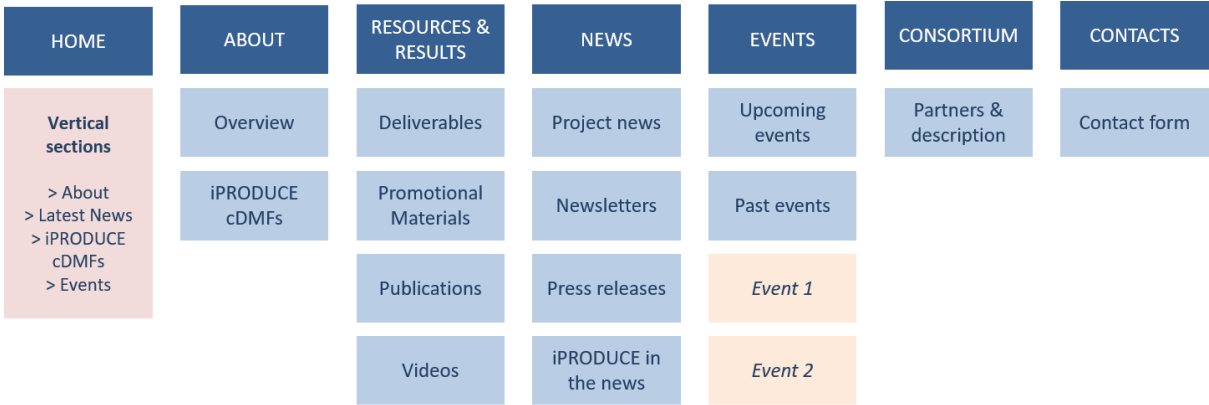


# iPRODUCE website structure



## HOME

### About

The Horizon 2020 project iPRODUCE - “A Social Manufacturing Framework for Streamlined Multi-stakeholder Open Innovation Missions in Consumer Goods Sectors” (2020-2022) will develop a novel social manufacturing platform to enable multi-stakeholder interaction and collaboration to support user-driven open-innovation and co-creation.

[Add link to the **OVERVIEW** page]

### Latest News

Use boxes or something similar to fit in small snippets of the 3-6 most recent news items.

### iPRODUCE cDMFs

Use boxes or something similar to fit in small image of the cDMF.

### Events

Use boxes or something similar to fit in small snippets of 3 upcoming events.

## ABOUT

Selecting the 'About' menu button jumps to the 'Overview' page.

### Overview

iPRODUCE aims to deliver a novel **social manufacturing platform** to enable **multi-stakeholder interactions and collaborations** to support **user-driven open-innovation and co-creation**.

At the heart of the iPRODUCE platform is an open digital space that facilitates co-creation ventures, and is used by a set of innovative tools that support matchmaking, secure interactions, generative product design, process orchestration, co-creation up to agile prototyping, usability evaluations and lifecycle management.

The iPRODUCE platform will be deployed in local 'ecosystems' (composed of SME associations, manufacturing and specialist SMEs, Fablabs, Makers spaces, and others) under the concept of collaborative manufacturing demonstration facilities (cMDFs).

The platform will support knowledge and resource sharing across cMDFs, which are equipped with co-creation methodologies, training toolkits and sharing-economy business models to adapt the organisational systems, shape the social manufacturing processes and scale collaborative production activities.

### Concept

The iPRODUCE project introduces a novel social manufacturing platform that embraces manufacturing companies in the consumer goods sector, their associations/ networks, Fablabs/ makers spaces, DIY communities and various other innovation players at the local level. The platform adopts Fab-Lab concepts and makers approaches and installs them in local multi-stakeholder ecosystems that are transformed collaborative manufacturing ecosystems supported by cMDFs.

In iPRODUCE, local cMDFs will come together in a flexible federated organisational structure that enables knowledge extraction and sharing, and also the sharing of resources and of manufacturing facilities.

iPRODUCE's aim is threefold: (1) To bring closer Manufacturers, Makers and Consumer communities (MMCs) at the local level; (2) To engage them into joint co-creation challenges for the manufacturing of new consumer products and the introduction of novel engineering and production (eco)systems; and (3) to fuse practices, methods and tools that both makers and manufacturing companies (SMEs specifically) are employing.

### Objectives

The iPRODUCE project concept is implemented through several objectives.

- To define a social manufacturing framework (SMF) for the collaborative design, engineering and manufacturing of consumer goods by engaging manufacturers, makers and consumers (MMCs) in relevant open innovation (OI) challenges/ missions.
- To create and establish local Collaborative Manufacturing Demonstration Facilities (cMDF) by interconnecting and enriching existing micro-manufacturing facilities. For this purpose various local stakeholders are expected to 'join' facilities/ infrastructure to support.

- To develop and deploy a digital platform that will facilitate the activities of the local cDMFs and will allow them to operate independently (at local level) under a loose federated organizational structure (at European level).
- To develop and deploy a set of digital tools that will stimulate co-creation and open innovation in the consumer goods sectors; (including also the development of e-training sessions, recommendations for green production engineering, recycling/repairing and circular economy approaches), etc.
- To introduce social media-driven consumer and makers engagement strategies
- To devise novel sharing economy business models and IPR management strategies and tools to simplify and automate multi-stakeholder interactions. (business models for shorter time to market product engineering; Build trust through smart contracts and tokenisation of work and IPR).
- To integrate the social manufacturing framework, the digital platform and the digital tools into a social manufacturing space.
- To define the iPRODUCE open innovation challenges and validate and demonstrate the proposed social manufacturing space through 5 pilot cDMFs and 15 open innovation missions in 4 consumer goods subsectors.

### Workplan

This section of the website should be divided into small modules, where each WP can be open closed to show/hide the respective description.

iPRODUCE is structured into and implemented through 10 Work Packages.

- **WP1. Project Management (Leader: AIDIMME)**  
*WP1 aims to coordinate the technological and scientific orientation of the project; guarantee high-quality standards and the achievement of objectives; manage project resources and risks; and manage ethical, societal and IPR issues.*
- **WP2. Business Challenge Definition for Social Manufacturing in Consumer Goods Sectors (Leader: VLC)**  
*WP2 aims to consolidate the project vision and user scenarios, benchmarking it against micro-factory and collaborative production models, while providing requirements and KPIs; identify and analyse stakeholders' perceptions, needs, drivers and barriers in regard to their engagement in user innovation and social manufacturing; produce a detailed mapping of co-creation and open innovation methods, tools and practices based on identified stakeholder needs; collect high-level consumer goods industry sector scenarios, use cases and KPIs to address co-design/ production and open-innovation challenges; develop a holistic social manufacturing/ collaborative production reference model.*
- **WP3. Establishment of Local Collaborative Manufacturing Demonstration Facilities (Leader: TS)**  
*WP3 aims to define the project's approach towards the lean operational model of cDMFs' federations; define the approach towards assessing cDMF's technological and manufacturing and provide them the toolset to improve their capacity; define the method to enable cDMF's*

*Federations; define the toolkit for cDMF's workflow simulation and improvement through digitalisation.*

- **WP4. iPRODUCE Core Services and Digital Platform for Social Manufacturing (Leader: ICE)**  
*WP4 aims to deliver the core architecture for the iPRODUCE platform to support social manufacturing activities; deliver the platform architecture for social manufacturing; deliver data extraction and sharing functionalities with security and privacy aspects; specify and develop the Open Innovation marketplace, which addresses identified requirements and will be validated at collaborative demonstration facilities; deliver a training toolkit for co-creation and social manufacturing.*
- **WP5. Customer-Driven Production and Co-Creation Enabling Tools (Leader: FIT)**  
*WP5 aims to develop the technical and methodological tools that encourage multi-stakeholder co-creation processes and collaborative production engineering; develop and deploy a generative design platform as a social community; develop Augmented Reality and ubiquitous computing-based user interfaces and deliver an agile data analytics and visualisation suite; develop methods and tools for lifecycle management, recycling, repurposing and reusing; apply collaboration techniques in testing and training workshops.*
- **WP6. Social Media-Enriched Engagement Strategies for Makers and Consumer Communities (Leader: WR)**  
*WP6 aims to define the methodologies that will drive the engagement of makers and consumers towards the establishment of local ecosystems and MMCs communities, and to increase the community spirit and participatory design in the project; engage makers and consumers in “warm-up” activities to set up the local ecosystem and MMC communities; leverage early adopters of the iPRODUCE value proposition to turn them into project Ambassadors and to enlarge the project's communities; tap into the creativity and experience of citizens by collecting their innovative product ideas for innovation challenges.*
- **WP7. iPRODUCE Sharing Economy Business Models and Execution Tools (Leader: CBS)**  
*WP7 aims to develop new business models and IPR management strategies and tools to simplify and automate multi-stakeholder interactions.*
- **WP8: iPRODUCE Integrated Social Manufacturing Space (Leader: CERTH)**  
*WP8 aims to integrate and interconnect the project's technological and operational infrastructure and tools and establish operational readiness on behalf of the project consortium; deliver OpIS by integrating core services of the digital platform, co-creation enabling tools, training toolkit, social engagement app, and the IPR and transactions management automation framework; configure local instances of OpIS according to the characteristics of each cDMF, interconnecting them to establish the federated network; plan and execute thorough testing of the integrated solution, simultaneously training users with the operation of the overall solution.*
- **WP9: Validation, Demonstration & Evaluation of the iPRODUCE Social Manufacturing Space (Leader: AIDIMME)**  
*WP9 aims to define and implement the evaluation framework for the validation and demonstration of the iPRODUCE solution in the targeted pilot use cases; define the evaluation methodology and corresponding planning and metrics; offer iPRODUCE co-creation services to the MMC teams participating in open innovation missions; implement iPRODUCE pilots through open innovation missions/ challenges; demonstrate the value of the federated network of local ecosystems and cDMFs.*

- **WP10: Impact Creation (Leader: F6S)**

*WP10 aims to define the strategy for dissemination, communication and outreach, and to develop and execute tools and materials aligned with this strategy and stakeholders' interests; coordinate the activities of the project with those of other similar projects and initiatives to enable cooperation; organise dissemination events to engage stakeholders and showcase the project; develop a clear exploitation strategy, and map and assess alternative exploitation paths and sources of finance.*

## iPRODUCE cDMFs

### [cDMF SPAIN] Collaborative Engineering in Customer-Driven Home Furnishing Products

**Participating partners:** AIDIMME (cMDF), Lagrama (Manufacturer), VLC Fablab (Fablab)

The objective of this pilot is to enable collaborative engineering between the furniture manufacturing companies, the MDF and the FabLab jointly with the community of experts/makers, allowing them to develop customer-driven products with complex specifications that the furniture producer cannot tackle by themselves.

### [cDMF GERMANY] Open Consultation, Collaborative Product Development, Collaborative Learning

**Participating partners:** ZENIT (cMDF), Makerspace Bonn (Fablab), FIT (Research)

The objective of this pilot is to enhance the co-creation capacity of manufacturing SMEs for consumer product innovation, introduce SMEs to the Maker scene and capitalise the Fablab mentality and working processes.

### [cDMF FRANCE] Establishment of cMDF in French industrial ecosystem for developing collaborative projects in the automotive/ mobility area and associated consumer goods sectors

**Participating partners:** Materialia (cMDF), Excelcar (Fablab), FabLab-Vosges (Feblab)

The objective of this pilot is to accelerate, through co-design, co-creation and open-innovation methods and tools, the time to market and to develop new production processes adapted to rapid demand and technology evolutions.

### [cDMF ITALY] Collaborative manufacturing environment with cross-competences sharing for product development/ enhancement in the microelectronics consumer sector

**Participating partners:** Trentino Sviluppo (cMDF), Energy@Work (SME), FabLab-BITZ (Feblab)

The objective of this pilot is to enable collaborative engineering between the microelectronics manufacturing companies, the cMDF and the FabLabs, involving the community of experts/ makers, local start-ups and SMEs to address the development/ enhancement.

## [cDMF DENMARK] Establishment of a mobile BetaFactory Unit

**Participating partners:** BetaFactory (cMDF), CBS (Research)

The objective of this pilot is to deploy the Mobile Betafactory Unit in real case use scenarios in at least 10 Danish cities to evaluate the requirements for a sustainable long-lasting business case. The results will feed into how to best scale up the open innovation concept, to understand consumer market, to better cater to actual needs, as well as to understand how future trends impact the concept.

## [cDMF GREECE] Upgrade of the design of a 3D printed medical equipment including IoT sensors integration

**Participating partners:** OKthess – as associate partner (cMDF), AidPlex (SME)

The pilot objectives are to leverage expert opinion and experiential feedback to feed the design process supported by community makers and result in innovative medical equipment that outperforms current solutions in terms of comfort and efficiency offering patients a chance to increase their quality of life.

## RESOURCES & RESULTS

When clicking on menu item 'Resources & Results', jump to a page with 4 'boxes' with the following identifiers: Deliverables, Promotional Materials, Publications, Videos.

### Deliverables

### Promotional Materials

### Publications

### Videos

## NEWS

Clicking on the 'News' button takes user to the 'Project news' page.

### Project News

News items should appear in small boxes (e.g. 3 per column), with a short summary of the news piece and respective date. Clicking the news piece will take user to detailed news description.

### Newsletters

Once newsletters are developed, they should be automatically ordered from newest to oldest. Presentation can be in 'accordion' format (expand/close) or similar.

### Press releases

Once press releases are developed, they should be automatically ordered from newest to oldest. Presentation can be in 'accordion' format (expand/close) or similar.

## iPRODUCE in the news

Similar to the 'Project news': they should be automatically ordered from newest to oldest. Presentation can be in 'accordion' format (expand/close) or similar.

## EVENTS

Events should appear in small boxes (e.g. 3 per column), with a short summary of the event, including title, date and location. Clicking the event 'box' will take user to detailed event description.

## CONSORTIUM

The iPRODUCE consortium consists of 20 organisations from nine European countries.

### **AIDIMME - Instituto Tecnológico Metalmecánico, Mueble, Madera, Embalaje y Afines (SPAIN) [Coordinator]**

Spain

[www.aidimme.es](http://www.aidimme.es)

AIDIMME is the metal-processing, wood, furniture and packaging technology institute. AIDIMME is a non-for-profit association whose aim is to foster the competitiveness of its manufacturing SMEs through research and innovation activities. AIDIMME's key competences are in additive manufacturing; product development and optimization, industry 4.0, information and communication technologies; process management, sustainability and circular economy; advanced materials and products; modified surfaces; material's toxicity; biomaterials; packaging systems; socio-economic research and testing laboratories.

AIDIMME has a large experience in project coordination at regional, national and international level. In 2017, AIDIMME had more than 700 associated companies, 1,300 customer companies that received more than 5,400 different services (lab tests, advanced services, ad-hoc research, courses), and participated in 48 research projects.

The Information and Communication Technologies (ICT) Research Group together with the Processes Technologies Group will participate in iPRODUCE. The ICT group leads an initiative called funStep around the development of an ISO standard called 10303-236 "Industrial automation systems and integration – Product data representation and exchange – Part 236: Application Protocol: Furniture catalogue and interior design", developed by the funStep partnership involving industry consultation and discussions with research experts. The IT department mainly works on open-source solutions for solving interoperability problems for data product exchange between manufacturers and suppliers/retailers due to the complexity of product variability and variability of applications.

The Processes Technologies Group is working on the use of intelligent agent-based software to detect behaviour patterns and performing actions based on such conclusions. Currently, it is being applied to domestic environments in which embedded sensors are installed in furniture.

AIDIMME has research experience and knowledge in making furniture intelligent according to human behavior. Other research lines of the group consist of the assessment of the application of

reconfigurable manufacturing systems in traditional manufacturing industries, using configurable robotic manufacturing cells based on each product family.

AIDIMME has knowledge and experience about information and production systems used in furniture and metal manufacturing SMEs, as well as experience in integration and interoperability between heterogeneous systems, data, processes and system modelling. There are experts on Home Automation “sensing” furniture for detecting behaviors of the consumers in order to prevent accidents or alerting about different issues at home.

### **AIDPLEX GP (GREECE)**

Greece

<https://www.aidplex.com>

AidPlex GP is a HealthTech startup based in Greece. It was founded in 2018 and is located in Thessaloniki, Greece. The mission of AidPlex is to design and manufacture patient-centered orthopaedic products, providing patients a better and more eco-friendly treatment experience. AidPlex's vision is to integrate biometric sensors to daily life products and connecting them to Internet of Things (IoT).

AidPlex's products aim to provide advanced monitoring of vital indicators as well as daily activities. IoT plays an increasingly important role in the Medical Sector, leveraging data sourcing and analysis aiming at more personalised treatment practices. AidPlex was founded with the aim of offering advanced orthopaedics solutions powered by new advanced materials fitted with sensors and communications modules for the IoT era. AidPlex has participated successfully in a number of Entrepreneurial and Academic competitions. AidPlex took 1st Prize at the following Greek Startup Events and Competitions: Startup weekend Kavalas, Mindspace 2018, Ennovation Competition and Ecocity Forum by Thessaloniki Innovation Zone.

### **betaFACTORY IVS (DENMARK)**

Denmark

<http://betafactory.dk/>

betaFACTORY is a company in the BETALAB organisation. Other relevant companies in BETALAB for iPRODUCE include betaMACHINES, which focuses on turn key projects for establishing makerspaces or FabLabs i.e. shared workshop facilities. betaFACTORY has two makerspaces in Denmark focused on provided space, equipment and community to hobbyist, entrepreneurs, educational institutions and businesses. betaFACTORY aims to provide the best facilities to do prototyping work and small scale manufacturing and build on its knowhow from running community driven prototyping facilities a.k.a makerspaces or FabLab's. It also aims to extend its service offerings to those entrepreneurs who succeed with the prototypes and want to start manufacturing at a small scale while staying agile.

In connection to this ecosystem, BETALAB has its own industrial makerspace - betaFACTORY. It provides a larger setup of facilities and equipment in order to provide a scale up service where its members can manufacture small series of customised consumer products. The industrial scope is clear when we look at the amount of material turned into products each month. Here, members convert more than 15 tonnes of material into furniture each month in the wood workshop alone. The goal with betaFACTORY is to include all areas of society from hobbyists, educational institutions and companies in our vision for tomorrow's open manufacturing facilities.

### **Centre for Research and Technology Hellas (GREECE)**

Greece



<https://www.certh.gr/root.en.aspx>

The Centre for Research and Technology Hellas (CERTH), founded in 2000 and located in Thessaloniki is one of the largest research centres in Greece. Its mission is to promote the triplet Research – Development – Innovation by conducting high quality research and developing innovative products and services while building strong partnerships with industry and strategic collaborations with academia and other research and technology organisations in Greece and abroad.

CERTH consists of five Institutes and the Central Directorate and is governed by its Board of Directors. The institutes are: the Information Technologies Institute (ITI), the Chemical Process & Energy Resources Institute (CPERI), the Hellenic Institute of Transport (HIT), the Institute of Applied Biosciences (INAB), and the Institute of Bio-Economy and Agri-Technology (iBO).

With more than 800 people working at CERTH, the majority being scientists, CERTH is essentially a self-supported Research Centre generating an average annual turnover of ~ € 25 Million coming from: >30% from bilateral industrial research contracts, >60% from competitive research projects, and <10% as government institutional funding.

CERTH has received numerous awards and distinctions such as the European Descartes Prize, the European Research Council (ERC) Advanced Grant, Microsoft International Contest Prize, the Trading Agents Competition Award and many more and is listed among the Top-25 of the EU's Research Centres with the highest participation in H2020 competitive research grants.

CERTH has participated successfully in more than 1,200 competitive research projects (with a total budget exceeding 450 M€ and involving more than 1,100 international partner organisations) financed by the European Union (EU), leading industries from USA, Japan and Europe and the Greek Government via the General Secretariat of Research and Technology (GSRT).

CERTH's research results (more than 350 publications/year) have significant scientific impact (about 7,100 heterocitations/year).

Since 2003, CERTH has been appointed by the General Secretariat for Research and Technology (GSRT) as the coordinator of the Greek EURAXESS Network, a European initiative aiming at offering personalised assistance to mobile researchers. In 2008, CERTH was among the first Greek research organisations to undersign and accept the principles of the Charter and Code for researchers while at the same time CERTH's representatives were members of the Greek delegation at the Steering Group for Human Resources and Mobility (SG HRM). Its latest achievement in the field of human resources is the "HR EXCELLENCE IN RESEARCH" logo awarded by the EC in April 2012 as a proof that CERTH is committed to offer the best possible working conditions, regardless the socioeconomic environment, and at the same time work towards the realisation of the European Research Area (Innovation Union, Commitment #4). CERTH is involved in strong and long term collaborations with significant international partners.

## **Copenhagen Business School (DENMARK)**

Denmark

<https://www.cbs.dk/en>

Copenhagen Business School was established in 1917 by the Danish Society for the Advancement of Business Education and Research (FUHU). CBS is one of the world's leading business universities, ranking no. 10 in the world and no. 6 in Europe in Business & Management Studies (Quacquarelli Symonds). CBS has more than 20,000 students, 13,000 employees and offers a wide range of

undergraduate and graduate programmes within business, typically with an interdisciplinary and international focus. In partnership with more than 360 business schools and universities worldwide, CBS also offers an extensive international collaborative platform that greatly benefits this project.

iPRODUCE is anchored at the Sustainable Urbanisation Team at the Department for Management, Communication and Society (MSC). MSC addresses the role of business in society bringing together a number of connected themes and fields the researchers, MSC explores how globalisation changes and challenges management, organisations and governance across the boundaries of the local and the global and the private and public spheres. Central to this project, MSC focuses on institutions/organisations/networks; the state/a public sector organisation and its stakeholders, including citizens, users, consumers, customers, companies, investors, institutions and networks.

### **Energy@Work Società Cooperativa a R.L (ITALY)**

Italy

[www.energyatwork.it](http://www.energyatwork.it)

Energy@Work is an innovative non-profit start-up organisation founded in 2014 thanks to a public funding of €1,250,000 provided by the Italian Minister of University, Education and Research. It is located in Monopoli, Apulia, Italy. The main objectives of Energy@Work are the exploitation of researchers' activities, protecting national young excellences in research, and promoting technological research and innovation in its own territory and abroad. The scope of Energy@Work is to fill the existing gap between applied and industrial research, supporting partners during the development of high technological products or services, disseminating and validating results, promoting partnerships between public and private entities.

The members of E@W show off a wide and substantial experience in energy efficiency, ICT, automation and control, development of AI control algorithms able to interact with the field through multiprotocol interfaces enabling compliance with most of BMS and utilities. Their expertise ranges from the optimisation of energy consumptions in complex buildings through automated synergic management of HVAC, lighting, renewable and storage systems, to Demand Response forecast, profiling and segmentation and from solution to increase interoperability of the energy management systems with main building control and automation standards and proprietary protocols, to the development of gateways to enable the communication and control of legacy energy consuming and/or storing appliances.

### **European Dynamics Luxembourg SA (LUXEMBOURG)**

Luxembourg

[www.eurodyn.com](http://www.eurodyn.com)

European Dynamics (EDLUX) is a leading European software vendor and Information and Communication Technologies (ICT) services provider, operating internationally through its offices and antennas in Alicante, Athens, Berlin, Bonn, Brussels, Frankfurt, London, Luxembourg, Nicosia, Stockholm, Tunis, etc. The company designs, develops, supports and promotes software ICT applications using integrated, state-of-art technology to governments, public organizations and private enterprises in more than 27 countries in the world. Customers include government institutions, multinational corporations, public administrations and multinational companies, research and academic institutes.

EDLUX has an extended expertise in the areas of e-Government (they include Taxation, Customs, Statistics, Intellectual Property, Trade Marks, Patents, Pharmaceuticals, Health, Justice, etc.), e-Business, e-Procurement, e-Collaboration, groupware and workflow, content, document and

knowledge management, communications middleware, ICT security. Own software products and tools have been developed in these domains. All the products and services are offered for web, intranet and Internet environments and are based on open architectures and state-of-the-art technologies.

EDLUX supports open source software (OSS) initiatives and distributes a wide range of OSS solutions free of license fees. EDLUX is an ISO 9001:2008 and ISO 27001:2005 certified company and holds a NATO and EU security clearance (secret) EDLUX has expertise in the provision of SaaS, e-business (B2C, B2B, B2E, B2G, G2G, etc.), BroadBand Services, ecollaboration and workflow management, developing its own software applications and products, offered for web, Internet and portable devices, relying on open architectures. Its activities include the:

- Successful delivery of a large number of IT complex projects to international organisations, such as the European Parliament, the European Court of Auditors, Interpol, the European Environment Agency (EEA), the European Medicines Agency (EMA), the Office for the Harmonisation of the Internal Market (OHIM), the European Police Office (EUROPOL), the Publications Office of the European Union (POEU), the European Centre for the Development of Vocational Training (CEDEFOP), the European Chemicals Agency (ECHA), the European Centre for Disease Prevention and Control (ECDC) and national administrations in Austria, Cyprus, Germany, Finland, Belgium, Bulgaria, The Netherlands, Italy, Switzerland, etc.
- Design and implementation of integrated ICT systems, e-Records warehousing, web interfaces, semantic and ontology support, "Object oriented" and n-tiers architectures including web services, SOA, ESB, etc., software total quality management, information systems security audit & design.

### Excelcar (FRANCE)

France

<https://www.excelcar.org/>

Excelcar is an industrial FabLab/ an open innovation platform founded in 2015 by the automotive cluster iD4CAR, industrial companies, laboratories and technical centers. Excelcar's first goal is to accelerate time to market of product-process innovations in the automotive industry. To do this, the platform provides real estate resources (+ 2000m<sup>2</sup>), equipment (+ 3.2M€) and human resources (8 FTE). Today, Excelcar has allowed the launch and realisation of 40 projects.

Excelcar is connected to the FabLab communities on its territories, especially through cooperation with the FrenchTech makers' community. It is connected with startup and DIY through cooperative projects funded at national and regional level. Excelcar is closely linked with the automotive manufacturing and robotics industry, which are founding members of Excelcar.

### F6S Network Limited (UK)

UK

[www.f6s.com](http://www.f6s.com)

F6S Network Limited is an Irish entity (SME) that is the largest social network for Startups in the World. With over 3,000,000 profiles for the Startup/ SME community and more than 1,100,000 Startups, it currently supports the majority of the Startup/ SME ecosystem through deal flow/ applications, jobs listings, free services, communication forms, technology transfer infrastructure & other areas.

F6S is the leading platform for application management for commercial, corporate, government, university and other accelerator programs, helping more than 17.000 such initiatives worldwide. Every year F6S processes more than 700,000 applications and delivers about €2 billion to startups/SMEs per

year! F6S is best experienced in creating an effective recruitment campaign, targeting the right SMEs/Startups, disseminating the open call far and wide and managing the selection process of the applicants.

F6S is home to over a million tech founders, startups and has the resources and network to connect widely with accelerators, funds and investors and enable exposure and awareness on open innovation schemes and project's results. F6S has also experience in managing and implementing FP7 and H2020 project in entrepreneurship, investment readiness and other more specific areas.

## **FabLab Vosges (FRANCE)**

France

[www.fablab-vosges.fr](http://www.fablab-vosges.fr)

FabLab Vosges was established in 2014 by entrepreneurs that had needs of computer numerical controls machines, having decided to manage some hours for the public to come and get trained to use those machines. FabLab Vosges has currently around 50 members, including companies, makers, local university, and hobbyists. The main goal of the FabLab is the sharing of knowledge while guiding people through their projects. FabLab Vosges has three main technologies: milling machine, laser engraver and 3D printers.

The FabLab Vosges is based in a business incubator, known as "Pépinière d'entreprises de Saint-Dié-des-Vosges", in France. The FabLab's main role is to be an innovation place as well as a unique place for creation in the French department known as Vosges. This FabLab wants to follow a process of dynamism in the territory development, in the domains of technology and the Internet of Things (IoT).

FabLab Vosges, working together with the Pépinière d'entreprises de Saint-Dié-des-Vosges, is deploying the innovative technology of LoRaWan, with the objective to give access to this technology for the territory and let the entrepreneurs to try it out. The FabLab proudly counts on its partners, such as: Saint-Dié University, part of Lorraine Universities, Georges Baumont High school, the research and development facility of engineering of CIRTES, and others associations such as the school of second chance, based in Saint-Dié.

## **Fraunhofer FIT | Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V. (GERMANY)**

Germany

<https://www.fit.fraunhofer.de/en.html>

Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (Fraunhofer Society for the Advancement of Applied Research) is the leading organisation of institutes for applied research and development in Europe. Future-oriented strategic research is carried out with the aim of promoting innovations in key technologies with an economic and social relevance in the next five to ten years.

Working within the framework of the European Union's research and technological development programmes, Fraunhofer collaborates in industrial consortia on technical issues ultimately destined to improve the competitiveness of European industry. Fraunhofer is a major player in the European Research Area. It is an autonomous organisation with a decentralised organisational structure of 72 institutes, of which 15 institutes are dedicated to research in information and communication technology. The Fraunhofer Institutes network with other centres of excellence, and together help to assure the competitive strength of European research.

Fraunhofer Institute for Applied Information Technology (FIT) will participate in the project with an experienced and excellent team of researchers from the “User-Centred Computing” department (FIT-UCC). FIT is currently the most successful Institute within all Fraunhofer institutes in regard to European Projects. FIT-UCC is an interdisciplinary group of scientists, which has gained an internationally acknowledged reputation in the areas of Internet of Things, context-awareness, adaptive and personalized systems, mobile services, and usability engineering. The department has been making significant contributions to energy efficiency and smart grid research in Europe.

## **Information Catalyst for Enterprise (UK)**

UK

[www.informationcatalyst.com](http://www.informationcatalyst.com)

Information Catalyst (ICE) is a UK SME. Founded in the late 1990s, ICE started as a specialist consultancy assisting partners on commercial, RTD, software development and RDI activity. Its domain is sector generic but is orientated towards the business integration, decision support, data value and project management. ICE is an SME providing support and services to leading organisations such as TIE, Vintura, Riverland, EAN International, Offis, the European Standards Institute (CEN), Ascora, and the European Commission. Key ICE personnel have been active in multiple large-scale EU projects, including as coordinator, project manager and WP/Tasks leads. In addition ICE personnel have been active in multiple voluntary bodies; for example: Big Data Value Association (BDVA) where ICE's CEO was the inaugural Secretary General; SME Board member of the Networked Software and Service Initiative (NESSI) where it has also been Steering Committee vice-chair and is currently the SME lead; several standardisation initiatives in ISO and CEN/ISSS, such as ISO10303-236, eBiz-TCF, funStep, etc. ICE also has an affiliated entity, 99% owned, Information Catalyst SL (ICE-ES) based in Calp, Spain.

## **Lagrama, S.L. (SPAIN)**

Spain

[www.lagrama.es](http://www.lagrama.es)

Lagrama began its activity in 1982 and, since its foundation, has given its designs a strong distinctive character that has allowed it to stand out as a company with a solid identity in its products. LAGRAMA is a specialist in furniture and living room furniture and manufactures all products to furnish both rooms: cabinets, beds, bunk beds, desks, containers, shelves, etc. Lagrama has a network of commercial agents in Spain, Italy, France, Portugal, Russia and Switzerland. Customers in Israel, Turkey, Greece, Germany, Czech Republic, etc. The youth furniture market in Spain is estimated at € 300 million.

At the moment Lagrama is focused on five lines of products: youth bedrooms, wardrobes, bedrooms, sitting rooms and fold down bed systems. It has a utility model on a motorized system for fold down systems that it is implementing and has already been launched in the market, being a pioneer in this field. Lagrama has a showroom in its production plant where its clients can appreciate the quality of the products before being distributed among the shops.

## **MakerSpace Bonn e.V. (GERMANY)**

Germany

<https://makerspacebonn.de>

The MakerSpace Bonn is part of the global Maker community and movement. MakerSpace Bonn is a fab lab and innovation hub located in Bonn and open to all citizens. It is a place where one can come,

meet like-minded people, makers, experts, beginners, helpers, teachers and be creative, help oneself and create things that bring added value to the individual or the whole society.

## **Materialia (FRANCE)**

France

<https://www.materialia.fr/>

Materialia is a French competitiveness cluster leader for cooperative innovation in materials and processes founded in 2005. Materialia fosters and builds up collaborative and innovative projects bringing together companies, laboratories and higher education. It is based on the industrial and scientific skills of its members in materials and processes. Materialia focuses on the industrial markets of automotive, aeronautics, medical and energy and works on the challenges posed by the materials of tomorrow: greater efficiency, lighter materials, functionalities and sustainable development, and additive manufacturing. Materialia supports 12 national projects in the Region Grand Est that deals with additive manufacturing (four in the field of aeronautics, three in automotive and two in the medical field) and one European project.

## **Océano Naranja, S.L. (SPAIN)**

Spain

[www.oceanonaranja.com](http://www.oceanonaranja.com)

Océano Naranja is a Fab Lab (Fab Lab VLC) with more than 20 years specialisation in the production of models and prototypes. It has a digital creation and manufacturing space in the Alboraya industrial estate where almost anything can be done. FabLab VLC Océano Naranja continuously adapts new technologies (CNC machine as laser cutters, engravers, 3D printers, etc.) and is certificated as an official FabLab by the Massachusetts Institute of Technology (MIT).

Fab Lab VLC Océano Naranja was founded as a limited company in 2005 by Mario de Alfonso Ballester, a maquettist and designer with over 25 years experience. Océano Naranja has continuously adapted to new technologies and is today a modern company that makes permanent endeavours to improve the quality of its projects by bringing into its technical team all of the new developments in mechanical and/or computerised tools that appear on the market.

Océano Naranja is working hard to become an inseparable part of the museography of Spain and is being rewarded through many commissions in the sector and the large number of maquettes that the company has specifically designed and produced for museums and exhibitions. Witness to this are the contracts with General de Producciones y Diseño, Lunatus, Ypuntoending and Expociencia, among other museology-museography companiesContacts.

FabLab VLC Océano Naranja has machinery and resources to mechanize, assemble and finish prototypes, promoting the Do it Yourself (and Do it Together) philosophy and the maker culture, in order to reduce costs, share spaces, collaborate in projects and intervene in regulated and non-regulated training.

## **Siemens AG (GERMANY)**

Germany

<https://www.siemens.com/>

Siemens AG (headquartered in Berlin and Munich) is a global powerhouse in electronics and electrical engineering. Operating in the fields of automation, digitalization and electrification, Siemens holds



leading market positions in all its business areas. The company has roughly 343,000 employees – of which 115,000 or 33% are based in Germany – working to develop and manufacture products, design and install complex systems and projects, and tailor a wide range of solutions for individual requirements.

Innovation is Siemens' most important growth and productivity driver. In fiscal year 2014, the company invested €4.1 billion – 5.7 percent of its total revenue – in research and development (R&D) to stay at the forefront of technological progress. Today the company employs some 28,800 researchers and developers in around 30 countries, who work on innovations that secure existing business and open up new markets. The degree of innovation and the market success is significantly driven by software, being an inherent element of most of our products. This makes Siemens one of the world's largest software houses.

Apart from that Siemens is strongly engaging in sustainable solutions: In fiscal year 2013, Siemens' revenue from its Environmental Portfolio represented €32.3 billion and well over 40% of total revenue comprising products and solutions that contribute directly to environmental protection and climate change mitigation.

Collaborations are an indispensable mean of developing strategically important technologies. By discussing, sharing, and implementing ideas with scientists from outside the company, Siemens researchers keep abreast of the latest findings resulting from fundamental and applied research all over the world.

With over 7,100 employees worldwide, Corporate Technology (CT) plays a key role in R&D at Siemens. In 19 research centers, Corporate Technology works closely with the R&D teams in the Siemens' Divisions. Corporate Technology is networked to facilitate efficient collaboration between its various sites around the world and with the rest of the Company. Its principal research operations are in close proximity to worldwide business activities and technology hotspots: Germany, the U.S., Austria, Russia, India, China, Japan and Singapore are among the most important sites. Establishing own research centers is combined with an intensive cooperation with top universities. This allows responding quickly and precisely to the demands of the customers and to provide solutions that meet local needs. Per year, around 1,000 collaborations are run by/with CT.

## Trentino Sviluppo SPA (ITALY)

Italy

<https://www.trentinosviluppo.it>

Trentino Sviluppo is a company established by the Autonomous Province of Trento to foster the sustainable growth of the "Trentino system" by developing actions and services aimed at supporting the creation of new entrepreneurial and innovation projects. In particular, Trentino Sviluppo represents the reference point for the enterprises willing to operate in Trentino.

Trentino Sviluppo accompanies enterprises at all stages in the process leading to their establishment. For example, it helps them search for skilled workforce, get in touch with research institutions, identify the most suitable areas and venues, engage with the public administration in order to get a licence or a permit, get access to credit or apply for a grant. Even fully-fledged enterprises are supported in the development of new projects, both in terms of research and the technological and organisational development. Trentino Sviluppo's action mainly targets enterprises and, in particular, it focuses on: new enterprises; internationalisation; support to corporate structuring; projects for financial consolidation aimed at specific development projects.

## White Research SPRL (BELGIUM)

Belgium

<https://white-research.eu/>

White Research (WR) is a social research SME specialising in consumer behavior, market analysis, and innovation management in key sectors including Energy, Health, Transport, Circular and Smart Cities as well as in other related sectors and sub-fields. The company addresses business strategy, policy, market and user related issues through an array of diverse analytic tools. More specifically, WR mines and interprets hard-to-grasp consumer insights through a combination of modern analytics and marketing research and evaluation methods.

WR specialises in the design and implementation of stakeholder engagement strategies. The company follows a structured approach to mapping, benchmarking and clustering stakeholder groups for effectively reaching out to targeted and general audiences through tailored engagement strategies. Moreover, WR possesses valuable know-how and expertise in offering business support and innovation management services, with a keen eye on social innovation and entrepreneurship.

WR employs business modelling and planning, market analysis and risk analysis techniques to support the commercial exploitation and market uptake of research results and innovations. Through its core staff, WR has access to a wide-ranging expertise and significant experience in translating multi-source asymmetric information and complicated analytics into realistic policy and business recommendations, thus enabling a hybrid Marketing Research - Management Consulting model.

WR staff hold extensive experience in the participation in EU-funded research projects, since they have been involved in more than 35 EU-funded projects the last 15 years acting as Coordinators, Dissemination Managers, Innovation and Exploitation Managers, Advisors and Certified Trainers in the field. In addition, they have been involved in designing and implementing multiple stakeholder engagement campaigns and international dissemination campaigns, and as such, retain strong linkages to several EU-related networks, including industry and civil society groups.

## ZENIT | Centre for Innovation and Technology (GERMANY)

Germany

[www.zenit.de](http://www.zenit.de)

ZENIT GmbH, founded in 1984, is a Public Private Partnership with around 60 employees, working in interdisciplinary teams. The stakeholders are the State of North Rhine-Westphalia (represented by the ministry of economics), a consortium of banks and an association comprising of approximately 180 enterprises, the ZENIT e.V.

On behalf of the EU, national and regional bodies, ZENIT provides services for the benefit of companies, especially small and medium-sized enterprises, as well as universities and research institutions. The services provided are among others innovation and technology consultancy, internationalisation and policy consultancy. On behalf of clients, ZENIT checks whether R&D projects are eligible for funding, advises on suitable programmes, helps in project planning, and assists in formulating applications and in project implementation.

Since 1995 ZENIT is engaged in European projects in the area of technology transfer and innovation. One of the biggest projects is the Enterprise Europe Network (started in 2008). In this framework, ZENIT supports its clients (SMEs, universities and research institutes) in several disciplines, like technology transfer, internationalisation, brokerage events, and innovation management consultancy. ZENIT works



closely with technology driven SMEs, scale ups and spin-offs to realize its tasks within various regional and EU projects on transfer and innovation.

## **FOOTER**

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