



Fab City Hubs Toolkit

Carlotta Fontana Valenti – Volumes



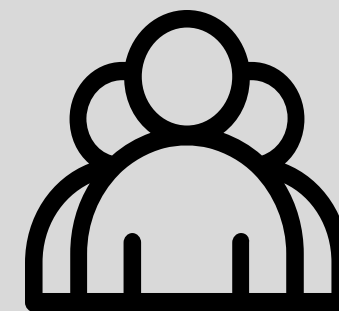
This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 869595



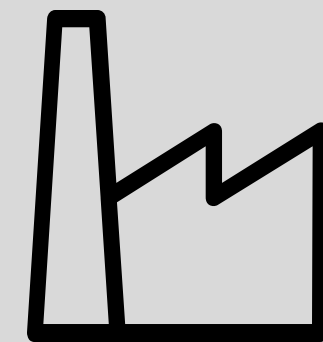
MISSION



**Rethink the way cities govern
their material resources**

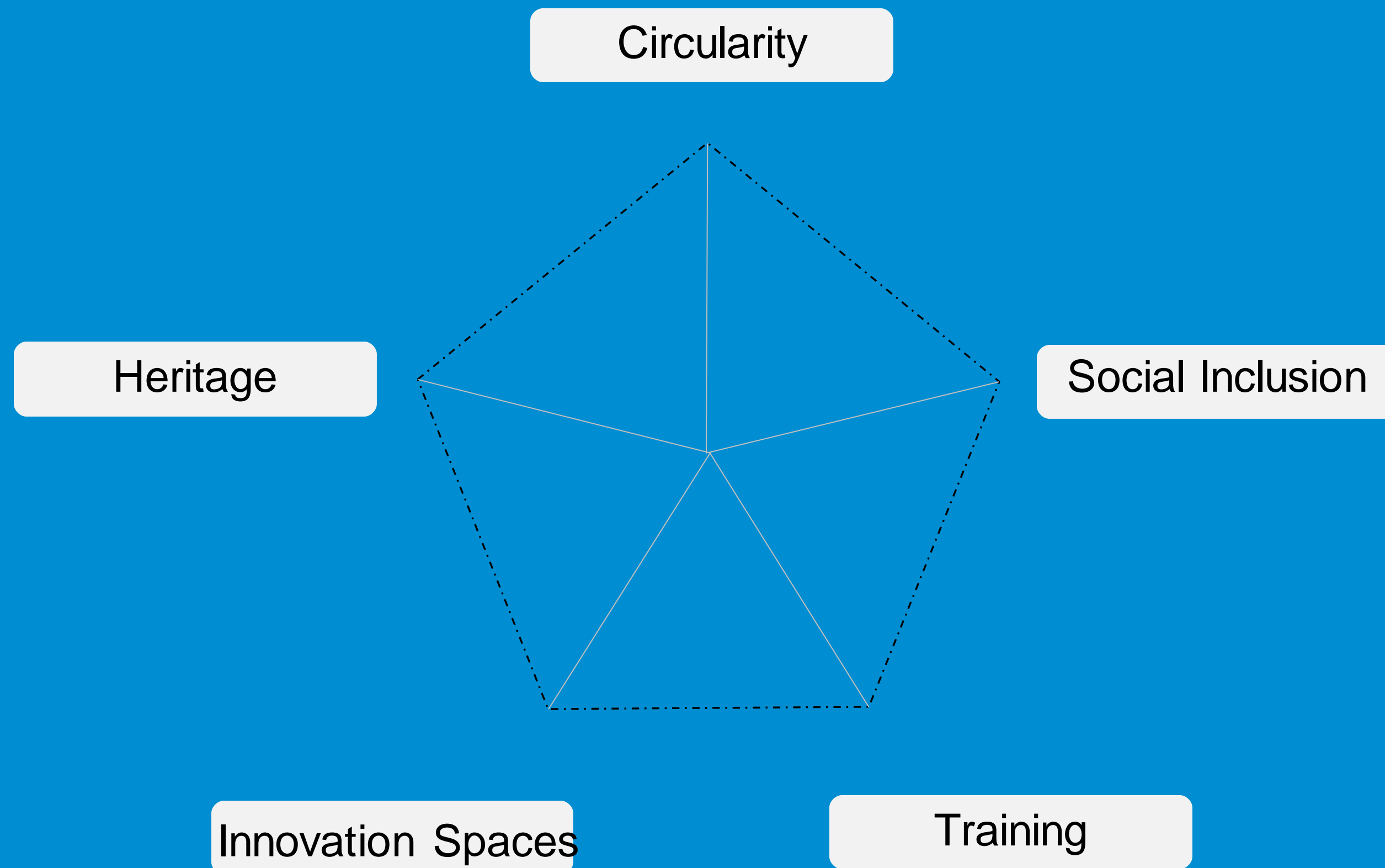


**Foster social inclusion through
craftsmanship, culture and
heritage**



**Shape new socio-economic and
sustainable identities of industrial
historic sites**

KEY CONCEPTS



Circularity

Redefining growth and generating positive societal and environmental impact

Social Inclusion

Connecting global and local actors through an iterative, inclusive, and user-centred process

Vocational Training

Connecting training and innovation around diverse and interconnected topics

Innovative Spaces

Embodying exploration and prototyping within and beyond the four walls of a physical space

Heritage

Choosing features today, with references to the past, in order to design the future

9 PILOT CITIES

Pilot cities will follow unique strategies, aligned with pilot size and theme, towards a **common approach to mission-driven innovation and multi-scalar strategy.**

Through **action research** at the neighbourhood level the nine pilot cities will each connect to local **traditions of the industrial revolution** such as wool, textiles, leather or food.



WHAT MAKES CENTRINNO UNIQUE?



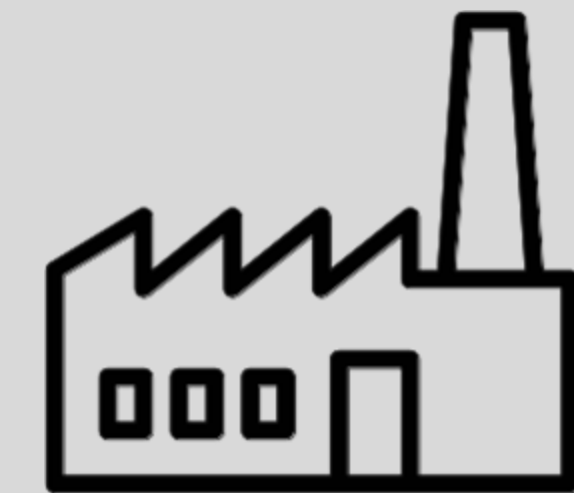
An innovative, inclusive approach

Pursuing the democratic potential of heritage making by encouraging the unpacking and exploration of place, through emotional recognition, identification and visualization.



Recognition of the collective and multi-layered nature of a place

A holistic, systems-based analysis of place aims to unlock the potential and opportunities for circular transformation processes in cities that draw on the power of community.

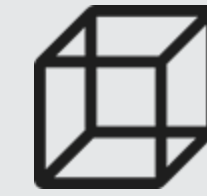


A focus on the Fab City Hub

Emerging from the Fab City Global Initiative, the Fab City Hub represents an evolution of the Fab Lab, Living Lab and makerspace. It responds to local needs and ignites global knowledge exchange within and beyond the walls of a physical space.

FAB CITY HUBS

as network activators

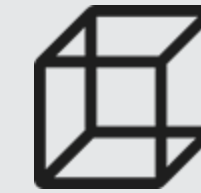


DEFINE

Understanding and building a global vision of **what a Fab City Hub is** and how it operates

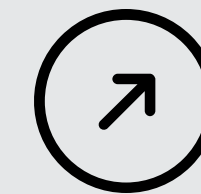
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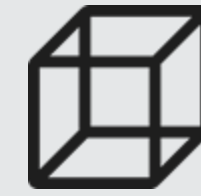


SUPPORT

Supporting the pilots to **co-design, kick-off and run a Fab City Hub** based on a global vision + local needs

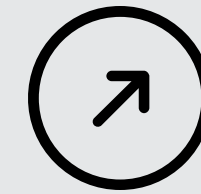
FAB CITY HUBS

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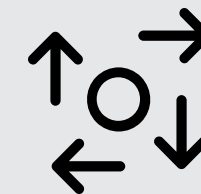
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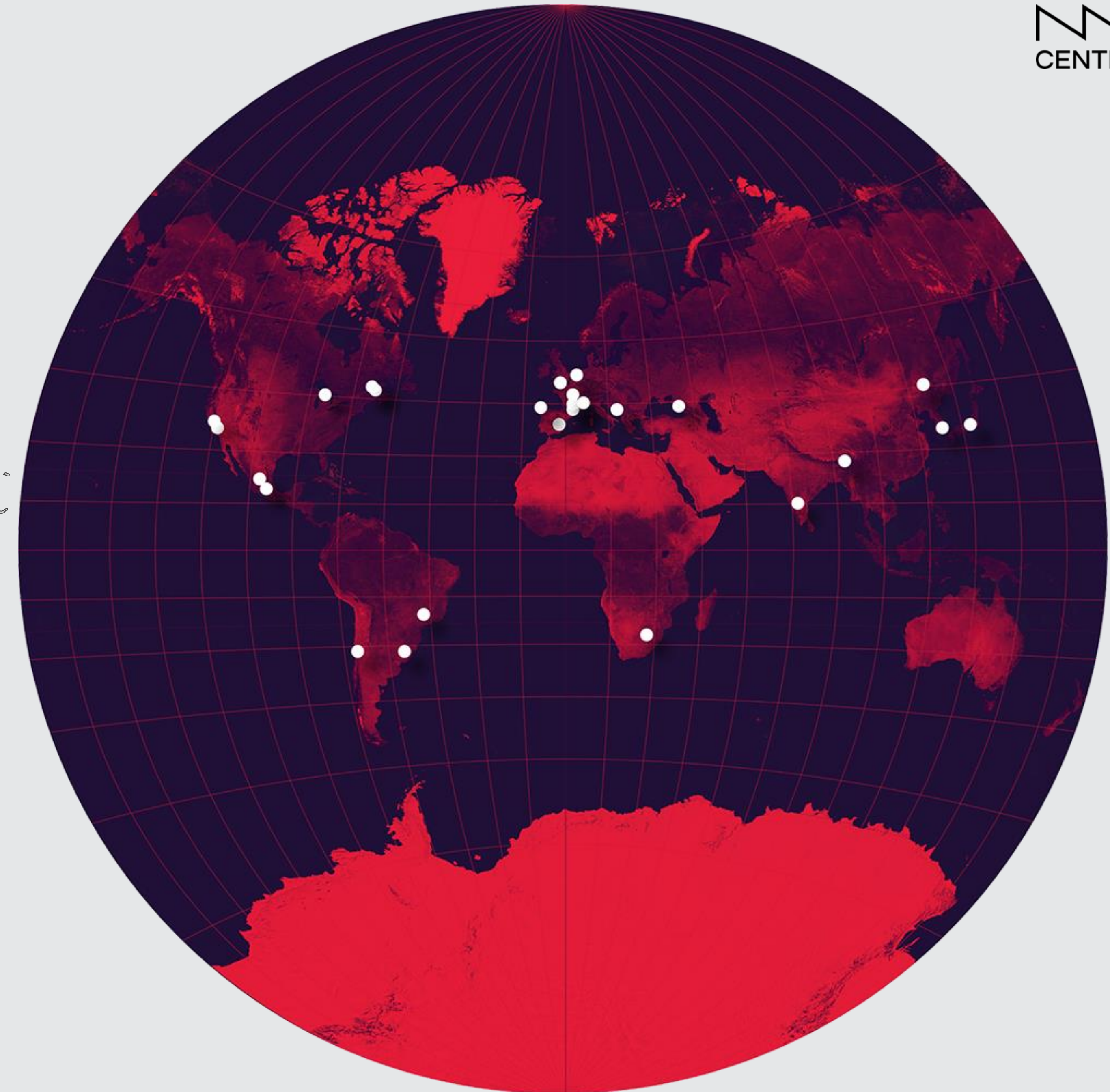
CONNECT

Make those Fab City Hubs operate together as **an international network of locally productive hubs** exchanging information, prototypes, members and experiences

FAB CITY GLOBAL INITIATIVE

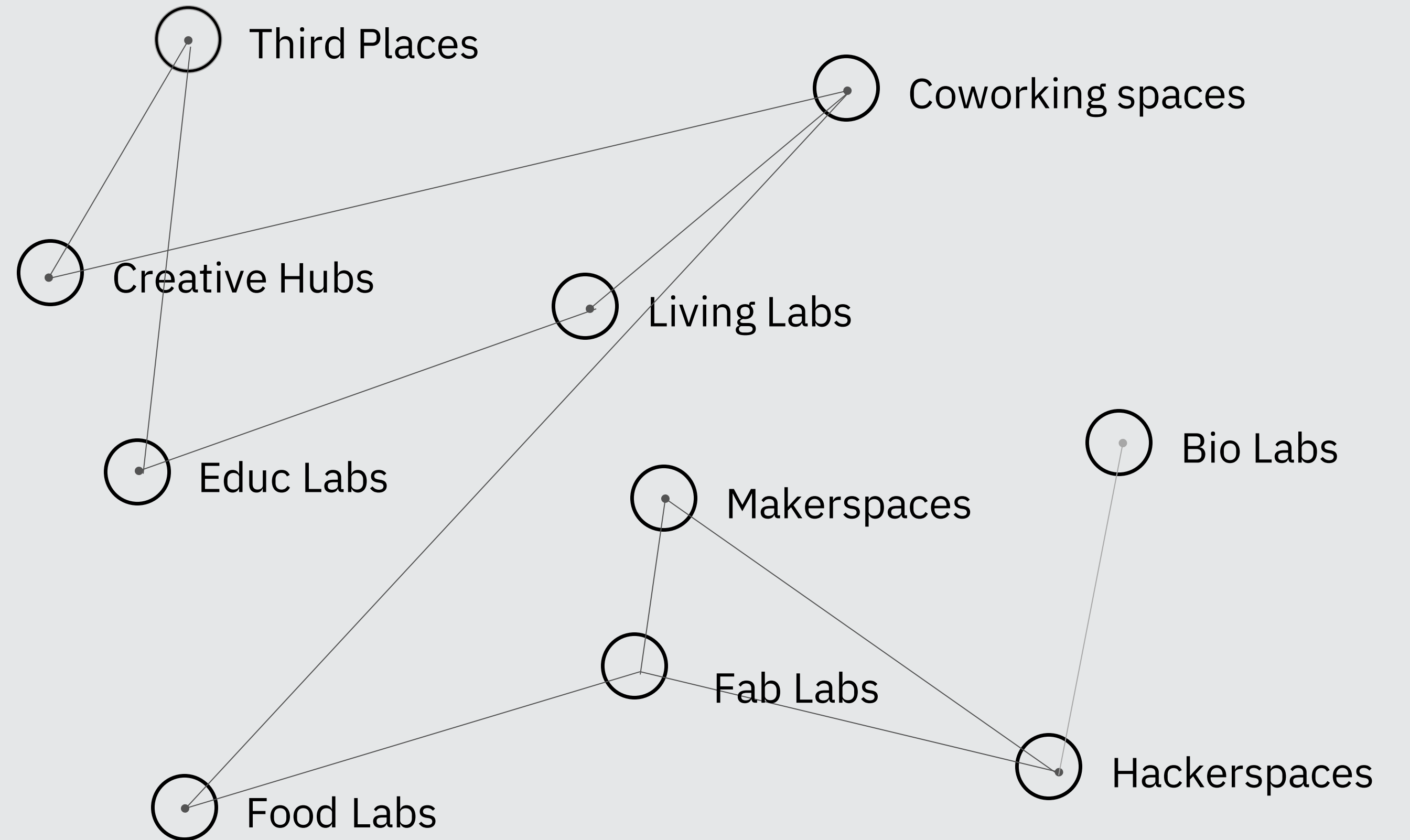
A global network of 38 cities

A new industrial paradigm, **materials stay local, and information travels globally, supported by distributed networks of innovation in creative hubs** such as Fab Labs and Makerspaces, while enabling the recovery of local knowledge around design and production.



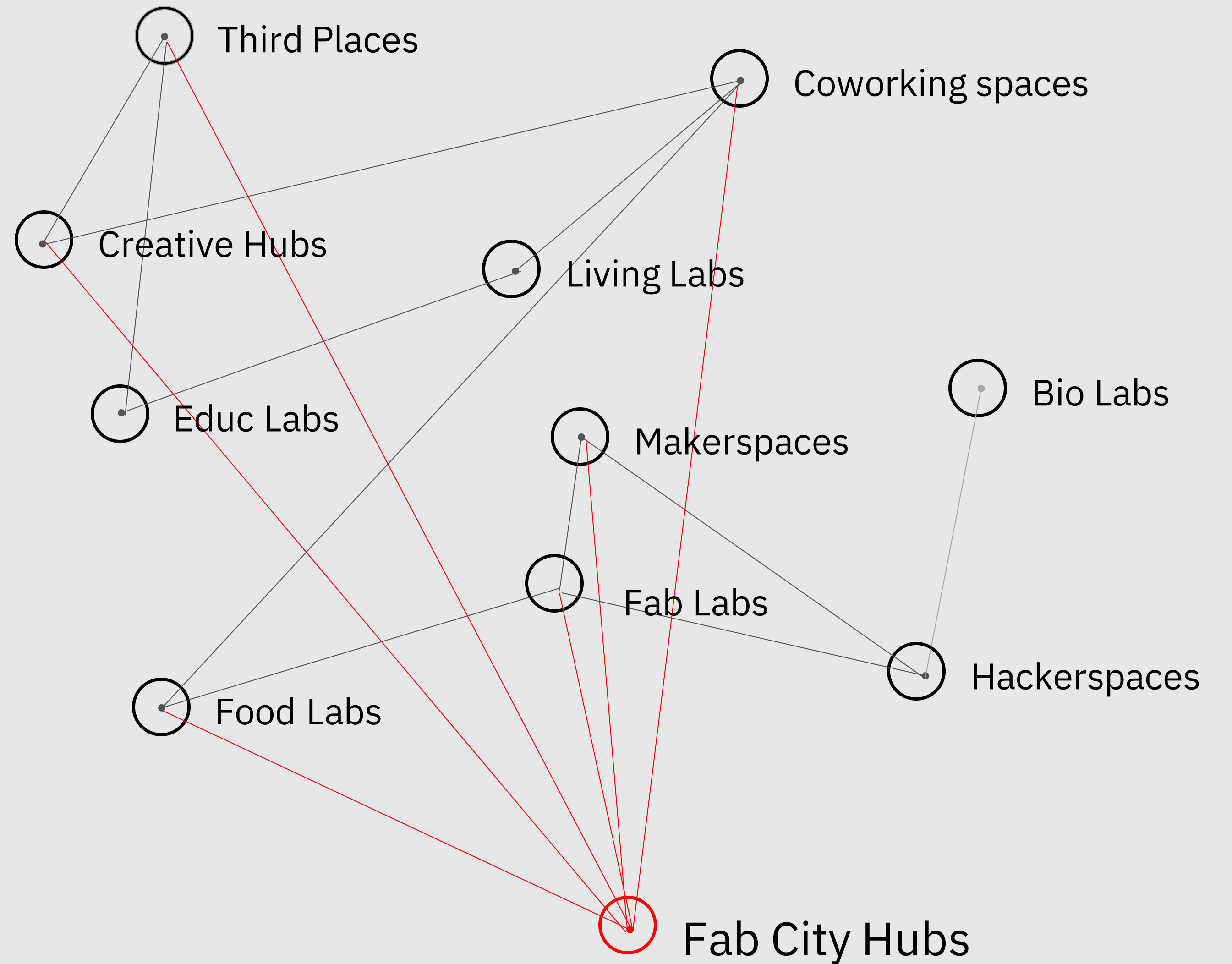
CREATIVE AND PRODUCTIVE HUBS

A constellation of hubs



CREATIVE AND PRODUCTIVE HUBS

A constellation of hubs



CREATIVE AND PRODUCTIVE HUBS JOURNAL

Based on Volumes previous experiences, a curated selection of inspiring creative and productive hubs in Europe.

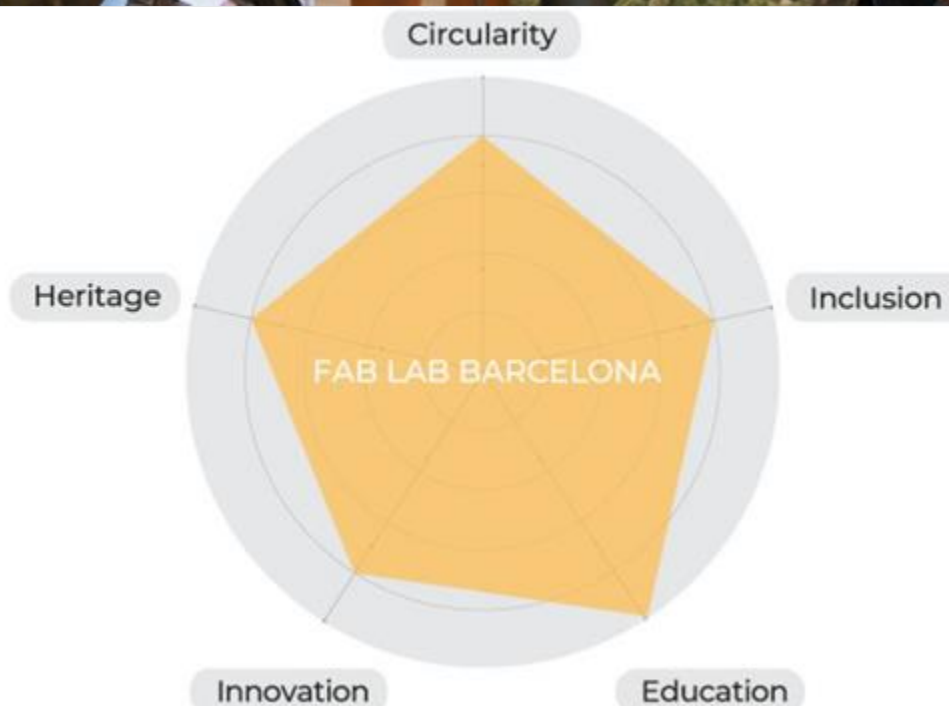


SELECTED HUB PORTRAITS

A collaboratively curated selection of hubs with different contexts, typologies, governance and business models.

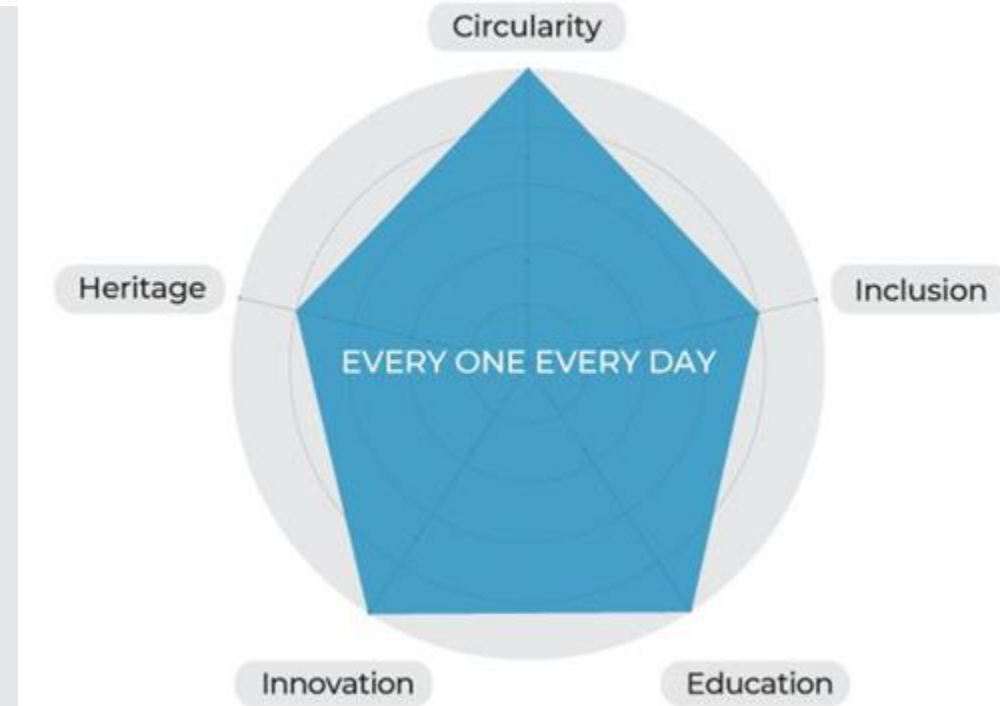
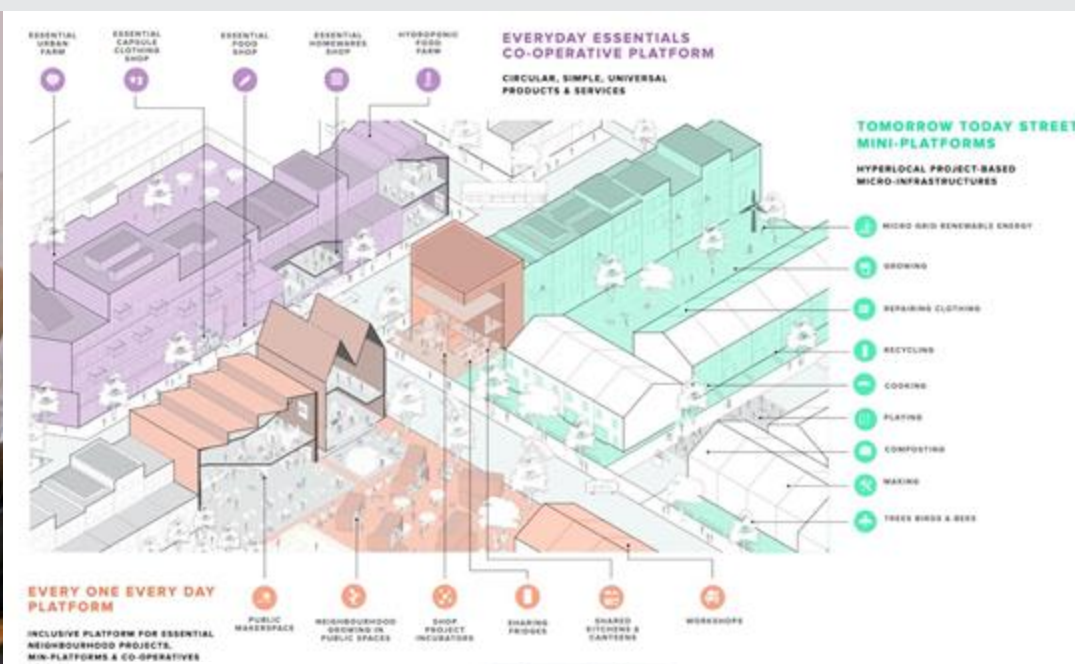
Fab Lab Barcelona

A Fab Lab that expands beyond the walls of the lab



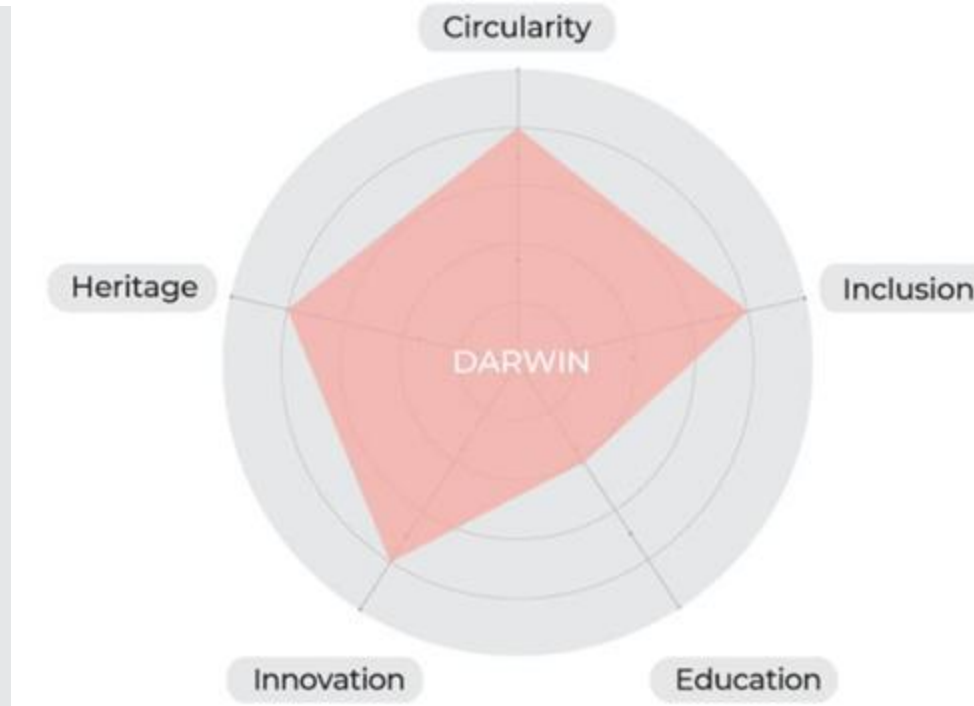
Every One Every Day

The hub as a distributed infrastructure



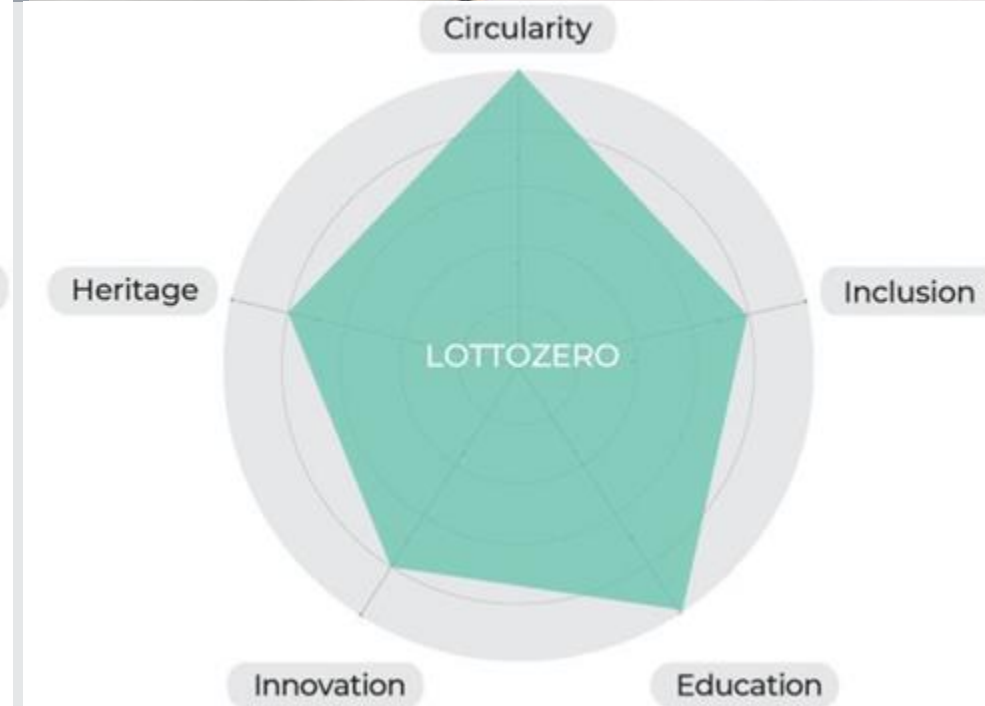
Darwin

“Ecological governance” of a large scale hub



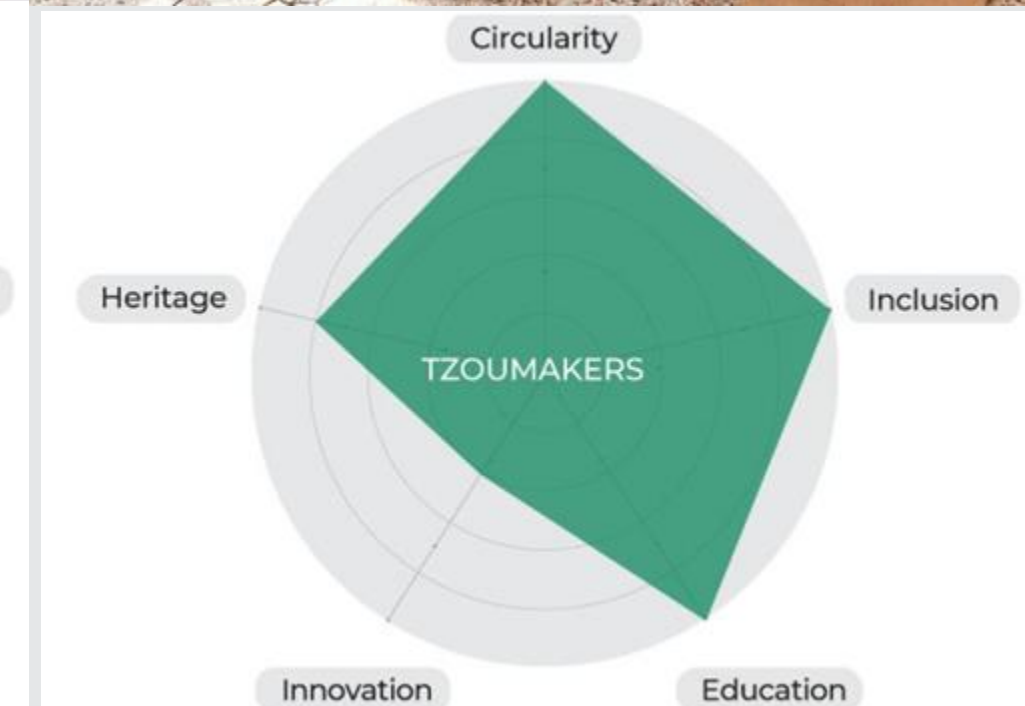
Lottozero

A creative hub but also a consultancy center



Tzoumakers

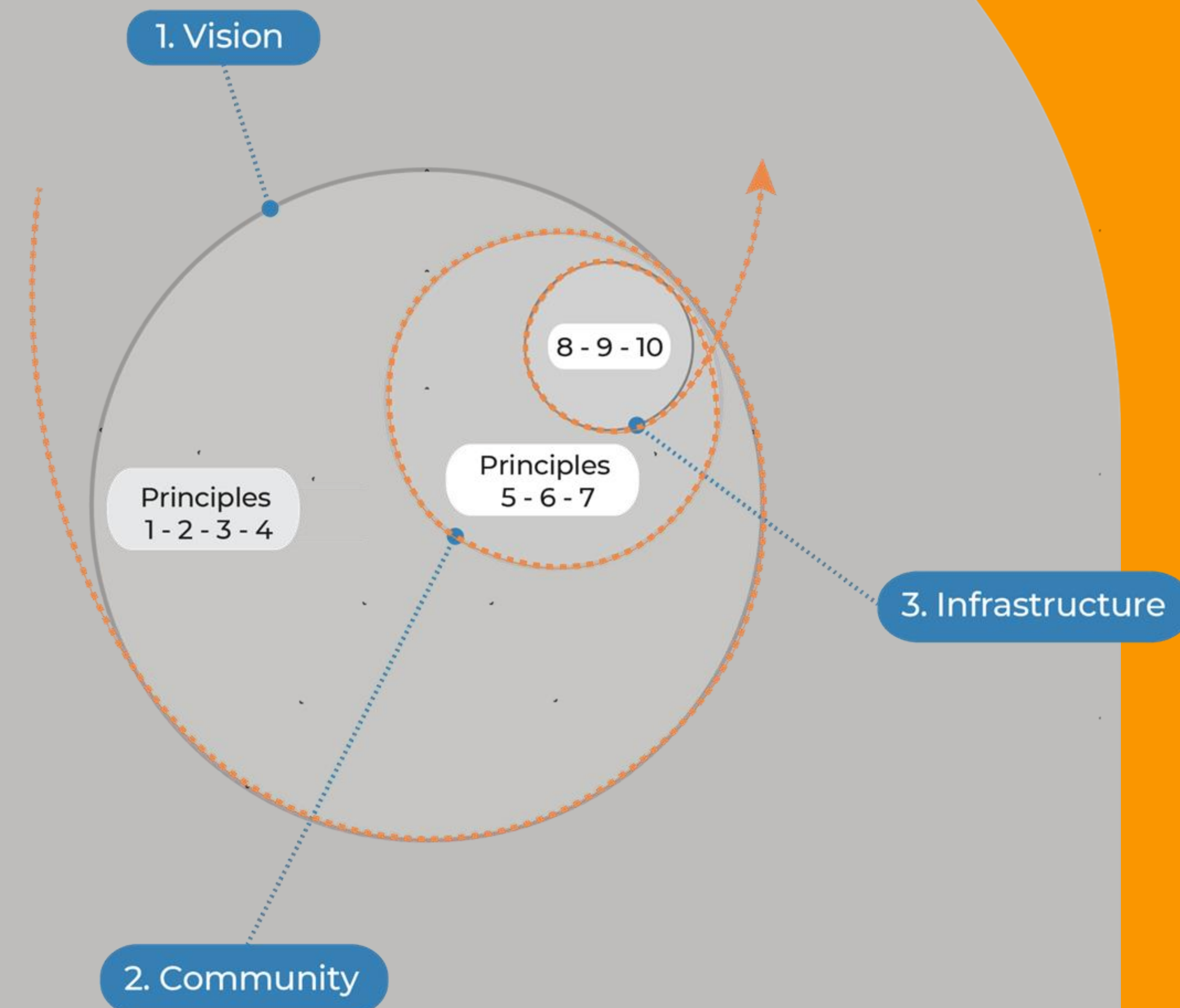
Super small, super specific, super connected.



10 PRINCIPLES FOR FAB CITY HUB

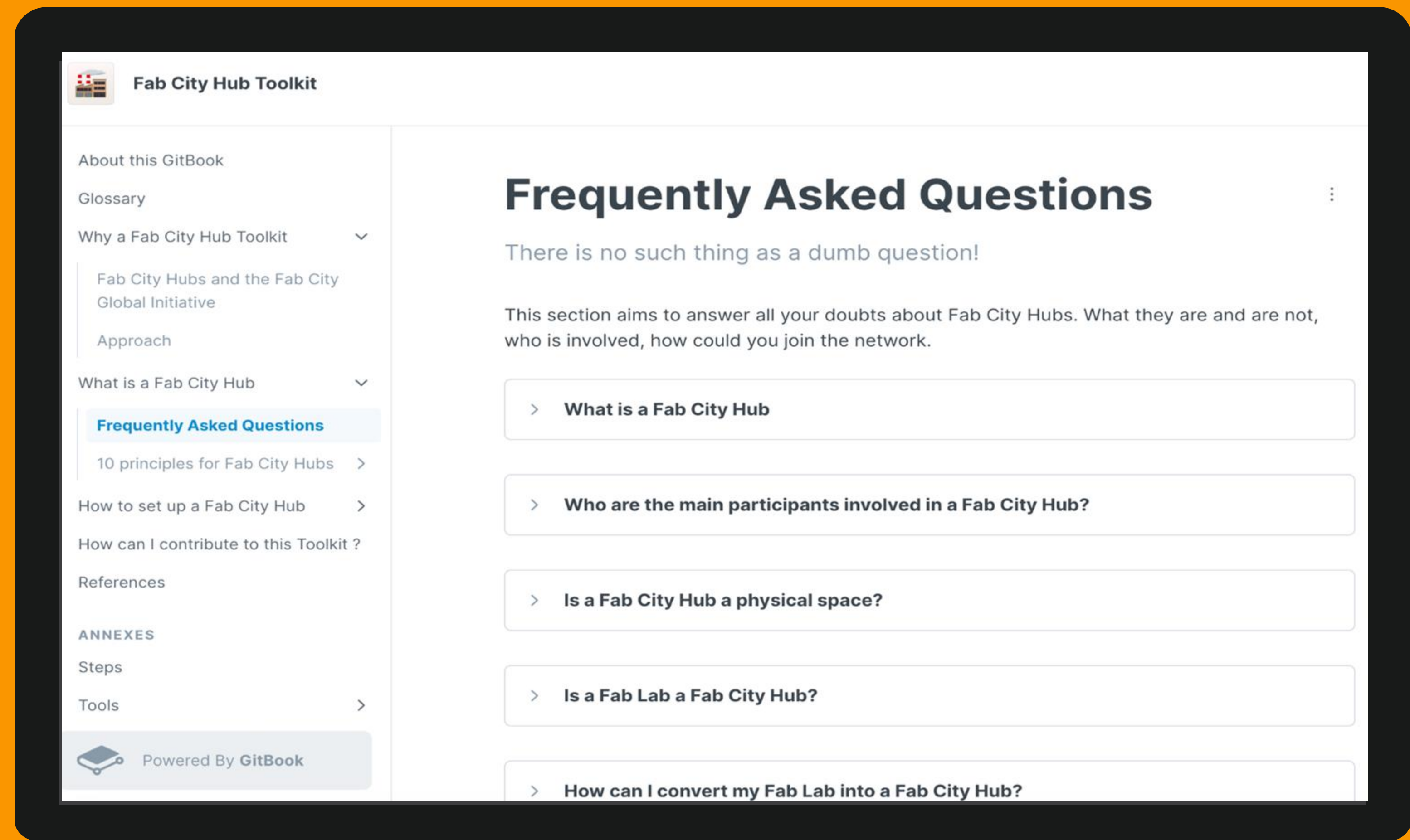
Guiding paths

to design your local
model of FCHs



FREQUENTLY ASKED QUESTIONS

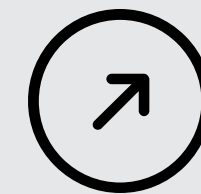
There is no such thing as a
dumb question!





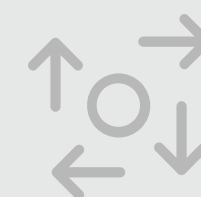
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Understanding and building a global vision of **what a Fab City Hub is** and how it operates



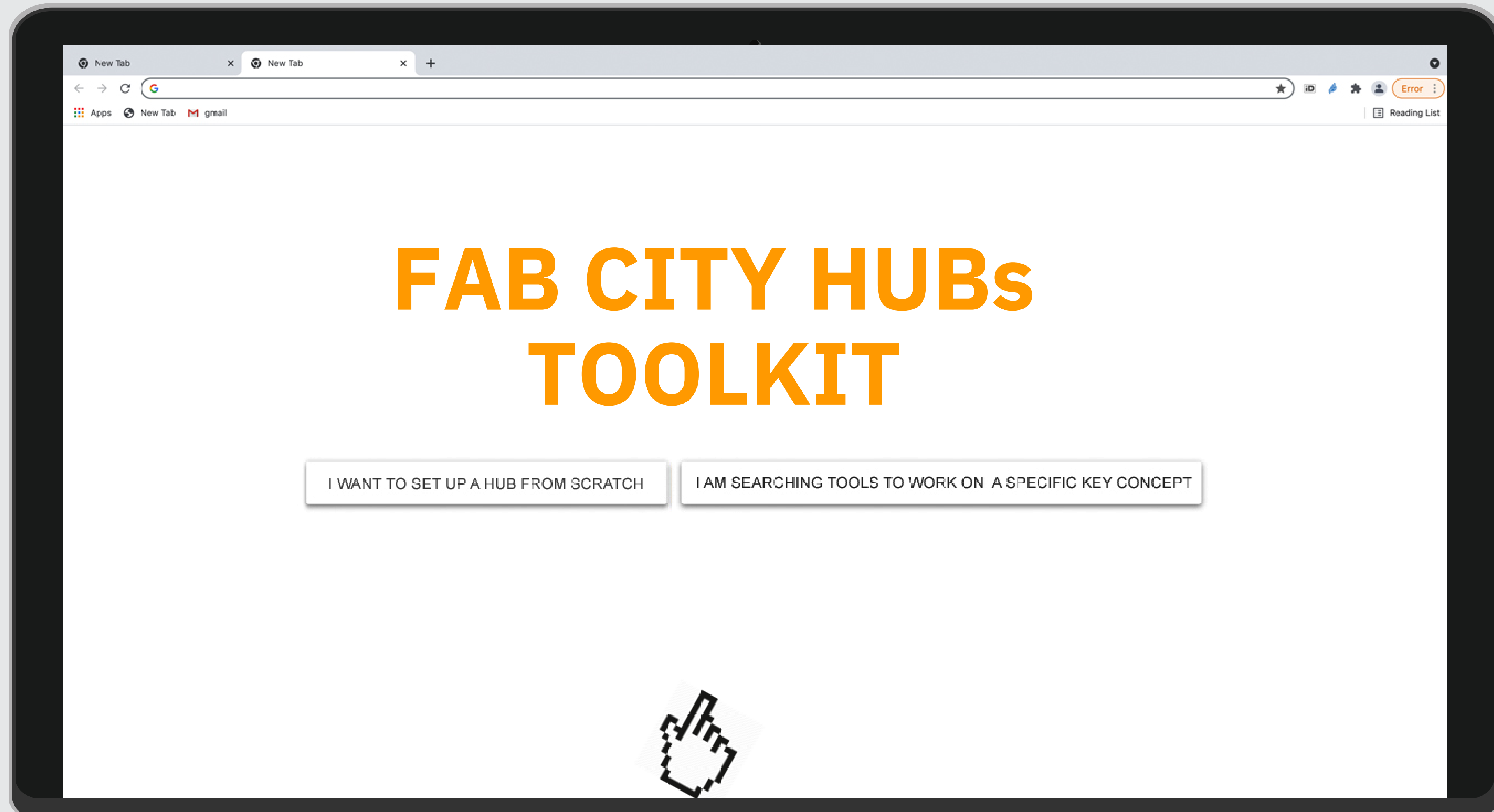
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WHY a FCHs TOOLKIT ?

During Centrinno

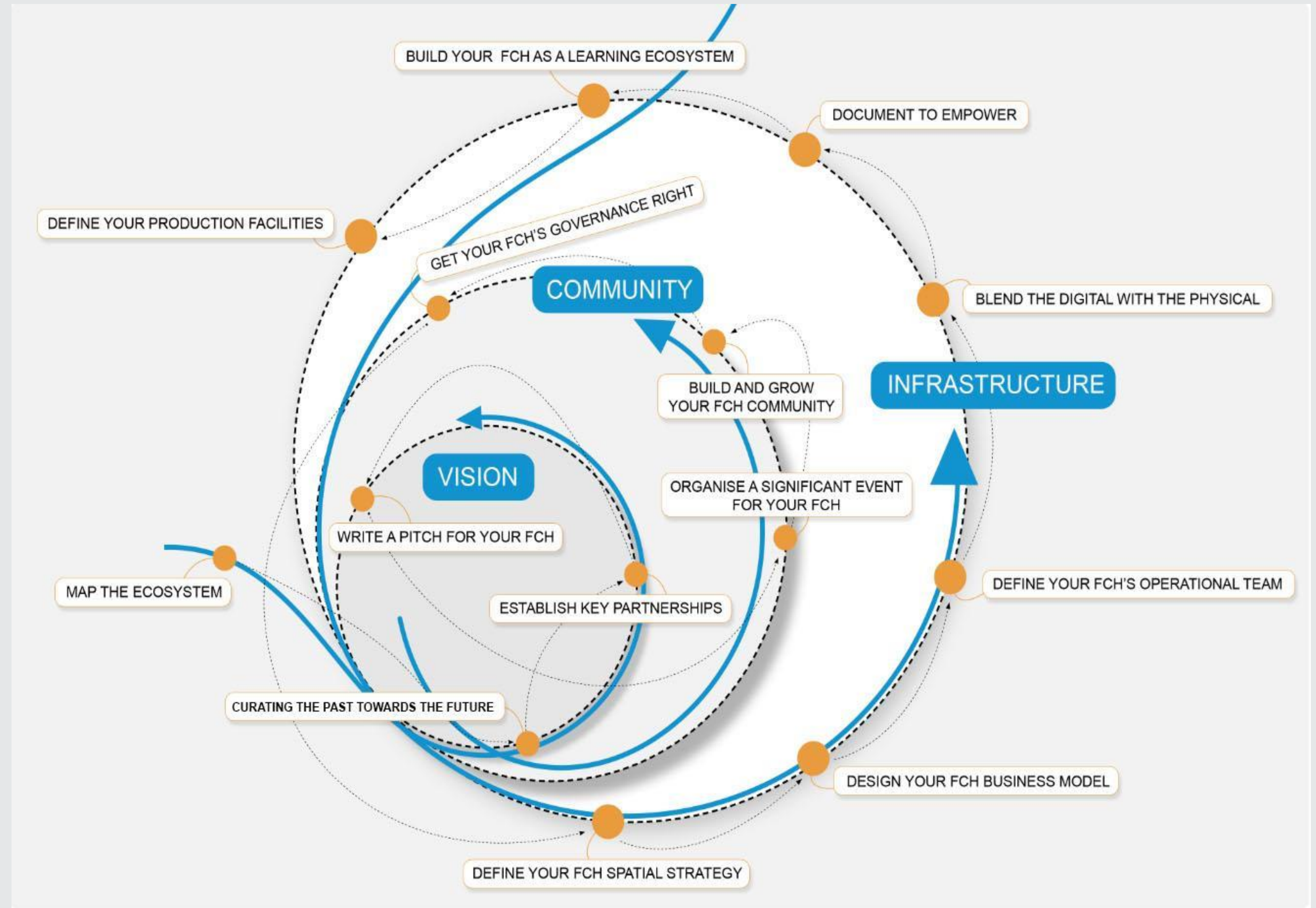
- **A strategic roadmap to support** Pilots to set up their model of Fab City Hub
- **A curated selection of tools, activities and methods** to support pilot in setting up their Fab City Hub model .

Centrinno legacy

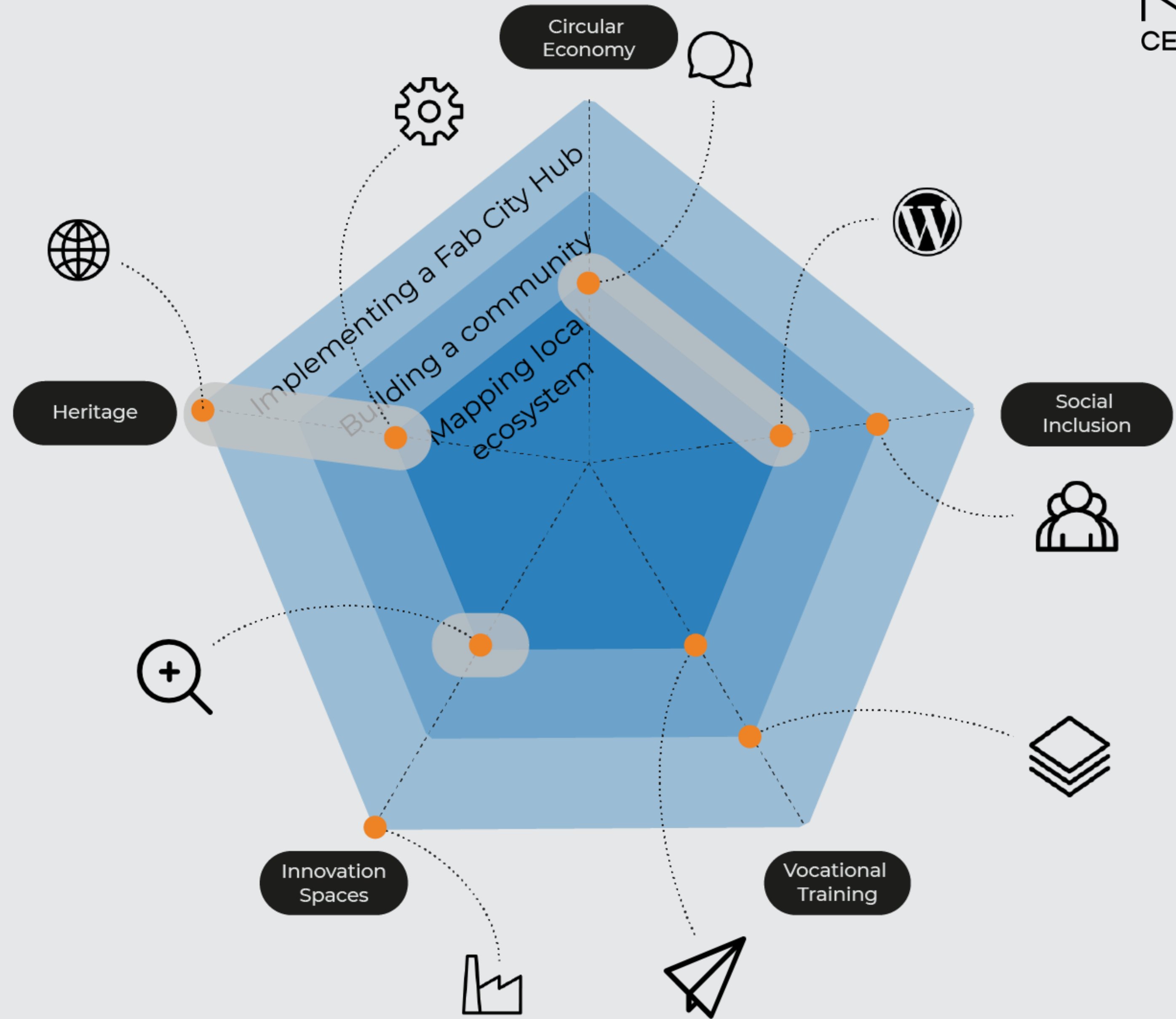
- **An hands-on manual** for replication of FCHs' in Europe and beyond
- **A communication document** to support the FCH Network mission: replication of FCH model and a tool for knowledge-sharing about FCHs.

A ROADMAP TO GET ORIENTED

Like a map, the FCHs Toolkit will guide you toward the best path to achieve your objectives.

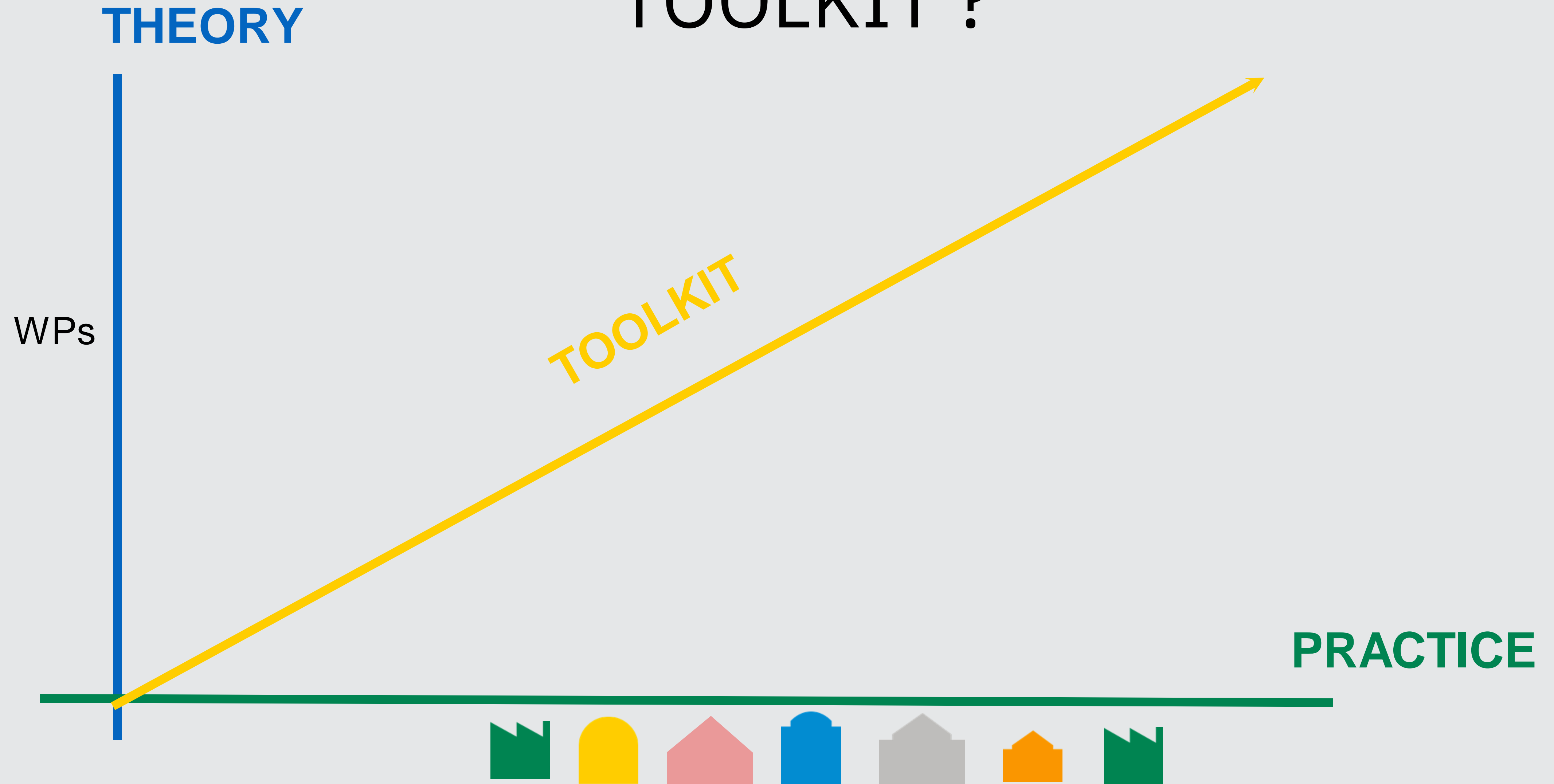


MAKING CONNECTION

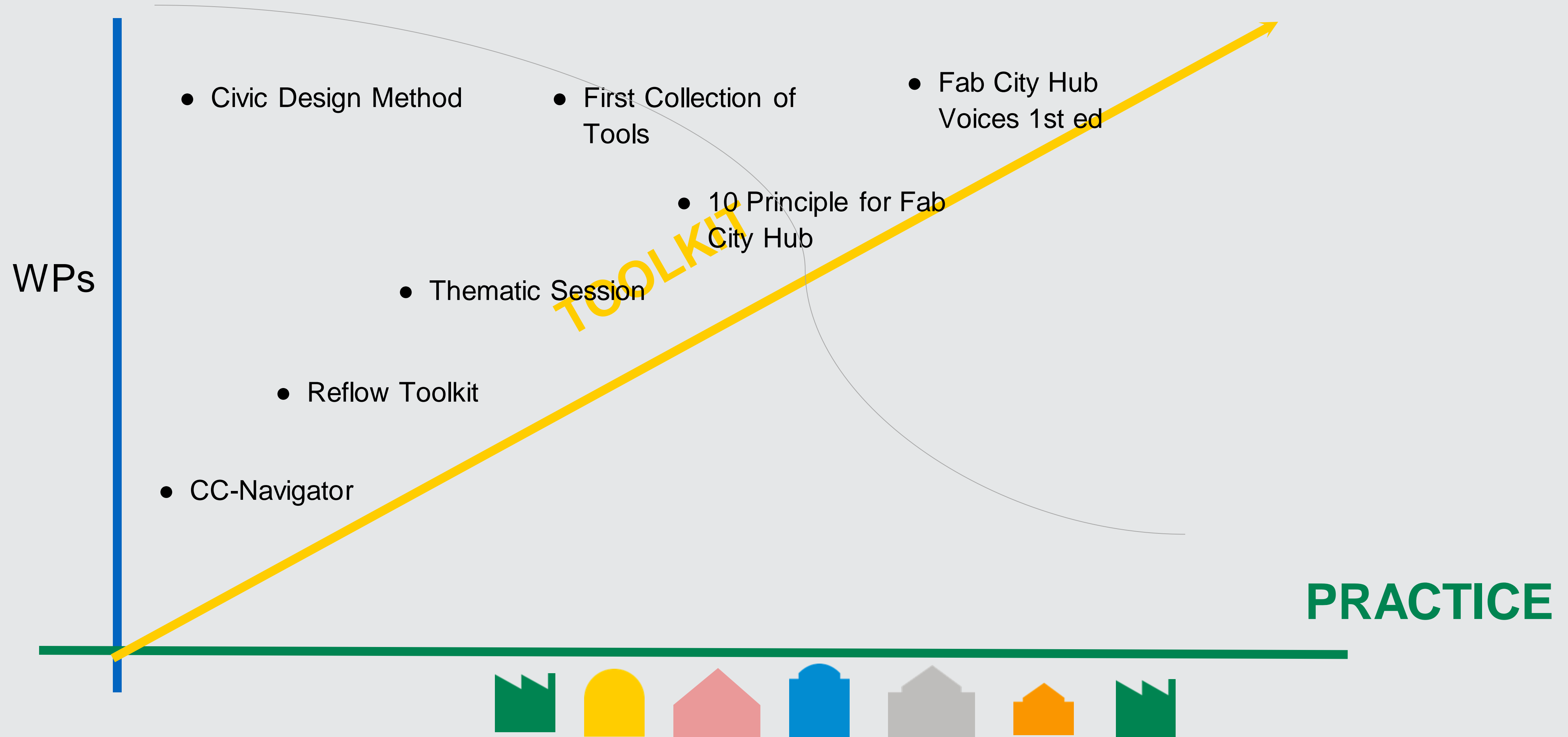


Between theory and practice, the framework and tools

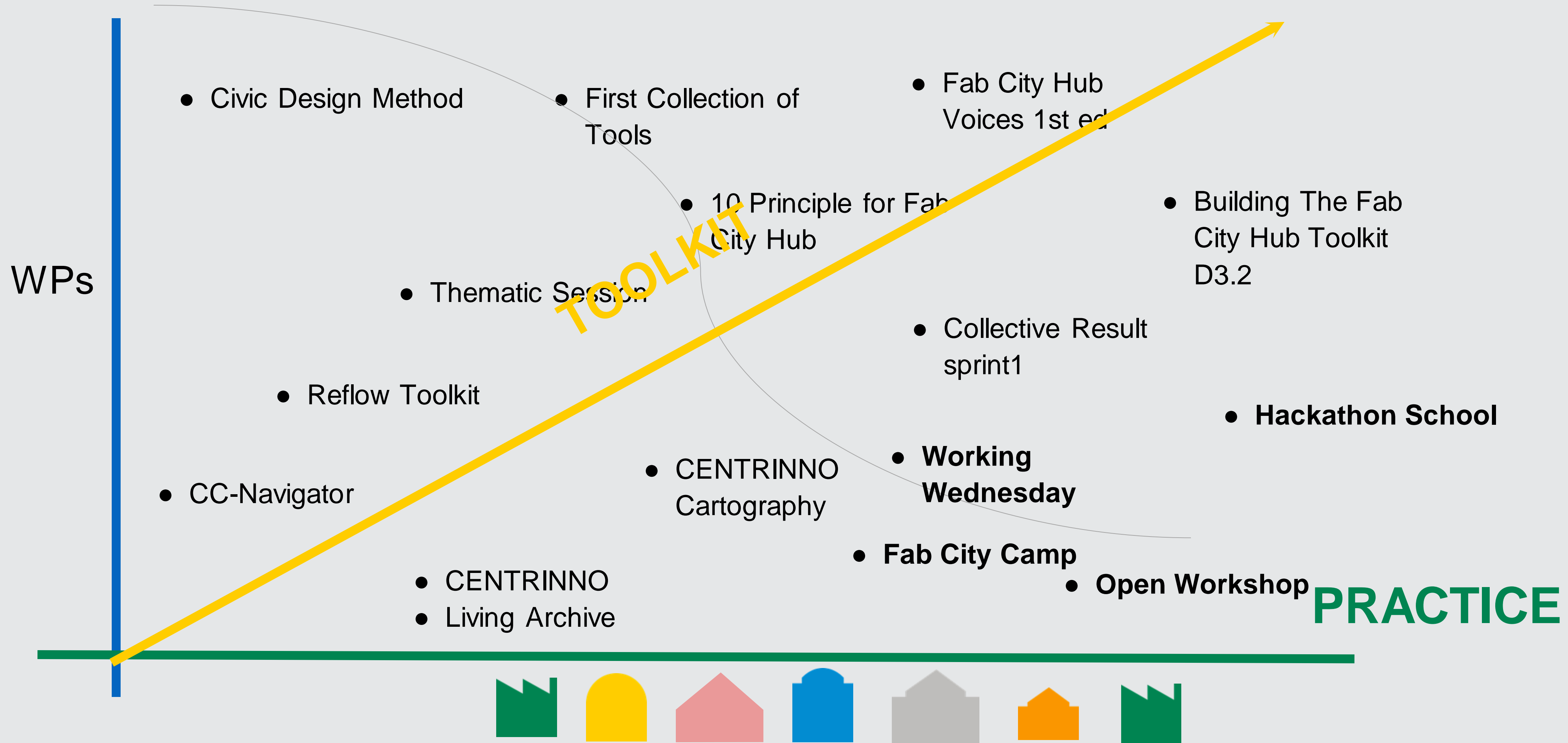
HOW IT HAS BEEN DEVELOPED the FCHs TOOLKIT ?



THEORY



THEORY



WHAT WILL YOU FIND IN the FCHs TOOLKIT ?

WHAT IS A FAB CITY ?

HOW TO SET UP A FAB
CITY HUB

WHICH TOOLS I SHOULD
USE ?

WHAT ARE THE STORIES I
CAN BE INSPIRED BY ?

10 Principles & FAQ

14 Steps toward local
models of Fab City
Hubs

+ 33 Tools to
facilitate my journey

9 Stories from the
ground

How to set up a FCH:
CRAFTING THE VISION

STEP: Build FCH as Learning Ecosystems



The screenshot shows a web browser displaying the 'Fab City Hub Toolkit' website. The page title is 'Fab City Hub Toolkit' and it features a search bar in the top right corner. The main content area is titled 'Build your FCH as a learning ecosystem' and includes a sub-header 'Build your FCH as a learning ecosystem' and a paragraph: 'Fab City Hubs as learning ecosystems where different actors, resources, interests and knowledges are exchanged'. Below this, another paragraph states: 'Fab City Hubs are places of confluences of different actors, resources, interests and knowledges. They are in-between spaces where academia, institutional actors and citizen can collaborates and exchange for building new forms of knowledge. **They allow to promote activities and partnership with** educational institutions - as for vocational schools - and to bridge the gap between the learning and the socioeconomic milieu of a city.'

The left sidebar contains a navigation menu with the following items:

- About this GitBook
- Glossary
- Why a Fab City Hub Toolkit >
- What is a Fab City Hub >
- How to set up a Fab City Hub >
- I want to set up a Fab City Hub from scratch >
- CRAFTING THE FCH VISION >
- Suggested steps >
- Map the Ecosystem
- Establish key partnerships
- Build your FCH as a learning ecosystem** >
- Key aspect of the CENTRINNO School >
- Curate the past toward the

The right sidebar contains a section titled 'ON THIS PAGE' with the following links:

- Why does it matter ?**
- What is the CENTRINNO...
- Key aspects of the CE...
- Tools/Stories
- Other Resources

At the bottom left of the page, there is a logo for 'Powered By GitBook'.



Build FCH as learning ECOSYSTEM

BUILD MY FCH AS A LEARNING ECOSYSTEM

ORGANIZE A SIGNIFICANT EVENT FOR MY...

HACKATHON SCHOOL

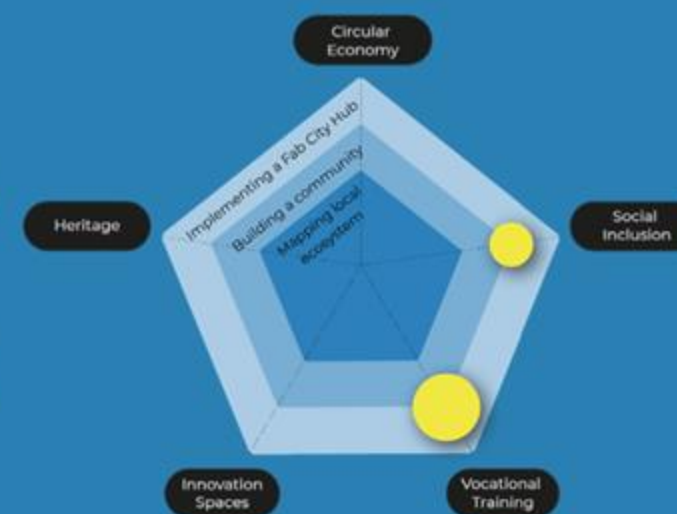
“get out of the classroom!”

WHAT IS HACKATHON SCHOOL?

A methodology and a framework that uses a design thinking and human-centered approach to solve complex problems within all aspects of life. First teachers and then students have been trained to be familiar with this methodology to answer real challenges proposed by local businesses.

BARCELONA ACHIEVEMENTS

- developed a learning ecosystem through multi stakeholder partnerships (schools, Fab Lab and Local Businesses)
- filled the gap between theory (the classroom) and practice (the job market) by facilitating communication and collaboration among multiple actors
- provided feasible solutions to real needs



A method to make education respond to real needs.

BUILD MY FCH AS A LEARNING ECOSYSTEM

MAP THE ECOSYSTEM

KUMU

“Share your needs and objectives we will provide you with the best learning experience for your future career”

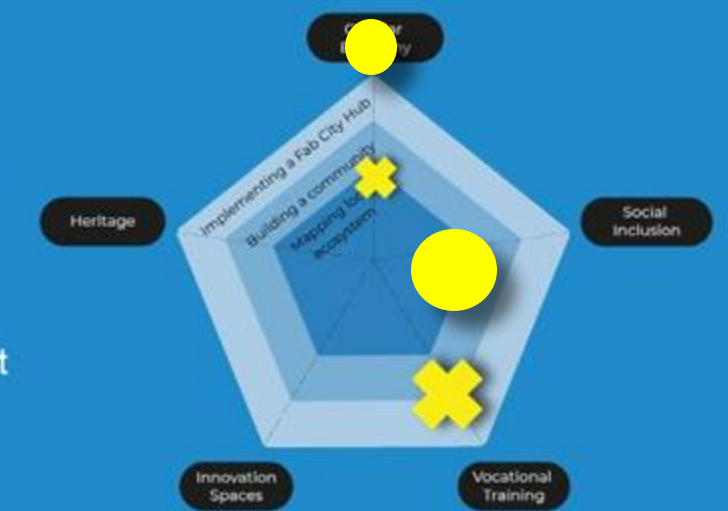


WHAT IS KUMU?

An open source online mapping platform used to organise data on social networks or other complex systems. FCHs can use KUMU to map urban communities and their resources as well as a functional and analytical tool to explore circular opportunities in locally productive communities.

PARIS ACHIEVEMENTS

- provided a general overview of available skills and resources to answer to different needs related to educational and training purposes
- it aims to become the digital tool to support the implementation of physical FCH as a distributed learning ecosystem

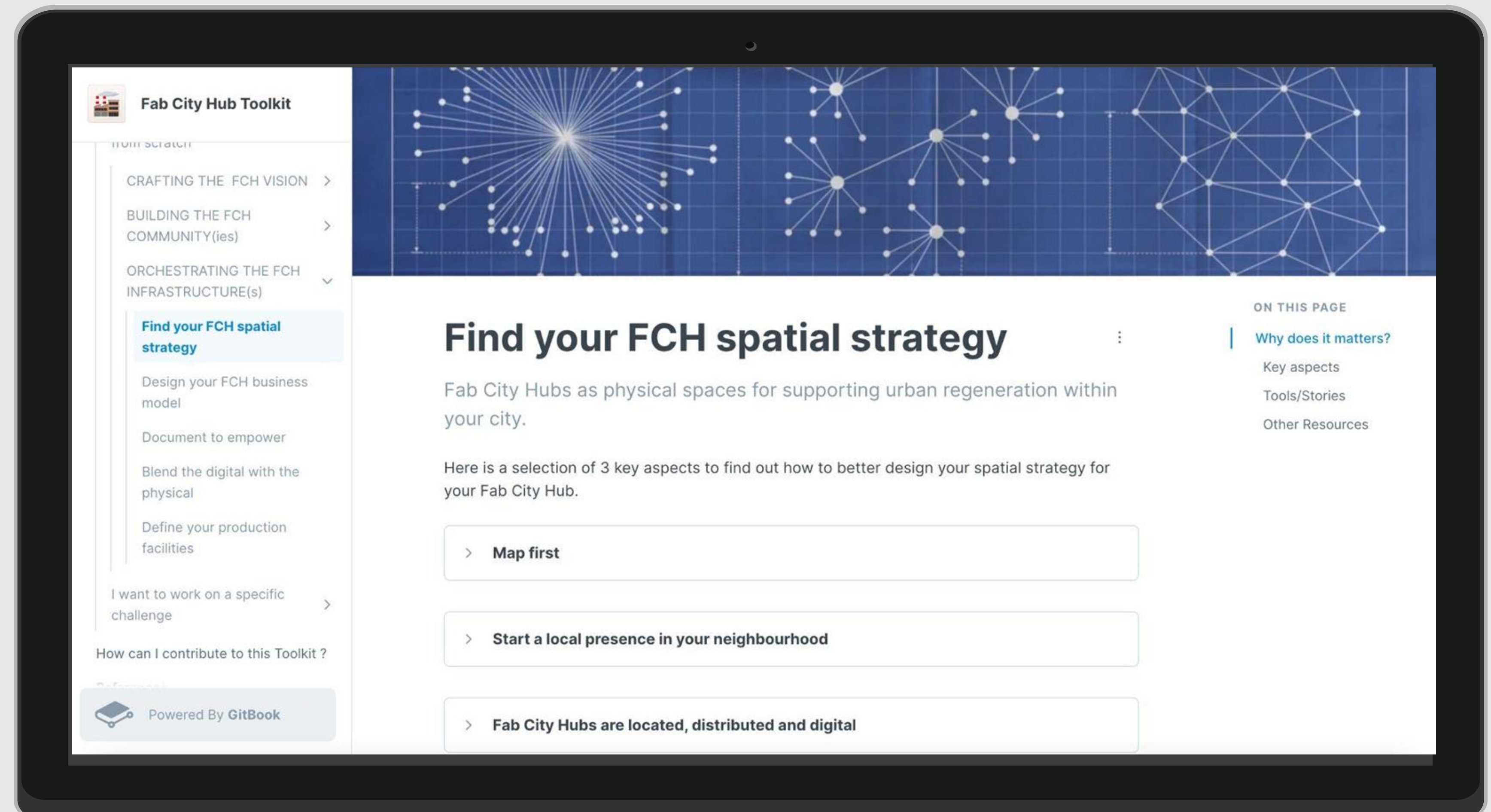


With Kumu, turn your hub into a learning ecosystem

How to set up a FCH:

**ORCHESTRATING
THE
INFRASTRUCTURE**

**STEP: Find your spatial
strategy**





Find your FCH spatial strategy

ESTABLISH KEY PARTNERS... BUILD AN GROW MY COMMUNITY

OPEN WORKSHOP

“find a Makerspace, bring food & drinks and make a good poster

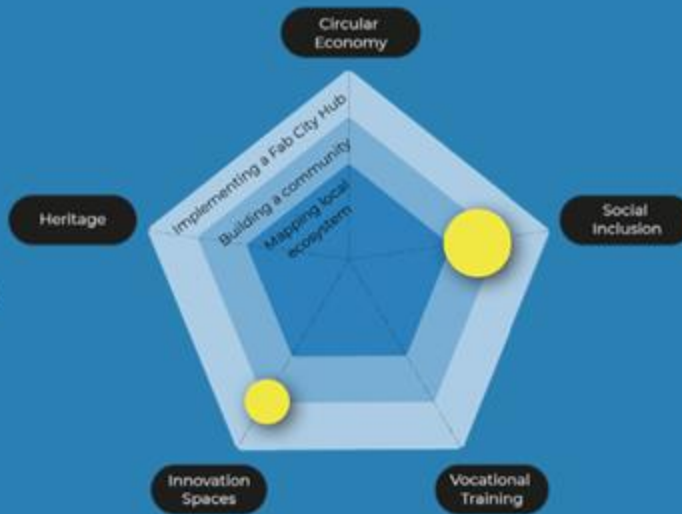
WHAT IS OPEN WORKSHOP?

A series of recurrent events organized in a different makerspace to better know and expand the local community of makers. The organizer provides the catering and promotes the events, while the hosting partner makes available his space and shares his works, ideas or needs with guests.

Events that connect makers and places

AMSTERDAM ACHIEVEMENTS

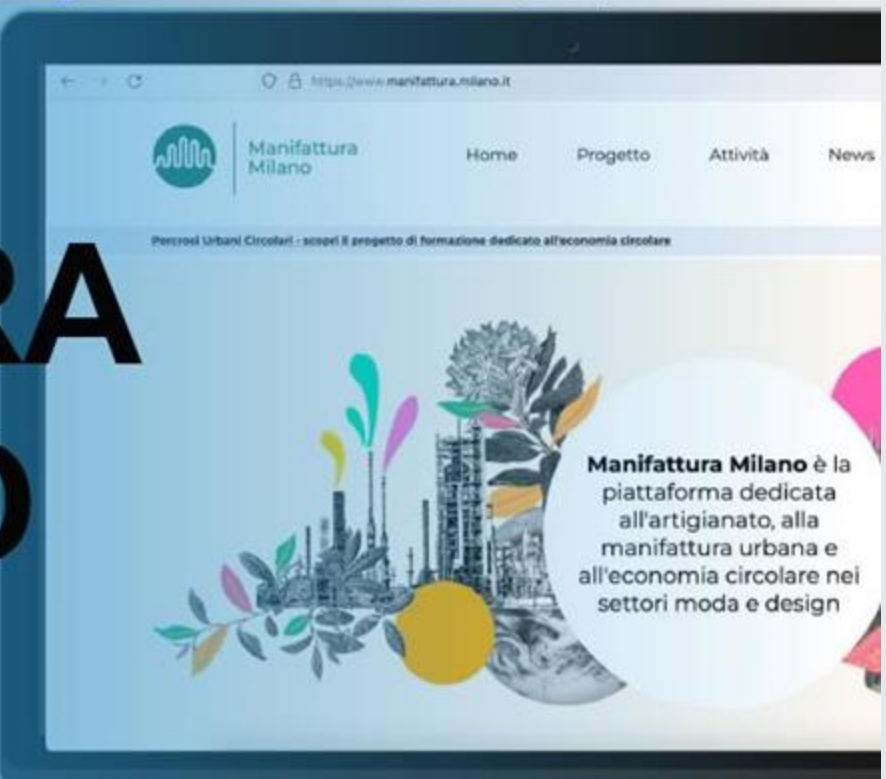
- enabled partnership among makers in Amsterdam Noord and fostered stronger connection and knowledge sharing
- assured a constant physical presence in the neighborhood of the local team, devoid of a physical hub
- a tool to understand pressing needs from makers



BLEND THE PHYSICAL WITH THE DIGIT... DOCUMENT TO EMPOWER

MANIFATTURA MILANO

“Listen to the needs of manufacturers



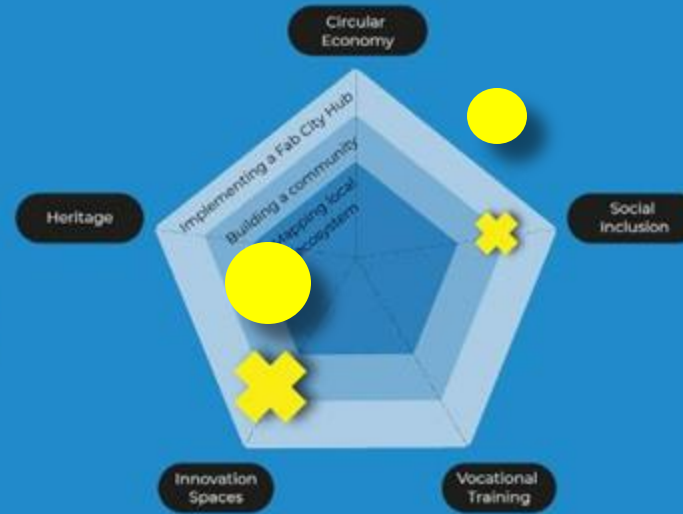
WHAT IS MANIFATTURA MILANO?

It is a digital platform dedicated to craftsmanship, urban manufacturing and the circular economy in the fashion and design sectors. Organisations can use it to 1) subscribe to the newsletter 2) publish their events and get promoted and 3) participates in working tables of the manufacturing community.

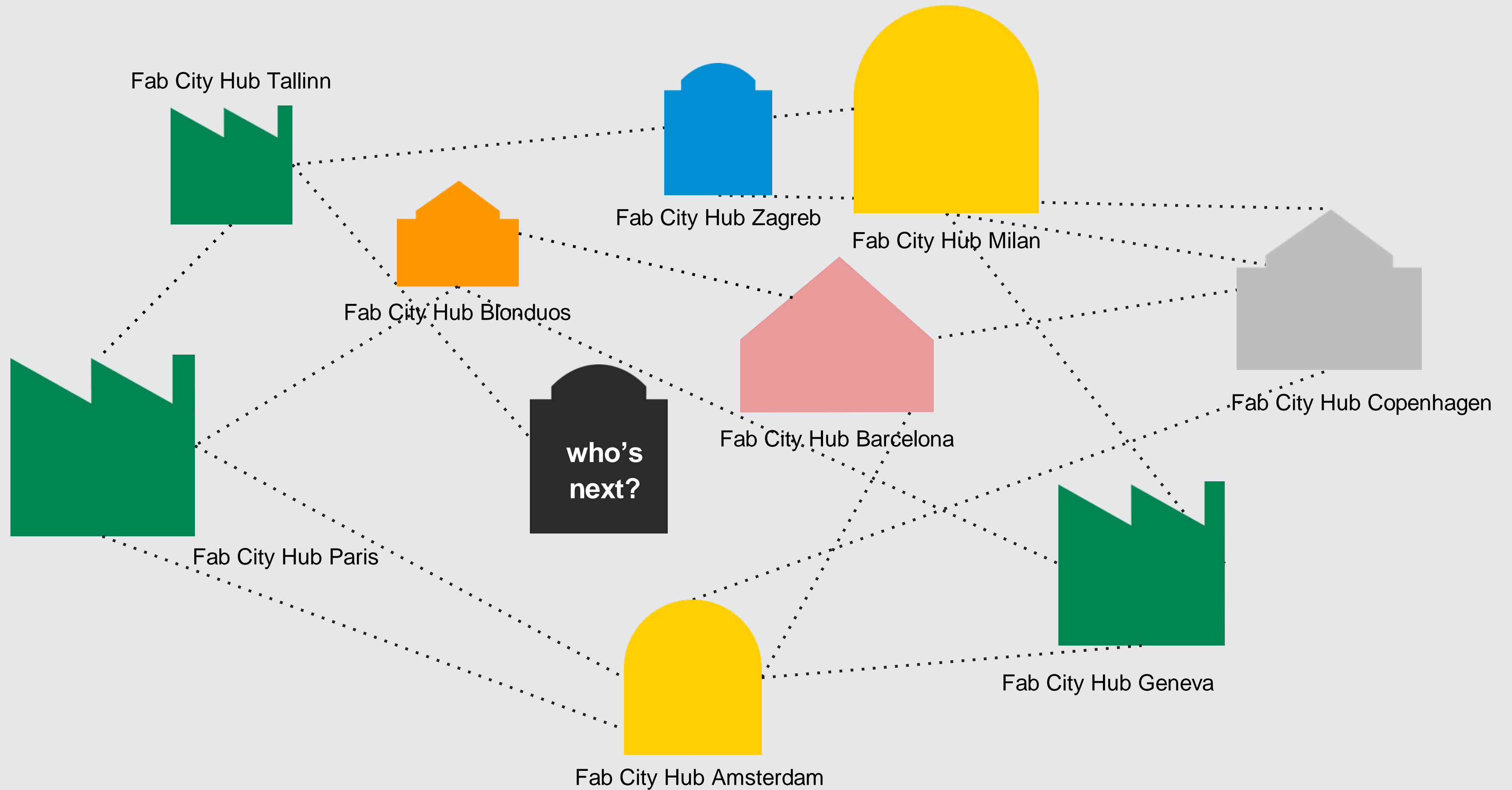
A digital space to co-design future physical spaces

MILAN ACHIEVEMENTS

- creation of a digital space that allows the prefiguration of a future physical space
- dissemination of the community's activities and increase of the pool of local businesses interested in circular process
- facilitation of resources, events and networking activities around circularity



BUILDING A NETWORK



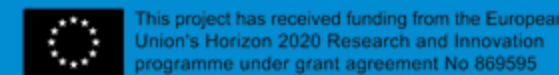
Why use the Fab City Hub Toolkit?

- **Launch** your FCH by following a **flexible roadmap of steps** (Vision , Community, Infrastructure)
- Improve some aspects of your FCH by using a selection of **tools for specific challenge**
- **Be inspired and connect with a community of FCH** engaged in the challenge of making city sustainable productive and inclusive

What can you do with it?

- **Adopt** the proposed approach and the tools and disseminate the work
- **Share** your tools and experience
- **Provide** us feedback and suggestions
- **Join** the dedicated Slack Channels in the fabcity.slack.com

VOLUMES .



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Carlotta Fontana Valenti

carlotta@volumesparis.org

Eve Guyard

eve@volumesparis.org

Francesco Congolani

francesco@volumesparis.org