-PLAN is an innovation and management consultancy focused on business and innovation support services to entrepreneurs, start-ups and SMEs and design, management and implementation of European innovation support and research projects.
PNO Innovation www.pnoconsultants.com Belgium	PNO Innovation is a part of the PNO Group and is specialised in Innovation Management and funding, providing support services to private and public organisations in Innovation processes, Technology Transfer, IT solutions and funding for research, development and innovation.
Industry stakeholders from traditional and high-tech industries	
Name	Description
KEDEON https://kedeon.com/ Latvia	Supply chain & facility real-time monitoring. Complete tracking & monitoring solutions for large and small businesses.
Machine Can See https://www.machinecansee.com/ Republic of Serbia	A deep technology company focusing on computer vision (AI).
HEDYLA https://hedyla.com/ Spain	Optimize logistics with Artificial Intelligence and Big Data analytics.
Precision Navigation Systems https://elt-s.com/	Precise GPS positioning for robots, drones and IoT devices.



Italy	
Intelligent Systems www.intelligentsystems.lv	Full cycle telemetry solutions development company.
Latvia	
Catchsmart www.catchsmart.com	A system for efficient resource management, cost reduction, productivity increase, designed in accordance with the principles of LEAN management.
Latvia	
Sensefinity https://www.sensefinity.com/	Smart Logistics, Sensoring, Location and Blockchain.
Latvia	
GENOMTEC www.genomtec.com	Clinical diagnostics based on a unique mobile genetic diagnostics platform utilizing a patented contactless heating and detection system/
Poland	
Squad Robotics www.squad-robotics.com/	A simple-to-use software AI product for orchestrating manual and robot cleaning mac
Latvia	
SummarizeBot www.summarizebot.com/	Unique artificial intelligence algorithms to summarize any kind of information
Latvia	
LightSpace Technologies https://www.lightspace3d.com/	Optically-deep US-patented 3D volumetric display technology for medical imaging, automotive heads-up displays, 3D radar displays and AR applications.
Latvia	
Air Board www.airboard.co/	Industrial heavy lift drones for agricultural applications.
Latvia	



Innovation Engineering www.innovationengineering.eu Italy	Innovation Engineering is an Italian private company focused on the design and development of advanced IT solutions to search, access and manage relevant knowledge within enterprises, on the web, and in structured databases, with a specific focus on the technology innovation domain.
SC Sviluppo chimica www.sviluppochimica.federchimica.it Italy	SC Sviluppo chimica S.p.A. is a service company totally owned by Federchimica, the Italian Federation of the Chemical Industry.
Policy makers	
European Commission - Joint Research Centre (JRC)	The Joint Research Centre is the Commission's science and knowledge service. The JRC employs scientists to carry out research in order to provide independent scientific advice and support to EU policy
S3 Platform - Agri-food Platform	The S3P-Agri-Food aims to accelerate the development of joint investment projects in the EU in agri-food.
S3 Agri-food partnership: High Tech Farming https://s3platform.jrc.ec.europa.eu/high-tech-farming	The purpose of the partnership is to facilitate interregional and cross-border cooperation and projects, thus accelerating the uptake of Sustainable Precision Farming in European agricultural systems.
S3 Agri-food partnership: Smart Sensors 4 Agrifood https://s3platform.jrc.ec.europa.eu/smart-sensors-4-agrifood	The partnership aims at setting up a platform between agri-food electronic/IT cluster organisations and other stakeholders, to lower the barriers for agri-food companies to access and implement the newest smart electronic systems and to enable the IoT transition of the agri-food industry.
S3 Agri-food partnership: Traceability & Big Data Link	The partnership aims at encouraging, motivating and facilitating the incorporation of necessary digital technologies and data application in Agri-food sector value chains.
S3 Platform - Industrial Modernisation Platform Link	The S3P-Industry supports EU regions committed to generate a pipeline of interregional industrial investment projects





D8.3 Stakeholder and related projects mapping

<p>S3 Industrial modernization partnership: SME integration to Industry 4.0</p> <p>Link</p>	<p>The objective of this partnership is to involve SMEs to the Industry 4.0 paradigm by increasing their absorption of specialised digital services.</p>
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The identified initial stakeholders will be invited to actively participate in the project implementation and get involved in co-creation processes, including online matchmakings and cluster forum.



2. Mapping of related projects and synergies

2.1. Objectives

Mapping of related projects and synergies have been performed with the objective of identifying bioeconomy projects and initiatives related to UNLOCK project that can contribute for the development of feather bioeconomy for keratin-based agricultural products.

2.2. Methodology

In order to map relevant bioeconomy projects and initiatives, several EU support schemes were identified and analyzed.

The starting point was the analysis of UNLOCK related projects identified at the proposal writing stage with special focus on Horizon 2020 project KARMA 2020. Next EU-funded projects implemented by project partners have been analyzed via SEDIA platform to search potential interproject links. Later, ongoing EU-funded projects relevant for UNLOCK implementation from H2020, COSME and other schemes have been identified and investigating in search for synergies at project and partner's level. Following, recently closed EU-funded projects were considered from learning point of views and access to already interconnected ecosystems. Finally, other projects, networks and initiatives at European and international level relevant for UNLOCK's implementation have been found to enhance knowledge and information exchange, mutual learning, and discovery of new technological, cooperation and business opportunities.

In UNLOCK project, synergies and cross-fertilisation will be created at different levels:

- Project level: by identifying and establishing links between complementary projects and instruments financed from EU and non-EU fundings, implemented during the execution of the UNLOCK project;
- Partners level: by identifying organizations interconnected via different EU projects and involved in the development of bio-based industries;





D8.3 Stakeholder and related projects mapping

- Via technologies: by providing UNLOCK's partners information about available technologies, performing technology scouting;
- Via clusters: facilitating new interactions with sectoral and cross-sectoral organizations that might add value to the creation of new feather-based clusters that will be created at the end of the UNLOCK project.

Several EU-funded initiatives lay the ground for cross-sectoral synergies. The preliminary mapping of projects was elaborated considering the following funding schemes:

- A. COSME Programme – with special attention on European Strategic Cluster Partnerships:
 - European Strategic Cluster Partnership for Smart Investments (ESCP S3)
 - European Strategic Cluster Partnership for Cluster Excellence (ESCP 4x)
 - European Strategic Cluster Partnership Clusters Going International (ESCP 4i)
- B. Horizon 2020 Programme – with special attention on:
 - H2020 INNOSUP projects
 - BBI JU projects
- C. European Institute of Technology (EIT)

Special focus will be put on currently available programmes and projects, as well as new ones that will be identified on ongoing basis.

2.3. Data collection

In order to map related projects to UNLOCK, analysis has been performed using the following tools to find the most relevant projects and are included in the table below.

Acronym	Basic information
CORDIS	CORDIS www.cordis.europa.eu



	CORDIS is a platform that provides information on all EU-supported R&D activities, including programs (H2020, FP7 and older), projects, results, publications.
BBI JU	<p>BBI JU</p> <p>https://bbi.easme-web.eu/</p> <p>The platform contains information about projects financed under Bio-Based Industries Joint Undertakings.</p>
COSME Data Hub	<p>COSME data hub</p> <p>https://cosme.easme-web.eu</p> <p>COSME data hub is a platform that contains information about projects financed under European Union's COSME Programme.</p>
H2020 INNOSUP Data Hub	<p>H2020 INNOSUP</p> <p>https://innosup.easme-web.eu/</p> <p>H2020 INNOSUP data hub is a platform that contains information about projects financed under European Union's COSME Programme</p>
ECCP	<p>European Cluster Collaboration Platform</p> <p>www.clustercollaboration.eu</p> <p>The European Cluster Collaboration Platform (ECCP) is an initiative of the European Commission funded by the EU programme for the Competitiveness of Enterprises and SMEs (COSME) that encourages the partnering of clusters.</p>
Partners networks	The UNLOCK consortium members were asked to propose and include the stakeholders they considered relevant for the project. This contribution has been especially valuable in terms of their



	concrete needs and interests.
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2.4. Methods to engage with projects

Different methods will be used to engage with synergic projects via online and offline tools.

a) Social media

First step will be made by following the selected projects via social media channels, such as twitter and LinkedIn.

b) Joint promotion, communication and dissemination

Joint promotion and communication will be focused on creating and raising awareness of bioeconomy bio-based innovations of the projects to a wide group of stakeholders, previous projects' partners and networks, who may support UNLOCK activities. The method will include, among others, implementation of communication and dissemination activities, best practices, project results, testimonial and lessons learned. Special focus will be also put on agri-food companies as potential clients and end-user of UNLOCK products.

c) Joint implementation of activities

Joint implementation of events and activities will be focused on maximizing impacts, building UNLOCK's network and accelerating the future deployment of bio-based products. Moreover, it will be focused on boosting networks of bioeconomy partners and hubs to interconnect agri-food SMEs, startups, RTO and public administration to explore joint cooperation, business and innovation opportunities.

d) Cooperation agreement / MoU / Synergy declarations

Cooperation / synergy agreement will be a tool to formalize the interproject cooperation, by formally confirming the will of working together at project level.

a) Design and preparation of new project concepts and/or proposals



In order to stimulate new projects and maximize impacts, UNLOCK project partners will also work on the design and preparation of new project concepts and/or proposals. Do to so, funding radar to monitor financing opportunities (including Horizon Europe Programme) will be set to inform UNLOCK partners and stakeholders about new opportunities for feather-based development.

2.5 Projects map

The following section includes the identified projects and its links to UNLOCK activities.

UNLOCK related projects identified at the proposal writing stage

UNLOCK project is built on successful previous research and innovation work implemented within several projects performed by project partners.

H2020 - KaRMA2020

Name od the project	Description
KaRMA2020 Industrial Feather Waste Valorisation for Sustainable KeRatin based MAterials.	The overall objective of KaRMA2020 is the industrial exploitation of underutilized waste - poultry feathers- to obtain added value raw materials for the chemical sector: keratin, bioplastics, flame retardant coatings, non-woven and thermoset biobased resins. This will be accomplished through either: i) innovative and sustainable approaches (already patented by some of KaRMA2020 partners), or ii) conventional and economic techniques.
Duration	Partners
Start date: 1/01/2017 End date: 31/12/ 2019	<ul style="list-style-type: none"> ▪ FUNDACION CIDETEC (Coordinator) - Spain ▪ GRUPO SADA P A SA (Partner) - Spain ▪ TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (Partner) - Finland ▪ RISE RESEARCH INSTITUTES OF SWEDEN AB (Partner) - Sweden ▪ CENTRE SCIENTIFIQUE & TECHNIQUE DEL'INDUSTRIE TEXTILE BELGE ASBL (Partner)- Belgium



	<ul style="list-style-type: none"> ▪ AIMPLAS - ASOCIACION DE INVESTIGACION DE MATERIALES PLASTICOS Y CONEXAS (Partner) - Spain ▪ SIEC BADAWCZA LUKASIEWICZ - INSTYTUT BIOPOLIMEROW I WLOKIEN CHEMICZNYCH (Partner) - Poland ▪ SIOEN INDUSTRIES NV (Partner) - Belgium ▪ CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS (Partner) - France ▪ AVANTIUM CHEMICALS BV (Partner) – The Netherlands ▪ FKUR KUNSTSTOFF GMBH (Partner) - Germany ▪ FERTIBERIA SA (Partner) - Spain ▪ VERTECH GROUP (Partner) - France ▪ CIAOTECH Srl (Partner) - Italy ▪ DAREN LABORATORIES & SCIENTIFIC CONSULTANTS LTD (Partner) - Israel ▪ RISE PROCESSUM A (Partner) - Sweden ▪ PNO INNOVATION SL (Partner) - Spain
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Other connected projects

Project	Partner's link	Outputs
KaRMA2020 H2020 SPIRE	CID (coordinator), Ł- IBWCh, PROCESSUM, AIM	Know-how on steam explosion of feathers; know-how on feather/thermoplastic biopolymer compounding and preliminary results on biodegradability properties.
Feather2Feed Nordic Innovation Fund	BIOEXTRAX	Developing and upscaling a technology to convert feathers into hydrolysed protein to be used as feed.
PHAom Vinnova	BIOEXTRAX	Biobased and biodegradable polymer foam from bioplastics and feathers.
ECLIPSE FP7	CID (coordinator)	Knowledge on strategies for compounding bio-composites based on PLA from renewable sources for packaging and agricultural applications.
ekoPióro Polish project co-sponsored by the European Union	Ł- IBWCh (coordinator)	Knowledge on management of hardly biodegradable waste in the form of feathers; new assortment of nonwoven



		fabrics on the target market and two pilot installations will be developed.
Usable H2020	BIO-MI	Know how in compounding, extrusion and manufacturing of PHA based products.
Biontop H2020	AIM (CO), BIO-MI, OWS	Development and production of PLA based polymers, co-polyesters and packaging. Biodegradable and compostable packaging and yarns.
NANOSOLUTIONS FP7	INKOA	Know-how on the development of Life Cycle Assessment for the evaluation of the environmental, economic and social impacts of emerging technologies.
INTERNEXUS+ Mazovia Regional Government	AgroBioCluster	RIS3 and entrepreneurial discovery process, co-creation, stakeholders mapping, building of international cluster networks.
BARBARA H2020-BBI	TECNO	Know-how on biopolymers for high added value products.
NEWPACK H2020-BBI	TECNO	Know-how on biodegradable film processing.
BIO4PRODUCS H2020	G!E	Communication strategy and materials.
BIORESCUE H2020	G!E	Policy Recommendations.
Business Review & Go Forward Strategy	F&M	Recommendations and strategic “go forward” options including corrective actions, refinancing and/or divestment strategies for future business growth.
SEALIVE H2020	OWS	New standards on biodegradation test methods and knowledge on biodegradation behaviour and environmental end-of-life options.
PaperChain H2020	PROCESSUM	Unlock the potential of a resource efficient model to demonstrate the potential of major non-hazardous waste streams as secondary raw material.
NextGenProteins H2020	PROCESSUM	Optimise the production of alternative proteins and verify their use in feed and food applications.





D8.3 Stakeholder and related projects mapping

Ongoing EU-funded projects relevant for UNLOCK implementation and synergy seeking

European Strategic Cluster Partnership for Cluster Excellence (ESCP 4x)

European Strategic Cluster Partnerships for Excellence (ESCP-4X) are cluster partnership selected under the last call for proposals of the European Cluster Excellence Programme (COS-CLUSTER-2018-03-02).

The 13 ESCP-4X partnerships gather 69 cluster organisations from 21 EU and COSME participating countries. They are focused on improving competences and strategies for better serving their members (in particular SMEs) , but also to implement the ClusterXchange pilot scheme – the possibility to match cluster members with peers from other clusters, to visit each other in order to learn and exchange on the spot, in a real cluster environment, and to take advantage of growth opportunities emerging from collaboration (e.g. uptake of advanced technologies, development of joint projects, follow-up of a matchmaking event, etc.).

The exchanges will be facilitated by ESCP-4X partners as they will accompany participants all along the process (matching, visiting and returning phases) as well as pay the financial contribution from the COSME programme to visiting organisations.

From 13 ESCP-4X partnerships, four have been selected for their connections to UNLOCK objectives and activities:

- ESCP-4X BLUES
- ESCP-4X SAFE SMART FOOD
- ESCP-4X CLAMTEX
- ESCP-4X EXTRAX

Its link to UNLOCK project is related to capacity building, potential participation of UNLOCK partners in international cluster exchanges and knowledge and technology transfer at cross-border and cross-sectoral level.

Additionally, in February 2022 next generation of European Strategic Cluster Partnerships for Excellence will start being an opportunity for UNLOCK partners and members to participate in ClusterXchange scheme mentioned above.



ESCP 4x - BLUES

Name of the project	Description
<p>BLUES</p> <p>Blue and Eco industries cluster exchange for industrial modernisation</p>	<p>Blue and Eco industries cluster exchange for industrial modernisation (BLUES) overall objective is to strengthen cluster excellence management and facilitate a European Strategic Cluster Partnership for Excellence between water clusters and KET clusters (Plasma, nanotechnology and ICT) to enhance the SME competitiveness and increase their international opportunities in the single market and beyond, by means of benchmarking, long-life learning, best practices transfer and exchanges. Thus, BLUES will boost the promotion of cluster management excellence towards the improvement of a comprehensive strategy and added-value SME support services.</p> <p>A nuclear part of the proposal will be the implementation of the ClusterXchange pilot scheme by organising 50 exchanges between Cluster SME, scale up organisations and clusters within the blue and eco-industries areas.</p>
Duration	Partners
<p>Start date:</p> <p>03/02/2020</p> <p>End date:</p> <p>02/02/2022</p>	<ul style="list-style-type: none"> • ASOCIACIÓN CLUSTER PARA EL USO EFICIENTE DEL AGUA-ZINNAE (Partner) - Spain • ASSOCIATION POLE MONDIAL DE COMPETITIVITE EAU (Partner) - France • BALTICNET PLASMATEC (Coordinator) - Germany • NANOPROGRESS Z.S. (Partner) - Czech Republic (the) • STOWARZYSZENIE ROZWOJU SPOLECZNO-GOSPODARCZEGO WIEDZA (Partner) - Poland



ESCP 4x – SAFE SMART FOOD

Name of the project	Description
SAFE SMART FOOD	The project aims to strengthen the collaboration between clusters and improve their management capacity to create the conditions of a favourable ecosystem in the agri-food sector to boost innovation, competitiveness and internationalization of SMEs and to offer to the cluster's SMEs an integrated program of services based on excellence. The project adopts a multi-stakeholder and multi-sectorial approach involving clusters from different sectors: agri-food and packaging as well other main stakeholders among and beyond the consortium based on the quadruple-helix perspective. Thanks to SAVE SMART FOOD project, clusters will analyze - in a comparative and cross-sectorial perspective - the needs of SME and stakeholders including end-consumers, not only to offer excellence and quality services to their SME's members but also to reshape their cluster' strategies to address the challenges that food and packaging sector is facing in Europe. This analysis will be concreted in the development of a common strategy for the next 5 years to work together to contribute to the creation of this favorable ecosystem for the growth and competitiveness of the sector. The aim of SAFE SMART FOOD is to reorient the growth of the European food sector towards the development of higher added value products, contributing to implement the European legislation and measures and creating the conditions of a favorable ecosystem in the food and packaging sector to boost innovation, competitiveness and internationalization of SMEs. Clusters have to be the drivers of this ecosystem.
Duration	Partners
Start date: 03/02/2020	<ul style="list-style-type: none"> • CLUSTER DEL PACKAGING (Coordinator) - Spain • CLUSTER FOODSERVICE DE CATALUNYA (Partner) - Spain • BUSINESS UPPER AUSTRIA - OO WIRTSCHAFTSAGENTUR GMBH (Partner) - Austria • LATVIJAS PARTIKAS UZNEMUMU FEDERACJA (Partner) – Latvia • LIETUVOS MAISTO EKSPORTUOTOJU ASOCIACIJA (LITMEA) (Partner) - Lithuania
End date: 02/10/2021	



ESCP 4x– CLAMTEX

Name of the project	Description
CLAMTEX Cluster management towards excellence in Advanced Manufacturing and Textile Industry	CLAMTEX main objective is to strengthen cluster management excellence of the participating European clusters to boost their specialized innovation eco-system by facilitating the cross-sectoral and cross-regional collaboration to facilitate the uptake of digitalization within and beyond the partnership with the implementation of ClusterXchange pilot scheme. CLAMTEX is an European Strategic Cluster Partnership composed of textile and advanced manufacturing clusters from 3 countries and 4 regions, with a joint strategy to facilitate the uptake of digitalization and the user-centered approaches, benefiting both advanced production suppliers and textile companies in a win-win approach. The main tasks implemented in CLAMTEX will follow Kaizen principles towards excellence and always-improving attitude using the Deming Cycle applied in cluster management. This will comprise several iterations of internal and external benchmarking, training in cluster management and in facilitating tools to foster excellent services to cluster's members. CLAMTEX will also implement the ClusterXchange to foster the start of cooperation toward growth with focus on cross-sectoral and cross-border learning to benefit from the Single Market. In total we expect that 2 staff from each cluster will participate in the capacity building, 50 participants in exchanges and a total of 635 SMEs will benefit from the revised cluster strategies that CLAMTEX will conduct.
Duration	Partners
Start date: 03/02/2020 End date: 02/02/2022	<ul style="list-style-type: none"> • ASOCIACIÓN DE EMPRESARIOS TEXTILES DE LA REGIÓN VALENCIANA (Coordinator) - Spain • AGRUPACIO D'EMPRESSES INNOVADORES TEXTILS (Partner) - Spain • CENTRO TECNOLÓGICO DAS INDUSTRIAS TEXTIL E DO VESTUÁRIO DE PORTU (Partner) - Portugal • POLE EMC2 (Partner) – France • PRODUTECH-ASSOCIACAO PARA AS TECNOLOGIAS DE PRODUCAO SUSTENTAVEL (Partner) - Portugal



ESCP 4x – EXTRATEX

Name of the project	Description
<p>EXTRATEX</p> <p>European TRANsport-Sustainability paradigm for industrial clusters EXcellence in cross-sector innovation</p>	<p>The partnership brings together clusters from textile, automotive, plastic and Safety and Security in industry. Thus, the partnership has the common objective to implement strategic partnerships and joint collaboration initiatives for a mutual transfer of knowledge, innovation capacities and its possibilities between these target sectors, through raising cluster excellence in the production and value chains of sustainable solutions, as well as the on-the-job-training for the staff and managers, experience sharing and market access and identification of partnerships.</p> <p>This set of goals will be achieved through the implementation of the following actions: Enhancing cluster managers' skills; Developing 6 individual clusters strategies and its roadmaps; Developing a comprehensive strategy for the cluster partnership; Organising joint collaboration activities: two learning events and study-visits, 3 interregional matchmaking events (C2C and B2B) , Supporting the implementation of the ClusterXchange pilot scheme; where 59 visits are planned, of which 30 are SMEs, and 17 are non-ESCP-4x members, from different sectors; and Dissemination and awareness raising activities.</p>
Duration	Partners
<p>Start date:</p> <p>03/02/2020</p> <p>End date:</p> <p>02/02/2022</p>	<ul style="list-style-type: none"> • ASOCIACIÓN DE EMPRESARIOS DEL COMERCIO E INDUSTRIA DEL METAL DE MADRID_(Partner) – Spain • CLUTEX – KLASTR TECHNICKE TEXTILIE (Partner) – Czech Republic (the) • EUROPEAN VIRTUAL INSTITUTE FOR INTEGRATED RISK MANAGEMENT EU VRI (Partner) – Germany • FUNDACIÓN PARA EL FOMENTO DEL SECTOR TEXTIL DE LA COMUNITAT VALE (Partner) – Spain • NEXT TECHNOLOGY TECNOTESSILE SOCIETA NAZIONALE DI RICERCA R L (Coordinator) – Ital • SLOVENSKY PLASTIKARSKY KLAŠTER (Partner) – Slovakia





D8.3 Stakeholder and related projects mapping

European Strategic Cluster Partnership Clusters Going International (ESCP 4i)

The European Cluster Partnerships for Going International (ESCP 4i) are focused on developing and implementing joint internationalisation strategies to support SME internationalisation towards third countries.

So far, three generations of ESCP 4i have been implemented to develop common actions (i.e. business missions, cooperation agreements, gateway services, export consortia, etc.) strengthening European SMEs access to specific third markets and initiating a long-term cooperation agenda with strategic partners in third countries.

From ESCP-4i partnerships, 10 have been selected for their connections to UNLOCK objectives and activities:

- ESCP-4i AUMENTA
- ESCP-4i FOOD PACK LAB 2.0
- ESCP-4i CONNECTEO
- ESCP-4i PRESTIGEOUS
- ESCP-4i PERCY
- ESCP-4i PIMAP PLUS
- ESCP-4i BRIDGE
- ESCP-4i SPACE 2 WAVES
- ESCP-4i BRIDGE
- ESCP-4i TEXGLOBAL

Their link to UNLOCK project is related to cluster partners engaged in ESCP 4i as potential facilitators of keratin-based market uptake within cluster networks, as well as potential engagement in co-creation activities and establishment of new feather-based cluster by the end of the project.



ESCP 4i - AUMENTA

Name of the project	Description
<p>AUMENTA</p> <p>Speeding up network internationalization of food, ICT Industry 4.0 clusters and their SMEs towards strategic third countries beyond Europe in field of emerging industries and Fast Moving Consumer Goods (FMCG 4.0)</p>	<p>AUMENTA is a novel and interdisciplinary project that takes European SMEs to the next level and boost their internationalization beyond Europe by intensifying cluster and business network collaboration, establishing 'European Strategic Cluster Partnership-Going International' (ESCP-4i) and implementing & testing joint internationalization strategy (Strand 2a). The project interconnects of five relevant and complementary partners from four countries (ES, PL, LT, LV) uniting high-technology clusters (ICT/ Industry 4.0) with traditional sectors (food) towards jointly and consciously selected third countries beyond Europe: * Morocco - as a strategic gate to North African/ South-Mediterranean (MEDA) markets; * Georgia - as a strategic gate to Caucasus & post-URSS markets; * Uruguay - as a strategic gate to Latin American markets to lead international cluster cooperation in field of emerging industries: Food 4.0., Industry 4.0 and FMCG 4.0.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>28/02/2022</p>	<ul style="list-style-type: none"> ▪ ASOCIACION CLUSTER GRANADA PLAZA TECNOLOGICA Y BIOTECNOLOGICA (Partner) - Spain ▪ FUNDACJA UNIMOS (Partner) - Poland ▪ LATVIJAS INFORMACIJAS TEHNOLOGIJU KLASTERIS (Coordinator) - Latvia ▪ LATVIJAS PARTIKAS UZNEMUMU FEDERACIJA (Partner) - Latvia ▪ LIETUVOS MAISTO EKSPORTUOTOJU ASOCIACIJA (LITMEA) (Partner) - Lithuania



ESCP 4i - FoodPackLab 2.0

Name of the project	Description
FoodPackLab 2.0 Deep Tech-Packaging Partnership for Food Innovation	<p>FoodPackLab 2.0 aims to at fostering cross-border and cross-sectorial collaboration of clusters and business networks in the strategic field of food security. It connects clusters from four different sectors (agriculture, food processing, packaging and deep tech) and 5 European countries (Belgium, Denmark, France, Italy and Spain) in order to support European SMEs to access new global value chains and ensure their position as global leaders of innovation in targeted industries.</p> <p>By fostering linkages between each targeted sector, the project boosts the development of all of them (traditional sectors become new value chain, disruptive technologies are tested and lead to the discovery of new, more advanced solutions), unlocking complementarities between existing economic activities.</p>
Duration	Partners
Start date: 01/09/2020 End date: 31/08/2022	<ul style="list-style-type: none"> • CLUSTER DEL PACKAGING (Partner) - Spain • CONSIGLIO NAZIONALE DELLE RICERCHE (Partner) - Italy • PACK4FOOD (Partner) - Belgium • SOUTHERN EUROPEAN CLUSTER IN PHOTONICS & OPTICS (Coordinator) - Spain • SYSTEM@TIC PARIS REGION (Partner) - France • VIFU - VIDENCENTER FOR FODEVAREUDVIKLING (Partner) – Denmark • VITAGORA POLE (Partner) - France



ESCP 4i – CONNECTEO

Name of the project	Description
<p>ConnectEO</p> <p>Connecting European Earth Observation to International Markets</p>	<p>One of the greatest technological tools that we have at our disposal to manage resources at a regional/national/continental/global scale towards addressing Sustainable development and environmental goals and objectives is Earth Observation.</p> <p>No other set of tools can provide imagery and data over global geographic scales and daily temporal scales needed by a range of stakeholders, including for informed policy, strategical natural-resource management, monitoring and enforcement and tactical decision support.</p> <p>Ensuring the uptake and use of these tools by key decision makers around the world is a fundamental step in ensuring effective management of our world's resources. It is with this underlying philosophy that the Connecting European Earth Observation to International Markets (ConnectEO) project begins.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • ASSOCIATION POLE MER BRETAGNE (Partner) - France • EUROPEAN ASSOCIATION OF REMOTE SENSING COMPANIES (Coordinator) – Belgium • FUNDACIÓN CORPORACIÓN TECNOLÓGICA DE ANDALUCIA (Partner) - Spain



ESCP 4i - PRESTIGIOUS

Name of the project	Description
<p>PRESTIGIOUS</p> <p>EuroPean stRatEgic cluSter parTnership to Go InternatiOnal for Uav Smes</p>	<p>UAVs are an emerging market (valued at USD 18.14 Billion in 2017, with a CAGR of 14%). It is led mainly by SMEs which are not structured well enough and lack the appropriate support to fully benefit from international opportunities.</p> <p>The objective of PRESTIGIOUS is to intensify cluster collaboration in Europe in the field of UAVs and to contribute to establish a European Strategic Cluster Partnership (ESCP) on UAVs based on a joint internationalisation strategy, in order to strengthen the competitiveness and sustainability of SMEs in Europe.</p> <p>PRESTIGIOUS will work closely with business networks and European initiatives to provide SMEs with dedicated and tailored support related to internationalisation.</p> <p>PRESTIGIOUS will target two of the most advanced market segments with strong growth potential for European SMEs: Inspection and Security, looking for each one at both VLOS (Visual Line of Sight) and BVLOS (Beyond Visual Line of Sight) applications.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • ASOCIACION DE EMPRESAS DEL SECTOR AEROESPACIAL DE ANDALUCIA HELI (Partner) - Spain • DRONES PARIS REGION (Partner) - France • NORMANDIE AEROSPACE (Coordinator) – France • SKYWIN WALLONIE ASBL (Partner) - Belgium



ESCP 4i - BRIDGE

Name of the project	Description
<p>BRIDGE</p> <p>Building Relations to go International for Data-Driven Growing Enterprises (Start-ups and SMEs)</p>	<p>Currently, there are many challenges that companies, and specially start-ups and Small and Medium Enterprises (SMEs), have to face if they want to succeed in the data-driven EU tech-industry and be able to approach new international markets, specially with solutions related to Artificial Intelligence (AI) and Blockchain (BC).</p> <p>Hence the BRIDGE project “Building Relations to go International for Data-Driven Growing Enterprises (start-ups and SMEs)”, proposed by 4 European clusters that have joined their forces for strengthening their internationalization approach and provide more professional services to their AI and BC start-ups and SMEs (+200).</p> <p>This proposal aims to establish a European Strategic Clusters Partnership (ESCP) to promote clusters' internationalisation support to companies by developing a joint international strategy aimed at helping start-ups and SMEs in their internationalisation process beyond Europe, and to intensify clusters and network collaboration across borders.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>30/04/2022</p>	<ul style="list-style-type: none"> • ASSOCIATIA PENTRU PROMOVAREA TEHNOLOGIEI ELECTRONICE (Partner) - Romania • BWCON GMBH (Partner) - Germany • FONDAZIONE TORINO WIRELESS (Coordinator) – Italy • FOUNDATION CLUSTER INFORMATION AND COMMUNICATION TECHNOLOGIES (Partner) - Bulgaria



ESCP 4i - PERCY

Name of the project	Description
<p>PERCY</p> <p>International Cluster Cooperation for Recycling of Polymers</p>	<p>Cooperation of 4 European clusters focused on recycling of materials and eco design in various industrial sectors.</p> <p>Advanced materials are popular in use but difficult to recycle. The consortium partners have come together to explore how an intensified cluster and business network collaboration across borders can meet this challenge and exploit the international business opportunities related to the topic.</p> <p>The consortium will meet the objective by development of a joint internationalization strategy towards countries outside Europe.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • ELASTOPOLE (Partner) - France • FONDEN PLAST CENTER DANMARK (Coordinator) - Denmark • SLOVENSKY PLASTIKARSKY KLASTER (Partner) - Slovakia • WIRTSCHAFTSFORDERUNG RAUM HEILBRONN GMBH (Partner) - Germany



ESCP 4i – SPACE 2 WAVES

Name of the project	Description
<p>Space2Waves</p> <p>Clusters in action for the internationalisation of European SMEs taking advantage of the cross-sectoral dimension of Earth observation for Blue Growth market</p>	<p>Space2Waves is the continuation of SpaceWave which has successfully developed an internationalization strategy to accelerate the Earth Observation (EO) technologies global deployment in Blue Growth and to support European SMEs competitiveness.</p> <p>Four countries have been identified as promising target with highest potential for European SMEs: Australia, Canada, South Africa, and United Arab Emirates.</p> <p>EO technologies represent an answer to many issues the maritime environment is facing. They contribute to the implementation of a sustainable blue economy as they are one of the most available, feasible and cost efficient technologies to explore, monitor, control and study the exploitation of oceans and their resources. Space2Waves aims to implement the internationalization plan designed in the preparatory phase.</p> <p>It will provide to European SMES using or creating EO technologies them a tailored-made programme to access to international markets and will promote their economic growth</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • AEROSPACE VALLEY (Partner) - France • ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIRO (Partner) - Greece • DISTRETTO TECNOLOGICO AEROSPAZIALE S.C. A R.L. (Partner) - Italy • FORUM OCEANO - ASSOCIACAO DA ECONOMIA DO MAR (Partner) - Portugal • MARINE SOUTH EAST LIMITED (Partner) - United Kingdom • TOULON VAR TECHNOLOGIES (Coordinator) – France



ESCP 4i – TEXGLOBAL

Name of the project	Description
<p>TEXGLOBAL</p> <p>European Innovative Textiles Go International: Innovative Global Value Chain Creation And Textile Global Markets Exploration</p>	<p>The general objective of the TEXGLOBAL project is to support the growth, the competitiveness and industrial modernisation of European Textile enterprises in long run by enhancing its innovation capacity.</p> <p>SMEs of European Textile sectors have to confront daily with an increasing competition. SMEs have to increasingly integrate their activities into global value chains by mean of new cooperation. A partnership composed of main Textile clusters in Europe will allow to provide SMEs with specialised business support services such as specific and strategical contacts from the target market, the organisation of international study visits, partnering missions, matchmaking events and incoming events.</p> <p>The activities of TEXGLOBAL project will support European SMEs to identify growth opportunities worldwide, raise their excellence and innovation capacities in a global ecosystem.</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • ASOCIACIÓN DE EMPRESARIOS TEXTILES DE LA REGIÓN VALENCIANA (Partner) - Spain • AGRUPACIO D'EMPRESSES INNOVADORES TEXTILS (Partner) - Spain • ASSOCIATION TECHTERA (Partner) - France • CENTRO TECNOLOGICO DAS INDUSTRIAS TEXTIL E DO VESTUARIO DE PORTU (Partner) – Portugal • NEXT TECHNOLOGY TECNOTESSILE SOCIETA NAZIONALE DI RICERCA R L (Coordinator) – Italy



ESCP 4i – PIMAP Plus

Name of the project	Description
PIMAP Plus Photonics for International Markets and Applications Plus	<p>The PIMAP+ consortium has been set up to support 6 leading European clusters, their SMEs and regional ecosystem actors to strengthen cross-sectoral cooperation in the fields of photonics, advanced manufacturing, metalworking and aerospace industry. Together they will accelerate innovation and the industrial modernisation process in Europe and will provide a springboard for cluster SMEs to internationalise and support regional actions through the leverage of photonic technologies and cross sectoral collaboration in key industrial value chains. The PIMAP+ project is a follow-up of the successful activities implemented in the PIMAP Partnership Strand 1 project funded under the COSME programme. After two years of action oriented project implementation and a solid internationalisation strategy, the partners seek to move to another level and accelerate access to international markets for SMEs and to support the development of business agreements and B2B cooperation.</p>
Duration	Partners
Start date: 01/09/2020 End date: 31/08/2022	<ul style="list-style-type: none"> • ASSOCIATION LASER PHOTONIQUE HYPERFREQUENCES & APPLICATIONS - AL (Coordinator) - France • ASSOCIAZIONE FABBRICA INTELLIGENTE LOMBARDIA (Partner) - Italy • BUSINESS JOENSUU OY (Partner) - Finland • IUC DALARNA AB (Partner) - Sweden • MORAVSKY LETECKY KLASTR OS (Partner) - Czech Republic • PRODUTECH-ASSOCIACAO PARA AS TECNOLOGIAS DE PRODUCAO SUSTENTAVEL (Partner) - Portugal



ESCP 4i – eT4S

Name of the project	Description
<p>eT4S</p> <p>European Technology for Sustainability</p>	<p>European Technology for Sustainability - eT4S - support the development of collaboration and business agreements between the EU and North America (North East Coast of the USA- and between the EU and Asia/Asean (Singapore and China ic. Shanghai).</p> <p>eT4S focus on technology enabled solutions addressing sustainability challenges in urban areas (water, air, energy, waste etc.).</p> <p>eT4S has as goals: to develop viable cooperation and business agreements in the eT4S domain. eT4S will explore concrete opportunities in the target regions hereby leveraging on the existing beachhead network which was already developed through the Smart City Tech partnership. This has to lead to at least 2 collaboration agreements and 4 business agreements; To oncrease te likelihood of impactful internationalization by developing a online assessment strategy</p>
Duration	Partners
<p>Start date:</p> <p>01/09/2020</p> <p>End date:</p> <p>31/08/2022</p>	<ul style="list-style-type: none"> • AALBORG KOMMUNE (Partner) - Denmark • ASOCIACIÓN DE INDUSTRIAS DEL CONOCIMIENTO Y TECNOLOGÍAS APLICADAS GAIA (Coordinator) - Spain • DSP VALLEY VZW (Partner) - Belgium • FUNDACJA DIGITAL KNOWLEDGE OBSERVATORY (Partner) – Poland • KLASTER SOFIA GRAD NA ZNANIETO (Partner) – Bulgaria



ESCP 4i – ADMANTEX2i

Name of the project	Description
<p>ADMANTEX2i</p> <p>Advanced Manufacturing and Advanced Textile Materials going international to strengthen resilience and to empower industrial recovery</p>	<p>ADMANTEX2i main objective is to lead international cluster cooperation in advanced manufacturing and advanced textile materials as an enabler for globally competitive sustainable products functional in a broad range of high-end applications.</p> <p>The project strategic cooperation vision is that digitalization is key enabler for both sectors to boost circular economy business solutions to strengthen resilience and to drive the recovery growth the economic opportunities of European SMEs.</p> <p>It focuses on 3 main pillars to build up internationalization opportunities: cooperation development, strong joint value proposition and international missions as demonstrators.</p>
Duration	Partners
<p>Start date:</p> <p>17/05/2021</p> <p>End date:</p> <p>16/05/2024</p>	<ul style="list-style-type: none"> ▪ ASOCIACIÓN DE EMPRESARIOS TEXTILES DE LA REGIÓN VALENCIANA (Partner) – Spain ▪ AGRUPACIO D'EMPRESSES INNOVADORES TEXTILS (Coordinator) - Spain ▪ ASSOCIAZIONE FABBRICA INTELLIGENTE LOMBARDIA (Partner) - Italy ▪ CENTRO TECNOLOGICO DAS INDUSTRIAS TEXTIL E DO VESTUARIO DE PORTU (Partner) - Portugal ▪ POLE EMC2 (Partner) - France ▪ PRODUTECH-ASSOCIACAO PARA AS TECNOLOGIAS DE PRODUCAO SUSTENTAVEL (Partner) – Portugal





D8.3 Stakeholder and related projects mapping

Ongoing H2020 INNOSUP

The Horizon 2020 “Innovation in SMEs” (INNOSUP) programme is aimed at testing new approaches for better innovation support through funding opportunities for innovation actors across Europe. It consists of innovation-support measures designed to provide opportunities to Member States and Regions to enhance their services to SMEs through collaboration, peer-learning, and testing new approaches that facilitate SMEs’ access to customers, capital and competencies.

The call *Cluster facilitated projects for new value chains* was aimed for projects with a concrete strategic vision to build new industrial value chains by integrating and supporting groups of SMEs in collaboration with other innovation actors.

Within the awarded projects, the two mentioned below have been selected as valuable from UNLOCK point of view:

- **BLOCK.IS**
- **DIGICIRC**

Currently, the INNOSUP actions fall under the European Innovation Ecosystem.



H2020 INNOSUP – BLOCK.IS

Name of the project	Description
BLOCK.IS Blockchain Innovation Spaces	Blockchain Innovation Spaces (Block.IS) envisions to build an open and collaborative cross-border, cross-sectoral innovation ecosystem that fosters the use of this cutting-edge technology in three vital sectors for the European economy: agrifood, logistics and finance. The catalysation is aimed at networking the members of the ecosystem, raising understanding of the benefits of blockchain technology and stimulating the creation of new blockchain-based solutions - Cluster Missions and Clusters-Innovators Assembly. Block.IS will support innovators (SMEs) all the way from ideation to commercialisation offering them tailored business and technical support as well as direct funding, through a novel funnel approach - Innovate > Experiment > Commercialise acceleration programme.
Duration	Partners
Start date: 01/05/2019 End date: 31/12/2021	<ul style="list-style-type: none"> • EUROPEAN DIGITAL SME ALLIANCE (Partner) - Belgium • F6S NETWORK LIMITED (Coordinator) - United Kingdom • FEDERACIÓN EMPRESARIAL DE AGROALIMENTACIÓN DE LA COMUNIDAD VALENCIANA (Partner) - Spain • FINTECHSTAGE LTD (Partner) - United Kingdom • INOSENS DOO NOVI SAD (Partner) - Serbia • INTERNATIONAL DEVELOPMENT IRELAND LIMITED (Partner) - Ireland • INTRASOFT INTERNATIONAL SA (Partner) - Luxembourg • NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ON (Partner) - Netherlands (the) • POSLOVNO UDRUZENJE VOJVODJANSKI IKT KLASTER (Partner) - Serbia • R-TECH GMBH (Partner) - Germany • SYNELIXIS LYSEIS PLIROFORIKIS AUTOMATISMOU & TILEPIKOINONION ANO (Partner) – Greece • UAB CIVITTA (Partner) – Lithuania



H2020 INNOSUP – DIGICIRC

Name of the project	Description
<p>DIGICIRC</p> <p>Digital innovations for the Circular Economy</p>	<p>The EU-funded DigiCirc project will permit SMEs to leverage digital technology as a key enabler for innovative circular products, services and business models to meet the goals that EU circular economy policies set. The project will establish and coordinate the DigiCirc innovation network, bringing together a wide range of stakeholders. This ecosystem will establish the foundation for an integrated, dynamic and cross-border/sector open space for innovation performed through the DigiCirc accelerators that are managed by innovation specialists able to transform validated concepts into solid business models towards a commercial launch.</p>
Duration	Partners
<p>Start date:</p> <p>01/05/2020</p> <p>End date:</p> <p>31/12/2022</p>	<ul style="list-style-type: none"> ▪ CAP DIGITAL (Coordinator) - France ▪ KEMIN DIGIPOLIS OY (Partner) - Finland ▪ OFFICINE INNOVAZIONE S.R.L. (Partner) - Italy ▪ F6S NETWORK IRELAND LIMITED (Partner) - Ireland ▪ POLITECNICO DI TORIN (Partner) - Italy ▪ DRAXIS ENVIRONMENTAL SA (Partner) - Greece ▪ ZORGIOS IOANNIS (Partner) - Greece ▪ ARTHUR'S LEGAL BV (Partner) - Netherlands ▪ FASTTRACK ACTION, LDA (Partner) - Portugal ▪ ASOCIACIÓN CENTRO TECNOLÓGICO NAVAL Y DEL MAR (Partner) - Spain ▪ INSPIRING CULTURE ASSOCIATION (Partner) - Switzerland



Ongoing BBI JU projects

The Bio-based Industries Joint Undertaking (BBI JU) is a Public-Private Partnership between the European Union and the Bio-based Industries Consortium (BIC) – a non-profit organisation set up in Brussels in 2013 and dedicated to transforming renewable, natural resources into bio-based products through a programme of research and innovation (R&I) activities.

The aim of BBI JU is to:

- Demonstrate new technologies to fill the gap in value chains
- Develop business models integrating all economic actors along the value chain
- Set-up flagship biorefinery plants deploying business models & technologies to keep investment in EU

Until today, BBI JU has funded +140 bio-based innovation projects involving +1000 beneficiaries from almost 40 EU Member States and Associated Countries.

BBI JU projects have three main focus areas:

- Feedstock – in terms of fostering a sustainable biomass supply in Europe that does not compete with food production, and create new supply chains;
- Biorefineries – referred to optimising efficient processing through R&D and demonstrating the model's efficiency and economic viability at a large-scale in demonstration actions and flagship biorefineries;
- Markets, products and policies- connected to developing markets for bio-based products and optimise policy frameworks to ease their market uptake.

Within the awarded projects, the four mentioned below have been selected as valuable from UNLOCK point of view:

- MPowerBIO
- Model2Bio
- BIOSWITCH
- USABLE PACKAGING

Their link to UNLOCK project is related to synergies within topics (bio-based industries), partners as potential facilitators of keratin-based market uptake within cluster networks, as well as potential engagement in co-creation activities and establishment of new feather-based cluster by the end of the project.



H2020 BBI JU – MPowerBIO

Name of the project	Description
<p>MPowerBIO</p> <p>eM-POWERing SME Clusters to help SMEs overcome the valley of death</p>	<p>The overarching objective of the MPowerBIO project is to improve the process of accessing funding for SMEs with bio-based innovations. MPowerBIO project will seek feedback from clusters, SMEs and investors on the challenges facing sourcing investments. To assist, it will build an online platform with digital tools for assessing investment readiness. It will also provide training with ten ‘train the trainer’ events for 90 clusters across the bioeconomy, covering most of Europe, supported by the online platform. MPowerBIO will ensure that clusters become self-supporting, with the ability to maintain these skills within their own organisations. Ultimately, the project will be replicable to other areas.</p>
Duration	Partners
<p>Start date: 01 May 2020</p> <p>End date: 30 November 2022</p>	<ul style="list-style-type: none"> ▪ Food & Bio Cluster Denmark (Denmark) ▪ Tech Tour Global (Bulgaria) ▪ Cluster Industrielle Biotechnologie 2021 EV (Germany) ▪ Fundación Corporacion Tecnologica de Andalucía (Spain) ▪ Consorzio Italbiotec (Italy) ▪ Foodscale Hub Entrepreneurship and Innovation Association (Serbia) ▪ EIT Food (Belgium) ▪ Irish Bioeconomy Foundation (Ireland) ▪ Q-Plan International Advisors PC (Greece) ▪ Sustainable Innovations Europe SL (Spain)



H2020 BBI JU – MODEL2BIO

Name of the project	Description
<p>MODEL2BIO</p> <p>Modelling tool for giving value to agri-food residual streams in bio-based industries</p>	<p>The MODEL2BIO project will develop and validate an innovative model-based decision support tool that predicts the physicochemical characteristics of the bio-based residual streams generated in the agri-food sector. It will explore the available alternative options for their valorisation as feedstock and propose the appropriate steps. The proposed approaches will take into account social, economic, environmental and regulatory criteria, including logistics.</p> <p>The main MODEL2BIO project objective is to develop and validate its Decision-Support System (MODEL2BIO-DSS) tool. This is designed to link the food and drink primary sector with the bioindustry and help improve agri-food industry waste management.</p>
Duration	Partners
<p>Start date: 01 May 2020</p> <p>End date: 30 April 2023</p>	<ul style="list-style-type: none"> ▪ Asociacion Centro Tecnologico Ceit - CEIT (Spain) ▪ Asociacion para la Investigacion Desarrollo e Innovacion del Sector Agroalimentario – CTIC-CITA (Spain) ▪ Universidad de Navarra - Tecnun (Spain) ▪ Stichting Wageningen Research - WFBR (Netherlands) ▪ Celabor SCRL (Belgium) ▪ Cluster Viooikonomias Kai Perivallontos Dytikis MakedoniaS – CluBE (Greece) ▪ Asociacion Cluster Food+I (Spain) ▪ Flanders' Food (Belgium) ▪ Iznab Spolka z Ograniczona Odpowiedzialnoscia - IZNAB (Poland) ▪ European Science Communication Institute (ESCI) GGmbH (Germany) ▪ Anonymi Etaireia Diacheirisis Aporrimmaton Per Dytikis Makedonias - DIADYMA (Greece)



H2020 BBI JU – BIOSWITCH

Name of the project	Description
<p>BIOSWITCH</p> <p>Encouraging brand owners to switch to bio-based in highly innovative ecosystems</p>	<p>The BIOSWITCH project aims to encourage and support brand owners when choosing to switch to a bio-based approach. It will do this by creating a framework – through a series of events and outreach activities – that places brand owners at the centre of a triangle consisting of the public administration, the bio-based industry and consumers. This will allow them to determine solutions that reduce the potential risk in making this switch. It will also provide a BIOSWITCH toolbox that will assist companies in their transition.</p> <p>The overall objective of the BIOSWITCH project is to ensure the continued uptake of the outputs of the bio-based industry by encouraging brand owners to adopt it as a core value.</p>
Duration	Partners
<p>Start date: 01 June 2020</p> <p>End date: 31 May 2022</p>	<ul style="list-style-type: none"> ▪ Clic Innovation Oy (Finland) ▪ Fundacion Corporacion Tecnologica de Andalucía (Spain) ▪ Teknologian Tutkimuskeskus VTT Oy (Finland) ▪ Food and Bio Cluster Denmark (Denmark) ▪ Institute of Technology Tralee (Ireland) ▪ Flanders' Food (Belgium) ▪ BTG Biomass Technology Group BV (Netherlands) ▪ Sustainable Innovations Europe SL (Spain)



H2020 BBI JU - USABLE PACKAGING

Name of the project	Description
USABLE PACKAGING Unlocking the potential of Sustainable Biodegradable Packaging	The overall objective of the project is aimed at developing commercially-viable alternatives to petrochemical-based packaging. The USABLE PACKAGING project will establish a new value chain for bioplastics. This will be based on low-cost and widely-available feedstock, such as by-products and sidestreams from the food processing industry by converting the feedstock into poly-hydroxy-alkanoates (PHA).
Duration	Partners
Start date: 01 June 2019 End date: 31 May 2022	<ul style="list-style-type: none"> ▪ Agencia Estatal Consejo Superior de Investigaciones Científicas (Spain) ▪ Bio Base Europe Pilot Plant VZW (Belgium) ▪ Fundación Gaiker (Spain) ▪ Alma Mater Studiorum - Università di Bologna (Italy) ▪ Nuova Ompi SRL (Italy) ▪ Innoven SRL (Italy) ▪ Università Degli Studi di Roma la Sapienza (Italy) ▪ Bioinicia SL (Spain) ▪ Institut National de la Recherche Agronomique (France) ▪ Innoexc GmbH (Switzerland) ▪ Barilla GER Fratelli SPA (Italy) ▪ Bio-based and Biodegradable Industries Association (BBIA) Ltd (United Kingdom) ▪ Agricultural University of Athens (Greece) ▪ SONAE MC - SERVICOS PARTILHADOS, SA SONAE (Portugal) ▪ Universidad de Santiago de Compostela (Spain) ▪ Sabio SRL (Italy) ▪ Université de Montpellier (France) ▪ PUBLI EMBAL (France) ▪ Nova ID FCT - Associação para a Inovação e Desenvolvimento da FCT (Portugal) ▪ MATIKEM (France) ▪ Bio-Mi Društvo S Ogranicenom Odgovornošću Za Proizvodnju, Istraživanje i Razvoj (Croatia) ▪ Orogel Società' Cooperativa Agricola (Italy) ▪ Cooperative Agricole Vitifruttilcoltori Italiani Riuniti Organizzati (Italy) ▪ Poznanska Hodowla Roslin Spółka Z Ograniczoną Odpowiedzialnością (Poland)



	<ul style="list-style-type: none"> ▪ Koruma Klor Alkali Sanayi Ve Ticaret Anonim Sirketi (Turkey)
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Recently closed EU-funded projects relevant for UNLOCK implementation and synergy seeking

Taking into account the innovativeness of UNLOCK project and its efforts towards finding new opportunities and new solutions, new products and new technological processes, UNLOCK partners will take into account the already closed projects, as they are considered a huge source of data, learning and contacts valuable both from stakeholders and related project mapping points of view.

To do so, they will build on the following programmes and projects identified as the ones that can support building, integrating, and reconfiguring UNLOCK partners' internal and external competences:

European Cluster Partnerships for smart specialisation investments” (ESCP-S3)

- ESCP-S3 DIGICLUSTERS
- ESCP-S3 TRACK
- ESCP-S3 CONNENSYS

European Strategic Cluster Partnership for Going International (ESCP 4i)

- ADPACK2

H2020 INNOSUP

- DIVA
- VIDA
- C-VOUCHER

H2020 BBI

- BIOPEN
- ICT-BIOCHAIN
- Pilots4U
- URBIOFUTURE

The list of the closed projects is not exhaustive and will be updated periodically to support shaping the bio-business environment and forward-thinking towards circular bioeconomy.



ESCP S3 – DIGICLUSTERS

Name of the project	Description
<p>DIGICLUSTERS</p> <p>ESCP S3 for speeding up industrial modernisation of agrofood packaging sectors towards Industry 4.0 and digital transformation by Cluster-Facilitated X-Industry Hackathons</p>	<p>DIGICLUSTERS is a novel European Strategic Cluster Partnership for smart specialization investments and industrial modernisation of agrofood & packaging sectors towards Industry 4.0 and digital transformation through Cluster-Facilitated X-Industry Hackathons. The consortium of seven partners, six clusters and one technology center, from four different countries and representing 726 SMEs will bridge the gap between high-tech industries and food & packaging sectors introducing new tool – Hackathons – to create new linkages across Europe, connect innovation & territorial ecosystems and prototype new, more advanced products and services. Intra-regional and interregional hackathons will bring together ICT & electronics and agrofood & packaging, match their needs with solutions and boost new investment projects to jointly empower the emergence of cross-sectoral innovations linked to digital innovation and industrial modernisation. It is coherent with Regional Smart Specialisation Strategies (RIS3) of the participating regions and Smart Specialisation Platform for Industrial Modernisation (S3P-Industry) related to Industry 4.0 and entirely supported by regional authorities and other partners who already expressed they will to participate in its execution.</p>
Duration	Partners
<p>Start date: 01/10/2018</p> <p>End date: 31/03/2020</p>	<ul style="list-style-type: none"> • ASOCIACIÓN CLÚSTER GRANADA PLAZA TECNOLÓGICA Y BIOTECNOLÓGICA (Partner) - Spain • FUNDACJA UNIMOS (Partner) - Poland • LATVIJAS INFORMACIJAS TEHNOLOGIJU KLASTERIS (Coordinator) - Latvia • LATVIJAS PARTIKAS UZNEMUMU FEDERACIJA (Partner) - Latvia • LIETUVOS MAISTO EKSPORTUOTOJU ASOCIACIJA (LITMEA) (Partner) - Lithuania • LIETUVOS SPAUSTUVININKU ASOCIACIJA (Partner) – Lithuania • VIESOJI ISTAIGA LIETUVOS INOVACIJU CENTRAS (Partner) - Lithuania



ESCP S3 – TRACK

Name of the project	Description
<p>TRACK</p> <p>Tracking opportunities to develop and strengthen data collection and big data in agri-food chain to increase competitiveness of SMEs</p>	<p>TRACK will aim at creating a favourable interregional ecosystem to stimulate</p> <ol style="list-style-type: none"> i) new innovative solutions fitting specific requirements of agri-food chain and ii) associated joint investments toward advanced agrifood industry 4.0. <p>It will be achieved through the modernization of the vegetal-based agrifood chain by intensifying cross-pollination between ICT / traceability and big data (TBD) sectors, in priority SMEs, and actors of the agrifood industry. TRACK will increase the competitiveness of these actors, in close connection with Agro-Food S3 Platform on «Traceability and Big Data», by tracking opportunities to develop and strengthen data collection and big data in the agrifood sector to boost agrifood industry 4.0.</p> <p>TRACK involves a consortium of 5 clusters partners constituted with a special care to both guarantee a strong complementarity regarding domains of interest, crossing Agriculture and ICTs, geographic coverage and types of services provided to SMEs and ensure some future productive interclustering activities.</p>
Duration	Partners
<p>Start date:</p> <p>01/10/2018</p> <p>End date:</p> <p>30/09/2020</p>	<ul style="list-style-type: none"> • ASOCIATIA CLUSTERUL AGRO-FOOD-IND NAPOCA (Partner) - Romania • CLUST-ER AGROALIMENTARE (Partner) - Italy • FUNDACION CORPORACION TECNOLOGICA DE ANDALUCIA (Partner) - Spain • STICHTING GREENPORT WESTLAND OOSTLAND (Partner) - Netherlands (the) • VEGEPOLYS (Coordinator) - France



ESCP S3 – CONSENSYS

Name of the project	Description
<p>Connsensys</p> <p>Connecting smart sensor systems for the food industry</p>	<p>The overall objective of the project is to set up a platform, with a joint cluster partnership strategy, implementation roadmap and interregional investment projects, between food- and electronic/ICT cluster organizations and relevant research and technology organizations, to lower the barriers for food companies to access the newest smart sensor systems, to enable the Internet of Things (IoT) transition of the food industry. The food industry has specific requirements for sensors and the related IT challenges and also expects the machine manufacturers to integrate these sensors in the equipment/machines they produce. By creating this European smart sensor systems platform, the involved stakeholders will get a better understanding of each other's possibilities and requirements for these technologies. CONSENSYS wants to facilitate the implementation of the smart sensor systems technologies by setting up living labs, where the technologies can be demonstrated and we aim to set-up comparable living labs, staffed with competent, multidisciplinary teams, in other regions in Europe, learn from each other and interconnect. The aim of the model is to increase the awareness and explore the application of existing, upcoming smart sensor systems for the food industry followed by implementation.</p>
Duration	Partners
<p>Start date: 01/11/2018</p> <p>End date: 31/10/2018</p>	<ul style="list-style-type: none"> • ASOCIACIÓN CLÚSTER ALIMENTARIO DE GALICIA (Partner) - Spain • ASOCIACIÓN DE INVESTIGACIÓN DE INDUSTRIAS CARNICAS DEL PRINCIPAD (Partner) - Spain • CAMPDEN BRI MAGYARORSZAG NONPROFIT KORLATOLT FELELOSSEGU TARSASA (Partner) - Hungary • FLANDERS' FOOD (Coordinator) - Belgium • FOOD-PROCESSING INITIATIVE E. V (Partner) - Germany • FUNDACIÓN INSTITUTO TECNOLÓGICO DE GALICIA (Partner) - Spain • INNOSKART VALLALKOZASFEJLESZTESI NONPROFIT KFT (Partner) – Hungary • VIAMECA (Partner) - France



ESCP 4i – AdPack2

Name of the project	Description
AdPack2 European Strategic Cluster Partnership For Advanced Smart Packaging	<p>The purpose of this project is to foster cross-sectoral cooperation between the European clusters in the partnership and their SME members, as well as to support their SME members in going international and positioning them in the advanced smart packaging global value chain. This will be done through the establishment of an ESCP formed by 6 European clusters which bring together different competencies to apply a cross-sectoral approach for the development of the advanced smart packaging global value chain. In this regard, the partnership brings together clusters involved with the final product (packaging), the application market (food), cross-cutting technology clusters (nanotechnologies, microelectronics, software, telecommunications and plasma technologies) and new materials (plastics, polymers and biopolymers).</p> <p>The partnership clusters aim to cooperate in order to implement their joint internationalization strategy towards defined target third countries (Canada, China and United States) and support AdPack2 SME members in establishing cooperation with relevant counterparts in the target countries.</p>
Duration	Partners
Start date: 01/12/2017 End date: 30/11/2019	<ul style="list-style-type: none"> • CLÚSTER DEL PACKAGING (Partner) - Spain • BALTICNET PLASMATEC (Partner) - Germany • INOVCLUSTER ASOCIACAO DO CLUSTER AGRO INDUSTRIAL DO CENTRO (Partner) - Portugal • NANOPROGRES ZS (Coordinator) - Czech Republic (the) • PLASTIWIN (Partner) – Belgium • POLE SOLUTIONS COMMUNICANTES SECURISEES(Partner) - France



H2020 INNOSUP – DIVA

Name of the project	Description
<p>DIVA</p> <p>Boosting innovative Dlgitech Value chains for Agrofood, forestry and environment</p>	<p>DIVA project aims at providing support to the emergence and development of new industrial digitech value chains with applications to the Agrofood sector and related sectors forestry and environment. The focus is on digital marketplaces, big data, cloud, robotics & artificial intelligence, cyber-physical systems, IoT and digital/electronic/photonics components.. The DIVA project concept relies on the creation of open-spaces in order to boost cross-fertilisation between SMEs, stakeholders from the application sectors and operators of the digital economy. Direct and Indirect support to SMEs will be provided in order to accelerate new ideas all along the innovation chain, from idea emergence up to the demonstration and the internationalization stages with a focus on the creation of new value chains.</p>
Duration	Partners
<p>Start date: 01/04/2018</p> <p>End date: 31/03/2021</p>	<ul style="list-style-type: none"> • AGRI SUD OUEST INNOVATION (Coordinator) - France • ASOCIACION MULTISECTORIAL DE EMPRESAS DE LA ELECTRONICA, LAS TECNOLOGÍAS DE LA INFORMACIÓN, COMUNICACIONES Y ELECTRÓNICA (Partner) - Spain • C.R.P.V. CENTRO RICERCHE PRODUZIONI VEGETALI SOCIETA COOPERATIVA (Partner) - Italy • DIGITALPLACE (Partner) - France • ETHNIKO DIKTYO EREVNAS TECHNOLOGIAS AE (Partner) - Greece • FUNDACIÓN CORPORACIÓN TECNOLÓGICA DE ANDALUCÍA (Partner) - Spain • H-FARM SPA (Partner) - Italy • INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, (Partner) - Portugal • INOVISA - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO EMPRESARIAL (Partner) - Portugal • INSTITUTO SUPERIOR DE AGRONOMIA (Partner) - Portugal • TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY (Partner) - Ireland



H2020 INNOSUP – VIDA

Name of the project	Description
<p>VIDA</p> <p>Value-added Innovation in food chAins</p>	<p>Value-added Innovation in food chAins (VIDA) will nurture and harness the growth and innovation potential of SMEs working across European food chains, bringing together four complementary and mutually dependant sectors; food, energy, water and key enabling technologies (KET). VIDA will strengthen current and develop new cross-sectoral industrial value chains within the food production and processing industries through a combination of direct and indirect innovation actions, as well as support and capacity building measures. These will include open-innovation and virtual collaboration tools, mentoring and knowledge-sharing activities and a 'twin-track' innovation voucher scheme which will support the realisation of high-TRL, large-scale, demonstration and commercialisation projects across Europe.</p>
Duration	Partners
<p>Start date: 01/04/2018</p> <p>End date: 31/03/2021</p>	<ul style="list-style-type: none"> ▪ ARAGON INNOVALIMEN (Partner) - Spain ▪ ASOCIACION CLUSTER URBANO PARA EL USO EFICIENTE DEL AGUA (Partner) - Spain ▪ BALTICNET PLASMATEC (Partner) - Germany ▪ CLEAN (Partner) - Denmark ▪ FOOD-PROCESSING INITIATIVE E. V (Partner) - Germany ▪ LOMBARDY ENERGY CLEANTECH CLUSTER (Partner) - Italy ▪ NANOPROGRES ZS (Partner) - Czech Republic (the) ▪ SOCIEDADE PORTUGUESA DE INOVACAO CONSULTADORIA EMPRESARIAL E FOM (Partner) - Portugal ▪ STICHTING CENTRE OF EXPERTISE WATERTECHNOLOGIE (Coordinator) - Netherlands (the) ▪ STICHTING WATER ALLIANCE (Partner) - Netherlands (the)



H2020 INNOSUP – C-VOUCHER

Name of the project	Description
C-VOUCHER Circularize Value Chains across European Regional Innovation Strategies	C-VoUCHER aims to develop new circular (cradle to cradle) value chains, disrupting traditional linear (cradle to waste) business models by means of cross-fertilization with Design Thinking experts and Circular Disruptors. C-VoUCHER is the proof-of-concept framework where 24 selected Classic SMEs from traditional industries (Agro-Food, Health, Sea, Textile, and Manufacturing), will be offered an innovative 4-phase Circularity Program to develop 12 Circularity Solutions, to be then introduced in 42 Adopter SMEs with similar challenges. The regional CE Champions will be showcased to create 'school' at Regional Level and beyond. The project will leverage €6M of complementary funding for CE Champions and Adopters (provided by private and public investors). Also, a 'Circular Design Toolkit for Regions' will be produced to mainstream the methodology in the other EU Regions.
Duration	Partners
Start date: 01/04/2018 End date: 31/03/2021	<ul style="list-style-type: none"> ▪ AGENCJA ROZWOJU MAZOWSZA SPOLKA AKCYJNA (Partner) - Poland ▪ AGENTIA DE DEZVOLTARE REGIONALA NORD-VEST (Partner) - Romania ▪ AXENCIA GALEGA DE INNOVACION (Partner) - Spain ▪ BLUMORPHO SAS (Partner) - France ▪ DANMARKS TEKNISKE UNIVERSITET (Partner - TERMINATED) - Denmark ▪ DEN ERHVERVSDRIVENDE FOND DEVELOPMENT CENTRE UMT (Partner) - Denmark ▪ ECONET S.L. (Partner) - Spain ▪ FORENINGEN MADE (Partner) - Denmark ▪ FUNDINGBOX ACCELERATOR SP ZOO (Coordinator) - Poland ▪ FUNDINGBOX COMMUNITIES SL (Partner) - Spain ▪ NEUCA SA (Partner) - Poland ▪ SYSTEM@TIC PARIS REGION (Partner) - France ▪ Tillväxtverket (Partner) - Sweden ▪ TREKANTOMRADET DANMARK (Partner - TERMINATED) - Denmark ▪ VEJLE KOMMUNE (Partner) - Denmark



H2020 BBI JU - BIOPEN

Name of the project	Description
BIOPEN	<p>BIOPEN ambition is to become a single voice for the bio-based industries in Europe, gathering expertise and promoting engagement and involvement of industry, researchers and academia at European and national level, by setting up an Open-innovation platform addressing strategic cross-cutting challenges such as (i) clustering and networking to develop new value chains and favour the emergence of co-innovation partnerships across the value chains; (ii) Stakeholders engagement and support with regards to setting-up at least 20 co-innovation partnerships alongside existing and new value chains; (iii) creation of a knowledge centre collecting the prospective and insight of the community, and providing access to relevant information for markets and products innovations in the bio-based ecosystem.</p>
Duration	Partners
<p>Start date: 01/05/2017</p> <p>End date: 31/12/2019</p>	<ul style="list-style-type: none"> ▪ BCM BIOECONOMY CLUSTER MANAGEMENT GMBH (Partner) - Germany ▪ CIAOTECH Srl (Coordinator) - Italy ▪ CLUSTER INDUSTRIELLE BIOTECHNOLOGIE 2021 E.V. (Partner) - Germany ▪ EUROPE UNLIMITED S.A. (Partner) - Belgium ▪ INNOVATION ENGINEERING SRL (Partner) - Italy ▪ NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA (Partner) - Greece ▪ STICHTING BIOBASED DELTA (Partner) - Netherlands (the) ▪ STOWARZYSZENIE ZACHODNIOPOMORSKI KLASTER CHEMICZNY ZIELONA CHEMI (Partner) - Poland ▪ TECH TOUR GLOBAL (Partner) - Bulgaria ▪ TURKU SCIENCE PARK OY AB (Partner) - Finland



H2020 BBI JU - ICT-BIOCHAIN

Name of the project	Description
ICT-BIOCHAIN ICT-BIOCHAIN - ICT Tools in Efficient Biomass Supply Chains for Sustainable Chemical Production	ICT-BIOCHAIN brings leading experts and support networks to develop Digital Innovation Hubs within ready-made test bed bioeconomy regions to examine opportunities for ICT, IoT and Industry 4.0. to increase the efficiency of high potential value biomass supply chains. In 2016, the EU selected 6 "model demonstrator regions" to lead the way towards sustainable chemical production. Within ICT-BIOCHAIN, two of these high potential Model Demonstrator Regions, South East Ireland and Andalusia, will serve as test bed locations for the development of digital innovation hubs for biomass mobilisation. The competence centres will provide access within hubs to the best knowledge, information and technology to promote opportunities for ICT, IoT and Industry to be integrated into biomass supply chains. This will support the development of the EU bioeconomy by facilitating greater availability of competitively priced and sustainable biomass. ICT-BIOCHAIN will build on the work done in improving forestry biomass supply chains through integration of ICT tools, transferring state-of-the-art and new ICT, IoT and Industry 4.0 solution to region specific biomass supply chains. To ensure commercial opportunities are realised, project will build on ongoing regional bioeconomy developments and opportunities identified in existing Investment Readiness Analyses carried out for the Model Demonstrator Regions.
Duration	Partners
Start date: 01/06/2018 End date: 31/05/2020	<ul style="list-style-type: none"> ▪ CONSEJERIA DE AGRICULTURA , GANADERÍA, PESCA Y DESARROLLO SOSTEN (Coordinator) - Spain ▪ FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG (Partner) - Germany ▪ FUNDACION CORPORACION TECNOLOGICA DE ANDALUCIA (Partner) - Spain ▪ INSTITUTE OF TECHNOLOGY TRALEE (Partner) - Ireland ▪ IRISH BIOECONOMY FOUNDATION (Partner) - Ireland ▪ SUSTAINABLE INNOVATIONS EUROPE SL (Partner) - Spain ▪ Teknologian tutkimuskeskus VTT Oy (Partner) - Finland ▪ UNIVERSITY OF STRATHCLYDE (Partner) - United Kingdom



H2020 BBI JU - Pilots4U

Name of the project	Description
<p>Pilots4U</p> <p>A network of bioeconomy open access pilot and multipurpose demo facilities</p>	<p>Pilots4U aims to setup one very visible, easy accessible network of open access pilot and multipurpose demo-infrastructures for the European bio-economy with Europe-wide coverage and protecting IP rights of users. Since pilot-and demo equipment is very expensive and requires specific expertise, open access infrastructures are the most cost-effective manner to support the deployment of industry-driven innovations in the market. To assure that the network meets the needs of the European bio-economy industry (SMEs, start-ups, Large enterprises), current European pilot and demo-capabilities are compared with the needs of the European biobased industry. The project consortium has all the required players to succeed: Six partners are coordinating bio-economy pilot or multipurpose demo-infrastructure networks, and therefore assure the involvement of over 40 infrastructures: Bio Base Europe Pilot Plant (SmartPilots), VTT (ERIFORE), Royal Institute of Technology KTH (BRISK), Swansea University (Enalgae), Ghent University (Biorefine Cluster Europe) and NNFCC (as secretary of the BioPilotsUK initiative). The cluster organisation CLIC Innovation is representing industry that is contributing in cash to the project.</p>
Duration	Partners
<p>Start date: 01/06/2017</p> <p>End date: 31/08/2019</p>	<ul style="list-style-type: none"> ▪ BIO BASE EUROPE PILOT PLANT VZW (Coordinator) - Belgium ▪ EUROPEAN REGIONS RESEARCH AND INNOVATION NETWORK ASBL (Partner) - Belgium ▪ FINNISH BIOECONOMY CLUSTER FIBIC OY (Partner) - Finland ▪ KUNGLIGA TEKNISKA HOEGSKOLAN (Partner) - Sweden ▪ SWANSEA UNIVERSITY (Partner) - United Kingdom ▪ Teknologian tutkimuskeskus VTT Oy (Partner) - Finland ▪ The National Non-Food Crops Centre (Partner) - United Kingdom ▪ UNIVERSITEIT GENT (Partner) - Belgium



H2020 BBI JU - URBIOFUTURE

Name of the project	Description
URBIOFUTURE Boosting future careers, education and research activities in the European bio-based industry	UrBIOfuture main goal is to bring Europe to the forefront of the bio-based sector by boosting careers, new educational programmes and research activities. This approach is intended to be developed in this project as a 3-step methodology: (1) An identification step, involving career mapping of programmes involving bio-based activities and pointing of skills mismatch between them and the bioindustry needs as main KPIs (2) An interaction step, in which the constant contact and contributions of the education sector, academia and industry will be sought throughout the project. (3) The implementation of UrBIOfuture, through an appropriate Communication and Dissemination plan; the organization of promotional events, train-the-trainer and train-the-student workshops; and the development of an afterlife plan will ensure the broader impact of the results materialised in the project among the European bio-based sector. The results of UrBIOfuture will help building a bio-based industrial sector with the adequately skilled people, that are able to operate innovative value chains while establishing and sustaining a solid bio-based industry in Europe.
Duration	Partners
Start date: 01/05/2019 End date: 30/04/2020	<ul style="list-style-type: none"> ▪ AGRO BUSINESS PARK AS (Partner) - Denmark ▪ CONSIGLIO NAZIONALE DELLE RICERCHE (Partner) - Italy ▪ FUNDACION CORPORACION TECNOLOGICA DE ANDALUCIA (Partner) - Spain ▪ FUNDACJA UNIWERSYTETU IM ADAMA MICKIEWICZA W POZNANIU (Partner) - Poland ▪ STICHTING IHE DELFT INSTITUTE FOR WATER EDUCATION (Partner) - Netherlands (the) ▪ SUSTAINABLE INNOVATIONS EUROPE SL (Partner) - Spain ▪ Teknologian tutkimuskeskus VTT Oy (Partner) - Finland ▪ UNIVERSITAT AUTONOMA DE BARCELONA (Coordinator) - Spain ▪ VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. (Partner) - Belgium



2.5.6 Other projects, networks and initiatives at European and international level relevant for UNLOCK implementation

Name	Description	Website
S3 Thematic Platforms	The Thematic Smart Specialisation Platforms are joint initiatives between several Directorate Generals of the European Commission that encourage regions and their innovation actors across the EU to build strategic partnerships, promoting complementarity of regional funding for innovation in specific smart specialisation areas.	https://s3platform.jrc.ec.europa.eu/s3-thematic-platforms
The Smart Specialisation Platform for Agri-Food (S3P Agri-Food)	The Smart Specialisation Platform for Agri-Food (S3P Agri-Food) established at EU level aims to accelerate the development of joint investment projects in the EU by encouraging and supporting interregional cooperation in thematic areas based on smart specialisation priorities defined by regional and national government linked to agriculture and food.	https://s3platform.jrc.ec.europa.eu/agri-food
The Smart Specialisation Platform for Industrial Modernisation (S3P-Industry)	The Smart Specialisation Platform for Industrial Modernisation (S3P-Industry) supports industrial modernisation across the EU by facilitating the emergence of inter-regional partnerships focused on shared investment projects.	https://s3platform.jrc.ec.europa.eu/industrial-modernisation
EIT Food	Europe's leading food innovation initiative, working to make the food system more sustainable, healthy and trusted.	https://www.eitfood.eu/
EIT Digital	EIT Digital is a leading European digital innovation and entrepreneurial education organisation driving Europe's digital transformation. Its way of working embodies the future of innovation through a pan-European ecosystem of over 200 top European corporations, SMEs, start-ups, universities and research institutes, where	https://www.eitdigital.eu/



	students, researchers, engineers, business developers and entrepreneurs collaborate in an open innovation setting. EIT Digital aims at global impact through European innovation fueled by entrepreneurial talent and digital technology.	
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Conclusion

The objective of this report was to describe the UNLOCK project's stakeholder and related projects map to determine the importance of each of the group to the development of the project and to identify synergies and cross-fertilization areas.

The interconnected approach taken to stakeholders in the mapping and engagement process highlighted the valuable role of all stakeholders who may affect, be affected or perceive themselves to be affected by the development of UNLOCK project.

Stakeholders' engagement and commitment during the project life cycle will provide a good opportunity for exploring business and cooperation opportunities, as well as developing a shared understanding of the key challenges and opportunities that ultimately will contribute to the creation of new feather clusters.

The stakeholder mapping is aimed at providing a broad overview of organizations and projects, which might be of interest for the UNLOCK consortium.

A key benefit of the involvement of the project partners is to have the possibility to participate in the journey to transform traditional poultry systems to circular, sustainable ones and jointly explore current and future business, cooperation and innovation opportunities. The identified related projects will serve as a basis for cross-fertilization and collaboration among innovation and industrial entities from different countries.

The mapping is a living document, and it will be updated along the project by identifying new stakeholders and related projects through the different UNLOCK activities.

