

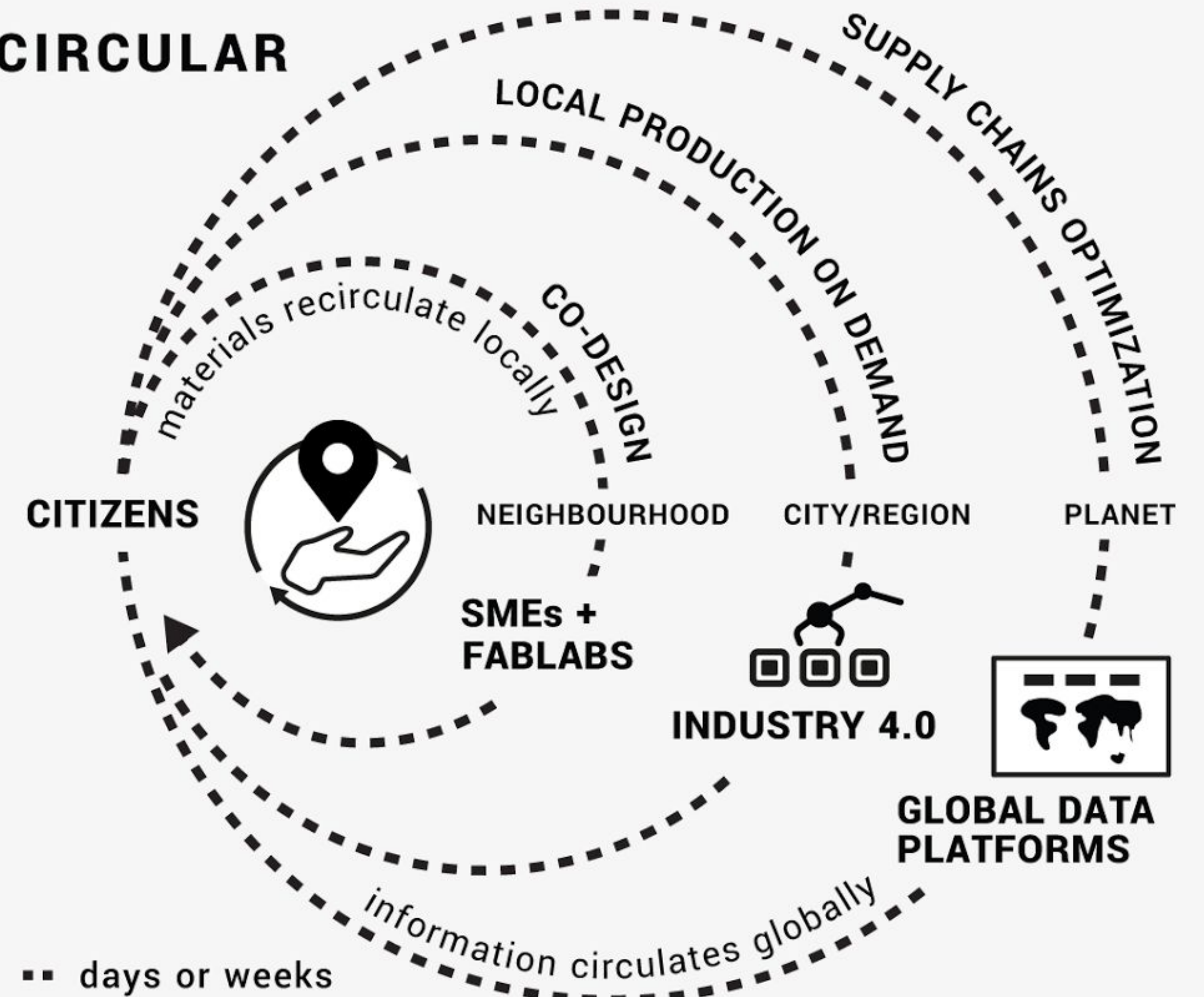
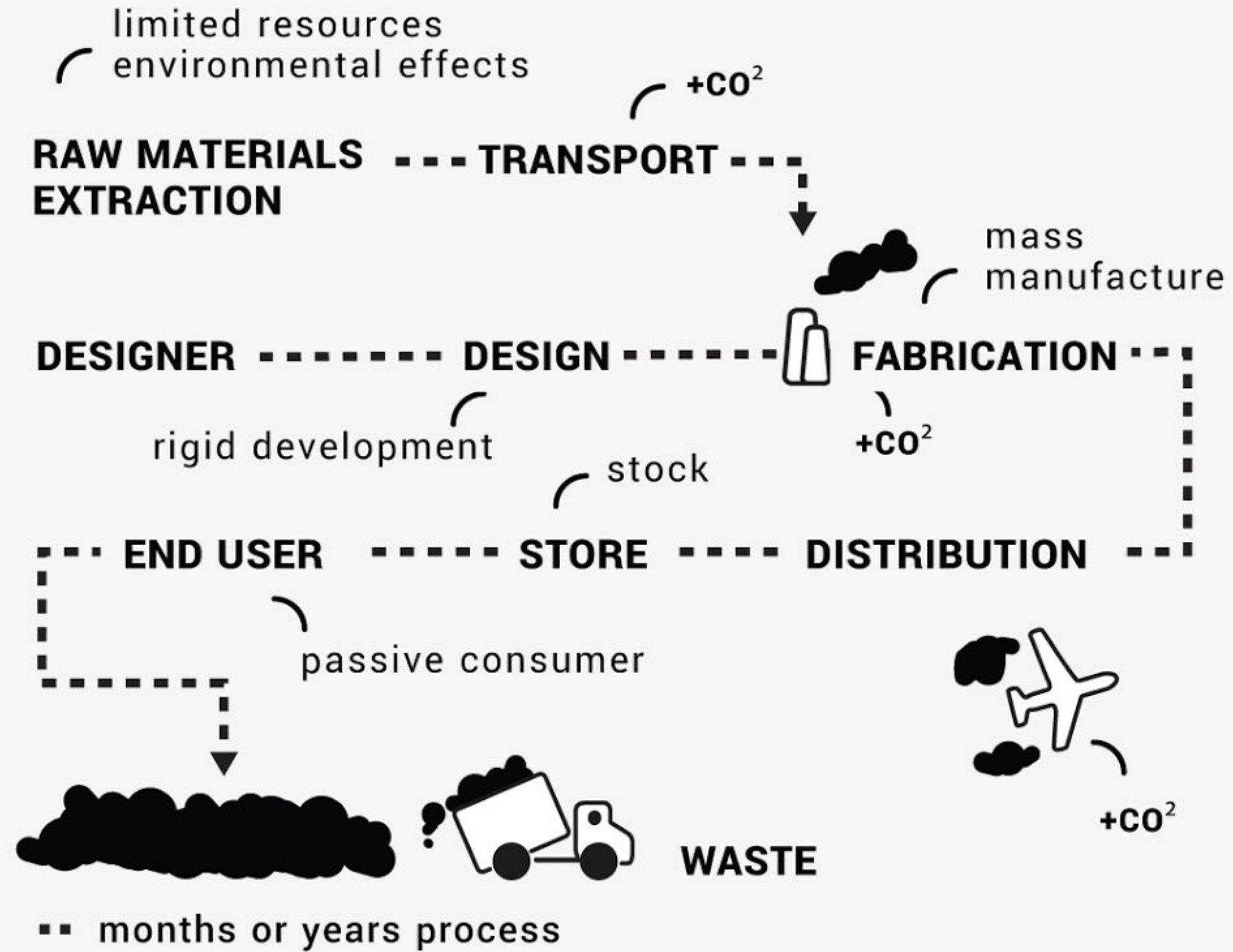
# FAB LAB BARCELONA

Pop-Machina @iPRODUCE 26.11.2020

# Agenda

- Pop-Machina & Academy
- Fab Lab Barcelona
- Manufacturing & Make Works

## LINEAR vs CIRCULAR





# Makers as catalyzers



## Why do we connect with the Maker Movement?

We want to empower people to become actors of change. Because designing for a Circular Economy is a complex phenomenon which requires the adaptation of existing systems & implementing new ones.

Fostering glocal, distributed collaborative manufacturing and making practices towards a more circular economy.



Why do we work this way?

# Communities of practice

## A bottom up approach

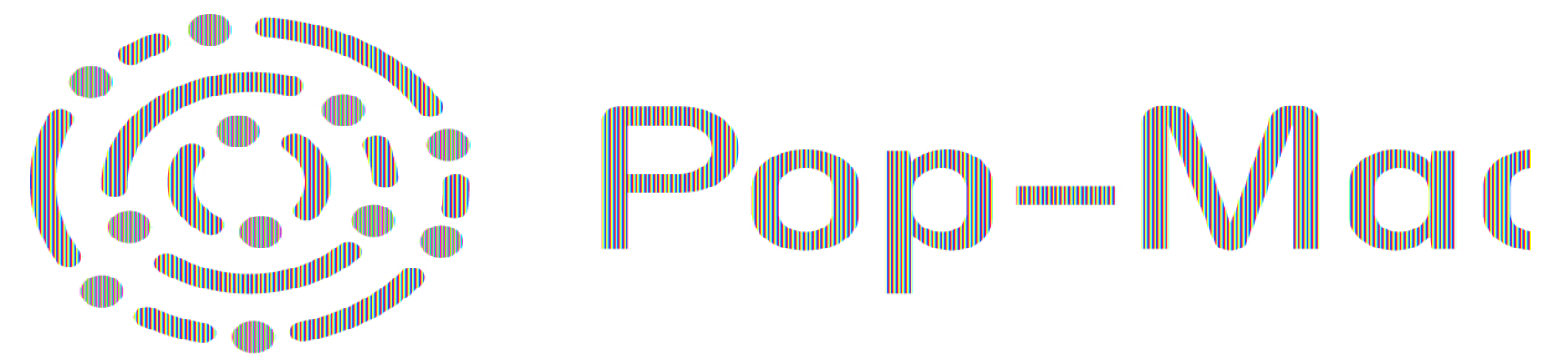
To achieve this our goal is to build communities of practice.

We do this to connect people who have the motivation and the urge to participate in change-making practices.

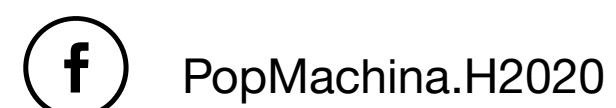
Collaboratively co-creating something we like to call the Liquid Circular Maker Space.

A Liquid Circular Maker Space serves as a site where circular, innovative solutions to complex problems can develop, mature and scale. The space, its makers and their innovations strive to re-define how society has operated for generations since the industrial revolution by actively prioritising the creation of positive social and environmental impacts.






Pop-Machina is a Horizon 2020 project that seeks to highlight and reinforce the links between the maker movement and circular economy in order to promote environmental sustainability and generate socio-economic benefits in European cities.



[www.pop-machina.eu](http://www.pop-machina.eu)



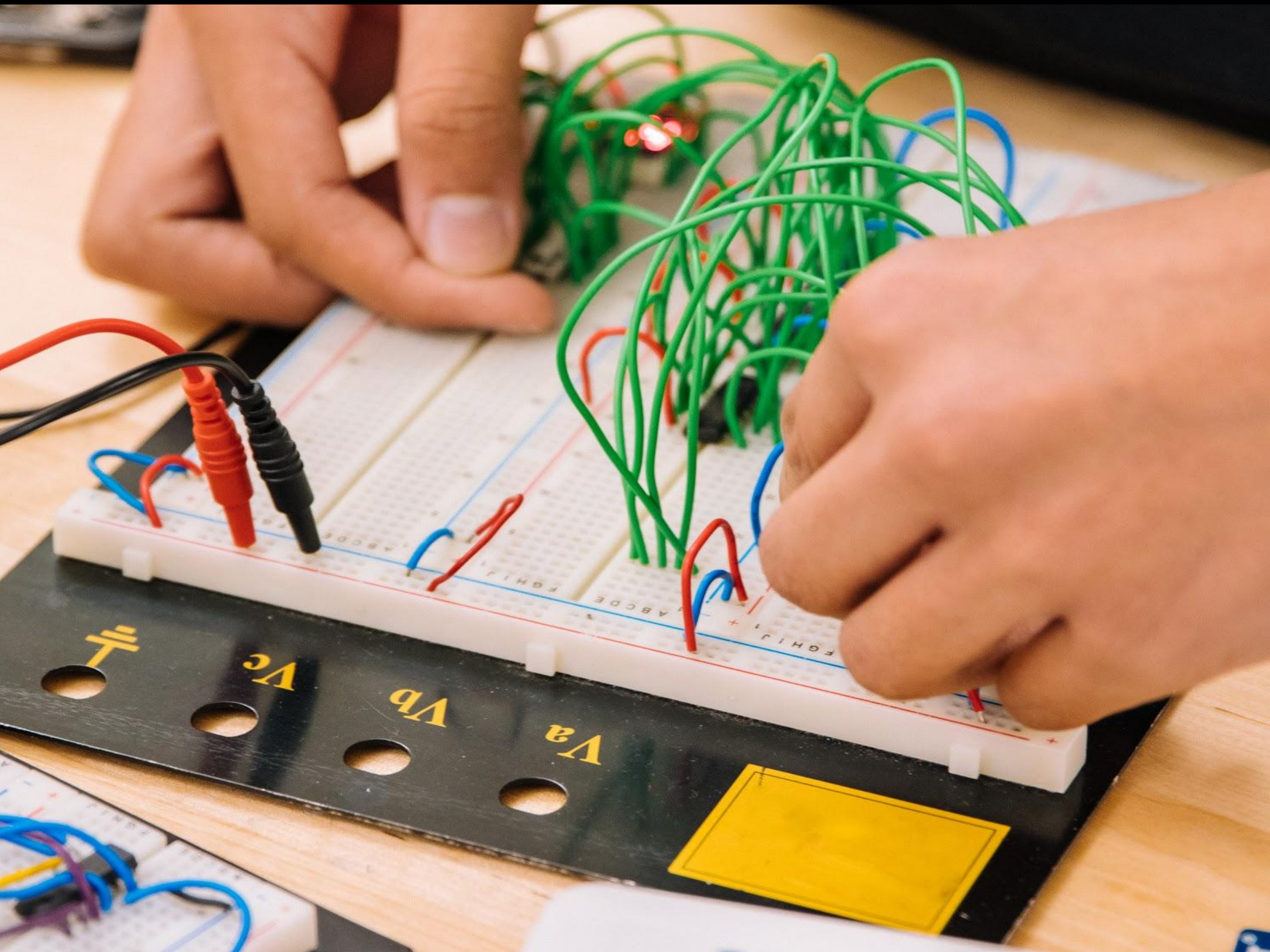
[pop-machina@ku-leuven.be](mailto:pop-machina@ku-leuven.be)

 This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 821479





# What are the outputs?



## Pilots

Urban development framework along with its methodologies and collaborative production tools in real and diverse operational settings.



## Social Collaboration platform

A suite of tools that harness ICT and digital technologies to support collaborative production, knowledge and resource sharing.



## Pop-Machina Academy

Immersive circular making and innovation programme to provide local Maker Champions of the seven pilot cities of Pop-Machina with technical and practical know-how



# Pop-Machina Academy



## The Objective

The objective of the distributed online training programme is to provide local Maker Champions of the seven pilot cities with technical and practical know-how to build circular maker communities.

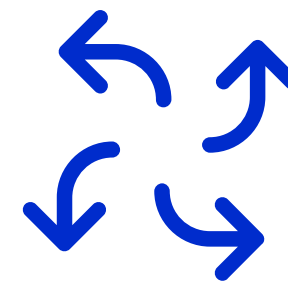
The approach follows an instructional, guided and autonomous path. Includes principles such as STEAM and life-long learning, Learning by Doing methodology and addresses circular and collaborative manufacturing.

## CHALLENGE SET UP

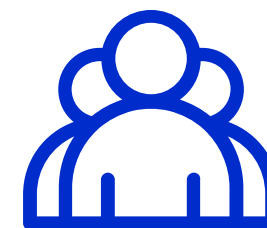
Co-creation journeys based on local context, identifications of problems, rethinking practices and addressing them through collaborative making. Throughout the process we are reflecting on the Circular Maker Space capability in terms of resources, people and skills. Collectively prototyping a variety of activities together with the communities to finally reflect and evaluate the outcomes for further iterations.



**Local Actor Network**



**Resource procurement**



**Circular Maker Space**



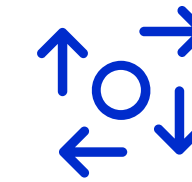
FACEMASK / LEUVEN

# ‘How to make the citizens of Leuven aware and encourage them act and participate?’



## Maker Champions

Tine, Robin, Thibault & Julie



## Framework

Covid regulations and two weeks time to plan & conduct activities

Outputs: Communications campaign with poster, website and a downloadable android app.

Accomplishments: Collaborative work from maker Team and municipality. Their initiative was also published in the local “Econieuws”.

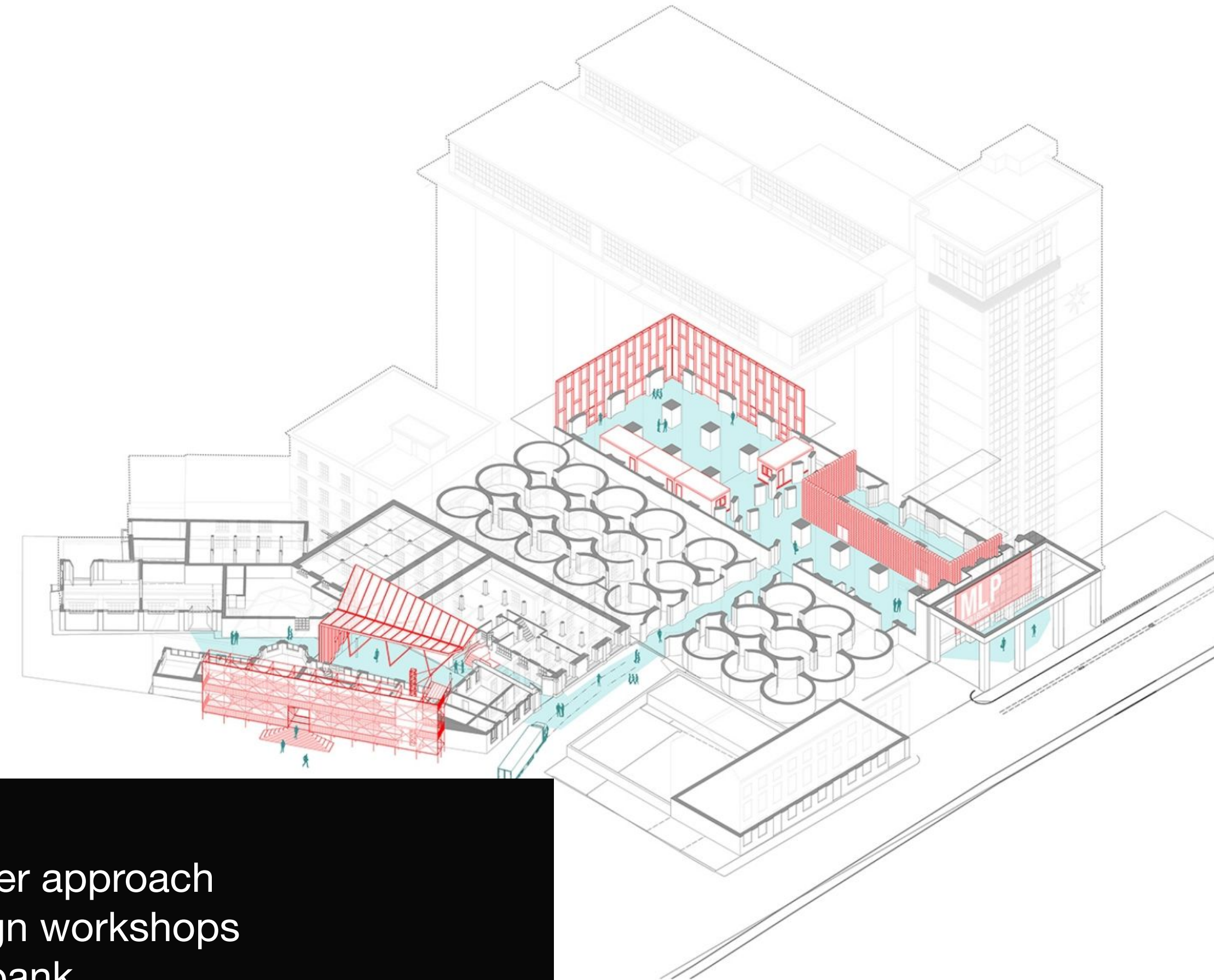




# Maakerpleerlek Leuven

Maakerlerpleek will be a workshop and meeting place where people from Leuven can share space, materials, ideas and knowledge.

Together with the City of Leuven, Maaklerpleek will realise their ambition and continue to focus on creativity, innovation and cross-fertilisation between different sectors, companies, educational institutions and organisations.



Multi-layer approach  
Co-design workshops  
Materialbank

# FAB LAB BARCELONA



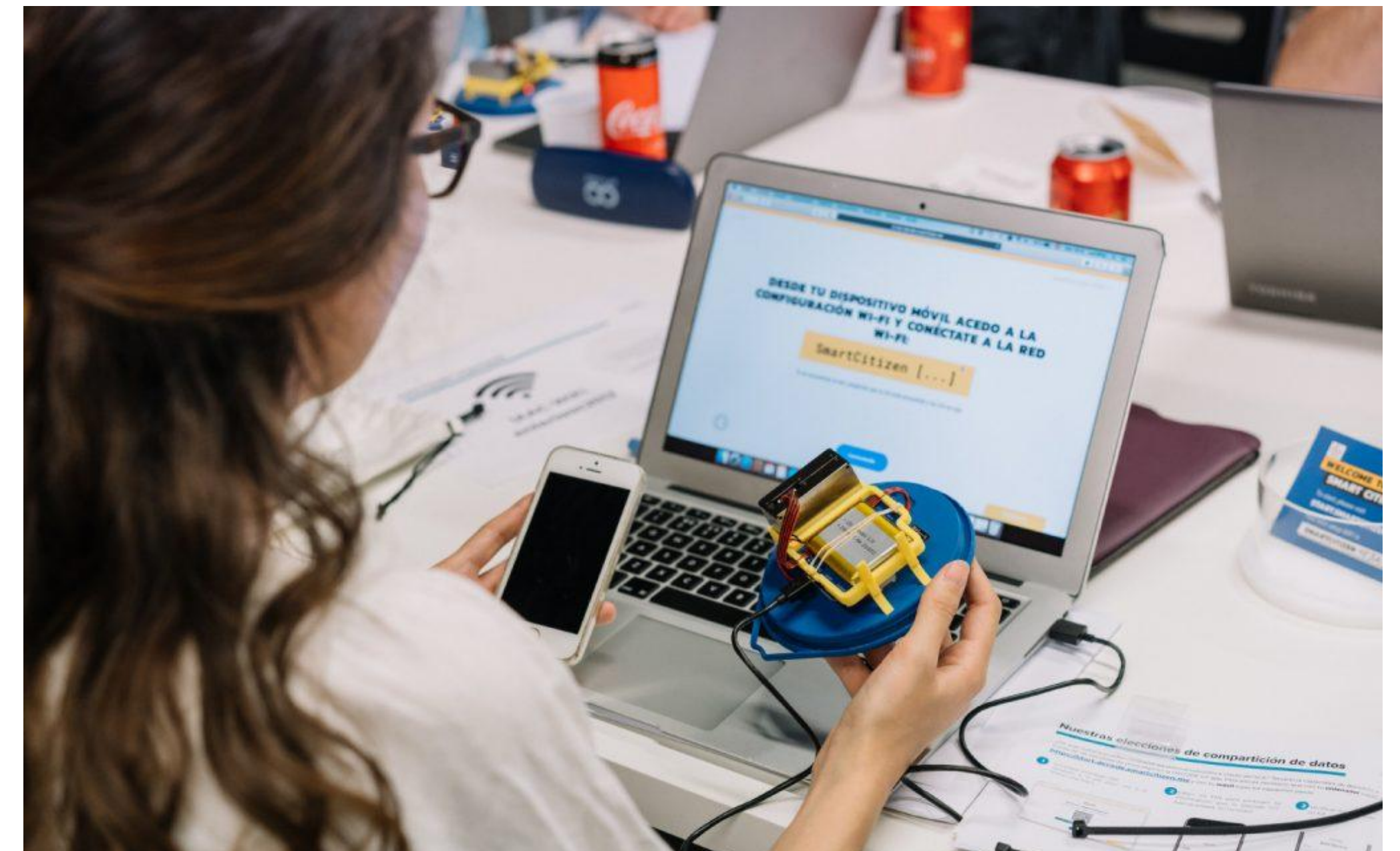


## Citizens at the core of a societal transformation

Our glasses offer a different way to look at the world, through the potential of technology, distributed manufacturing, sensing, digital fabrication,...

But technology is nothing without people. Our focus lays on communities and citizens who use this technology as a means to work on and solve their challenges and problems

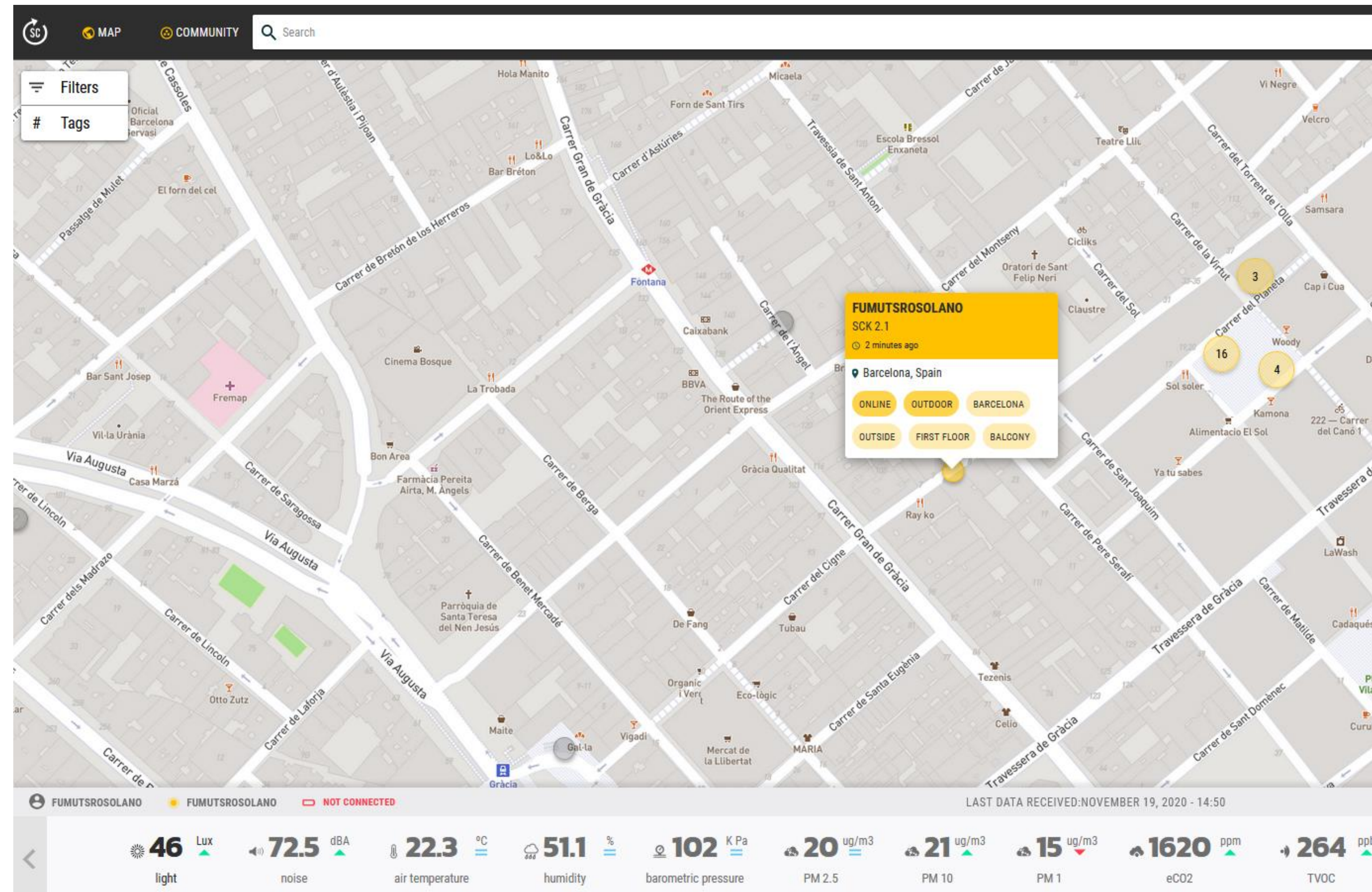
# *the* Fab Lab Barcelona *glasses*





# Platform ecosystem & Stakeholders Network

[smartcitizen.me](https://smartcitizen.me)





# Towards a green, inclusive and circular transition

**SISCODE** is an EU funded project, whose objective is to foster the use of co-creation methodologies by policy makers. It is based on bottom-up pilots that apply design to disseminate responsible innovation and research.

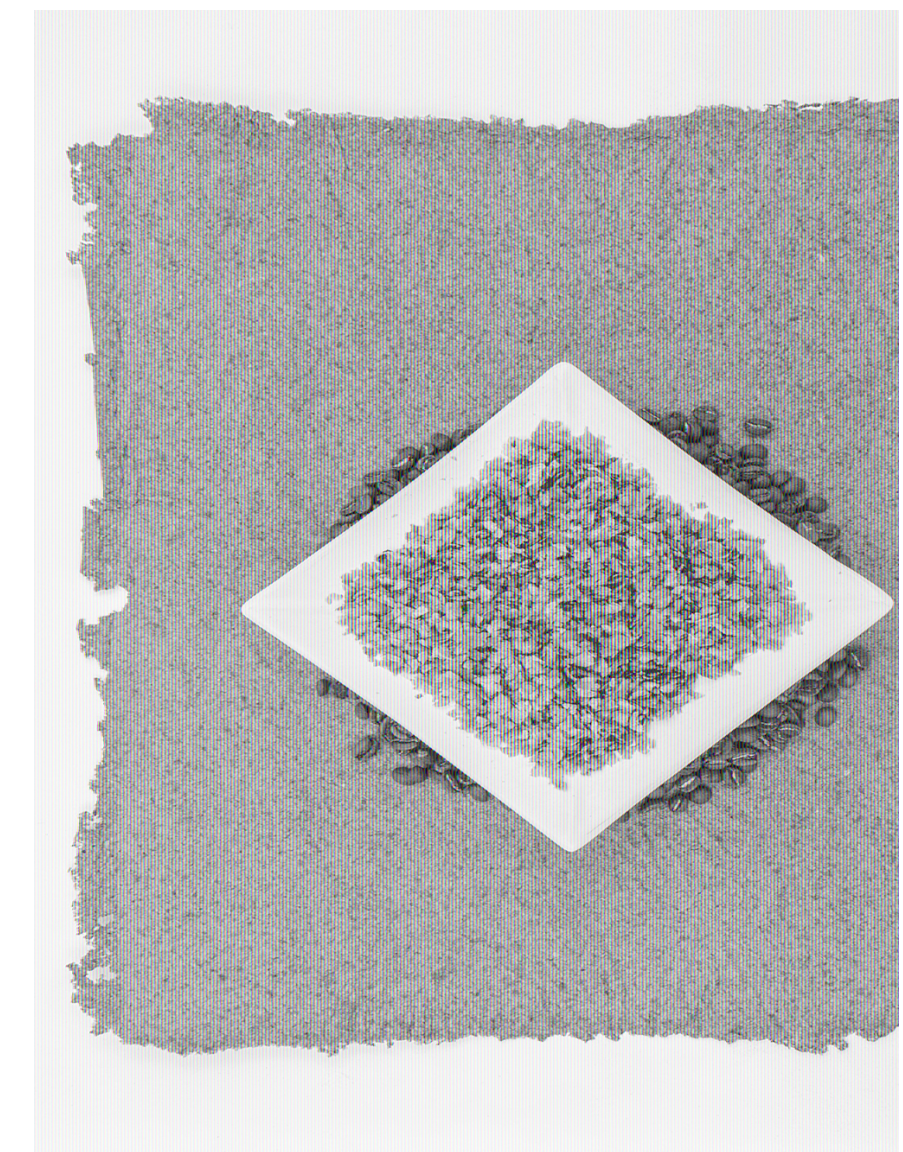
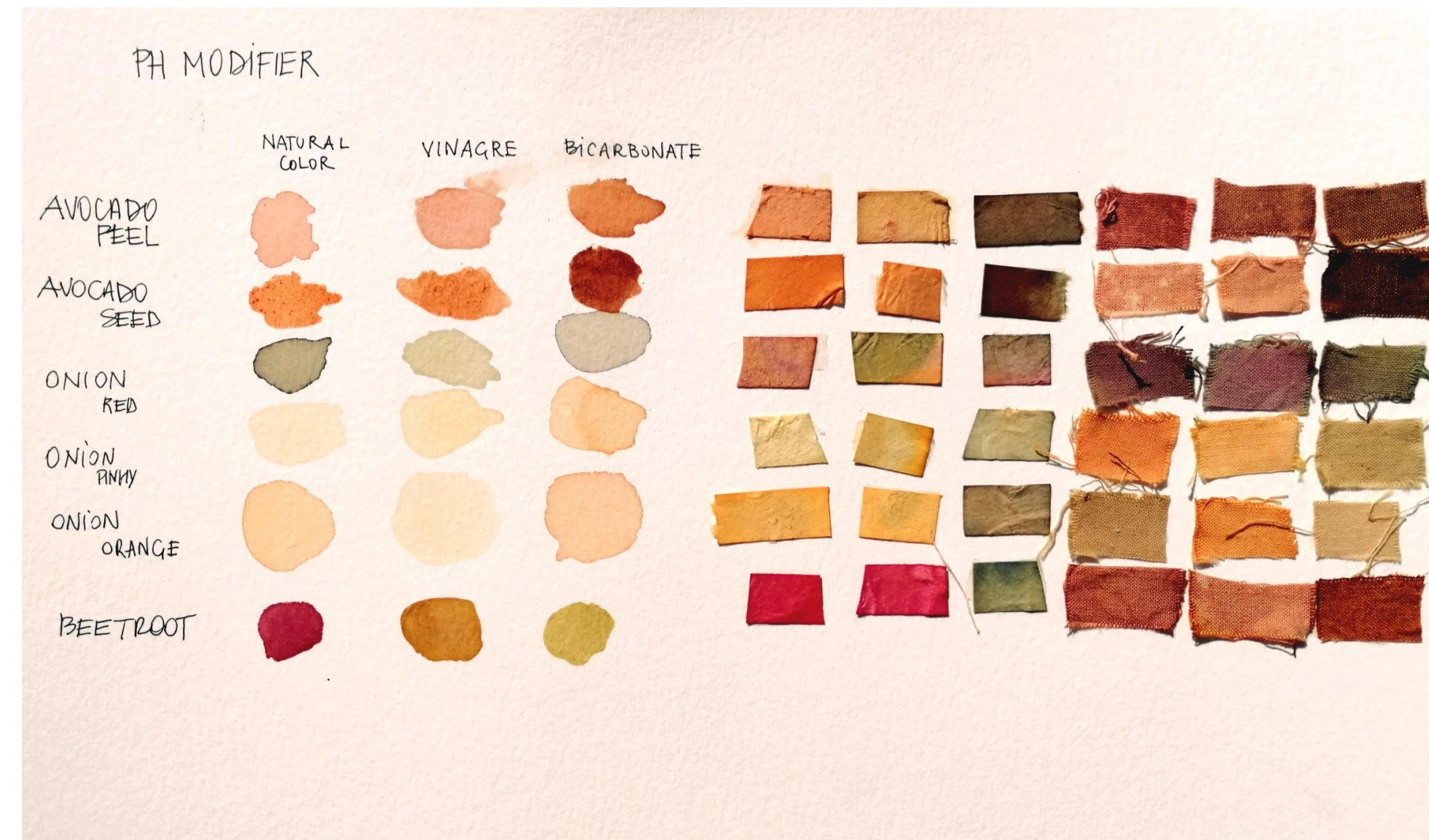
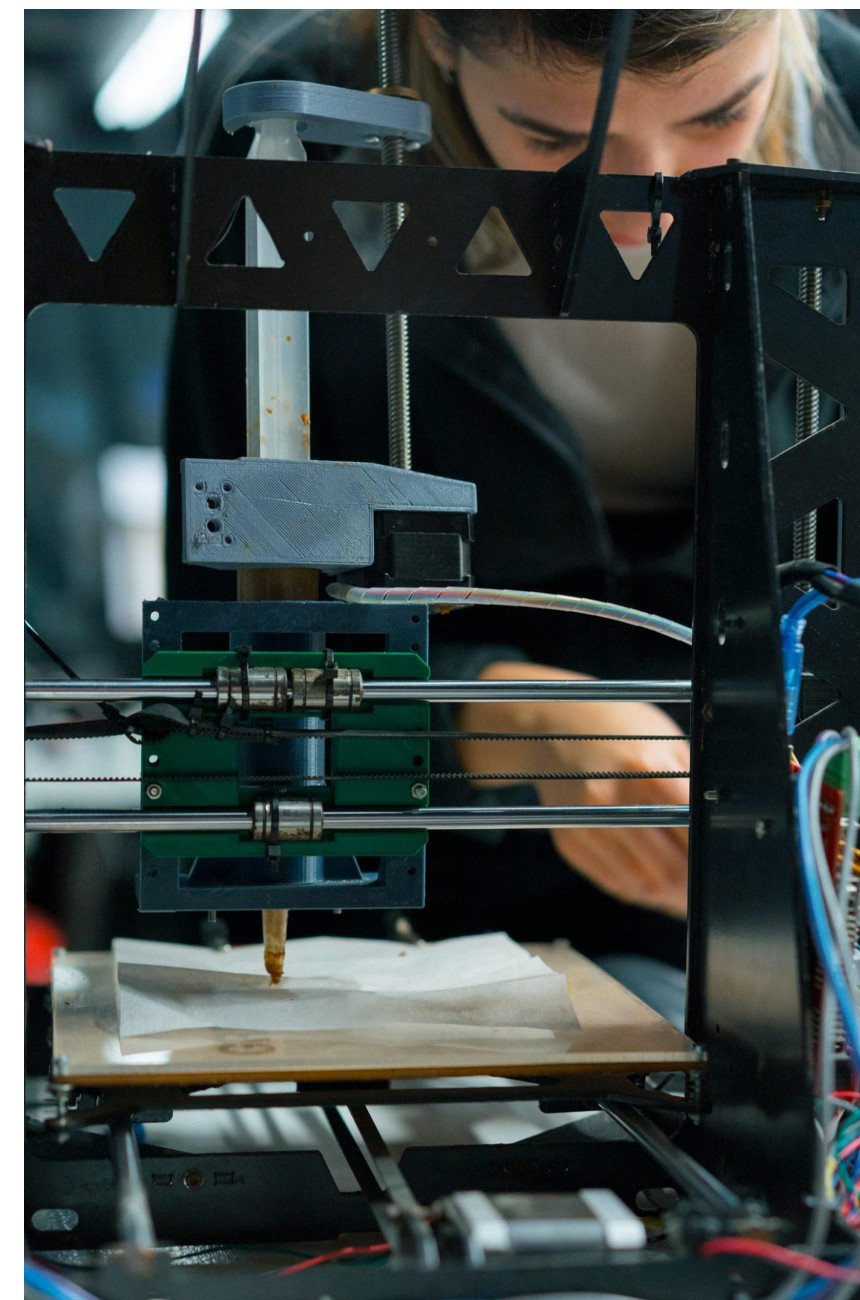
These pictures belong to the Remix el Barrio exhibition in the pilot in Barcelona, focused on **circular incubation** of local designers' ideas.

SISCODE project

Remix el Barrio exhibition



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 788217.



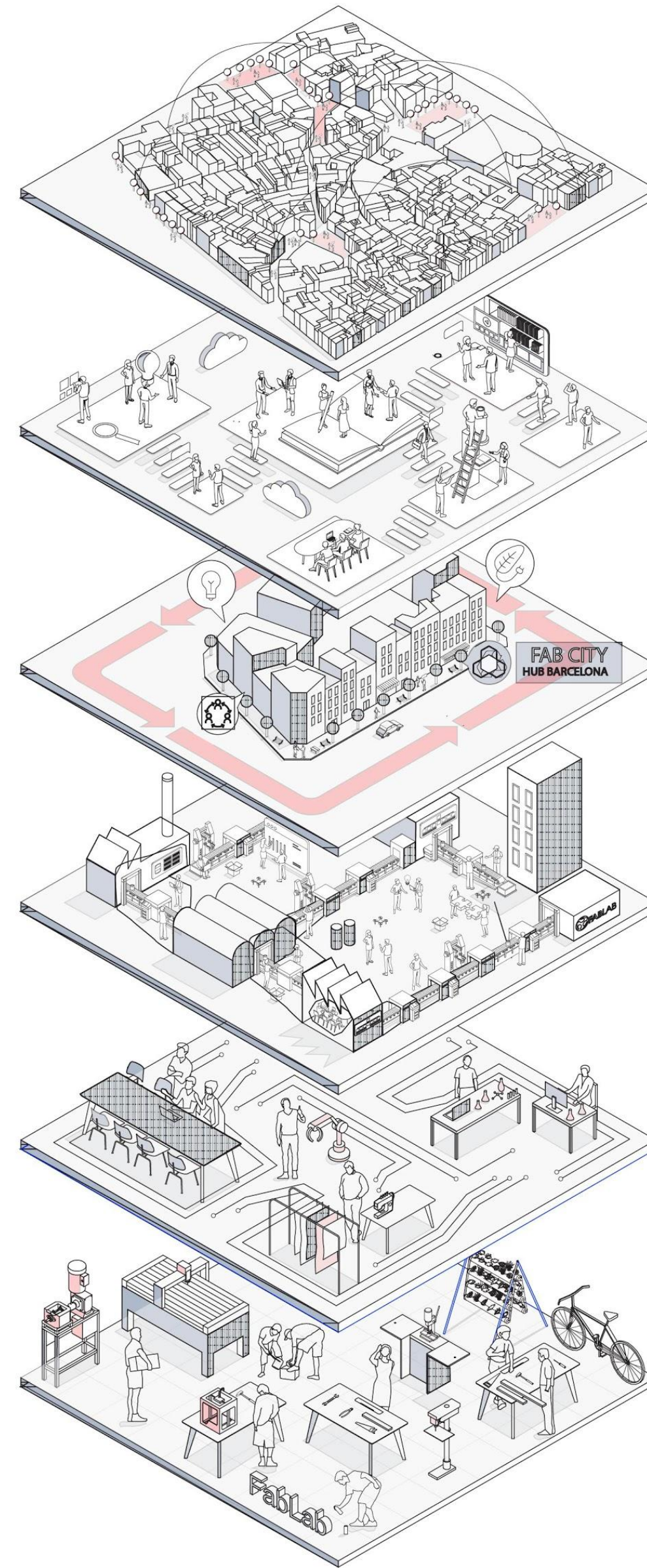


# Fab City Full Stack framework

A Fab City methodology applied in order to identify and collaborate with different platforms and actors, organized in different “stacks”:

- Cities Network
- Platform ecosystem
- Shared strategies
- Distributed Incubation
- New forms of learning
- Distributed infrastructure

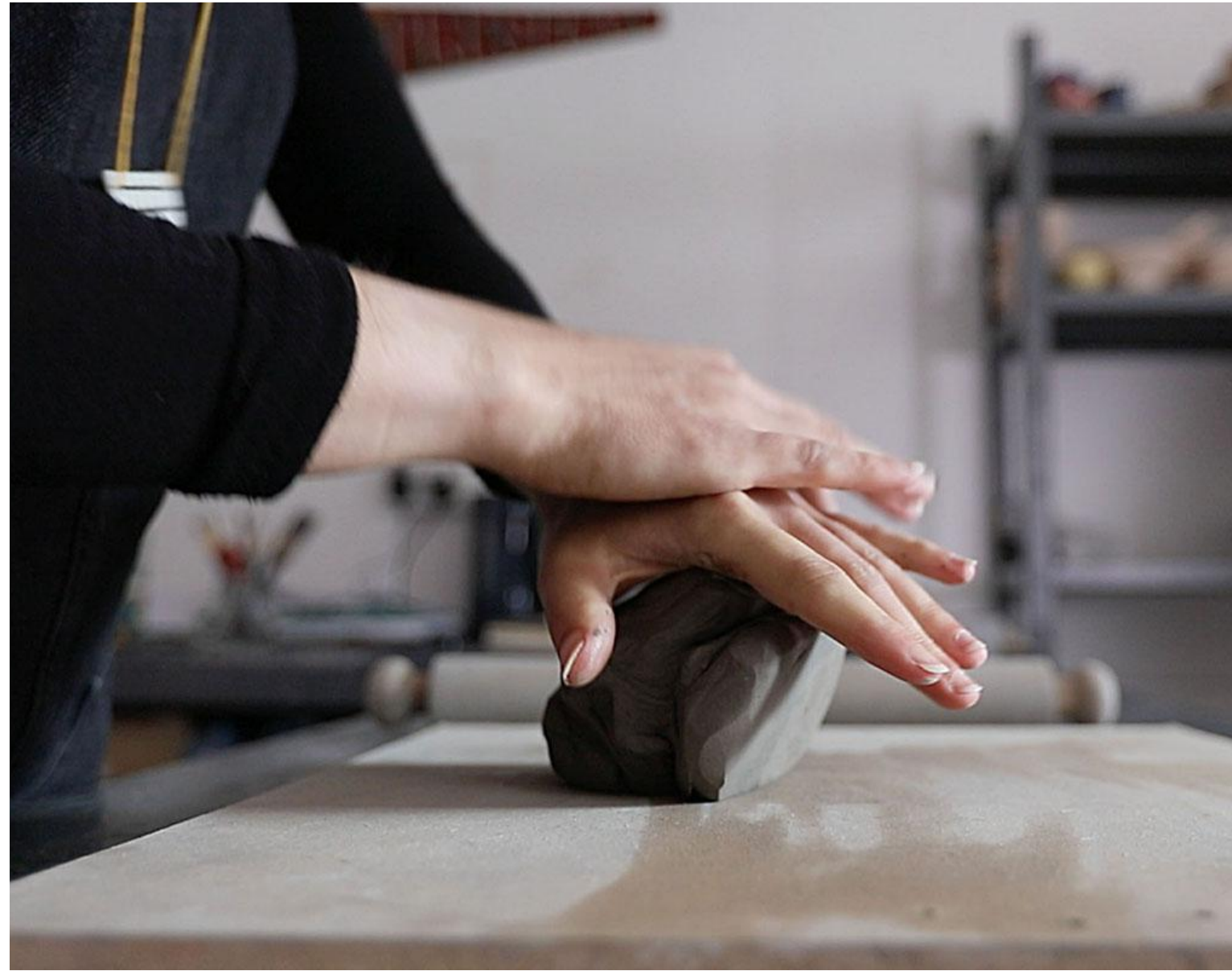
<https://fab.city/>





# MAKE WORKS





# Make Works

Make Works is a **global library for local manufacturing**, where you can search by material, process or by factory name to find someone to help you bring your ideas to life. We host and verify manufacturers, fabricators and factories of all shapes and sizes through recommendations from people like you, and through our teams on the ground.





Make Works

# Manufacturing for everyone

## Why?

Local manufacturing is better for the environment, sustains local economies and supports communities. Make Works is open and accessible, connecting people directly to making and repairing things, **democratising access to production and investing in local economies**, skills and community. We sit within the Fab City Global Initiative which is enabling a shift away from the industrial paradigm of Product-in Trash-out, by enabling the return of manufacture to cities supported by a Data-In Data-out urban model.

## For who?

Make Works is for everyone, whether you want to get a one-off bespoke item made, a product designer exploring new materials, or a small business looking to outsource your manufacturing. We'll be able to help you learn about and navigate your local manufacturers.





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