



# REGENERATION THROUGH CIRCULAR NETWORKS

Workshop, 14th of May 2024





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# Workshop Agenda

-  Introduction of CENTRINNO
-  Group Activity 1 - Mapping your circular network
-  Group Activity 2 - Building circular connections
-  Tools to take home

# CENTRINNO

Can we transform industrial heritage into circular & productive communities?

CENTRINNO is a 4-year long applied research project which tested regeneration strategies for Europe's industrial historic sites under transformation.



# PILOTS



Nine former industrial areas under transformation worked on strengthening local circular production communities of makers, creatives and social entrepreneurs





## Blönduós Textile Center



### Converting an old women's college into Iceland's Textile Center

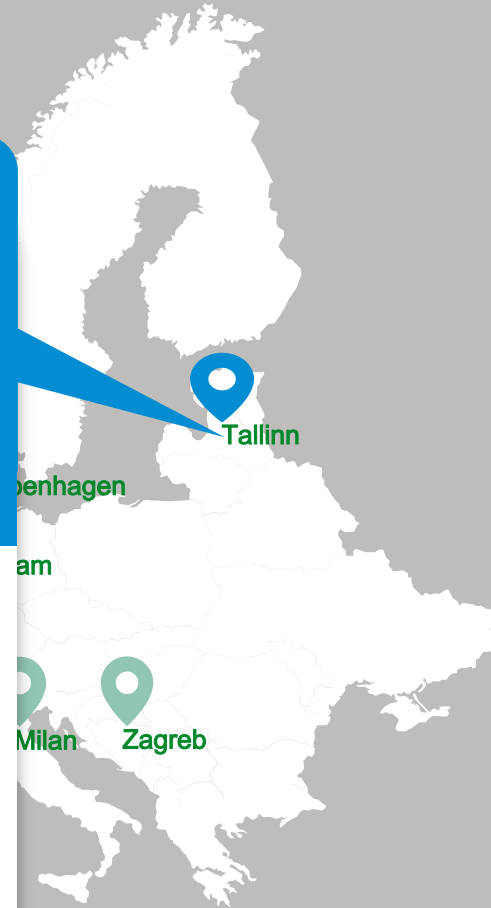
- *Exploration of alternative fibers for textile production*
- *Combining weaving and knitting heritage with new technologies*
- *Mapping of wool value chains and circular economy opportunities*

Tallinn  
Kopli 93

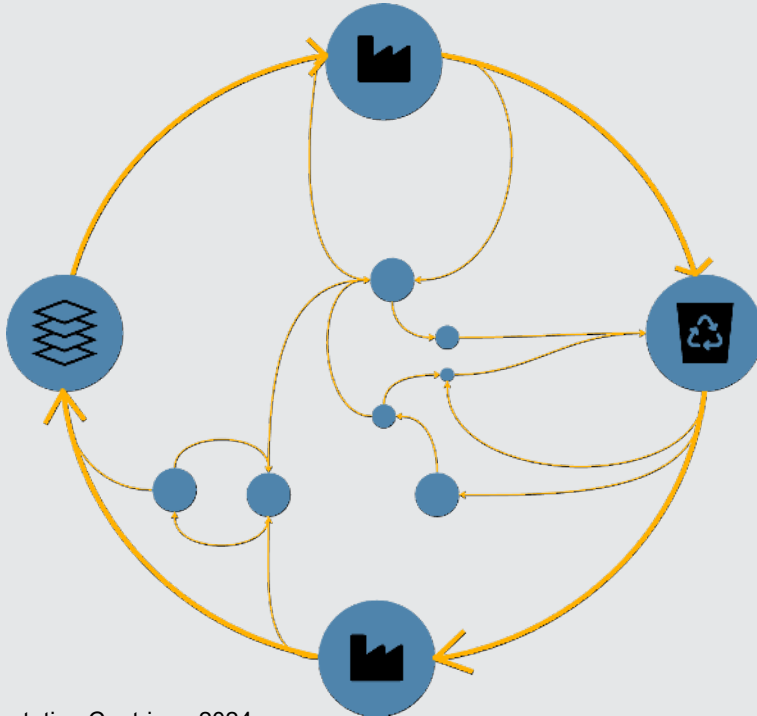


Converting an old community center for sailors into a makerspace, food hub and circular learning center

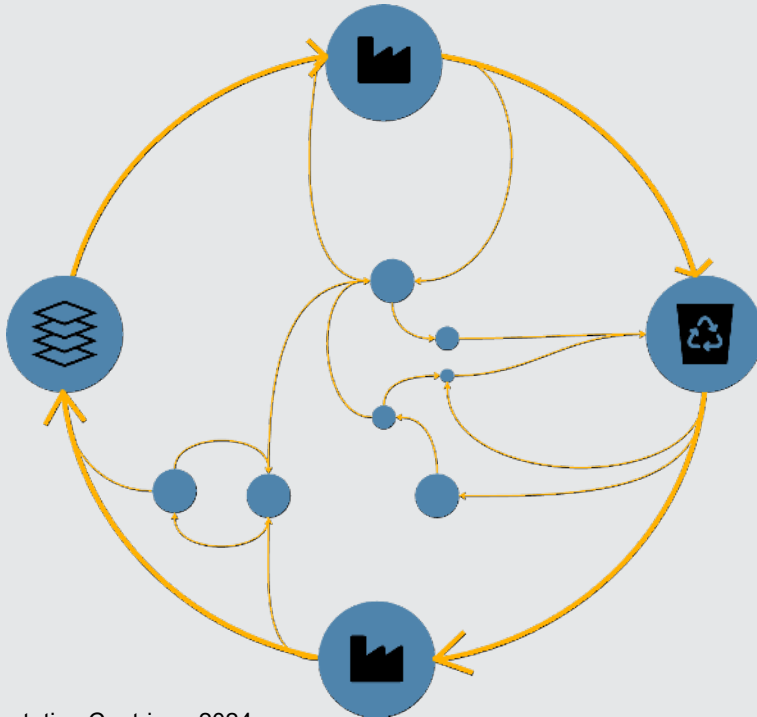
- *Running urban permaculture and urban gardening workshops,*
- *Organizing soil awareness events*
- *Open weekly community gatherings*
- *Setting up community composting collection*



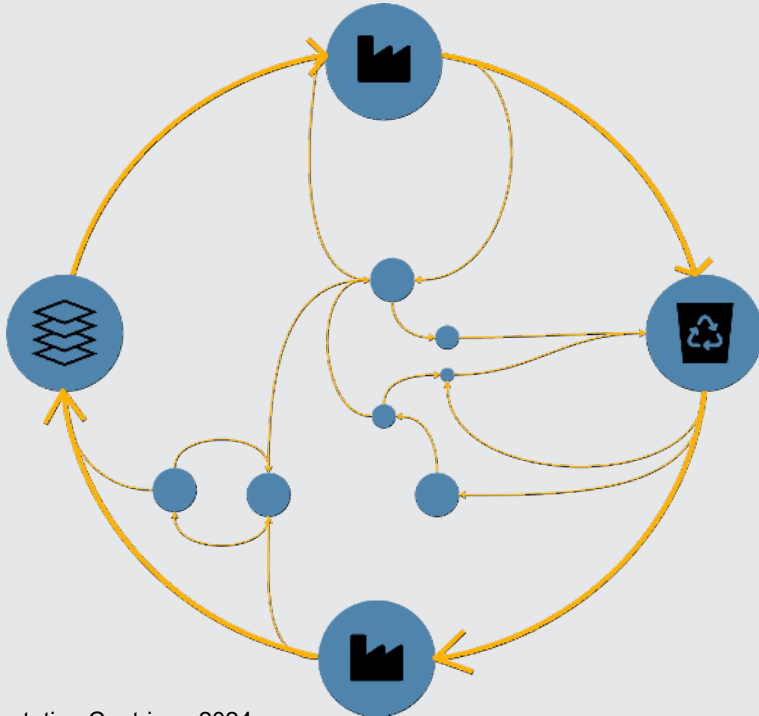
# A CIRCULAR CITY NEEDS A CIRCULAR ECOSYSTEM



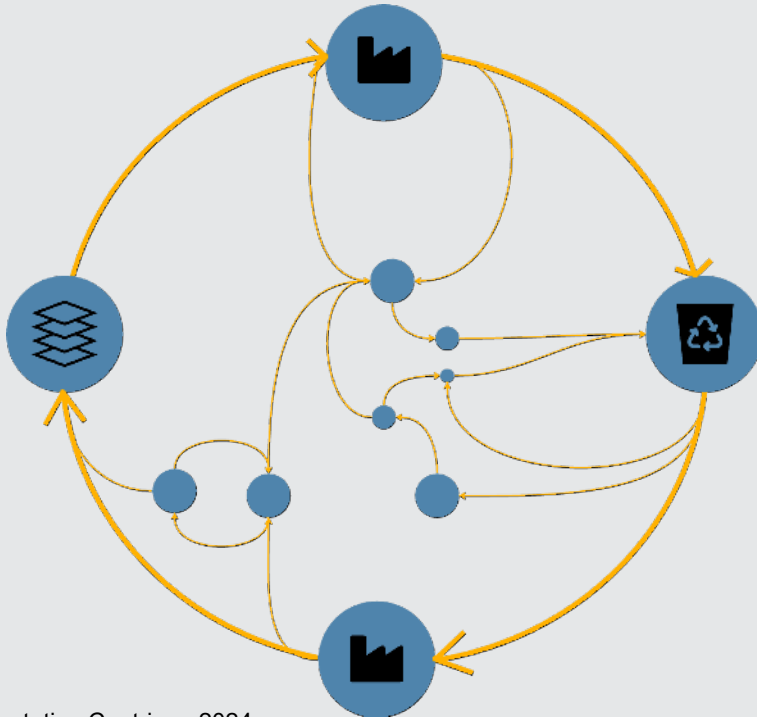
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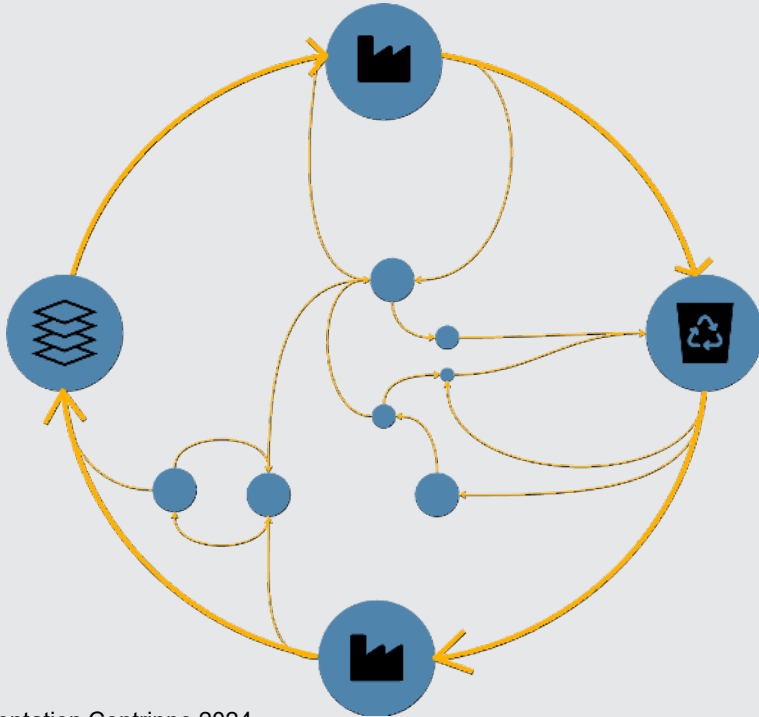
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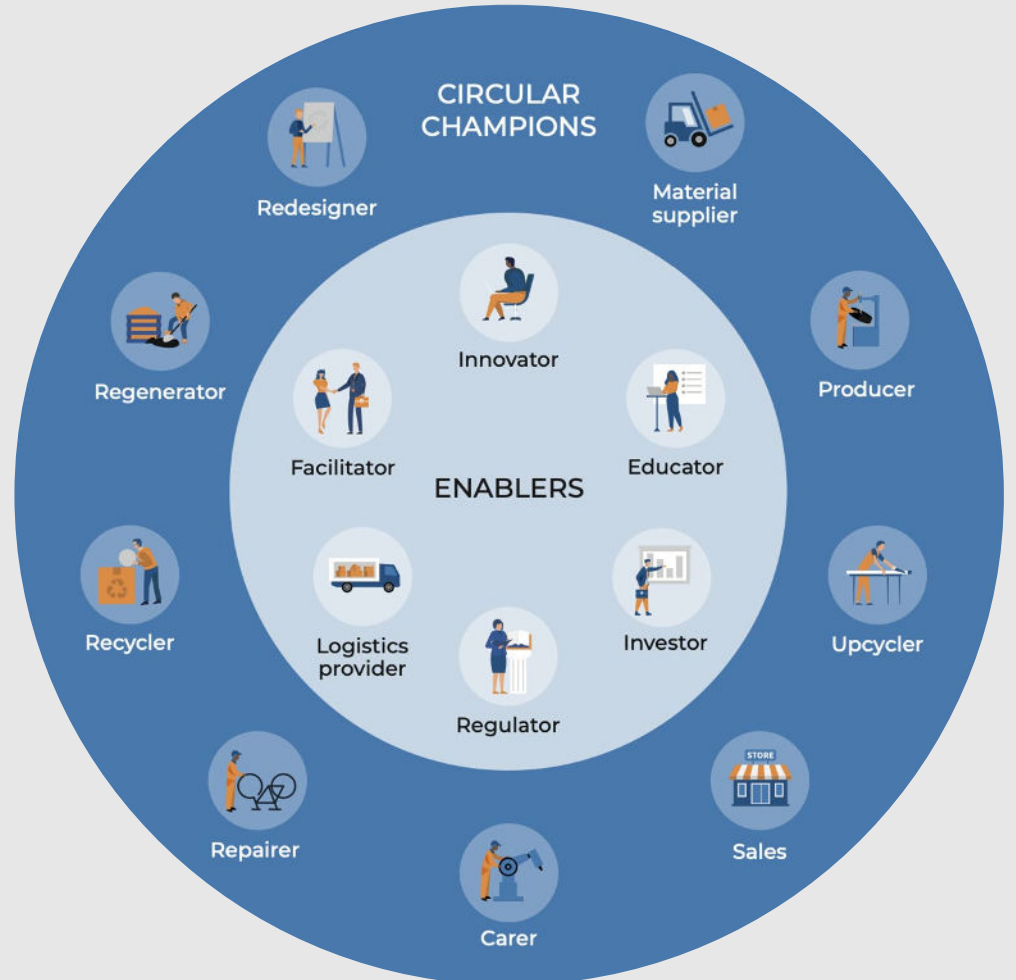
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# A CIRCULAR CITY NEEDS A CIRCULAR ECOSYSTEM



# WHICH ROLES DOES A CIRCULAR CITY NEED?



# CIRCULARITY REQUIRES SPACE IN THE URBAN FABRIC

- Workshop space for creating goods for local consumption in short supply chains
- Space for closing local nutrient loops (composting sites, gardens)
- Space for innovation & experimentation
- Space for exchange & learning in circular networks



Last space in Geneva where light industrial activities can take places. Here we also find a lot of circular businesses

## DE 76 MAKERS VAN HOORD

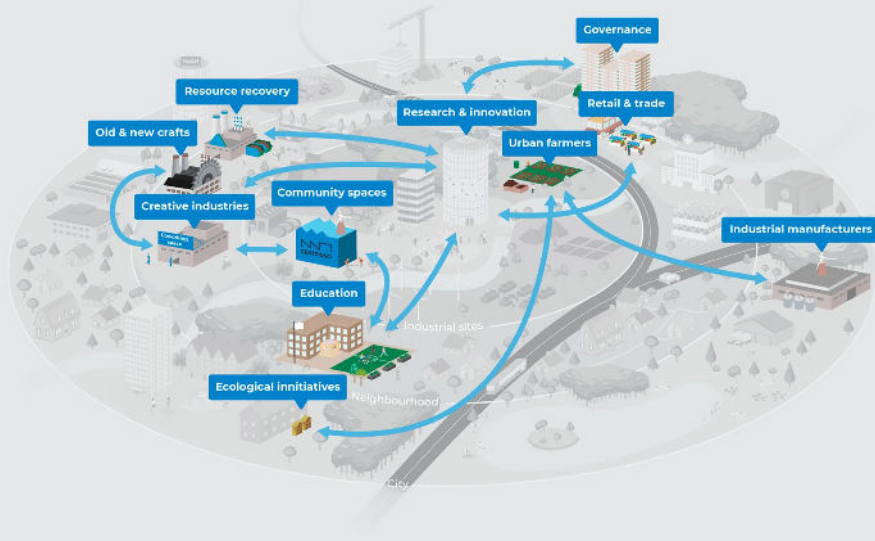
De grootste en meest multidisciplinaire  
afdeling van Amsterdam Noord



# STARTING WITH A MAP!

The CENTRINNO  
Cartography supports you to  
take stock of circular roles in  
your area





It enables communities to identify **circular actors** & possible **synergies** between them

# GROUP ACTIVITY 1 - MAPPING YOUR CIRCULAR CHAMPIONS



# GROUP ACTIVITY 1 - MAPPING YOUR CIRCULAR CHAMPIONS

## What you will do

- **Divide into two groups:** Each group will explore one example area development project
- **In your group:** You will research online for existing circular actors in and around your area

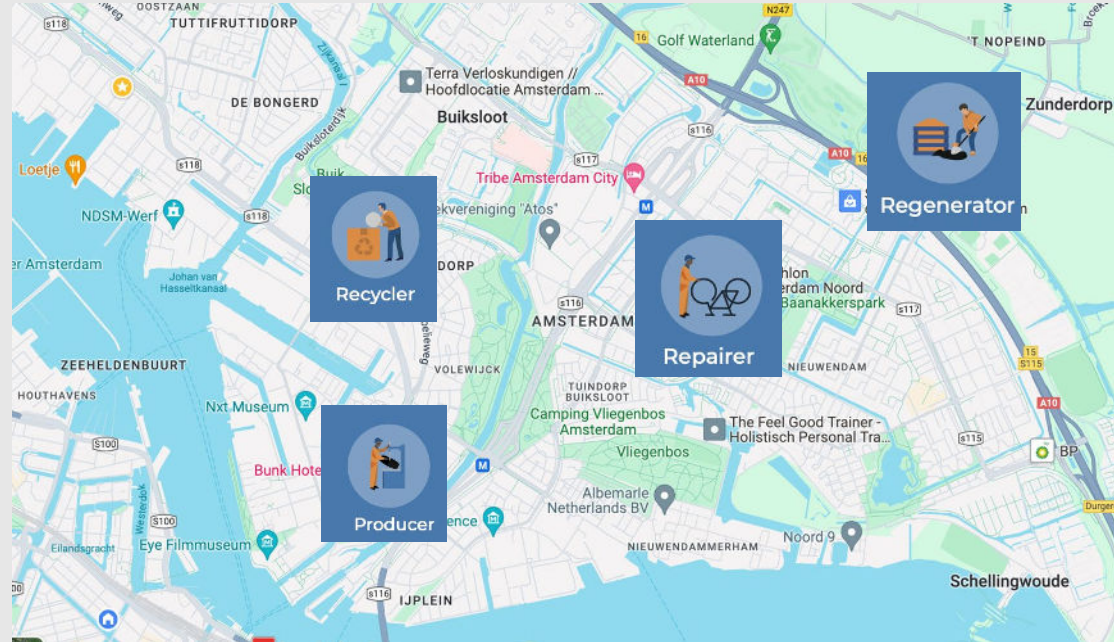
## Key words you can search for

- “Reparatie”, “recycling center”, “compost”
- “Urban garden”,

# GROUP ACTIVITY 1 - MAPPING YOUR CIRCULAR CHAMPIONS

## What you will do

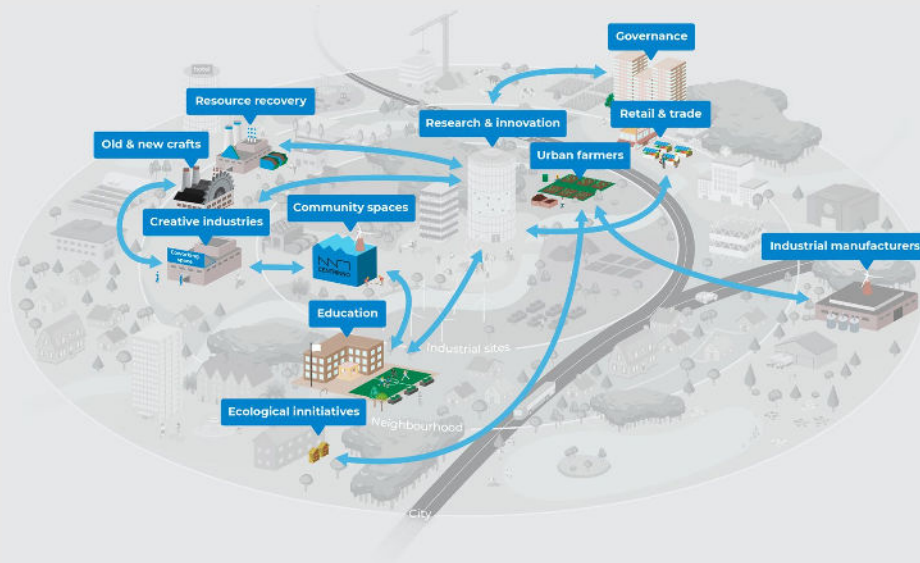
- **Map the actors you found on your print-out**
- **Assign circular roles to the actors you found**



# DISCUSSION

- Which roles have you found?
- Where there any roles missing?
- Which ones?

# GROUP ACTIVITY 2 - FINDING CIRCULAR SYMBIOSES



# A FEW INSPIRATIONS

## Saw dust for material experimentation

In Barcelona, saw dust from woodworking and construction activities could be reused in a local design & engineering university for biomaterial research



# A FEW INSPIRATIONS

## Biochar production from construction & demolition waste

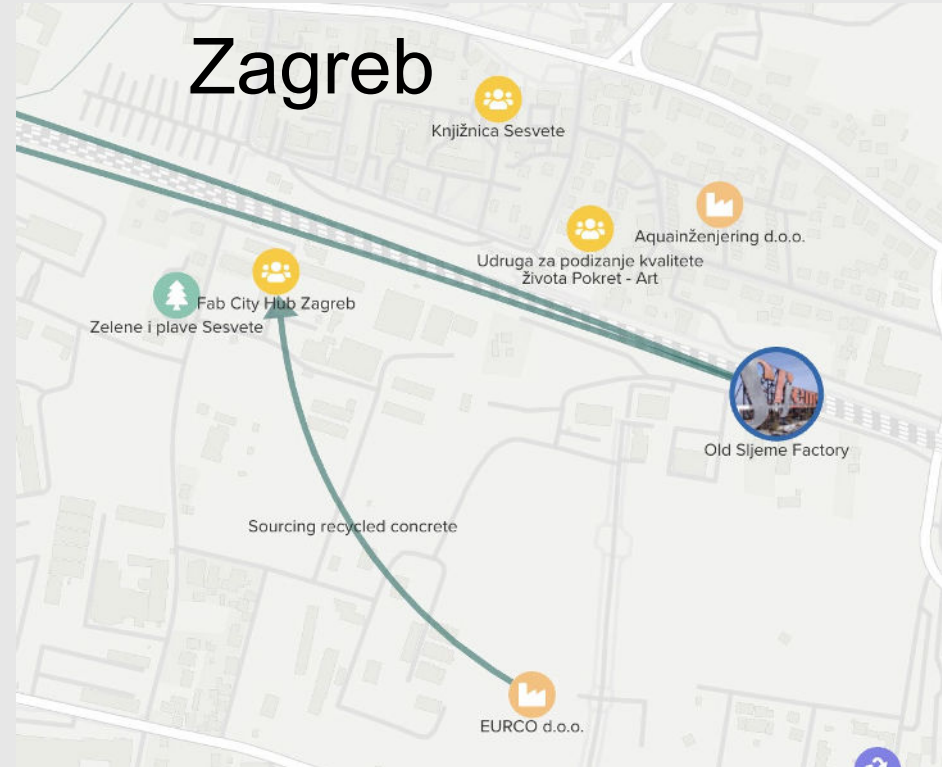
The Geneva pilot researched the possibility to turn local wood waste from C&D into biochar, which could be used to remediate polluted soils & help plant growth



# A FEW INSPIRATIONS

## Concrete recycling

In Zagreb, the local FabLab explores with students & businesses how concrete from demolished brownfields could be recycled into novel products



# A FEW INSPIRATIONS

## An open dialogue between area developers & local makers

In Amsterdam, Maakshap Amsterdam has organized several policy round tables and public events to discuss the future of makership in the rapidly developing area



# OTHER IDEAS

## Before building

- Identification of needs from local businesses
- Zoning
- Building design to suit circular activities

## During building

- Work with local businesses on reuse/ recycling on waste materials
- Procurement of local skills/ materials

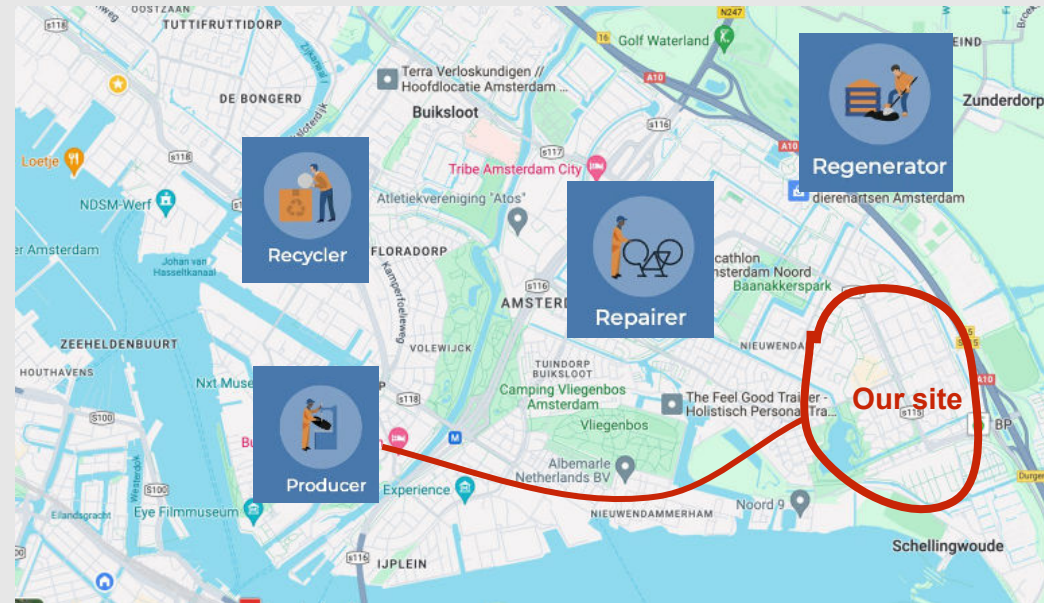
## Use phase

- Maintenance (e.g. wood cuttings & tree replacements) provide materials for makers
- Nutrient cycling in landscape
- Grow materials fit for local productions (e.g. adjust tree species that work for wood working)

# GROUP ACTIVITY 2 - FINDING CIRCULAR SYMBIOSES

## What you will do

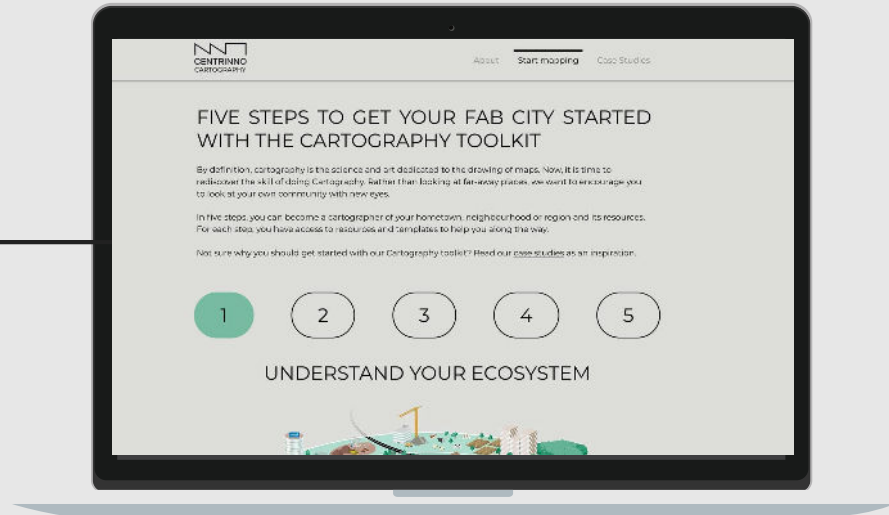
- Discuss in your team which how to involve circular roles in your example project
- Use the question sheet as a guide
- If you have any ideas to involve individual actors you have mapped, highlight them or draw connections between them



# DISCUSSION

- Did you find any potential circular connections? Which ones?
- What were some interesting points in your discussion?

# TOOLS TO TAKE HOME



# STAKEHOLDER MAPPING

Mapping your ecosystem in KUMU\_TEMPLATE ☆ 📁 ☁

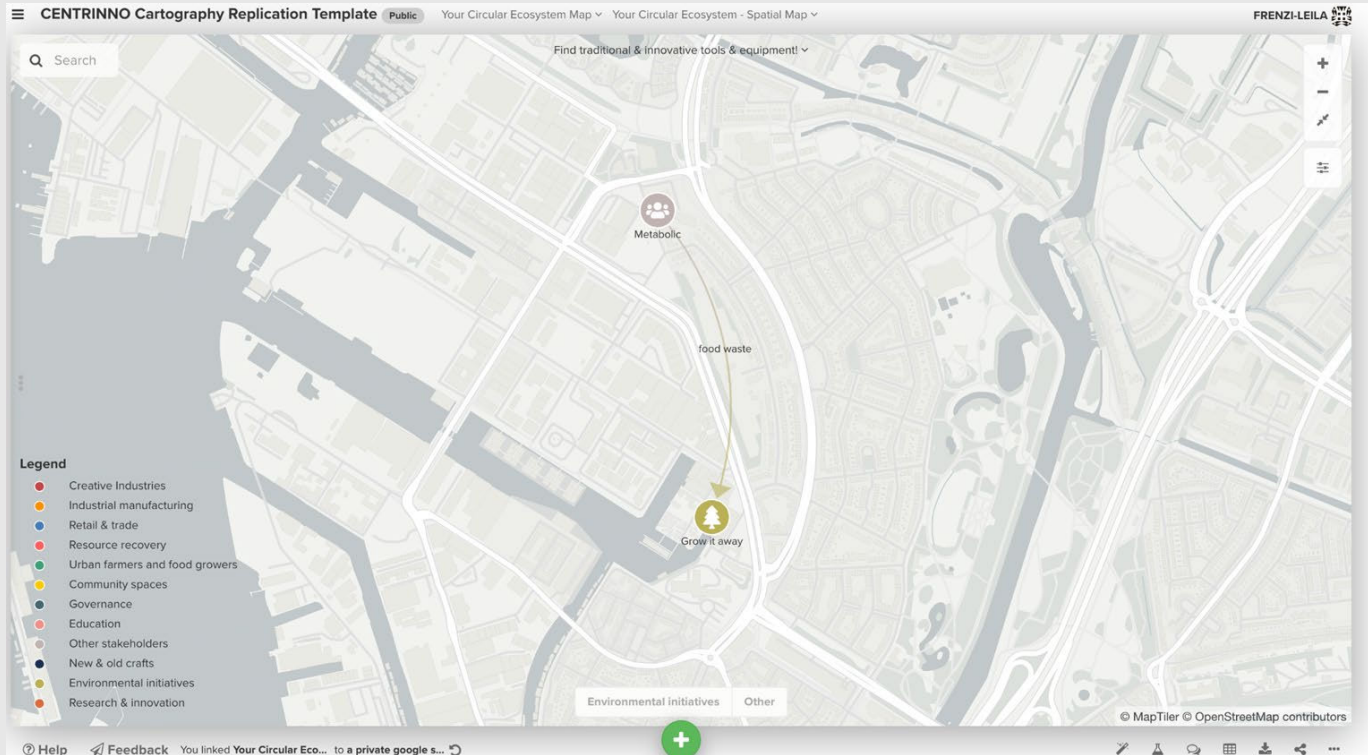
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L9 fx

1	Stakeholder Data Entry Sheet										
2	General Information										
3	Unique ID	Stakeholder name	Stakeholder type	Tags	Sector	Role in the circular economy	Description	Photo	Logo	Website Link	Loc (rea
4											
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# USING KUMU TO VISUALIZE YOUR STAKEHOLDER ECOSYSTEM



# WORKSHOPS

## MAPPING RESOURCES IN OUR COMMUNITY

Workshop sheet 1 - What do we have available at our company?

### Inputs

#### 📦 Resources we buy

##### Associated cards:

Natural resources card  
Knowledge and skills card  
Services card  
Products card  
Other raw materials card



Which resources do you currently use for your production or your services? Pin the cards here

### Stocks

#### Who we are:

Name(s): *Tim Taylor* Number of employees at our company: *5*

Company/ Organization Name

*Tailor*

When was your company founded?

*1990*

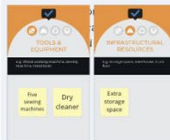
What we do? (1 sentence description of your activity)

*We take in clothes and repair them*

#### What do we have?

At your company, which tools, skills, infrastructure or other resources are most do you have available?

##### Associated cards:

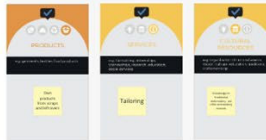


### Outputs

#### 📦 Products and Services we offer

##### Associated cards:

Services Inventory  
Products Inventory



#### 🗑️ Wastes we produce

##### Associated cards:



Fill out the waste inventory cards to take stock of the types of waste you or your company currently produces

# WORKSHOPS

## FINDING CIRCULAR OPPORTUNITIES WORKSHOP

### About this board

This workshop board was created by Metabolic as part of **CENTRINNO** - a research project on regenerating industrial heritage into circular Fab City Hubs. It is part of the **CENTRINNO Cartography** which helps (Fab) cities to map and build circular ecosystems. The board is based on Essense "Amsterdam Thuis" MIRO template.



# A few tips when involving stakeholders (learnings from CENTRINNO)

- Collaborate with local community organizations that might have better contact to local stakeholders
- Make your intentions clear
- Have a dedicated “mapping/ surveying” champion
- Start early with engagement
- Diversify your engagement channels
- Really get to know the needs of the community (most often circularity is not the main driver of small businesses)
- Ensure to not only engage the usual suspects

<https://www.centrinno-cartography.org/>



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