

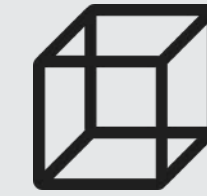


10 principles for Fab City Hubs



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

FAB CITY HUBS



DEFINE

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

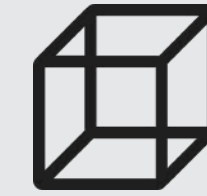
A quick reminder

Main goals of WP 3

FAB CITY HUBS

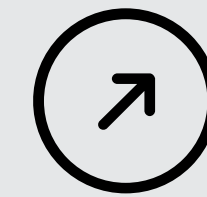
A quick reminder

Main goals of WP 3



DEFINE

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



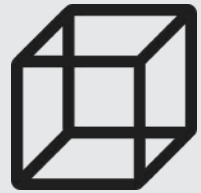
SUPPORT

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

FAB CITY HUBS

A quick reminder

Main goals of WP 3



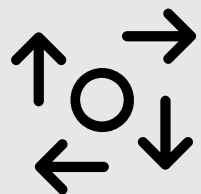
DEFINE

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



SUPPORT

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



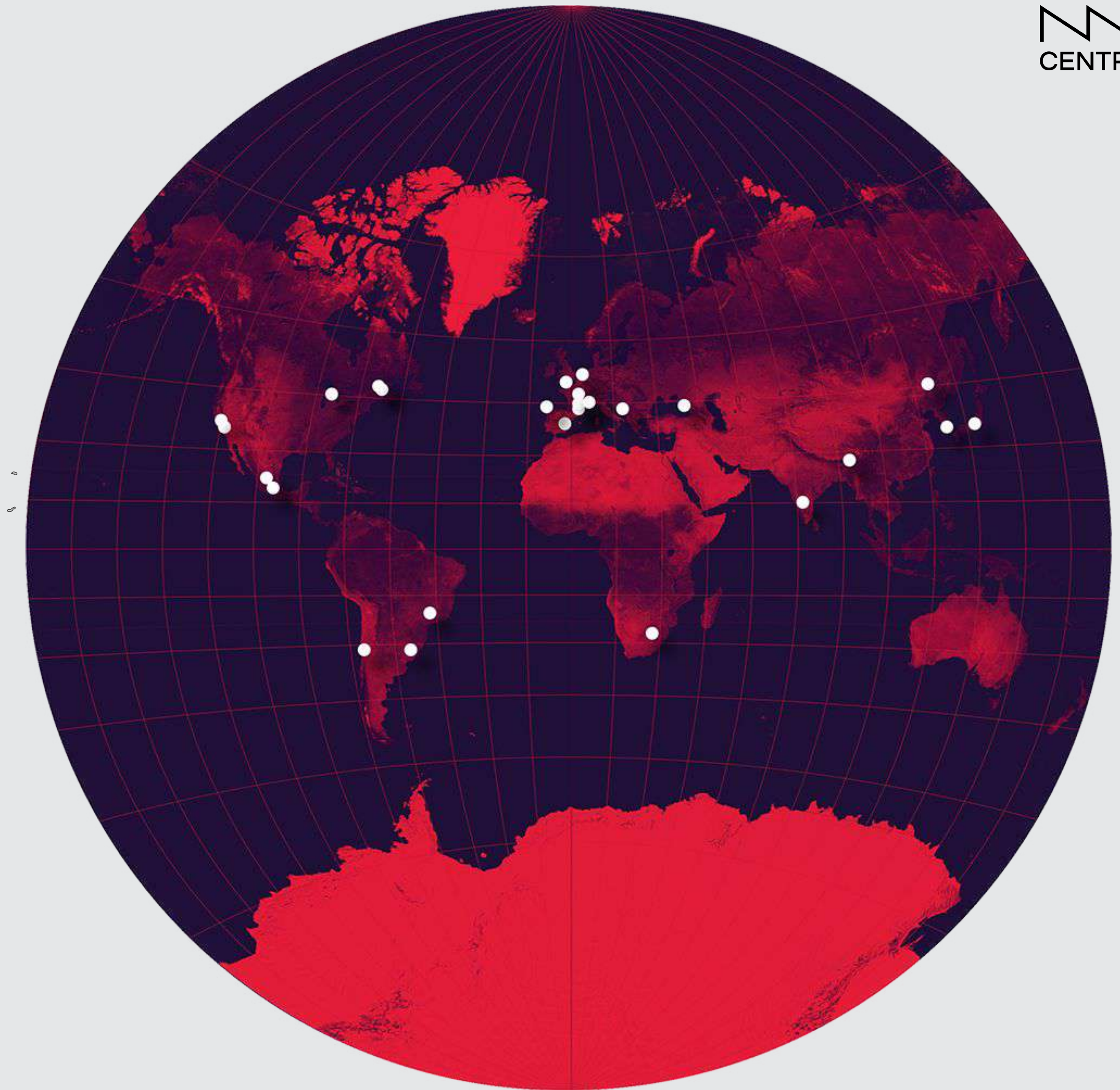
CONNECT

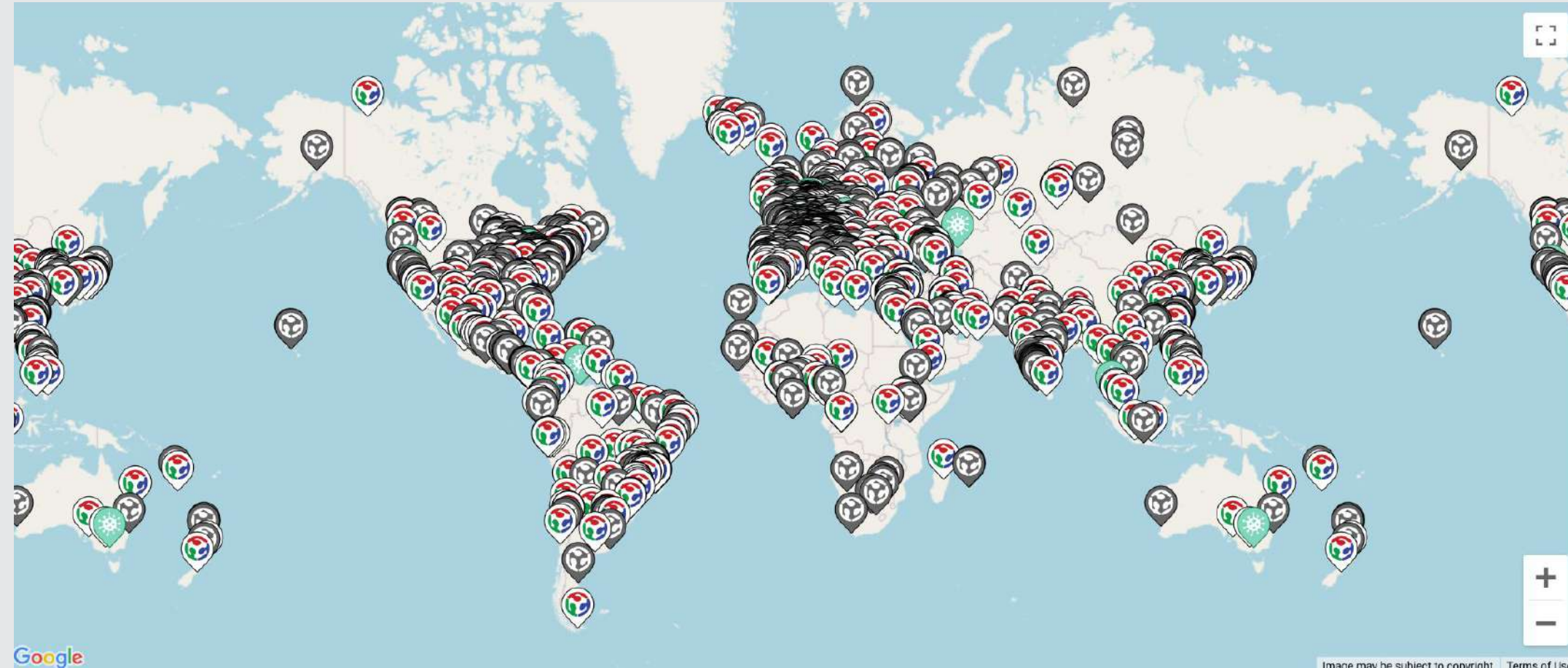
Make those Fab City Hubs operate together as **an international network of locally productive hubs** exchanging information, prototypes, members and experiences

FAB CITY GLOBAL INITIATIVE

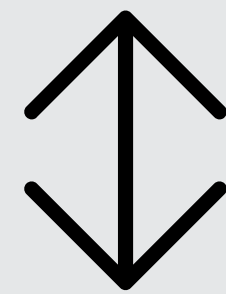
A global network of 38 cities

In this 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.





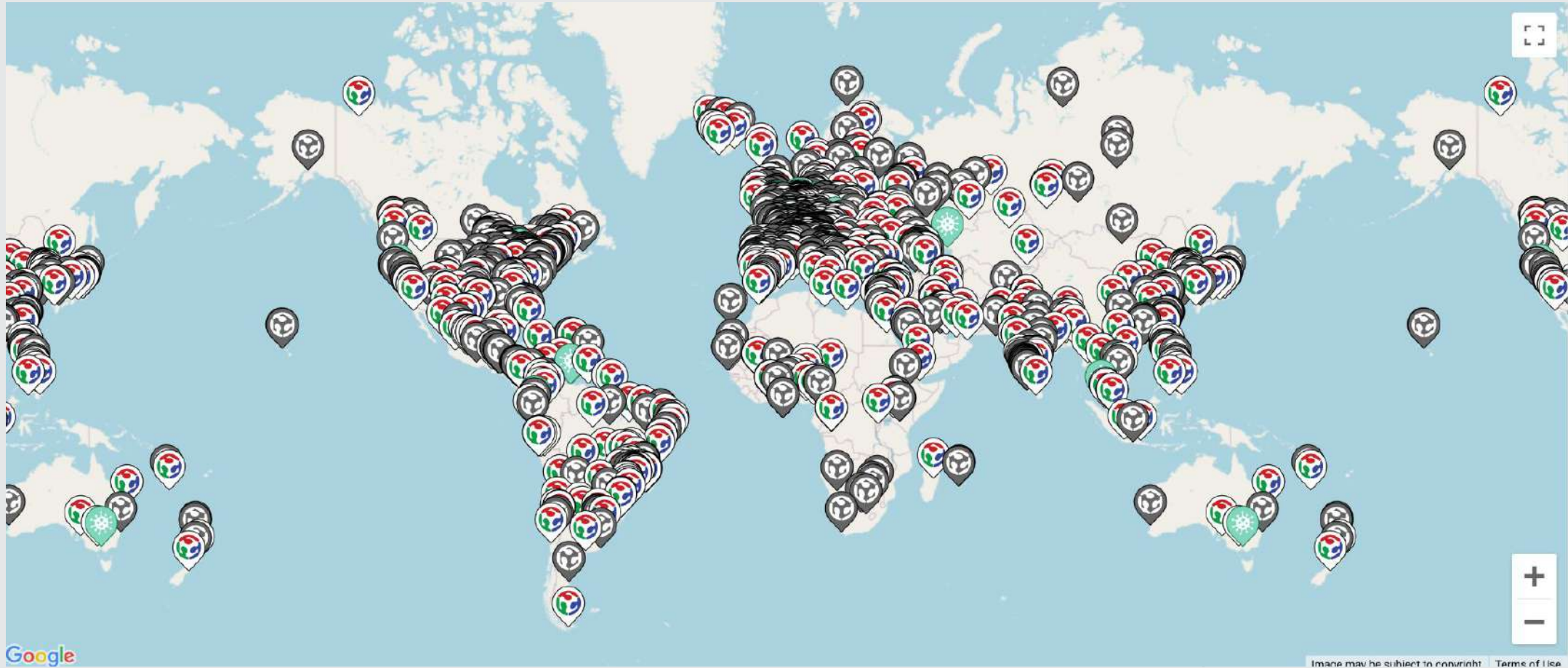
Fab Lab Network



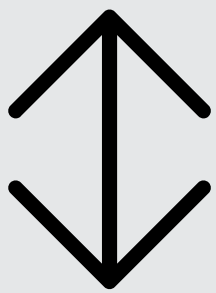
Fab Labs

Specialised and Technical.

Scale : Digital Fabrication Laboratory



Fab Lab Network

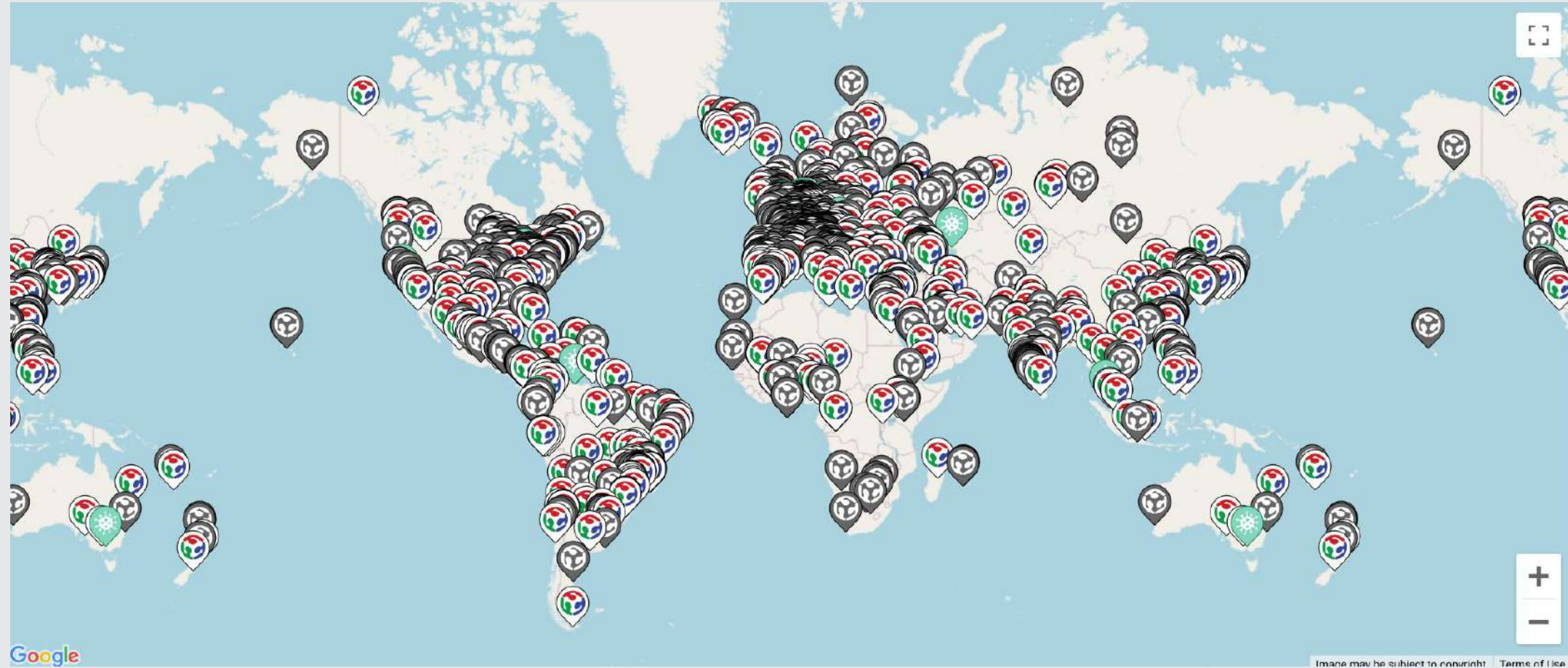


Fab Labs

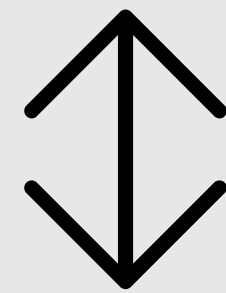
Specialised and Technical.
Scale : Digital Fabrication Laboratory



Fab City Network



Fab Lab Network

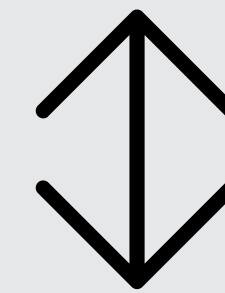


Fab Labs

Specialised and Technical.
Scale : Digital Fabrication Laboratory



Fab City Network



Fab City Hubs

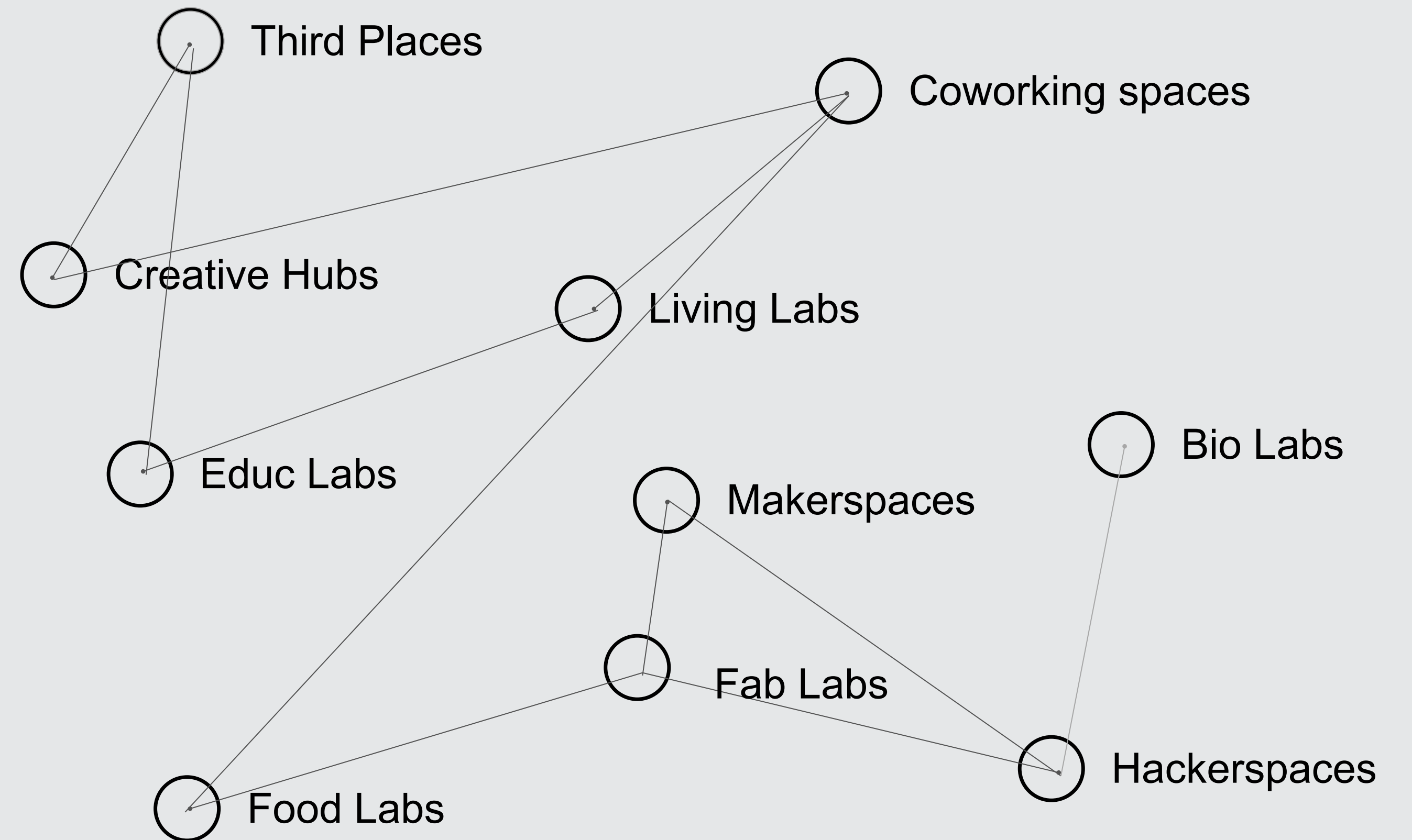
More permeable to citizens and other
communities in neighbourhoods.
Scale : City

8
8

 Fab Labs

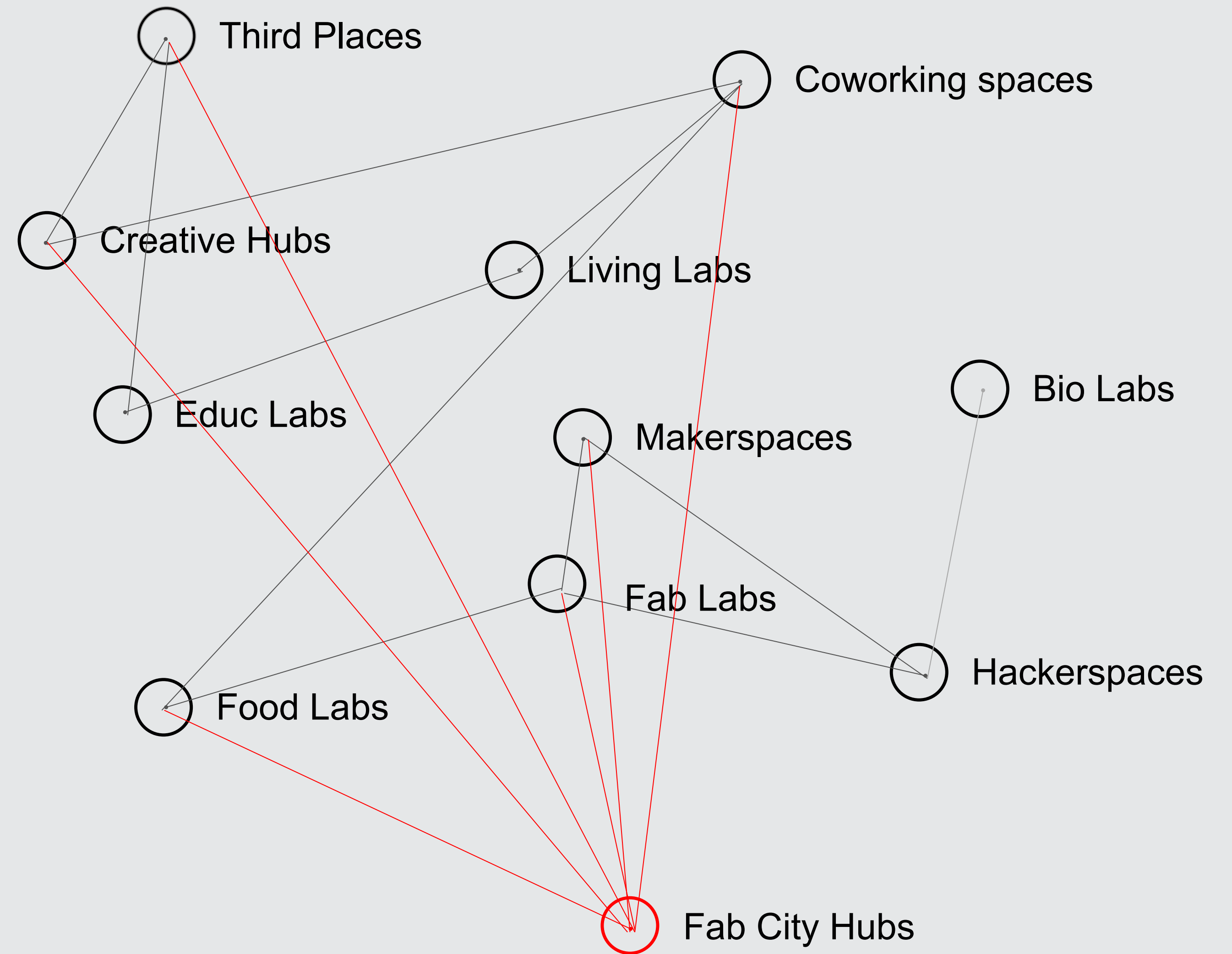
CREATIVE AND PRODUCTIVE HUBS

A constellation of hubs



CREATIVE AND PRODUCTIVE HUBS

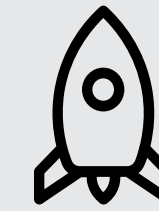
A constellation of hubs



WE THINK IT AS A PROCESS

The work conducted during the task will expand to an online journal by the end of T 3.1.

The online journal will gather pieces of D3.1 but also will be fed with further contents coming from **other partners who will be prototyping and co-designing the hubs with us.**



T 3.1

The task is the kick-off of a longer co-creation process to shape the vision of Fab City Hubs.



D 3.1 - Report

The report is the static part of the deliverable, a screenshot of the work done so far.



D 3.1 - Online Journal

The Online Journal is a live and dynamic output, evolving and growing through all the Centrinno project.

DELIVERABLE D 3.1

Creative and Productive Hubs Journal

Lead by ECHN

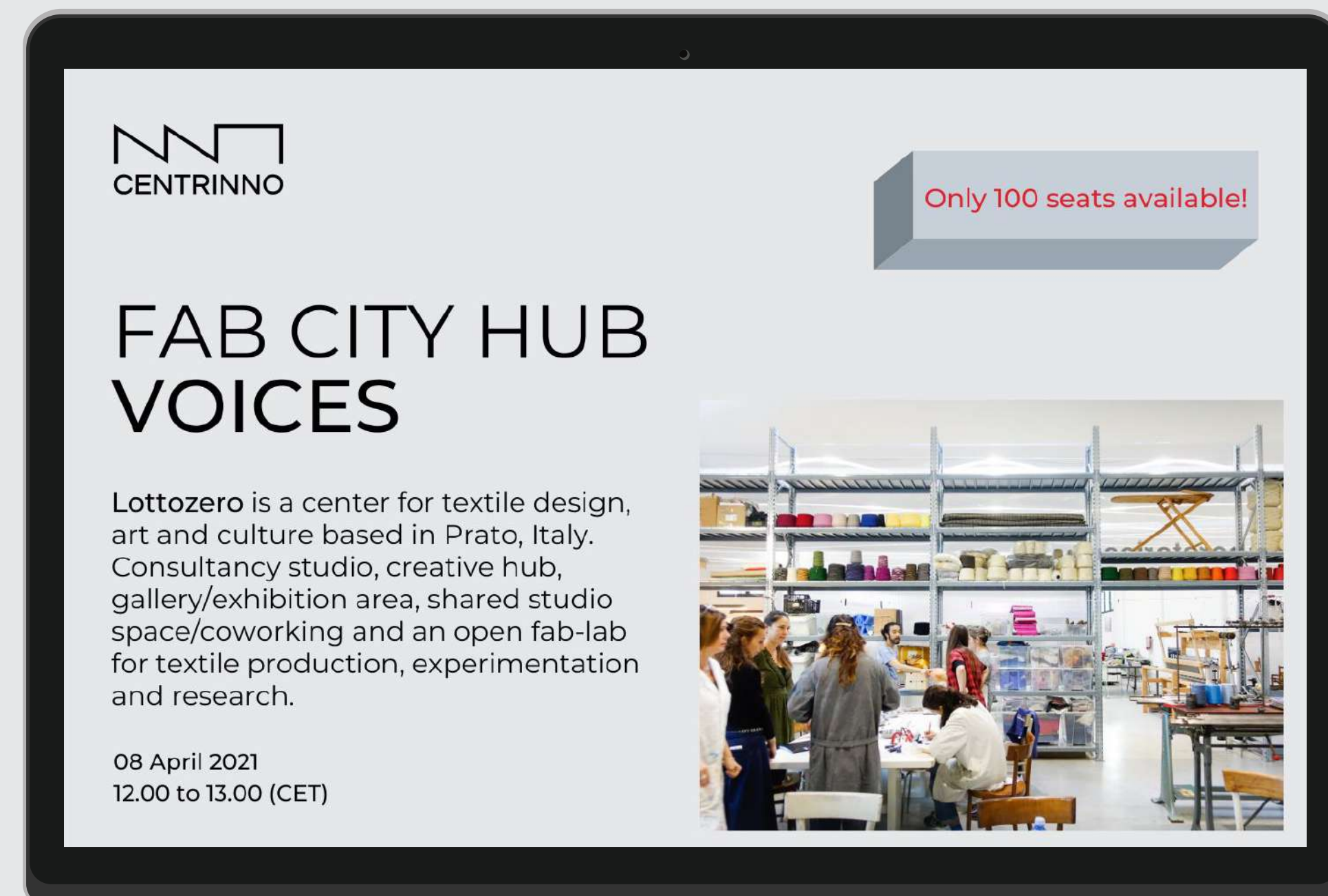
Mainly based on Task 3.1 lead by VOL
in collaboration with
ECHN, WAAG, IAAC and META.



ONLINE JOURNAL

An online event to launch the Online Journal (April 7th - 8th)

- Humanize Centrinno, humanize hubs
- One webinar of 1 hour per day
- Each webinar hosts a key person from one of the starred hubs
- The interviews will be key content for two posts on the online journal
- After M8, other partners can replicate the interview format (no need to host a webinar for them)



CURATED HUB PORTRAITS

Selecting featured examples.



28

Pre-selected hubs.



15

Remarkable portrayed hubs.



5

Starred portraits (which can then be featured as best examples in the Fab City Hub Toolkit.)



2

Hubs to be featured in the online journal.



D3.1 Creative and Productive Hubs Journal v1.0



Space 10
Copenhagen, Denmark (M)
Founded in 2007

SPACE10 is a research and design lab on a mission to create a better everyday life for people and the planet. It is supported by and entirely dedicated to IKEA but is also working as an independent lab.

space10.com



Bios Romantso
Athens, Greece (L)
Founded in 2013

Bios Romantso, is situated in the historical centre of Athens and functions both as a creative hub and as a cultural centre, organizing and hosting a variety of events on a daily basis.

romantso.gr



Volumes
Paris, France (L)
Founded in 2015

Volumes is a space and a place open to very diverse activities and communities. It's an organic ecosystem capable of adapting and transforming according to local opportunities and the desires of its members.

volumesparis.org



Fab Lab Barcelona

Barcelona (Large city) - Spain

Hands-on learning experience at Fab City Hub Barcelona.
Photo courtesy of Fab Lab Barcelona.



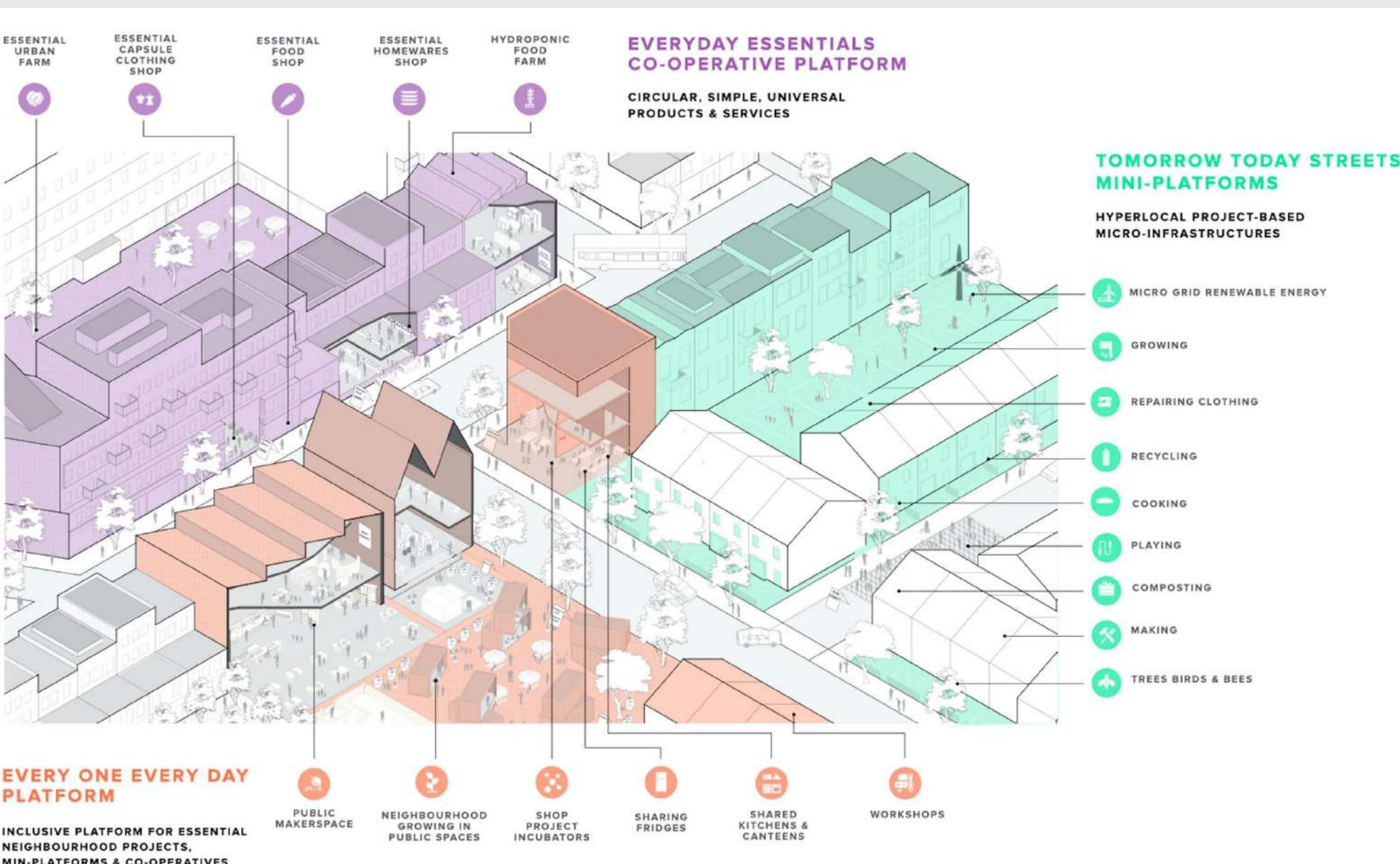
A Fab Lab that expands beyond the walls of the lab

- Concentric circles:
Lab > School > Neighbourhood > City > Planet
- Highlight: Innovation
- Highlight: Education

Every One, Every Day

London (Large city) - UK

Every One, Every Day platform :
a representation of a hub with a distributed approach.
Photo courtesy of Participatory City Foundation.



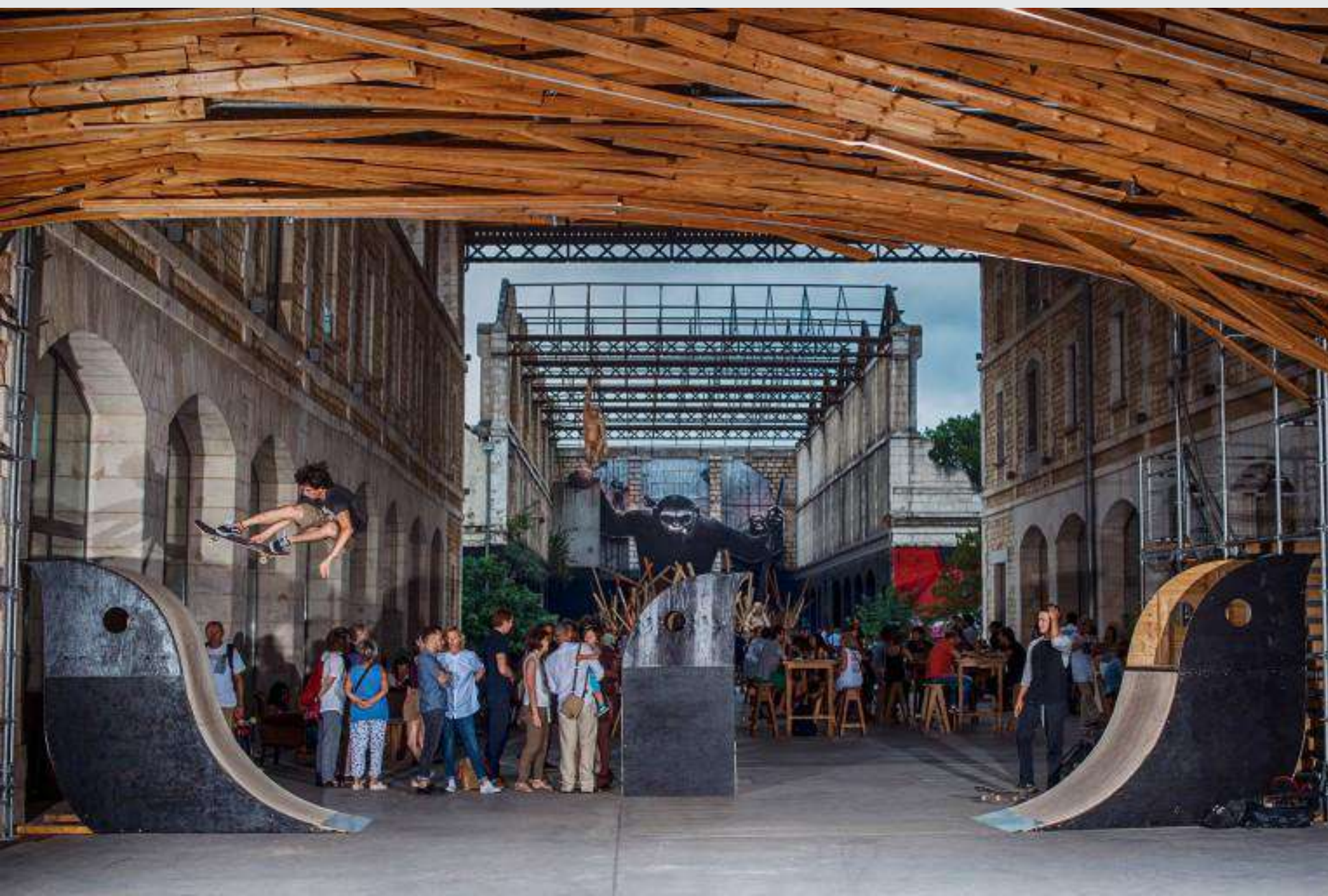
The hub as a distributed infrastructure in the city and for the citizens

- Distributed and inclusive
- Highlight: Inclusion
- Highlight: Education

Darwin

Bordeaux (Medium city) - France

Darwin hall dedicated to skate activities.
Photo courtesy of Darwin.



A large scale hub based on a collective and ecological governance

- Large scale heritage site
- Ecological architecture for renovation
- Ecological, complex governance
- Highlight: Circularity
- Highlight: Heritage

Lottozero

Prato (Small city) - Italy

Textile laboratories at Lottozero.
Photo courtesy of Lottozero.



A creative hub but also a consultancy center for revamping traditional skills

- Diversified business model
- Access to specialised skills of the territory
- Highlight: Heritage
- Highlight: Innovation

Tzoumakers

Kalentzi (Extra-small city) - Greece

The facilities of Tzoumakers.
Photo courtesy of Nicolas Garnier.

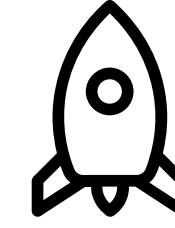


Super small, super specific, super connected.

- Hub activation in remote locations
- Design global, manufacture local
- Highlight: Circularity
- Highlight: Inclusion

FAB CITY HUB PRINCIPLES

LESSON LEARNED
FROM THE HUB PORTRAITS

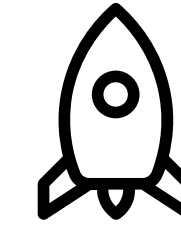
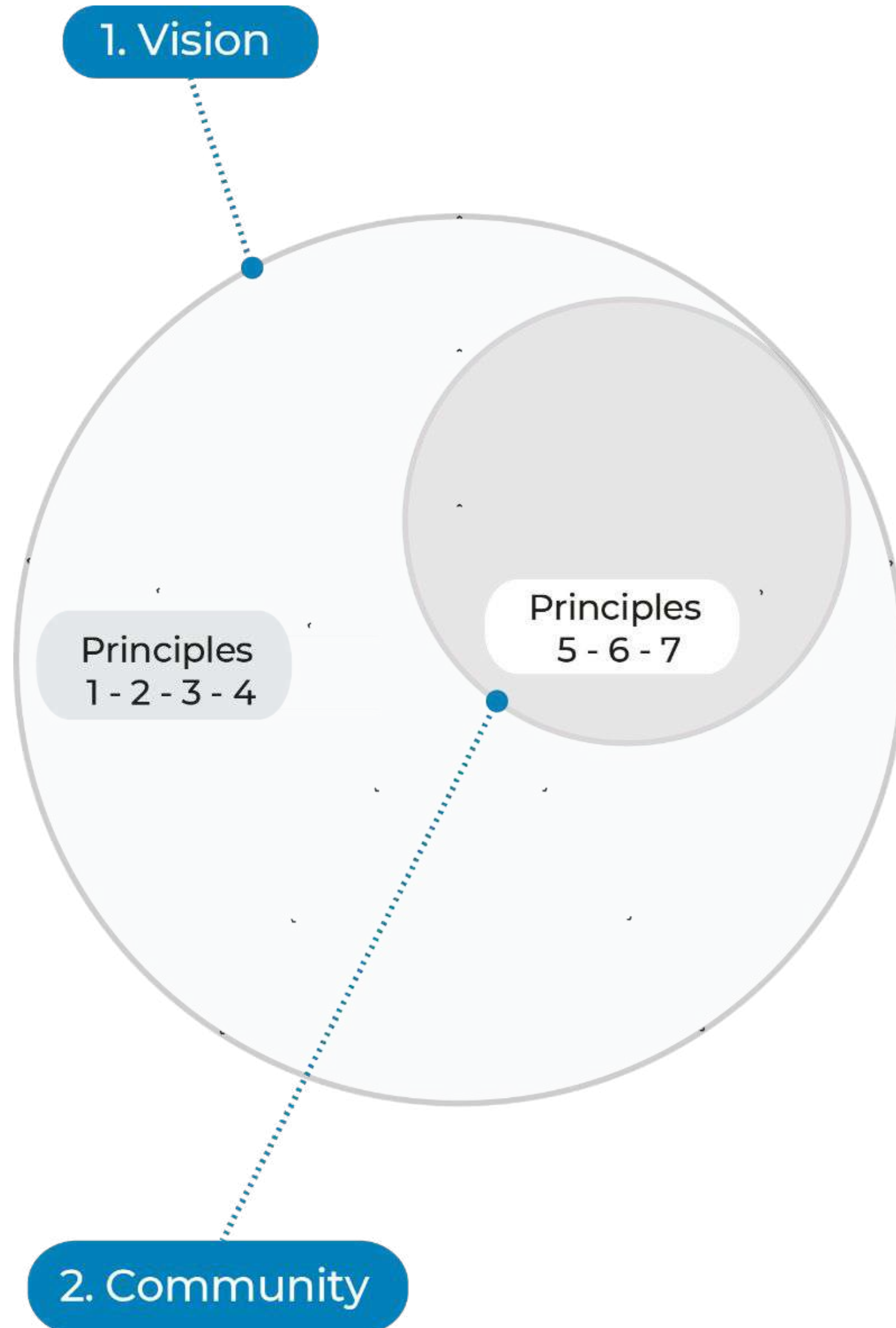


FAB CITY HUB VISION

- What is a FCH?
- How should one think about FCH?
- How should one visualise the future of those hubs in relation to other actors, makers, institutions and private companies?

1. Vision

Principles
1 - 2 - 3 - 4



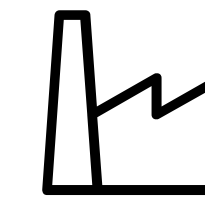
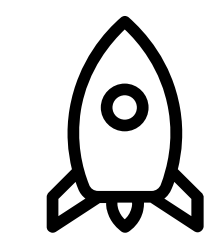
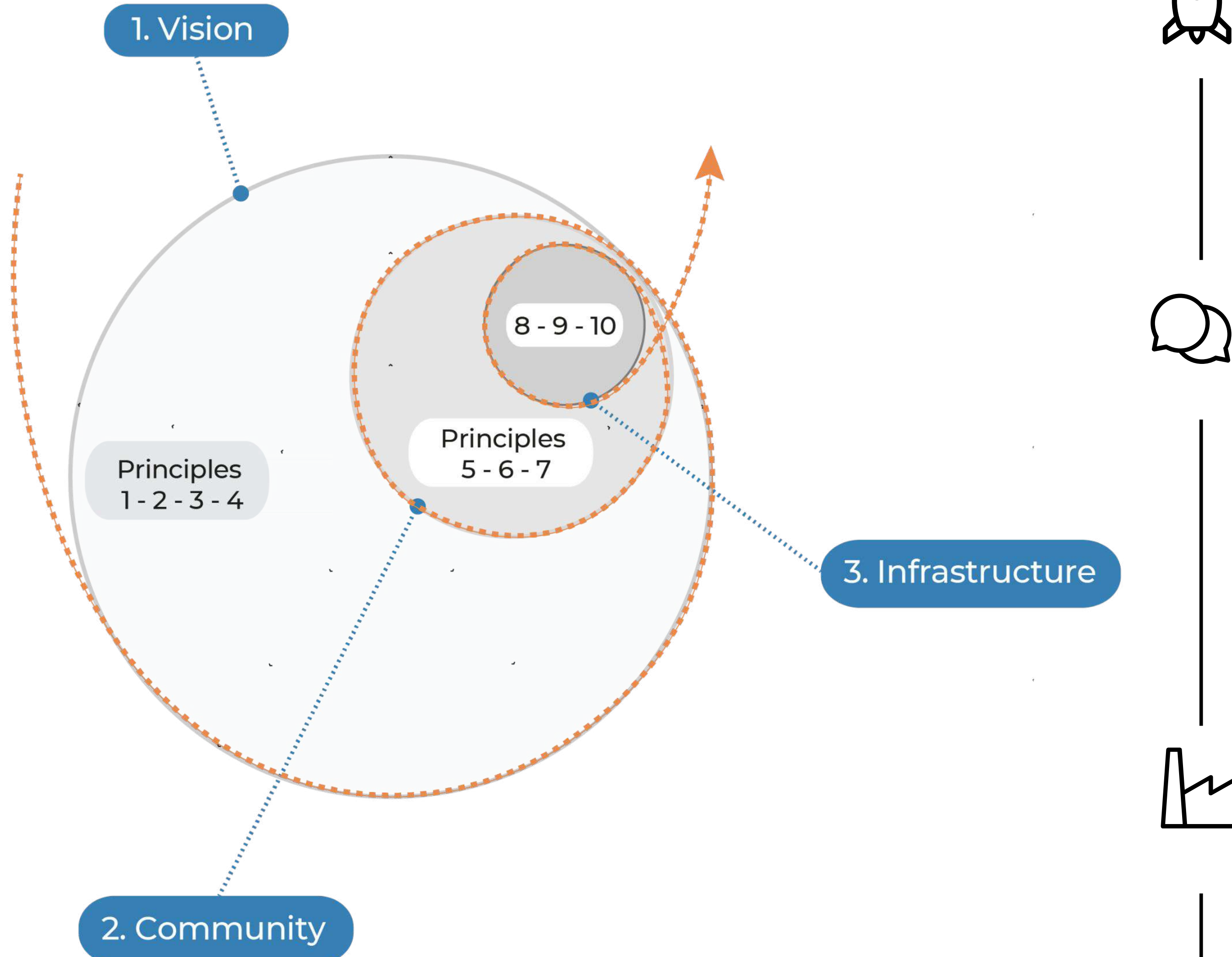
FAB CITY HUB VISION

- What is a FCH?
- How should one think about FCH?
- How should one visualise the future of those hubs in relation to other actors, makers, institutions and private companies?



FAB CITY HUB AND COMMUNITY

- How should FCHs relate to their communities?
- Is a physical space needed to start the project?
- How can somebody make the project inclusive?
- How should the hub's operating team collaborate with those communities?



FAB CITY HUB VISION

- What is a FCH?
- How should one think about FCH?
- How should one visualise the future of those hubs in relation to other actors, makers, institutions and private companies?

FAB CITY HUB AND COMMUNITY

- How should FCHs relate to their communities?
- Is a physical space needed to start the project?
- How can somebody make the project inclusive?
- How should the hub's operating team collaborate with those communities?

FAB CITY HUB AND INFRASTRUCTURE

- what about physical space and fabrication facilities?
- How should those be managed or designed?
- Are productive facilities meant to replace traditional production or rather used to reskill local communities?

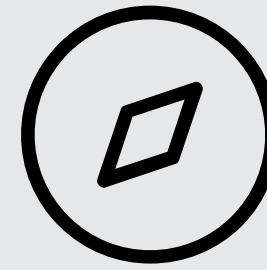
Fab City Hub Vision

This group of principles aims to create a mindset from which the hub operators should look at their project and relative challenges.



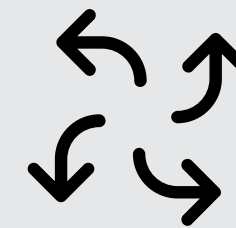
Principle 1

FCHs as ecosystem activators



Principle 2

FCHs as physical devices for accessing distributed ecosystems



Principle 3

FCHs as complex organisms enabling resiliency



Principle 4

FCHs as extensions of traditional institutions

1. FAB CITY HUBS AS ECOSYSTEM ACTIVATORS

An ecosystem can be defined as a **community of living organisms** interacting with its **environment** as a system.

FCHs need to be thought of and structured as **platforms that catalyse interactions and facilitate connections** and collaborations among the different actors that are active in urban environments.

IMAGE : BETAPITCH by BETAHAUS



2. FAB CITY HUBS AS PHYSICAL DEVICES FOR ACCESSING DISTRIBUTED ECOSYSTEMS

Opposite to traditional innovation hubs or incubators, FCHs are not concentrating in a unique physical space all the stakeholder, projects and initiative, polarising in this way certain areas of the city and depriving others.

Instead, **they are a physical device to access the richness, variety and geographical distribution of communities**, actors and projects.



3. FAB CITY HUBS AS COMPLEX ORGANISMS ENABLING RESILIENCY

While the observer could confuse this with a lack of clear design intentions, those characteristics are instead voluntarily embraced and define even their core values.

By behaving as complex organisms, FCHs are able to stay **open to the emergence of new needs, new projects, new spatial reorganisation**, and in the end, **perform as resilient structures** to fast changing and hazardous environments.



4. FAB CITY HUBS AS EXTENSIONS OF TRADITIONAL INSTITUTIONS

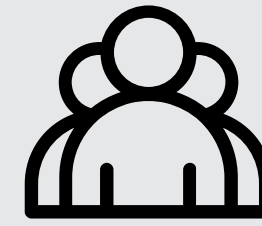
Hubs have been previously described as flexible, hybrid and fluid structures in respect to their programs, their spatial organisation and the set of actors involved.

These features confer to hubs **a potential to act as in-between areas, functioning as playgrounds for experimentation** and prototyping of unusual *assemblage* of actors and functions.



Fab City Hub and Community

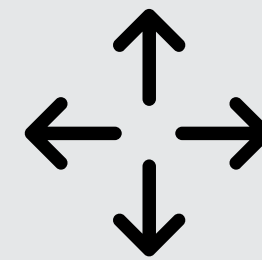
How should FCHs relate to their communities?
Is a physical space needed to start the project?
How can somebody make the project inclusive?
How should the hub's operating team collaborate with those communities?



Principle 5

Where to start?

Community comes first, space after



Principle 6

How to be open?

Give voice to citizens



Principle 7

How to manage communities?

Focus on facilitating and empowering communities.

5. COMMUNITY COMES FIRST, SPACE AFTER

Event curation and programming are an effective tool to start creating a community.

Curated events **create the conditions for a debate** about the needs for a space, instead of designing the space beforehand.

IMAGE : DREAMHAMAR by ECOSISTEMA URBANO



6. GIVE VOICE TO CITIZENS

Being FCHs buffer zones (see Principle Four) - often in dense and highly optimised urban environments - they can become powerful **spaces for expression and debate for citizens.**

By embracing this inclusive approach and by giving space to citizens and local communities, FCHs configure as sounding boards and launching platforms for bottom-up initiatives at the city level.

IMAGE : CITIZEN LAB AT MEDIALAB PRADO



7. FOCUS ON FACILITATING AND EMPOWERING COMMUNITIES

Instead of doing and controlling everything, the team's role should be that one of a facilitator who keeps a global vision on the project.

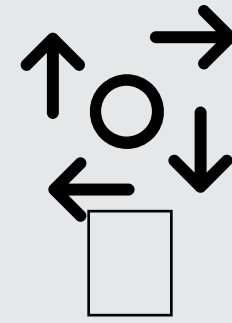
In this regard, FCHs' teams are **curators of communities** inhabiting those places, orchestrating distributed activities.

IMAGE : FAB CITY CAMPUS by FAB CITY GRAND PARIS



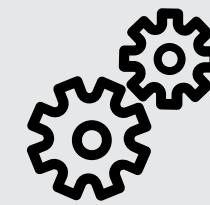
Fab City Hub Infrastructure

This group focuses more on tangible assets of the Fab City Hubs.



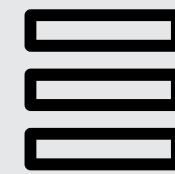
Principle 8

Adopt an incremental approach, avoid overdesign



Principle 9

FCHs are not replacing factories



Principle 10

FCHs are multi-layered spaces, both physical and digital

8. ADOPT AN INCREMENTAL APPROACH, AVOID OVERDESIGN

Instead of following a linear waterfall approach, where the space is fully planned and designed in advance, **an incremental approach can leave space for real and situated needs to emerge from the community.**

IMAGE : DARWIN, BORDEAUX.



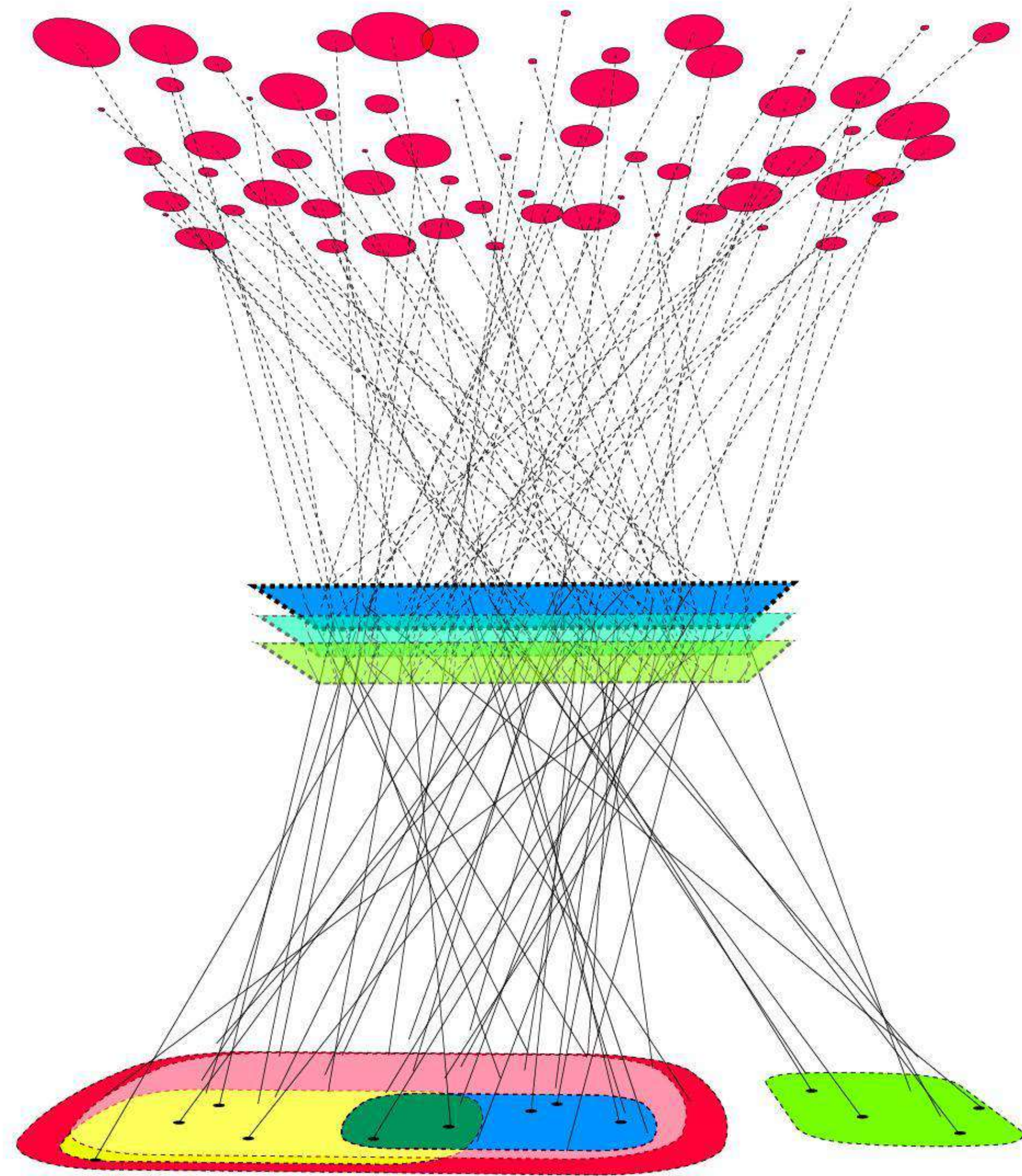
9.

FAB CITY HUBS ARE NOT REPLACING FACTORIES

FCHs are intended to be more of a cultural space for creative and productive activities, in which production facilities do not have the mere function of manufacturing products for consumption; those facilities are instead means for **innovation, reskilling, citizen empowerment, social connection and conviviality.**

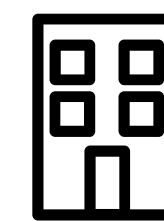
IMAGES : YUAN YUAN STUDIO





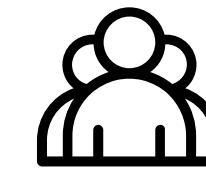
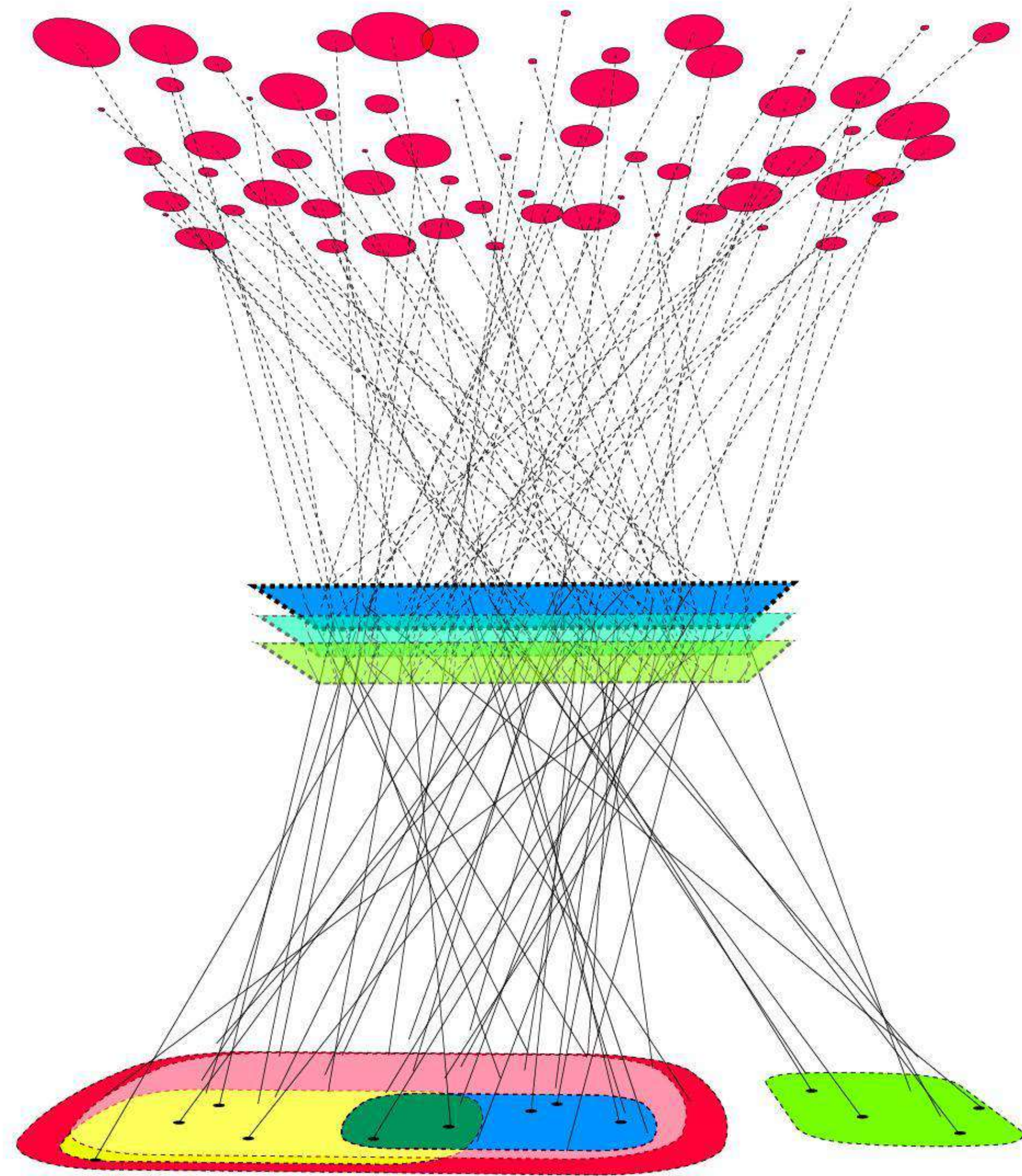
10.

**FAB CITY HUBS ARE
MULTI-LAYERED
SPACES, BOTH
PHYSICAL AND DIGITAL**



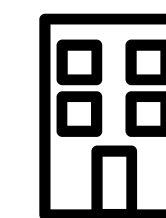
SPACES AND FACILITIES

- Meeting rooms
- Digital Fabrication machines
- Event spaces



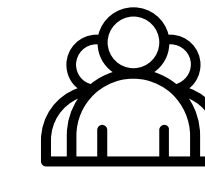
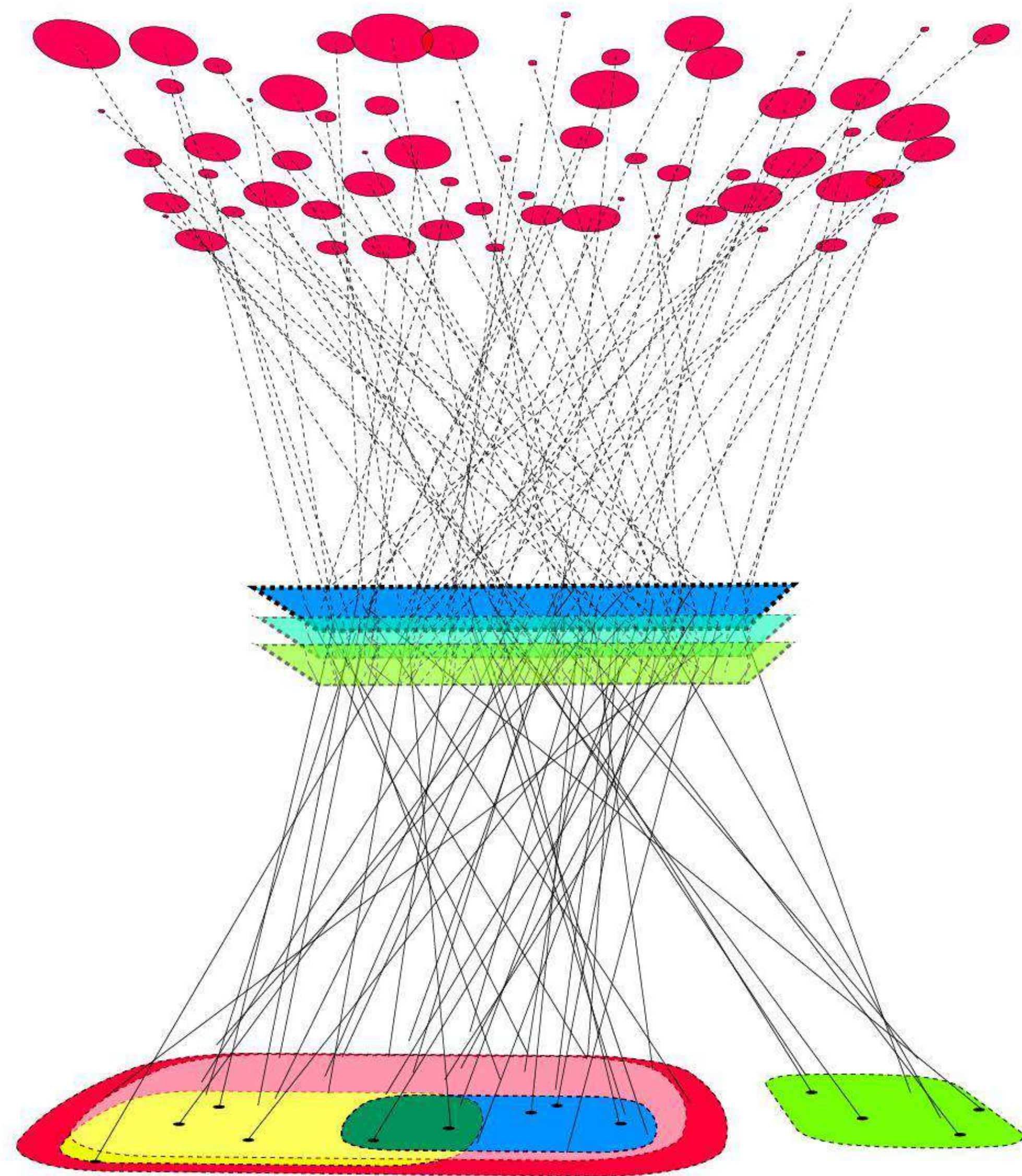
COMMUNITIES

- Citizens
- Entrepreneurs
- Makers
- Big companies
- Institutions



SPACES AND FACILITIES

- Meeting rooms
- Digital Fabrication machines
- Event spaces



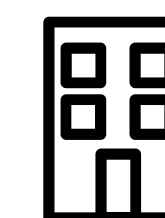
COMMUNITIES

- Citizens
- Entrepreneurs
- Makers
- Big companies
- Institutions



DIGITAL LAYERS

- Internal communication tools
- External communication tools
- Space management tools



SPACES AND FACILITIES

- Meeting rooms
- Digital Fabrication machines
- Event spaces

WRAP UP

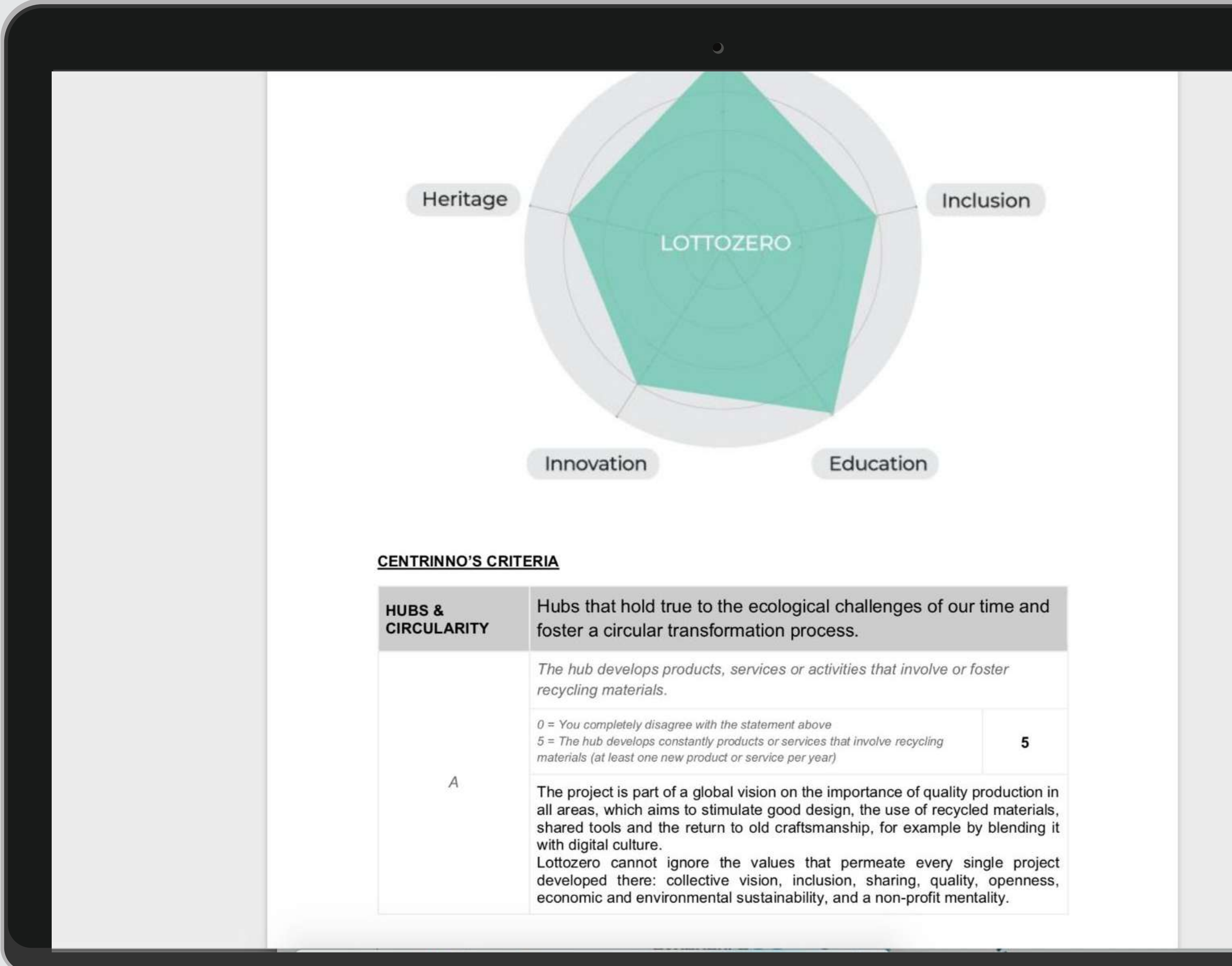
NEXT STEPS
AND
UPDATES FROM
FAB CITY HUB PARIS

FAB CITY HUBS FRAMEWORK

A tool to scan, monitor and evaluate
the Fab City Hubs in the long term.

A tool that can connect with other Work
Packages and feed the CENTRINNO
blueprint.

It is available for pilots as a framework to
extract insights from inspiring hubs not yet
covered in our previous task.



Fab City Hub Paris first prototype



THANK YOU!

THIS PRESENTATION IS SHARED.
FEEL FREE TO REACH OUT FOR
QUESTIONS

Carlotta Fontana Valenti

carlotta@volumesparis.org

Francesco Cingolani

francesco@volumesparis.org