



Spaces for Innovation Spaces for Entrepreneurship

Interreg Europe Policy Learning Platform

31 May 2023

Rethinking Local Policies, Ghent, Belgium





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WELCOME!



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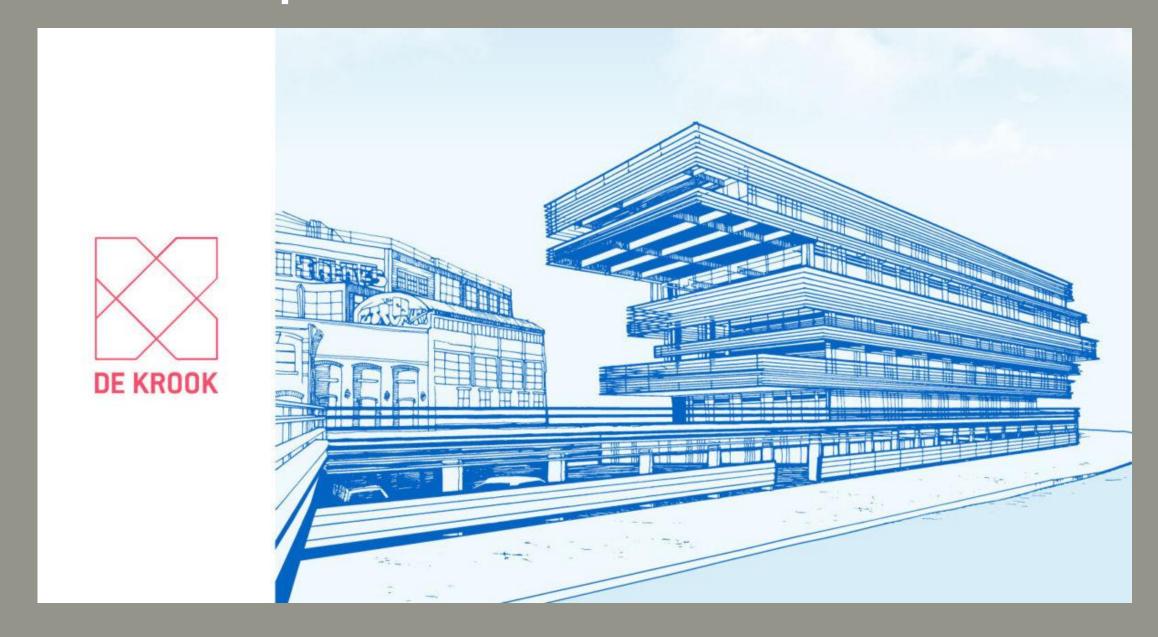


Mart Veliste



Eugénie Suplisson

Site visits – Spaces for Innovation



Site visits – Spaces for Entrepreneurship





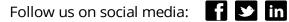


Fab Labs and Makerspaces

Flexible policy tools for place-based challenges

> Marc Pattinson and Arnault Morisson René Tönnisson and Mart Veliste Thematic Experts | Interreg Europe Policy Learning Platform

> > 31 May 2023









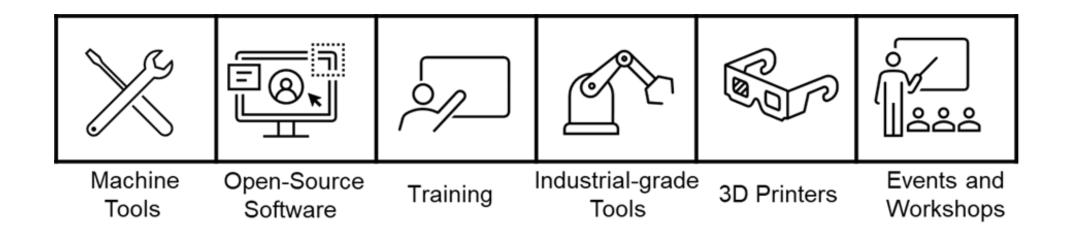




Fab Labs and Makerspaces Introduction



• A Fab Lab or digital fabrication laboratory, is a place to play, to create, to learn, to mentor, to invent: a place for learning and innovation. They provide access to the environment, the skills, the materials and the advanced technology to allow anyone anywhere to make (almost) anything (<u>fabfoundation</u>).



Fab Labs and Makerspaces Introduction



Fab Labs and Makerspaces are flexible policy tools.

They can respond to multiple policy challenges:

- To promote STEAM
- To promote entrepreneurship
- To promote university-industry collaboration
- To address local societal challenges
- To facilitate prototyping for SMEs
- To promote interactions among quadruple helix stakeholders
- To promote learning new skills....

They can target different stakeholders:

- Students (schools and universities)
- Entrepreneurs
- SMEs
- Public sector...

Spaces for Innovation and Entrepreneurship





Spaces for innovation

Explore the importance of five types of spaces for innovation for local and regional development in this policy brief!

Policy brief



Digital innovation hubs and demonstrators

Explore this policy brief to learn about digital innovation hubs and how they can foster competitiveness and contribute to a sustainable and digital Europe.

Policy brief

Fab Labs and Makerspaces – flexible policy tools for place-based challenges

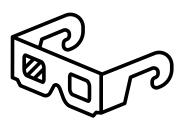






Birmingham City University, United Kingdom

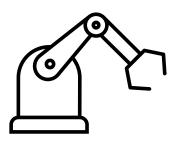




Łukasz Bonarek,

Podkarpackie Center for Innovation ProtoLab, Poland





Marco Alves,

Tagus Valley, Portugal





Laura Veart,

Birmingham City University, United Kingdom

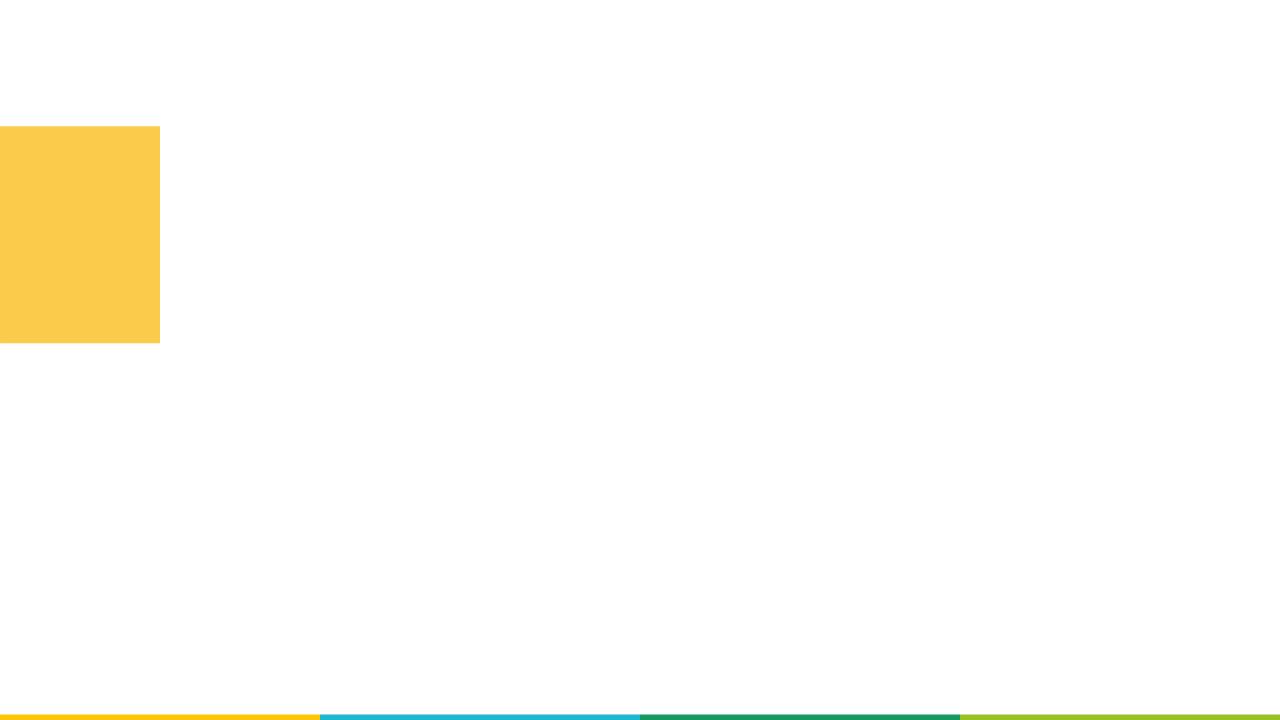
URBAN M

Project Overview





- The objective of the Urban Manufacturing Project is to ensure that collaborative maker spaces thrive
- This was achieved by identifying best practice, testing policy approaches and supporting our cities/regions in creating receptive conditions
- Our aim was to demonstrate the impact that cooperative facilities can have on innovation and establish a European network of advocates



How to change policies





STEP 1: Policy learning events and study visits

STEP 2: Peer reviews using Design Thinking techniques

- Constructive reflection was built into the project in the form of the peer reviews.
- The STEAMhouse Team applied a design-led thinking approach to the each city challenge over the one-day peer review (challenge definition, ideas generation, prototyping and testing)
- Cities were paired with another city to mentor each other
- The peer review process helped cities identify what steps were required to boost the city's innovation capacity.

Case-study: Zagreb





- Zagreb had always supported development of crafts and SMEs through different means, from adopting programmes for fostering development, providing grants to crafts and SMEs to establishing Zagreb Innovation Centre (ZICER),
- "The concept of 'maker spaces' was not very well known in Zagreb or even in Croatia when the city decided to join the project, although there were some good examples"
- "The city was looking for new ideas and ways of promoting entrepreneurship, connecting crafts with new technologies, implementing new practices, supporting new products. The participation in UrbanM project has brought Zagreb all that: gaining information and learning from different partners' experiences. "

Case-study: Birmingham





- Birmingham changed the emphasis of the ESIF call. They embedded the wording:
- "Facilities for rapid product/service design and prototyping accessible to small and medium sized enterprises, including social enterprises – such as collaborative 'maker space'. "
- The call for proposals supports bids encouraging fab lab/maker space activity, resulting in:
- The reduction of barriers to innovation by de-risking SME investment costs;
- Access to high quality machinery and equipment for development and prototyping for small businesses
- Creation of a maker space network for the Birmingham area

Case-Study: Ecosystem development





- Through the Urban M project Lisbon supported collaborative processes and activities within Lisbon's Urban Making Ecosystem, they are currently expanding their makerspace capacity in the city
- In the city of San Sebastian they have enhanced the use of makerspaces, ensuring makerspaces are better connected with their local stakeholders and, therefore, making and prototyping are increasingly included in their DNA
- In Vilnius they developed measures to foster an environment favorable for the development of creative maker-spaces, ensuring effective tools for a long-term development of creative eco-system are established in the city







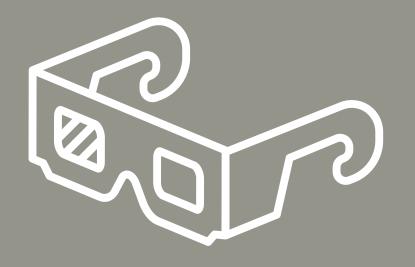


Thank you!

Any questions?



Łukasz Bonarek,



Podkarpackie Center for Innovation ProtoLab, Poland

FOUNDATION















Tekst jednolity.

AKT ZAŁOŻYCIELSKI SPÓŁKI PODKARPACKIE CENTRUM INNOWACJI SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ

Pan Lucjan Kuźniar oraz Pan Stanisław Kruczek działając w imieniu i na rzecz Województwa Podkarpackiego oświadczają, że na podstawie niniejszego aktu założycielskiego Województwo Podkarpackie, zawiązuje spółkę z ograniczoną odpowiedzialnością, zwaną dalej Spółką-----

I. INFORMACJE OGÓLNE

§ 2

- Spółka działać będzie pod firmą: Podkarpackie Centrum Innowacji Spółka z ograniczoną odpowiedzialnością.
- Spółka może używać skrótu firmy: PCI Sp. z o.o. -----§ 3

- Siedzibą Spółki jest Rzeszów. ----Spółka może działać na terytorium Rzeczypospolitej Polskiej oraz za
- Spółka może tworzyć filie, zakłady, oddziały i przedstawicielstwa w
- Spółka może tworzyć i likwidować oddziały, filie, agencje, zakłady, przedsiębiorstwa i przedstawicielstwa oraz inne jednostki organizacyjne na terytorium Rzeczypospolitej Polskiej oraz poza jej granicami. -----
- Spółka może tworzyć inne spółki lub przedsiębiorstwa z polskimi i zagranicznymi podmiotami gospodarczymi oraz przystępować do spółek i innych organizacji prowadzących działalność gospodarczą w Rzeczypospolitej



POTWIERDZENIE WPŁYWU WNIOSKU

potwierdza rejestrację wniosku o dofinansowanie projektu

Podkarpackie Centrum Innowacji

złożonego przez

Podkarpackie Centrum Innowacji spółka z ograniczoną odpowiedzialnością (w organizacji)

w ramach naboru dla działania: RPPK.01.02.00-IZ-00-18-007/17

uruchomionego w dniach: 2017-12-13 - 2017-12-15

Wniosek został zarejestrowany w Lokalnym Systemie Informatycznym do obsługi Regionalnego Programu Operacyjnego Województwa Podkarpackiego na lata 2014-2020 pod numerem RPPK.01.02.00-18-0085/17.

Suma kontrolna wniosku: af68 7945 b7fd b1b9

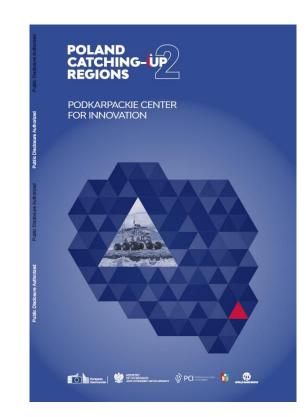
Status wniosku: Zlożony

W dalszej korespondencji prosimy powoływać się na wskazany numer.

Wpływ dnia: 15.12.2017

/podpis i pieczęć przyjmującego/

URZAD MARSZAŁKOWSKI UNAMU PRANSZALAN WORLD WOLEWODZIWA PODKARPACKIEGO al. Łukasza Cieplińskiego 4 8 5 - 0 1 0 R Z E S Z Ó W NIP 813-29-17-389, sk. poczt. 17 tel. 017 8501700, fax 017 8501701











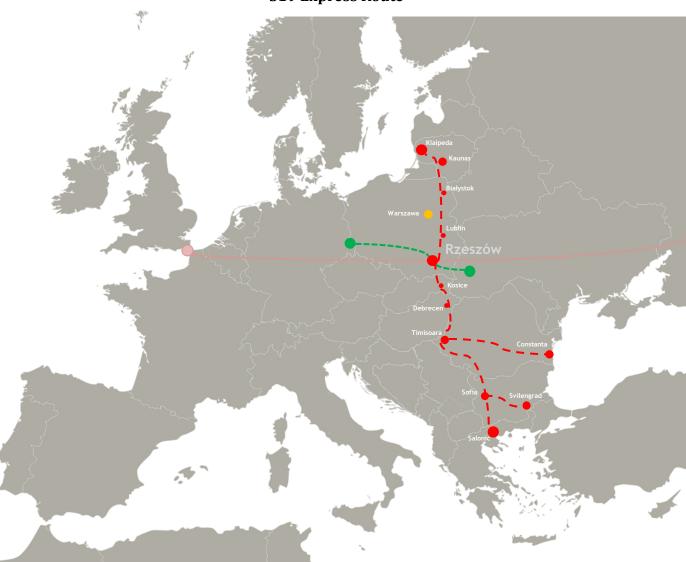
EUROPE OF THE CARPATHIANS INITIATIVE

- International Airport Rzeszów-Jasionka,
- Located at the crossroads of all major international and national transport routes:
 - International road No E40 (France-Kazakhstan),
 - International road No 19 (planned to link seven
 EU countries: from Greece to Lithuania),
 - Main railway line E-30 (Pan-European East-West Transport Corridor),
- 4 railway and 5 road border-crossing points with Ukraine and Slovakia.





Railway E-30







PODKARPACKIE REGION



- area: 17 846 km2
- over 2 100 000 inhabitants
- about 40% of inhhabitants in a productive age
- capital city: Rzeszów
- over 2 100 commercial companies with foreign capital out of which 90 are medium and large ones
- borders with Slovakia and Ukraine (eastern border of the EU)
- Gross Domestic Product in 2021 (current prices) PLN 89,832 million







PODKARPACKIE INNOVATION CENTER



R&D PROJECTS

• in the early stages development of promising research projects



CONTRACTED RESEARCH

• implementation of scientific and research projects with a view to successfully introducing to the market innovations created in research units in Podkarpacie



PROTOLAB

• open trainings, workshops and events, as well as a meeting place for the start-up environment, bringing together mentors from various fields.









ProtoLab













ENVIRONMENT ANIMATION

- Technical and soft skills training
- Hackathons
- Training and mentoring for organized groups
- Expert meetings
- Technology debates
- Technology and thematic boot camps
- Scientific and technological conferences
- E-sports tournaments
- open days and integration meetings













ProtoLab SPECIAL PROGRAMS

ProtoLab Academy

Clients:

collage students, scondary school students, young scientist aged 17-30, living or studing in the Podkarpackie Voviodeship

Soft skills:

- Creativity workshop
- Leadership skills
- Self-presentation, pitching, public speaking

Business skills:

- Business model canvas
- Market research and competition analysis
- Project budget
- Lean startup
- Marketing managment
- Project managment
- Commercial agreements- negotiations, risks











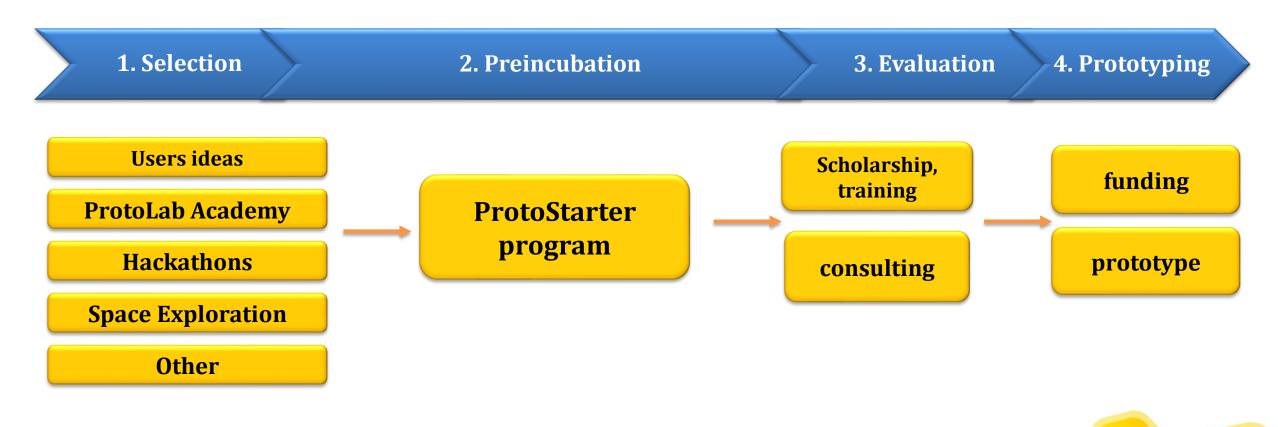






ProtoLab SPECIAL PROGRAMS

ProtoLab ProtoStarter







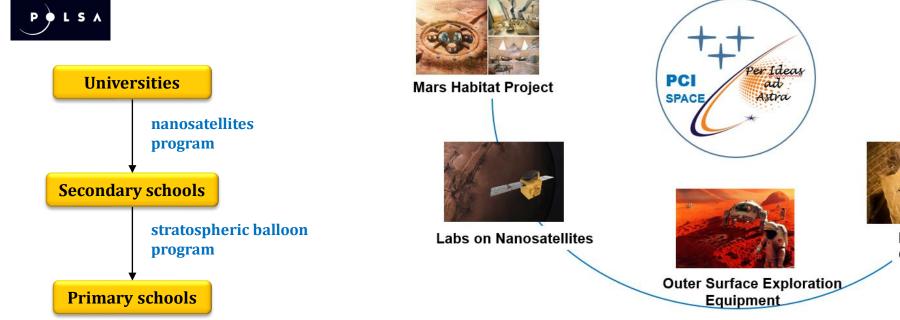
ProtoLab SPECIAL PROGRAMS

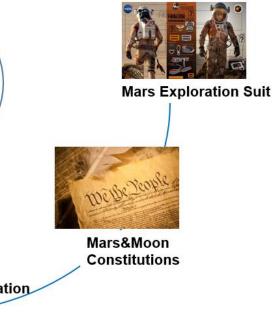
PCI Space Exploration

rocket program



Meetings with employees and representatives of the space industry









SUBCARPATHIAN NASA SAPACE APPS CHALLENGE 2022

















ProtoLab – MAKERSPACE & CREATIVE COMMUNITY

































ProtoLab CO-CREATION VALUE CHAIN

Philosophy of Protolab

chillout zone

competences

create and craft













rooms



workshops and rapid prototyping equipment, experiments zone

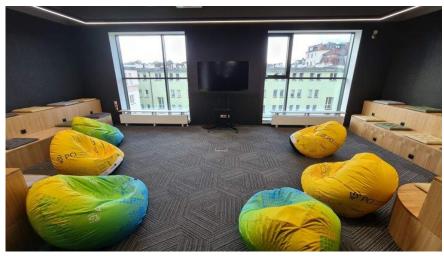






PCI ProtoLab







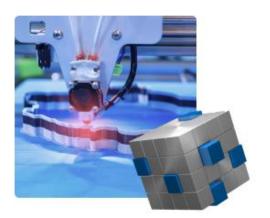








PCI ProtoLab MAKERSAPCE



Rapid prototyping



BioGreen Lab



Media, graphics, VR



Hackerspace - electronics and microcontrollers



Modelling workshop



Textiles & wearables

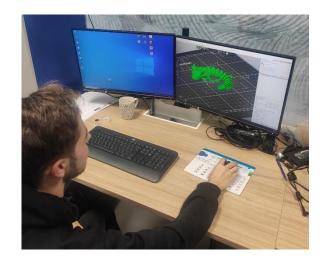






PROJECTS

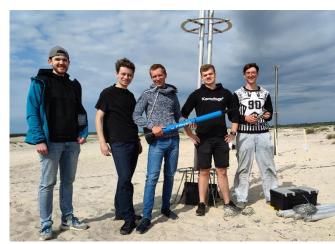










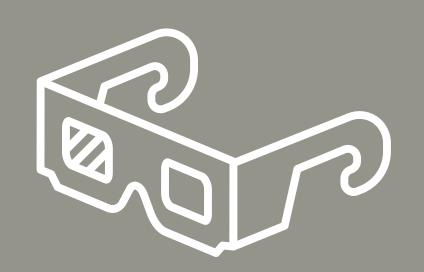










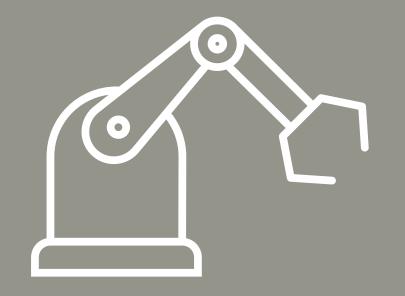


Thank you!

Any questions?

Łukasz Bonarek, Podkarpackie Center for Innovation ProtoLab, Poland **FOUNDATION**

Marco Alves,



Tagus Valley, Portugal

AGRI RENAISSANCE



TAGUSY

PARQUE TECNOLÓGICO DO VALE DO TEJO

TAGUSVALLEY
SCIENCE AND
TECHNOLOGY PARK



INOV.POINT



INOV.LINEA



LINE.IPT



INOV.CODE





INOV.LINEA AGRIFOOD UNIT FOR KNOWLEDGE PRODUCTION AND TRANSFER







AGRIFOOD | CIRCULAR ECONOMY | BIOECONOMY

APPLIED RESEARCH

SERVICES

. Pilot scale and industrial scale-up (TRL's 6 to 9)

. Innovative or emerging conservation and process technologies







OUR SERVICES

NEW PRODUCT DESIGN AND DEVELOPMENT

SUPPORT TO MARKET **ENTRY CONSULTANCY** SHARED PRODUCTIVE PILOT UNIT: FOOD AB LAB







AROMATIZED OLIVE OIL DITERRA

CANNED FISH BEM AMANHADO

EGG CANDY REBUÇADO DE OVO





FOOD FAB LAB SHARED FACILITY

Allows start up business projects, production of small series and experimental lots

Access to **pilot plant** with industrial licensing

Testing at pilot scale and/or manufacture for market entry

TRL's 7 to 9



INDUSTRIAL PLANT







FREEZE-DRYING TECHNOLOGY



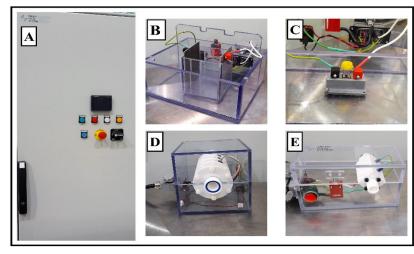
FOOD FAB LAB SHARED FACILITY

Allows start up business projects, production of small series and experimental lots

Conventional and emerging technologies

Single or multiple use





PEF equipment (A) and static PEF processing chambers (B), cuvette (C) and continuous 10 mm diameter (D) and 40 mm diameter (E).

















FOOD FAB LAB Has as a diverse portfolio of clients

ranging all territory (Data series: 2016 to 2020)



Start Up Fumeiro do Mar **52%**



9%

UniversityLeiria Polytechnic Institute



Radius of Action: 280 km Countrywide





SME Quinta da Mó 39%

CONTACTS (total): **75**

SERVICES (total): 31

CLIENTS (total): 23



RECOMMENDATIONS





A. INVOLVE ALL STAKEHOLDERS ON FOOD FAB LAB PLANNING







AGRI-FOOD COMPANIES



BY INOV'LINEA

OTHERS

TECHNICAL TEAM





LEGAL & FISCAL ENTITIES









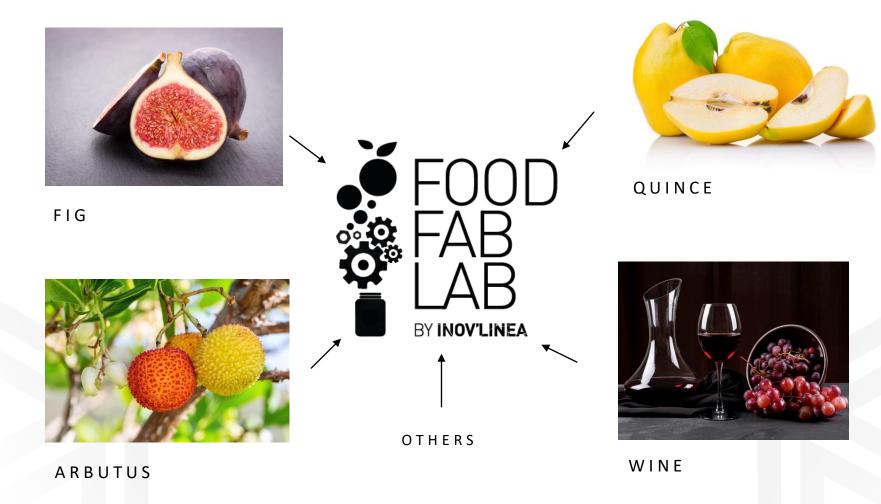






B. EXPLORE **NATIVE SPECIES**







TAGUS VALLEY INOVLINEA TECNOLOGIAS ALIMENTARES

FOOD FAB LAB

a Shared Productive Unit

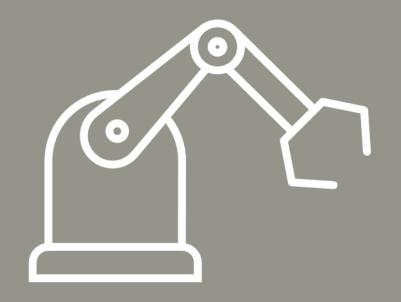
that can contribute

for the **Economic Development**

through **Knowledge Transfer**

and New Products Development

towards a Circular Economy Society



Thank you!

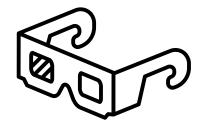
Any questions?





Matchmaking and ZOOM IN Sessions Feel free to join us tomorrow!







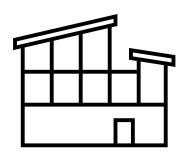
13:30 - 14:45



From S3 priority selection to actions –

Province of East Flanders, Belgium

13:30 - 14:45



Spaces for innovation –

Municipality of Keratsini – Drapetsona, Greece

15:15 - 16:30





Thank you!

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