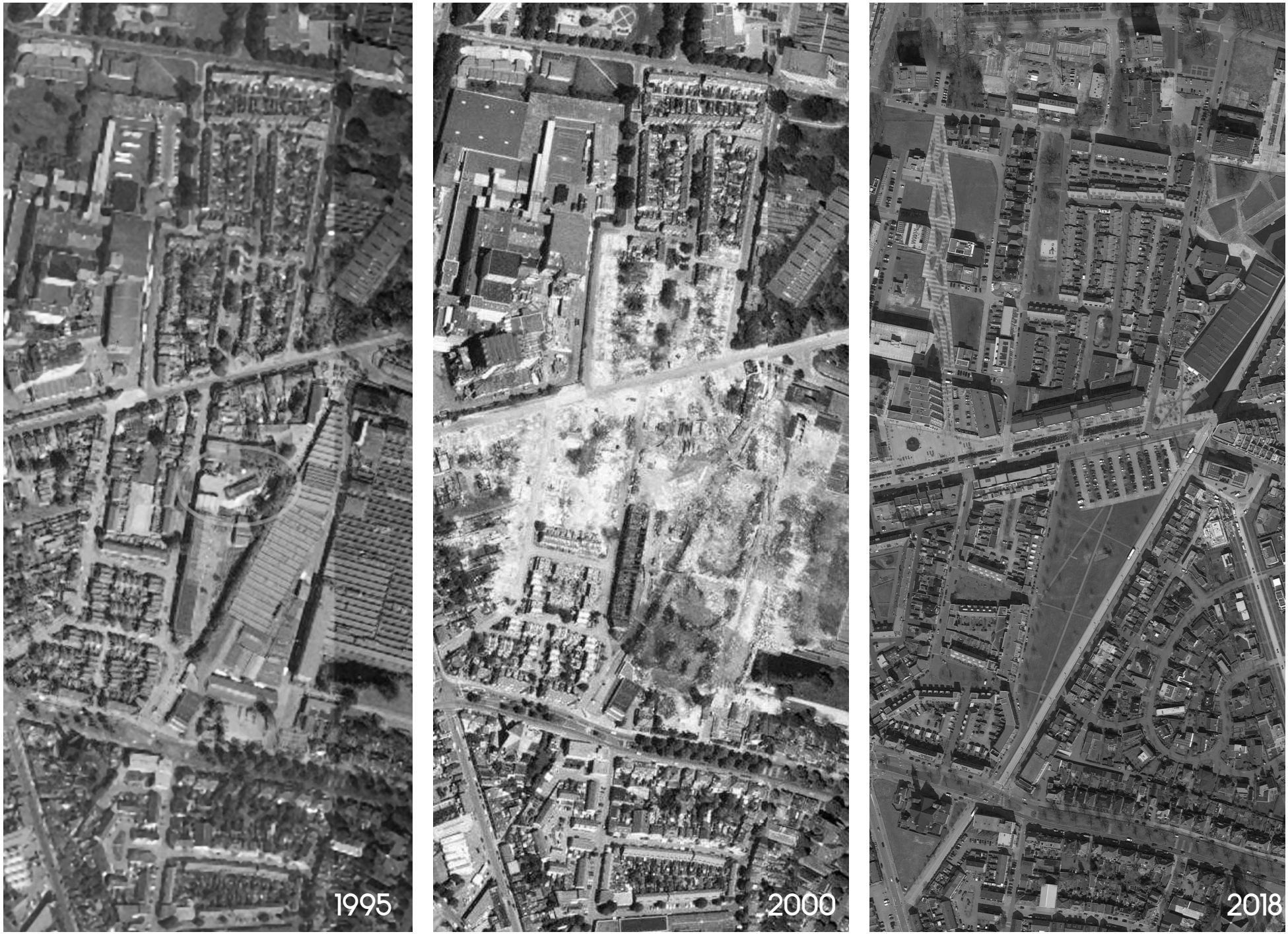
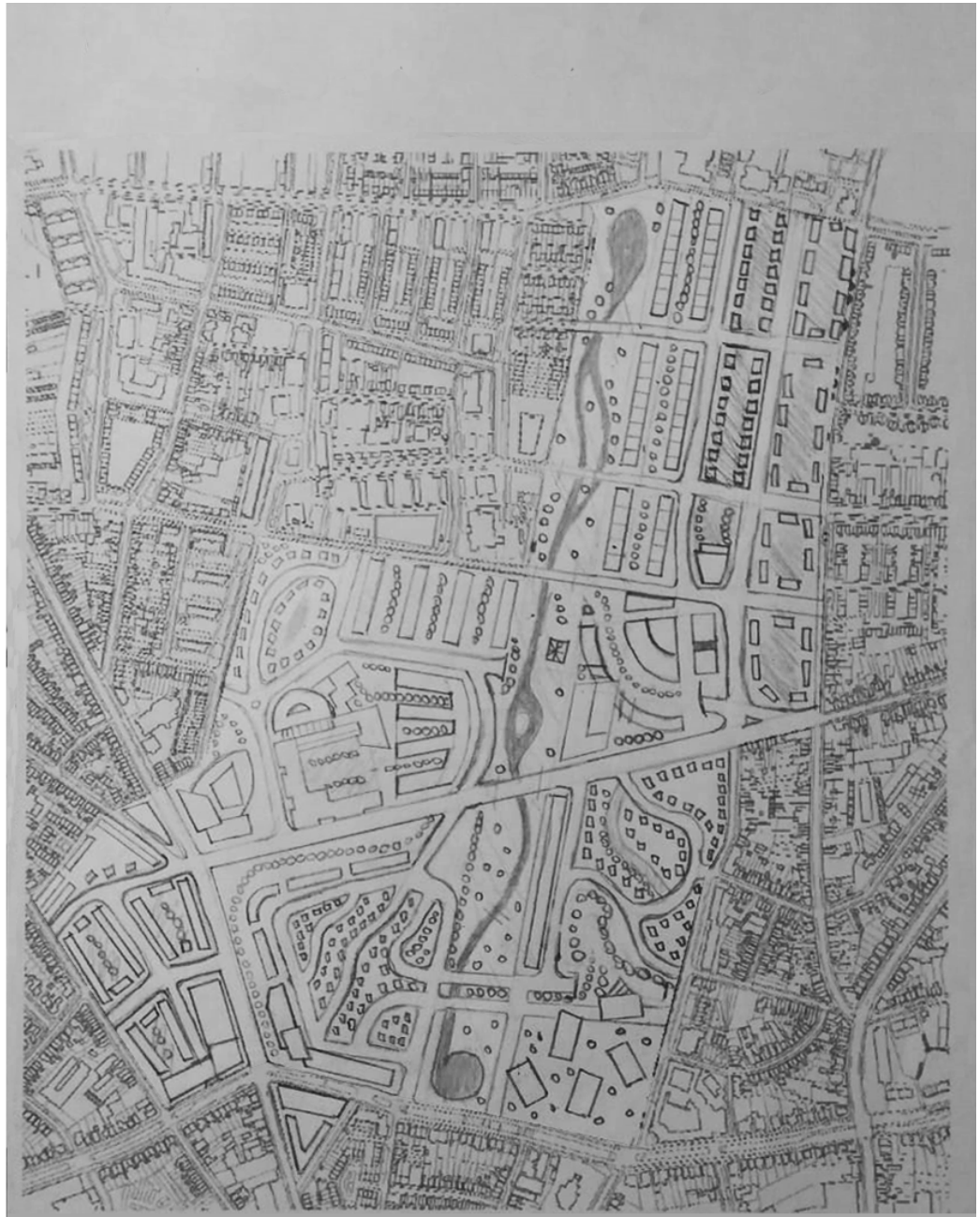
BOUNCING FORWARD

URBAN REDEFINITION FOR THE RESILIENT CITY: ENSCHEDE

P5 Presentation
Rik Meijer
4656067

13th of May, 2000


1995
2000
2018



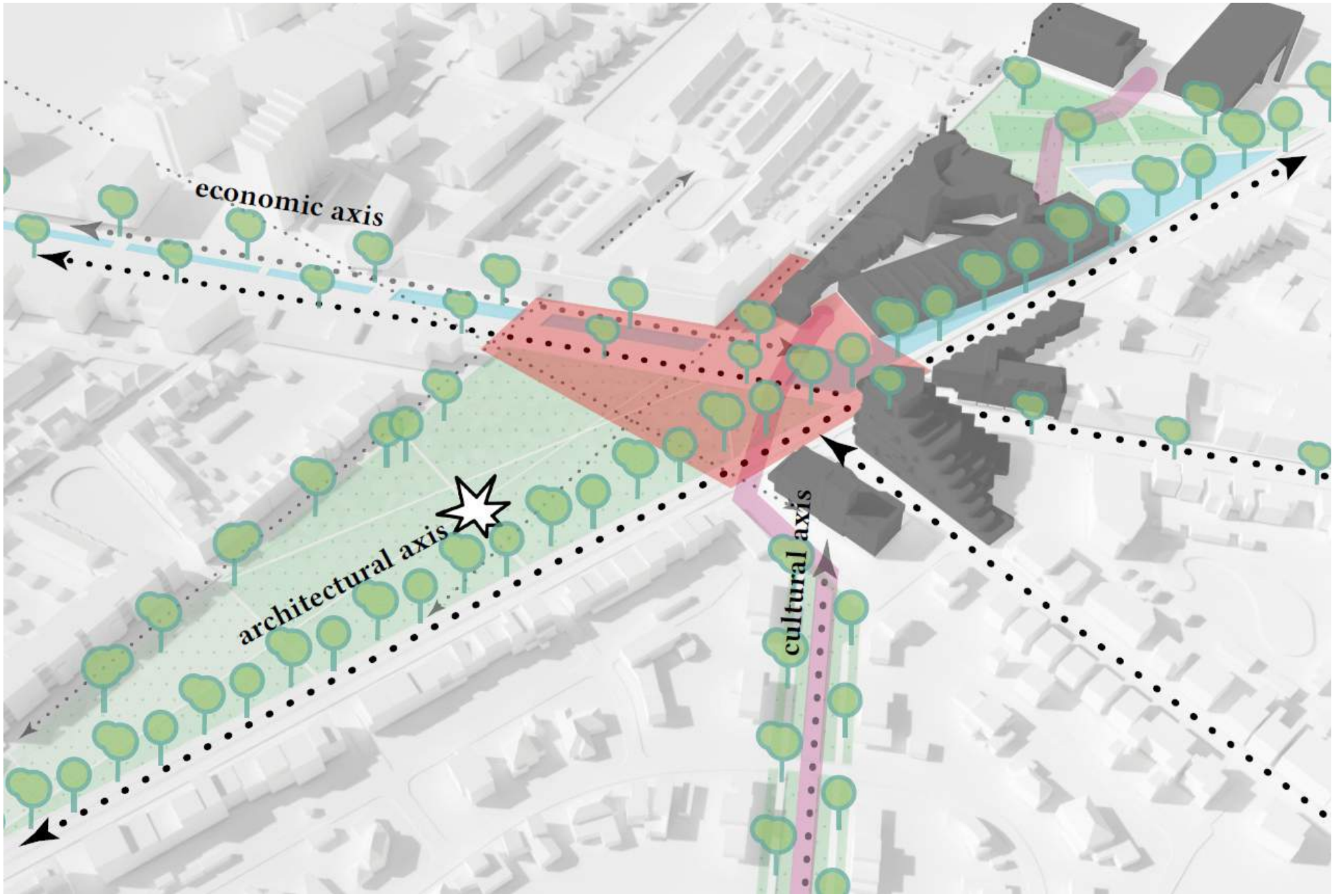
2004

final stitch to the fabric

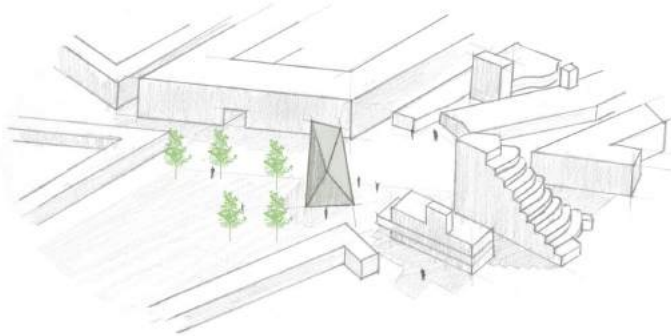
Luchtfoto Roombeek (Drone Photograph) 2018

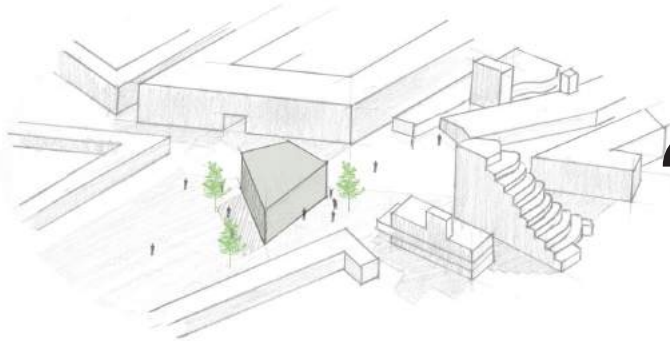
final stitch to the fabric

final stitch to the fabric



new train of thought





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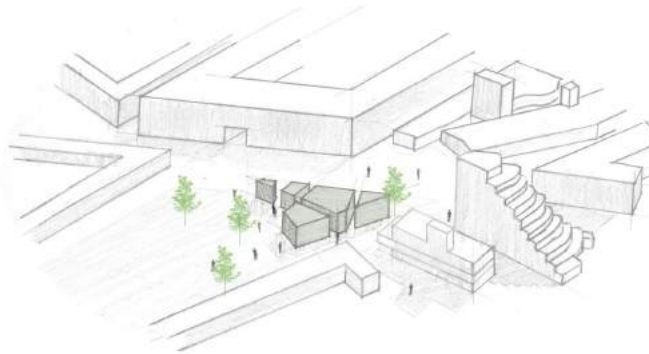
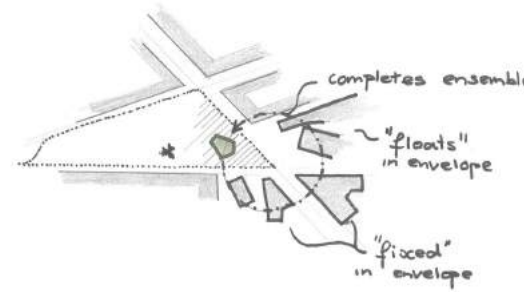
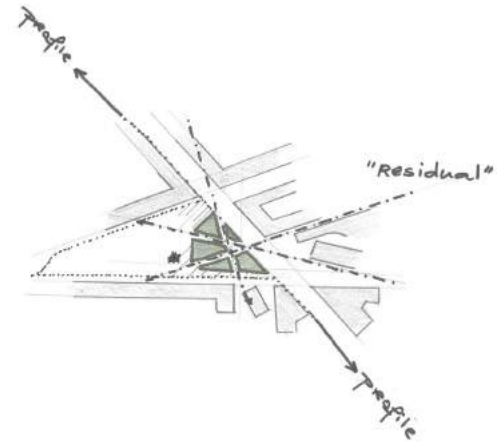
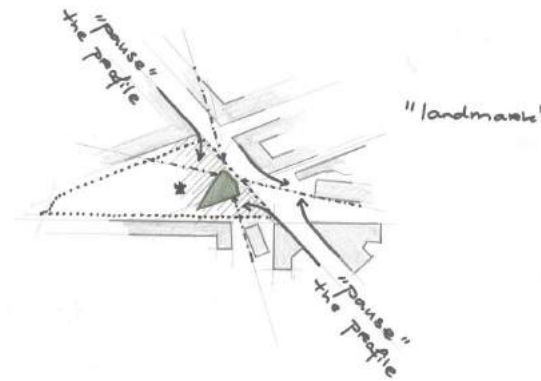
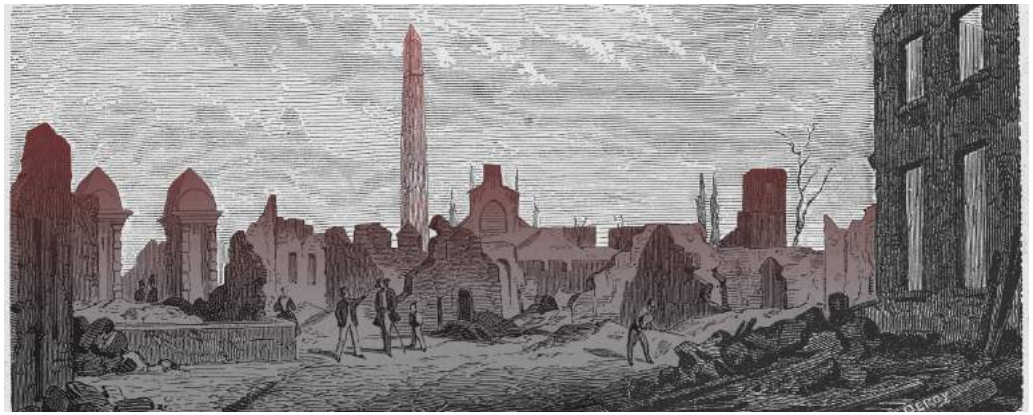








urban resilience: turbulent timeline



urban resilience: disaster struck city

Research Question

How can the city redefine itself by learning from its own experience in urban resilience?

Research Question

How can the city redefine itself by learning from its own experience in urban resilience?

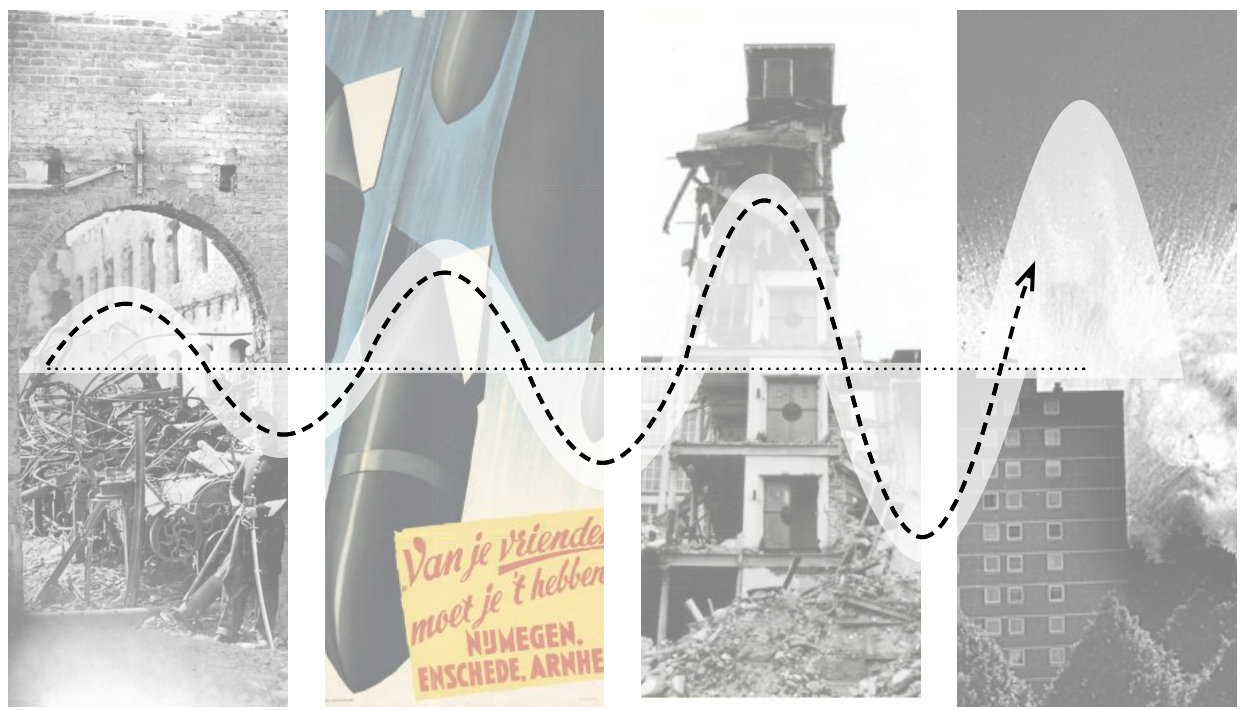
The case of Enschede

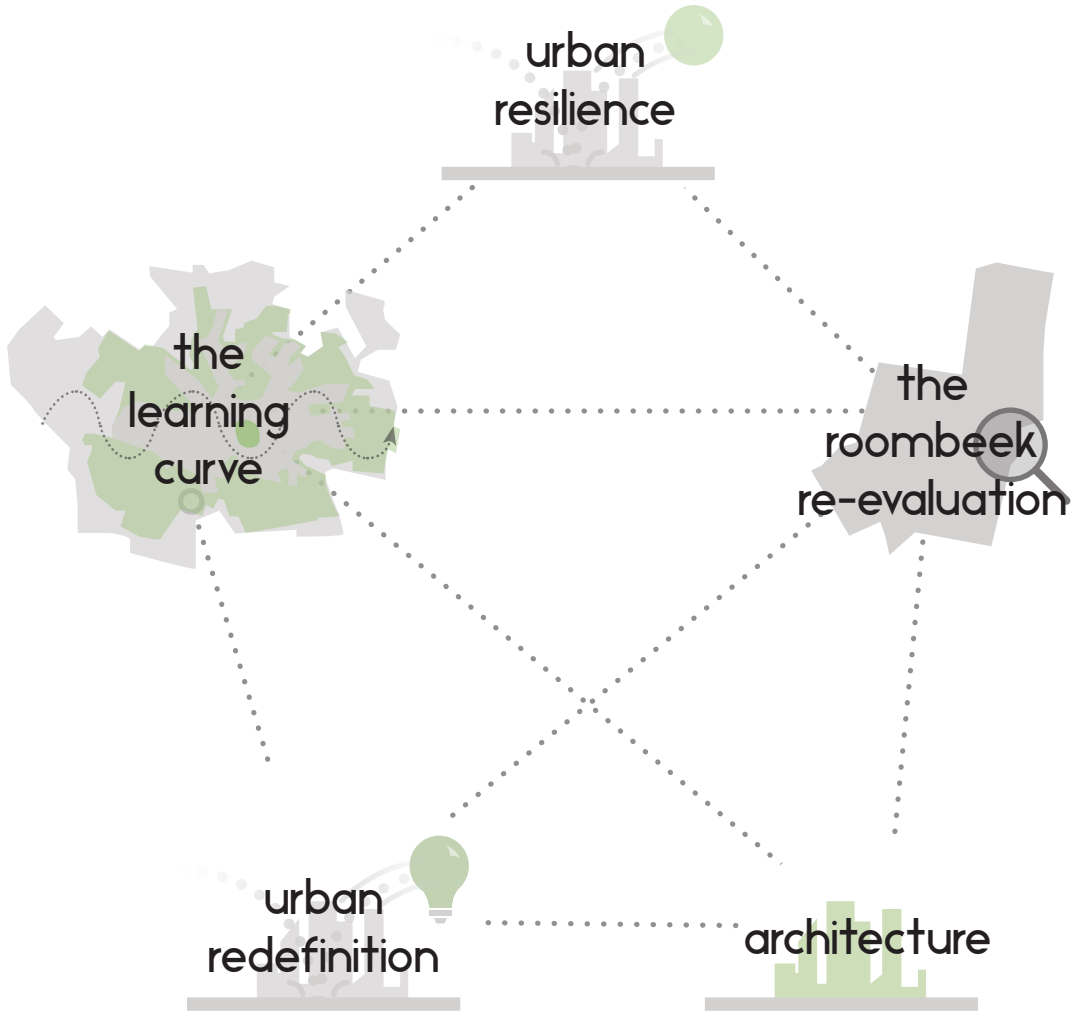
Research Objective

Finding direction for future urban redefinition for the city of Enschede

Research Objective

By learning from its historical moments of destruction and reconstruction

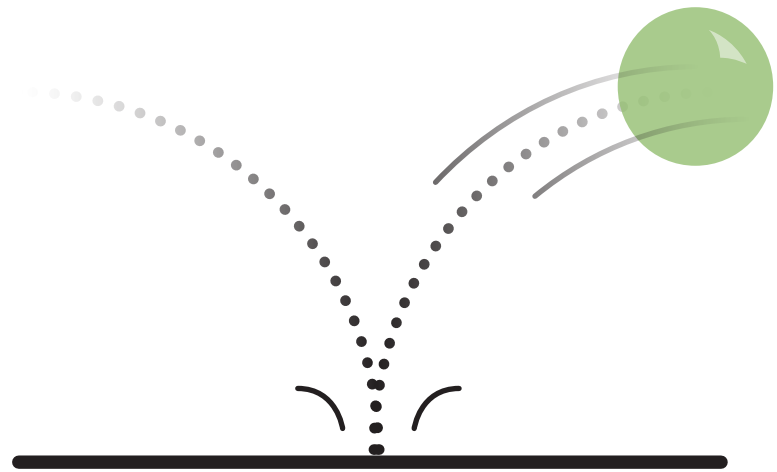



urban
resilience
the
learning
curve
the
roombeek
re-evaluation
urban
redefinition
architecture

urban
resilience

BOUNCING BACK

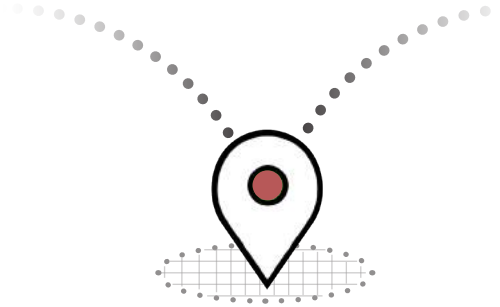
Latin: Resilio ("spring back"), from re (back) + salio ("I jump").



Vulnerabilities of the place

The main objective for reconstruction
should not be just physical recovery,
but it should also answer to the urgencies of a place.

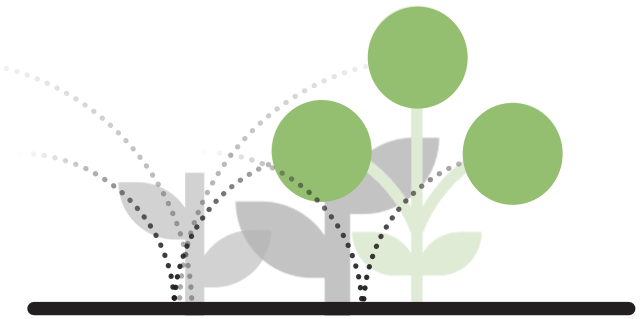
...benefit from the opportunity to `address and rectify the vulnerably found in communities´
- Mannakkara, Wilkinson on"Building Back Better"



Adaptation to environmental situations

"the process of mere rebuilding is a necessary but by itself, insufficient reaction to the "disaster-born opportunity"
- Lawrence Vale, Thomas Campanella

"societies' success or collapse
is determinated by the human capacities
to adapt to different environmental situation"
- Lorenzo Chelleri on sustainable resilience



urban resilience

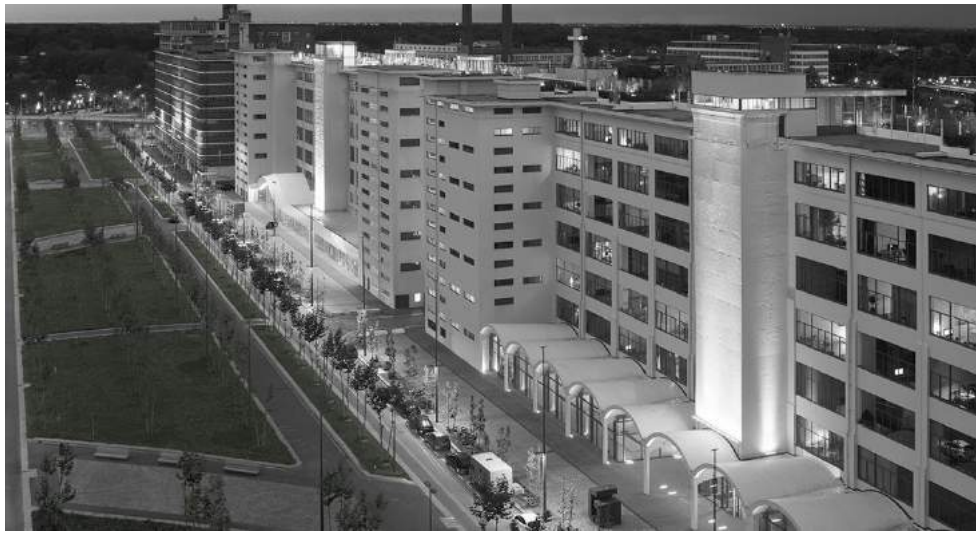
the learning curve

the roombeek re-evaluation

urban redefinition

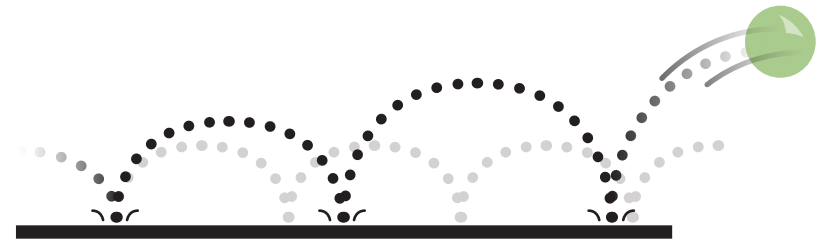
architecture

Catalyzing city development



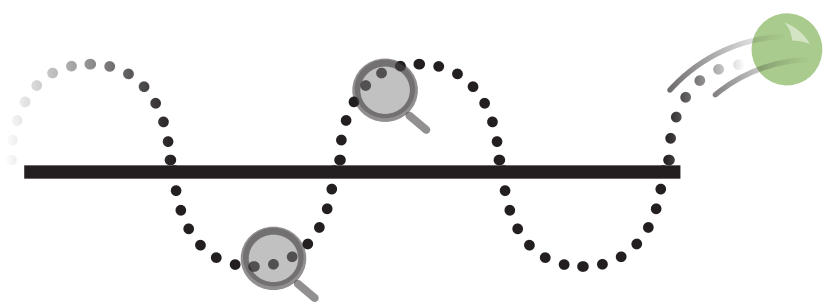
." It aims for purposes beyond the phases of restoration and recovery"

Catalyzing development after disaster should be implicit to the concept of resilience"
- Douglas Paton

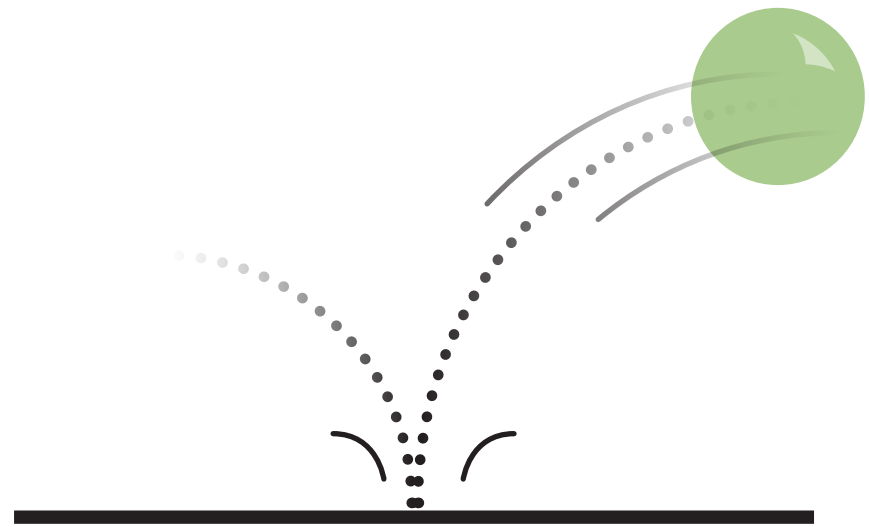


The Learning Curve

"a transformative, '**learning-loop**' attitude for
the long-term development"
- **Lorenzo Chelleri on resilience by adaptivity**



BOUNCING FORWARD

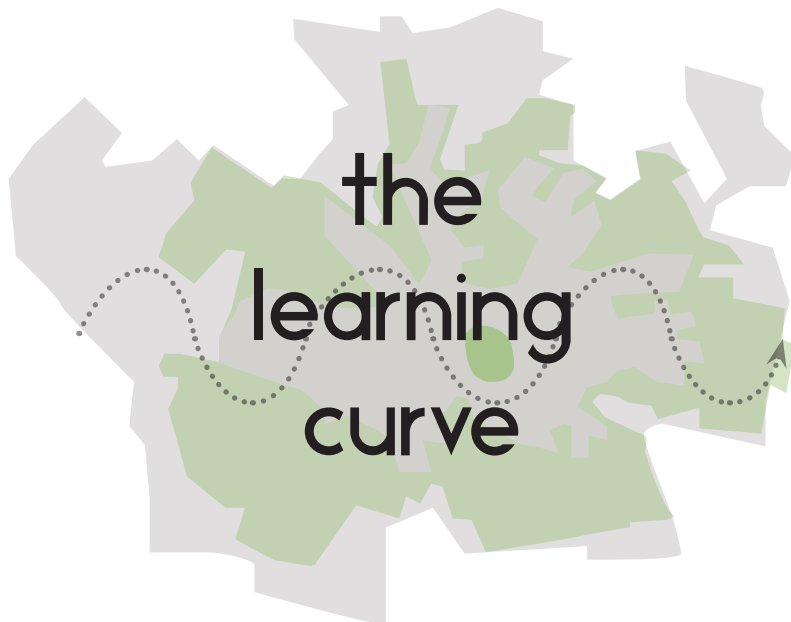


Disaster born opportunity to accelerate urban redefinition

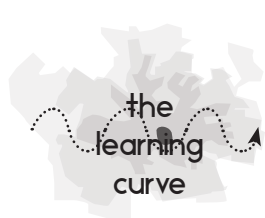
Obligation to predict new societal en environmental requirements

Ability to adapt and predict future vision for the scale of the city

A transformative learning loop attitude


the
learning
curve

urban
resilience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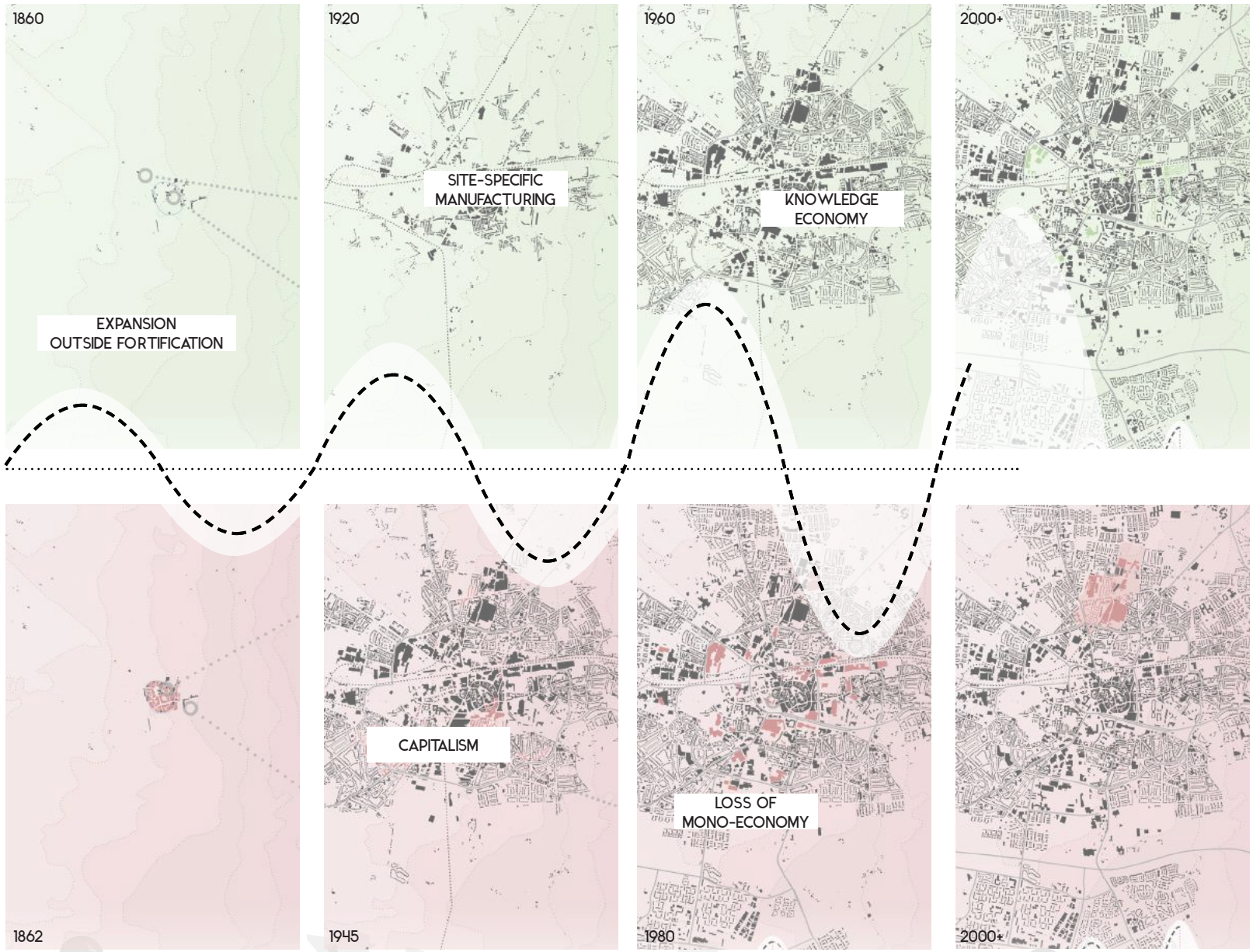
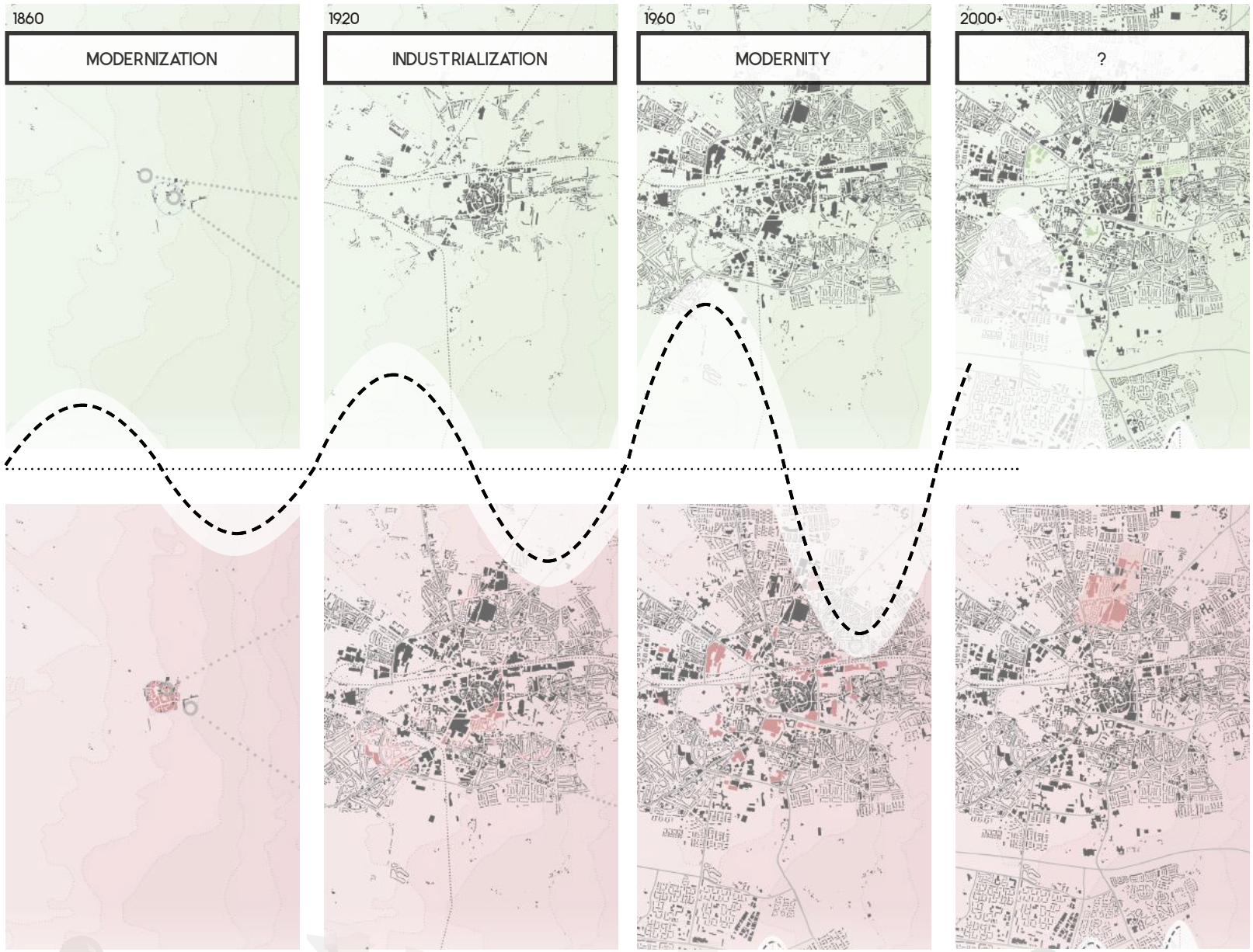
urban
redefinition

architecture

The Learning Curve: Local Requirements



The Learning Curve: Paradigm Shifts



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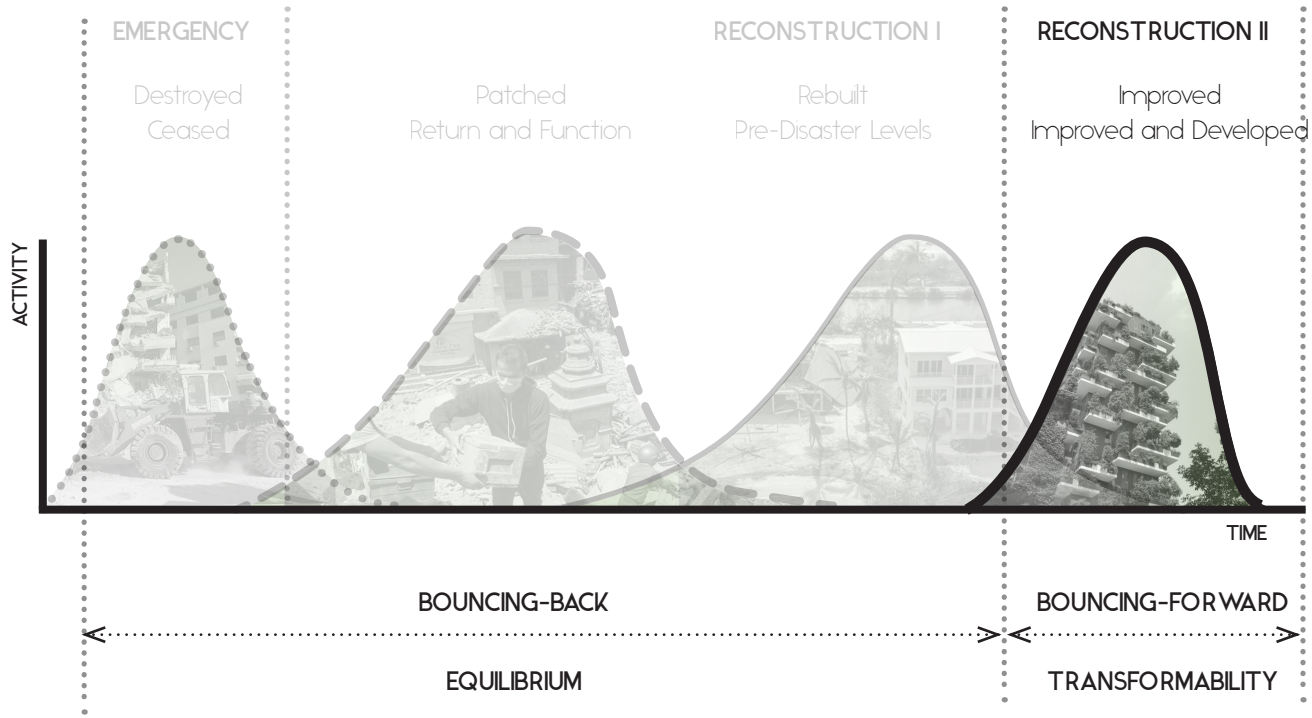
re-evaluation

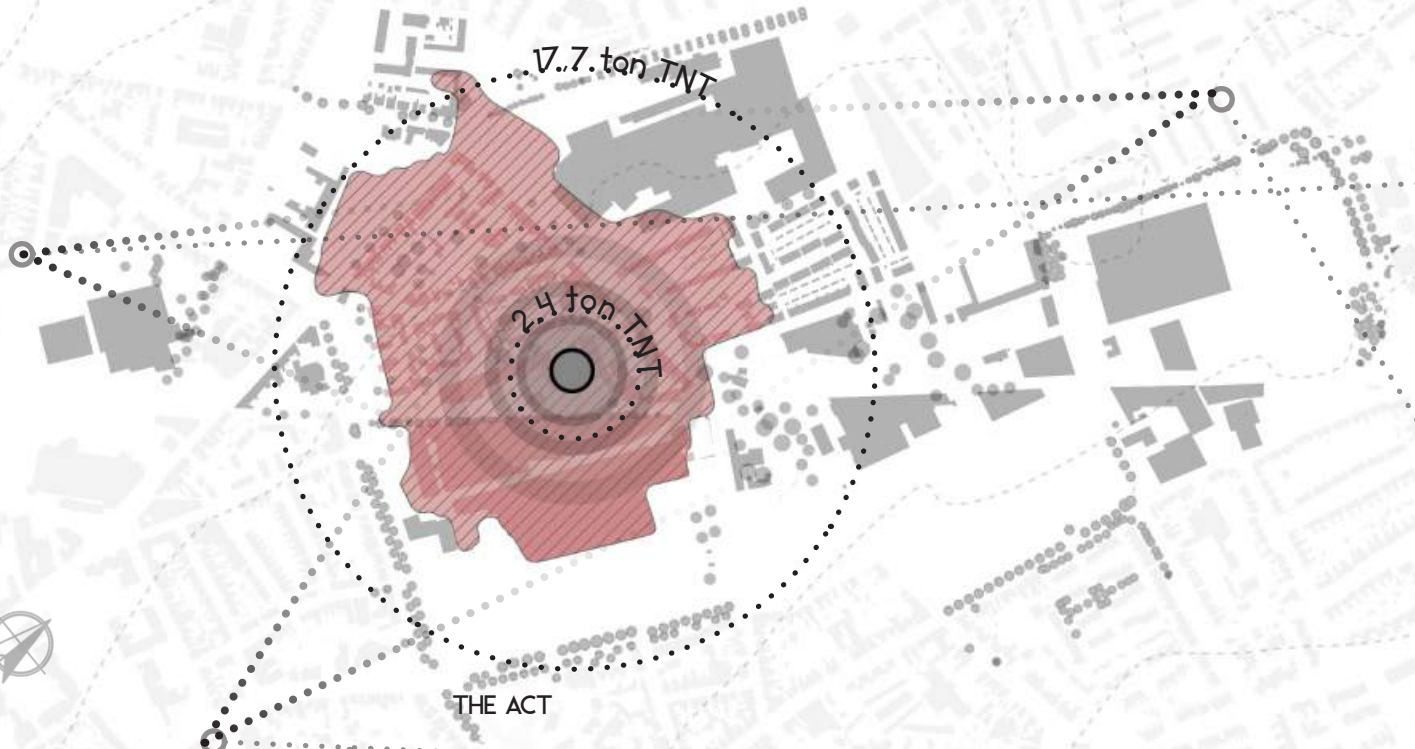
Model of Recovery Activity

Douglas Patton:
The bouncing forward principle :
aims for purposes beyond the phases of restoration and recovery

Phase 4:
Reconstruction for betterment and development



Emergency Phase



THE ACT

EMERGENCY

Destroyed
Ceased

urban resilience

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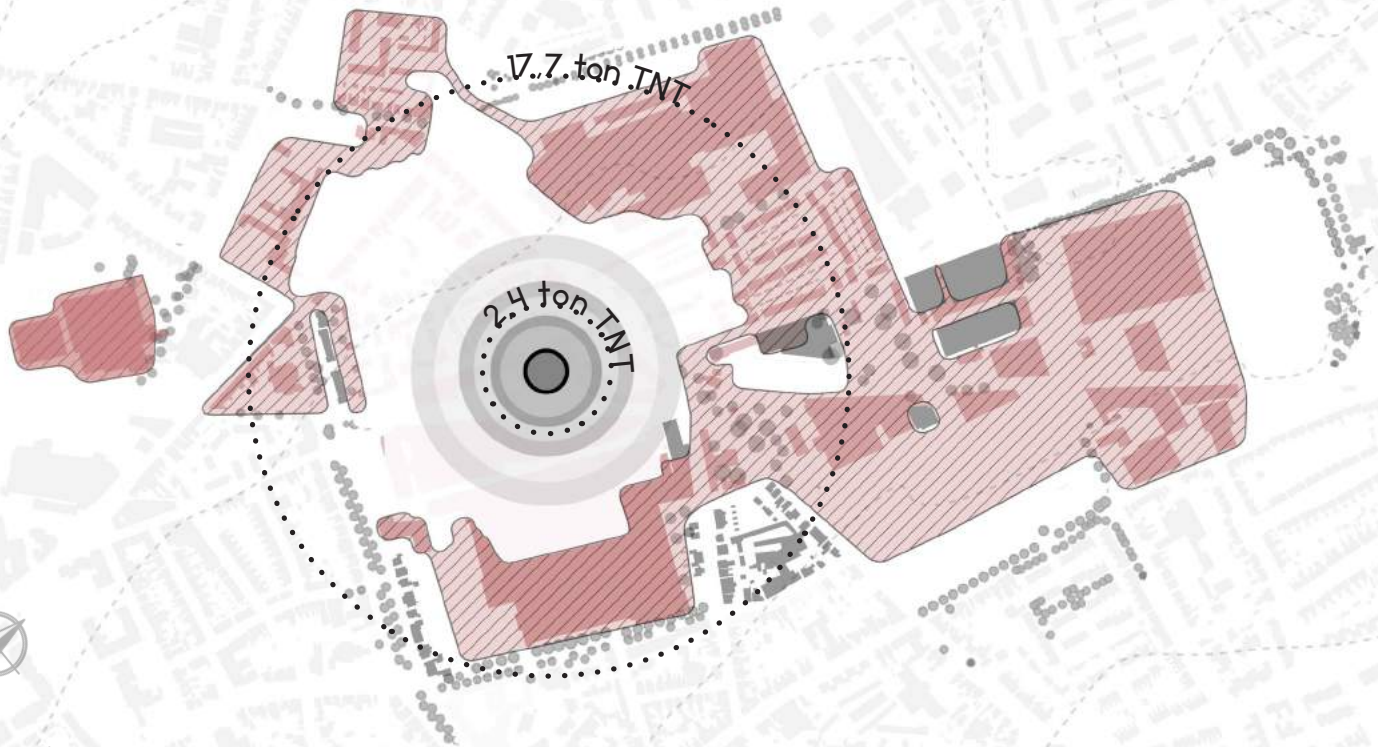
the roombeek re-evaluation

urban redefinition

Emergency Phase



EMERGENCY

Destroyed
Ceased

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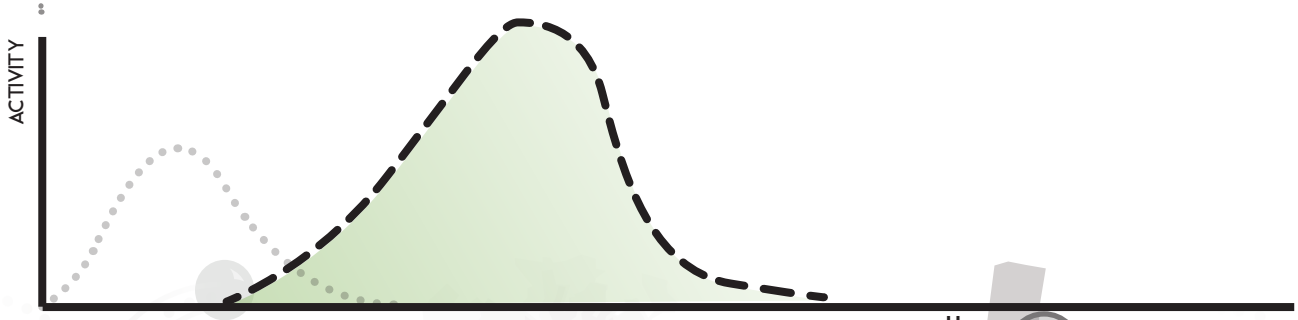
Restoration

EMERGENCY

Destroyed
Ceased

RESTORATION

Patched
Return and Function



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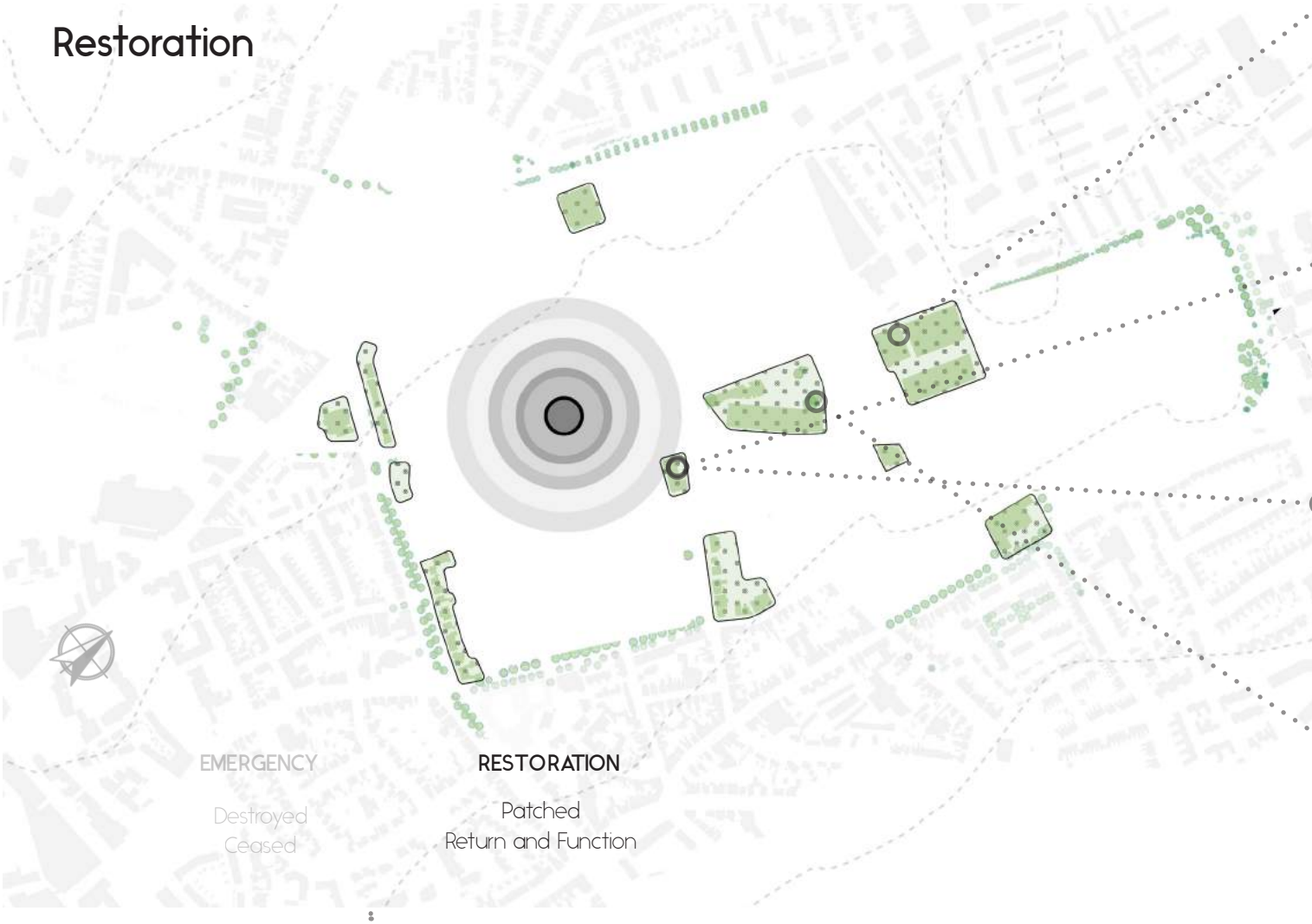
Restoration



EMERGENCY

Destroyed
Ceased

RESTORATION

Patched
Return and Function

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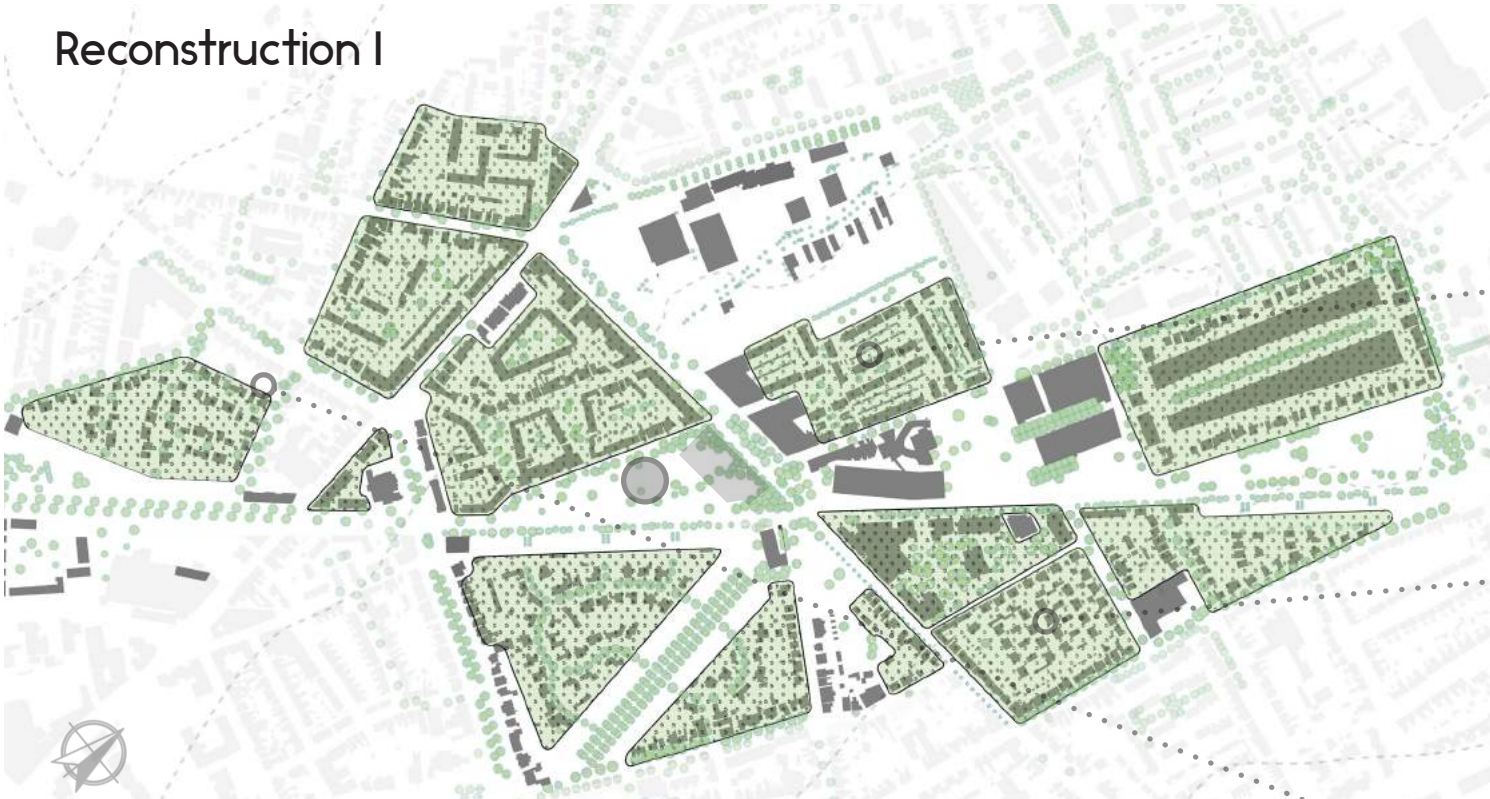
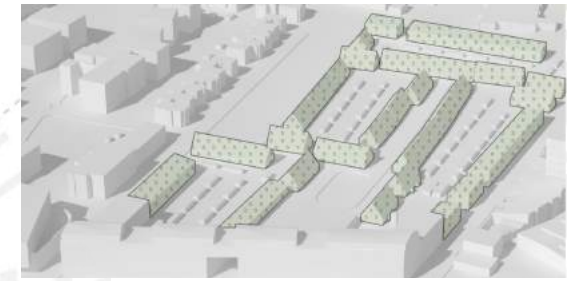
Reconstruction I





EMERGENCY

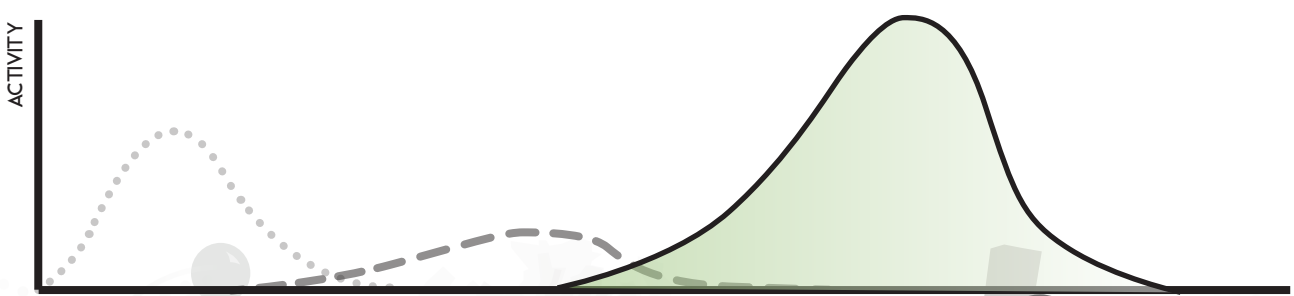
Destroyed
Ceased

RESTORATION

Patched
Return and Function

RECONSTRUCTION I

Rebuilt
Pre-Disaster Levels



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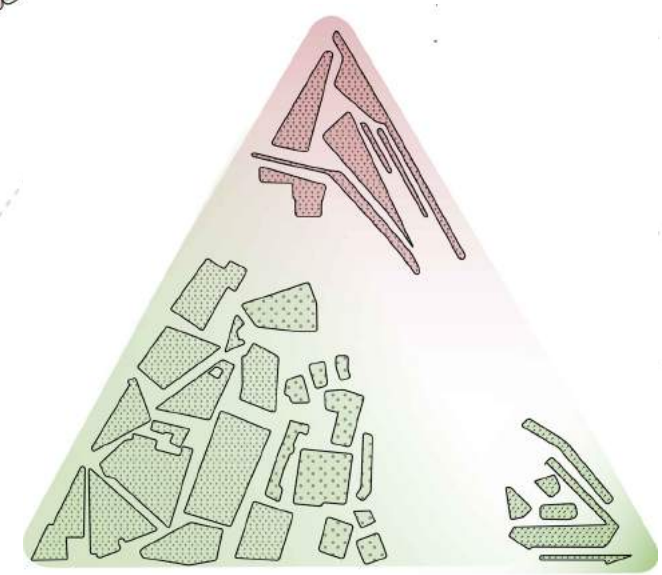
Therapeutic Townplanning



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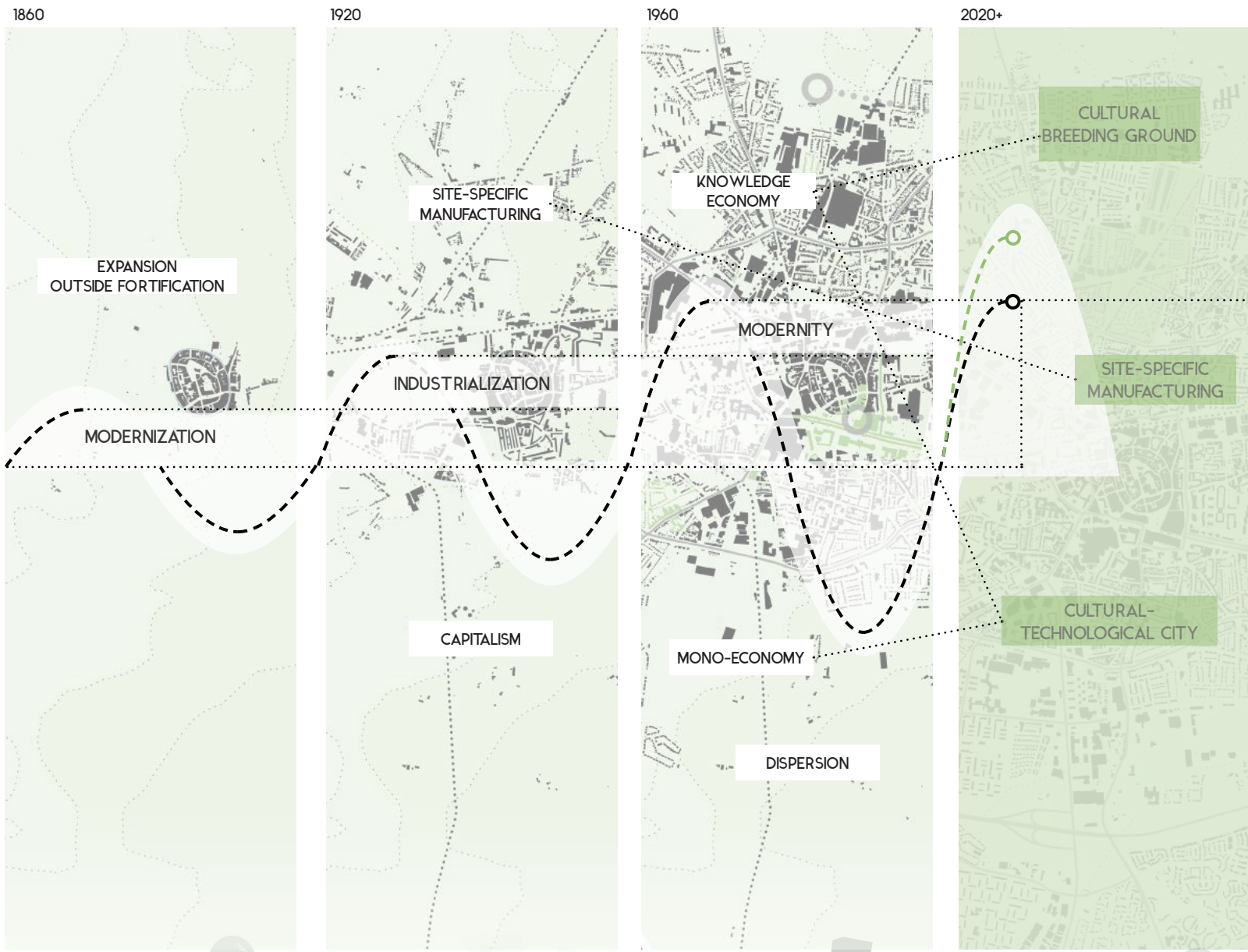
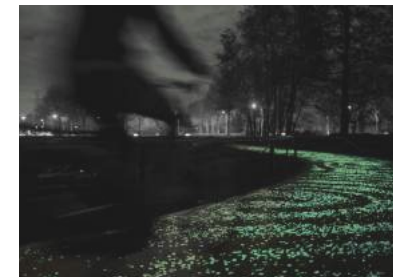
urban
redefinition

Design Objective: Local Scale





Design Objective: Local Scale

Creative Symbiose

A cultural breeding ground for the city's creative forces.
Enhance inner-city climate for creation.
Exemplerary role for the cultural-technological city.

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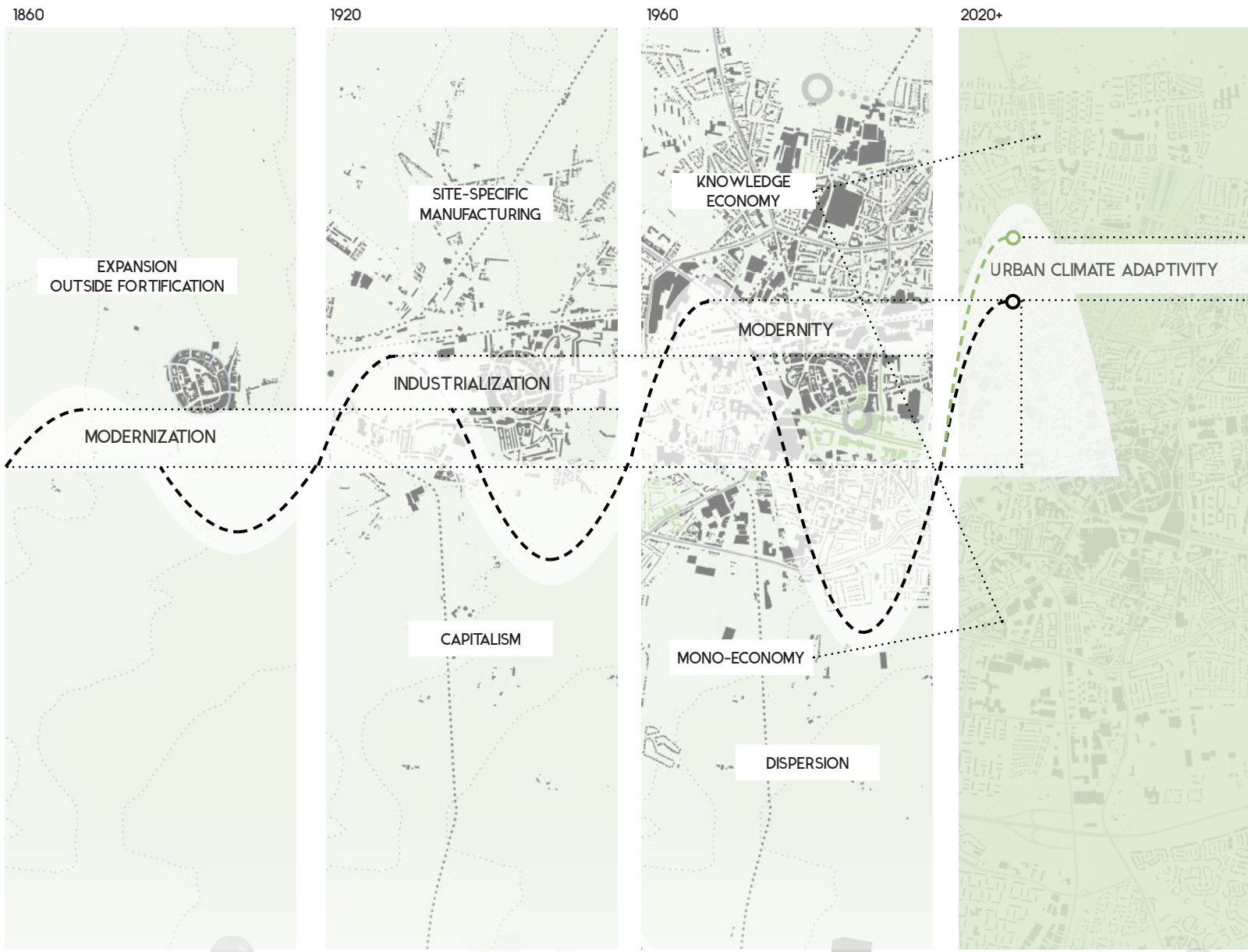
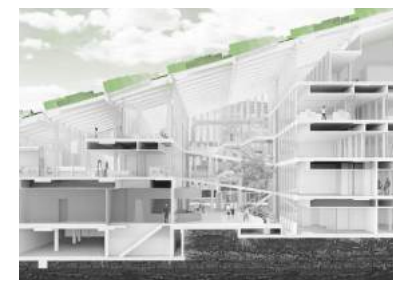
Design Objectives: Paradigm Scale





Design Objectives: Paradigm Scale

1860 1920 1960 2020+

EXPANSION OUTSIDE FORTIFICATION

MODERNIZATION

INDUSTRIALIZATION

SITE-SPECIFIC MANUFACTURING

CAPITALISM

MODERNITY

KNOWLEDGE ECONOMY

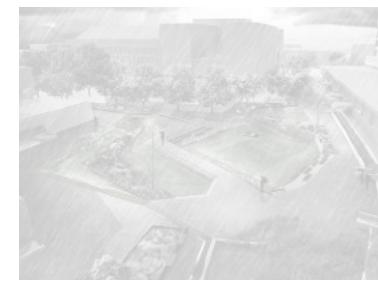
MONO-ECONOMY

DISPERSION

URBAN CLIMATE ADAPTIVITY

Urban Climate Adaptation:

Resource Independency
Passive climate systems
Withstands future ecological transformation
Exemplerary role in climate adaptive building



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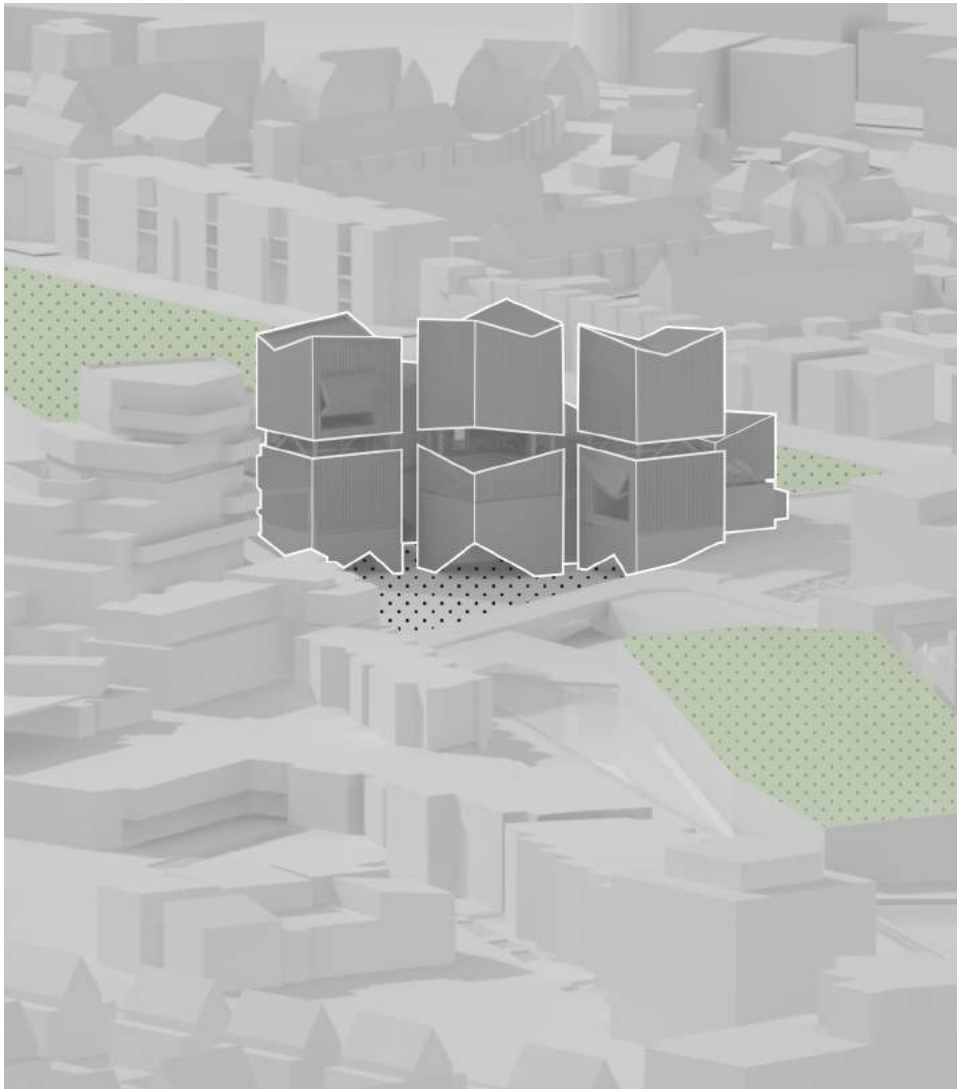
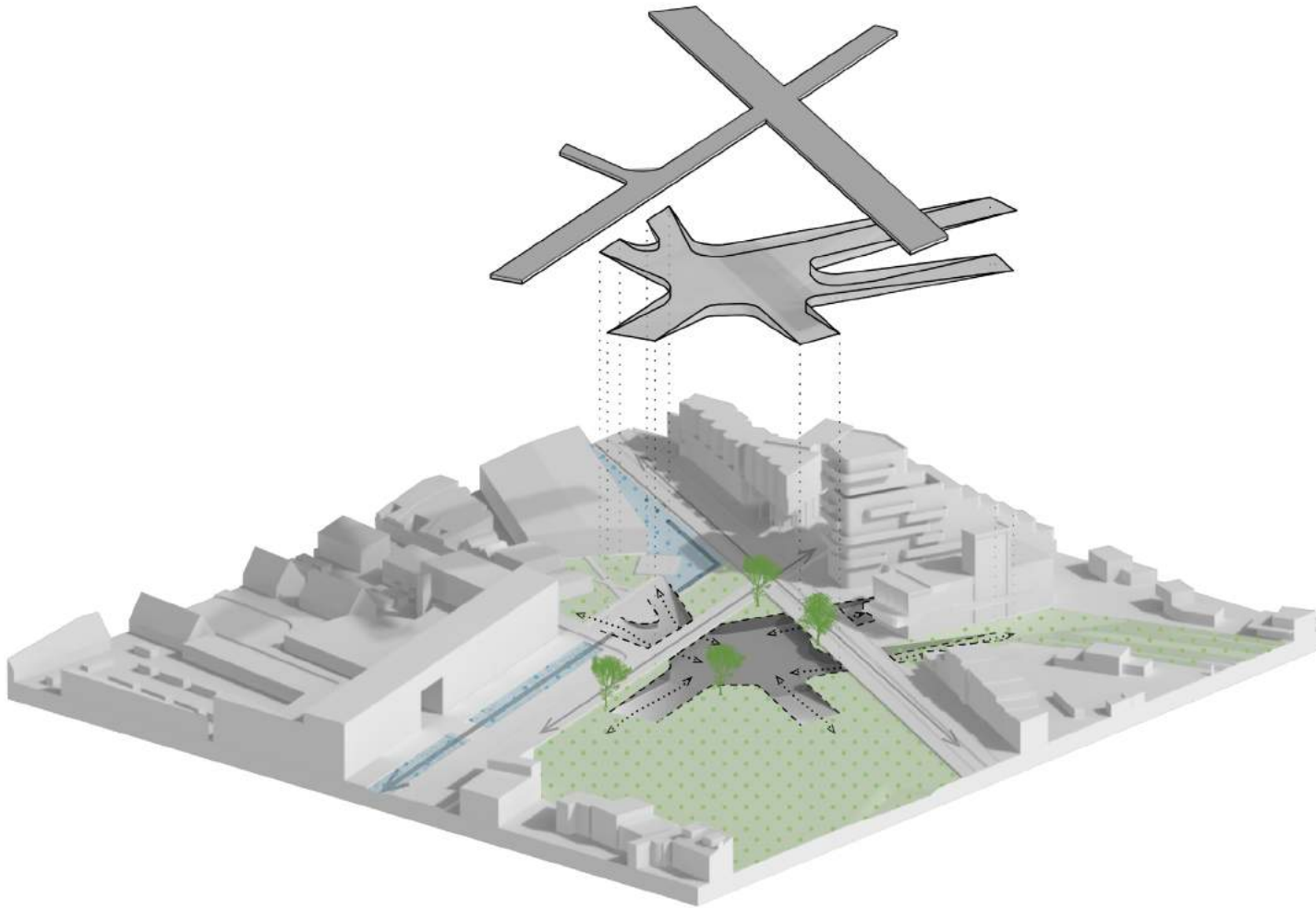
Reconfigurating the city-shape

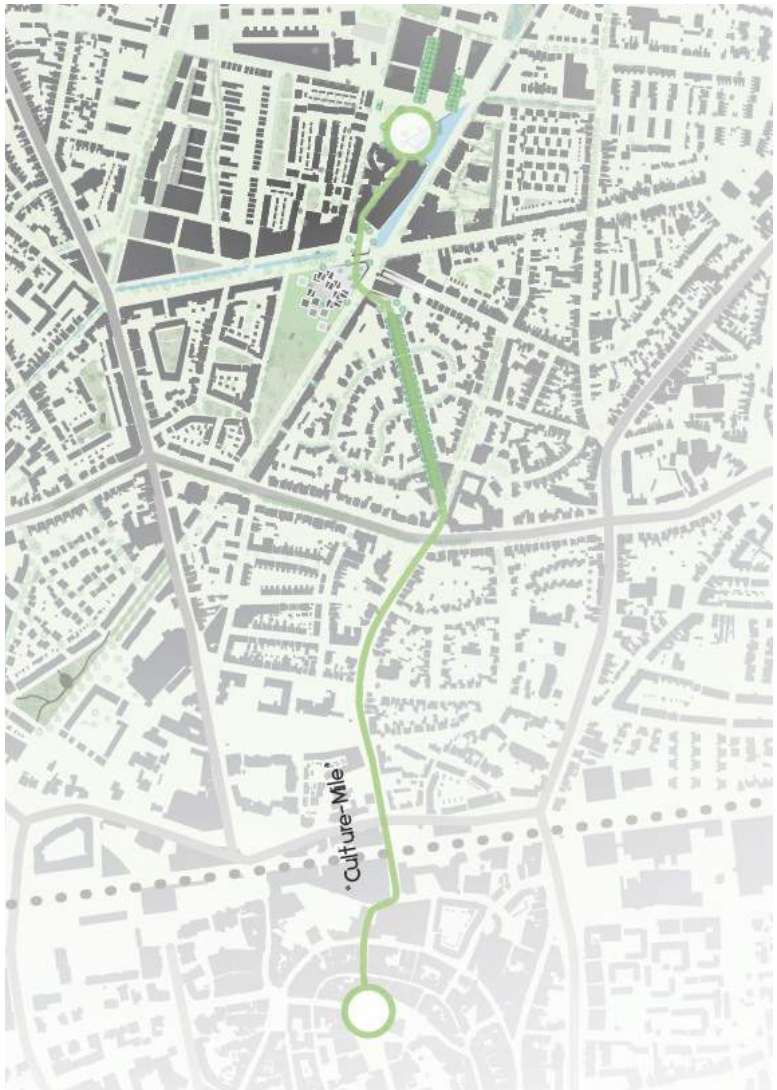
Reconfigurating the city-shape

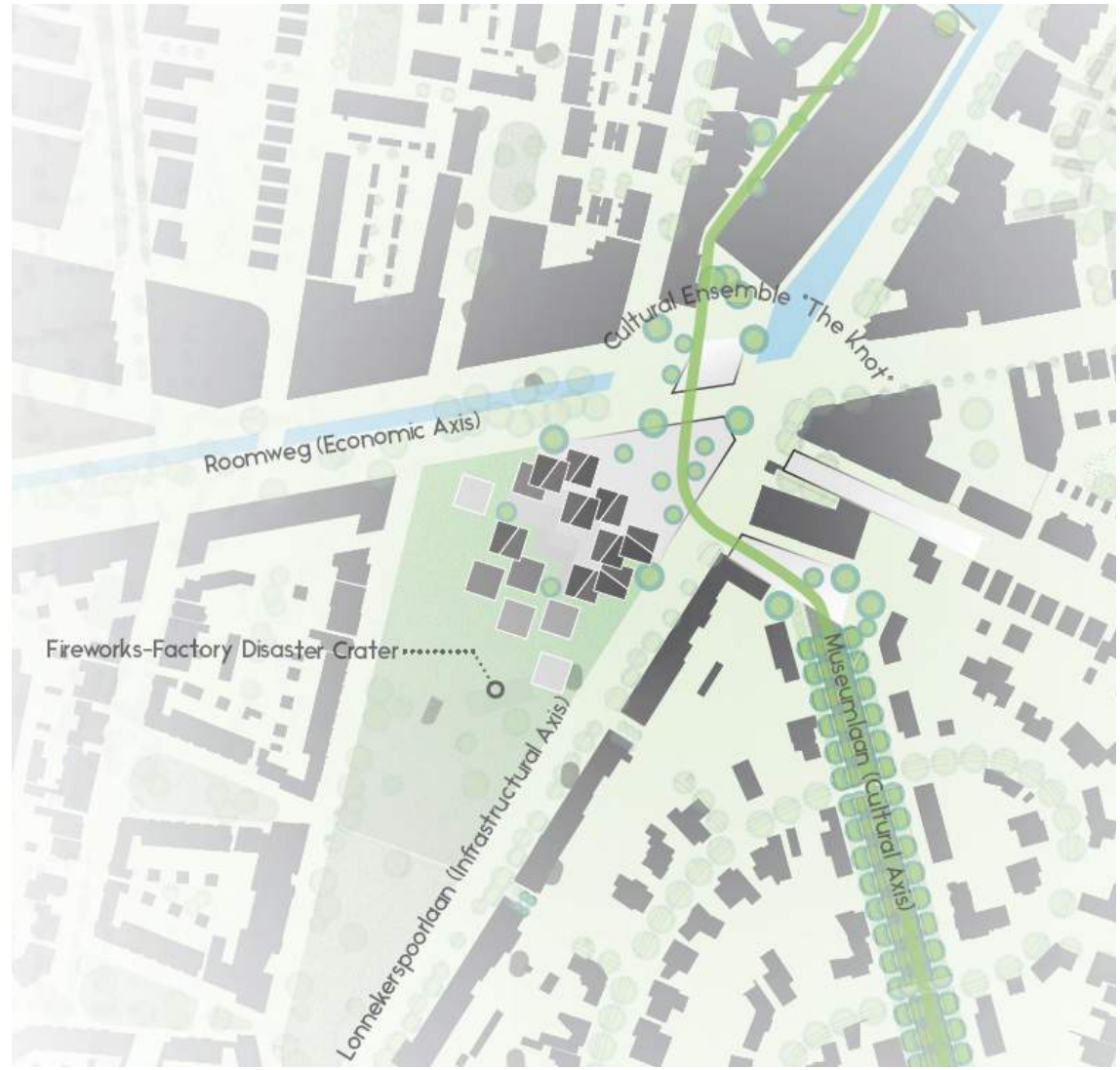


The Cultural Hinge



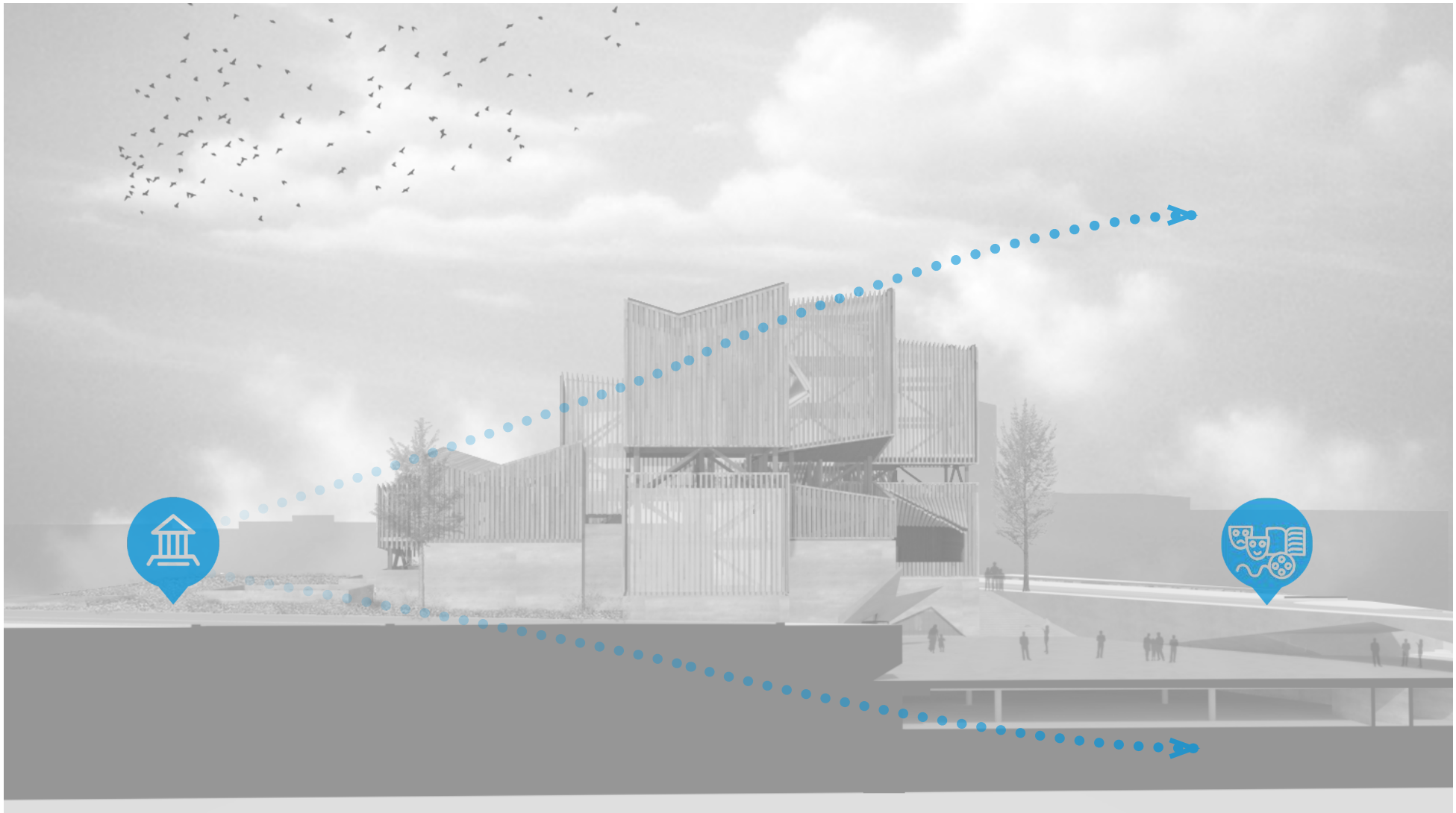
Connecting "the Culture-Mile"





Architectural Juxtaposition

Gradient: Static to Dynamic



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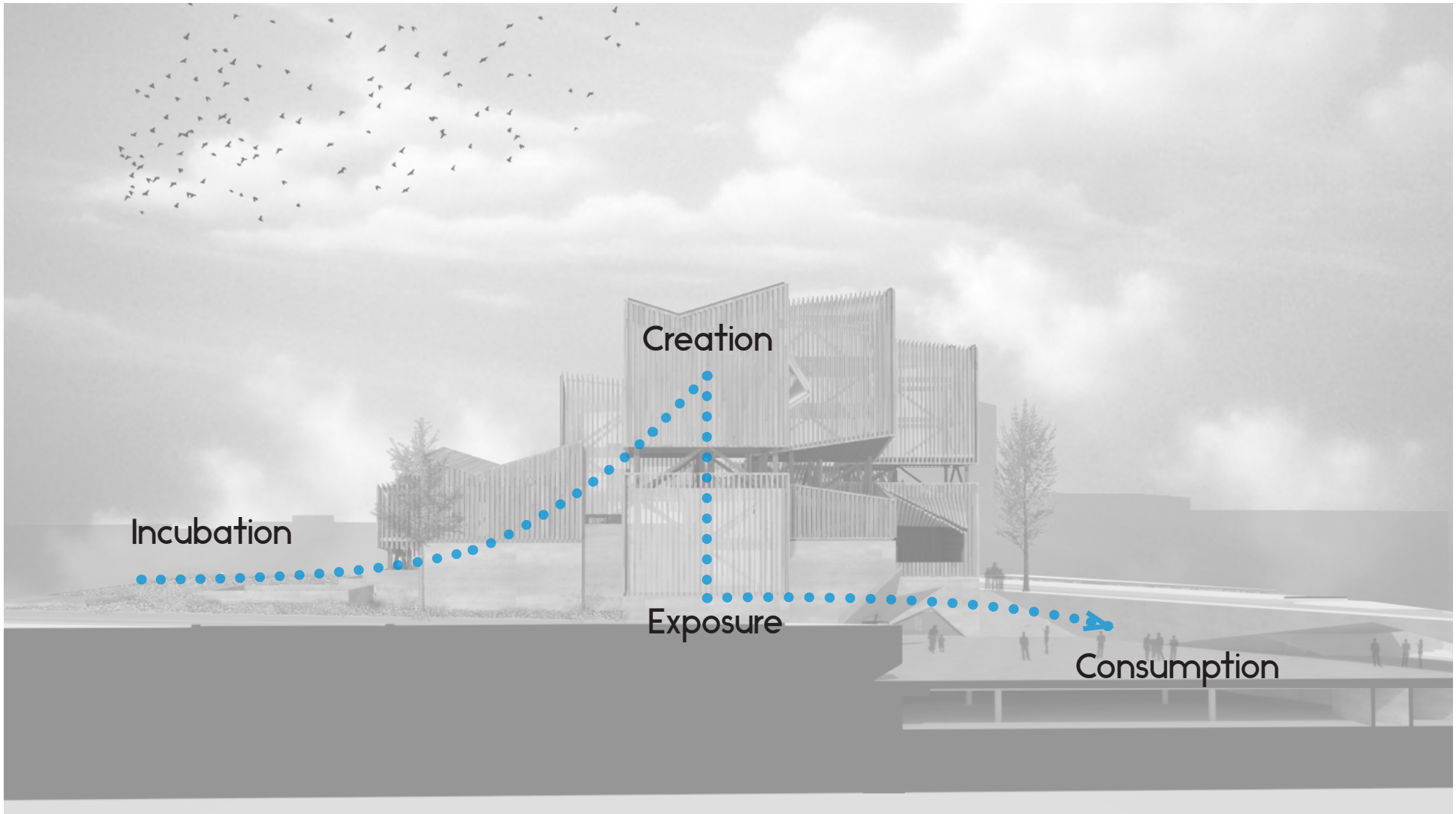
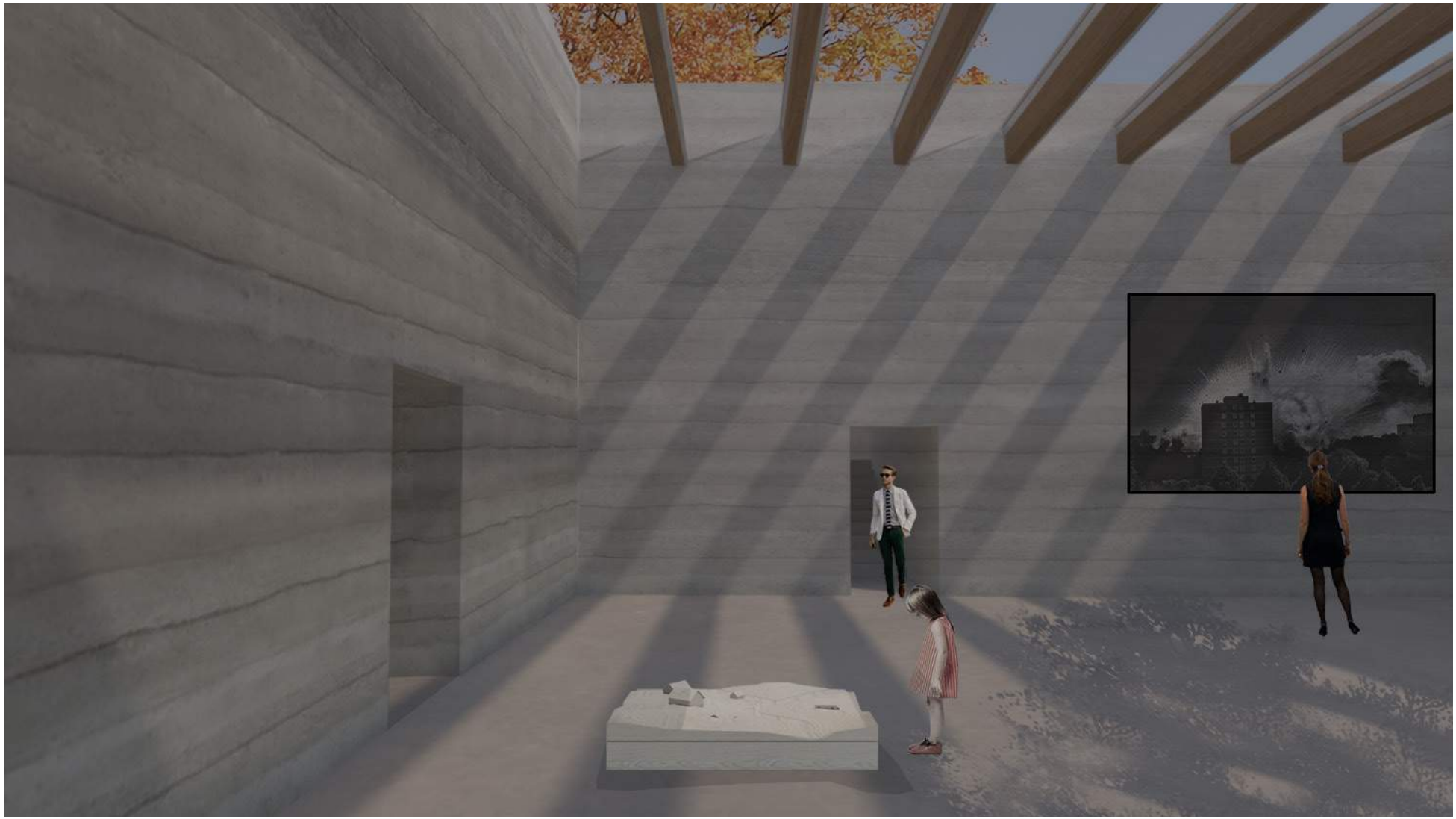
Stages of Creation



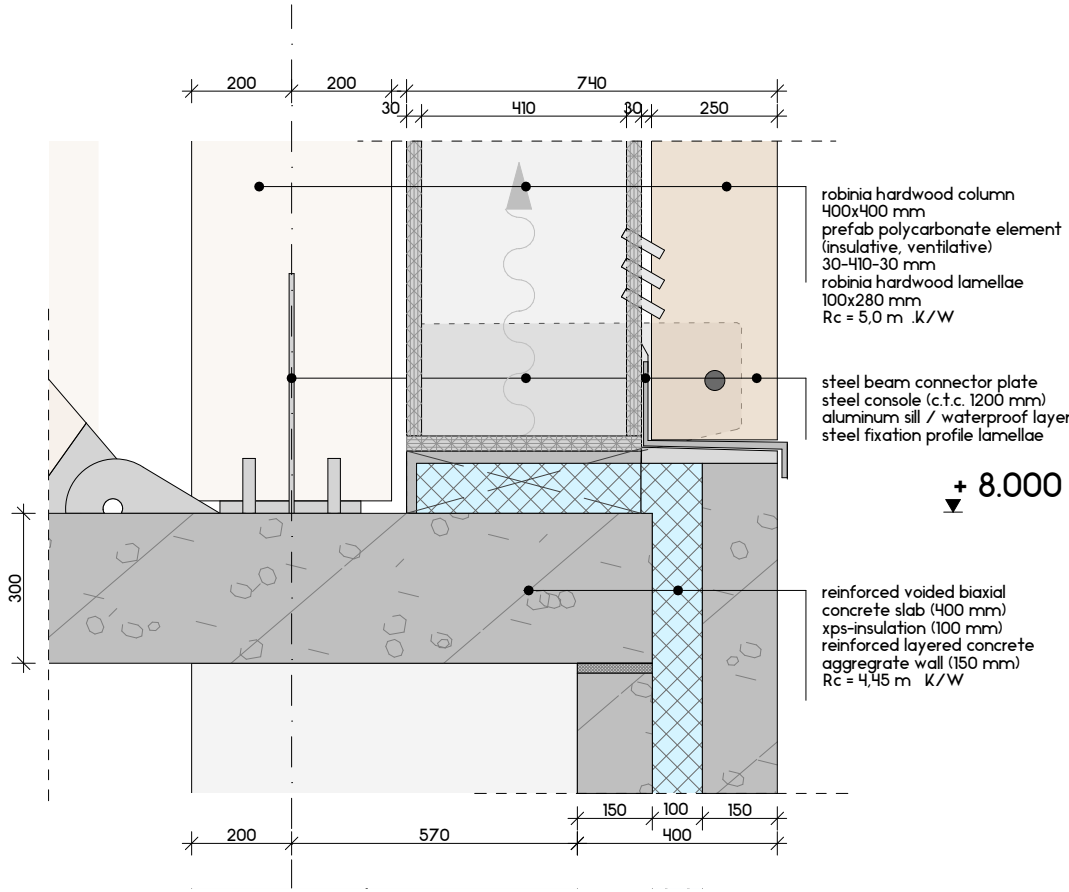
Incubation (Memorial Park)

Exposure: Cultural Courtyard

Exposure: Exhibition Spaces



Exposure: Exhibition Spaces



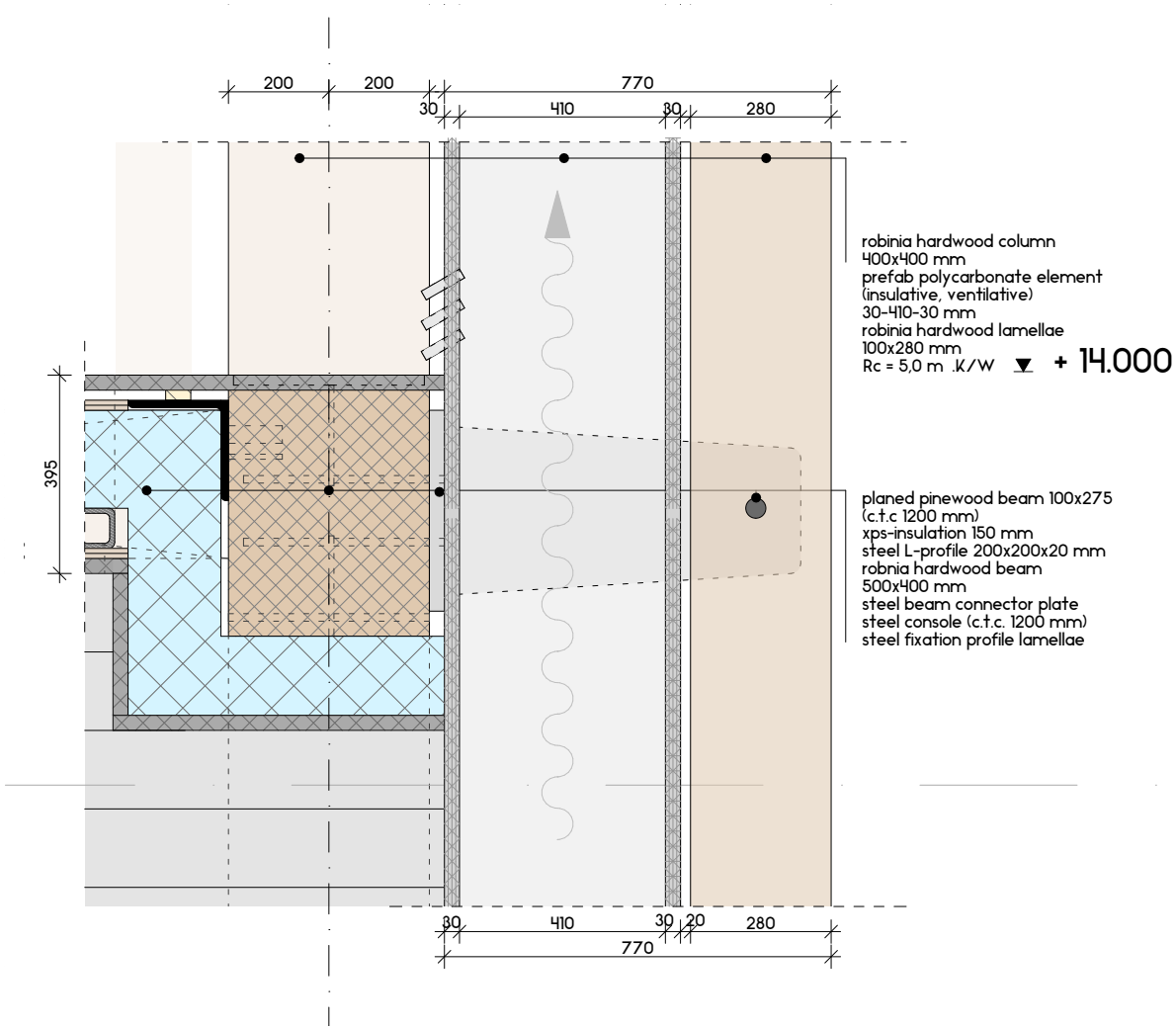
Rammed Concrete Aggregrate

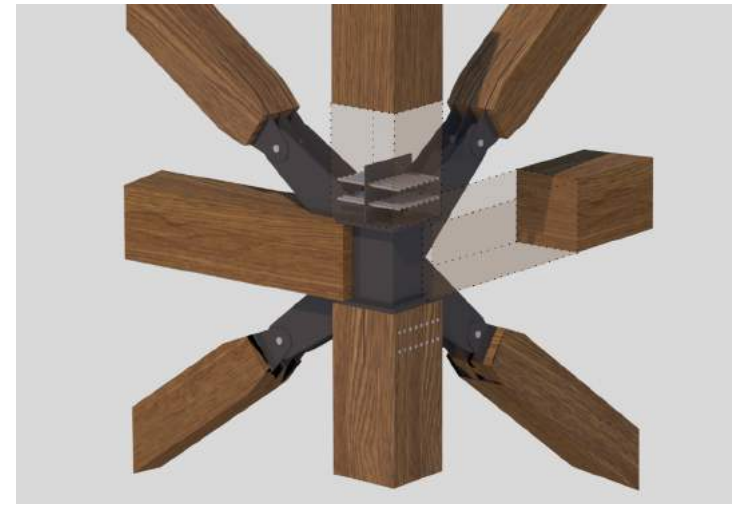
Creation: Urban Farming

Creation: Workshops

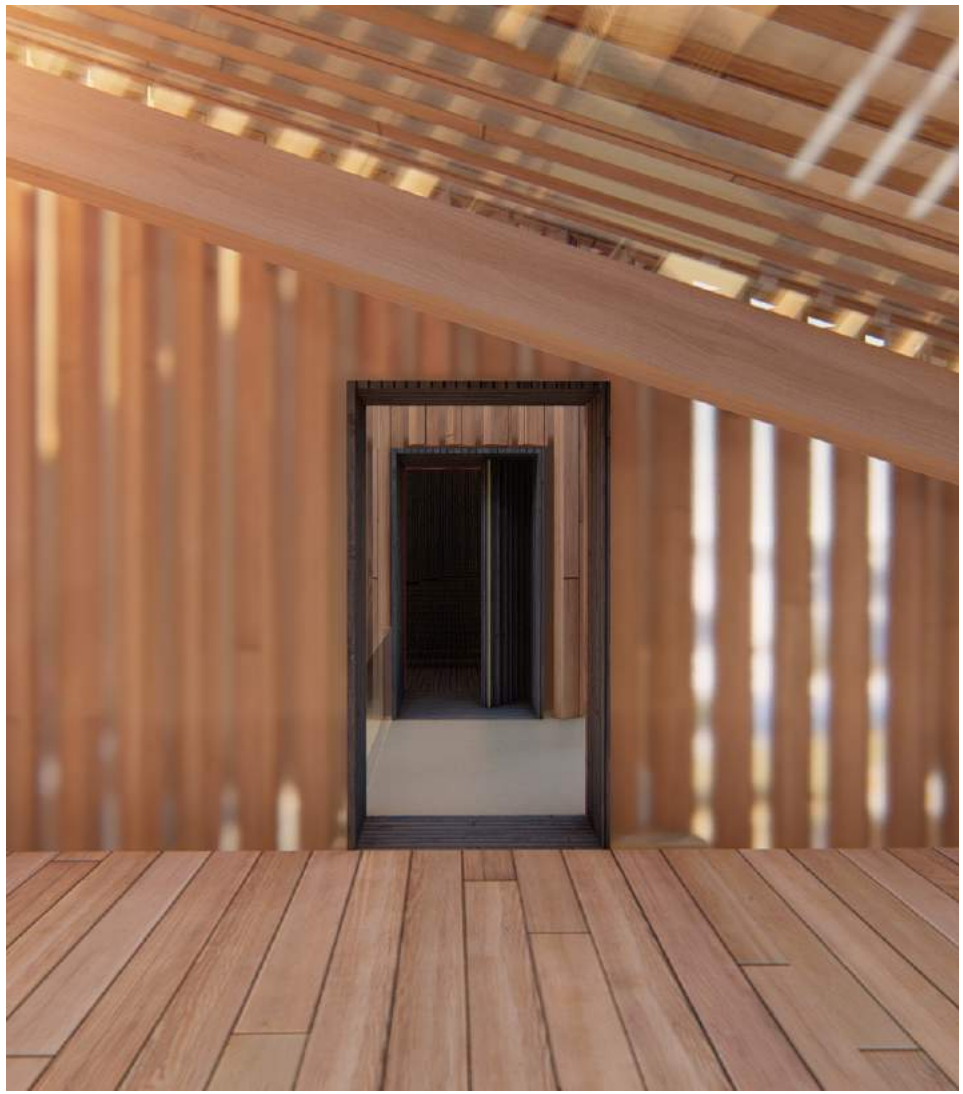
Creation: Workshops

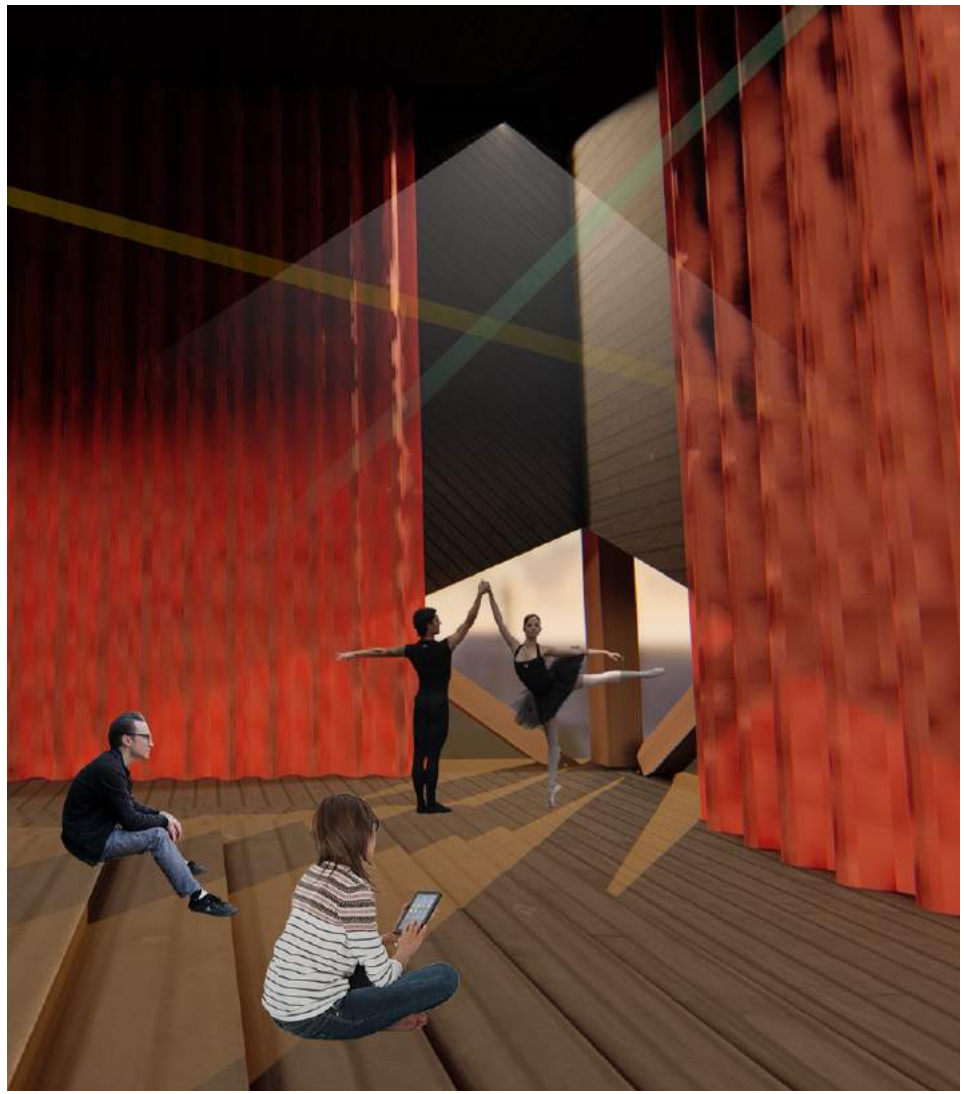
Local Hardwood (Robinia) Structure





Creation: Music-Rooms





Creation: Spillover Spaces

urban resilience

the learning curve

the roombeek re-evaluation

urban redefinition

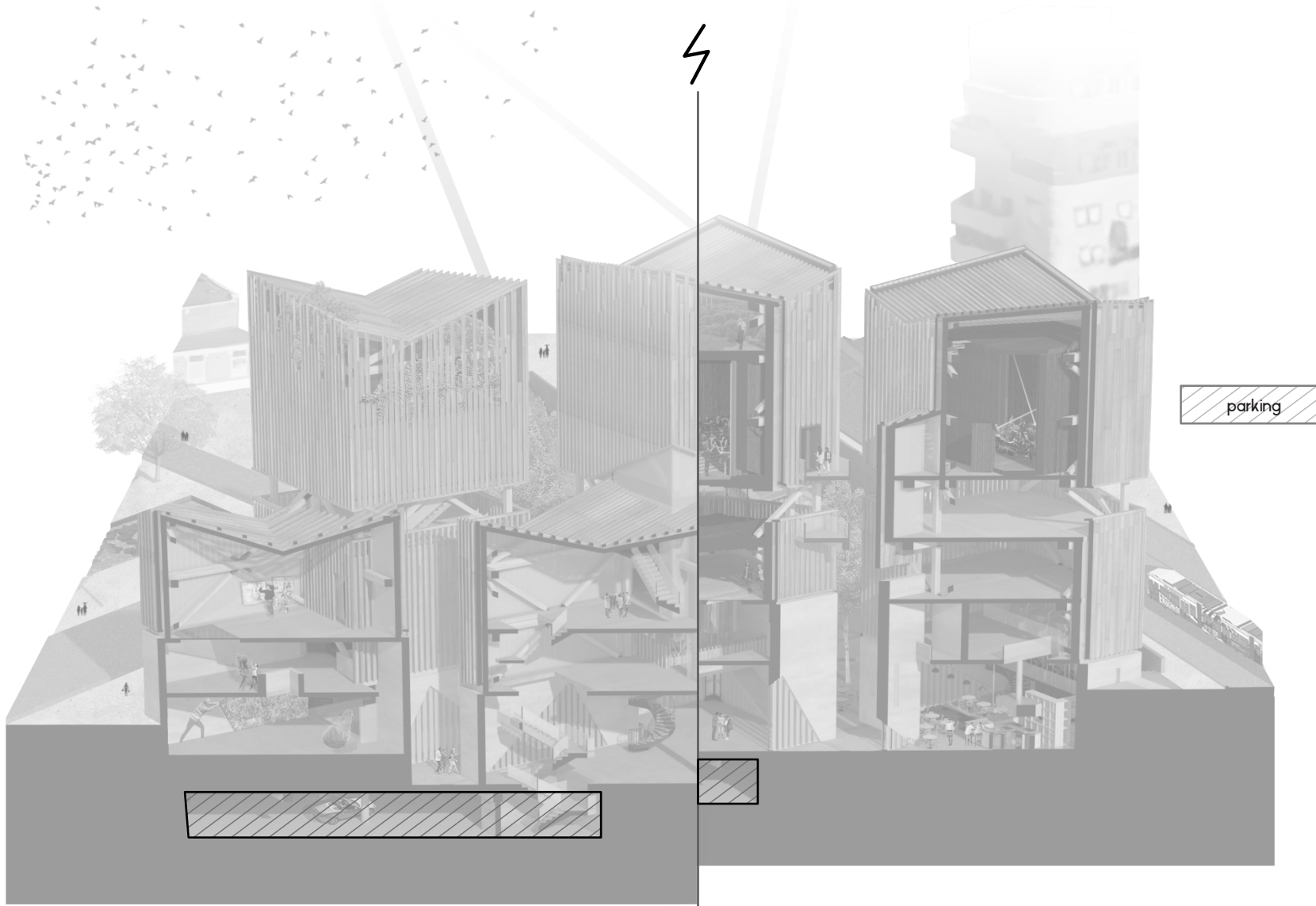
architecture

Consumption: Market Plaza

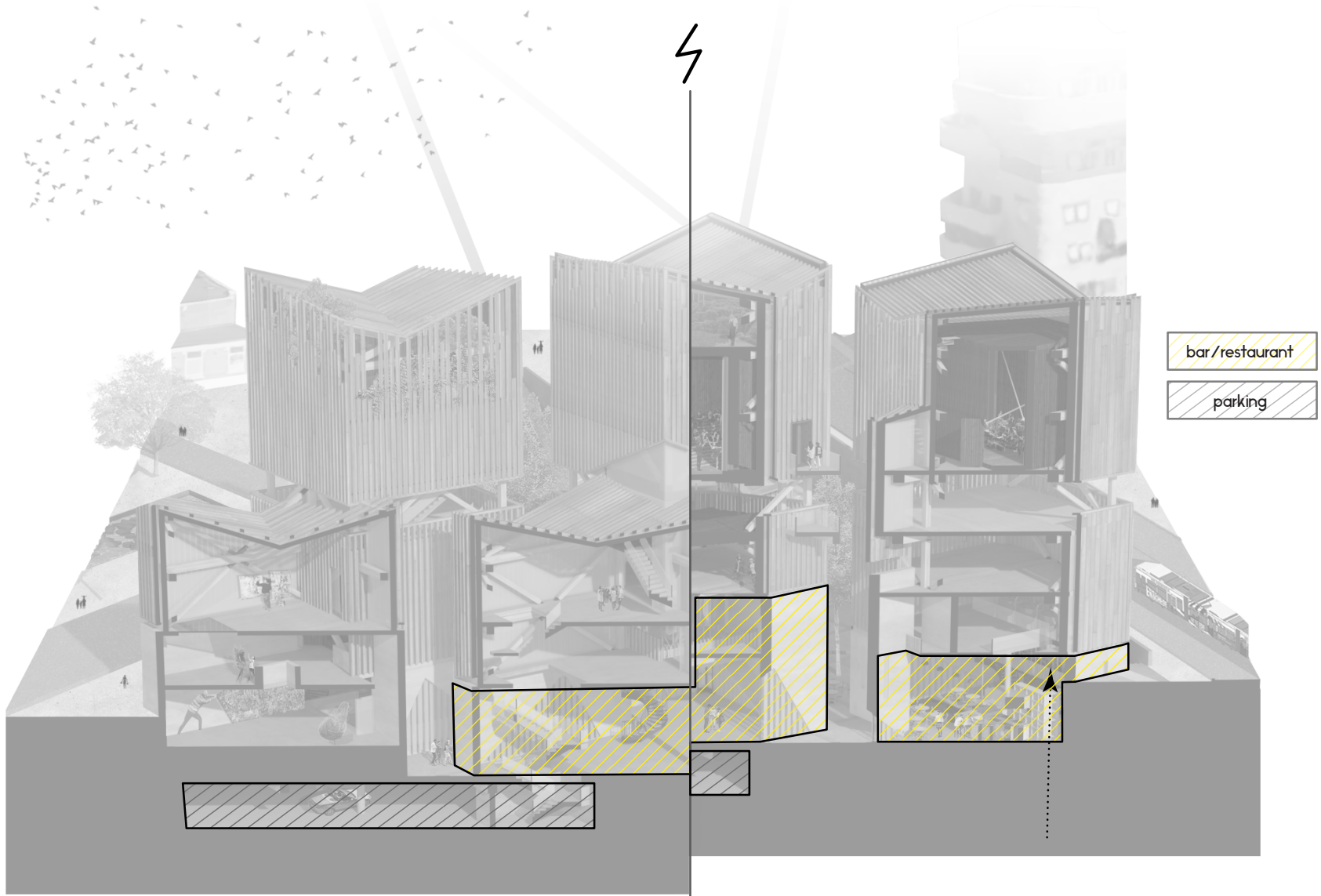
Consumption: Biological Craft-Beer Café

Programme

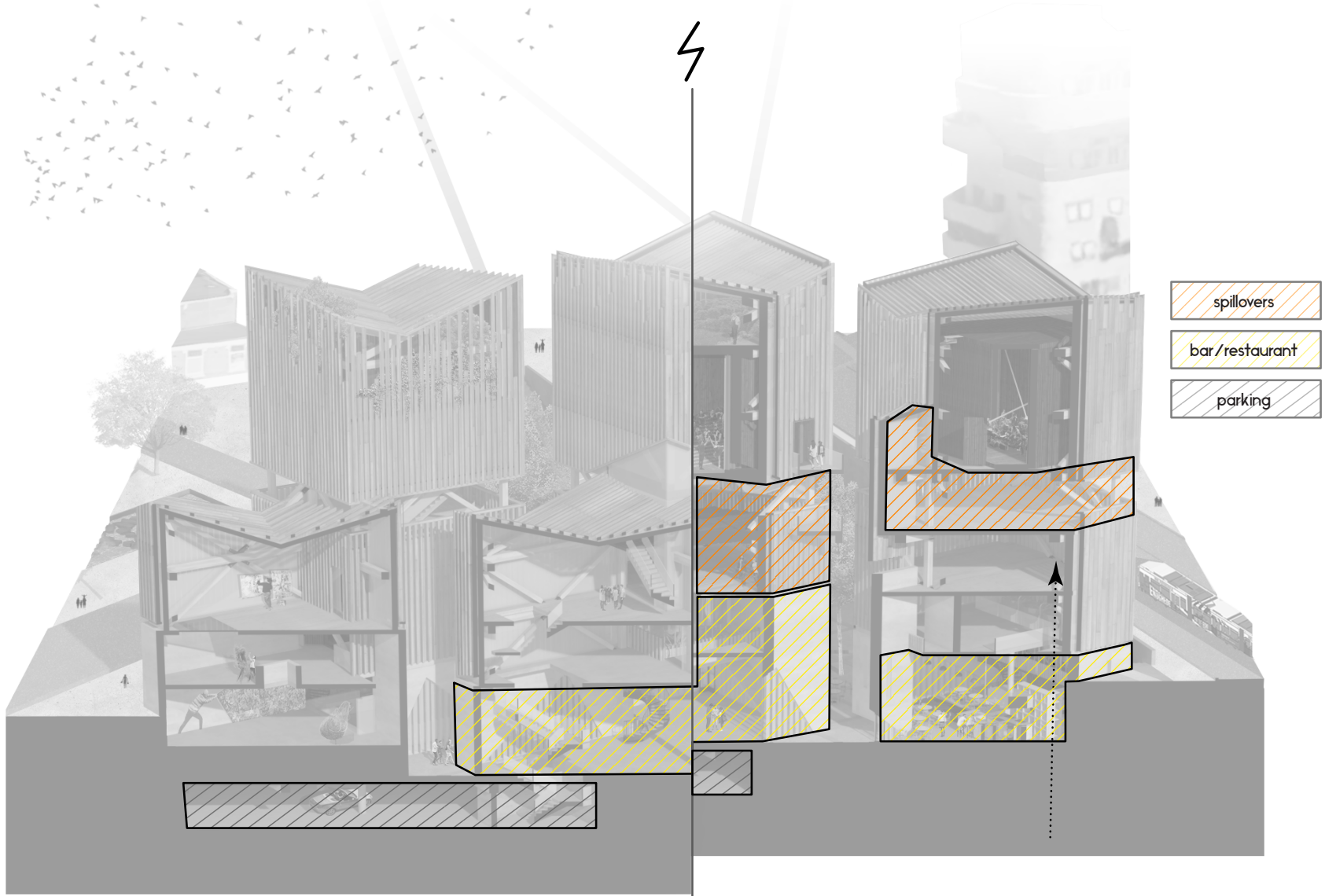
Programme: Parking



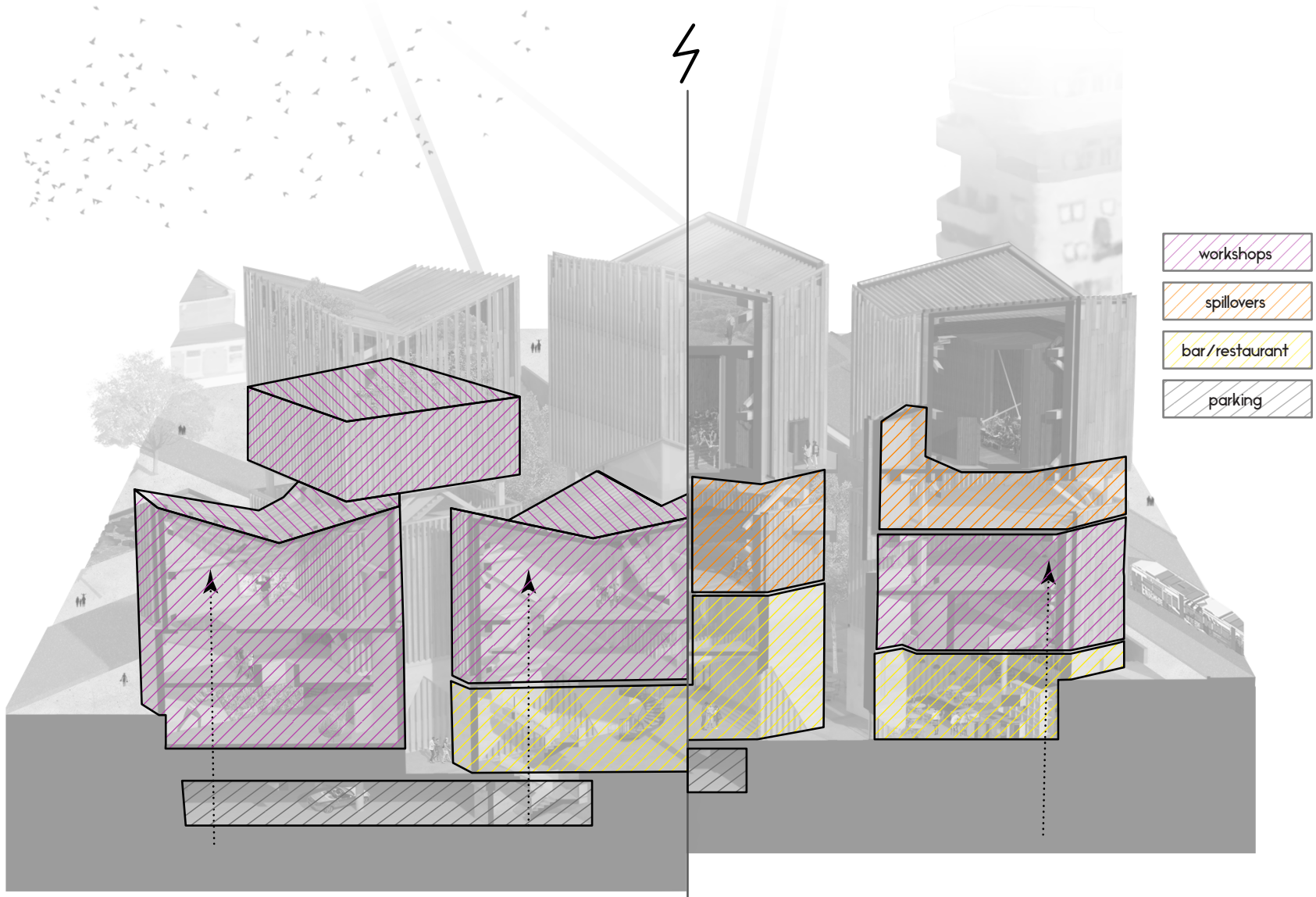
Programme: Bar / Restaurant



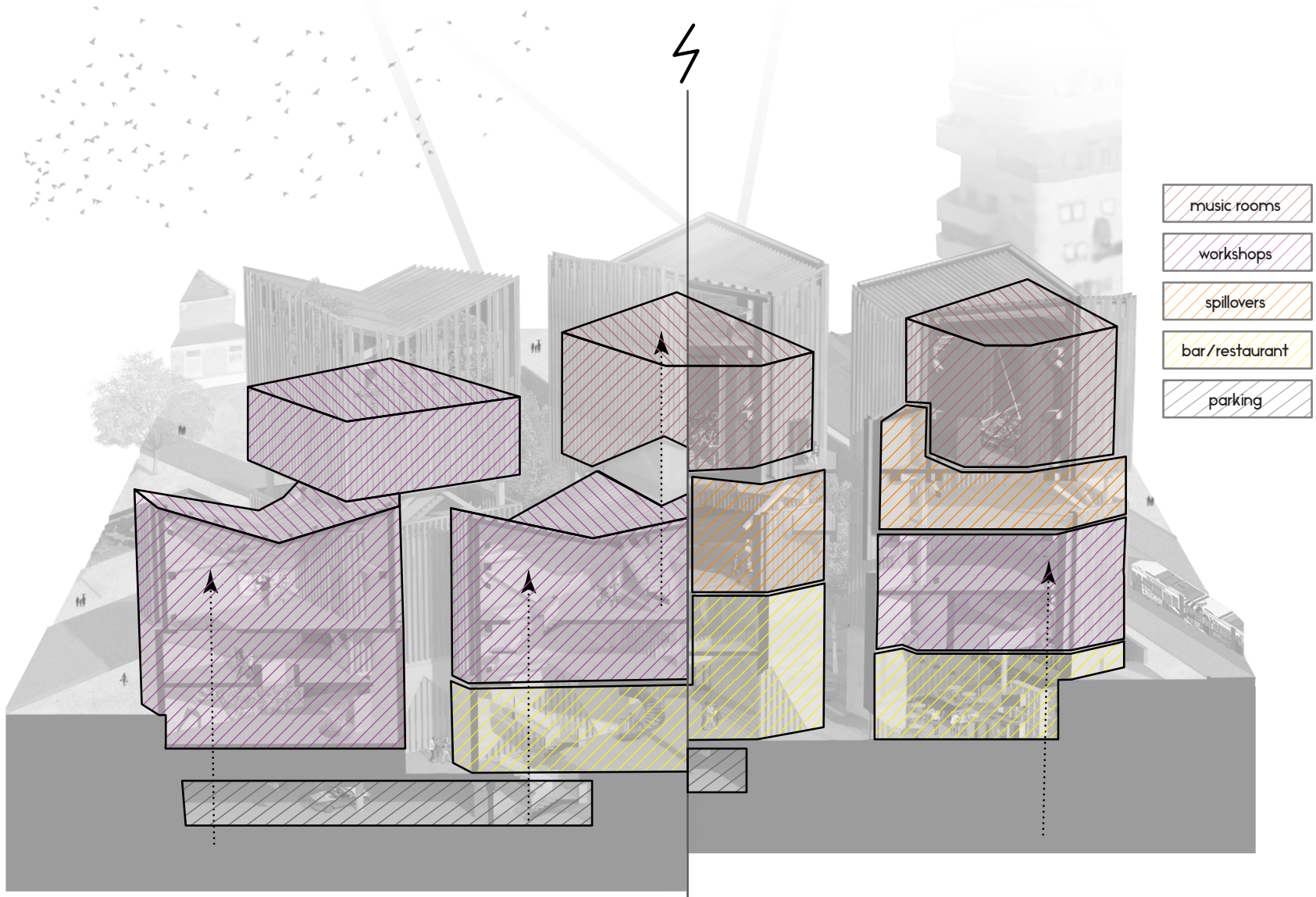
Programme: Spillover Spaces



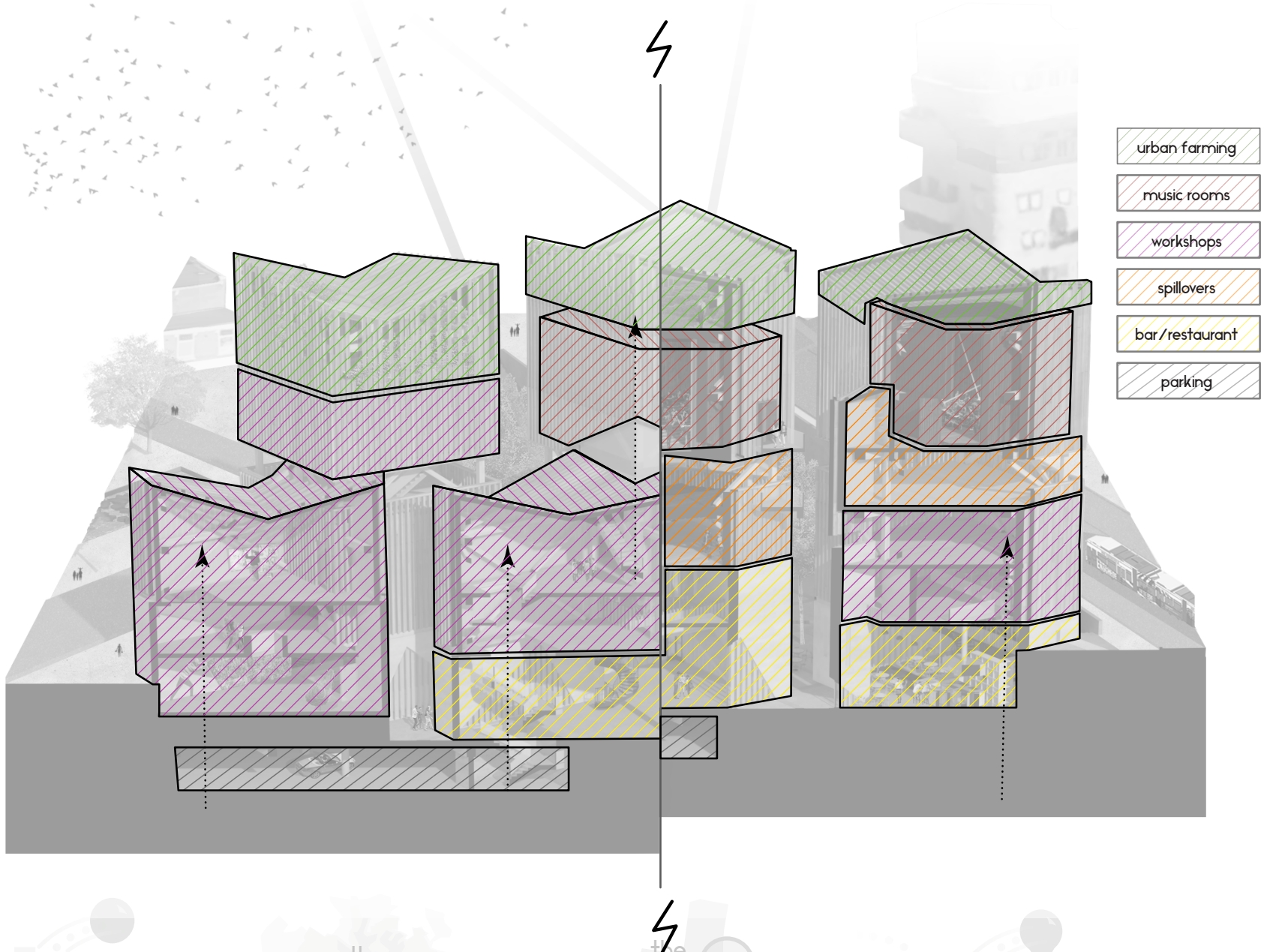
Programme: Workshops



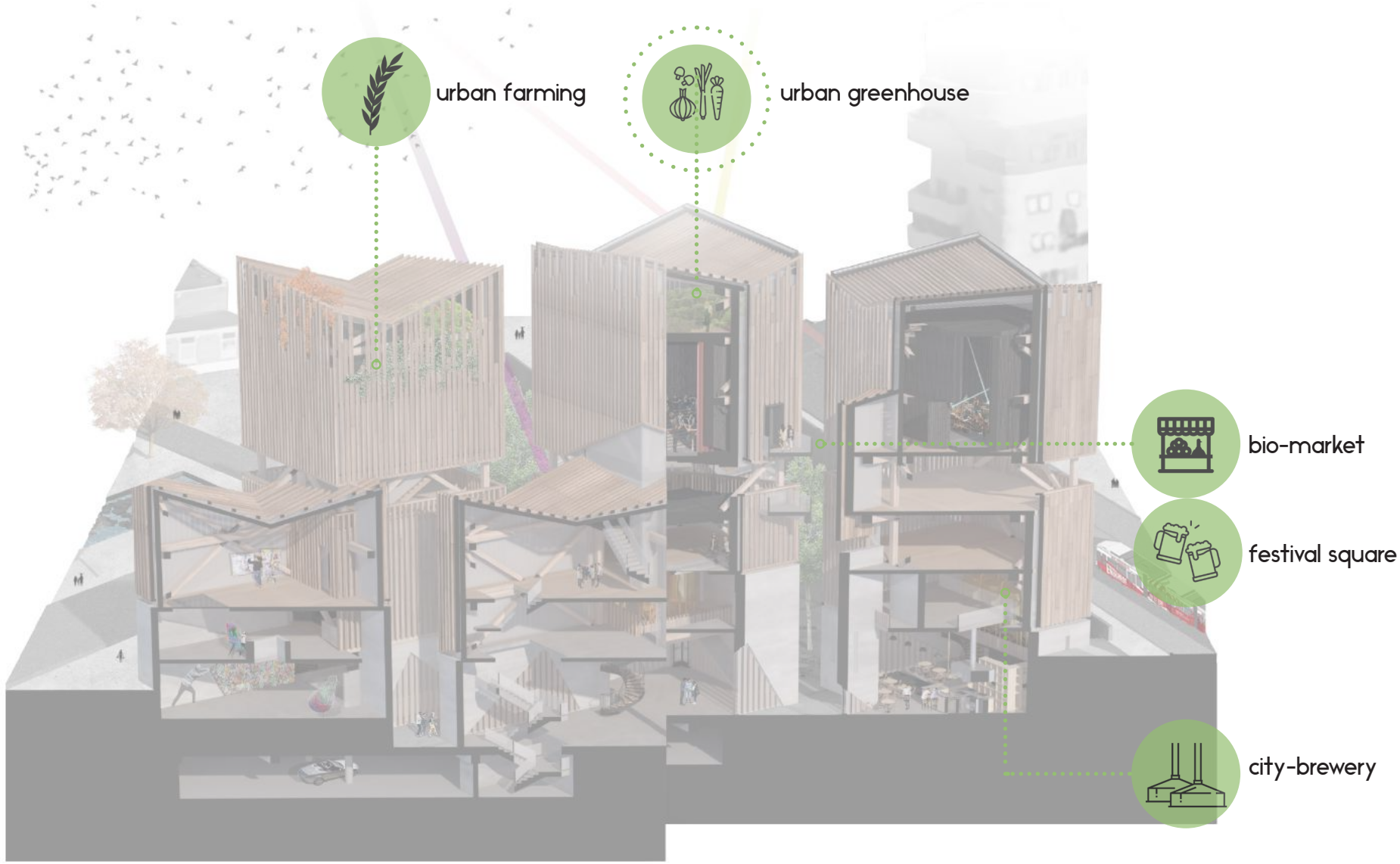
Programme: Music Rooms



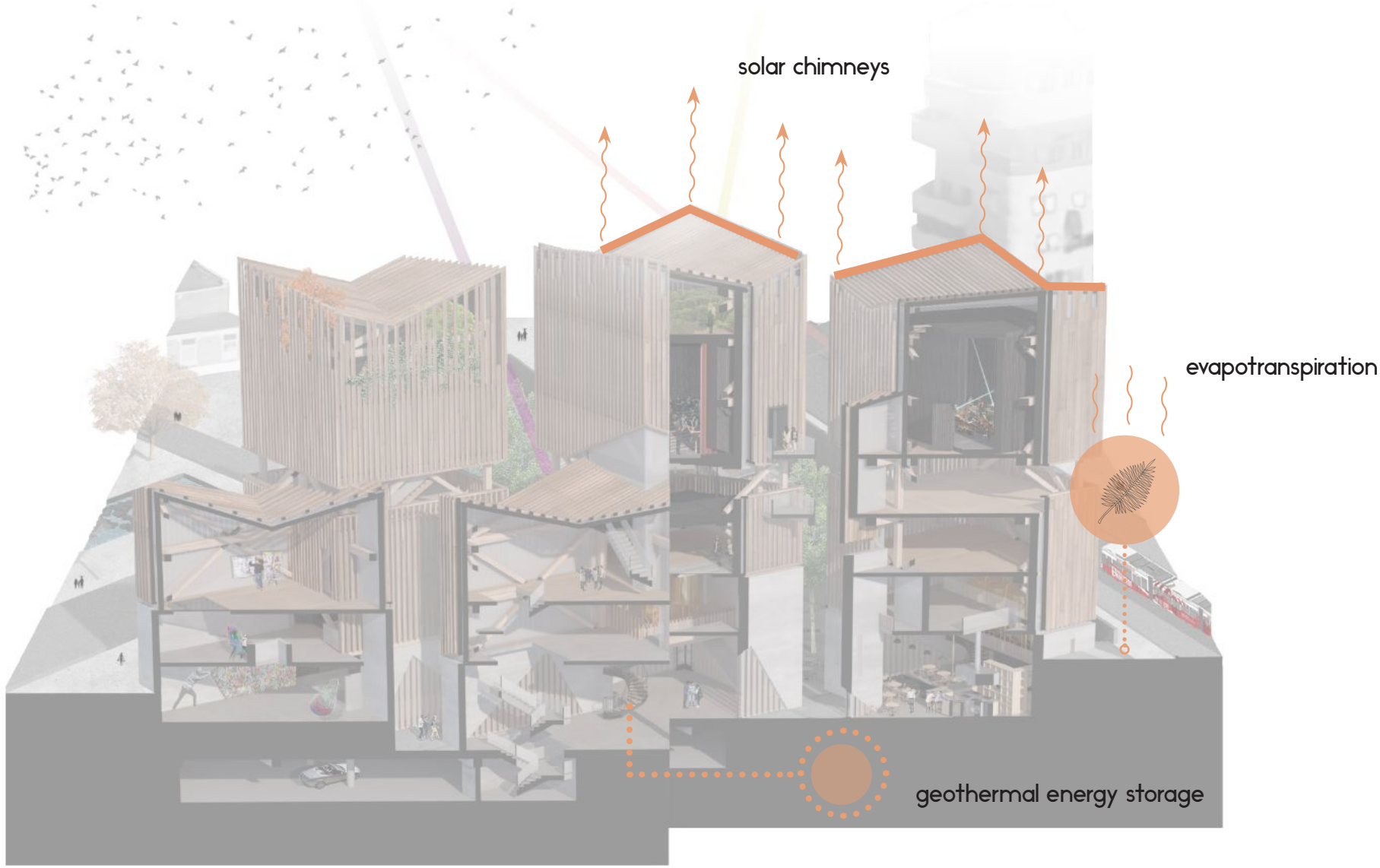
Programme: Urban Farming



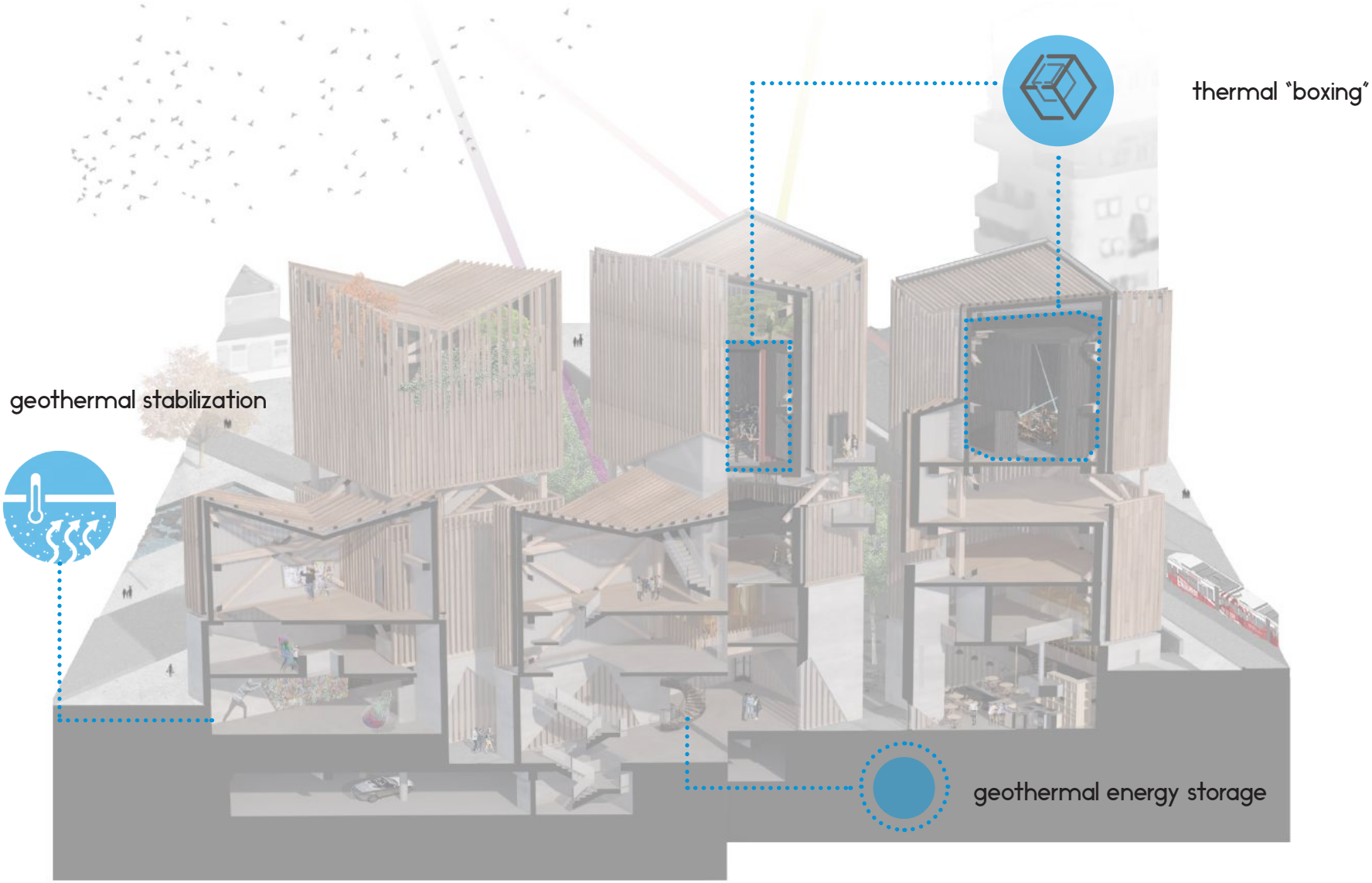
Urban Climate Adaptation: Food



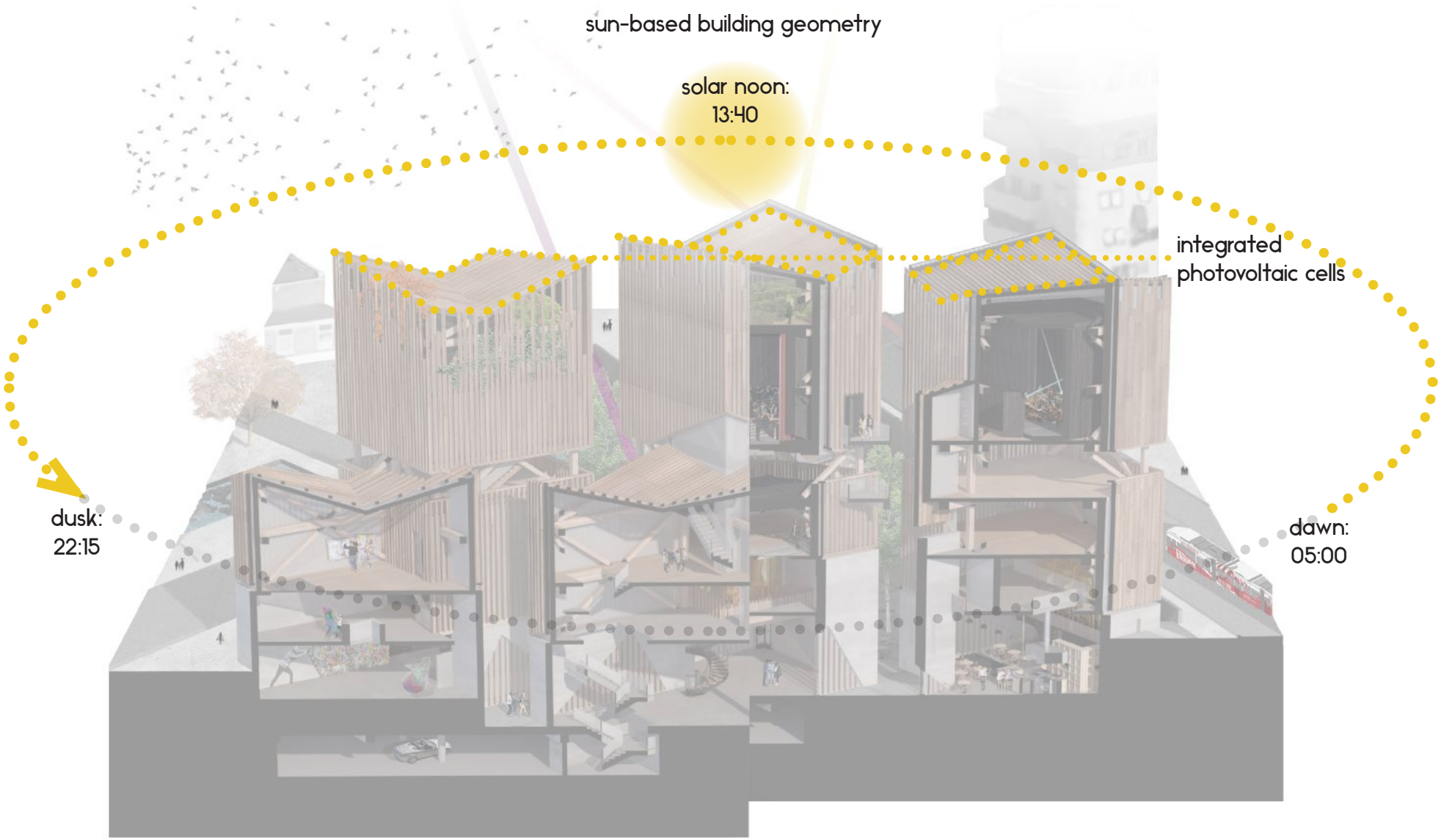
Urban Climate Adaptation: Heat



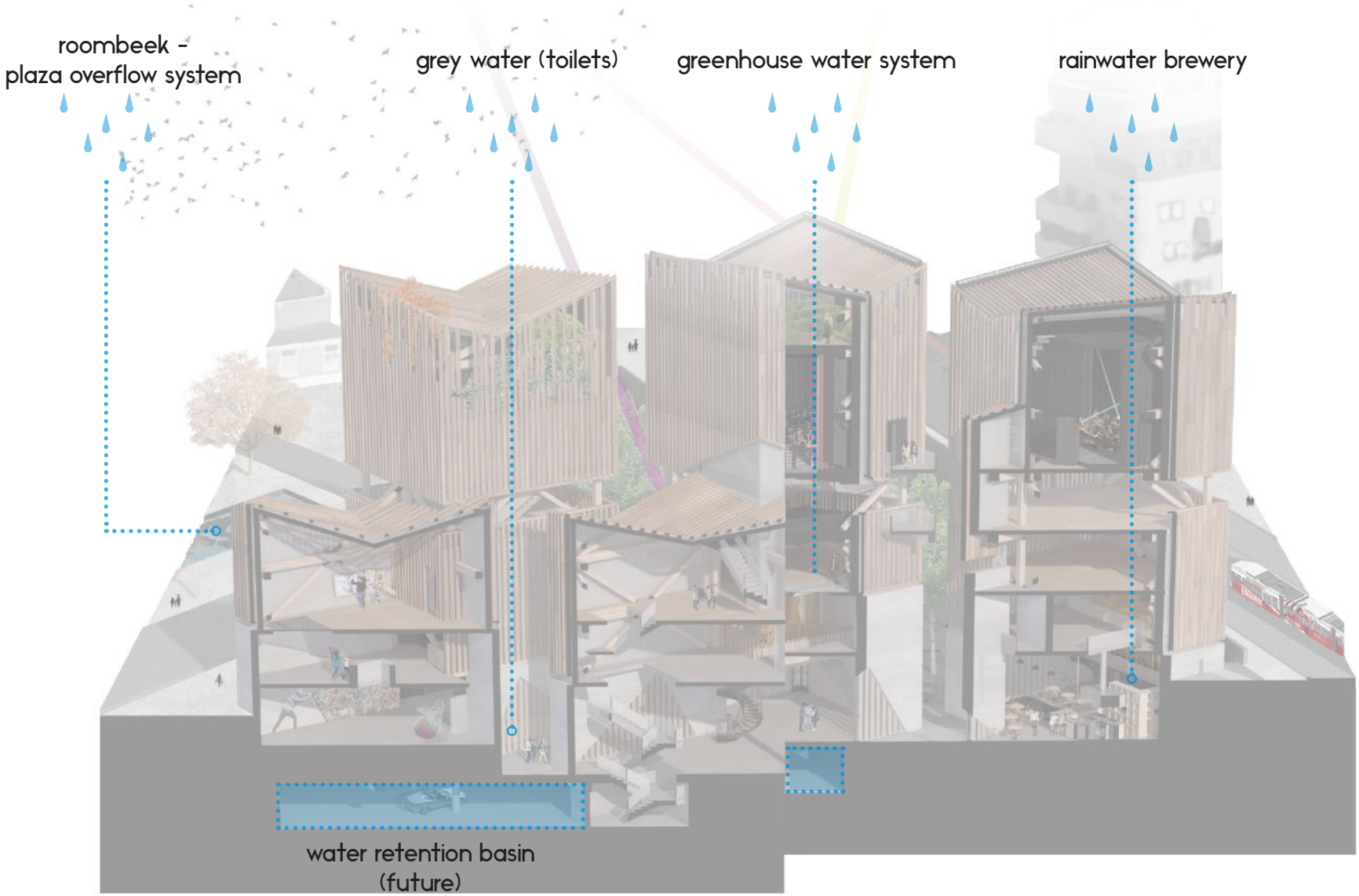
Urban Climate Adaptation: Cold



Urban Climate Adaptation: Energy



Urban Climate Adaptation: Water



Recap: Objectives

Finding direction for future urban redefinition for the city of Enschede

The building as an example for urban resilience.

Dictated by the requirements of the future.

Direction based on requirements of place and time.

Building for a resilient future.

THANK YOU