



A Social Manufacturing Framework for Streamlined Multi-stakeholder Open Innovation Missions in Consumer Goods Sectors



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Context





SOCIAL MANUFACTURING FRAMEWORK

iPRODUCE will introduce and define a **social manufacturing framework (SMF)** to support **open innovation** and **co-creation activities** for the design, engineering and production of **consumer goods**.



LOCAL & EUROPEAN ENGAGEMENT

The SMF aims to **engage** manufacturing **enterprises** (SMEs and/or mid-caps); **makers** communities (fab labs, makerspaces and start-up communities); and **consumers**. These stakeholder groups (MMCs) will participate in co-creation missions driven by **consumer needs**.



COLLABORATIVE MANUFACTURING DEMONSTRATION FACILITIES

The SMF aims to **connect** micro-manufacturing and other existing **facilities** at the local level, organising them into **collaborative Manufacturing Demonstration Facilities (cMDFs)** that represent the infrastructure through which **social manufacturing ecosystems** will implement its innovative activities.



01

CONNECTING

Bring closer manufacturers, makers and consumer communities (MMCs) at the local level.



02

ENGAGING

Engage MMCs in joint co-creation challenges for the manufacturing of new consumer products and the introduction of novel production (eco)systems.



03

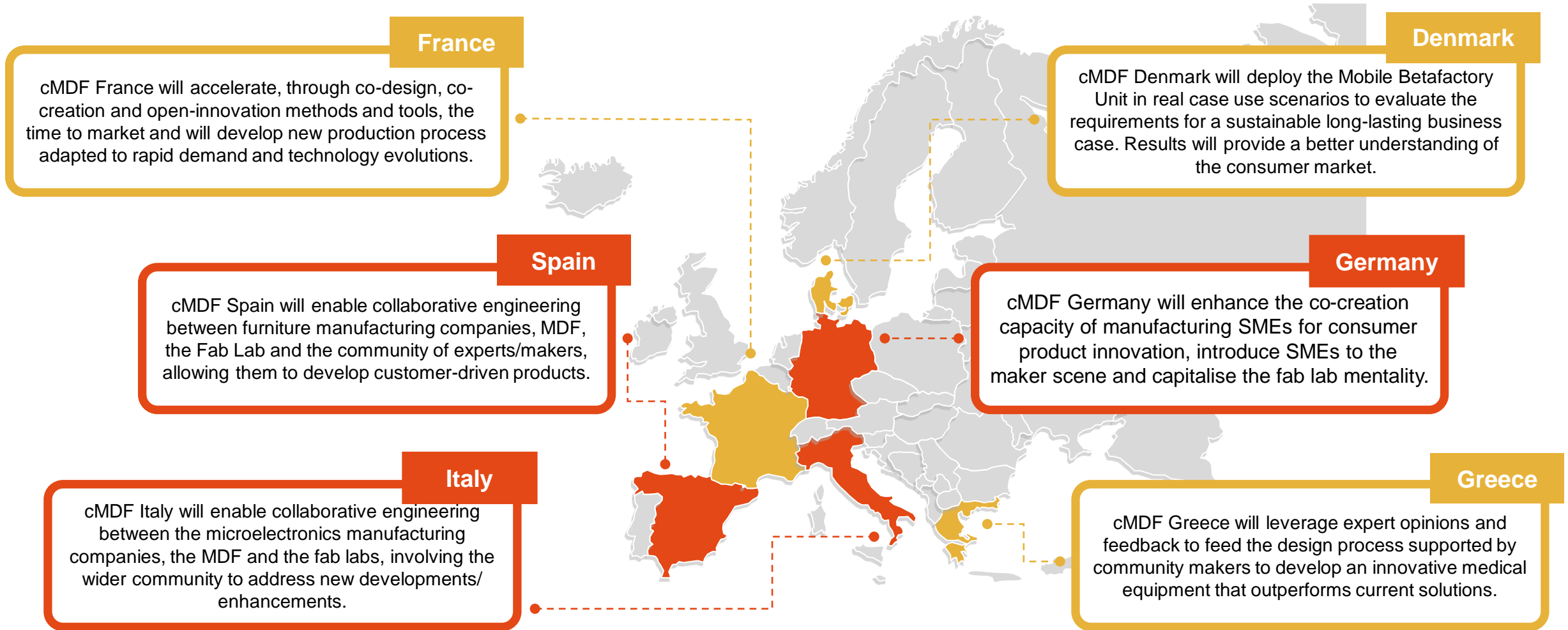
COMBINING

Combine practices, methods and tools both makers and manufacturing companies (specifically SMEs) are employing.



iPRODUCE

Collaborative Manufacturing Demonstration Facilities (cMDF)



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Open Innovation Space (OpIS) platform

The platform will provide an open access knowledgebase and integrated tools for matchmaking, knowledge sharing and a marketplace for open innovation.

Digital space for social manufacturing

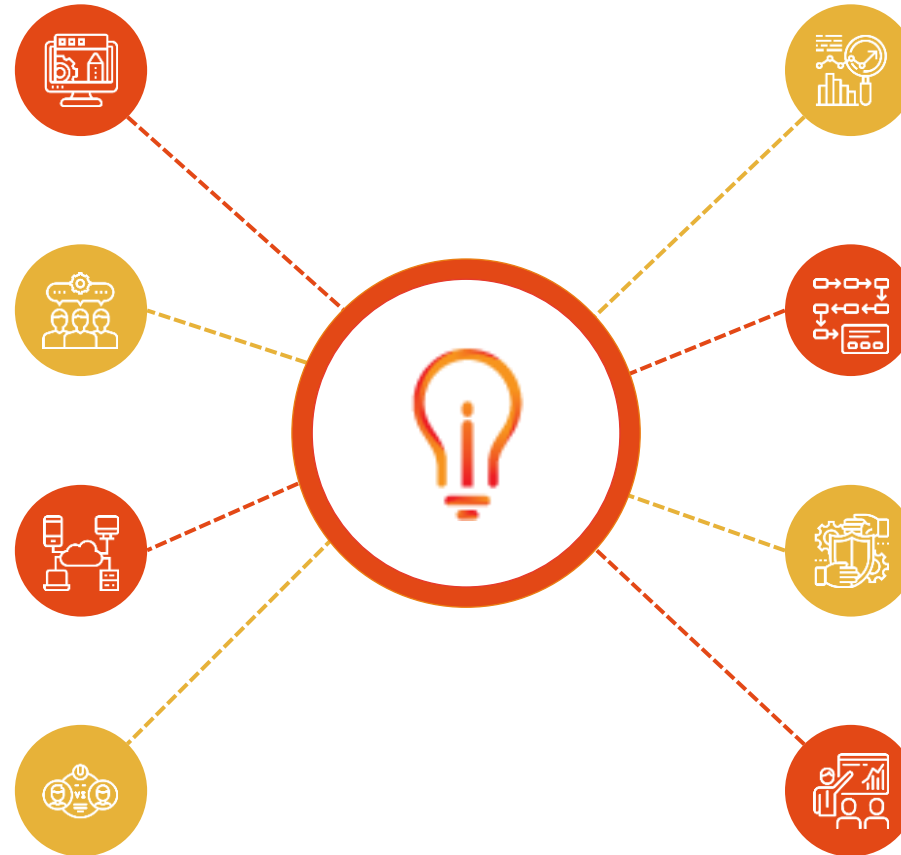
The digital space will enable synchronous collaborative interactions between MMCs under the iPRODUCE Open Innovations (OI) challenges.

Digital Fab lab

iPRODUCE will collect patterns (e.g. 3D designs) in a knowledgebase for reuse or extension.

Lead users' identification

Identification will allow producers to identify lead user innovators that match their specific OI needs (e.g. in co-creating innovative consumer products).



Advanced data analytics

An integrated agile analytics and visualisation suite will provide product, process, market and consumer insight.

Engineering workflow

Verification tool that will be supported by a knowledgebase and continuous feedback mechanism; toolkit will provide risk assessment and management support.

IPR and transaction management

Tokenised collaborative-work and Ricardian contracts will stimulate and streamline collaboration and provide trust guarantees, helping to mobilise and engage users.

Training toolkit and open access courses

The iPRODUCE platform will provide digital space for online training sessions/ workshops, including interactive animated tutorials.

20 partners
from
9 European countries





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