

**28<sup>TH</sup> INTERNATIONAL CONFERENCE ON ENGINEERING,  
TECHNOLOGY AND INNOVATION (ICE/ITMC) &**

**31<sup>ST</sup> INTERNATIONAL ASSOCIATION FOR MANAGEMENT OF  
TECHNOLOGY (IAMOT) JOINT CONFERENCE ©**



**TECHNOLOGY, ENGINEERING, AND  
INNOVATION MANAGEMENT COMMUNITIES  
AS ENABLERS FOR SOCIAL-ECOLOGICAL TRANSITIONS**

**JUNE 19-23, 2022  
NANCY, FRANCE**

<https://ice-iamot-2022-conference.org/>



## General presentation

- Highlights
- Keynote speakers
- Special sessions and round tables
- European projects
- Practical advice & social events

<https://ice-iamot-2022-conference.org/>

<https://www.conftool.pro/ice-iamot-2022>

Version: 22/07/2022

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2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) & 31st International Association For Management of Technology (IAMOT) Joint Conference ©

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## 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions



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## General IEEE Conference Chairs:

- **Pr. Laure MOREL**, Université de Lorraine-ENSGSI, France
- **Pr. Mauricio CAMARGO**, Université de Lorraine-ERPI, France
- **Dr. Laurent DUPONT**, Université de Lorraine-ERPI, France

## IEEE Conference Co-chairs:

- Pr. Yacine REZGUI, Cardiff University, UK (organizer of ICE 2021)
- Dr. Thomas BEACH, Cardiff University, UK (organizer of ICE 2021)
- Pr. Leon PRETORIUS, University of Pretoria, SA (organizer of IAMOT 2021)
- Pr. Tarek KHALIL, Nile University, Egypt (organizer of IAMOT 2021)
- Pr. James FLECK, The University of Edinburgh, UK (organizer of ICE 2023)

## IEEE Conference Review Chairs:

- Dr. Marc PALLOT, Nottingham University Business School, UK
- Dr. Giovanny ARBELAEZ, Université de Lorraine-ERPI, France

## IEEE Representative

- Robert E. BIERWOLF, IEEE TEMS and CeTIM, The Netherlands (IEEE Officer)

## Local IEEE Conference organizing committee:

- Dr. Fabio CRUZ SANCHEZ, Université de Lorraine-ERPI, France
- Dr. Alex GABRIEL, Université de Lorraine-ERPI, France
- Dr. Manon ENJOLRAS, Université de Lorraine-ERPI, France
- Dr. Fedoua KASMI, Université de Lorraine-ERPI, France

## General NITIM Chairs (June 16-18):

- Pr. Roland ORTT, TU Delft University, NE
- Pr. Stefan KLEIN, Munster University, DE

## NITIM Local PhD students Committee:

- Diana CARDENAS, Université de Lorraine-ERPI, France
- Fanny PRUVOT, Université de Lorraine-ERPI, France
- Guillaume PRONOST, Université de Lorraine-ERPI, France
- Catalina SUESCUN, Université de Lorraine-ERPI, France



## Seminar of the doctoral school SIMPEE (June 20):

- Pr. Christine GERARDIN, Université de Lorraine-LERMAB, France
- Pr. Davy MONTICOLO, Université de Lorraine-ERPI, France
- Dr. Fatima Ezzahra HAMDANI, Université de Lorraine-ERPI, France
- Dr. Barbara MOISSA, Université de Lorraine-ERPI, France



# Main conference themes

Technology, Engineering, and Innovation Management Communities  
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- R&D, Innovation and Entrepreneurship
- Corporate Venturing & Digital Entrepreneurship
- Intrapreneurship Strategy and Process
- Technology Foresight and Forecasting
- Service Design and Engineering
- Industry 4.0 : Digital Innovation management and applications of AI
- Responsible research and innovation
- Innovation on Education and Learning
- Human, Socio-Economic and Culture Issues
- Green Tech and New business model for Sustainability and Resilience



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# Overview

Venue	Venue Centre Prouvé Auditorium 300 + rooms	Venue Centre Prouvé Auditorium 800 + rooms	Venue Centre Prouvé Auditorium 300 + rooms	& Octroi Nancy	LF2L – Octroi Nancy
	Monday 20 June	Tuesday 21 June	Wed. 22 June		Thurs. 23 June
8:30	8:00 – 9:00 registration	8:00 registration	8:30 registration		
A-M	9:00 Welcome + Keynote speakers	8:30 - KS  Parallel Papers sessions*	9:00 - EU projects RT		9:30 workshop + Networking With EU project at Octroi Nancy
12:30	Parallel Papers sessions*		Parallel EU projects WS + Paper sessions		11:00-12h30 Closing 11:30 Hélène Boulanger, présidente de l'Université de Lorraine
13:30	12:30-13:30 Lunch	12:30-13:30 Lunch	12:30-13:30 Lunch		
P-M	KS	KS  Parallel sessions + Serious game “année de innovation”	EU projects WS HyValue Climate Labs	EU projects Demonstrator at Octroi Nancy: innovative design factory	* <a href="https://www.confotool.pro/ice-iamot-2022">https://www.confotool.pro/ice-iamot-2022</a> (see the papers)
18:00	Parallel Papers sessions*	RT: Editors			KS: Keynote Speaker RT: Round Table WS: Workshop
19:00	Musée des Beaux-Arts 19:00 - Visit 20:30 – Welcome cocktail	“Fête de la musique” Free time (No Dinner)	City Hall - Place Stanislas 19:45 Gala dinner 22:45 – Sound-and-light show		Hybrid / streaming



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# Monday 20 June



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# Plenary01: Opening session & Keynote speakers 1&2

Opening session:

- **Laure MOREL, Mauricio CAMARGO, Laurent DUPONT** Welcome address by the general chairs of the ICE-IAMOT conference
- **Karl TOMBRE** - Vice-president for European and International Strategy at Université de Lorraine, Executive director of LUE initiative

Keynote speakers:

- **Osman AHMED** (Pacific Northwest National Laboratory, USA) - "Digitalization, De-carbonization, and Innovation"- What we need for a Sustainable Planet
- **Dominique JOLLY** - China's Rapid Technological Transformation: Good news for Ecological Transition?



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# ICE-IAMOT 2022 - Keys data

473 registered participants / 3 events:

**NITIM** doctoral School (June 16-18) & **ICE-IAMOT** (20-23 June) & **SIMPEE** Doctoral Seminar (June 20)

190 accepted papers for presentation (184 presented - 242 contributions submitted)

481 Authors from 38 countries

223 Reviewers from 39 countries (729 reviews assigned)

A large international audience on Management on technology, engineering and Innovation with 45 nationality.

7 European Projects - 2 special days



INEDIT  
open Innovation Ecosystems  
for Do It Together process

OPEN!  
NEXT!

PRODUCE

DigiTeRRI

Climate  
Labs

HyValue  
Hybridisierung in der Value Chain

1 scientific exhibition in Living Lab mode at L'Octroi Nancy, the creative and citizen Third-place, Nancy, France.

4D LORRAINE FAB  
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Green FAB LAB

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# Osman AHMED

Keynote speaker - *Monday 20 June*



Dr. Osman is a Principal Technical Advisor at Pacific Northwest National Laboratory (PNNL), a national research laboratory operated by the Department of Energy, USA. Prior to PNNL, he served at Siemens for about 28 years assuming various technical and leadership positions.

President of IAMOT



“Digitalization, De-carbonization, and Innovation”- What we need for a Sustainable Planet



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# Dominique JOLLY

Keynote speaker - *Monday 20 June*



Dominique Jolly is an independent advisor on foreign business with China. He works as a consultant for several large companies. He also advises international organizations and foreign governments in the areas of innovation and technology.

His assignments have taken him to over twenty countries in Europe, Asia, North America, South America and Africa. He was previously Professor of Business Strategy. He worked for Webster University Geneva (Switzerland), SKEMA Business School (Sophia-Antipolis, France), the Center on China Innovation at CEIBS (Shanghai, China), HEC Montréal (Montréal, Canada) and Grenoble Ecole de Management (Grenoble, France).

## China's Rapid Technological Transformation: Good news for Ecological Transition?



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# Alice DE CASANOVE

Keynote speaker - *Monday 20 June*



Dr. De Casanove is Director of Culture Evolution & intrapreneurship . She is in charge of innovation competencies and learning in Airbus Defense and space. Washington D.C.



She plays a pivoting role in the publication of the ISO referential on good practices in innovation management (ISO 56000 series). Between 2013 and 2022, she was the ISO chair of the international standardization committee on Innovation Management gathering 50+ countries in close coordination with WTO, OECD, WIPO and World Bank. She is an Associated Researcher at the ERPI Lab

## Return of experience regarding Innovation management ISO 56000 series: Implementation in a large organization



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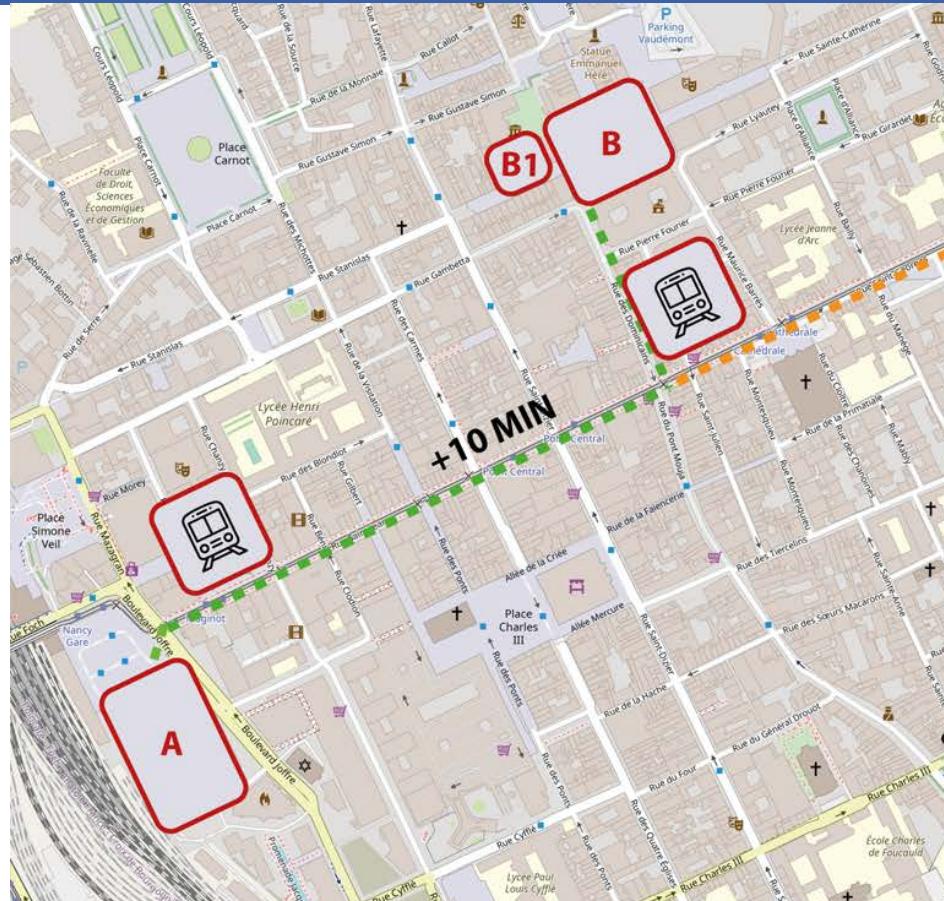


# Social Event: Visit & Welcoming Cocktail Musée des Beaux-Arts, place Stanislas



19:00 - 20:30 - Visit Musée des Beaux-Art Nancy  
Guided tours will start at 19:00  
(please arrive few minutes before)

20:30 - 21:45 - Welcome speeches by the IAMOT and ICE Presidents / representatives & Cocktail



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# Tuesday 21 June



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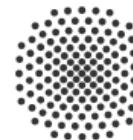
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# Alex BREM

Keynote speaker - *Tuesday 21 June*



Prof. Dr. Alexander Brem  
Institute of Entrepreneurship and Innovation Science  
Chair of Entrepreneurship in Technology and Digitization,  
endowed by the Daimler Fund in the Stifterverband



University of Stuttgart

## Frugal Innovation: Constraint-based thinking as a solution for sustainability?



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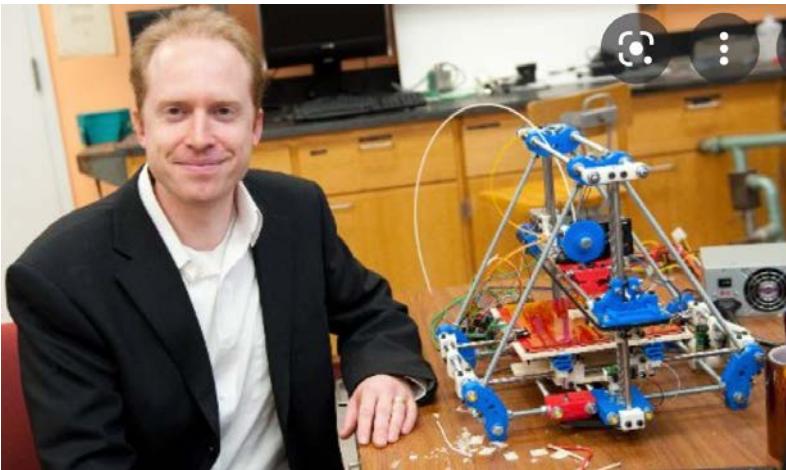
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# Joshua M. PEARCE

Keynote speaker - *Tuesday 21 June*



Dr. Pearce is the John M. Thompson Chair in Information Technology and Innovation at the Thompson Centre for Engineering Leadership & Innovation  
Director of the Free Appropriate Sustainability Technology (FAST) Lab  
Prof@Lorraine, Permanent visiting professor at the ERPI Lab



Open-source appropriate technology (OSAT) :  
Finding collaborative solutions to problems in sustainability and poverty reduction



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# Session RT - 01

## Innovation in public Administration

TUESDAY, JUNE 21 - 2:30-4:00 P.M.

Round table with:

Deputy Mayor (City of Nancy), SME (NOREMAT), Departmental Fire and Emergency Service (SDIS 57) and Academics (ERPI, UL)

Supported by the City of Nancy, Territoria and RNI



Session Chair: **Vincent BOLY**, Université de Lorraine - ERPI, France  
Session Chair: **Fedoua KASMI**, Université de Lorraine - ERPI/RNI; France

Location: **Auditorium 300 - Centre Prouvé**  
Congress Center Centre Prouvé - 1st Floor Main room (300 seats)



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# Program

## **02:30 - 4:00 P.M. Session: Innovation in public Administration**

**Presentations (15 min) and Q&A (5 min)**

**Laurent Watrin**, Deputy of the City of Nancy in charge of cooperative democracy, innovation of public policies and digital city - *Innovation strategy and process of a large agglomeration.*

**Mitra Tehranchi**, Project manager at Noremat, pilot of collaborative innovation actions with territorial administrations - *The public-private link in innovation*

**Emilie Schwartz : SDIS 57** – Departmental Fire and Emergency Service: *how are innovation processes organized in an emergency-oriented public service?*

**Manon Enjolras**, Associate Professor at the University of Lorraine: *Evaluation of Innovation Capacity of City Administrations*

**General debate (15 min)**

# MOT Journals' Editors Round Table

*Tuesday 21 June – 16:30 – 18:00 – Auditorium / hybrid*

Chairs: **Breno NUNES** [IAMOT] – **Manon ENJOLRAS** [UL-ERPI & ICE-IAMOT]

- Technology Forecasting and Social Change – Scott Cunningham – virtually
- IEEE Technology and Engineering Management – Alexander Brem – in person
- Technovation - Stelvia Matos - virtually
- Technology Analysis & Strategic Management – James Fleck – in person
- Regional studies – David Bailey – virtually
- RNI editions - Laurent Adatto – in person



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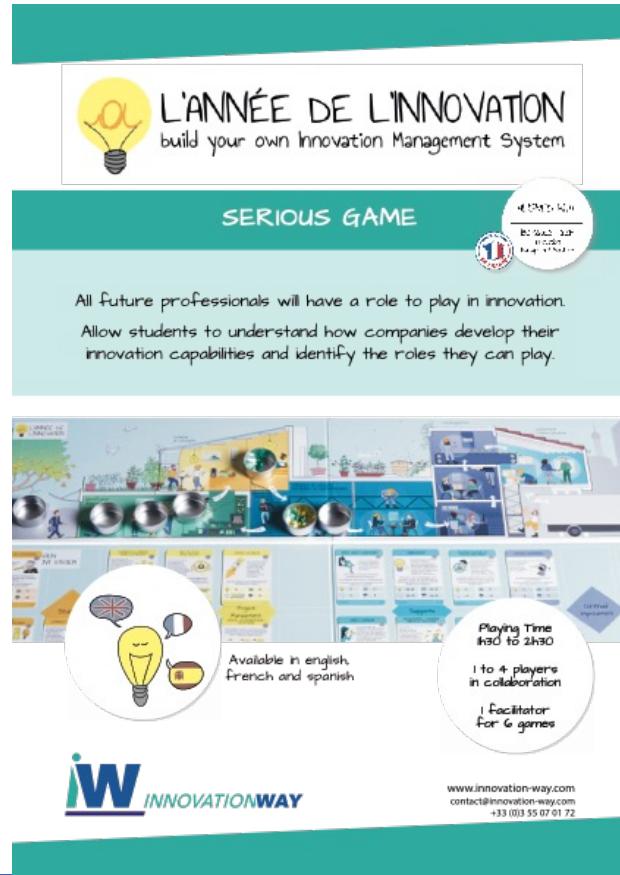
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# Pedagogical initiative for teaching Innovation and MoT

Tuesday 21 June  
– 16:30 – 18:00

Foyer 850 (Lunch Hall)



Johan Claire,  
CEO Innovation Way & ISO

Alice de Casanove  
Airbus & ISO

36 people

Foyer 850

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# Practical information



**21/06 - FÊTE DE LA MUSIQUE**

**À partir de 18h30 : déviations bus et tram**

**T1** ne circulera pas entre Kennedy et Division de Fer dans les 2 sens

Lignes déviées au centre-ville : **T2 T4 Corol 11 12 13 15 CITA DINE 1**

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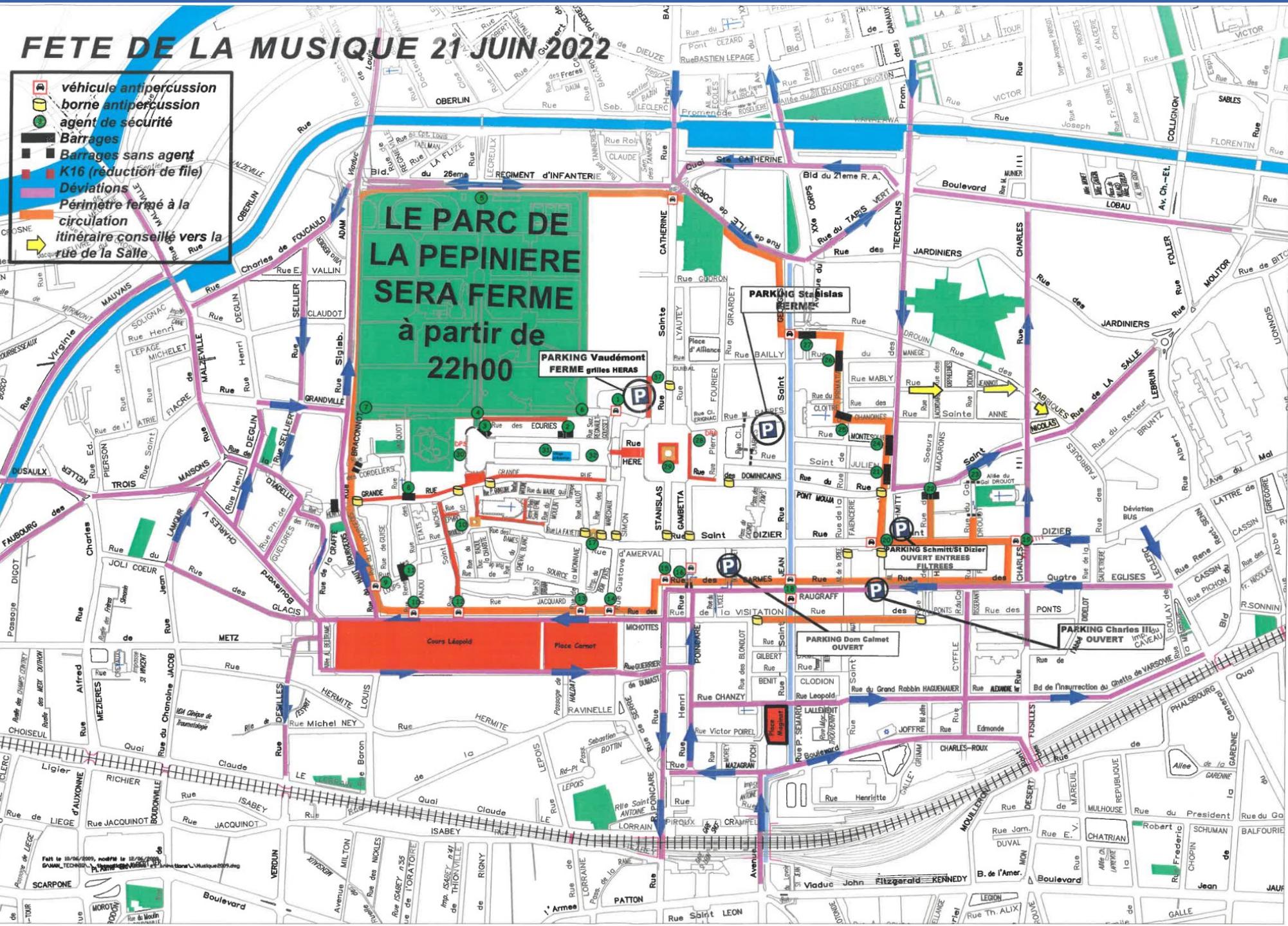
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**FETE DE LA MUSIQUE 21 JUIN 2022**



# Wednesday 22 June



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# Wednesday 22nd June

## Seven EU projects: Round tables & Workshops



1. Responsible Research and Innovation: new methodological approaches and practical insights
2. Emerging Trends and Innovations in Project Management
3. Co-creation laboratories for mitigation and adaptation to climate change –
4. Open Innovation for collaborative production engineering (IA)  
TOPIC ID: DT-FOF-05-2019

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# Overview

	<p><i>Wednesday 22<sup>nd</sup> June [Venues: Centre Prouvé &amp; Octroi Nancy]</i></p>	<p><i>Thursday 23<sup>rd</sup> June [Venue: Octroi Nancy]</i></p>	
9:00 – 10:30	<p>Round table <b>Open innovation, technologies &amp; communities as enablers of socio-economical transition :</b> Short presentation of the projects, results and perspectives + focus:</p> <ul style="list-style-type: none"> <li>Definitions of (open) communities and open innovation</li> <li>Engagement strategy to transform European Industry in line with Responsible Research and Innovation and Circular Economy</li> </ul> <p><i>Centre Prouvé Auditorium 300 + stream</i></p> 	<p><b>9:30 – 12:00</b> <b>When West meets East - ICE-IAMOT</b> Open workshop - Expo Green Techs – Posters, short talks &amp; networking <i>(open to all)</i></p> 	
10:30 – 11:00	Coffee break	<p>9:00-13:00 WS INEDIT <i>(only for project members)</i></p> 	
11:00 – 12:30 Parallel WS	<p>Short session - Sister projects shared workshop <i>(open to all)</i>: “Co-designing Open innovation, technologies &amp; communities to enable socio-economical transition” – practices and actions from</p> <p><i>Centre Prouvé Auditorium 300 + stream</i></p> 	<p>11:00-12:30 WS DigiTeRRI <i>(open to all)</i></p>  <p>11:00-12:30 WS Climate labs <i>(only for CL members)</i></p> 	
12:30 – 14:00	Lunch break + travel of participants to Octroi Nancy	<p>11:30 – Hélène Boulanger, President of Université de Lorraine</p> <p><i>Venue: Petite Halle – Octroi Nancy</i></p>	
14:00 – 18:00	<p>Demonstrator in Living lab mode + networking <i>(open to all citizens &amp; local industry)</i>: <b>Innovative Design Factory in the city</b></p> <ul style="list-style-type: none"> <li>DIT process: from Co-creation to open manufacturing</li> <li>Open_Next pilots &amp; booth</li> <li>iProduce software &amp; booth</li> <li>DIY4U booth</li> </ul> <p><i>Venue: Petite Halle – Octroi Nancy</i></p> 	<p>13:30 – 16:30 WS HyValue <i>(open to all)</i></p> <p><i>Centre Prouvé Auditorium 300 + stream</i></p> <p>13:30-18:00 WS Climate labs <i>(only for CL members)</i></p> 	<p>Food truck (not include in fees)</p> <p>14:00-18:00 WS Climate labs <i>(only for CL members)</i></p> 
18:00 – 19:45	Free time		
19:45	<p>Gala Diner &amp; surprises</p> <p><i>Place Stanislas - City Hall</i></p>	<p>Climate labs welcoming cocktail</p>	

# "Open innovation, technologies & communities as enablers of socio-economical transition"

Chair: Dr. Laurent DUPONT, Université de Lorraine, France

- Context:
  - Climate change! Limits and challenges of our current societal model – An introduction. Mauricio Camargo - Université de Lorraine
  - New trends in the EU context and the Society: What responsibility of Science and Innovation in societal transitions? Introduction to RRI by DigiTeRRI - Marianne Hoerlesberger - Austrian Institute of Technology
  - Transforming European industry with DIY and open manufacturing facilities - Mehera Hassan – Technische Universität Berlin
- Short presentation of five European projects (DIY4U, iProduce, INEDIT, Open!\_Next, Climate Labs), results and perspectives + focus:
  - Definitions of (open) communities and open innovation
  - Engagement strategy to transform European Industry in line with Responsible Research and Innovation and Circular Economy



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## EU projects Round table

# Open innovation technologies communities

# as enablers of

# socio-economical transitions

?

# Some definitions and actions

# Debate

# We will shed light on the context



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# **Technology, Engineering and Innovation Management Communities as Enablers for Social Ecological Transitions**



# EU projects Round table – International Panel



Laurent Dupont  
(France)



Benjamin Poussard  
(France)



Waldo Soto  
(Chile)



Mehera Hassan  
(Germany)



Manuel Sánchez  
(Spain)



Marianne Hörlesberger  
(Austria)



Chandana Ratnayake  
(Norway)



Robert Mies  
(Germany)



Mauricio Camargo  
(France & Colombie)



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# EU projects Round table

innovation  
Open technologies  
communities

as enablers of

socio-economical  
transitions

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We will shed light  
on the context



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Nancy

# EU projects Round table – International Panel



**Marianne Hörlesberger** joined AIT Austrian Institute of Technology GmbH 2001. She studied at the University of Vienna and holds a PhD in Mathematics. She started with methodologies for informetrics, scientometrics, and bibliometrics for identification of emerging technologies and the network of agents behind those topics. Nowadays, she further develops and applies foresight methodologies and approaches for responsible research and innovation in a broader context of innovation systems and has been responsible for such approaches in several EU projects.

**Mauricio Camargo (France & Colombia)** is full professor on Management of Technology and Innovation at the Ecole Nationale en Génie des Systèmes Industriels of Nancy (The Industrial Engineering School of the University of Lorraine - France), and researcher at the ERPI Laboratory (Research team on Innovative processes). BSc. On Chemical Engineering Universidad Nacional de Colombia.



**Mehera Hassan (Germany):** Mehera Hassan is a Research Associate and Doctoral Candidate at the Technische Universität Berlin. Passionate about mainstreaming open-source collaborative product creation and the future of production systems. Mehera is an Independent Expert Evaluator for the European Commission and she brings along 7+ years of international experience in the manufacturing industry. She is the co-project manager for OPENNEXT <https://opennext.eu/>.

# Climate change!

## Limits and challenges of our current societal model

### An introduction



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# What kind of innovation for ecological transicion ?



ERPI Equipe de Recherche sur les Processus Innovatifs

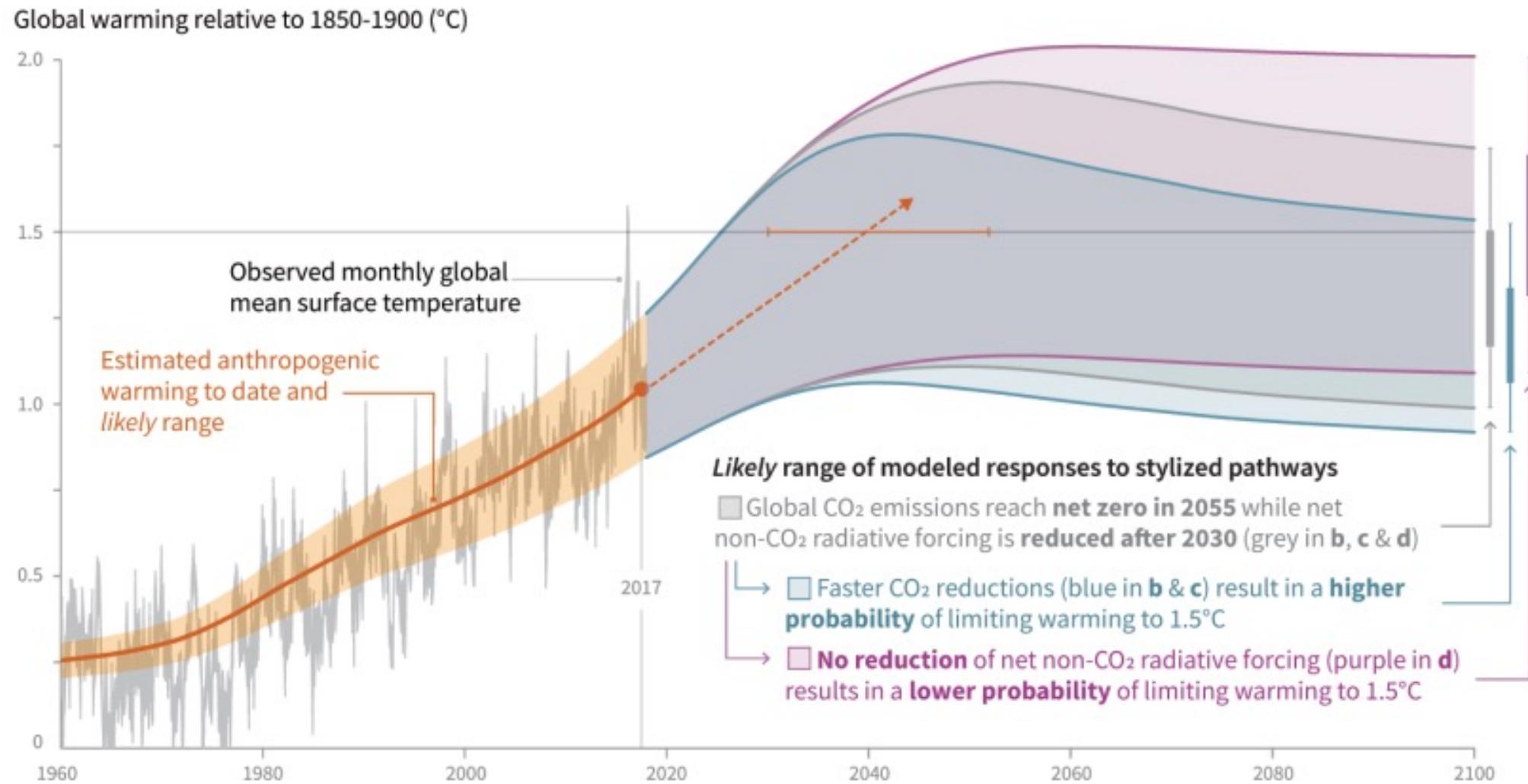
<http://erpi.univ-lorraine.fr>

Prof. Mauricio CAMARGO  
[Mauricio.Camargo@univ-Lorraine.fr](mailto:Mauricio.Camargo@univ-Lorraine.fr)



Can we continue to live under the same economic model?

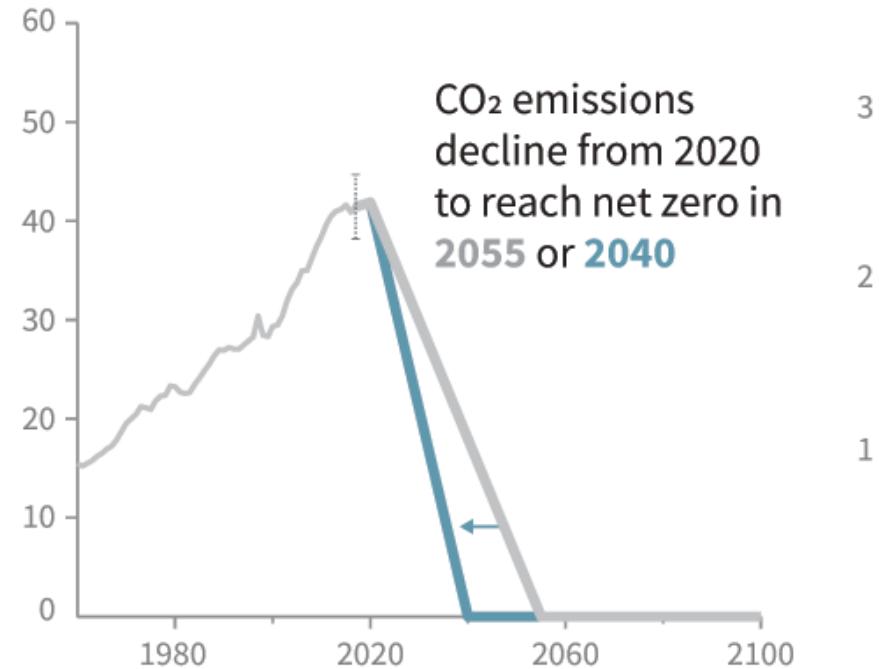
# Global warming still there



# Augmentation de la température mondiale

b) Stylized net global CO<sub>2</sub> emission pathways

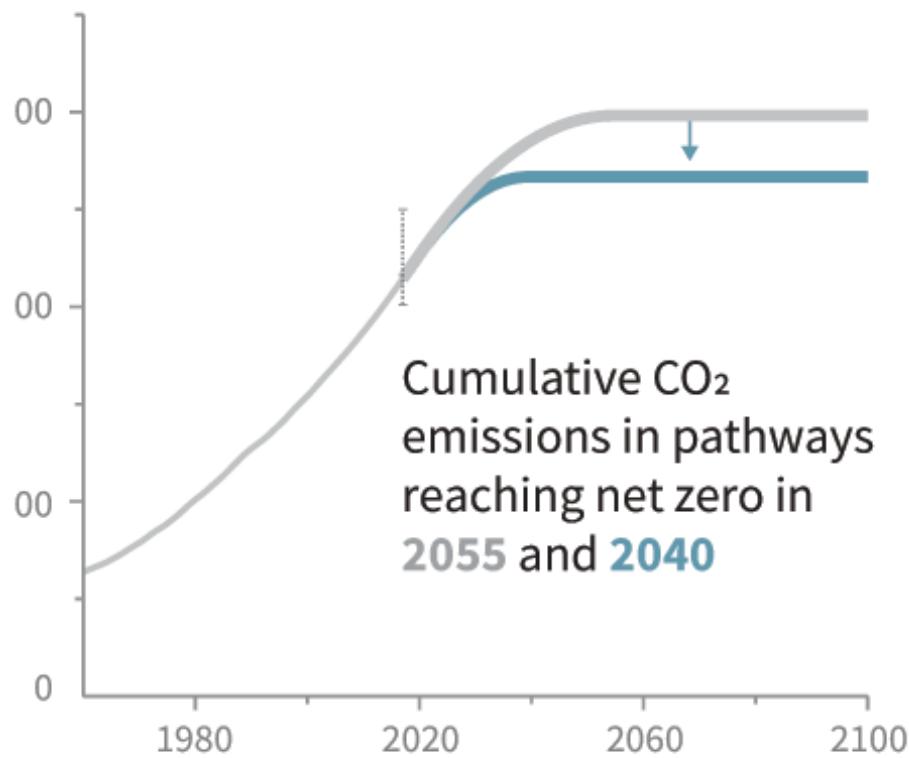
Billion tonnes CO<sub>2</sub> per year (GtCO<sub>2</sub>/yr)



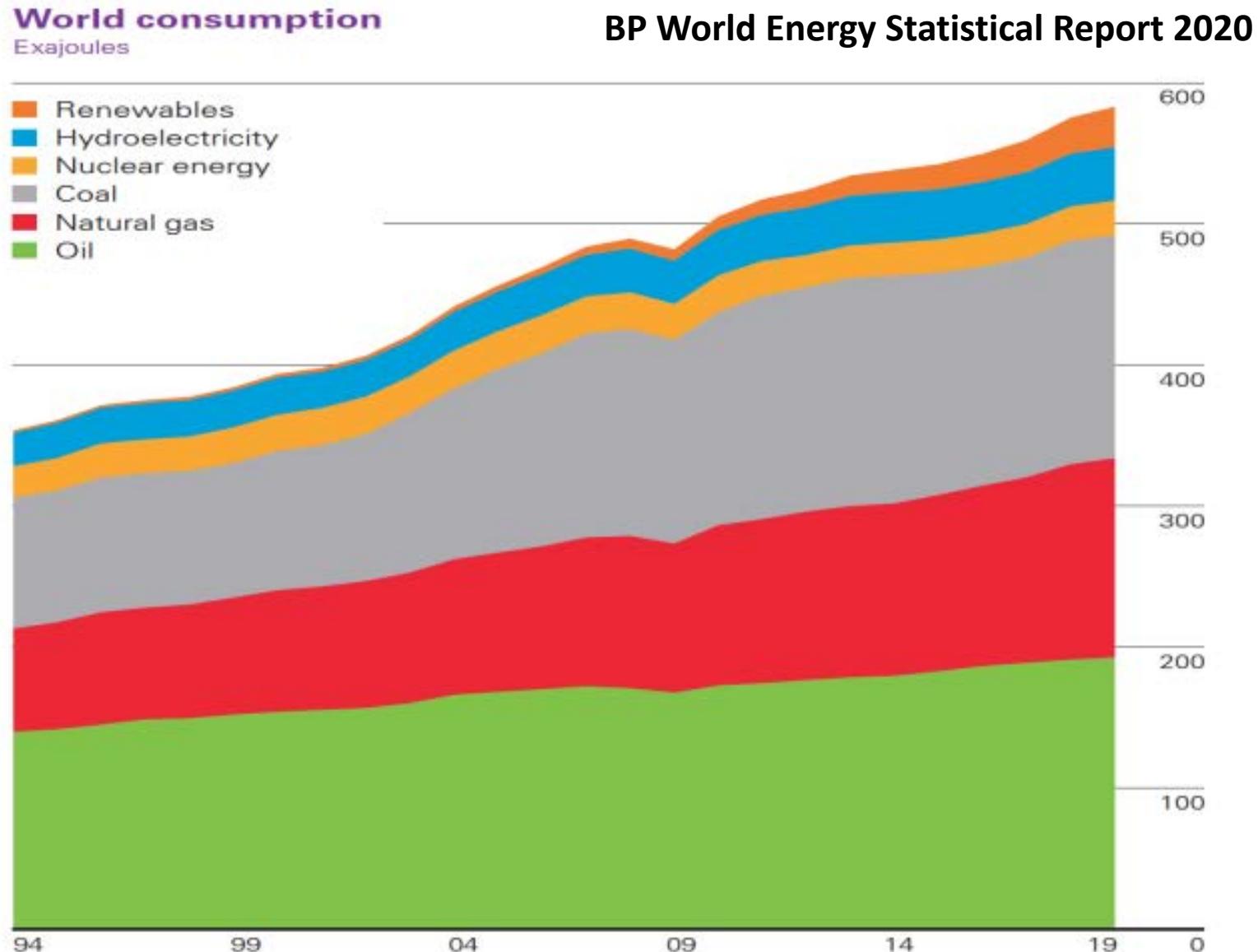
Faster immediate CO<sub>2</sub> emission reductions limit cumulative CO<sub>2</sub> emissions shown in panel (c).

c) Cumulative net CO<sub>2</sub> emissions

Billion tonnes CO<sub>2</sub> (GtCO<sub>2</sub>)



# Primary energy consumed by type of source

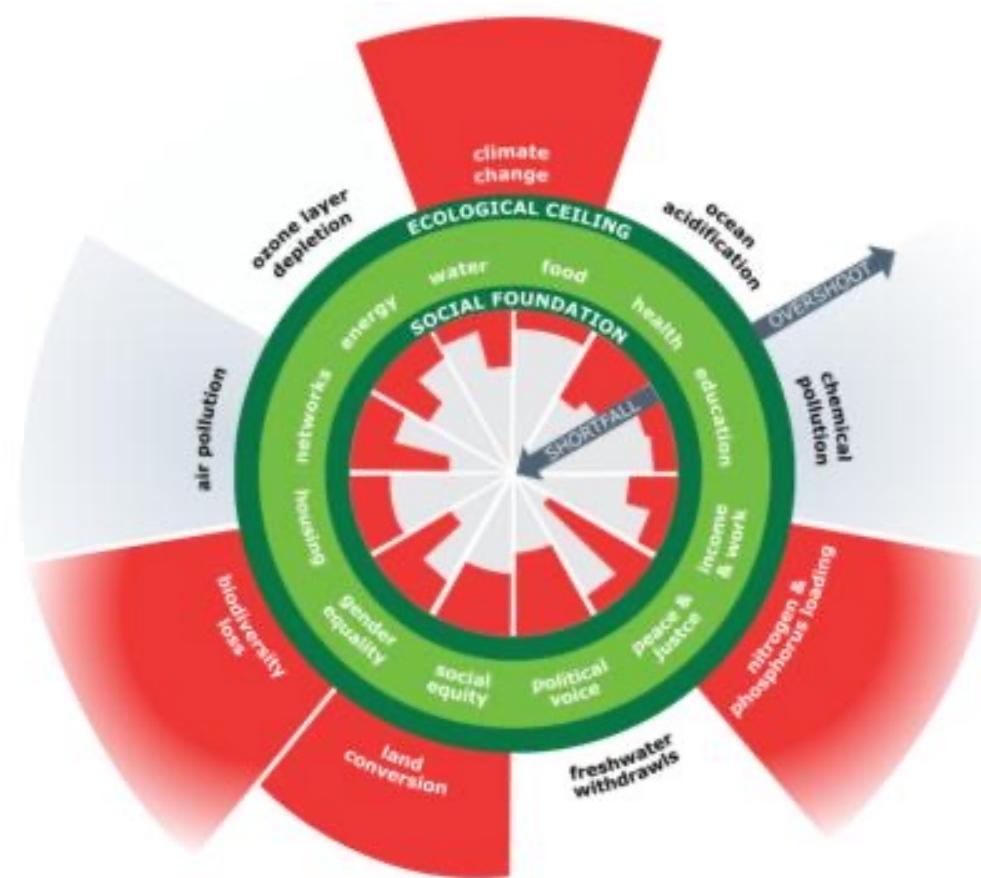


Energy consumption is increasing at a slower rate. But it is not decreasing.

Hydrocarbons continue to account for over 80% of consumption

Despite growth, renewable energy is still in the minority (5%)

# The Doughnut of social and planetary boundaries



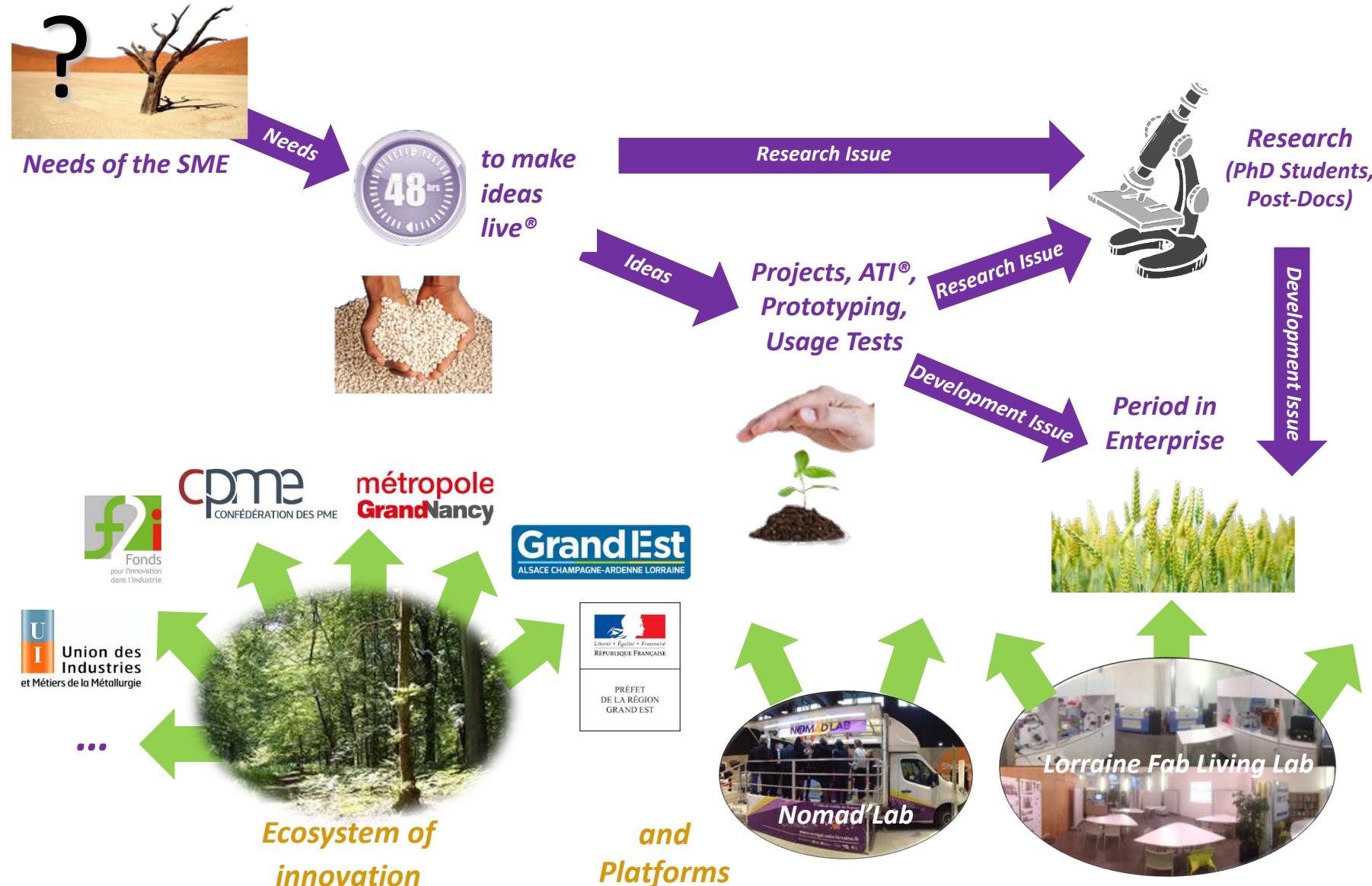
<https://www.kateraworth.com/doughnut/>

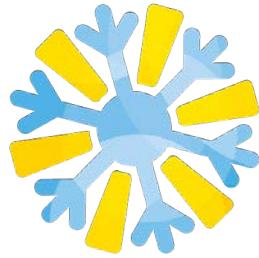
# **Urgent need for a new model !!**

**Our role from the university**

**At our level, how can we act?**

# Enhancing our exchanges (with, for) society





Climate  
Labs

# Climate Labs: Building capacity through co-creation of climate change labs



Climate  
Labs



Co-funded by the  
Erasmus+ Programme  
of the European Union

# New trends in the EU context and the Society: What responsibility of Science and Innovation in societal transitions? Introduction to RRI by DigiTeRRI



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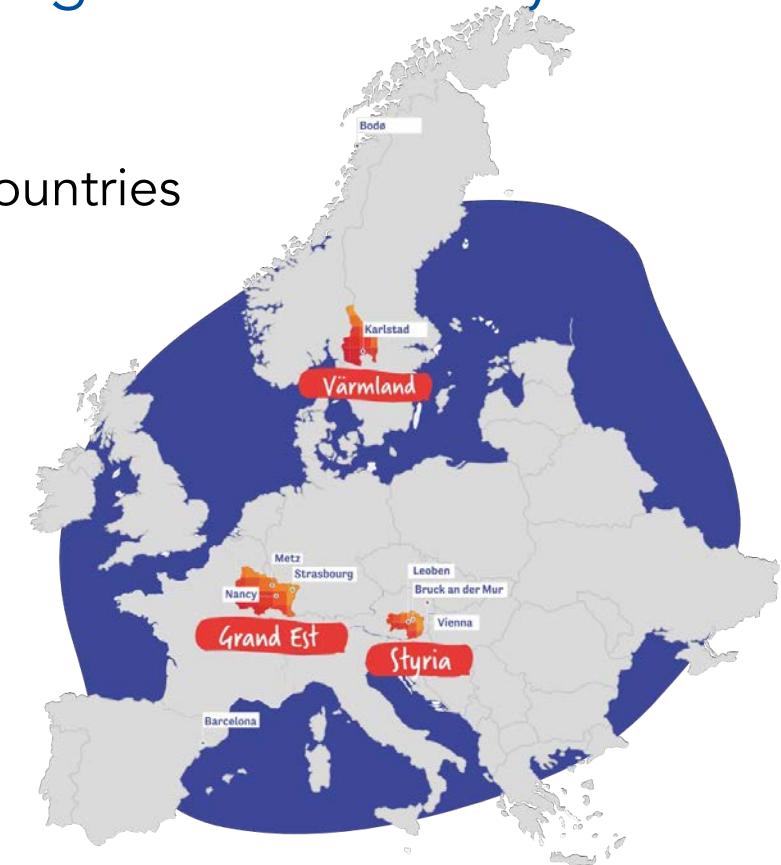


Marianne Hörlesberger, AIT Austrian Institute of Technology  
ICE-IAMOT 2022, Nancy

# DigiTeRRI – Responsible Research and Innovation Approach for Transitioning the Traditional Industry Regions into Digitalised Industry Territories

**Identity:** H2020 SwafS project (CSA), 12 partners, 5 European countries

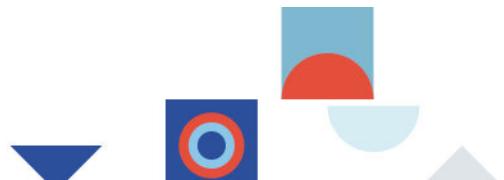
**Life-time:** Jan. 2020 – Dec. 2022



ICE-IAMOT 2022, Nancy, 2022, June 22



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 873010



# Objective

- DigiTeRRI elaborates a **framework and develops a roadmap**
- for a transition of traditional industry regions into digitalized industrial innovation ecosystems
- by using **Responsible Research and Innovation (RRI) approach.**

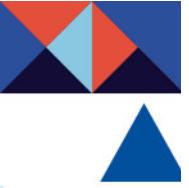
# Responsible Research and Innovation (RRI)

Responsible Research and Innovation (RRI) approach

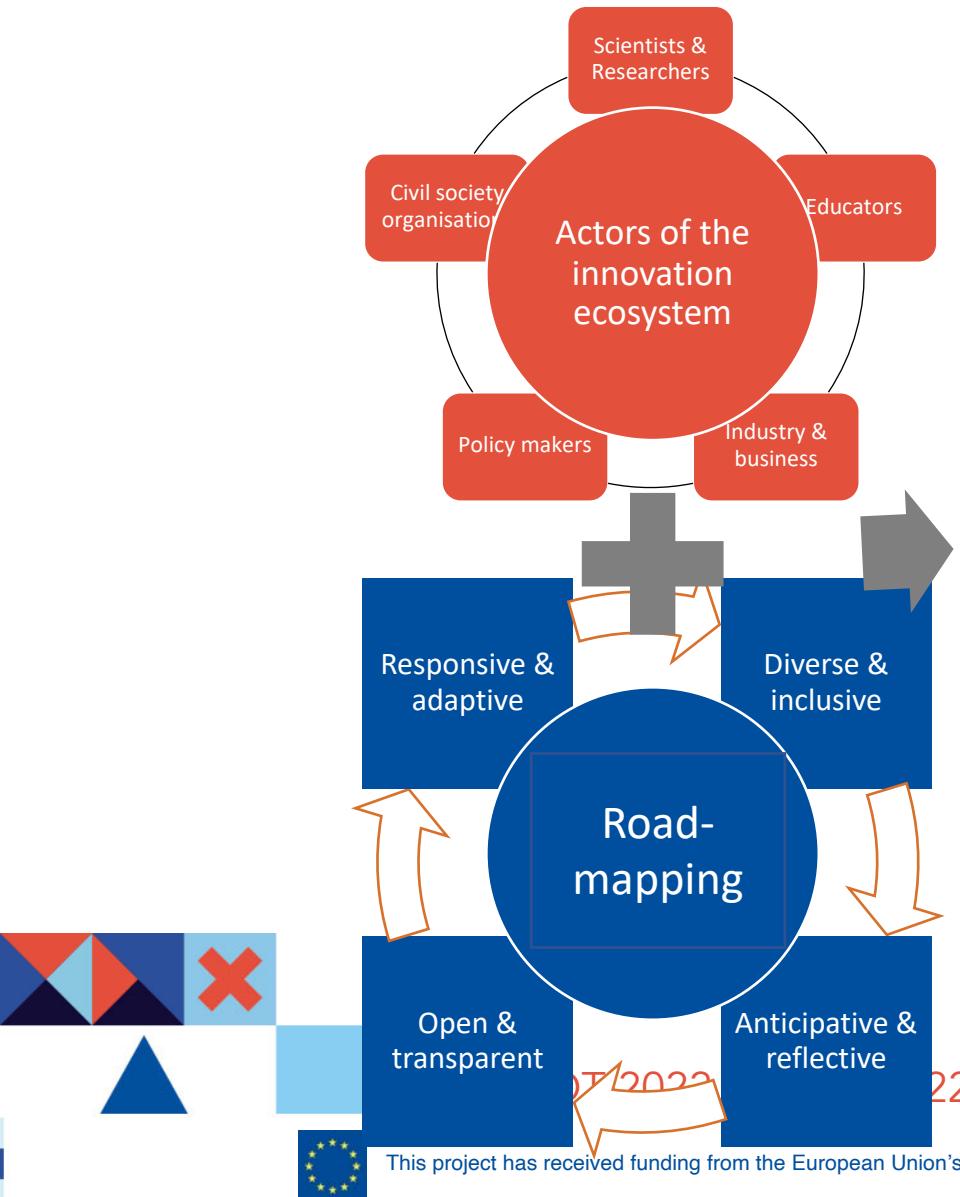
- would like to **bridge the gap between the scientific community and society at large** and
- **tackle the grand societal challenges**
- foresees that researchers and innovators actively design and align their work with **responsibility for society and environment**.

**RRI approach anticipates and assesses potential implications and societal expectations.**

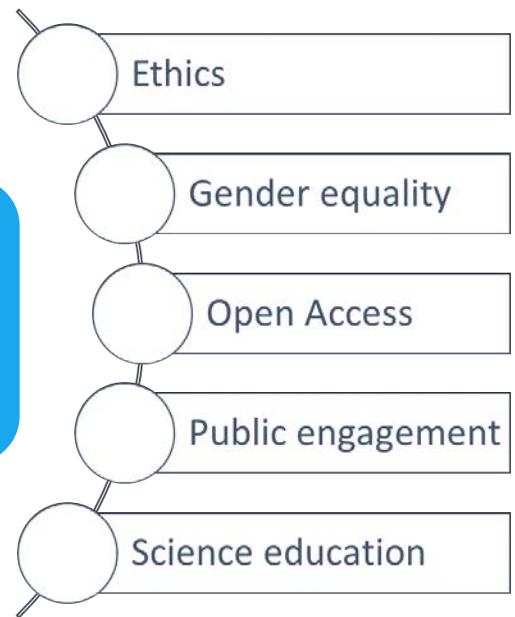
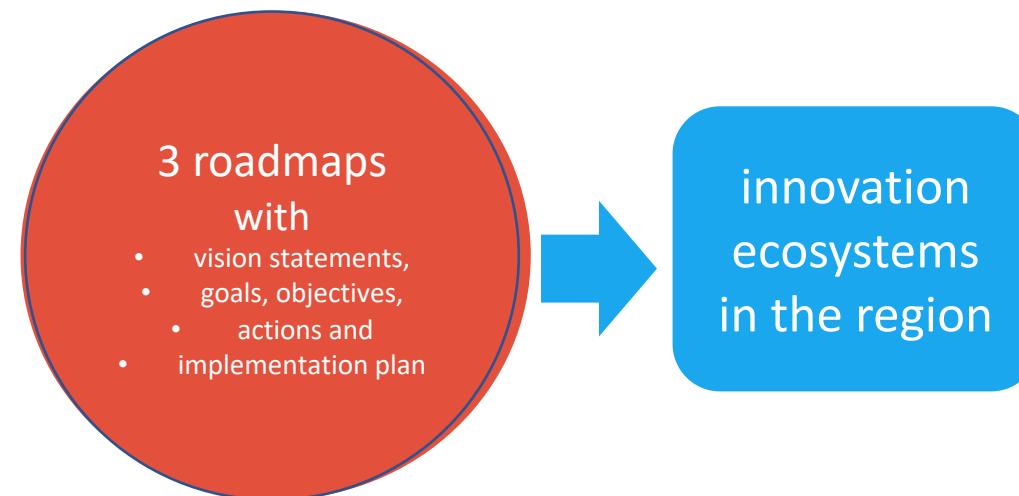
- *Under H2020 EU Programme the RRI approach was implemented in so called SwafS projects (Science with and for Society).*
- *In Horizon Europe (current programme) RRI requirements are integrated into technology development calls such as ICT, AI, Nano, etc.*
- Owen, R., Stilgoe, J., Macnaghten, P., Gorman, M., Fisher, E., & Guston, D. (2012). A Framework for Responsible Innovation. In Responsible Innovation (pp. 27–50). John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118551424.ch2>.
- Renè von Schomberg. (2020). Raising the Sail of Innovation. Philosophical Explorations on Responsible Innovation. <https://renevonschomberg.wordpress.com/2022/01/13/raising-the-sail-of-innovation-philosophical-explorations-on-responsible-innovation/>
- Linden Farrer - RRI Policy officer in EC



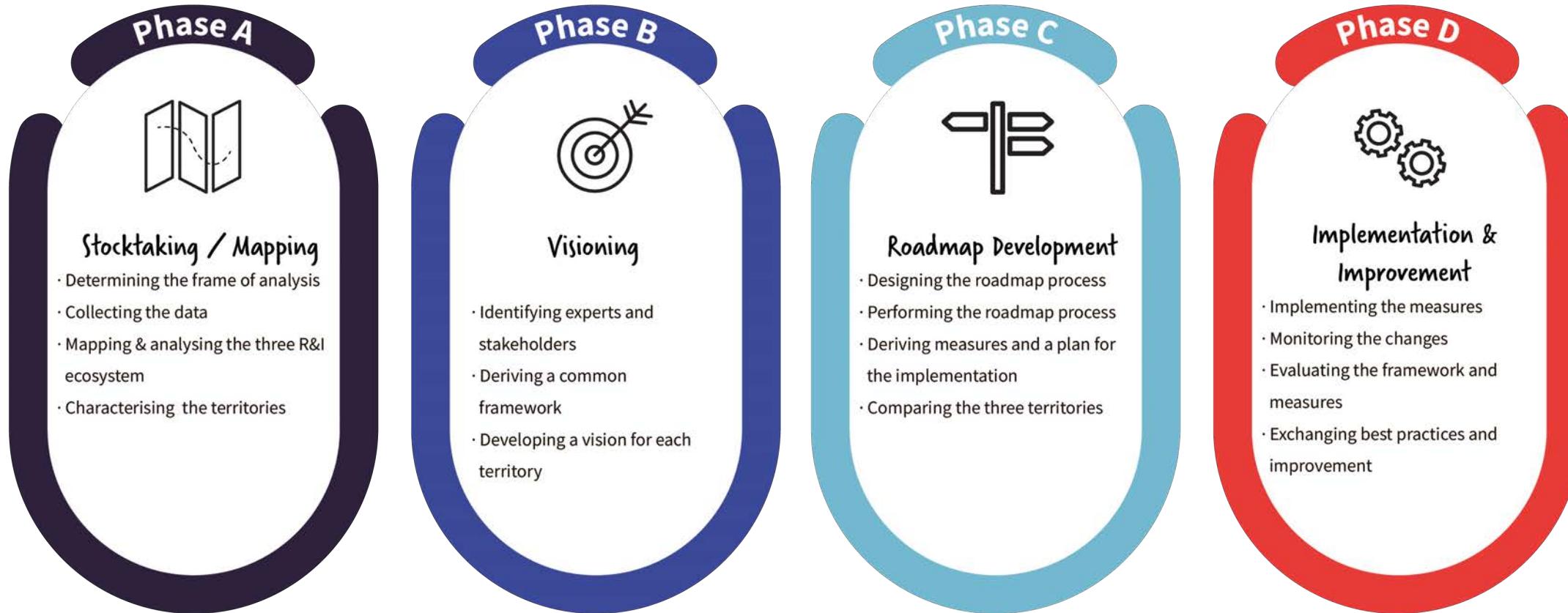
# The DigiTeRRI RRI Approach



Stakeholders of the innovation ecosystem in each region develop **TOGETHER** their future!



# DigiTeRRI Process



Road-mapping procedure

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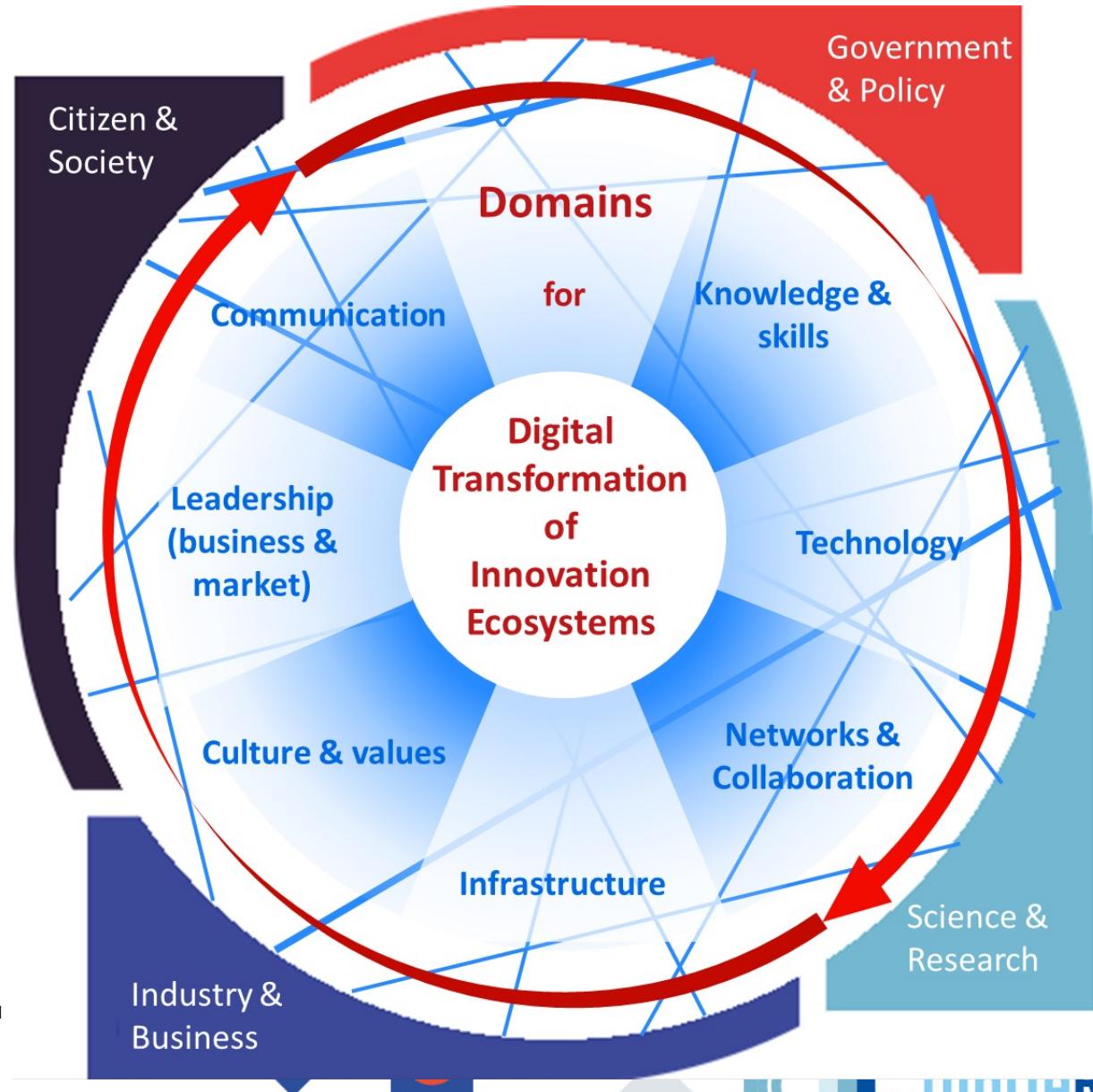


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 873010



# The DigiTeRRI roadmap domains and addressed actors / stakeholders

- 7 fields of actions,
  - developed based on Bumann & Peter\*, however, translated to regions+
- 4H actors of the innovation ecosystem



\* ) Bumann, Jimmy; Peter, Marc. (2019). Action Fields of Digital Transformation - A Review and Comparative Analysis of Digital Transformation Maturity Models and Frameworks.

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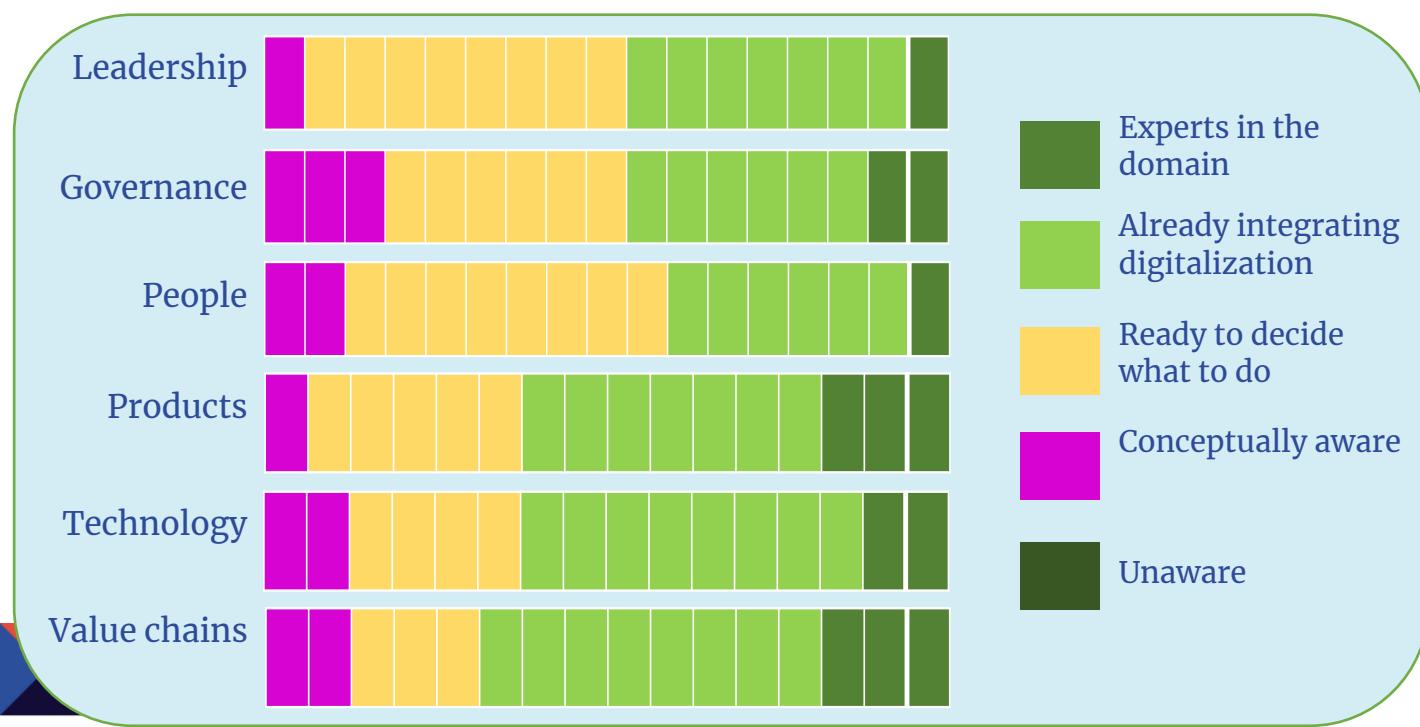


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# Mapping & Stocktaking

## Attainment of RRI

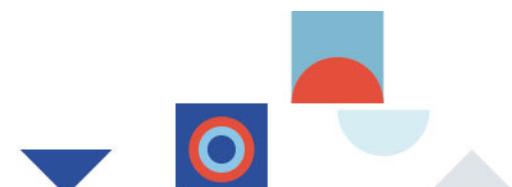
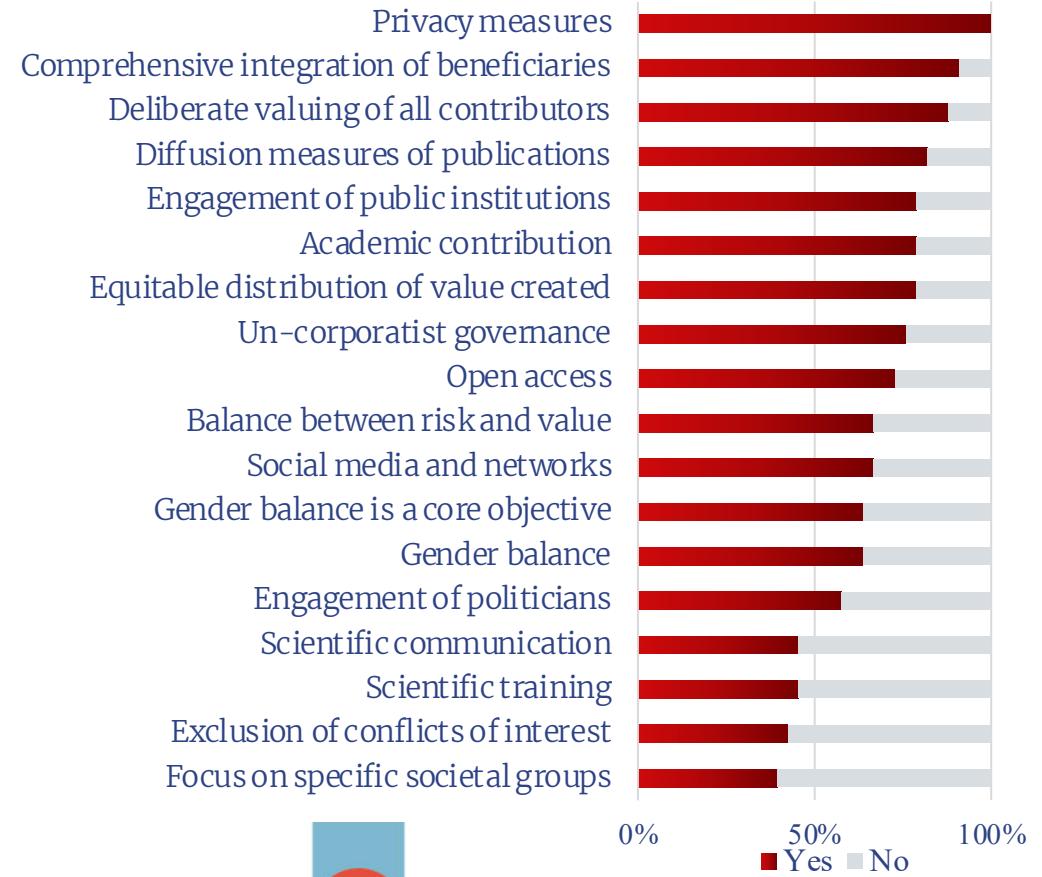
### Achievement of maturity (Example: Styria)



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# Visioning



# Vision Statements



Roadmap development itself  
*Goals, objectives, gaps, actions*

# 5 goals for Grand Est

Enable all talents in the Grand Est to seize opportunities provided by the digital sector

Digital technology allows a great number of people to make use of it, regardless of their level of education, socio-professional category, gender, or nationality. The actions to be carried out will vastly help people to be aware that they can consider digital technology as an accessible tool for professional and personal development.



Creating the conditions for the development of 'responsible' digital services and products



It has become a necessity to make sense of science and innovation to ensure a more sustainable and responsible world for society. The stakeholders involved in the development of new digital services are at the forefront of efforts this process. Our objective is to provide this audience with adequate tools and methods.

Developing new forms of collaboration

We believe that digital technology cannot be seen solely in terms of technology. This vision may result in a form of compartmentalisation between professions, uses and generations. Our ambition is to overcome "silos" to facilitate meetings and create links between different communities to create added value.



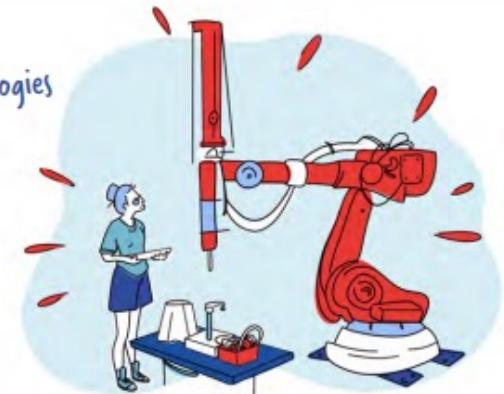
Increasing social responsibility as part of a digital transformation process



Assist public decision-makers and project support organisations in taking RRI into account in the strategic decision-making phases.

Giving as many people as possible the opportunity to discover digital technologies

New digital technologies can seem unclear and distant for some people, leading to fears and misconceptions. We intend to transform these fears into hopes to allow vocations, ambitions, and new projects to emerge. A willingness to open the innovation ecosystem to the public.



# Objectives - 21 in Värmland, 5 for Grand Est, and 12 for Styria

Objective 1	
Title of objective	Excellent competences for digital processes, platforms and tools to connect the population
Description of objective	The whole innovation ecosystem and all citizens there are confronted with digitalisation of the everyday life, with job requirements for digital processes, with digital processes in education, in science. Therefore, the overall level of knowledge and skill has to be increased and offered in a barrierfree platform
Gaps	The development of technologies for digitalisation is very fast. For coming along with this trend skills and knowledge acquirement is necessary continuously.
Addressed roadmap domains	Knowledge & skills, network & collaboration, infrastructure, culture and values, communication
Stakeholders affected	Science & research, education, industry & business, public administration, civil society.
Necessary activities	<ul style="list-style-type: none"> <li>Interaction and cooperation, joint education programmes will bridge the primery, secondary, tertiary, and academic segments, but also offer new trainings for lifelong learning.</li> <li>Digi@school: developing a comprehensive programme for digital skills for pubils, for all groups in the society.</li> </ul>
Timeline	Mid term, continuous action.
Initiated by whom	Montanuniversitaet Leoben, Industry & Business with Centre for Applied Technology



12 actions in each territory -  
each described as in the  
example here

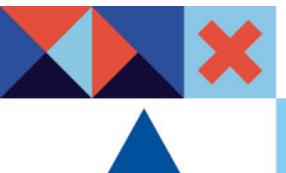
### Action No 1: Apply the competence wheel (compare methodology)

October 2021

Digitally - (Teams/Zoom)

A well proven methodology called Competence Wheel will be used to identify the competence gap as well as the future needs from the industry and the possibilities that are coming with new technology.

<https://www.compare.se/uploads/2020/02/Kompetenshjulet.pdf>



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This project has received funding from the European Union's Horizon 2020 research and innovation |

Who is responsible for that the performance of that action (name, organisation, contact mail)	Per Myhrén, Paper Province and Mikael Holmgren, Compare
Name Target group(s) within quadruple helix according to groups in D3.1 the action will address	Industry and business
If stakeholders are involved give the name and type of their organisation	No
Action belongs to which objects/goal in the territorial roadmap	Knowledge and Skills / high level data management courses
Name the group of measure to which the action contributes	Competence mapping, gaps identification, future needs
Timeline for action preparation (when should the action be performed beginning of preparation)	Preparation Q3 2021 and performed during October 1st – 31st.
Describe the impact of action – which gap will be closed according to the territorial roadmap	Low data management capabilities and capacities on high level data science management currently.
Does that action support other goals?	No
Does that action support the realisation of other measures?	Investigate companies' needs for data science. Investigate companies' and public sector's needs for open data
Which RRI dimension/key/process are addressed?	Anticipative initiative, Science Education
Is that a cross territorial action?	No
Is it a single action or multiple actions	Single

## Implementation & Evaluation

ongoing  
9 action in each territory already  
implemented

# DigiTeRRI final conference



ICE-IAMOT 2022, Nancy, 2022, June 22



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20<sup>th</sup> and 21<sup>st</sup> of October 2022

In Vienna!

Subscribe to our newsletter to receive the latest information about the event.

Subscription page is coming soon!

Subscribe here:

<https://digiterri.eu/>



Marianne Hörlesberger, AIT

[marianne.hoerlesberger@ait.ac.at](mailto:marianne.hoerlesberger@ait.ac.at)



# Transforming European industry with DIY and open manufacturing facilities – Factories of the Future?



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<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-fof-05-2019>

The transfer to industrial companies of the Do It Yourself (DIY), fablabs, micro-factories and makers approaches can pioneer ways towards engineering solutions throughout the whole value chain. These innovative methods can lead to new processes, machines and products with new functionalities and shorter time to market.

Industry is not yet widely using such innovative approaches to engage consumers and respond to societal needs, also taking into account the individual preferences of women and men. Collaborative production liaising companies, especially SMEs, with these new approaches can however create Open Innovation networks that can unroll a wide range of entirely new business opportunities for the benefit of consumers.

*The purpose of this call is to transform European industry through the integration of digitisation and other enabling technologies and achieve global industrial leadership. Success will be seen in global industrial leadership, notably in manufacturing, and in opportunities for re-industrialisation.*



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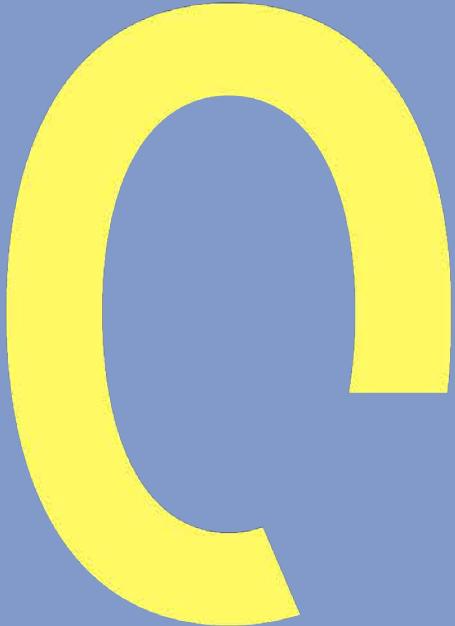
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Transforming European industry  
with DIY and open manufacturing  
facilities



## Horizon 2020 – Factories of the Future ↓



Mehera Hassan  
Technische Universität Berlin  
2022 IEEE 28<sup>th</sup> ICE/ITMC & 31<sup>st</sup> IAMOT joint conference  
Nancy 22/06/2022



# Creating the European Manufacturing of the Future!



# EU - Horizon 2020 - Funding programme ↴



## Facts:

- Timeline 2014 - 2020
- 80 billion Euros
- Public Private Partnership (PPP)



## Factories of the Future

- 1.15 billion Euros
- up to 43 call topics
- FOF-05-2019 - Open innovation for collaborative production engineering

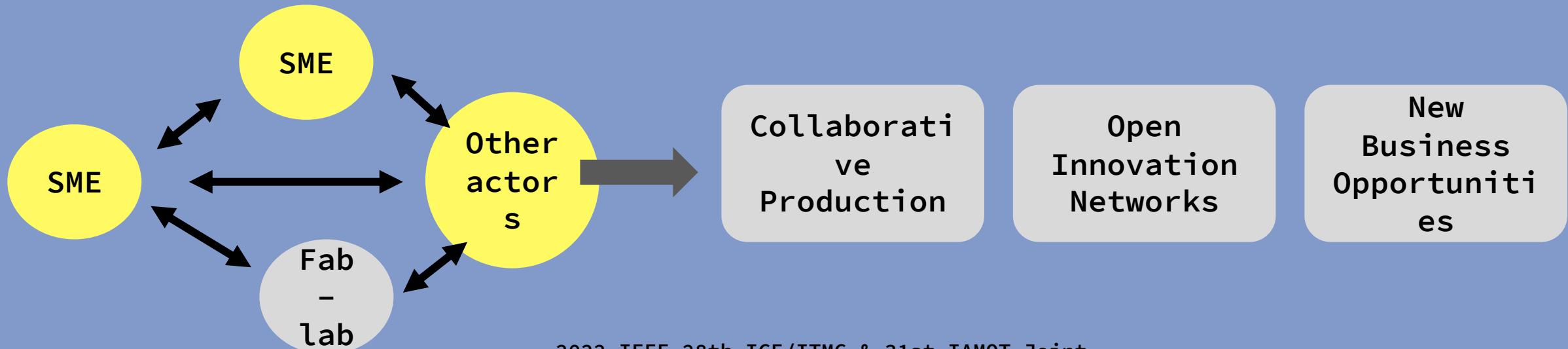
# FoF-05-2019-Open innovation for collaborative production engineering ↓

66

- Micro Factories
- Fablabs
- Do It Yourself
- Makers

Industry

- New Products and Processes
- Shorter time to Market



# FOF-05-2019:

Scope - Consumer goods with customer-driven production

- 1 Designing and engineering from different actors
- 2 Creative and agile analysis methods
- 3 Ways to share and analyse user data for collaborative engineering in production networks
- 4 Open-source data exchange & definition of standards
- 5 Manufacturing Demonstrators Facilities (MDFs)

# FOF-05-2019: Expected Impacts

- 1 Europe-wide open innovation manufacturing networks
- 2 Customer-driven production
- 3 Increased customisation
- 4 Improved co-design & co-development capabilities
- 5 Lower development cost



# FOF-05-2019

# Four sister Projects!



OPEN!  
NEXT

Thank you  
for your attention

# EU projects Round table

# innovation Open technologies as enablers of socio-economical communities transitions ?

# Some definitions and actions



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# **Technology, Engineering and Innovation Management Communities as Enablers for Social Ecological Transitions**

# EU projects Round table – International Panel

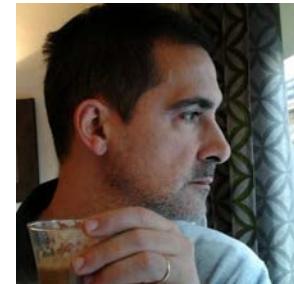
					
Demonstrator(s)	2 MDFs (Fablabs) + Digital platform; 2 rounds of OIPs with 6 SMEs	4 OMDF (Innovation Hub supported by a SME & a Big company; 3D printing with wood ; 3D printing & moulding with recycled plastic ; smartification ) + Digital platform for Co-creation (website + Apps + ERP + SDO	6 (5) CMDF + 19 Use cases (co-creation ventures) + several open innovation missions. Digital platform for co-creation	6 pilot + 12 demonstrator SME cases (OS hardware projects with makerspaces providing facilitation support for co-creation); one co-creation and one metadatabase for linked open hardware	
Sectors	FMCG	Furniture	Furniture, Mobility, Microelectronic, Medical equipment...	Consumer electronic, eco-friendly mobility, build-to-order furniture	
Level of development	From TRL4 to TRL6	From TRL4 to TRL6	From TRL4 to TRL6	From TRL4 to TRL6	
European Countries	7	8	8	8	
Consortium	1 Large industry, 7 RTOs, 6 SMEs	4 SMEs, 2 RTD centers, 6 High Educ., 2 large companies	7 SMEs, 1 large company, 1 University, 3 RTO, 4 Fablabs, 2 regional entities, 1 cluster	6 SMEs, 4 Makerspaces, 2 ICT providers, 6 research partners	

# EU projects Round table – International Panel



**Robert Mies (Germany)** is an industrial engineer by training with a specialisation on mechanical engineering. He works since 2016 as research associate at the Chair of Quality Science at the TU Berlin, doing research on the topic of open design and open source hardware development from an engineering design/industrial engineering perspective, currently in: OPENNEXT as project manager <https://opennext.eu/> and Open.Make as project member <https://openmake.de/>.

**Manuel Sánchez (Spain)** works in the Research and Development area of AIDIMME ([www.aidimme.es](http://www.aidimme.es)), the Metal-processing, wood, furniture and packaging technology institute. He is currently coordinating the iPRODUCE project. His background includes Additive Manufacturing, Computer Aided Design, Clean Technologies and cluster development.



**Chandana Ratnayake** is a chief Scientist in SINTEF, **Norway** and the main coordinator contact of the DIY4U Project. Got a PhD in Process Technology, specialising in Powder & Particulate Technology (Norwegian University of Science and Technology -NTNU) with a long-term experience and expertise on Powders and Bulk Material Technology- storage, transport, processing, and characterisation of particulate materials. Also works as a Professor II (Adjunct Professor) in the University of South-Eastern Norway (USN).



# OPEN! NEXT

TRANSFORMING COLLABORATIVE  
PRODUCT CREATION

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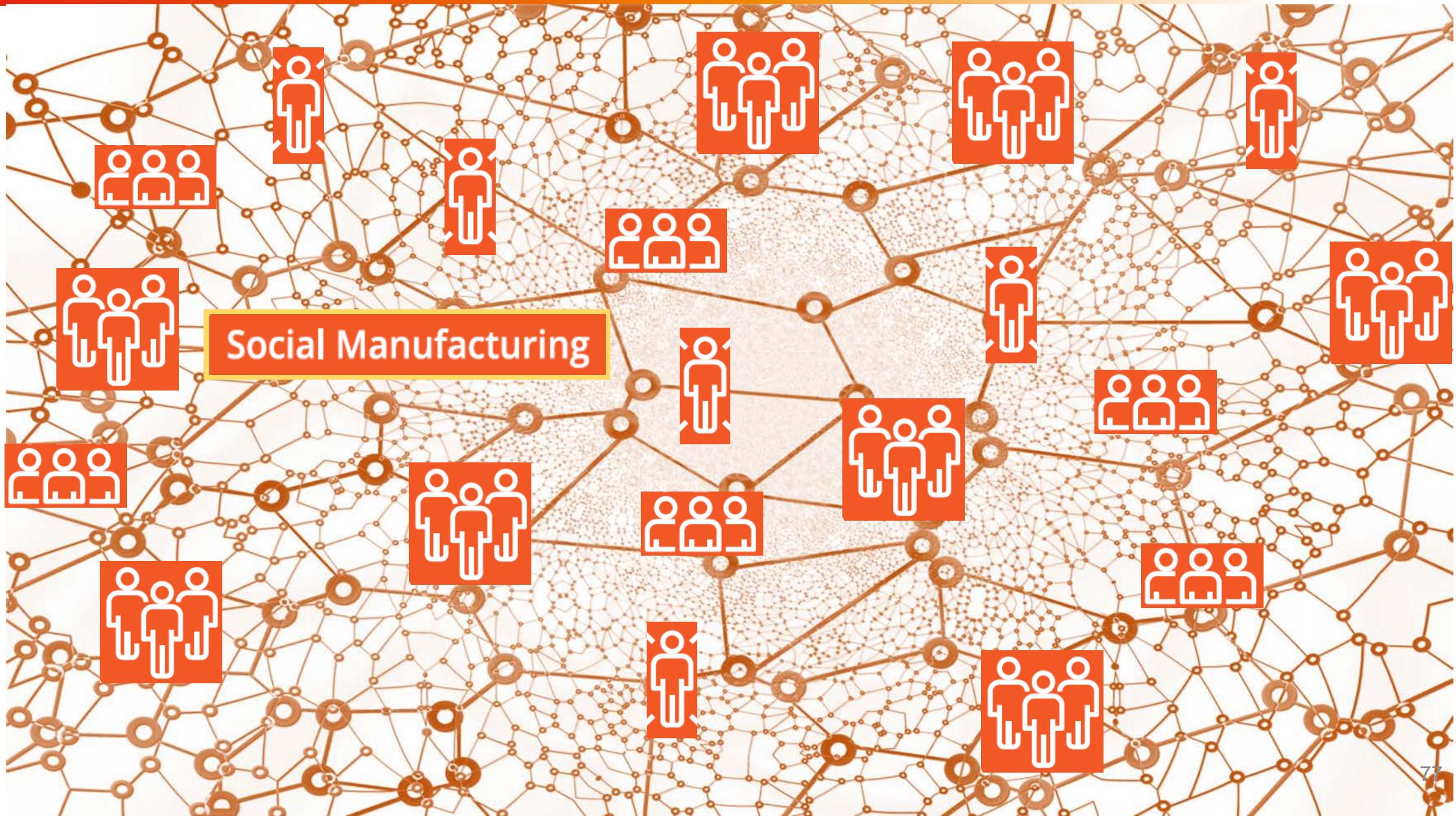


# A Social Manufacturing Framework.

AIDIMME/ Manuel Sánchez

June 2021

# Context



# Social Manufacturing Framework



## SOCIAL MANUFACTURING FRAMEWORK

iPRODUCE aims to 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** at the local and European level manufacturing **enterprises** (SMEs and/or mid-caps); **makers** communities (fab labs, makerspaces and start-up communities); and **consumers**.



## INCREASED COLLABORATION

The SMF proposes **increased collaboration** between manufacturing companies and makers so that new ideas and perspectives are leveraged to meet **consumers' needs** and existing ideas, designs and prototypes can be better explored for commercialisation and mass production.



## COLLABORATIVE MANUFACTURING DEMONSTRATION FACILITIES

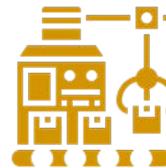
The SMF aims to **connect** micro-manufacturing and other existing **facilities** at the local level, organising them into **collaborative Manufacturing Demonstration Facilities (cMDFs)**



# iPRODUCE cMDFs



cMDFs are local communities (ecosystems)



with the base **infrastructure** and facilities

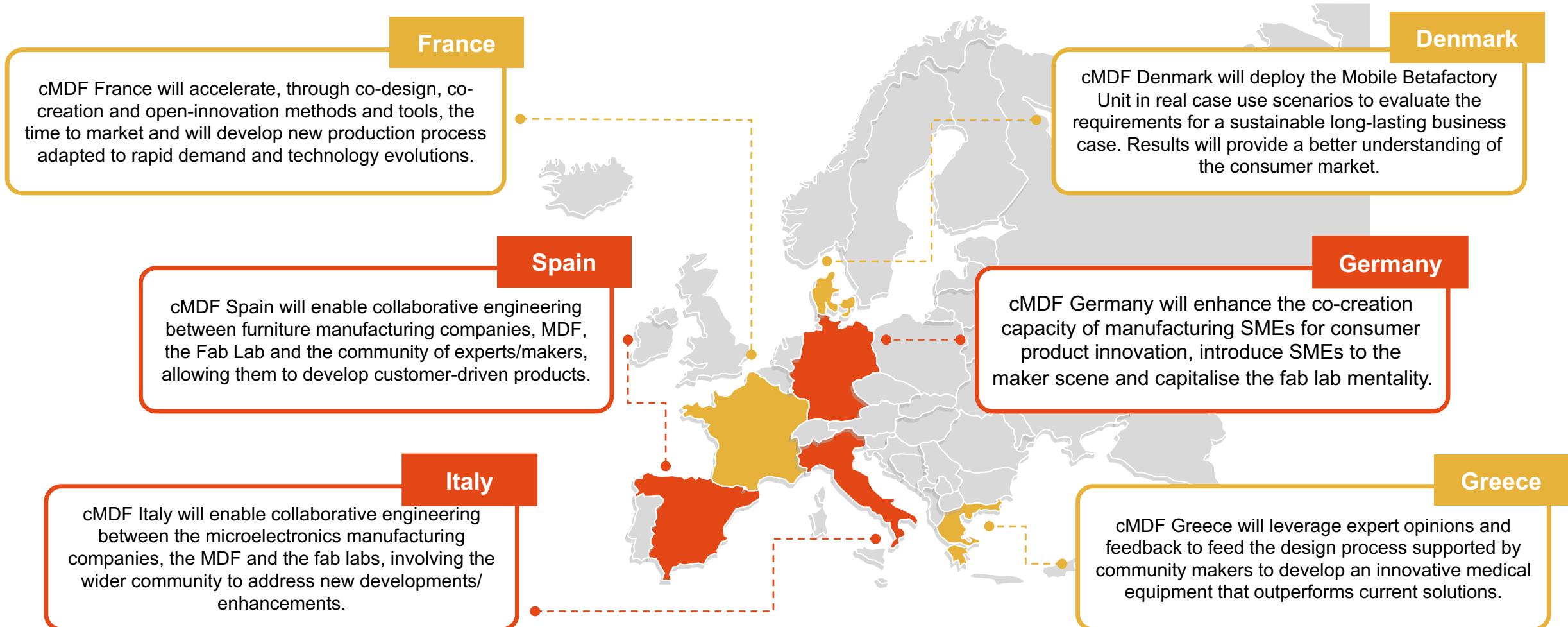


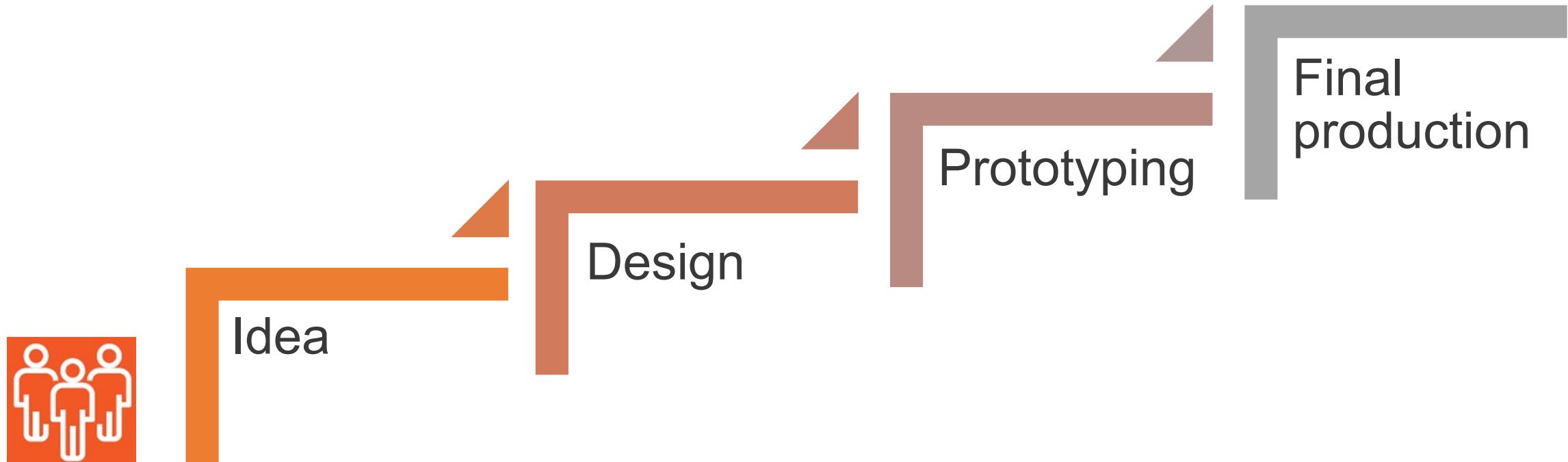
for user engagement, co-creation, prototyping, validation and training



to support collaborative production





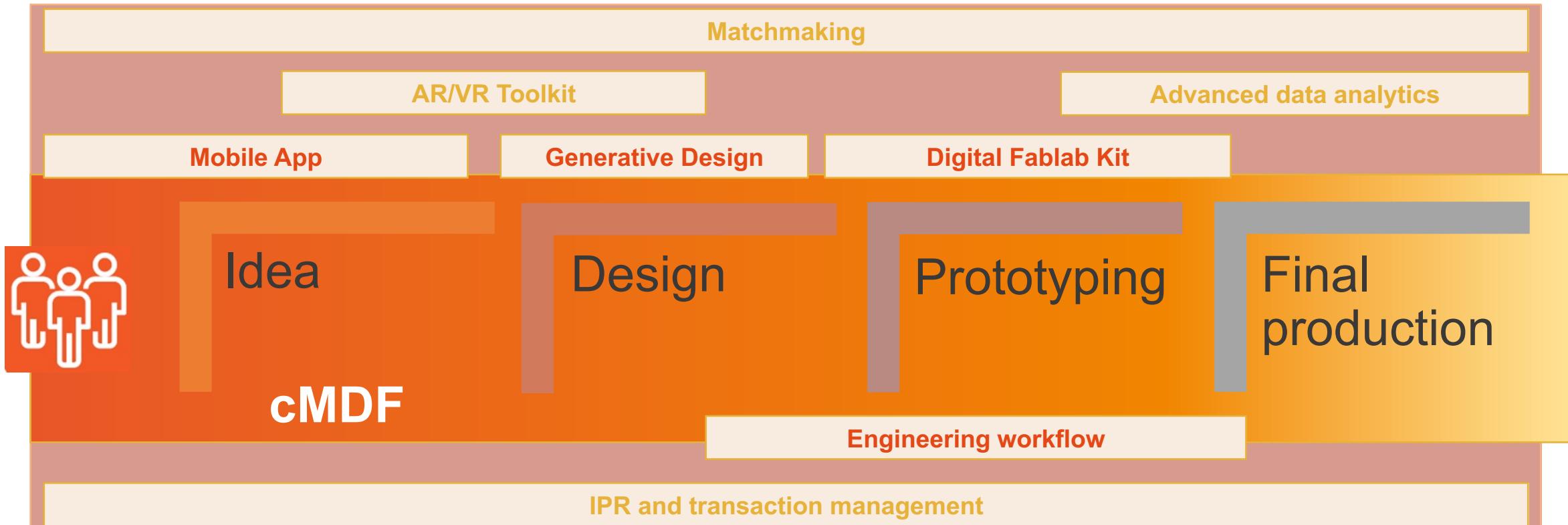




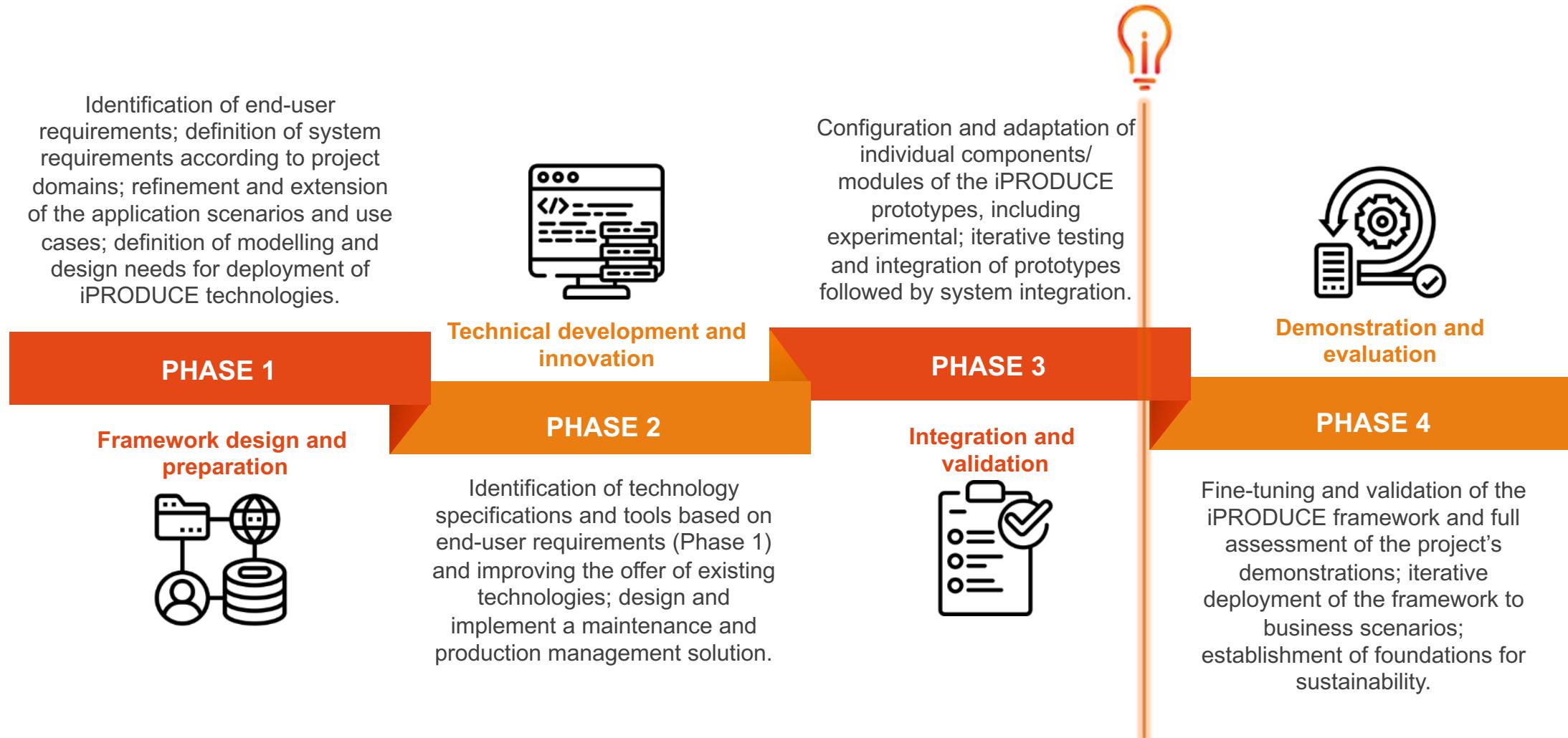
# Hopefully, even easier with iPRODUCE



(Which, additionally, expands the local scope of the cMDF)



# Where are we now?



# Get in touch :)



<https://iproduce-project.eu/>



D2.1 | Stakeholder Requirements for UDI in the Consumer Goods Products

[Download file](#)

September 2020

Lead: White Research (BE)

Abstract: The report presents the main findings of the iPRODUCE Task2.1 survey, aiming to capture insights about consumer acceptance, needs, drivers, and barriers to the use of QR codes in the project's different value-chain extremes, capturing main outcomes regarding general EU citizens' makers' and manufacturer perceptions, needs and potential differences. The report is structured as follows: Section 1 provides a short description of the context that motivated the project and introduces the main research questions that guided this study. Section 2 presents a literature review regarding the main drivers, barriers, and opportunities for QR code implementation in the manufacturing and retail art in the field of social manufacturing. Section 3 includes all information related to the survey design and the implementation. In Section 4, we present some initial descriptive findings closely related to individual perceptions and levels of acceptance and highlight any significant variations between different EU areas. This

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## Co-creation methods and tools

This page provides a mapping and assessment of methods and tools with a strong application in Design Thinking and co-creativity production projects and approaches. These tools and methods have been mapped through an extensive literature review, complemented with information provided through surveys. The tools and methods are grouped into categories: research, team-building, ideation, development, assessment/evaluation, and validation. Refer to the following documents for further information:

[Research](#)

[Team building](#)

[Ideation](#)

[Development](#)

[Assessment/evaluation](#)

[Validation](#)

[Category descriptions](#)

3D Print  
Platform offering online CAD catalogue for 3D printing.

Add Print

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iPRODUCE's third plenary meeting sets foundations for the project's upcoming activities

Nov 1, 2020

About eight product design + mas and 3D printing have in common On 29 October 2020, the German CMDF invited the 21 partners of the iPRODUCE consortium met online this past A-S

german a produce project...

Privacy & Cookies Policy

German CMDF holds its fifth online workshop

Oct 16, 2020

About eight product design + mas and 3D printing have in common On 29 October 2020, the German CMDF invited the 21 partners of the iPRODUCE consortium met online this past A-S

iPRODUCE present at the HABITAT Congress 2020 (Valencia, Spain)

Oct 16, 2020

About eight product design + mas and 3D printing have in common On 29 October 2020, the German CMDF invited the 21 partners of the iPRODUCE consortium met online this past A-S

innovations from the manufacturer". This

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[https://twitter.com/iPRODUCE\\_EU](https://twitter.com/iPRODUCE_EU)



<https://www.linkedin.com/company/iproduce-project>



[https://www.youtube.com/channel/UCECO\\_LmEXaP4ZhiGd-jMHKg](https://www.youtube.com/channel/UCECO_LmEXaP4ZhiGd-jMHKg)



Thank you.

Manuel Sánchez de la Asunción  
AIDIMME

[msanchez@aidimme.es](mailto:msanchez@aidimme.es)



#### Acknowledgements



[geotatah](#)



[turkkub](#)



[Eucalypt](#)



[Nikita Golubev](#)



[Becris](#)



[Smashicons](#)





# Open Innovation Digital Platform & Fablabs for Collaborative Design & Production of Personalised Fast Moving Consumer Goods

– DIY4U



Chandana Ratnayake  
SINTEF, Norway- The Coordinator DIY4U



This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148

# DIY4U – Design & production of personalised powdered & liquid FMCG (Fast Moving Consumer Goods)



42 Months (11/2019 to 04/2023)



Overall: ~6,8 MEUR



14 Partners (7 Industries, 7 R&D Partners), 8 Countries



<http://www.diy4u.eu>



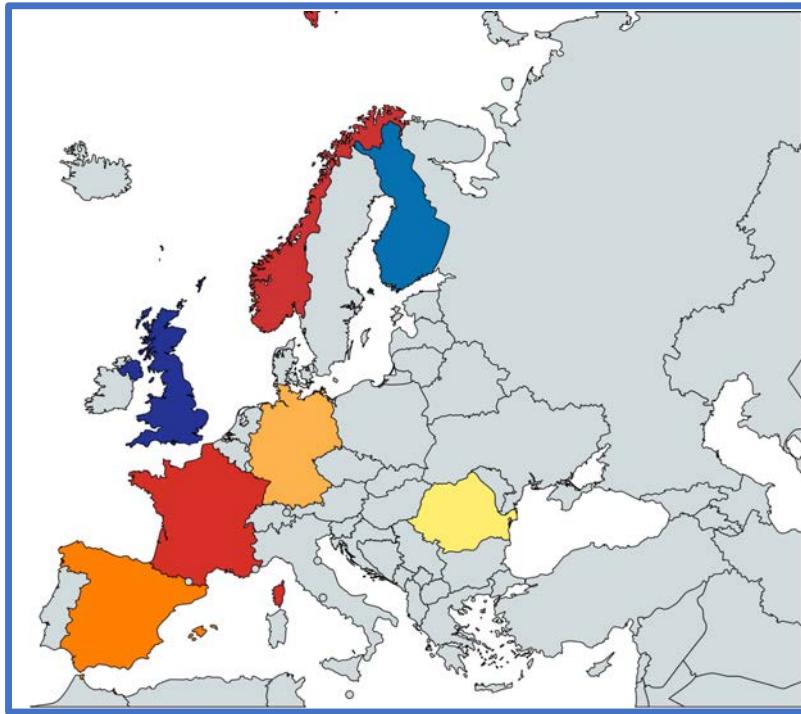
This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148<sup>88</sup>

# Partners..

1. SINTEF AS (Norway)
2. Procter & Gamble Company (UK)
3. Centre for Process Innovation Limited (UK)
4. VTT (Finland)
5. Technology Centre of Metal-mechanical & Transport (Spain)
6. IRIS Technology Group (Spain)
7. Digital Catapult Centre (UK)
8. Cap Digital (France)
9. CODY (Norway)
10. RDIUP (France)
11. Stelar Security Technology Law Research UG (Germany)
12. Effective Decisions (Romania)
13. Dynamic & Security Computations (Spain)
14. WIZ Development (Romania)



This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148



# Motivation & Concept



- Fast-Moving Consumer Goods (FMCG)
  - Key business sector in EU
  - Cost-based processes, thus mass production
  - Personalised/customised production → 'known challenge'
  - Lack of adequate infrastructures → hamper consumers & new actors to participate in design & production

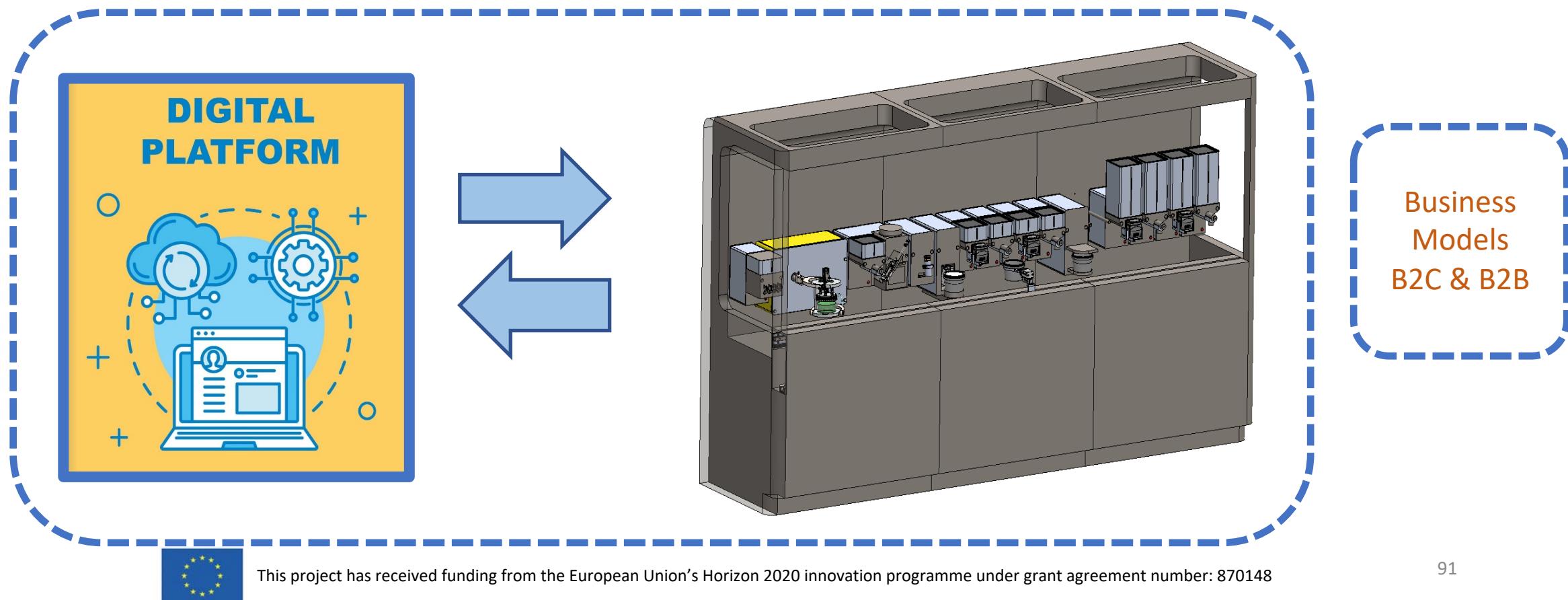
Co-creation through Manufacturing Eco-systems → Customer-driven, Holistic & collaborative production, co-creation through open innovation



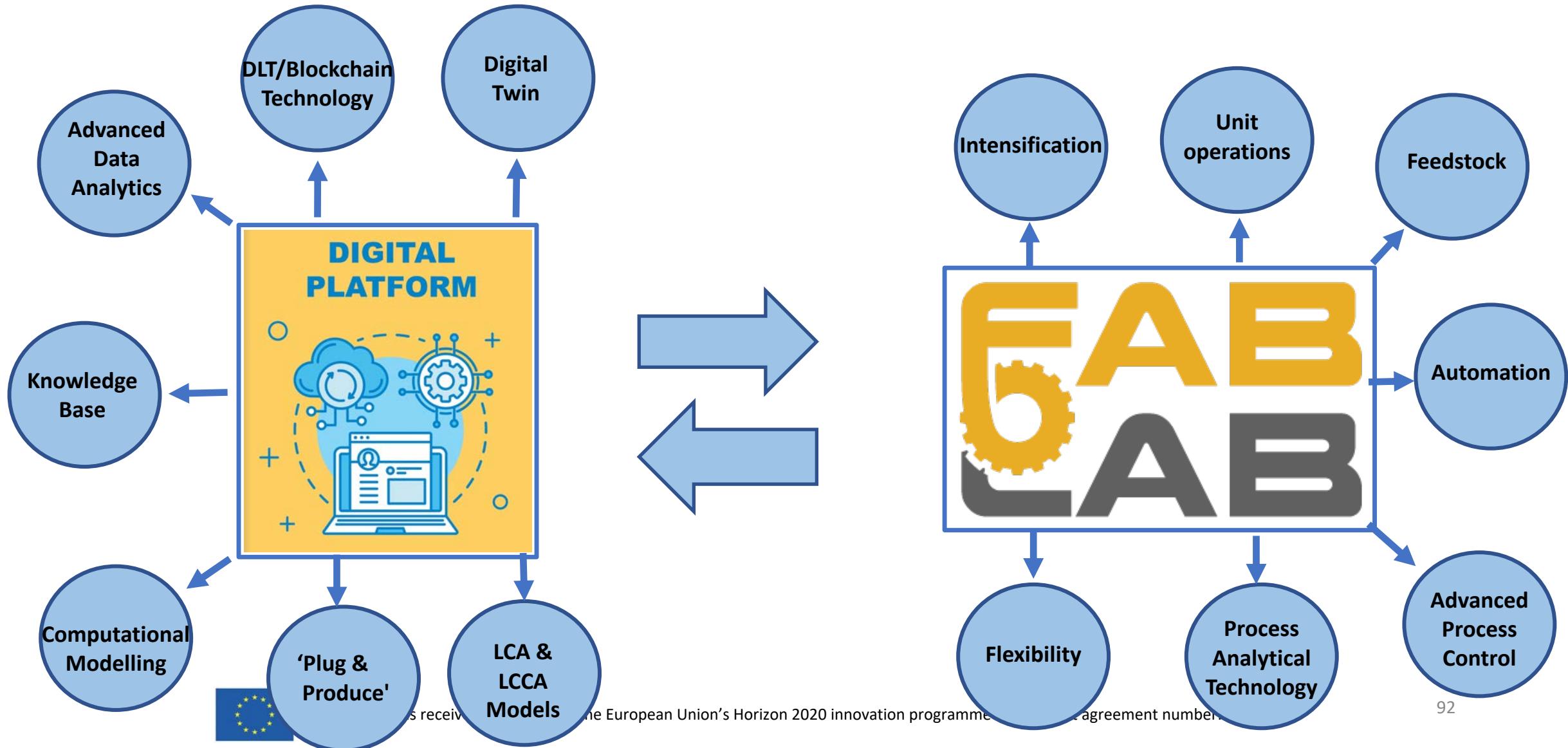
This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148

# FABLabs for digital manufacturing

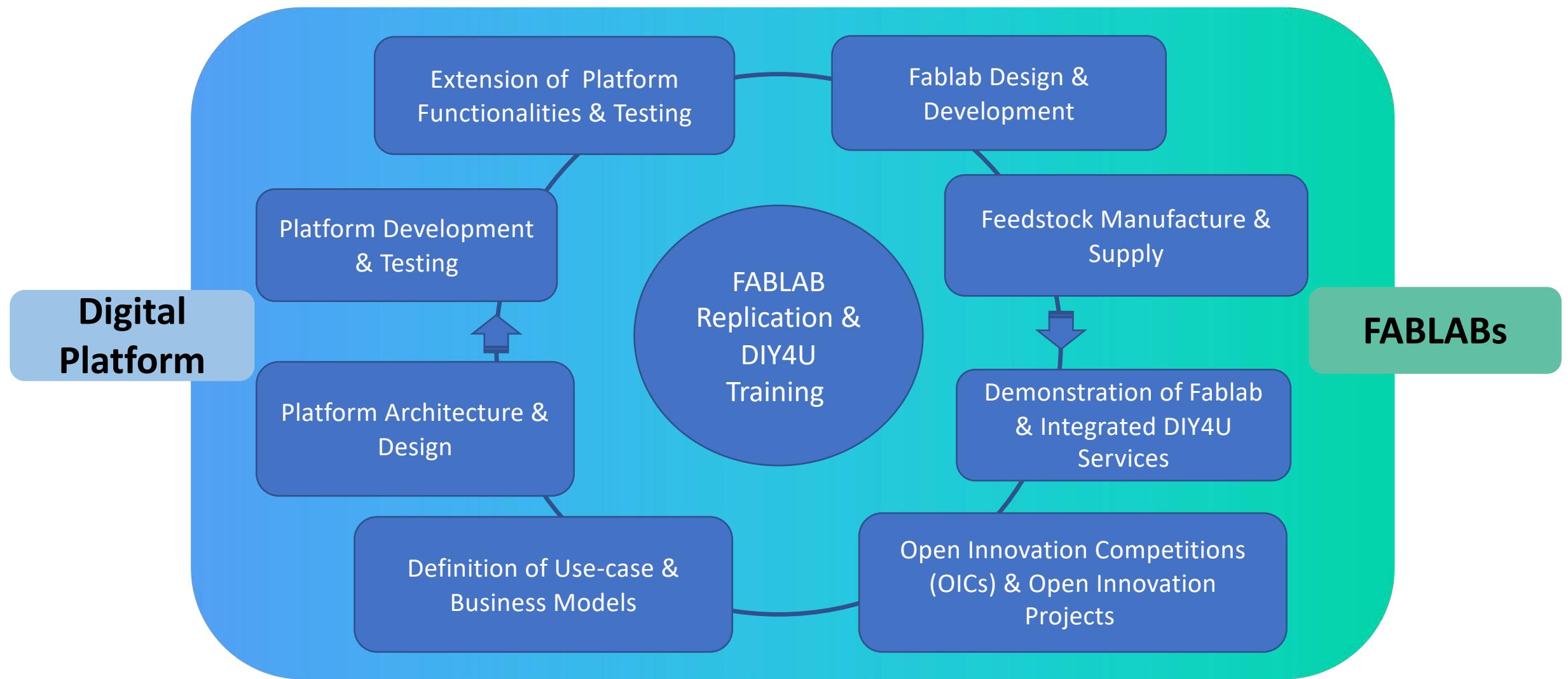
- FABLAB (Fabrication Laboratory)- Digitally enabled, small scale, flexible manufacturing demonstration unit - 'mini-factories'



# DIY4U- Concept & Approach



# Project Structure



This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148

# Post – Project scenario

Process Manufacturing Industries



Food, Pharmaceuticals, Detergent, Cosmetics, Paint.....

Business - to - Consumer (B2C)



Allergy



Dietary



Stain



Supplements



Ingredients



Fragrance



Geography



Color

Industrial R&D (Chemical, Metallurgical, High Performance Materials, Batteries, Fuel Cells etc.)

Business – to - Business (B2B)



'Rapid Prototyping' & Testing of New Formulations



This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148



# Thank you for your attention!

## PROPRIETARY RIGHTS STATEMENT

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This project has received funding from the European Union's Horizon 2020 innovation programme under grant agreement number: 870148

# EU projects Round table – International Panel



**Benjamin Poussard (France)** is a Research Engineer at the Arts et Métiers Institute of Technology, in the Présence & Innovation team based in Laval, France where he leads the technology transfer team. Benjamin has a 10-year expertise in Research and Development in the field of 3D interactive technologies (XR) and teaches AR to master's degree students. He is the coordinator of the H2020 project "INEDIT" funded by the European Commission.

**Waldo Soto (Chile)** is the co-founder of the global change platform "2811" and the Climate Action Academy, a program recognized by the EU Climate-KIC to teach skills and knowledge in climate action. Chilean social entrepreneur and Ashoka foundation consultant.



## 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

**Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions**



UNIVERSITÉ  
DE LORRAINE



ERPI  
École de Recherche sur les Processus Innovants  
Université de Lorraine



LORRAINE  
INP  
Ensgsi  
NANCY



IEEE  
Advancing Technology  
for Humanity



IEEE  
Technology & Engineering  
Management Society



ICE  
International Conference on  
Engineering, Technology and Innovation  
IAMOT



Grand Est  
ALISTRE



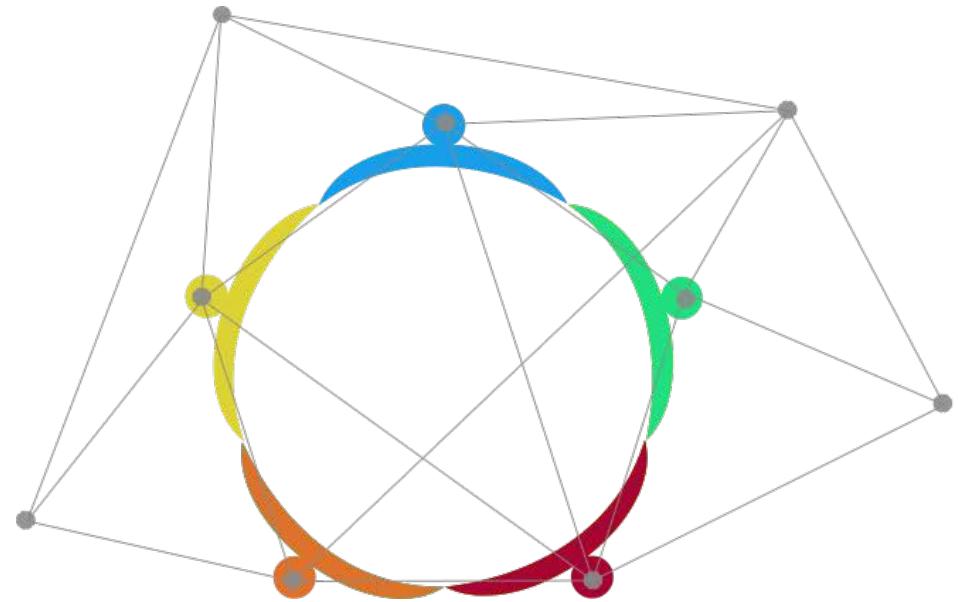
RNI  
RESEARCH  
INNOVATION



ACTIBAC



Nancy



# INEDIT

open INnovation Ecosystems  
for Do It Together process



ICE IAMOT Conference

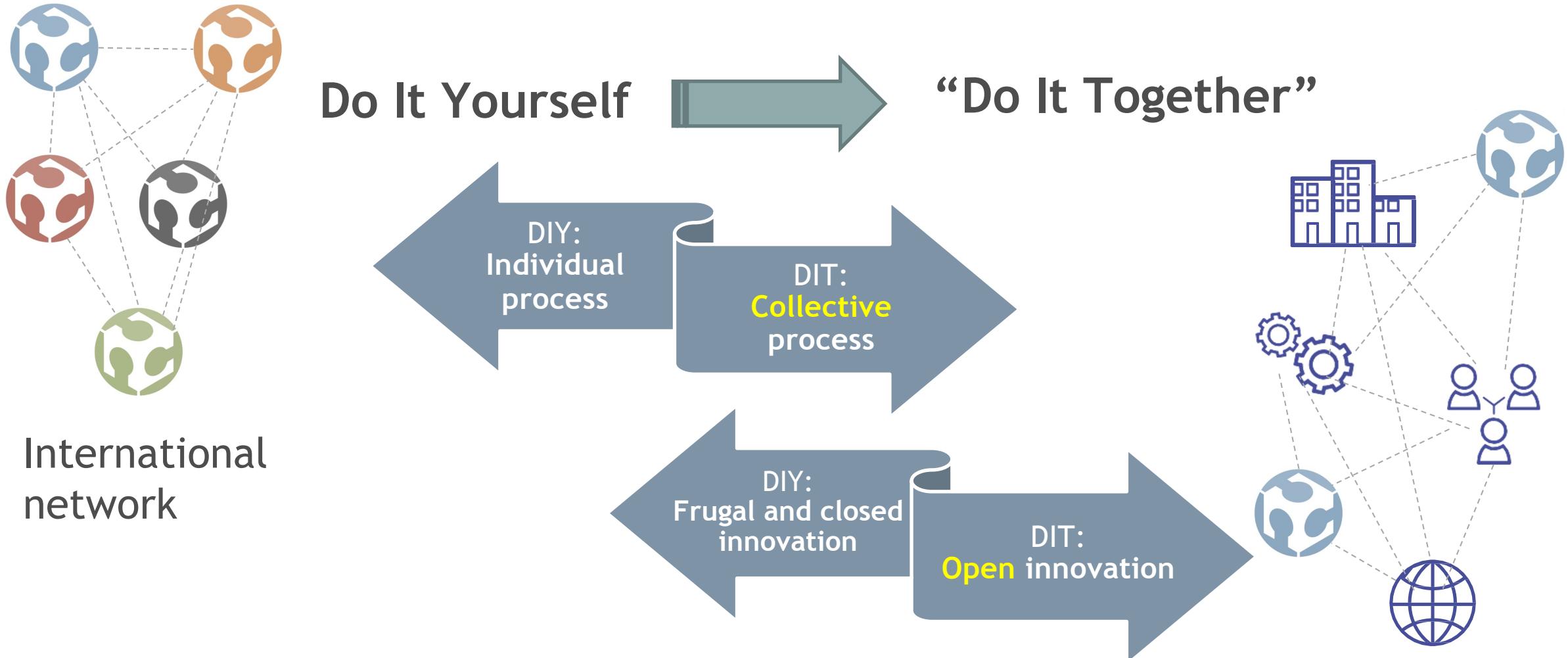


Introduction to INEDIT concepts



Benjamin Poussard - ENSAM - Coordinator

# “DO IT TOGETHER” CONCEPT?



open INnovation Ecosystems for Do It Together process

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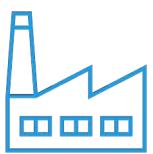
# THE CHALLENGES



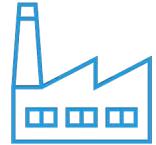
New approaches to capitalise on the knowledge and ideas of design and engineering coming from different and even new actors;



Development of knowledge, technologies and tools to share and analyse relevant data and demands from users as well as to fully enable collaborative engineering in the production network, allowing all actors to propose innovative solutions;



Development of new Manufacturing Demonstration Facilities (MDFs), where companies will test new technologies in cooperation with fablabs and makers in order to develop real industrial products and where training is offered.



Engage consumers in product creation and respond to societal needs

Establish Open-Innovation networks

Create business models for the engineering of customised solutions

Improve the co-design and co-development capabilities

Increase of product variety and personalisation

# THE PROJECT

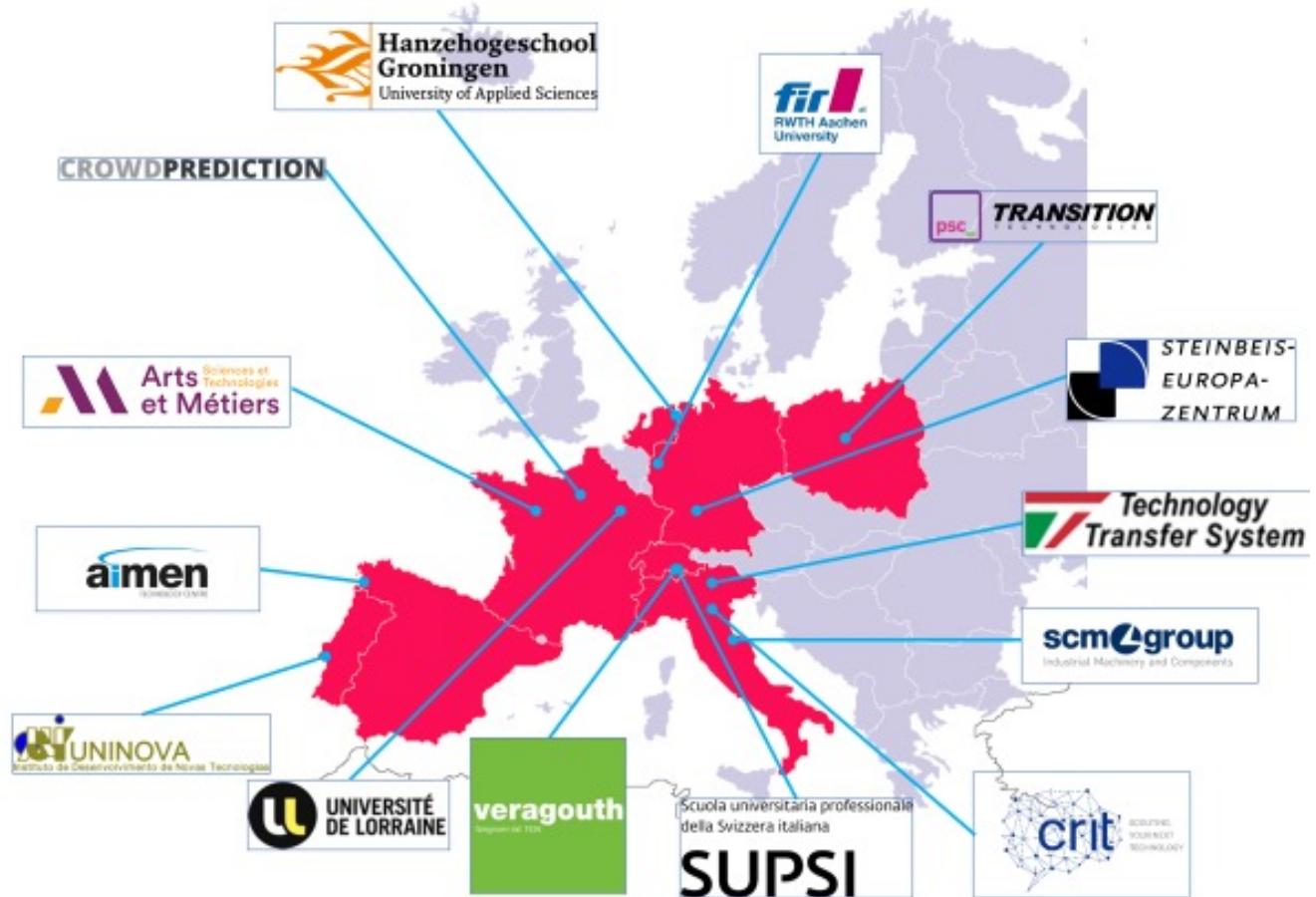
## Introducing the consortium

2  
RTD centers

6  
High Education

2  
Large Companies

4  
SMEs

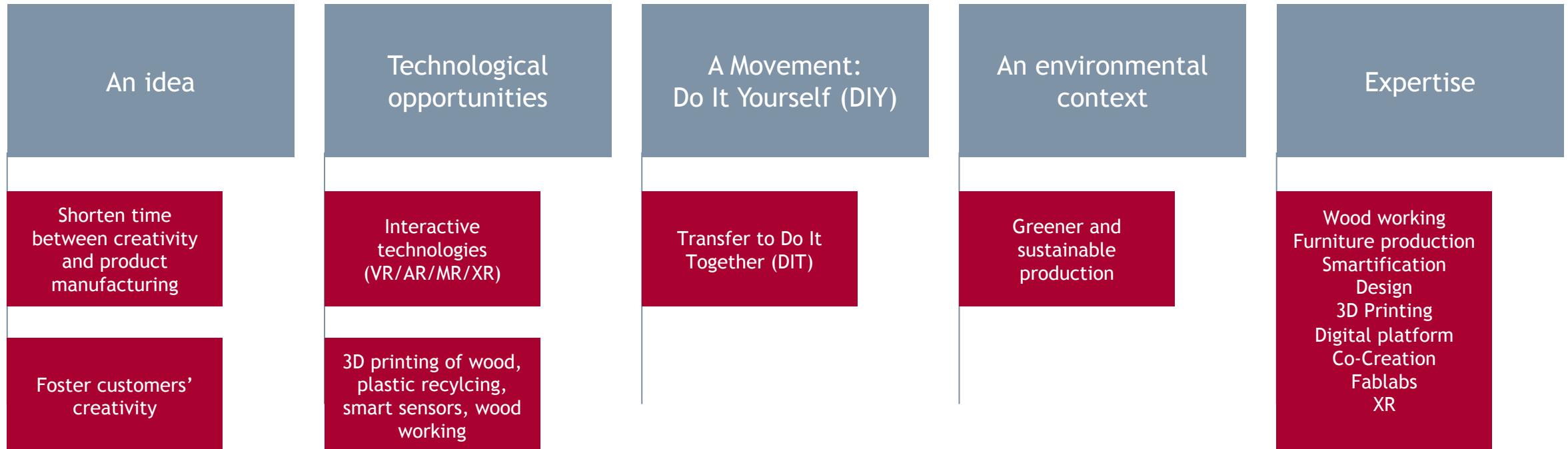


open INnovation Ecosystems for Do It Together process

101

# THE PROJECT

## Where did we start from ?



INEDIT demonstrates the potential innovation of **Social Manufacturing Models**  
creating an **Open Innovation European Do It Together ecosystem**  
for sustainable furniture **co-creation**

## Design Global, Produce Local

---

open INnovation Ecosystems for Do It Together process

103

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 869952



## High Level Objectives

- HL01** To unleash creativity of consumers and designers towards co-creation of new pieces of furniture addressing the needs of the single user in an industrial context.
- HL02** To democratize the access to production resources in the furniture sector.
- HL03** To support SME operating in the furniture sector in finding new business opportunities.
- HL04** To create a framework of solutions for creation, engineering, and distributed production of customer-driven pieces of furniture.
- HL05** To define design and manufacturing strategies focusing on lowering ecological impact and addressing societal challenges.
- HL06** To create an ecosystem of all stakeholders within Europe.



## Our concept

"INEDIT creates an open innovation European DIT ecosystem for sustainable furniture co-creation. It channels the creativity of consumers, shapes it through designers' professional skills, and makes it viable by leveraging on the expertise of production specialists in order to deliver sustainable, smart and personalized new products in a shorter time to market"

→ Prove technical feasibility for the co-creation phase

→ Prove technical feasibility for the open manufacturing phase

→ Prove the business model validity for such a process

A DIT PLATFORM TO FOSTER CREATIVITY AND MAKE CUSTOM FURNITURE  
EVALUATION THROUGH DEMONSTRATORS

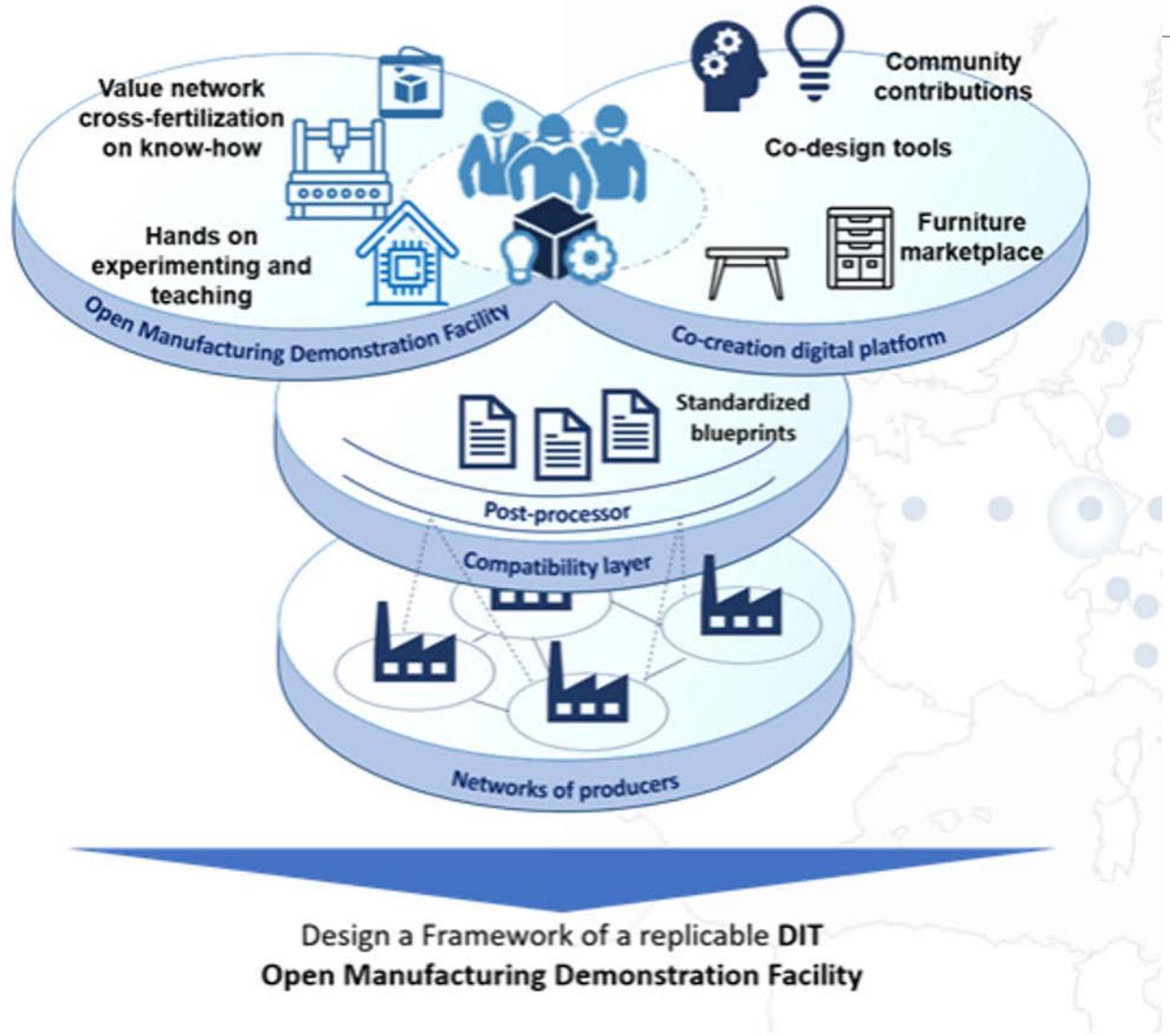
open INnovation Ecosystems for Do It Together process

105



# THE PROJECT

**“Design Global/Customizable and Produce Local”**



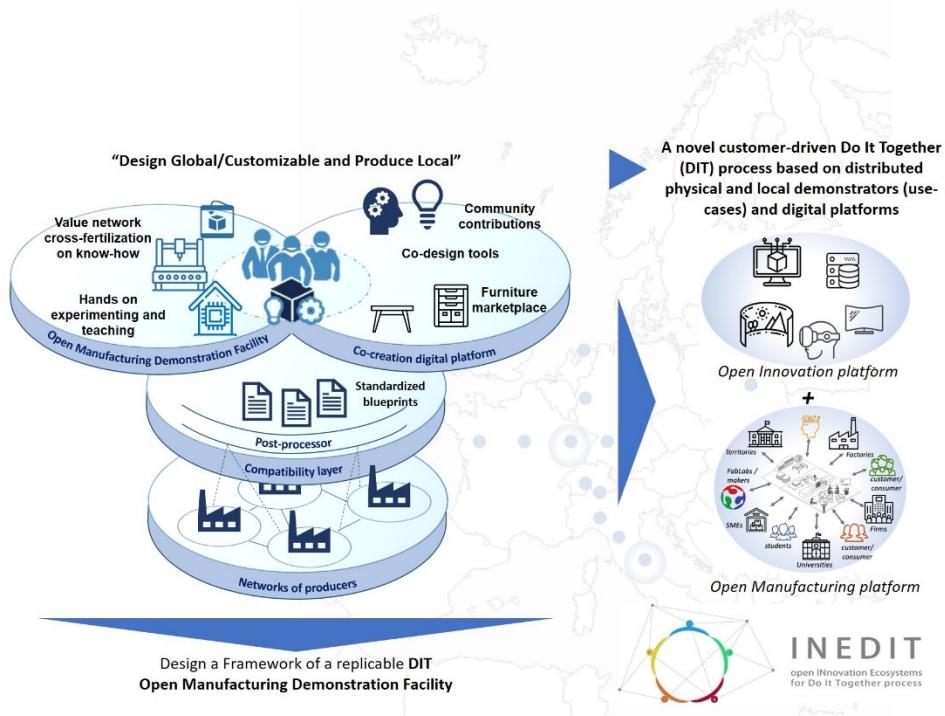
open INnovation Ecosystems for Do It Together process



# THE PROJECT

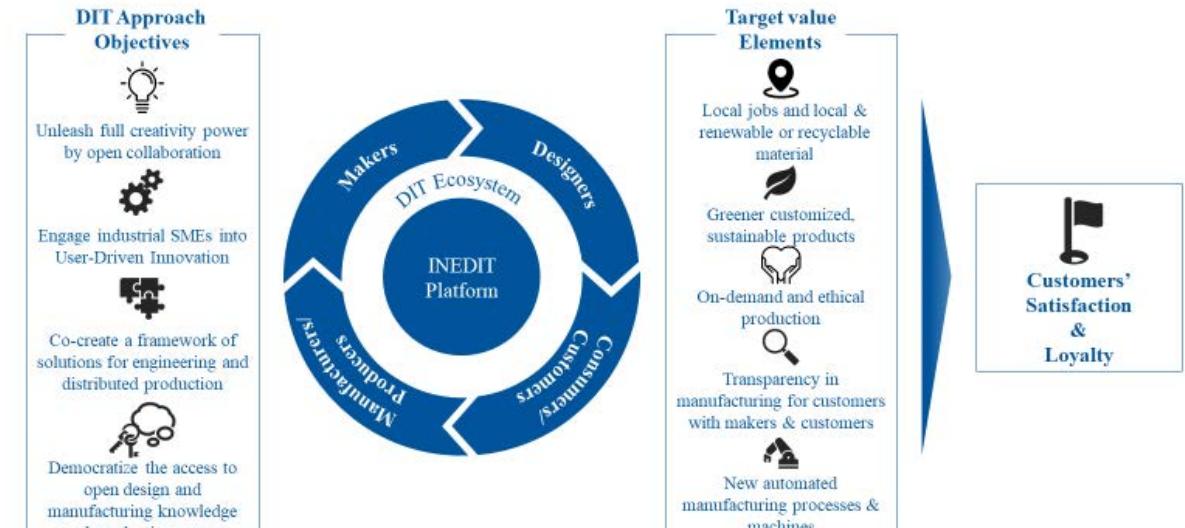
## Our approach

### By building



### We will get

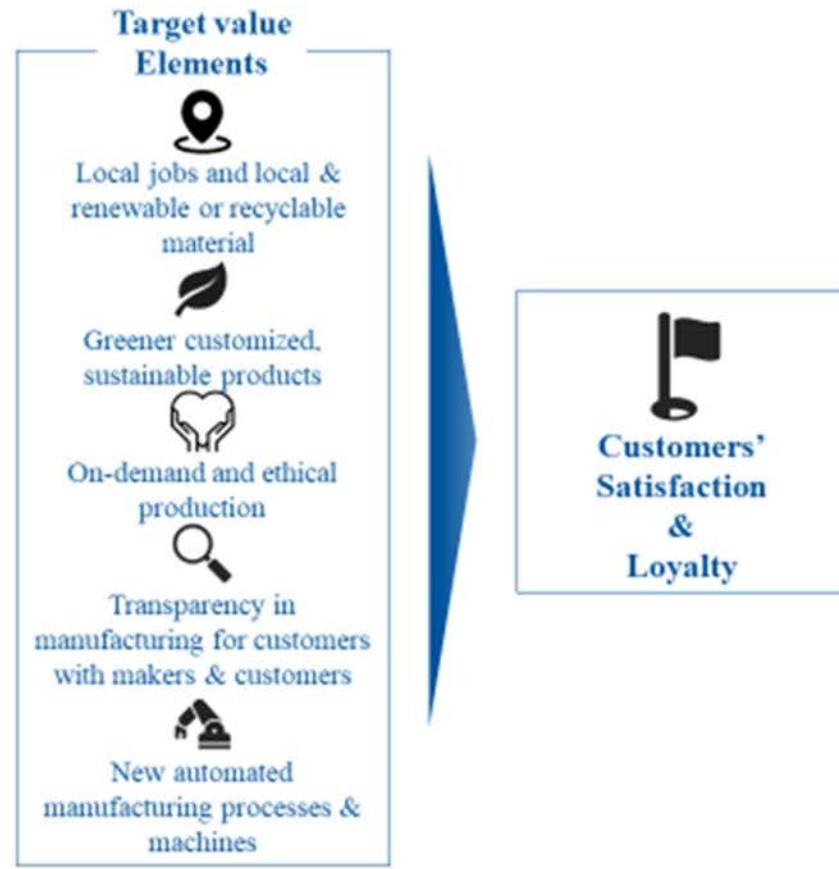
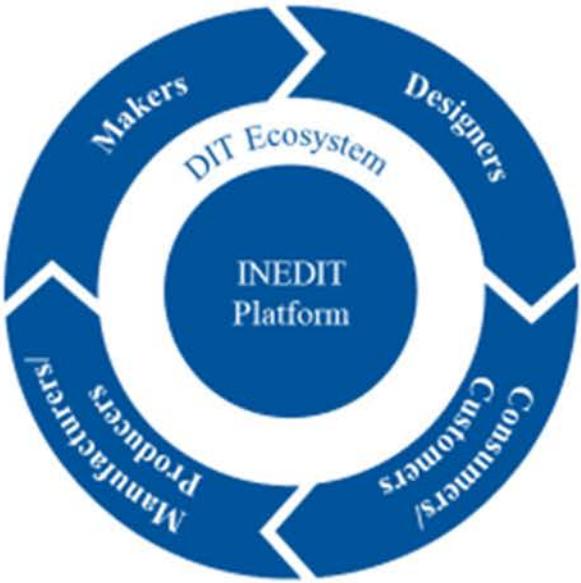
**INEDIT - EU based Open Innovation Ecosystem**  
Towards a more circular economy



open INnovation Ecosystems for Do It Together process

## INEDIT - EU based Open Innovation Ecosystem

Towards a more circular economy



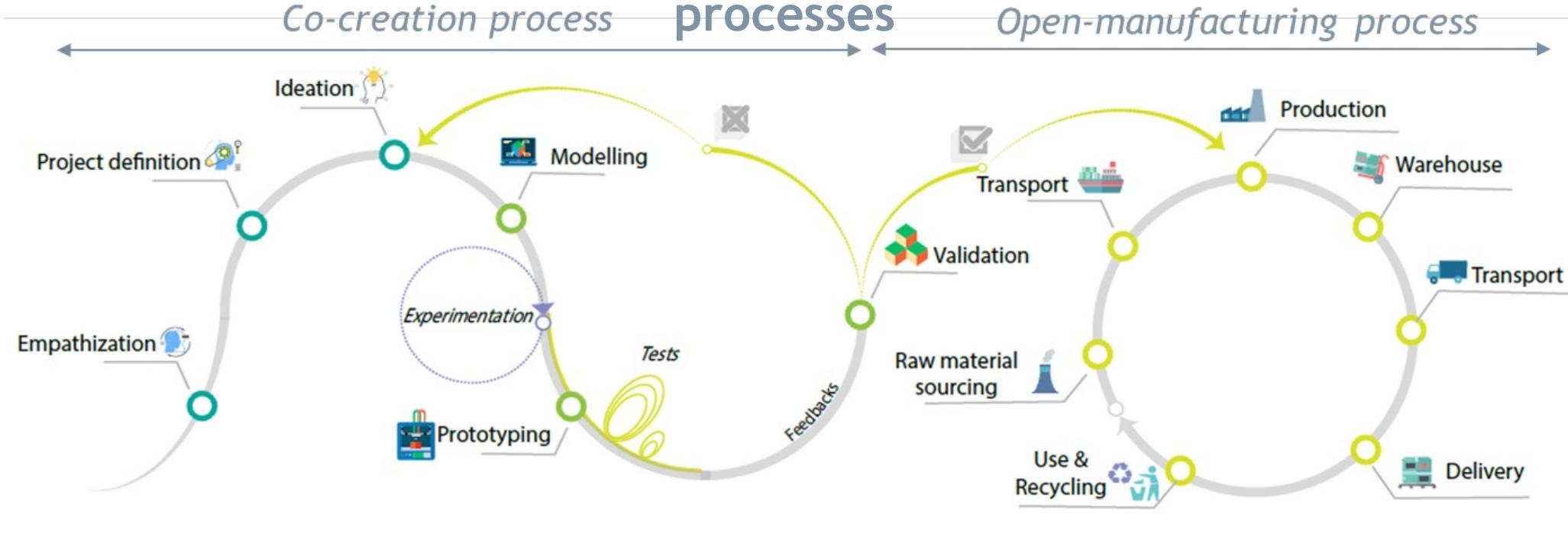
open INnovation Ecosystems for Do It Together process

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## the co-creation and the open-manufacturing processes

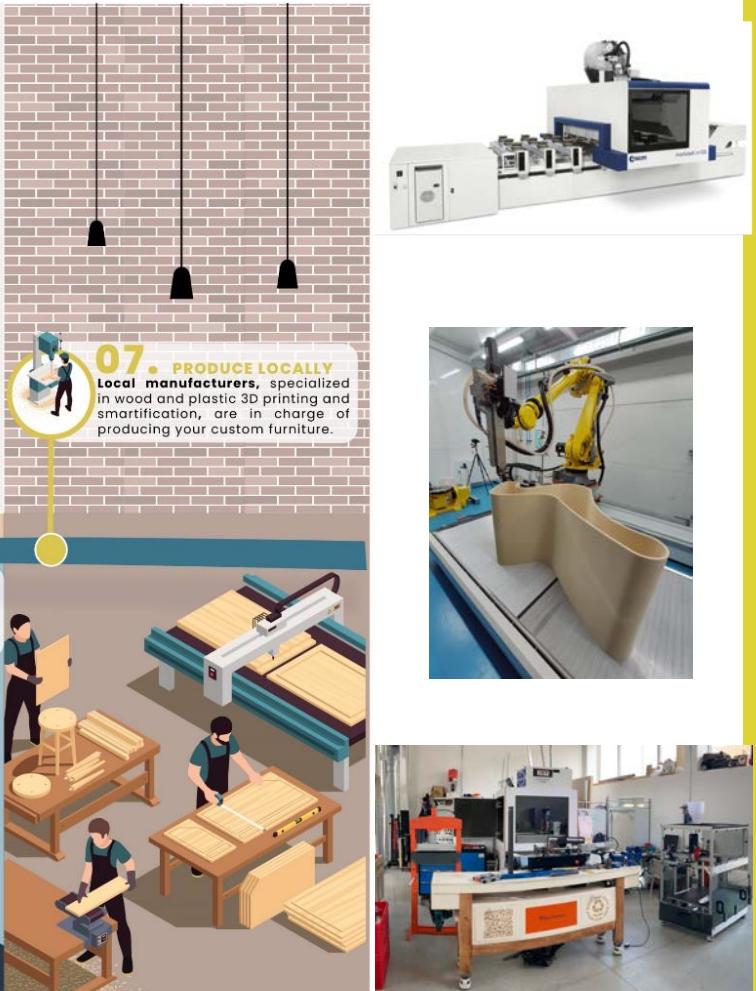
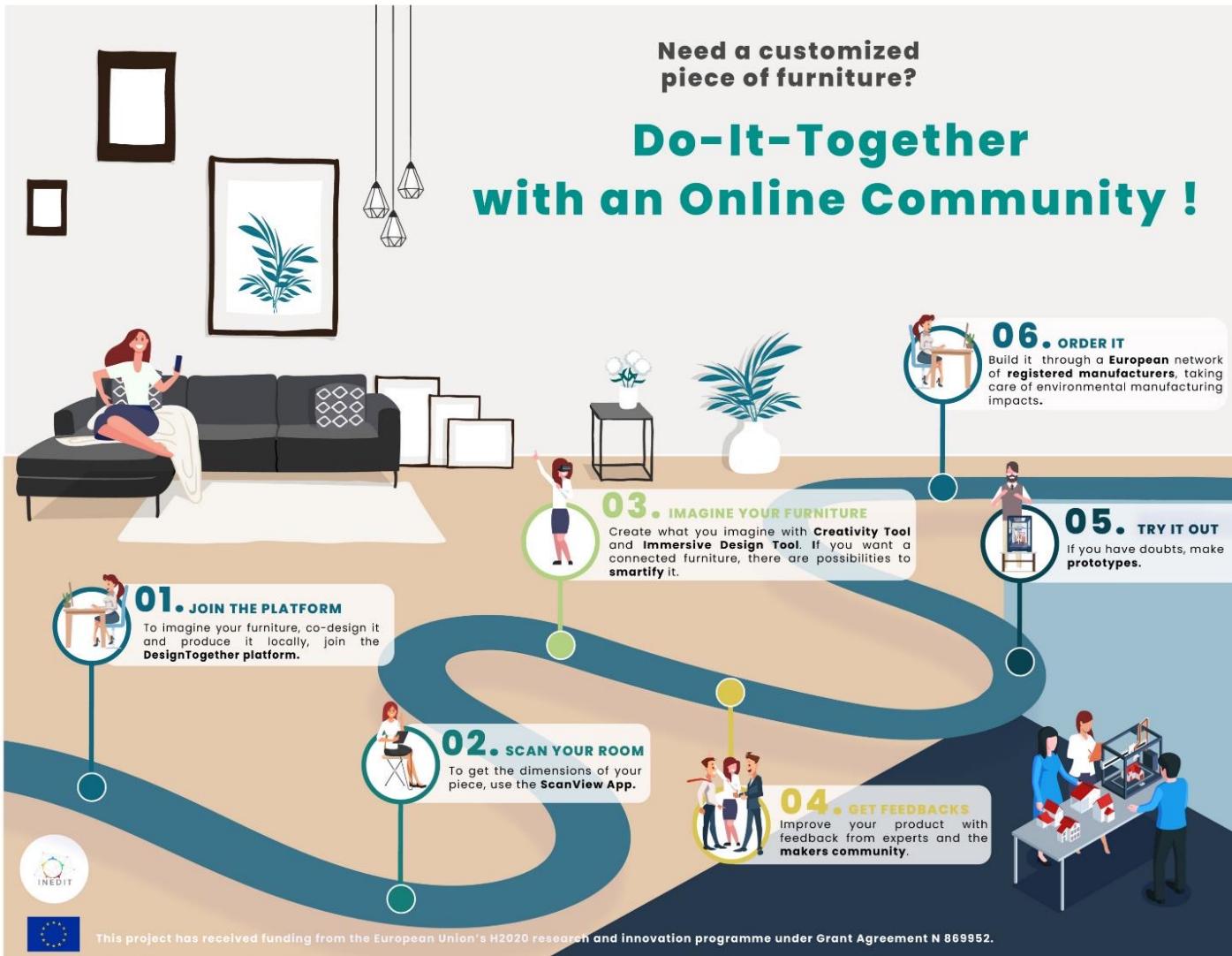


MARCHE Brunelle, KASMI Fedoua, MAYER Frédérique *et al.*, « Implementing Do-It-Together: The Cross-fertilization of Do-It-Yourself and Open Manufacturing », *Journal of Innovation Economics & Management*, 2022/0 (Prepublication), DOI : 10.3917/jie.pr1.0122. URL : <https://www.cairn.info/revue-journal-of-innovation-economics-2022-0-page-1.htm>

Different steps / time / places to involve stakeholders  
& a multi-scale process cognitive / product / Ecosystem

open INnovation Ecosystems for Do It Together process

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 869952



open INnovation Ecosystems for Do It Together process

# OUR ACHIEVEMENTS

Specifications of the «Do It Together» approach:

User-centered Open Innovation Platform

Replicable Open Manufacturing Demonstration Facility

“Do It Together” Business Models



open INnovation Ecosystems for Do It Together process



THANK YOU FOR  
YOUR ATTENTION !



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[info@inedit-project.eu](mailto:info@inedit-project.eu)



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@INEDIT6

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Agreement No. 869952



# EU projects Round table – International Panel

## From technological innovation to social innovation

**Waldo Soto (Chile)** is the co-founder of the global change platform "2811" and the Climate Action Academy, a program recognized by the EU Climate-KIC to teach skills and knowledge in climate action. Chilean social entrepreneur and Ashoka foundation consultant.



### 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions





Climate  
Labs

## Climate-Labs Project: Strengthening applied research and innovation capacities in Latin-America through co-creation labs for mitigation and adaptation to Climate Change.



Waldo Soto - Ashoka & 2811

June 22, 2022



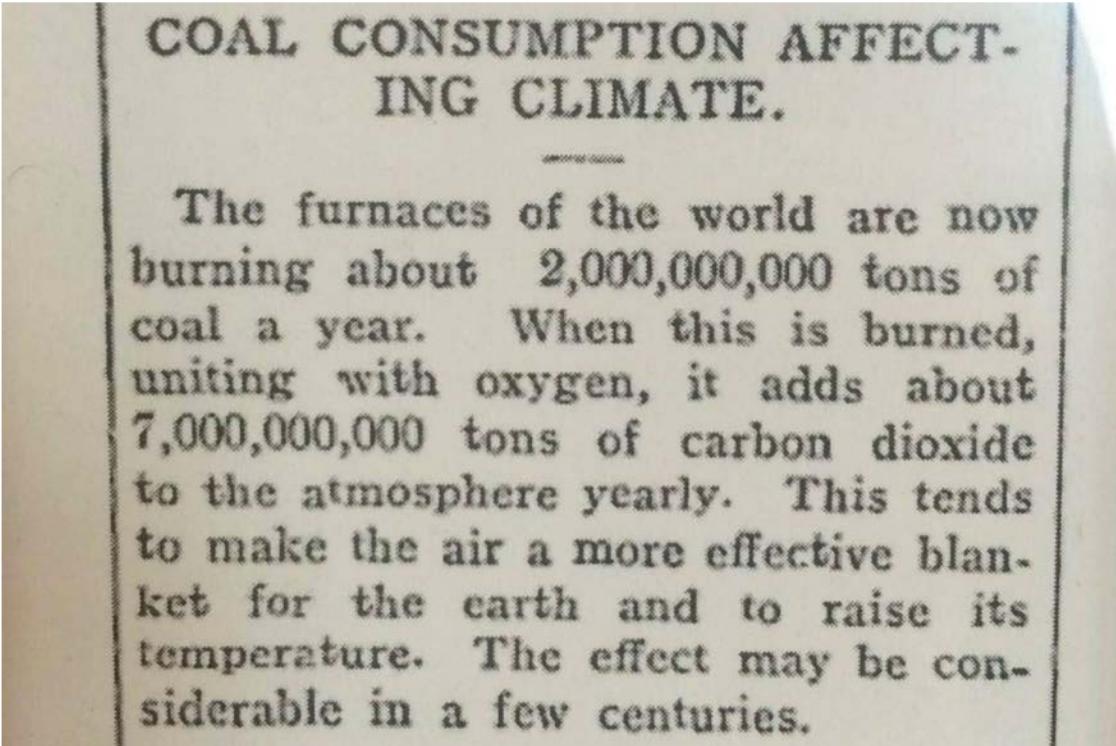
Carbon Neutral Project: The project has offset carbon emissions due to international travel.



Climate  
Labs



Co-funded by the  
Erasmus+ Programme  
of the European Union



August 14, 1912, a newspaper called the Rodney and Otamatea Times,

**COAL CONSUMPTION AFFECTING CLIMATE.**

The furnaces of the world are now burning about 2,000,000,000 tons of coal a year. When this is burned, uniting with oxygen, it adds about 7,000,000,000 tons of carbon dioxide to the atmosphere yearly. This tends to make the air a more effective blanket for the earth and to raise its temperature. The effect may be considerable in a few centuries.

**SCIENCE NOTES AND NEWS.**

**THE POULTRY RUN.**

**WHAT'S NEW IN CAVIAR.**

**SARDINES.**

**THE EARTH IN THE AIR.**

**THE STEAM SHIP AT PAPUA.**

**THE FIRE TRADE.**

**THE LEVEL OF LIFE.**

**THE POLAR BEAR.**

**GREEN CLIMATE AFFECTING CLIMATE.**

**A COOL CLIMATE.**

**THE RODNEY AND OTAMATEA TIMES, WEDNESDAY, AUGUST 14, 1912.**

**FACTS AND FANCIES.**

**A WILDLIFE WILDFIRE.**

**ANECDOTES FROM IRELAND.**

**WHAT'S NEW IN TEA.**

**ANOTHER OPPORTUNITY.**

**SPIDER PROMISES.**

**EXPLORATION.**

**THE FIRE TRADE.**

**THE LEVEL OF LIFE.**

**THE POLAR BEAR.**

**GREEN CLIMATE AFFECTING CLIMATE.**

**A COOL CLIMATE.**

**THE RODNEY AND OTAMATEA TIMES, WEDNESDAY, AUGUST 14, 1912.**

New Zealand, Aug 14, 1912. National Library of New Zealand



Carbon Neutral Project: The project has offset carbon emissions due to international travel.



Co-funded by the  
Erasmus+ Programme  
of the European Union

# World Scientists' Warning of a Climate Emergency

WILLIAM J. RIPPLE, CHRISTOPHER WOLF, THOMAS M. NEWSOME, PHOEBE BARNARD, WILLIAM R. MOOMAW,  
AND 11,258 SCIENTIST SIGNATORIES FROM 153 COUNTRIES (LIST IN SUPPLEMENTAL FILE S1)

## From Publications to Public Actions: The Role of Universities in Facilitating Academic Advocacy and Activism in the Climate and Ecological Emergency

Charlie J. Gardner<sup>1\*</sup>, Aaron Thierry<sup>2</sup>, William Rowlandson<sup>3</sup> and Julia K. Steinberger<sup>4</sup>

<sup>1</sup> Durrell Institute of Conservation and Ecology, University of Kent, Canterbury, United Kingdom, <sup>2</sup> Cardiff School of Social Sciences, Cardiff University, Cardiff, United Kingdom, <sup>3</sup> Division of Arts and Humanities, University of Kent, Canterbury, United Kingdom, <sup>4</sup> Faculté de Géosciences et de l'environnement, Université de Lausanne, Lausanne, Switzerland

Re-framing the threat of global warming: an empirical causal loop diagram of climate change, food insecurity and societal collapse

C. E. Richards<sup>1</sup>  • R. C. Lupton<sup>1,2</sup>  • J. M. Allwood<sup>1</sup> 



Carbon Neutral Project: The project has offset carbon emissions due to international travel.



Climate  
Labs



Co-funded by the  
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# Project partners



UNIVERSITÉ  
DE LORRAINE



2811



UNIVERSIDAD DE  
MANIZALES



UNIVERSIDAD DEL QUINDÍO



UNIMINUTO  
Corporación Universitaria Minuto de Dios



PUCRS





Carbon Neutral Project: The project has offset carbon emissions due to international travel.



Climate  
Labs



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of the European Union  
119



Carbon Neutral Project: The project has offset carbon emissions due to international travel.

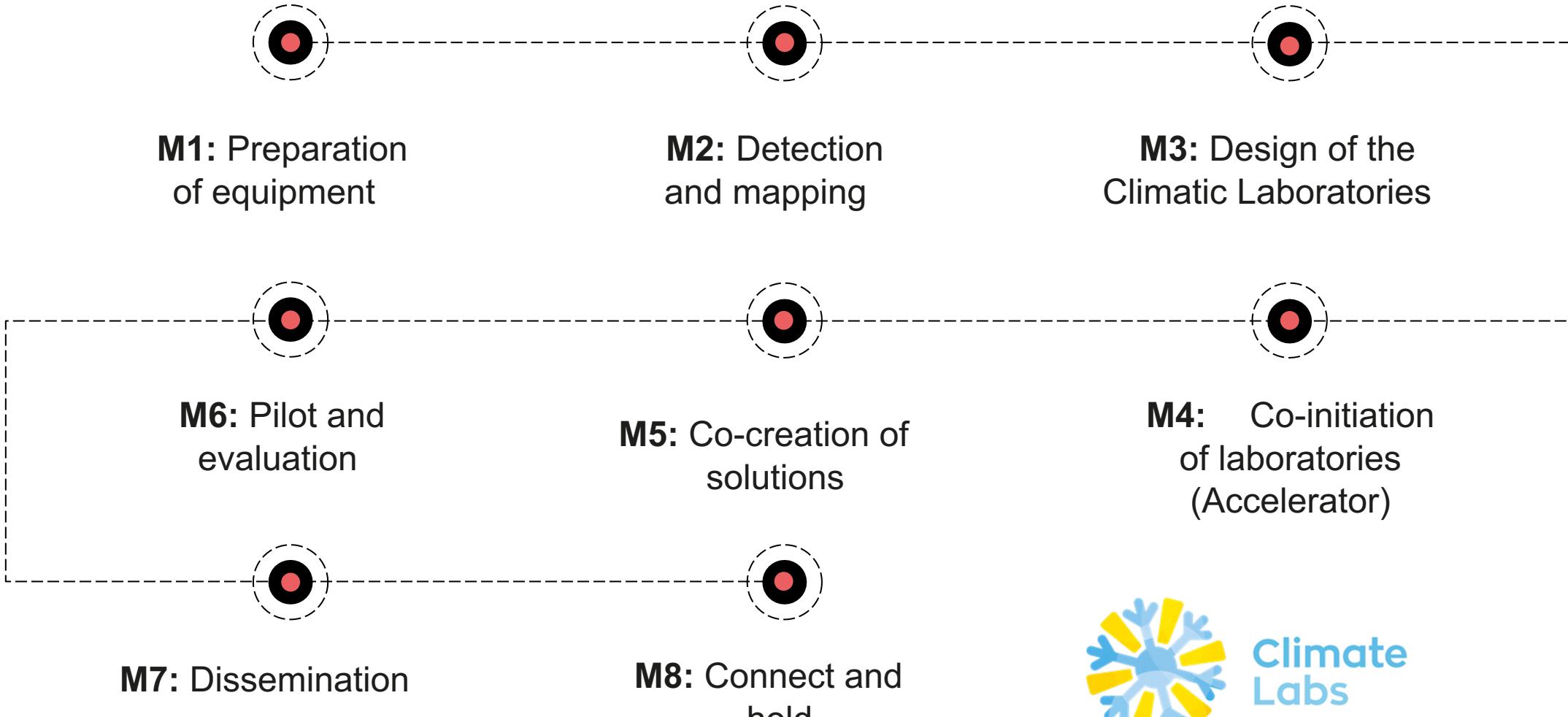


Climate  
Labs



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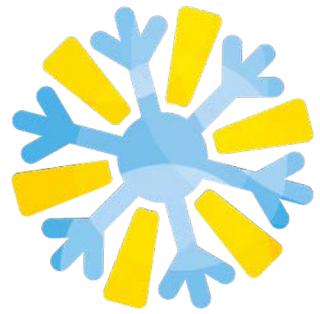
# ClimateLabs: Co-creation process



# Remember!

## Pilots presentation

- Climate change education curricular development
- Participatory assessment of ecosystem services
- Ecosystemic and social analysis of public spaces as strategies for mitigation and adaptation to Climate Change
- Generate adaptations of the coffee value chain through sustainable practices that strengthen local economy resilience.
- Climate education project at the school level



Climate  
Labs

## **Climate-Labs Project: Strengthening applied research and innovation capacities in Latin-America through co-creation labs for mitigation and adaptation to Climate Change.**

June 22, 2022



Carbon Neutral Project: The project has offset carbon emissions due to international travel.



Climate  
Labs



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## EU projects Round table

# Open innovation technologies communities

# as enablers of

# socio-economical transitions

?

# Some definitions and actions

# Debate

# We will shed light on the context



**2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE**

# **Technology, Engineering and Innovation Management Communities as Enablers for Social Ecological Transitions**



# Responsible Research and Innovation: new methodological approaches and practical insights

Wednesday 22<sup>nd</sup> June

**9:00-10:30:**

*Round table: cross reflexion about four European projects relating to digitalization, open manufacturing, transformation of European industry through the integration of digitisation and other enabling technologies*

- Presentation about DigiTerri: Marianne
- Debate

**11:00 – 12:30 second workshop: responsible digitalization: the example of the DigiTeRRI project**

Presentations (10'):

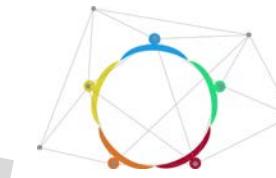
- RRI definition –mario+Nhiem
- Implementation of Responsible Digitalization: the necessary adaptation to the context (Manfred)
- Territorial strategy for Responsible Digitalization implementation: the methodologies (roadmapping and vision definition) and the roadmap presentation of three european territories (Nhiem/Jens)
- Practices and actions to stimulate Responsible Digitalization in Styria (Brigitte)
- Practices and actions to stimulate Responsible Digitalization in Värmland (Eamonn/Malin)
- Practices and actions to stimulate Responsible Digitalization in Grand Est (grand est)

**ICE IAMOT  
CONGRESS**  
**Program suggestion  
by V. Boly**



# Workshop: Wed. 22<sup>nd</sup> June 11:00 – 12:30 – Auditorium

From concept (morning) to open demonstrator (afternoon)



INEDIT  
open INnovation Ecosystems  
for Do It Together process

Co-designing Open innovation, technologies & communities to enable socio-economical transition:  
practices and actions

Transforming industry and territories developing of new Manufacturing Demonstration Facilities (MDFs):

DIY4U, iProduce, INEDIT, Open\_Next



OPEN!  
NEXT

TRANSFORMING COLLABORATIVE  
PRODUCT CREATION

# Emerging Trends and Innovations in Project Management

## *Wednesday 22<sup>nd</sup> June 13:30 – 16:30 – Auditorium*

Chairs: Robert Bierwolf, IEEE TEMS & Prof. Davy Monticolo (ICE-IAMOT team)

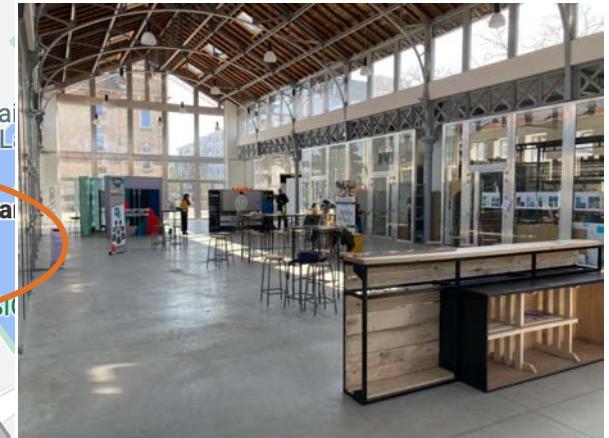
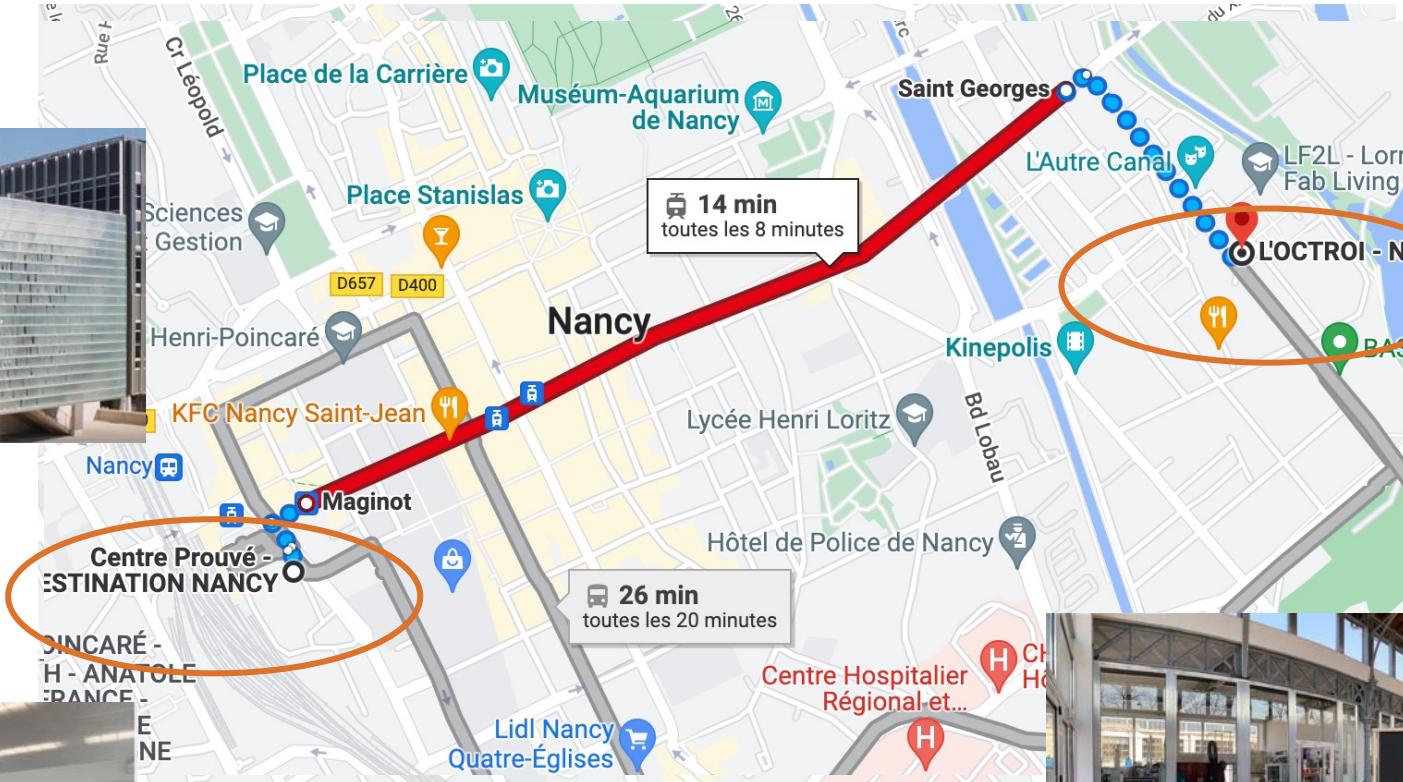
- 13:30 Robert Bierwolf - Towards PM2030 – Research through Project Management
- 13:45 Anna Schidek - Agilization in MedTech
- 14:00 Phillip Hansen - Fuzzy Expert System for Estimation
- 14:15 Markus Schmidtner - PM Context Modeling
- 14:30 Holger Timinger - Weighting of project management process parameters
- 14:40 coffee Break
- 15:00 1 Hour HyValue Presentation (20 Min incl. 5 min discussion each)
- 15:00 Markus Schmidtner - Interorganizational Project Management in the automotive Industry
- 15:20 Alexander Ziegler- From Cooperation to Collaboration: Sociological Insights into Digital Collaboration Platforms in the Automotive Value Chain
- 15:40 Kirsten Hentschl & Andreas Trautheim-Hofmann - Digital Transformation of Project Schedule Management and Synchronization (PSMS) in Collaboration Networks
- 16:00 Open Discussion
- 16:15 End of Workshop

Contact: [Markus.Schmidtner@haw-landshut.de](mailto:Markus.Schmidtner@haw-landshut.de)

# From concept to open demonstrator - Living Lab approach at L'Octroi Nancy -



Wed. 22 June  
Morning



Wed. 22 June  
afternoon





Wed. 22<sup>nd</sup> June 14:00 – 18:00 – Octroi Nancy

## Innovative Design Factory in the City at L'OCTROI Nancy



Green FAB LAB



Immersive  
environment



OPEN!  
NEXT

DIYU

PRODUCE

Hang Printer  
(in progress)





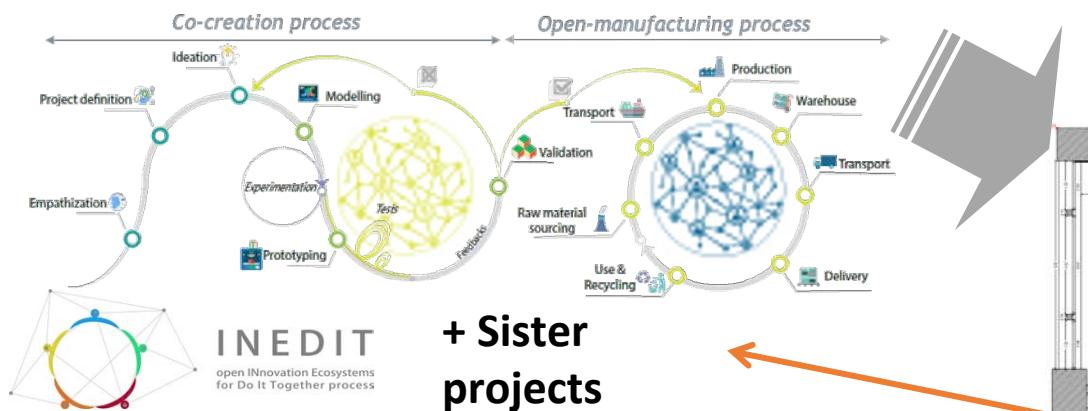
*Wed. 22<sup>nd</sup> June 14:00 – 18:00 – Octroi Nancy*

## Innovative Design Factory in the City at L'OCTROI Nancy



*Demonstrator (TRL4 to TRL6), involving and making links between EU sister projects, to work on the European industry transformation through the integration of digitisation and other enabling technologies and achieve global industrial leadership*

- > Experiment The Do It Together process, DesignTogether Apps and Open Manufacturing Demonstrator Facilities
- > Open-Source Hardware exhibition and associated business model
- > Involve researchers, practitioners, industrialists, SMEs in a space supporting creative communities (L'Octroi Nancy – the Creative and Citizen Third-Place of the City of Nancy)
- > Strengthen the transfer to industrial companies of the Do It Yourself (DIY), fablabs, micro-factories and makers approaches
- > etc.



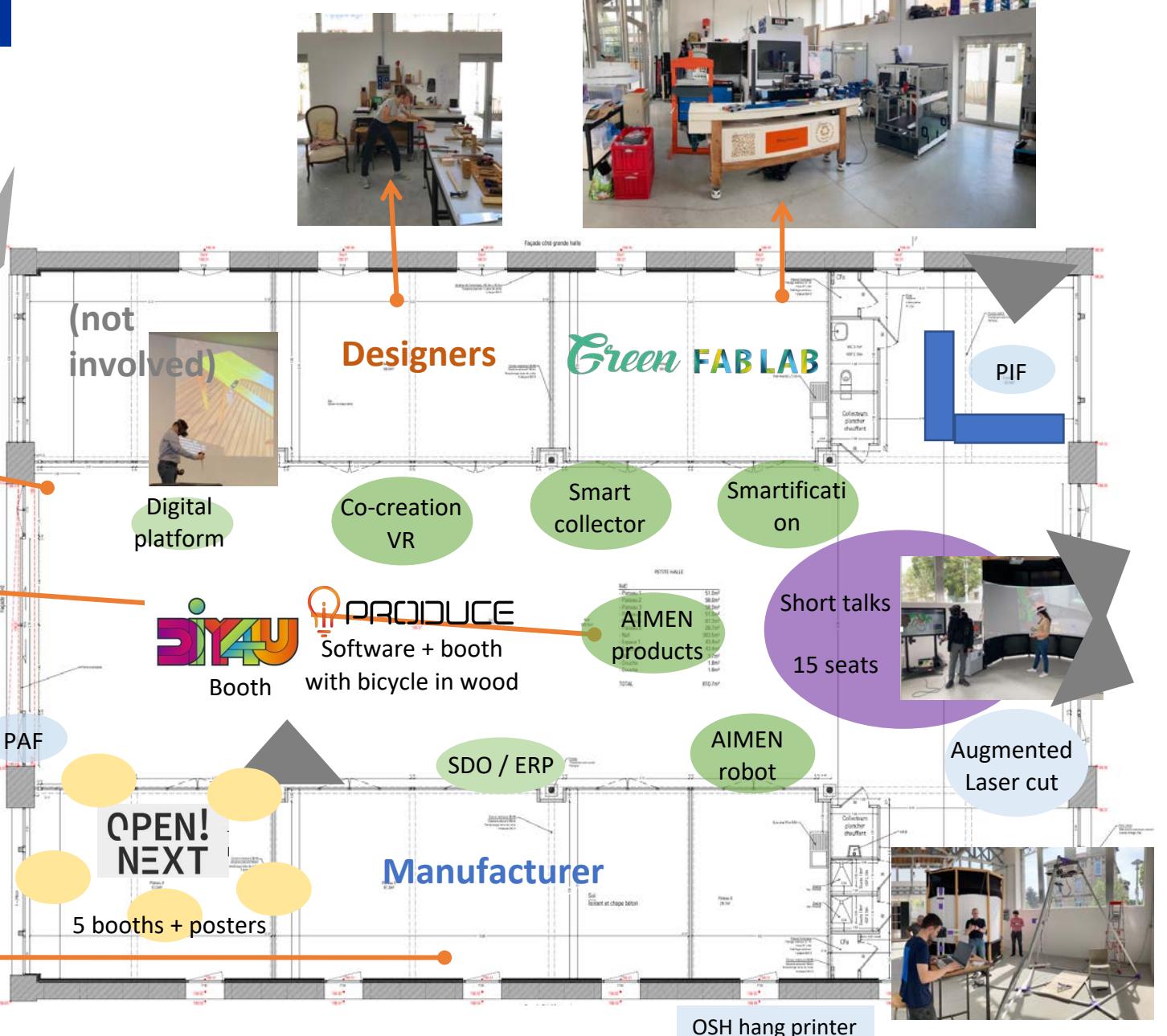
- Technologies
- Short talks
- Booths



Mock-up of the 3D printer robot + production



22/06/2022

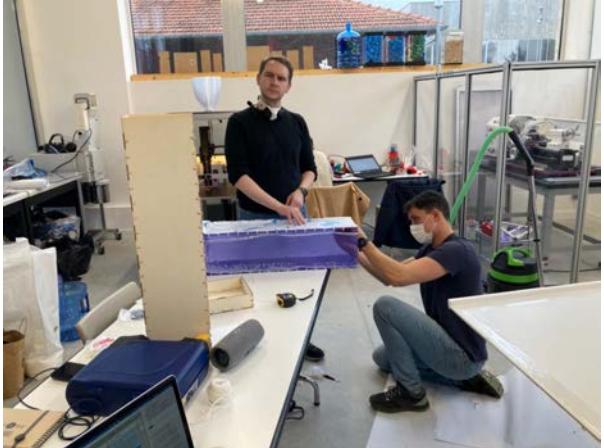


# Green FAB LAB

Open and creative ecosystem supported by



GA 869952



22/06/2022

2022 IEEE 28th ICE/ITMC & 31st IAMOT Joint Conference



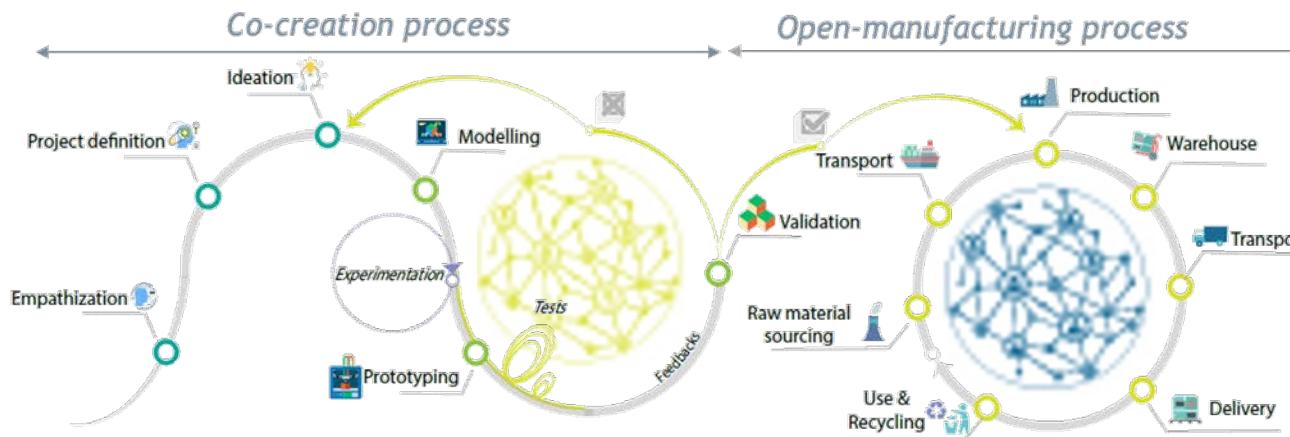
LORRAINE FAB  
LIVING LAB®



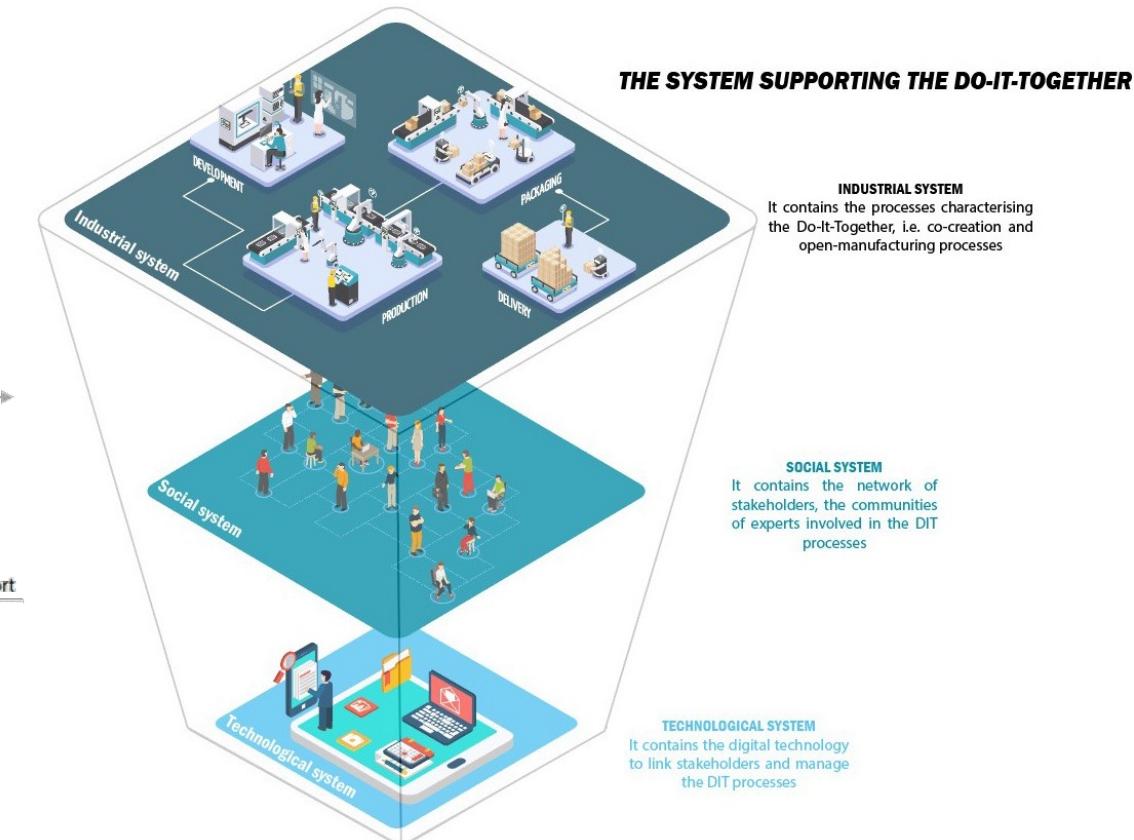
132



Wed. 22<sup>nd</sup> June 9:00 – 12:30



## Zoom on INEDIT



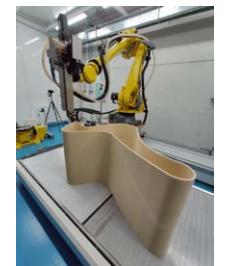
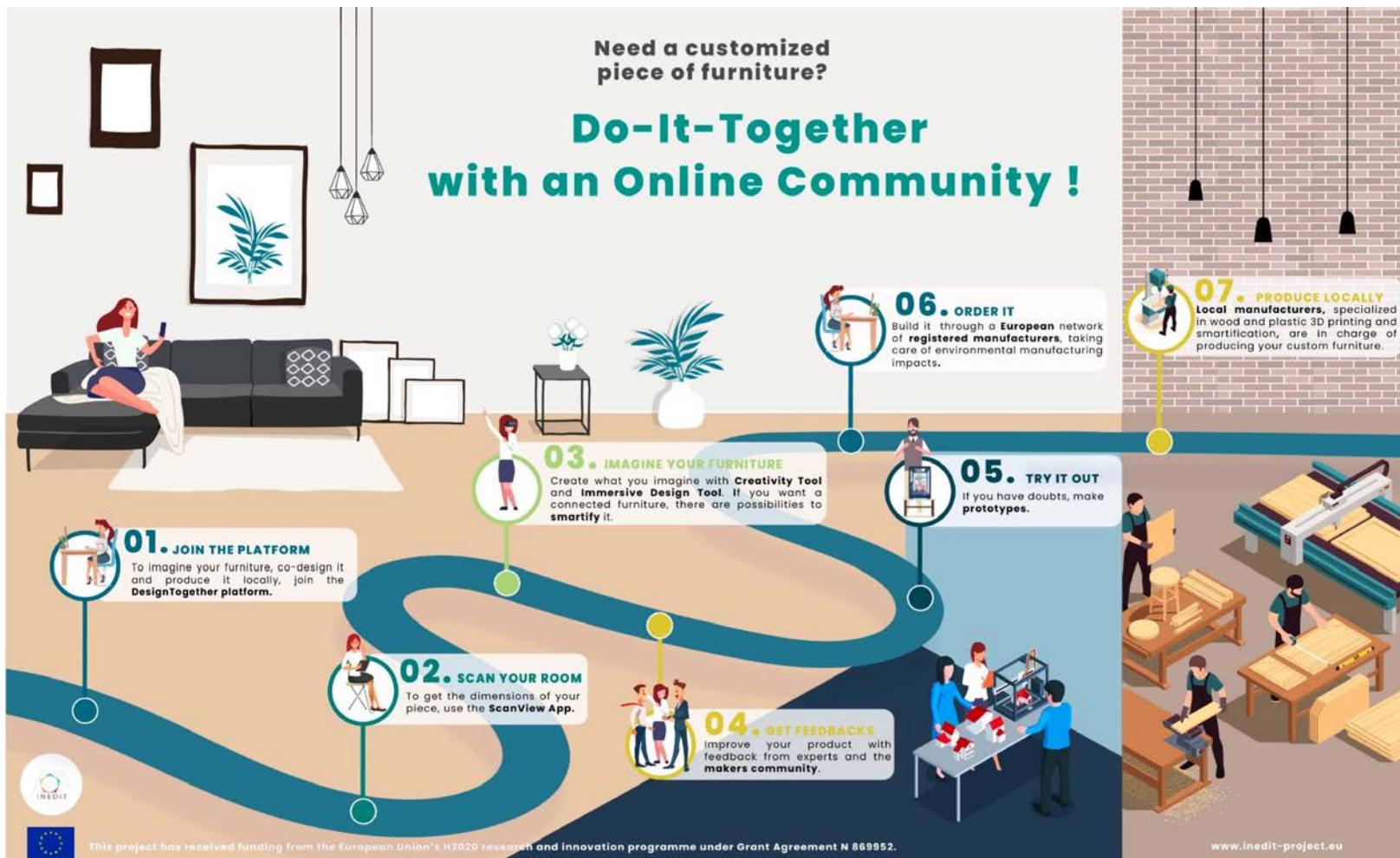
MARCHE Brunelle, KASMI Fedoua, MAYER Frédérique *et al.*, « Implementing Do-It-Together: The Cross-fertilization of Do-It-Yourself and Open Manufacturing », *Journal of Innovation Economics & Management*, 2022/0 (Prepublication), DOI : 10.3917/jie.pr1.0122. URL : <https://www.cairn.info/revue-journal-of-innovation-economics-2022-0-page-1.htm>



Wed. 22<sup>nd</sup> June 14:00 – 18:00 - Zoom on INEDIT



Living Lab demonstrator  
at l'Octroi Nancy:  
INEDIT User path





# Zoom on INEDIT



**DESIGN TOGETHER  
PLATFORM & SCANVIEW  
APP**

**01.JOIN THE  
PLATFORM**

**02. SCAN  
YOUR ROOM**

INEDIT FANVOICE Arts et Métiers Technology Transfer System

This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.

## INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS

**PF1.** Design a customized product for users with the help of other specialized stakeholders

Low High

**PF2.** Co-design with other stakeholders and users using the platform

**PF3.** Produce a customized product for users with the help of other specialized stakeholders

**PF4.** Produce in network with other stakeholders using the platform

**PF5.** Provide services to users through the platform

**SF1.** Provide manufacturing data to the platform

**SF2.** Share environmental practices to the other stakeholders

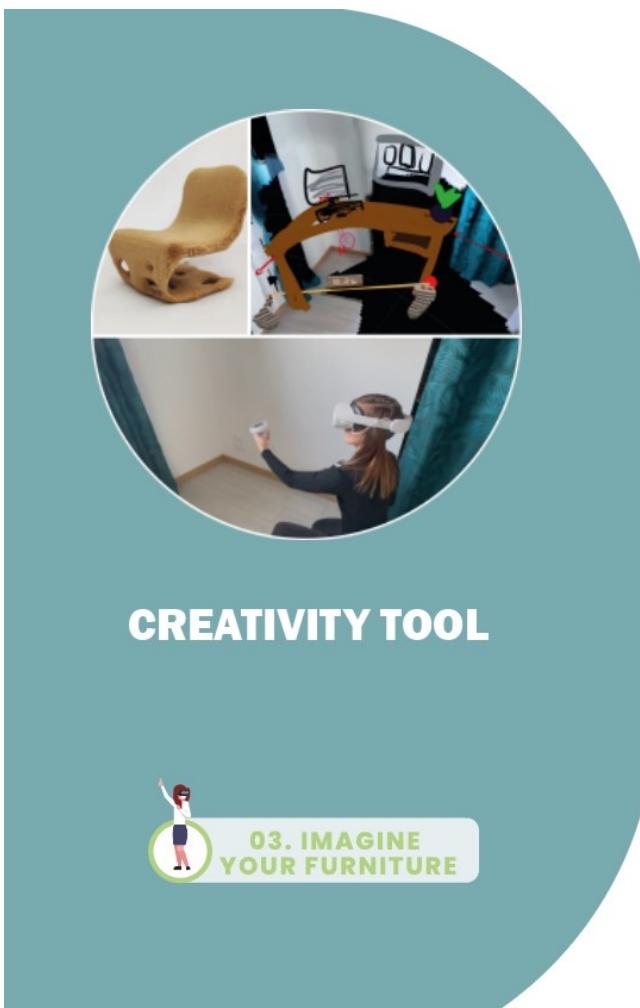
**SF3.** Share manufacturing data for design to the users

**SF4.** Insert into the territory

**CF1.** Adjust to the pillars of the circular economy

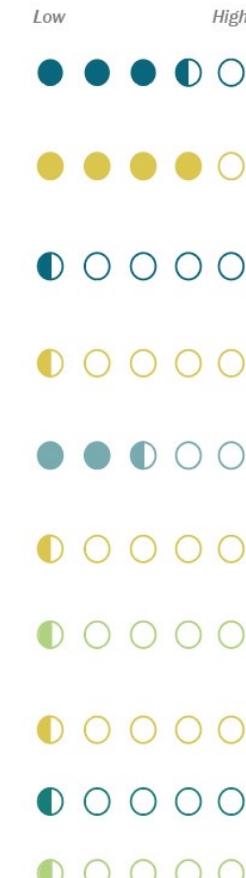


## Zoom on INEDIT



## INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS

- PF1.** Design a customized product for users with the help of other specialized stakeholders
  - PF2.** Co-design with other stakeholders and users using the platform
  - PF3.** Produce a customized product for users with the help of other specialized stakeholders
  - PF4.** Produce in network with other stakeholders using the platform
  - PF5.** Provide services to users through the platform
  - SF1.** Provide manufacturing data to the platform
  - SF2.** Share environmental practices to the other stakeholders
  - SF3.** Share manufacturing data for design to the users
  - SF4.** Insert into the territory
  - CF1.** Adjust to the pillars of the circular economy



This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.



# Zoom on INEDIT



**IMMERSIVE DESIGN TOOL**

03. IMAGINE YOUR FURNITURE

## INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS

**PF1.** Design a customized product for users with the help of other specialized stakeholders

Low High

**PF2.** Co-design with other stakeholders and users using the platform

**PF3.** Produce a customized product for users with the help of other specialized stakeholders

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**SF4.** Insert into the territory

**CF1.** Adjust to the pillars of the circular economy

This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.



# Zoom on INEDIT



MANUFACTURING OF WOOD FURNITURE & INNOVATION HUB

04. GET FEEDBACKS      07. PRODUCE LOCALLY

INEDIT  
open INnovation Ecosystems for Do It Together process

scm group  
vergouth xilema

## INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS

	Low	High
<b>PF1.</b> Design a customized product for users with the help of other specialized stakeholders	● ● ● ● ○	
<b>PF2.</b> Co-design with other stakeholders and users using the platform	○ ○ ○ ○ ○	
<b>PF3.</b> Produce a customized product for users with the help of other specialized stakeholders	● ● ● ● ● ○	
<b>PF4.</b> Produce in network with other stakeholders using the platform	○ ○ ○ ○ ○ ○	
<b>PF5.</b> Provide services to users through the platform	○ ○ ○ ○ ○ ○	
<b>SF1.</b> Provide manufacturing data to the platform	○ ○ ○ ○ ○ ○	
<b>SF2.</b> Share environmental practices to the other stakeholders	○ ○ ○ ○ ○ ○	
<b>SF3.</b> Share manufacturing data for design to the users	○ ○ ○ ○ ○ ○	
<b>SF4.</b> Insert into the territory	● ○ ○ ○ ○ ○	
<b>CF1.</b> Adjust to the pillars of the circular economy	○ ○ ○ ○ ○ ○	

This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.

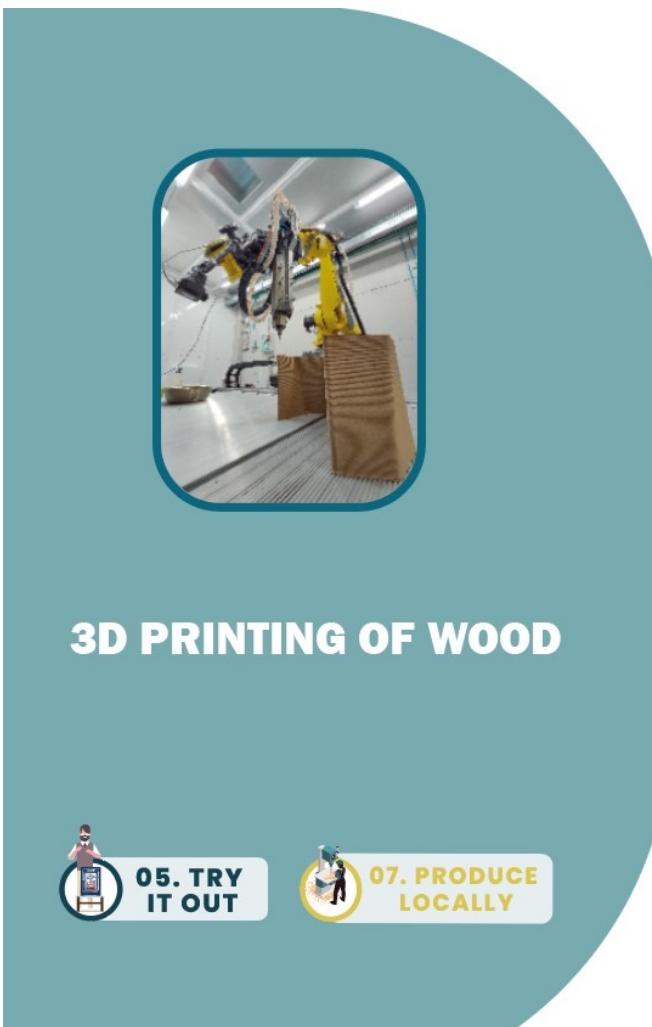
22/06/2022

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# Zoom on INEDIT



# 3D PRINTING OF WOOD

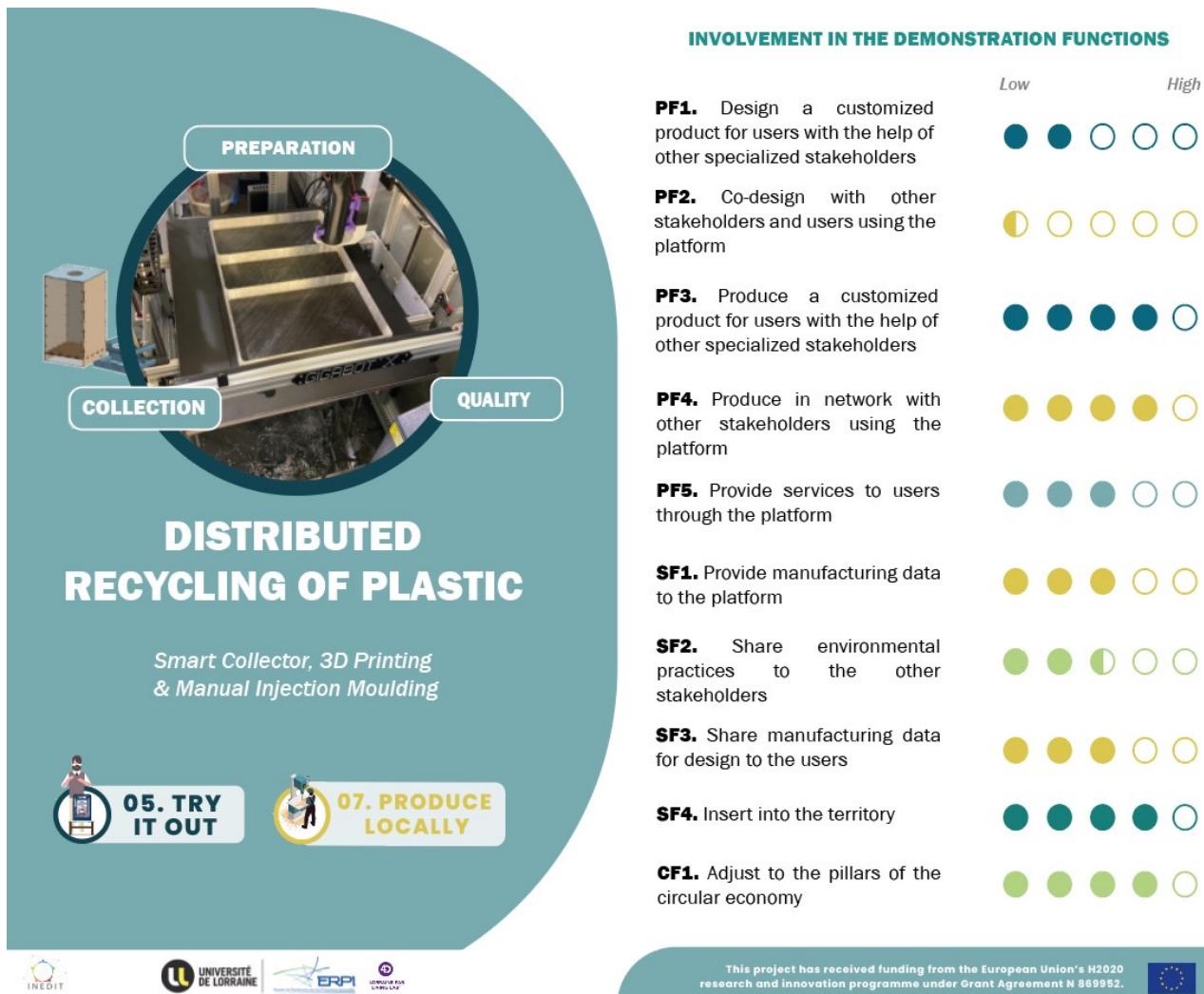
## 07. PRODUCE LOCALLY

## **INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS**





# Zoom on INEDIT





# Zoom on INEDIT



## **INVOLVEMENT IN THE DEMONSTRATION FUNCTIONS**

*Low*   *High*

- PF1.** Design a customized product for users with the help of other specialized stakeholders



- PF2.** Co-design with other stakeholders and users using the platform



- PF3.** Produce a customized product for users with the help of other specialized stakeholders



- PF4.** Produce in network with other stakeholders using the platform



- PF5.** Provide services to users through the platform



- SF1.** Provide manufacturing data to the platform



- SF2.** Share environmental practices to the other stakeholders



- SF3.** Share manufacturing data for design to the users



- SF4.** Insert into the territory



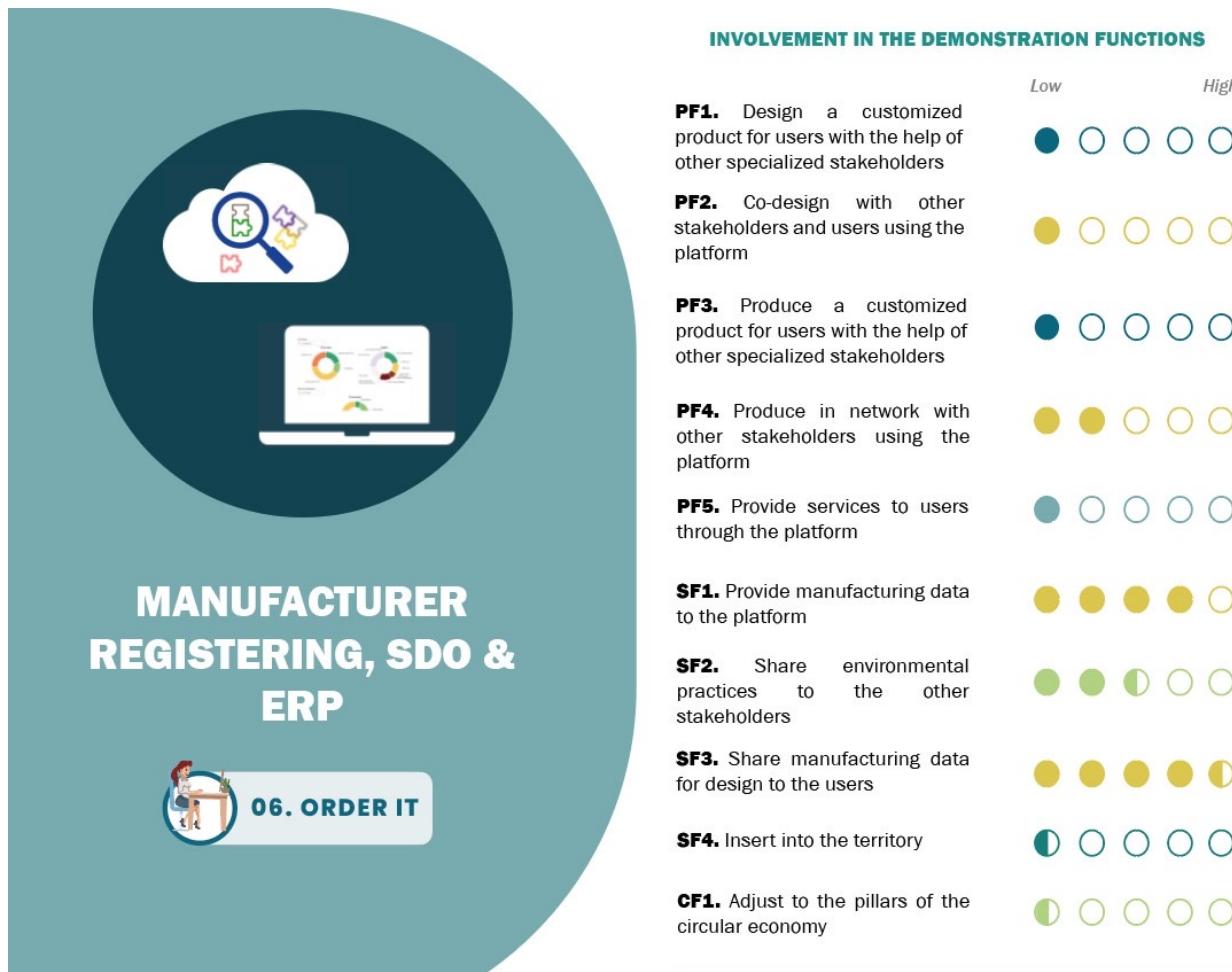
- ### **CF1.** Adjust to the pillars of the circular economy



This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.



# Zoom on INEDIT



This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement N 869952.





*Wed. 22<sup>nd</sup> June 9:00 – 12:30*



## Zoom on Open\_Next



### **The future is open and community-based.**

Today's industrial product creation is expensive, risky and unsustainable. But it doesn't have to be.

Presently, SMEs and maker communities across Europe are coming together to fundamentally change the way we create, produce, and distribute products.

We're establishing new collaborations between companies and consumers, focusing on eco-friendly mobility, consumer electronics and built-to-order furniture.

OPENNEXT seeks to empower both companies and consumers to co-design and co-manufacture products based on new mindsets, new business models, and new collaborative software solutions.



Wed. 22<sup>nd</sup> June 14:00 – 18:00 – Octroi Nancy



5 Open Next partners



Leezenflow



SpreeBerlin



Prototypes for Eur<ope  
e.V. / Pocket Science Lab  
/ Anavi Info uHat



Wed. 22<sup>nd</sup> June 9:00 – 12:30



## Zoom on iProduce



The iPRODUCE project aims to boost collaborative production by mobilising manufacturers, makers and consumers towards open innovation and the co-creation of consumer goods.

The project takes well-proven concepts and approaches (from makerspaces, fab labs and DIY manufacturing) and will upscale them through innovative digital tools and services that integrate a Social Manufacturing Framework (SMF).

These will be integrated and validated in well-connected multi-stakeholder ecosystems under the umbrella concept of collaborative Manufacturing Demonstration Facilities (cMDF).

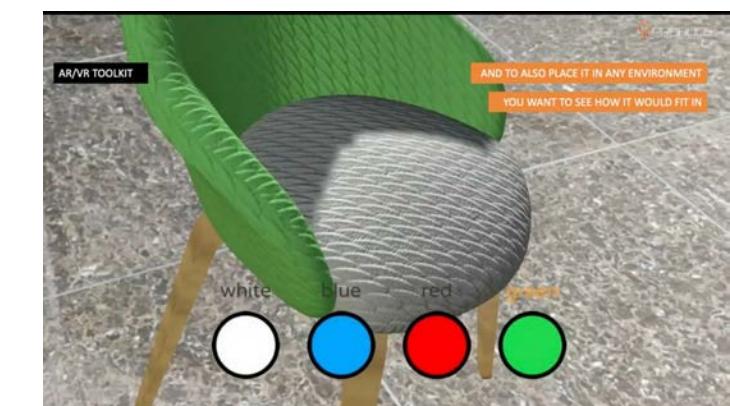
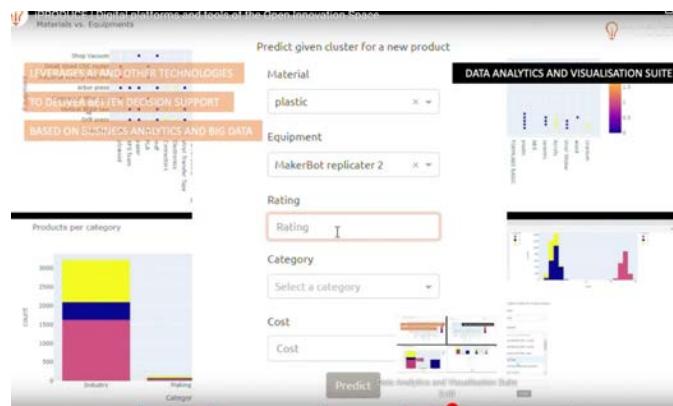
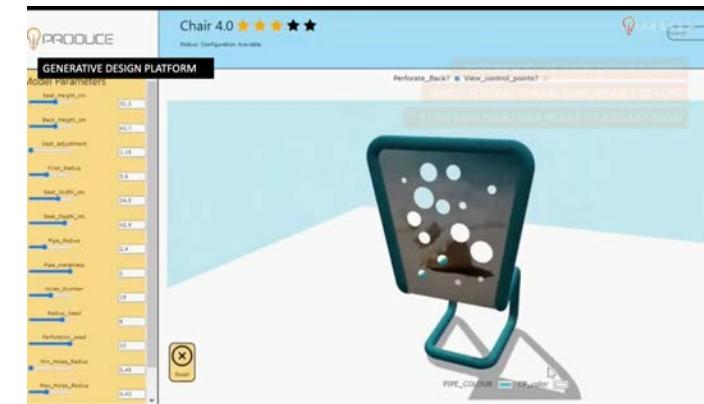
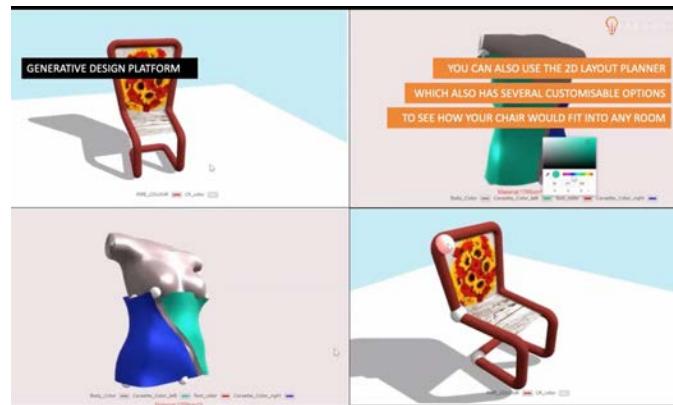


Wed. 22<sup>nd</sup> June 14:00 – 18:00 – Octroi Nancy



## Zoom on iProduce demo

at L'OCTROI Nancy





*Wed. 22<sup>nd</sup> June 9:00 - 12:00*



## Zoom on DIY4U



DIY4U focuses on digitalizing and transforming European industries and services involved in the formulation, production and supply of particulate and liquid based Fast-Moving Consumer Goods (FMCG), enhancing the innovation capacity and competitiveness through decentralized customer-centric production approaches, by promoting the adoption of Open Innovation (OI) digital platform for collaborative production engineering and Fablabs (digitally enabled small-scale manufacturing machines/factories).



*Wed. 22<sup>nd</sup> June 14:00 – 18:00 – Octroi Nancy*



## Zoom on DIY4U demo

at L'OCTROI  
Nancy

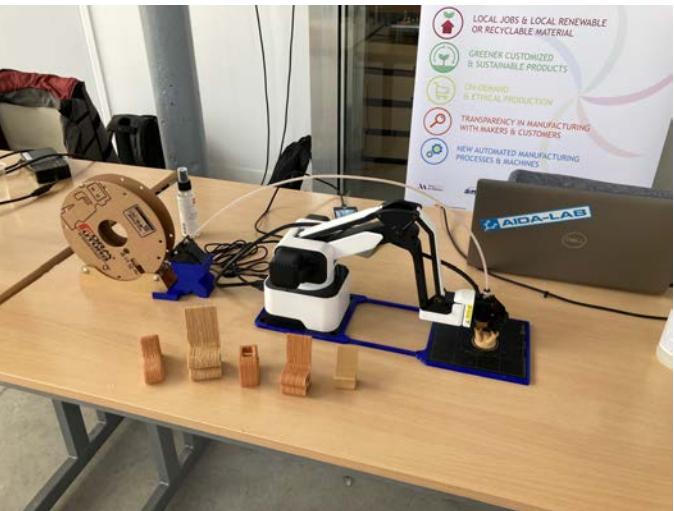


DIY4U brings together a leading global Fast-Moving Consumer Goods (FMCG) Company, expert Small-to-Medium Enterprises (SMEs) from across Europe and supporting Industry Innovation and Research & Technology Organisations (RTOs). Together, we will build an open innovation digital platform integrated into 2 small-scale automated manufacturing machines (Fablabs), for you to create and make customised FMCG.

This project will develop new digital services and end-to-end solutions to enable real-time design (either locally or remotely via web-based portals) and delivery of your customised FMCG product. The project is supported by external industry stakeholders, who also want to use our technologies and services

### Our Offering

The Open Innovation digital platform will be a highly visible and transparent means of bringing together supply-chain stakeholders and consumers, enabling you to seamlessly collaborate on the efficient creation of new powder and/or liquid FMCG. Integrated digital tools will be used in conjunction with product and process information from ingredient suppliers and equipment manufacturers, to digitally design new, high performance customised products, which can then be made on the automated Fablabs.

Wed. 22<sup>nd</sup> June

# To go further...

Special Issue coming issue (open access)

**“Do-It-Together” and innovation, towards the Factories of the Future (FoF) – [link to the call](#)**

Guest Editor(s): Laurent Dupont<sup>1</sup>, Fedoua Kasmi<sup>1</sup>, Joshua M. Pearce<sup>2</sup>, Roland J. Ortt<sup>3</sup>

1. ERPI Laboratory (*Research Team on innovative Processes*), Université de Lorraine, France
2. Department of Materials Science and Engineering and Department of Electrical & Computer Engineering, Michigan Technological University
3. Department of Values, Technology & Innovation (VTI), Section Economics of Technology and Innovation (ETI), Delft University of Technology



## 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions

# Special Issue (open access)

2 papers are already available:

- Marche, B., Kasmi, F., Mayer, F. & Dupont, L. (2022). Implementing Do-It-Together: The Cross-fertilization of Do-It-Yourself and Open Manufacturing. *Journal of Innovation Economics & Management*, <https://doi.org/10.3917/jie.pr1.0122>
- Franz, J. & Pearce, J. (2022). Making the Tools to Do-It-Together: Open-source Compression Screw Manufacturing Case Study. *Journal of Innovation Economics & Management*, <https://doi.org/10.3917/jie.pr1.0123>



## 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions

# Special Issue (open access)

Soon online:

- M. Hassan, R. Mies, et al. (2022) Key enablers towards mature company-community collaboration in open-source hardware *Journal of Innovation Economics & Management*,
  - Garnier, & Capdevilla (2022) Making, hacking, coding. FabLabs as intermediary platforms for modes of social manufacturing. *Journal of Innovation Economics & Management*,
  - Pallot, M. Fleury, S. Poussard, B. Richir S. et al. (2022) What are the Challenges and Enabling Technologies to Implement the Do-It-Together Approach Enhanced by Social Media, its Benefits and Drawbacks? *Journal of Innovation Economics & Management*
- 
- 3 more papers and 2 book reviews under production!



## 2022 IEEE 28th ICE/ITMC & 31st IAMOT JOINT CONFERENCE

Technology, Engineering and Innovation Management Communities  
as Enablers for Social Ecological Transitions



Thursday 23<sup>rd</sup> June 9:00 - 12:00 - Octroi Nancy



Climate  
Labs

Strengthening applied research and innovation capacities in Latin-America  
through co-creation labs for mitigation and adaptation to Climate Change  
**(2020-2023)**

Country	University	Thematic Focus
Brazil	Pontifícia Universidade Católica de Paraná	Urban Flood and Heat Island Management
	Pontifícia Universidade Católica do Rio Grande do Sul	Social Innovation and Community Development
	Universidade Católica de Pernambuco	Urban Sustainable Development & Community Resilience
Colombia	Universidad Minuto de Dios	Coffee Production and Watersheds
	Universidad de Caldas	Food Production and Urban Agriculture
	Universidad de Manizales	Sustainable Water Governance
	Universidad del Quindío	Climate Variability and Pollinators
Mexico	Universidad Tecnológica de Pereira	Women's and Children's Resilience and Climate Change
	Instituto Tecnológico y Estudios Superiores de Monterrey	Waste Management and Circular Economy
	Universidad de Guadalajara	Sustainable Food Production



Thur. 23<sup>rd</sup> June

# Accommodation



The conference organizers have negotiated a special rate at some hotels for ICE-IAMOT attendees that is applicable from the WE before and up to the WE after the conference.

Participants have to use reservation platform on this link:

[Reservation platform](#)

(<http://event.nancy-tourisme.fr/event/registration?eventid=176&langue=UK>)

Take a look at the location:

[https://www.google.com/maps/d/u/0/viewer?mid=1qYCByo6cg4Meqk1aQow9rPGgsUOtV\\_9&ll=48.69036111203171%2C6.18511484999982&z=15](https://www.google.com/maps/d/u/0/viewer?mid=1qYCByo6cg4Meqk1aQow9rPGgsUOtV_9&ll=48.69036111203171%2C6.18511484999982&z=15)

# Venue 2022: Convention Center, Centre Prouvé



**IEEE TEMS**  
Technology & Engineering  
Management Society

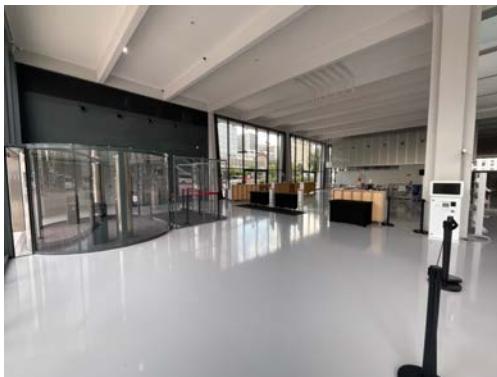


**ICE**  
International Conference on  
Engineering, Technology and Innovation

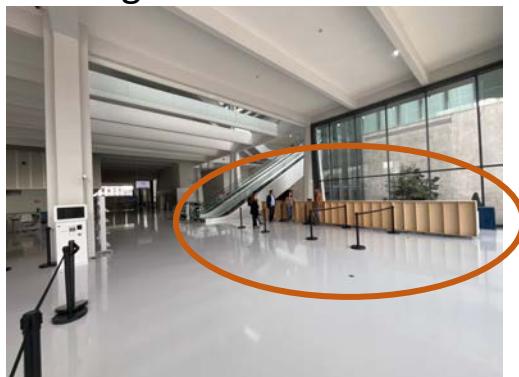


# Centre Prouvé – corridors

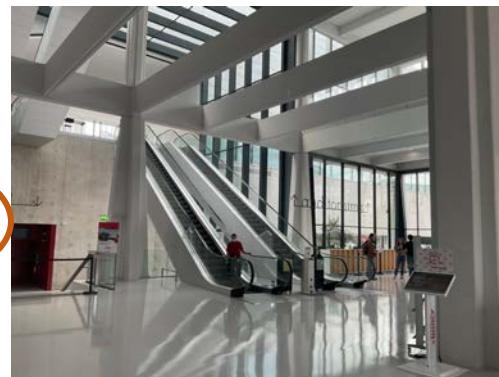
Main Entrance



Registration Desk



Access to 1<sup>st</sup> Floor



Foyer 850 – Booths, posters, Coffee, lunches



Access to 2<sup>nd</sup> Floor



Open space between session rooms



# Centre Prouvé – Auditorium 300

**Wednesday 22<sup>nd</sup> June**



# Centre Prouvé – WS rooms



8 “small” rooms  
with max. 80  
participants  
(103, 104, 105,  
106, 202, 203,  
204, 205)



Or 2 merged  
rooms with max.  
160 participants  
(103 & 104, 105 &  
106)  
And 4 rooms (202,  
203, 204, 205)

Rooms 105, 106 can be merged

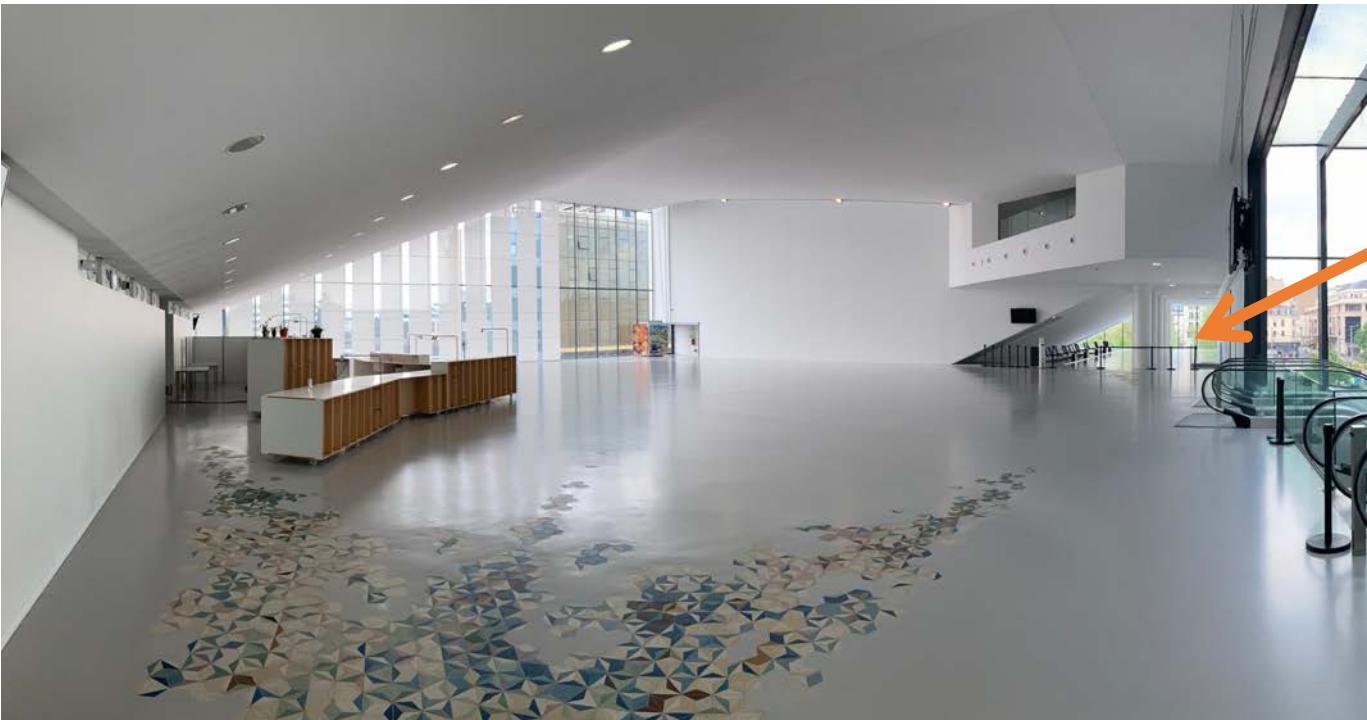


Rooms 103, 104 can be merged

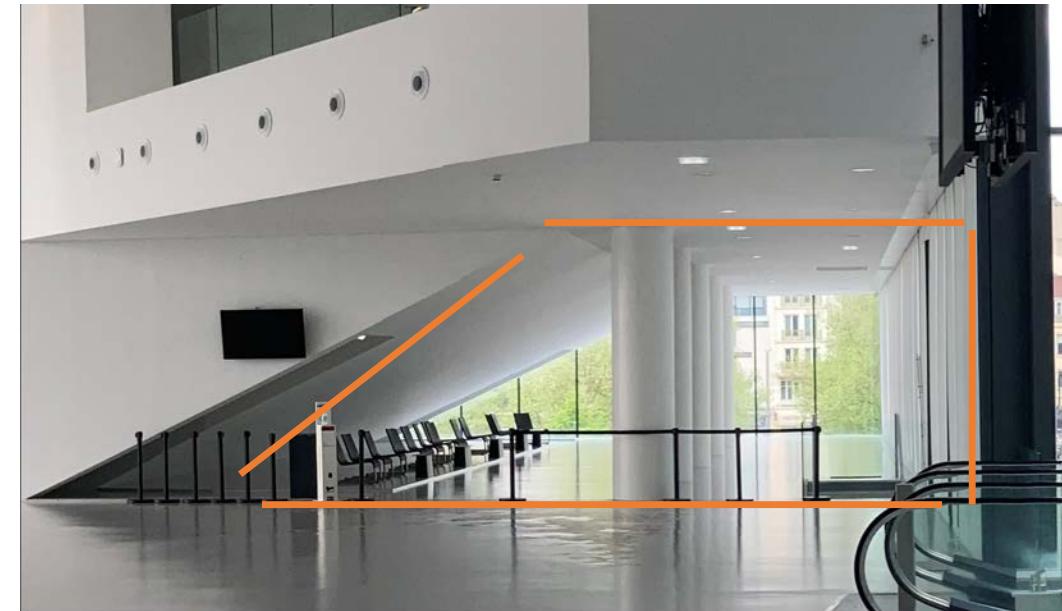


# Centre Prouvé – Lunchs

**Monday – Tuesday**



**Wednesday**



# Coming to Nancy



DESTINATION  
**NANCY**



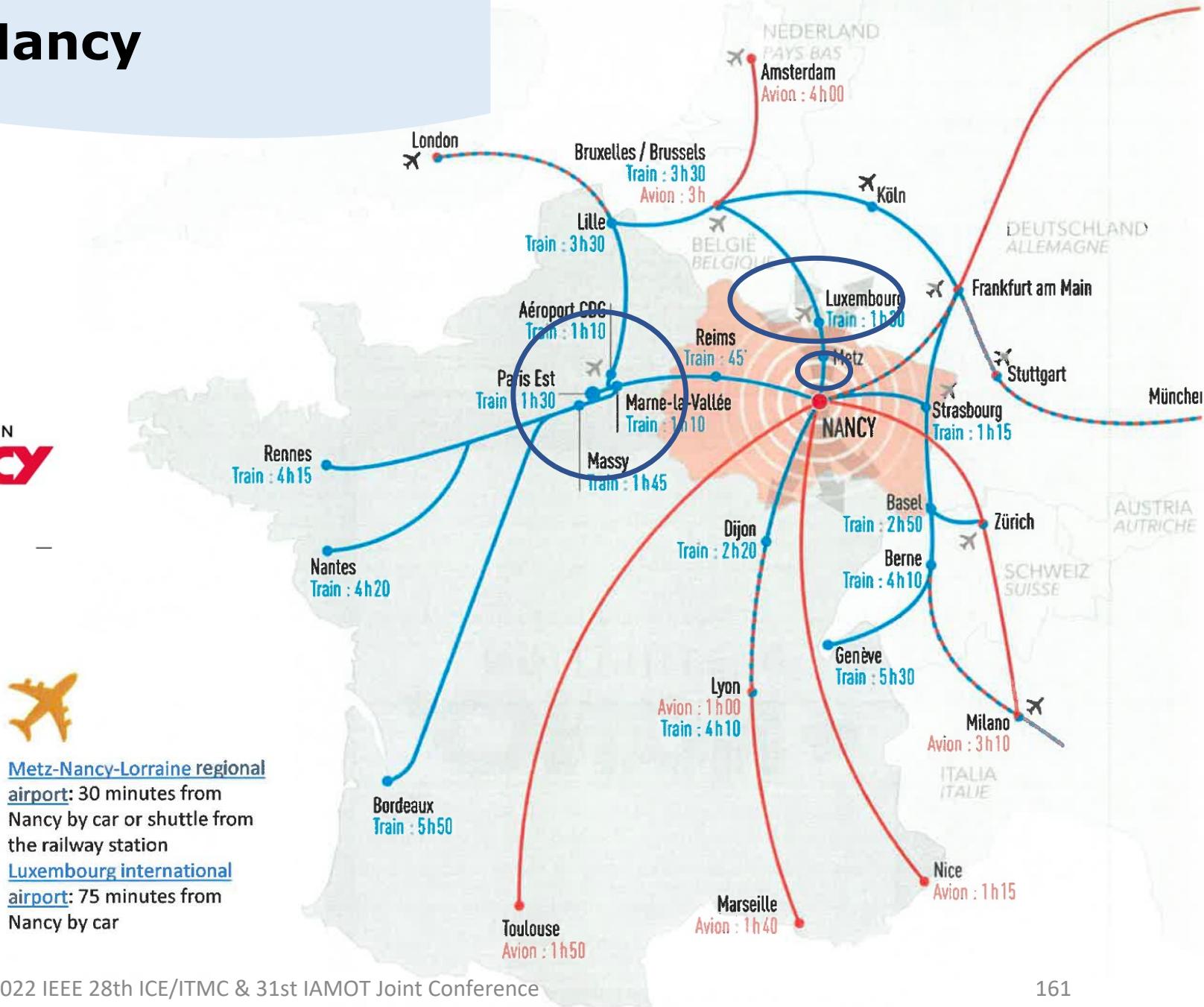
- Motorway A4 from Paris, Strasbourg, Berlin
- Motorway A31 from Brussels, Luxembourg, Dijon, Lyon, Marseille



- Paris: 1 hr 30 min.
- Strasbourg: 1 hr 15 min.
- Luxembourg: 1 hr 30 min.
- Lyon: 4 hr

[Getting to Nancy by train](#)

[Plan your route](#)





# RADIANT

# Go to the conference sites

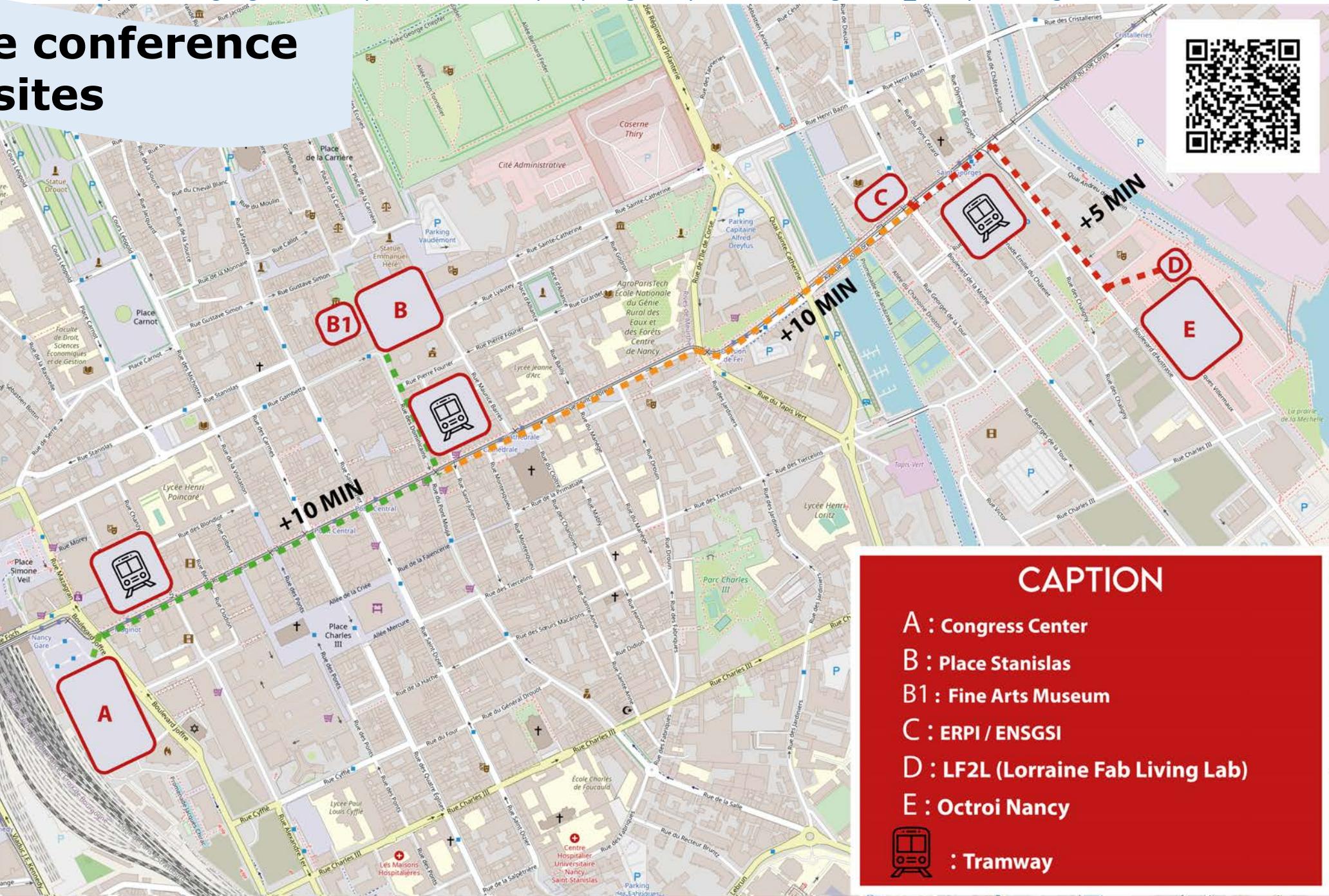


**IEEE TEMS**  
Technology & Engineering  
Management Society

**ICE**  
International Conference on  
Engineering, Technology and Innovation



19-23/06/2022



## CAPTION

- A : Congress Center
- B : Place Stanislas
- B1 : Fine Arts Museum
- C : ERPI / ENSGSI
- D : LF2L (Lorraine Fab Living Lab)
- E : Octroi Nancy
- : Tramway

# 5 min walk from the train station



<https://ice-iamot-2022-conference.org/4-nancy.html>



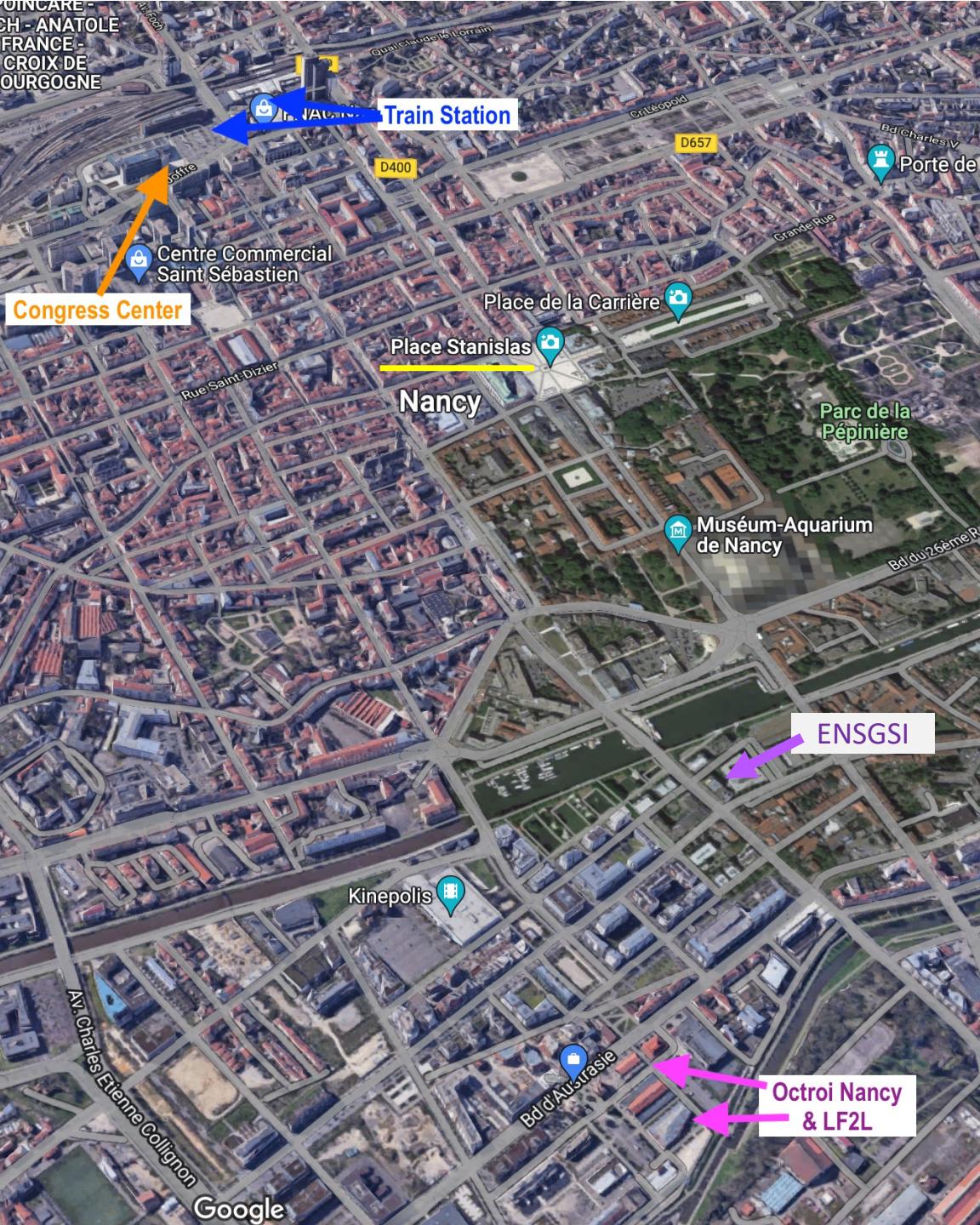
# 25 min walk from the Congress center to Octroi Nancy



19-23/06/2022

2022 IEEE 28th ICE/ITMC & 31st IAMOT

[https://www.google.com/maps/d/u/0/viewer?mid=1qYCByo6cg4Meqk1aQow9rfPGgsUOtV\\_9&ll=48.69036111203171%2C6.185114849999982&z=15](https://www.google.com/maps/d/u/0/viewer?mid=1qYCByo6cg4Meqk1aQow9rfPGgsUOtV_9&ll=48.69036111203171%2C6.185114849999982&z=15)



# Fees

The registration fees for the conference are outlined below



<b>Fees ICE-IAMOT</b>	<b>Euro</b>	<b>Dollar*</b>
Early Bird fees on site (Nancy, France) <b>until 23 May</b>	€ 450	\$ 495
Full fees on site <b>from 24 May</b>	€ 600	\$ 660
Fees On-line	€ 250	\$ 275
<b>Students Fees ICE-IAMOT</b>	<b>Euro</b>	<b>Dollar*</b>
Student fees on site (Nancy, France) <b>until 23 May</b>	€ 250	\$ 275
Student Full fees on site <b>from 24 May</b>	€ 600	\$ 660
Student On-line <b>until 23 May</b>	€ 130	\$ 143
Student On-line <b>from 24 May</b>	€ 250	\$ 275
<b>Extra ticket Gala Dinner [limited number of places]</b>	<b>€ 50</b>	<b>\$ 55</b>

## Supporting Institutions



## Local Organizers



## Sponsors



## EU projects



GA n°: 870148



IN EDIT  
open INnovation Ecosystems  
for Do It Together process

GA n°: 869952



GA n°: 870037



GA n°: 869984



GA n°: 873010



19-23/06/2022



2022 IEEE 28th ICE/ITMC & 31st IAMOT Joint Conference



Zusammen.  
Zukunft.  
Gestalten.



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## IEEE 29th International Conference on Engineering, Technology and Innovation (ICE/ITMC)

# Making the future...

Edinburgh, 19-22 June 2023

[www.ice2023.org](http://www.ice2023.org)



THE UNIVERSITY of EDINBURGH  
School of Engineering

