



iPRODUCE competition for open and collaborative innovation |
iPRODUCE My Mobility
Specifications

Materialia – Fablab Vosges – Excelcar –

iD4CAR – Quest for Change – CESI – ID COMPOSITE



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iPRODUCE competition for open and collaborative innovation | iPRODUCE My Mobility

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1 - Introduction and background

Introduction

Within the framework of the European project iPRODUCE, which aims to support project creators and companies in prototyping activities and initial prototype testing, a competition is being organised. This competition will award 3 participants with complete support, including coaching, access to prototyping facilities in an industrial Fablab, test sites and testers,

The objectives of the competition are:

To help you with “**collaborative innovation** ”: to help you design and test your idea and product with experts in the field and future informed customers, and to provide you with early feedback to better target your innovation and its future market.

The platform iPRODUCE and the network of French partners from the project will support the winners and offer them prototyping equipment and advice from experts and users.

To help you plan the development of your project from the ideation and prototyping phase to a first pre-product, by accompanying you throughout these stages.

Winners will benefit from access to equipment, office space, testing facilities, meeting rooms and coaching . Full-scale tests will also be organised with the winners.

In a few words: don't miss the target, save time, communicate!

1 - Introduction and background

Is this competition for me?

WHO?

The competition is open to any project in the area of mobility, provided that it includes a significant part of physical design involving materials, hardware and manufacturing processes.

The project can be led by a student, an individual, a start-up or a SME, ideally based in France. They must be of legal age (over 18 years old) if they are a student or an individual.

WHAT?

Submissions to the competition must be mobility projects (electromobility, micro-mobility, soft mobility, or related products), involving the development of a physical part or product. Software development activities are not excluded but can only represent a limited part of the project.

The submitted project must be aimed primarily at the general public. It may cover all or only a part of the full project.

The level of maturity of the project must be between the idea and the experimentation of the prototype, the project must be in the development phase. The phases that can be supported through this competition are: ideation, structuring, design, prototyping, experimentation.

The project must be scheduled to start between April and May 2022. The support provided by the French partners in the framework of the competition will end on 31st December 2022 at the latest.

1 - Introduction and background

Is this competition for me?

WHY?

In the framework of the competition, the winning candidates will get several rewards:

- 1 year of iD4CAR membership or 1 year of Materialia membership
- 3 days of project coaching by Quest for Change, covering for example the following topics :
 - Day 1: Work on the business opportunity and value proposition; Basis for market & competitive analysis
 - Day 2: Business model; Business assumptions
 - Day 3: Project industrialisation steps
- Co-design of the digital model with a CAD expert dedicated to your product for 5 days
- Access to the design and prototyping resources of the Excelcar & Fablab Vosges industrial Fablab for 3 months
- Training in the use of prototyping facilities within Excelcar & Fablab Vosges
- Financing of consumables and materials dedicated to the prototyping of your product up to 3 k€ per project
- Organization of experimentation sessions (depending on the maturity of the project)
- Invitation to an event during the year dedicated to the incubates of Quest for change (invitation to a trade fair, webinar, ...)

In return, the winning candidates commit to using the support and services in the development of their product from the idea to the testing of the prototype. They also commit to test the iPRODUCE tools, as well as to fill in evaluation and feedback forms.

1 - Introduction and background

What is the iPRODUCE project?

iPRODUCE is a 3-year European project, launched in January 2020. It brings together 9 countries and 21 European partners.

It aims to create a digital platform and tools following the concept of Social Manufacturing*.

The challenges of the project

- Create an ecosystem at European and local level, bringing together actors with complementary means and skills around common projects.
- Democratize the concept of Social Manufacturing and promote co-creation methods to develop new products and services, including the end user at the heart of development.
- Facilitate exchanges and knowledge sharing through the development of the digital platform and iPRODUCE tools.

The objectives of the project

- Bringing together industrial entrepreneurs, fablab and maker communities and consumers at the local level
- Engage these actors in common challenges of open innovation and co-creation of products
- Share practices, methods and tools to learn, design and produce new products

The cMDF

Open innovation and co-creation activities are carried out in six pilot cMDF* located in different countries: France, Spain, Italy, Denmark, Germany and Greece.

These cMDF, including demonstration ground of collaborative manufacturing, are led by 3 or 4 actors per country and address themes targeted according to the country, including furniture, mobility, medical, electronics and microelectronics.

Their objective is to experiment with the methodologies developed and set up the tools of the platform in the context of projects involving actors of different kinds at the local level (Fablabs, makers, technical centers, competitiveness clusters, startups, SMEs, industrialists, users, general public)

***Social Manufacturing:** Practice with the objective of bringing together actors of different kinds – companies, fablabs, the general public,... - in the co-creation of their products.

***cMDF:** common manufacturing demonstration facilities

1 - Introduction and background

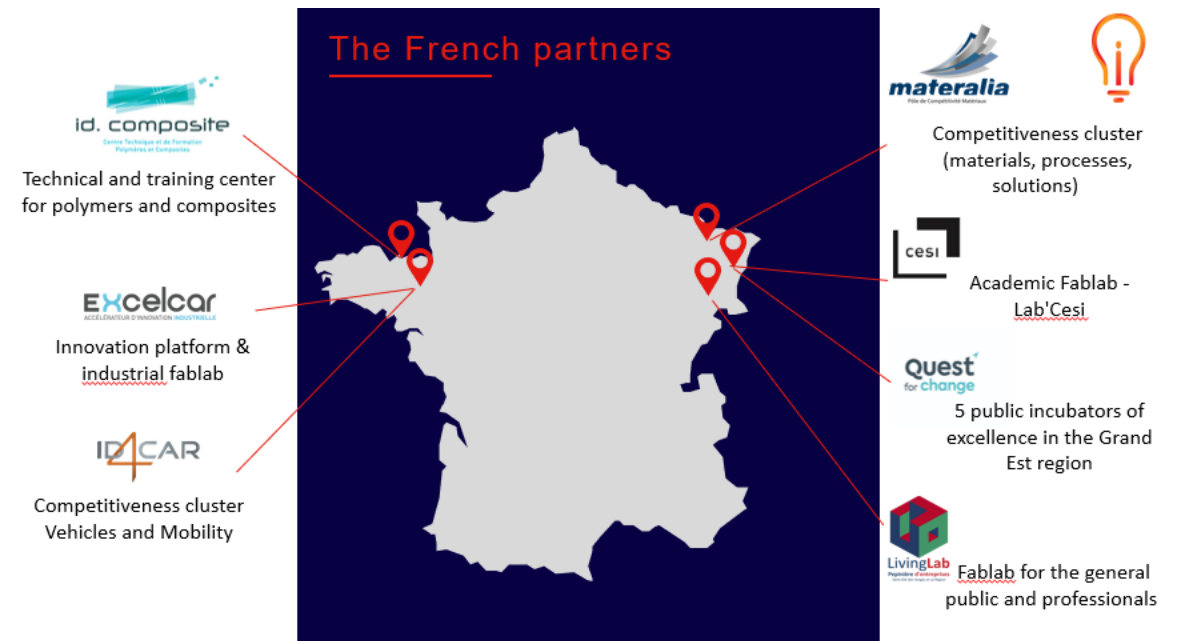
Who animates and federates iPRODUCE on a French scale?

The French cMDF is led by 3 partners of the iPRODUCE project:

- **Materialia** - Competitiveness cluster for materials, processes and solutions
- **Fablab des Vosges** – Fablab, livinglab and company nursery
- **Excelcar** – Industrial Fablab and collaborative innovation platform

As part of their activities at the French level, these 3 partners have formed a network of actors in order to strengthen the skills necessary to carry out activities on the territory on 2 use cases.

Thus, various players such as incubators, clusters, technical centers and fablabs among which: **ID4CAR**, **Quest for change**, **ID COMPOSITE**, **Lab'CESI** - have joined the network to promote iPRODUCE and its solutions.



1 - Introduction and background

What are the activities and objectives of the French iPRODUCE partners?

The common ambition of the French cMDF is to set up services and solutions to facilitate the development of new products, more particularly in the mobility sector.

To do this, the partners defined 2 use cases in order to experiment and apply the resources generated in the project. As part of the iPRODUCE project, our goal is to help fablabs digitize their training content, and to promote the co-development and co-creation of mobility products or associated products.

1 – Digitize training content

The objective of use cases is to set up methodologies and tools to facilitate the digitization of training content; more particularly about the means dedicated to design and prototyping implemented in collaborative manufacturing spaces.

The solution will be deployed in the first quarter of 2022 in cMDF fablabs as well as fablabs wishing to experiment with the solution.

2 – Co-development of new mobility products

The objective of this use case is to deploy a global solution to support a mobility project leader from the idea to the industrialization of his product using collaborative methods.



2 – The objectives of the competition

The objectives of the competition are:

To **help you** with “**collaborative innovation**”: to help you design and test your idea and product with experts in the field and future informed customers, and to provide you with early feedback to better target your innovation and its future market.

The platform iPRODUCE and the network of French partners from the project will support the winners and offer them prototyping equipment and advice from experts and users.

To **help you plan the development of your project** from the ideation and prototyping phase to a first pre-product, by accompanying you throughout these stages.

Winners will benefit from access to equipment, office space, testing facilities, meeting rooms and coaching . Full-scale tests will also be organised with the winners.

In a few words: don't miss the target, save time, communicate!

What types of projects?

- This AAP aims to accompany and provide support to any project leader who wishes to develop a product related to the mobility sector.
- The proposed project must focus on hardware (physical) components, the software is not excluded but it must not constitute the essence of the project. The project presented must be addressed primarily to the general public. The file submitted may relate to all or part of the project.
- The project must be scheduled to start between April and May 2022, and may evolve one or more partners.
- The actors of the iPRODUCE project are mainly located in the North-East and North-West of France, however the location of the bearer is not a selection criterion.
- Submitted projects can start at different stages of maturity, but it will still be necessary to be in the development phase. The phases that can be processed via this AAP are: ideation, structuring, design, prototyping, experimentation.
- The support provided by the French partners in the framework of the competition will end on 31st December 2022 at the latest.

4 - Support provided

What are the winnings and rewards for and by the winning candidates?

Candidate's rewards:

- 1 year of **iD4CAR** membership or 1 year of **Materialia** membership
- 3 days of project coaching by **Quest for Change**, covering for example the following topics :
 - Day 1: Work on the business opportunity and value proposition; Basis for market & competitive analysis
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 - Day 3: Project industrialisation steps
- Co-design of the digital model, a CAD expert dedicated to your product for 5 days
- Access to the design and prototyping resources of the **Excelcar & Fablab Vosges** industrial Fablab for 3 months
- Training in the use of prototyping facilities within **Excelcar & Fablab Vosges**
- Financing of consumables and materials dedicated to the prototyping of your product up to 3 k€ per project
- Organization of experimentation sessions (depending on the maturity of the project)
- Invitation to an event during the year dedicated to the incubates of **Quest for change** (invitation to a trade fair, webinar, ...)

Candidate's counterparts:

- The candidate(s) commit(s) to test the iPRODUCE tools, as well as to fill in evaluation and feedback forms.
- The candidate(s) commit(s) to using the support and services in the development of their product from the idea to the testing of the prototype

Which projects are eligible?

- Mobility projects (electromobility, micromobility, soft mobility, or related products), involving the development of a physical part or product
- The level of maturity of the project must be between the idea and the experimentation of the prototype
- The project is due to start between April and May 2022 – Prototype experimentation ideally at the end of September 2022

Who are the eligible project leaders?

- Over 18 years old
- Company (SME, start-up,...), student, individual ; ideally based in France

6 – Application and selection process

How to submit your project?

2 possible methods to apply:

- The application file completed and sent to *jeremy.keller@materalia.fr*
- The completed online application form

Who evaluates your project?

The jury will be composed of the French iPRODUCE partners (Materalia, Excelcar, Fablab Vosges, iD4CAR, Quest for change,...)

How many projects are selected?

Number of winners: 3

What is the period and deadline for submitting the application?

Your application must be duly completed and sent to jeremy.keller@materalia.fr with the subject “iPRODUCE competition | iPRODUCE My Mobility” (or via the [online form](#)) by 25th March 2022 at the latest.

When will the results of the competition be released?

The winners of the competition will be deliberated by the jury on 31st March 2022,
Results will be announced on 2nd April 2022 and published on the French partners websites and the iPRODUCE project website. All candidates will be informed via e-mail of their result.

When should projects be started/completed?

The project must be scheduled to start between April and May 2022.

The support provided by the French partners in the framework of the competition will end on 31st December 2022 at the latest.



Jérémy Keller

iPRODUCE French Network Referent

Jeremy.keller@materalia.fr



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