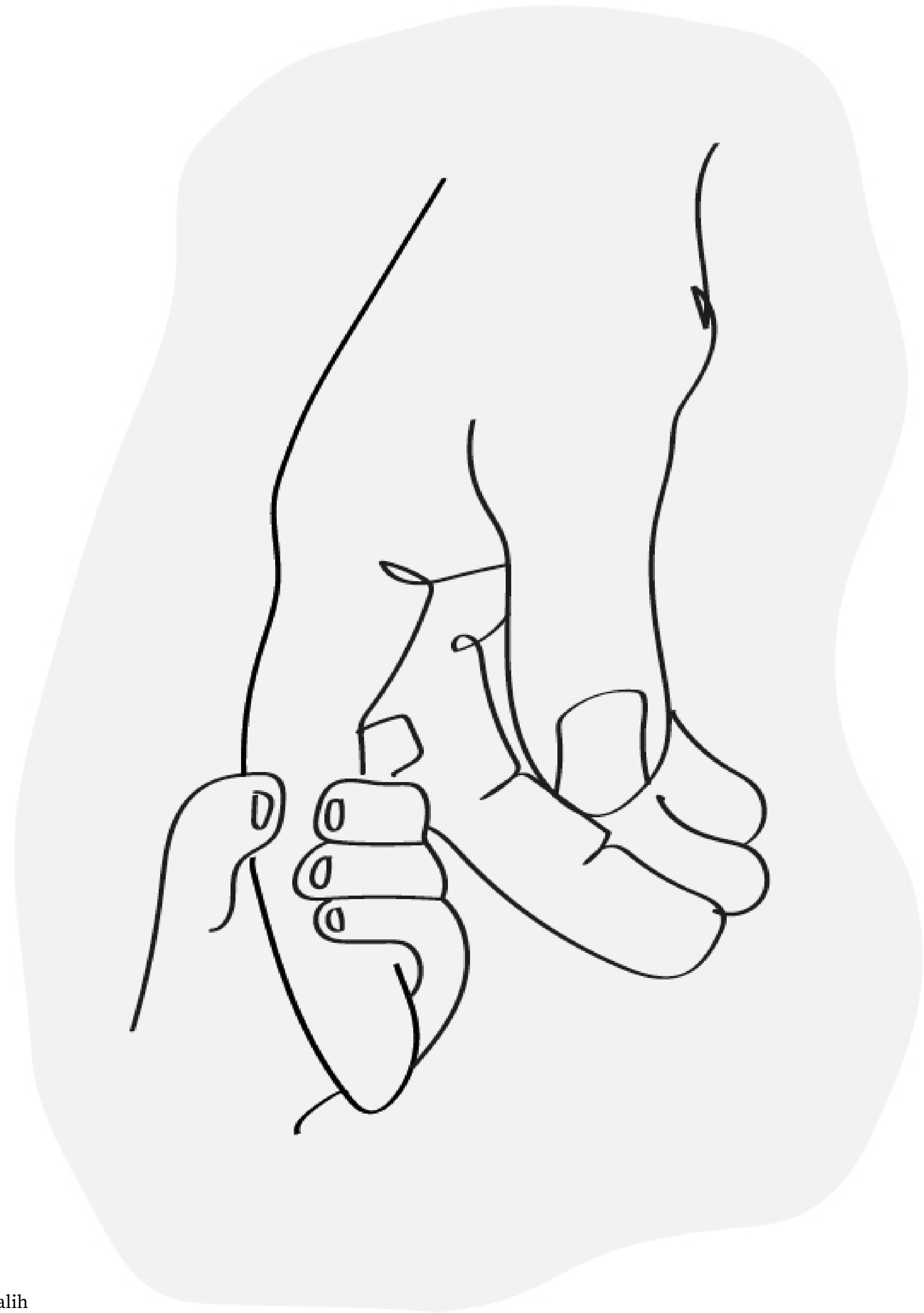


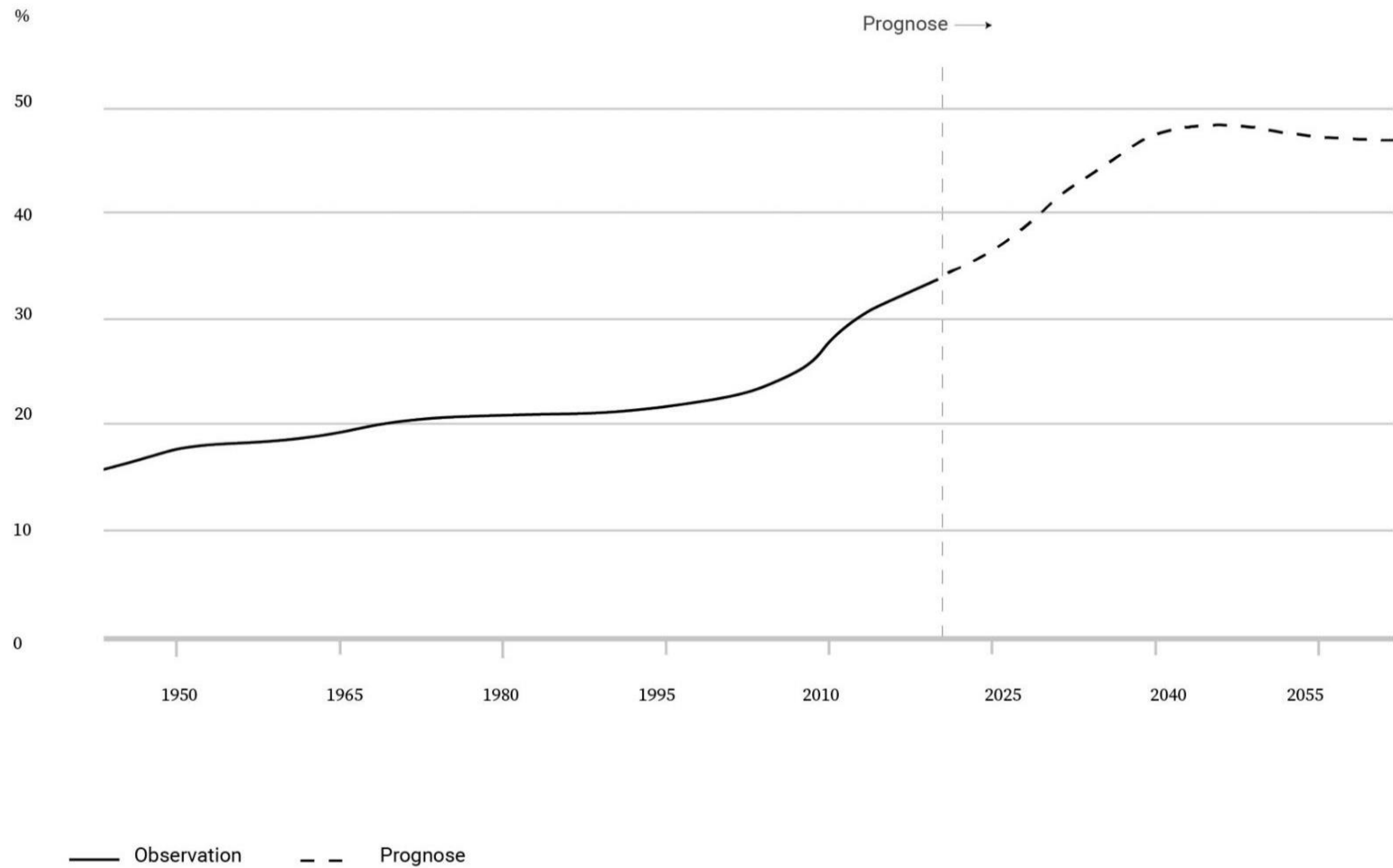


A Caring Place

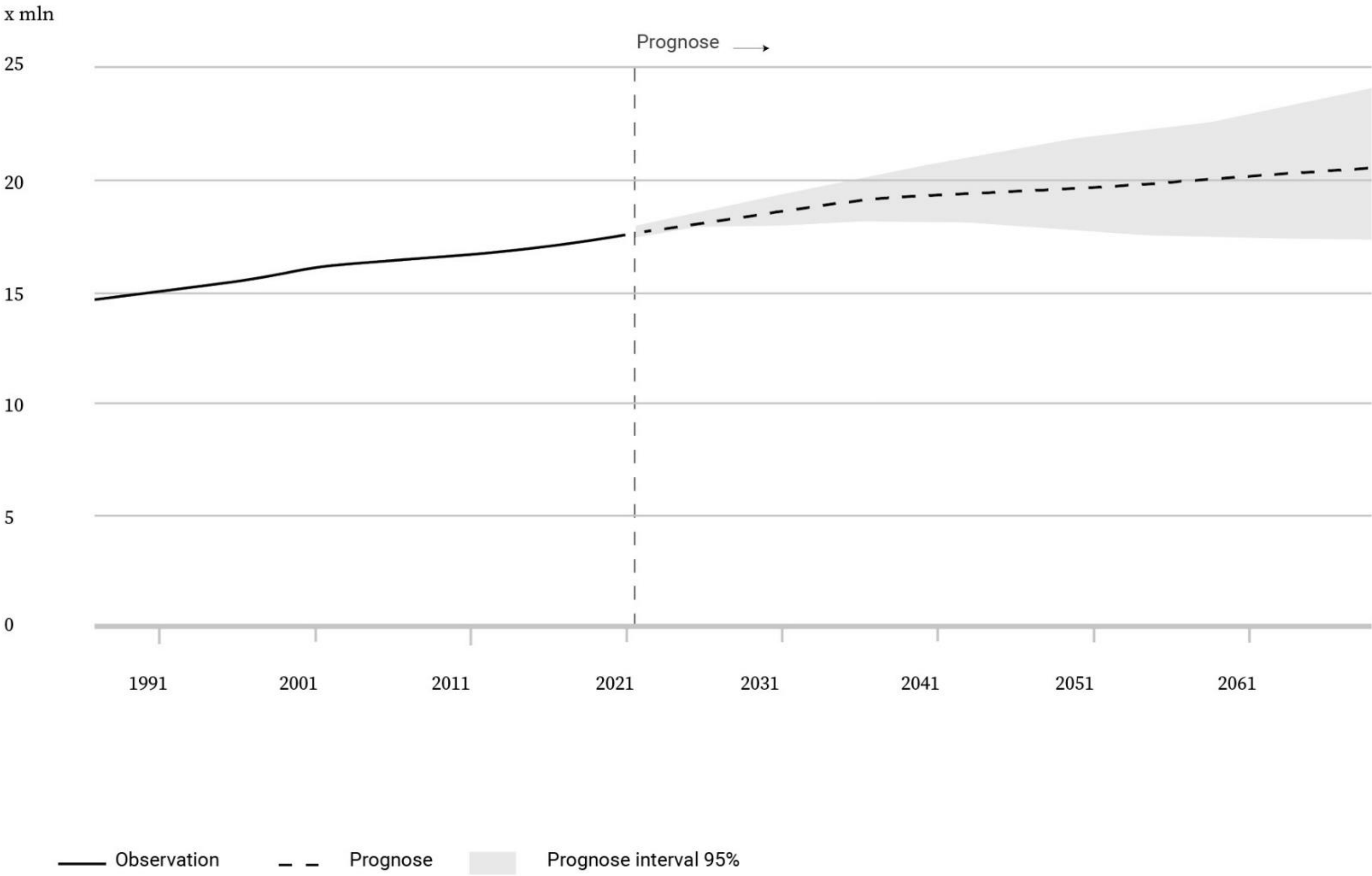
The Faculty of Architecture at
Delft University of Technology

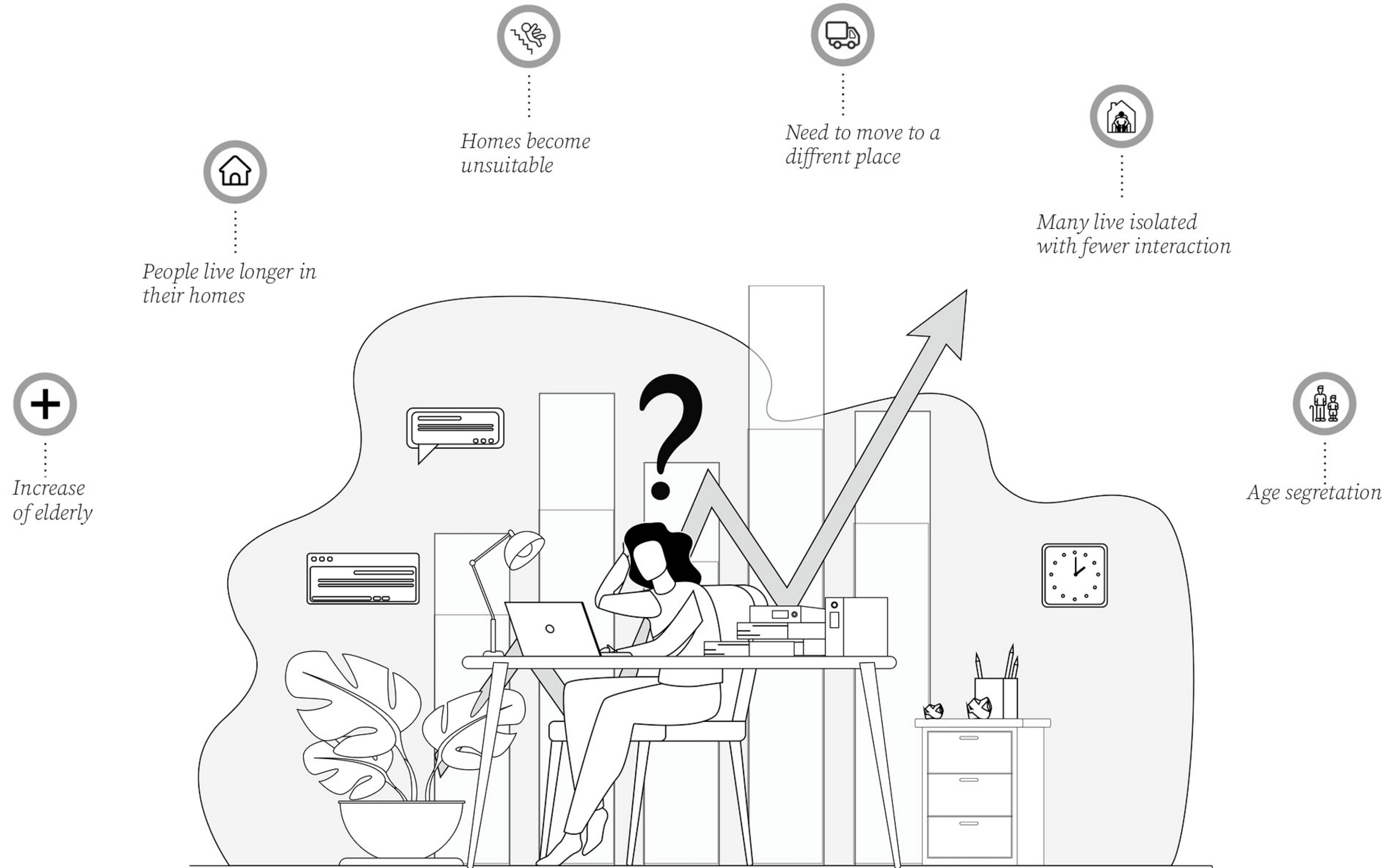
Roos Salih
5005191

Dutch population 65+



Dutch population growth





Intergenerational Relationship



Developing a 'Caring Place'.

To create a residential building where one may live throughout many life stages while being valued as an individual.



Literature



Generational Intelligence



Nieuwe generatie stadskinderen



Increasingly Older Population



Ontwerp voor Ontmoeten

Case study's



BIGyard by Zanderroth Architekten



The Architect by Levs Architecten



Vindmøllebakken by Helen & Hard

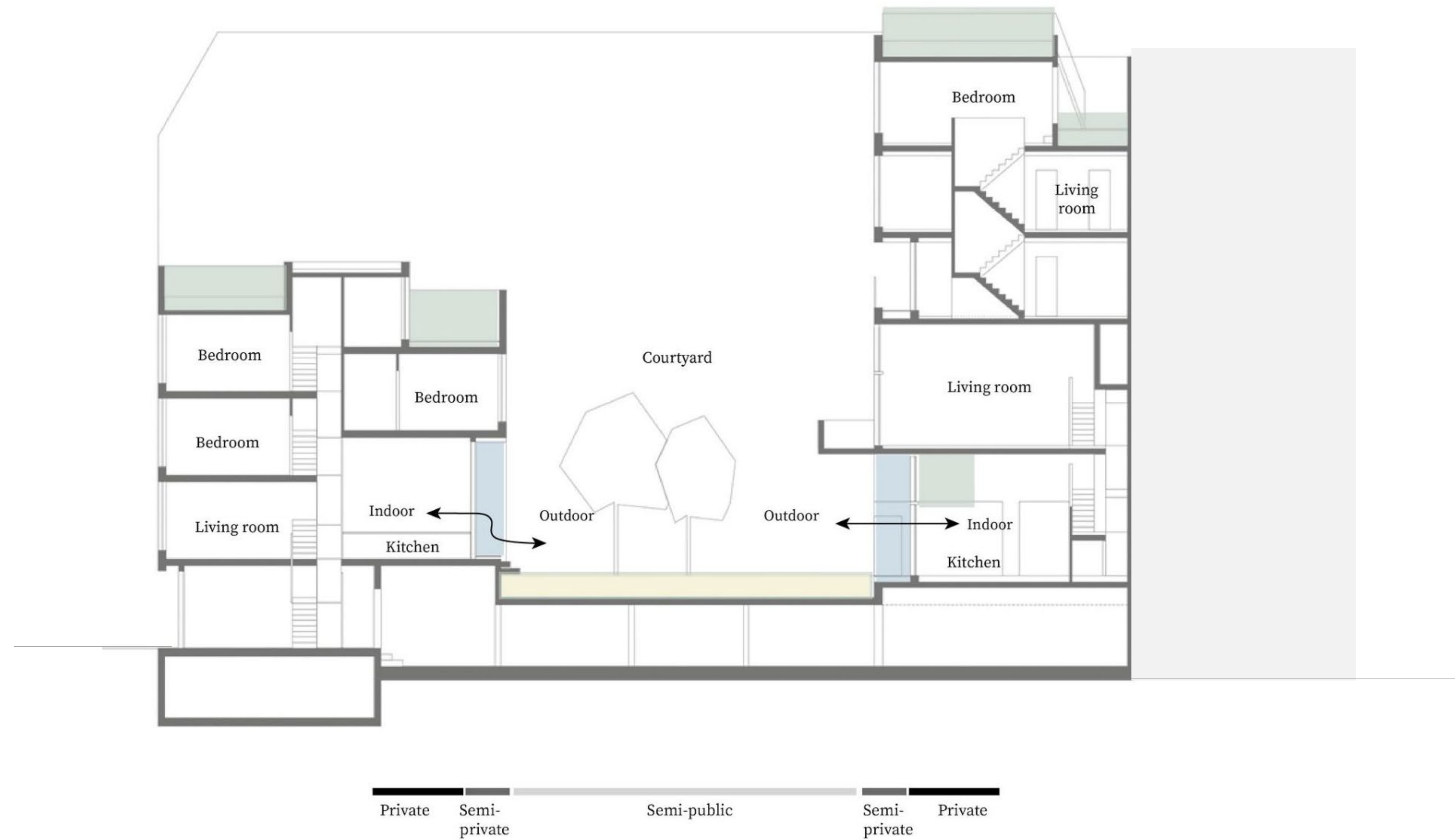


STA | zwei+plus by Trans_cityTC

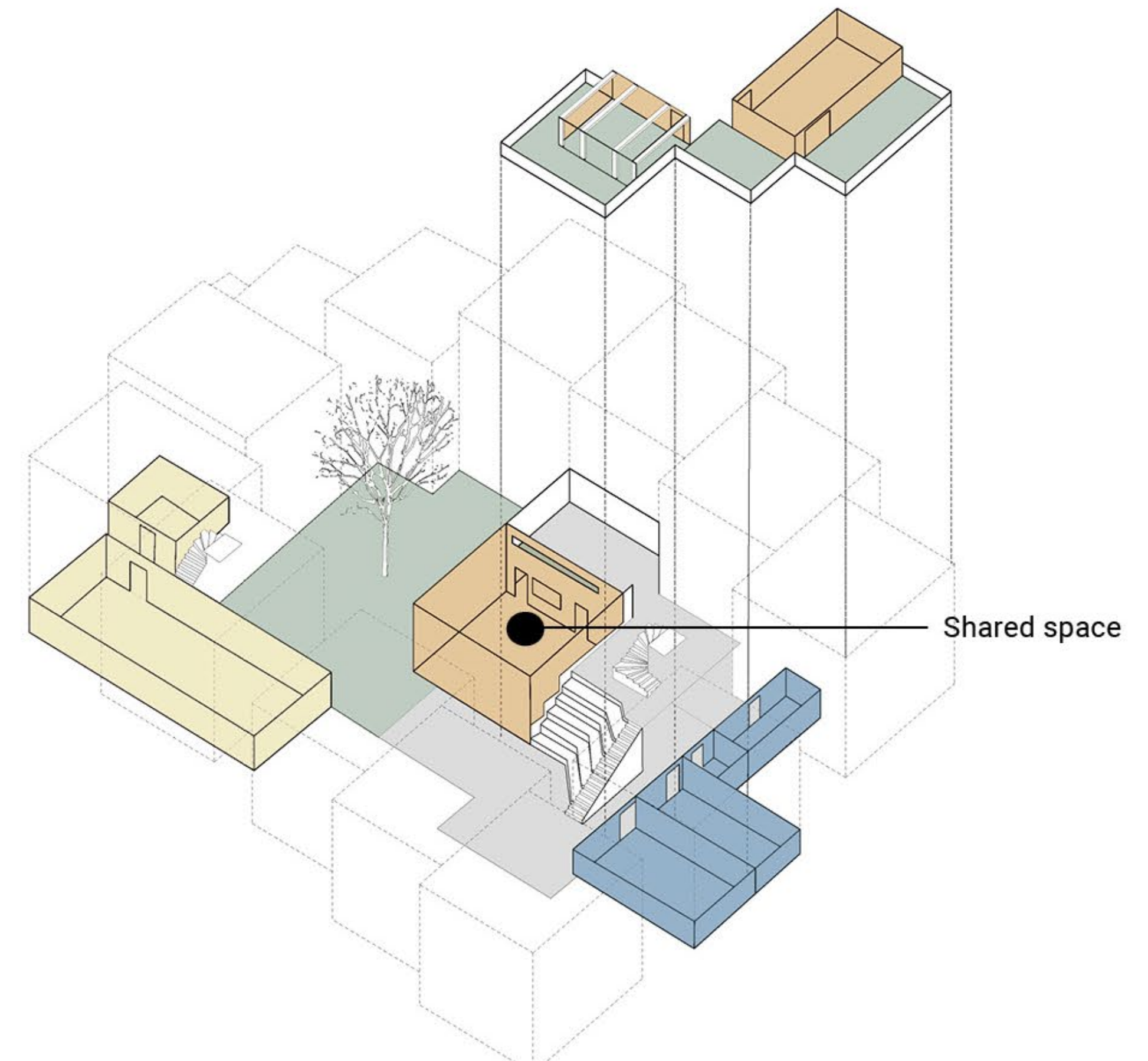
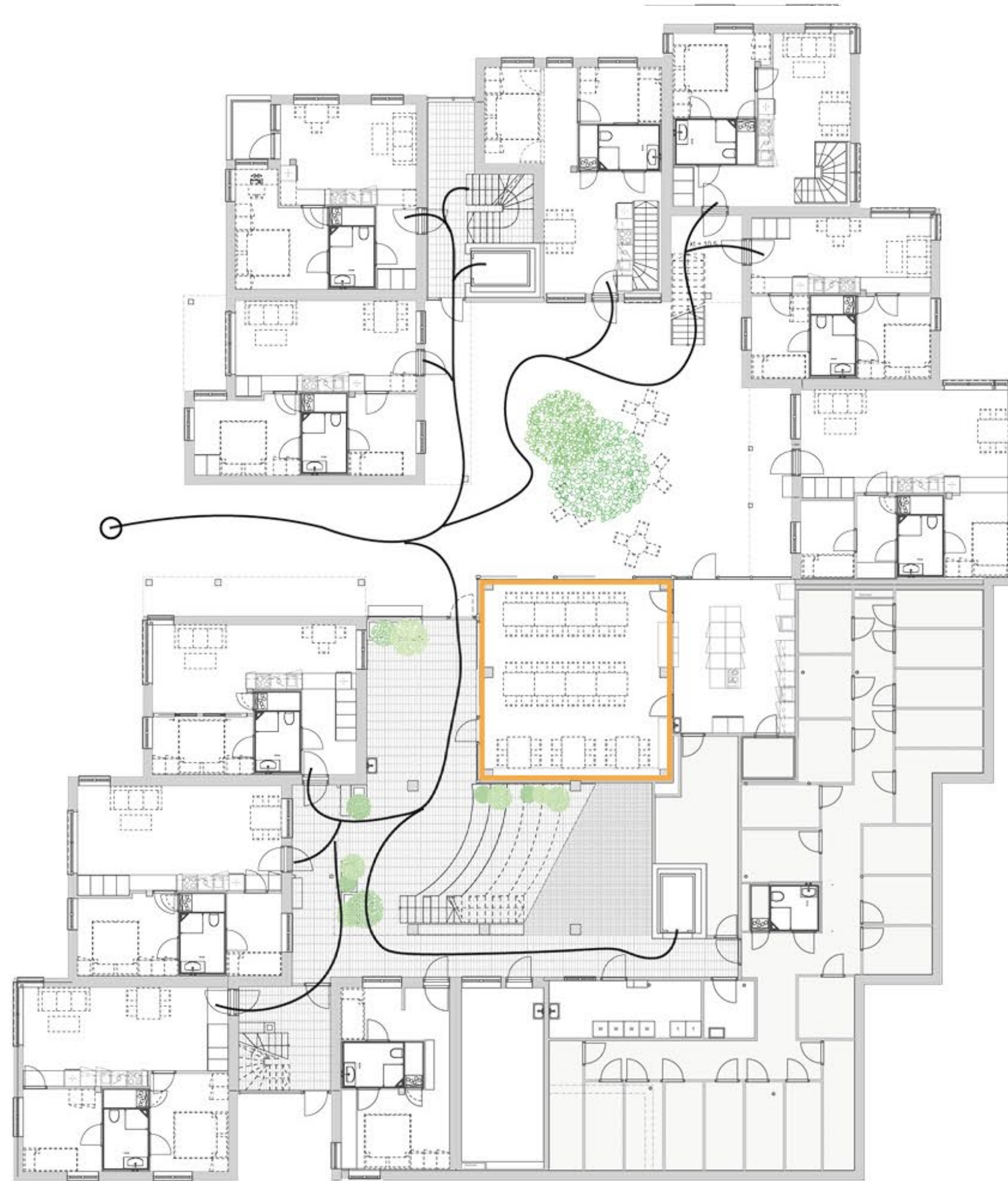
Narrative biographic interviews

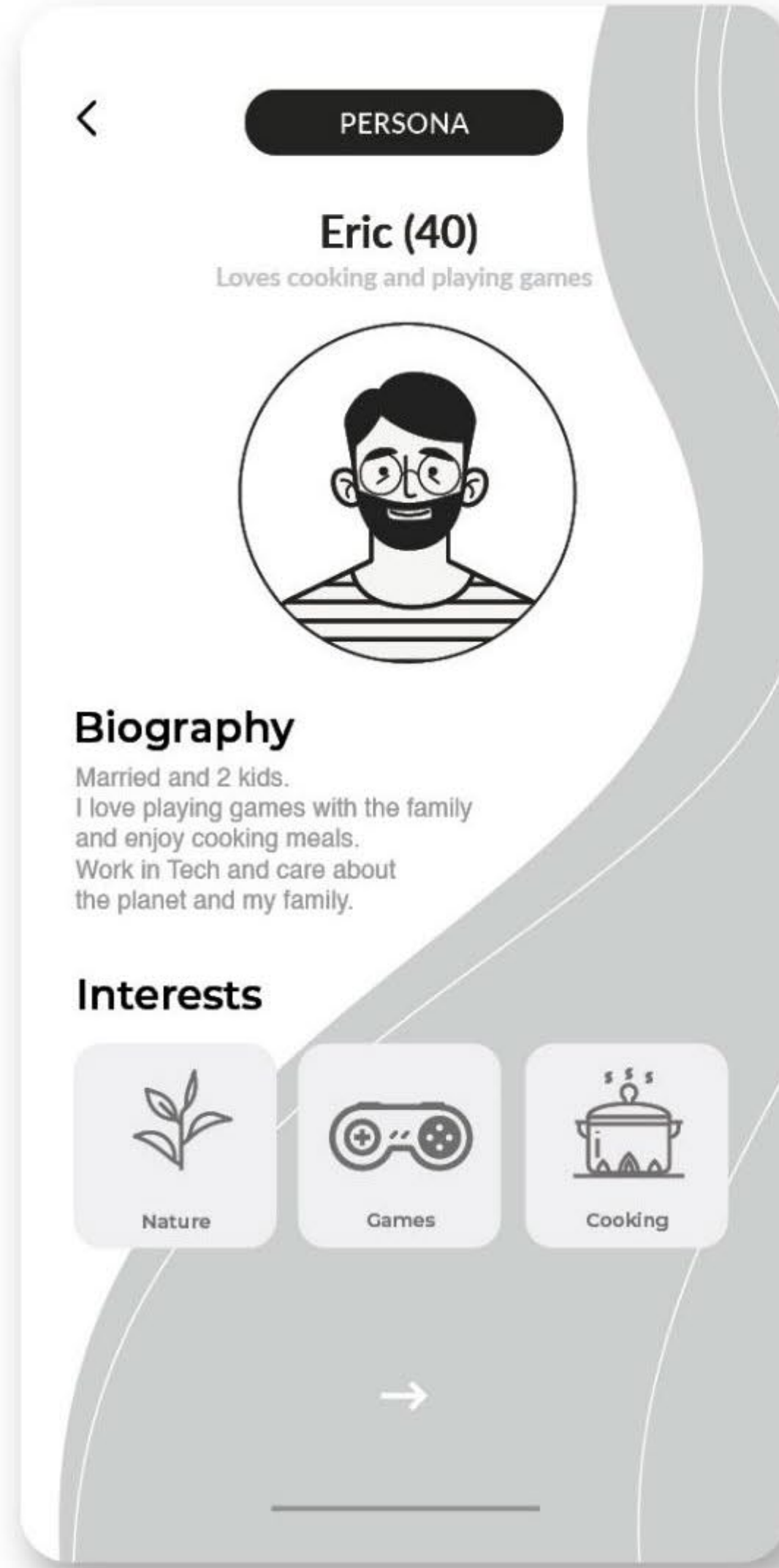
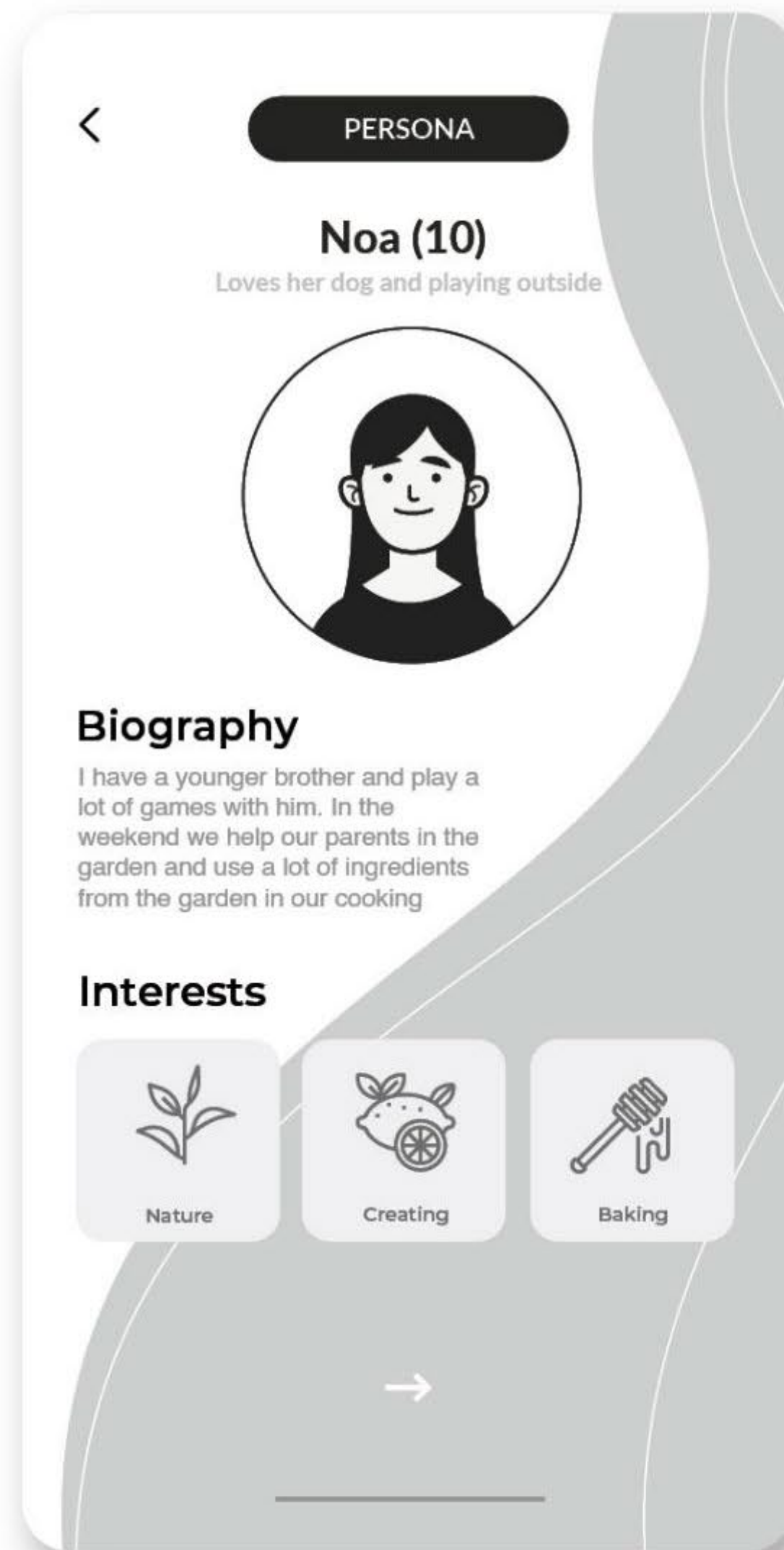


Case Study Zelterstrasse BIGYARD

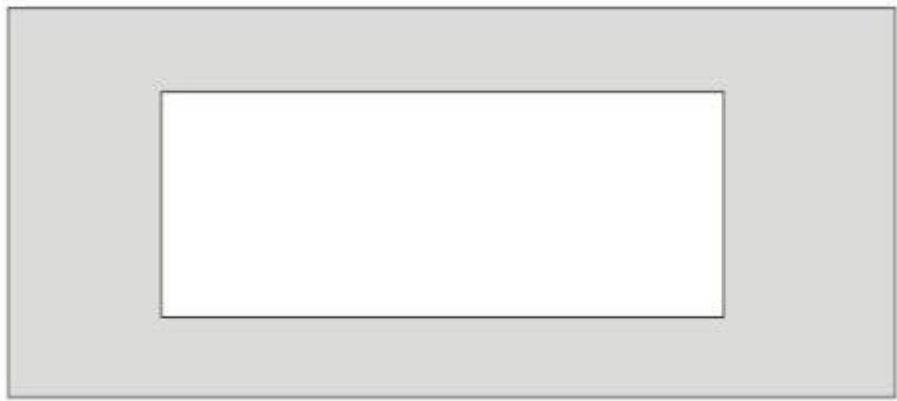


Case study Vindmøllebakken

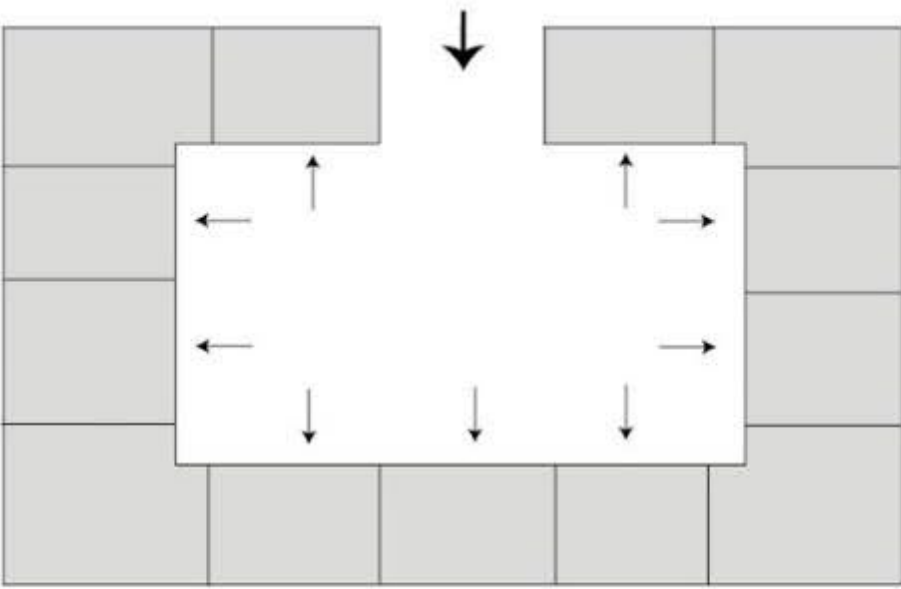




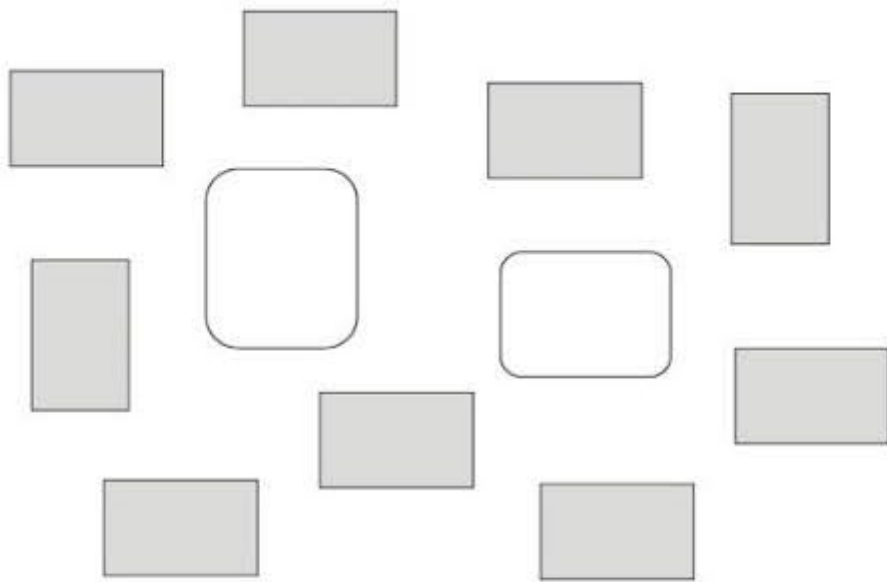
Design Principles



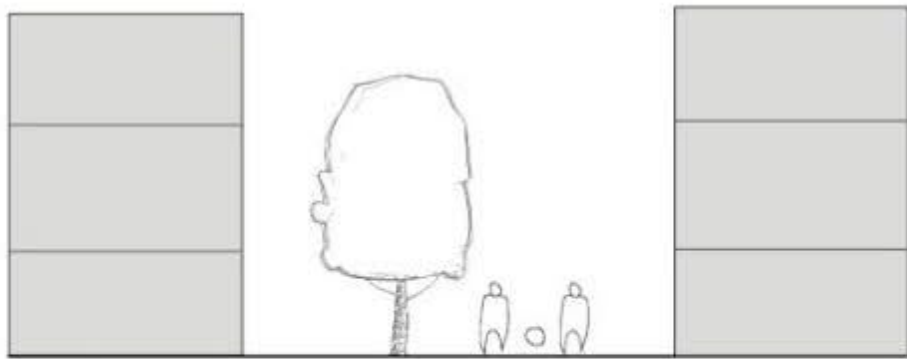
Micro-communities



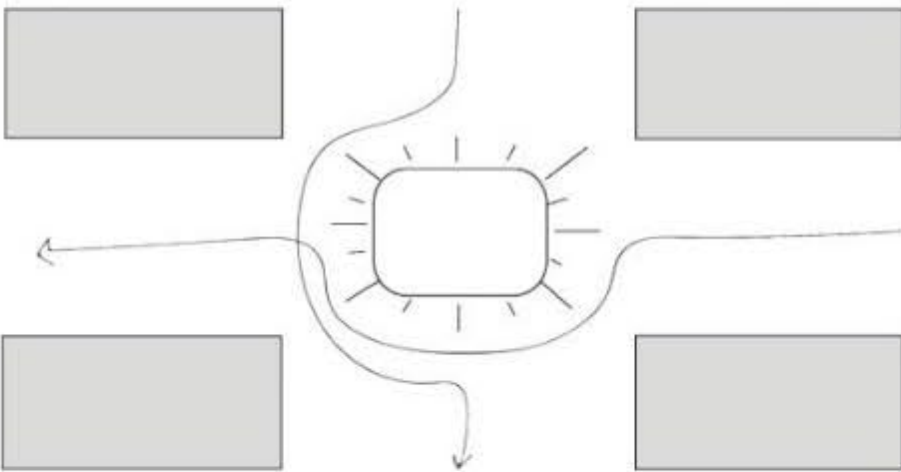
Modern 'hofje'



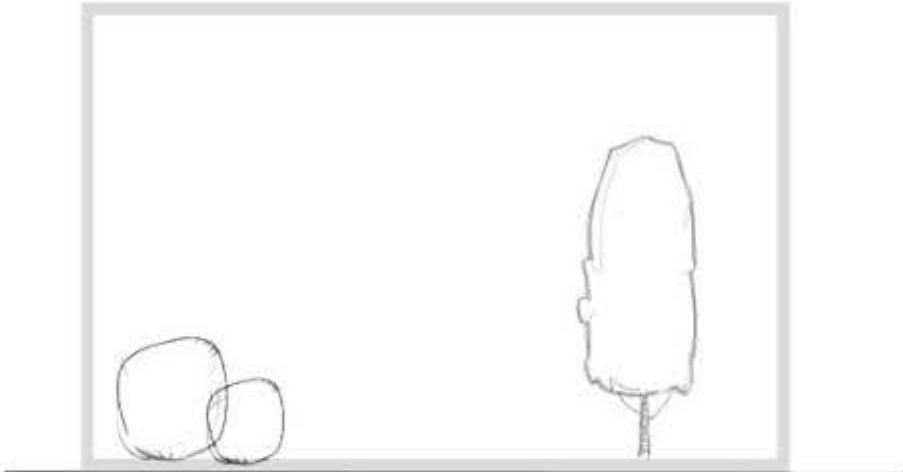
Shared and Common spaces



Courtyard

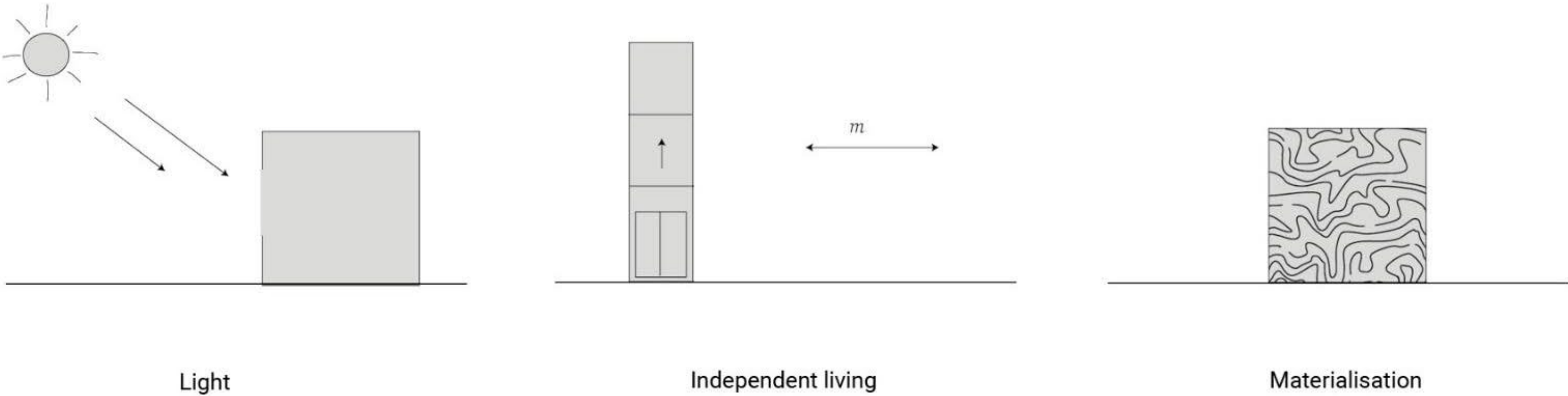
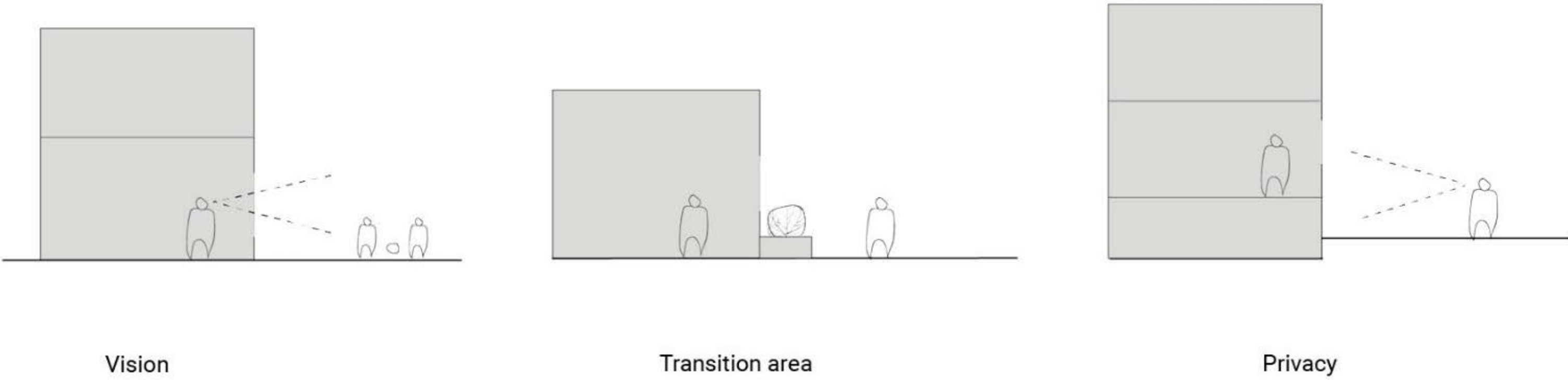


100 % corner



Wintergarden

Design Principles



Project location



Introduction

Research findings

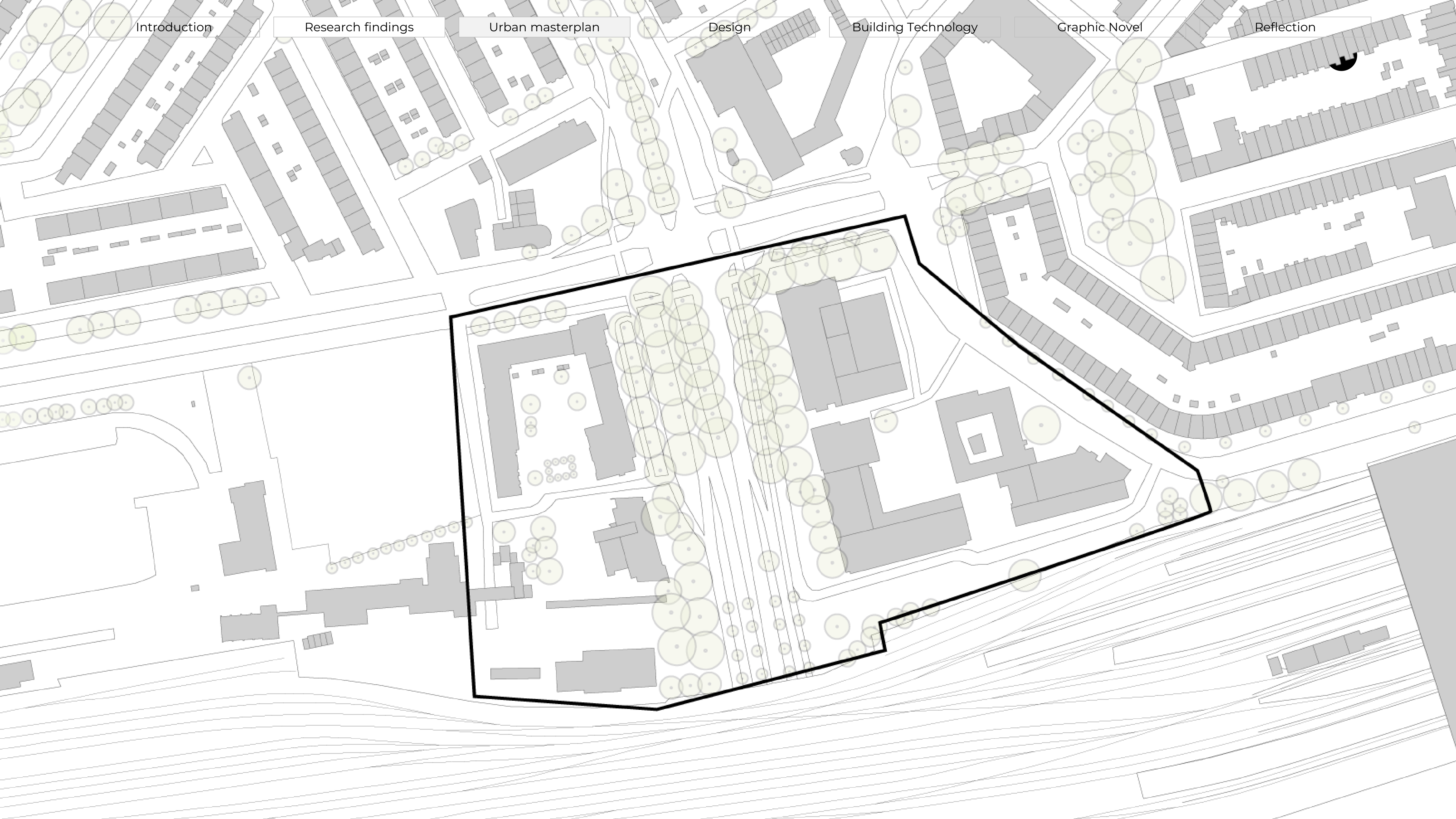
Urban masterplan

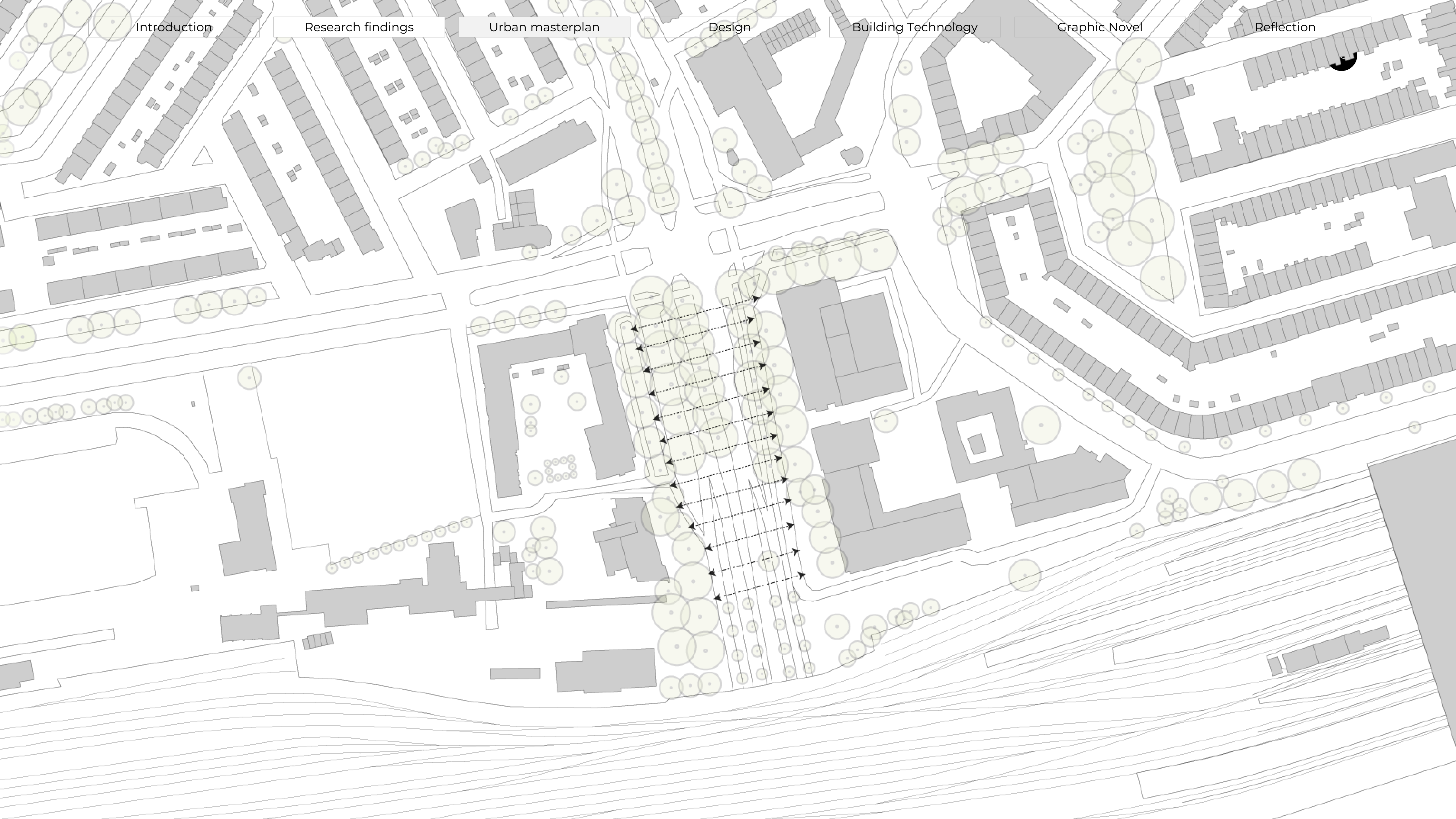
Design

Building Technology

Graphic Novel

Reflection





Introduction

Research findings

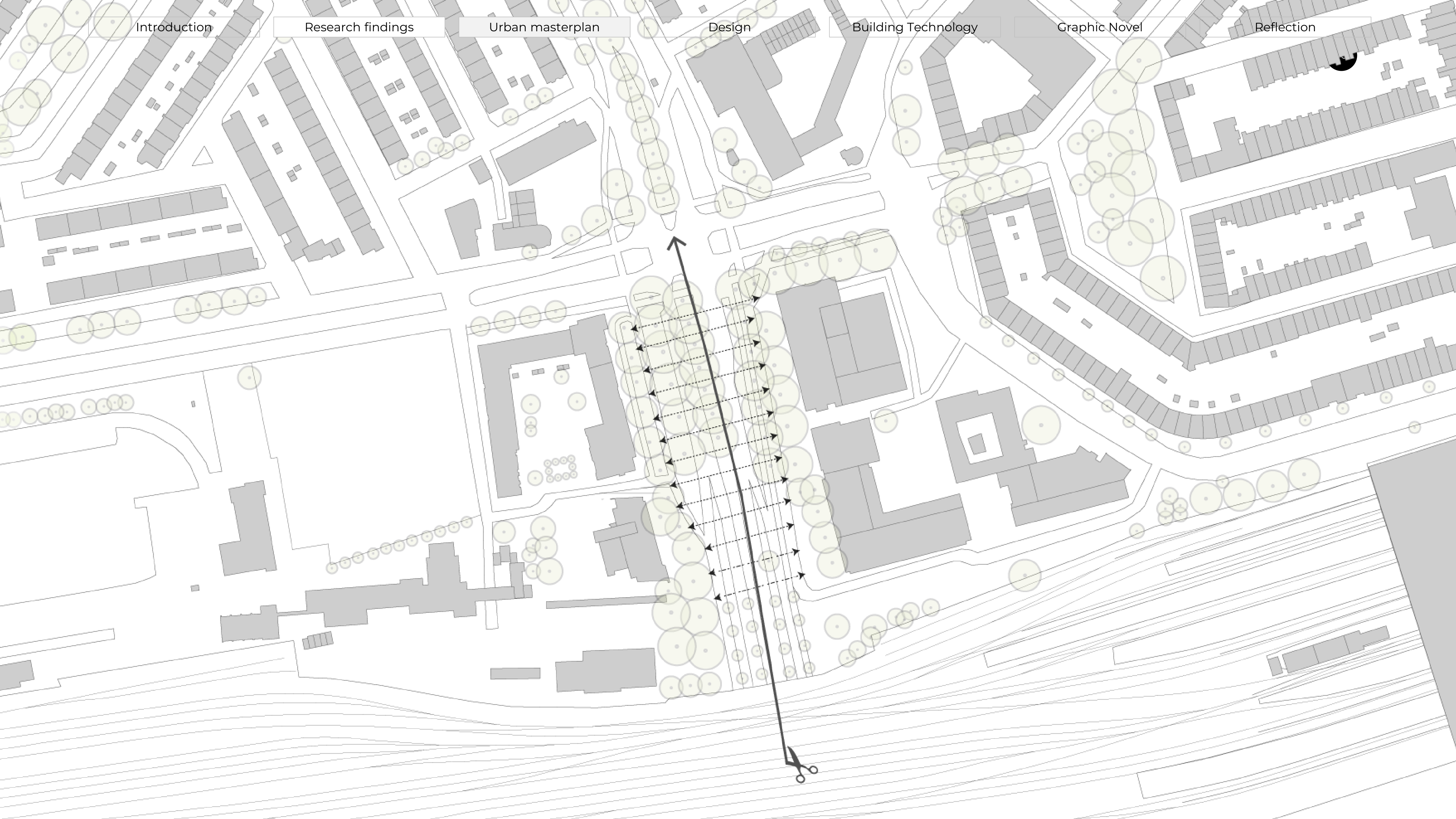
Urban masterplan

Design

Building Technology

Graphic Novel

Reflection



Introduction

Research findings

Urban masterplan

Design

Building Technology

Graphic Novel

Reflection

Introduction

Research findings

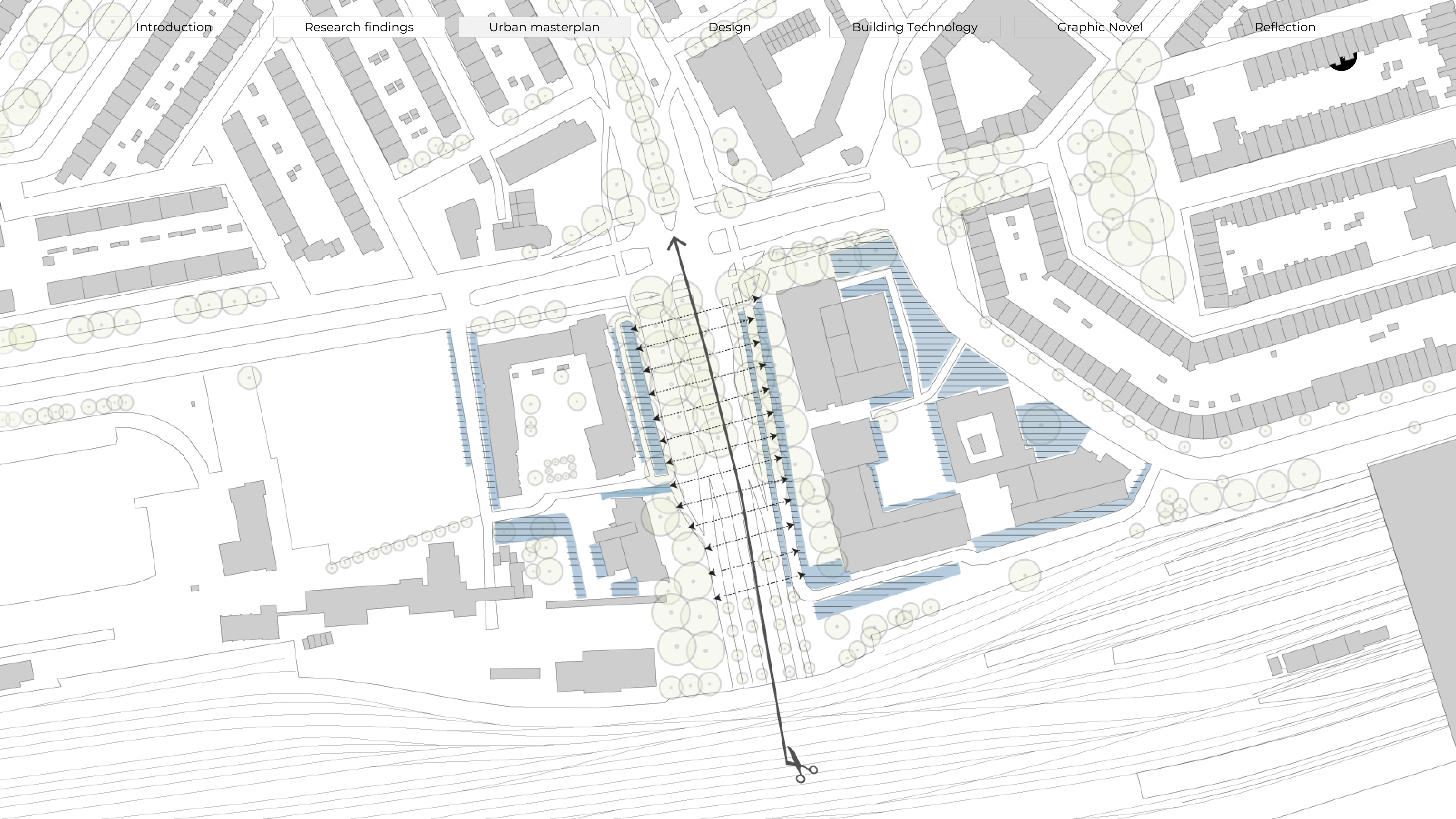
Urban masterplan

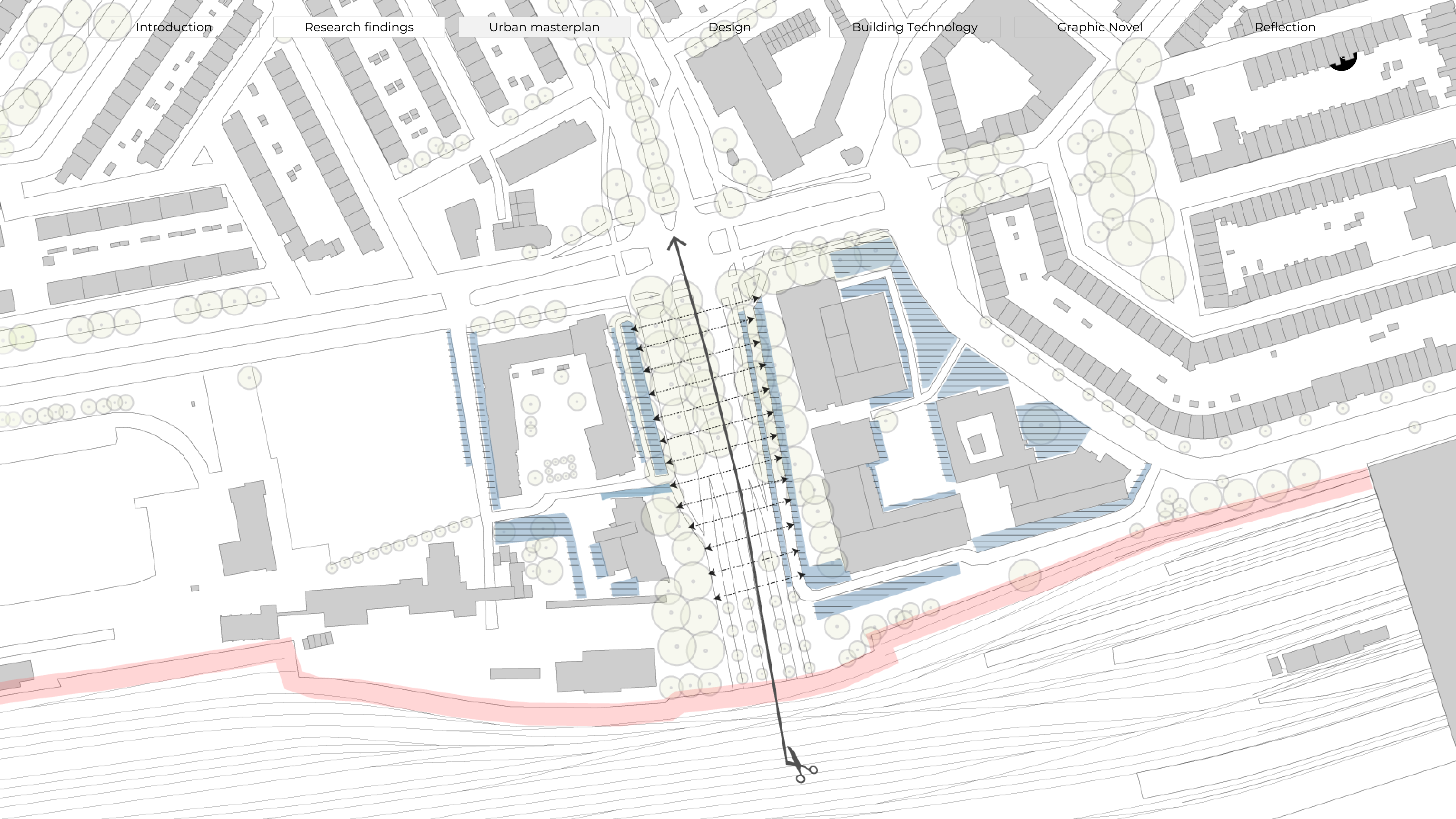
Design

Building Technology

Graphic Novel

Reflection





Introduction

Research findings

Urban masterplan

Design

Building Technology

Graphic Novel

Reflection

Urban Masterplan Vision

The urban masterplan ambitions, principles and strategies

Ambition

Defined Urban Fabric

Neighborhood Center

Healthy Living

Social Sustainability

Principles

Adding a Human Scale

Mixed Programming

Enhance biodiversity

Social Mix

Strategies

Small plots for architectural
diversity

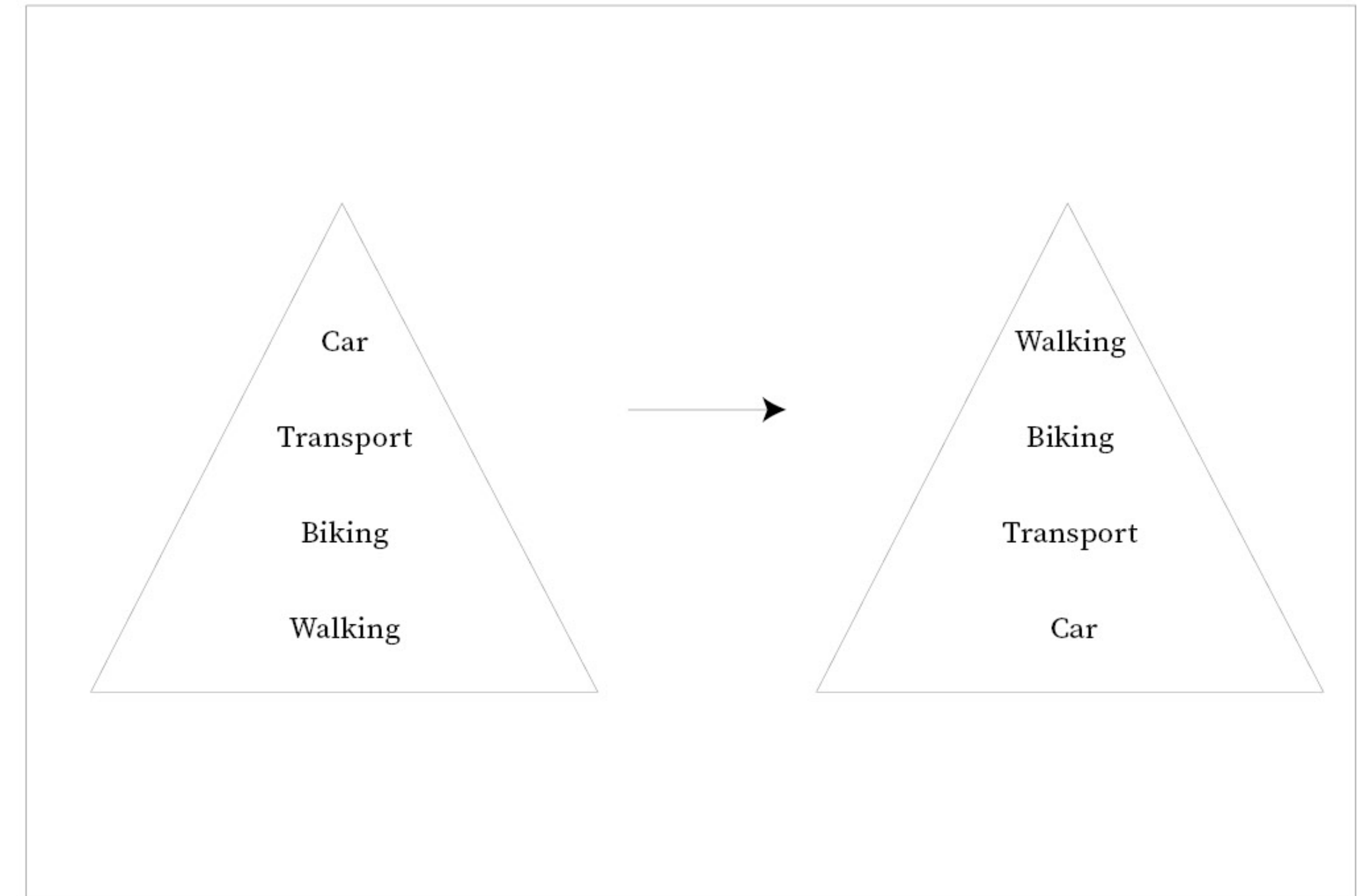
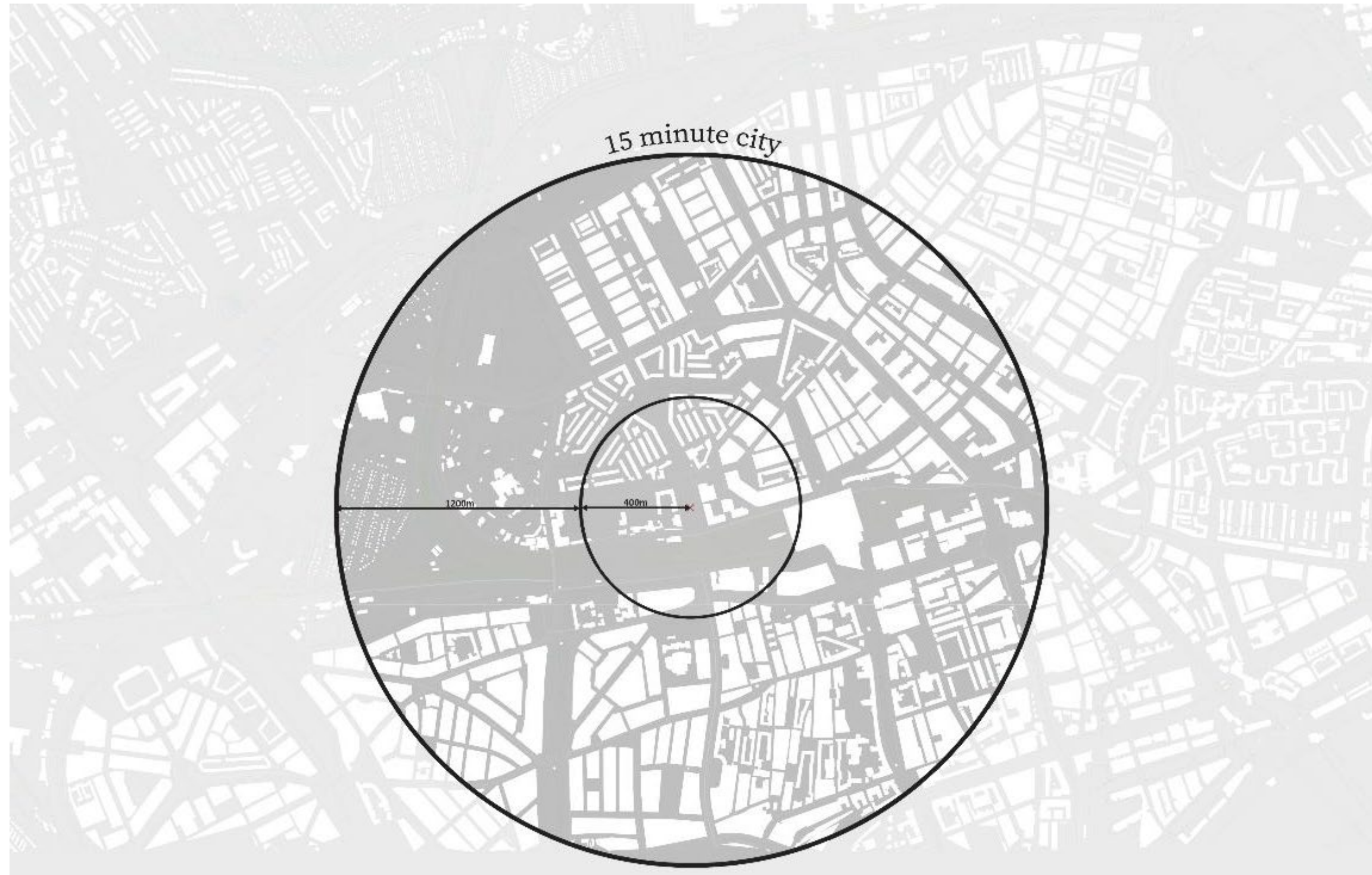
Active ground floors

Implement Green Corridor

Different housing typologies

Urban Masterplan Vision

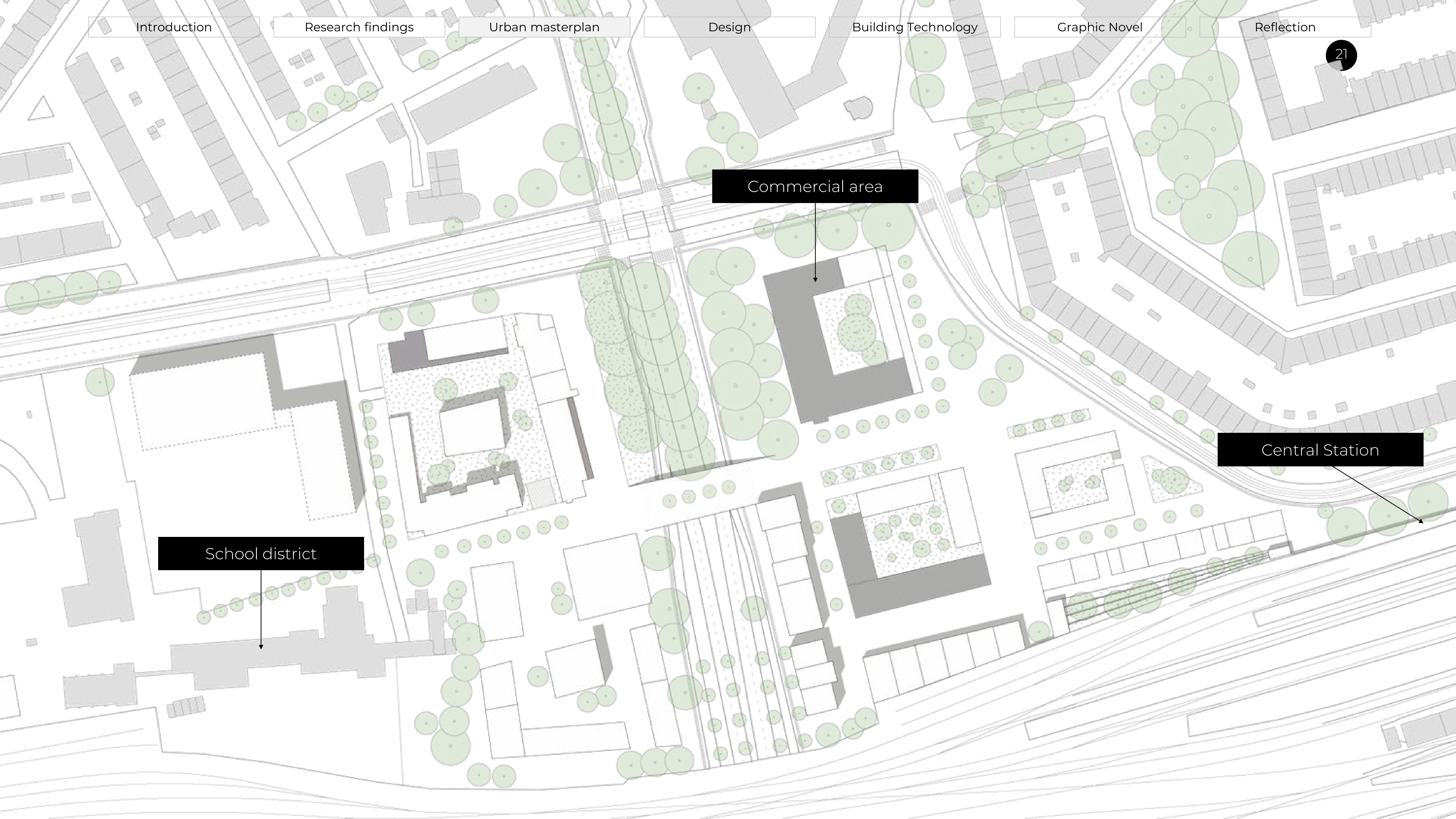
The urban masterplan ambitions, principles and strategies

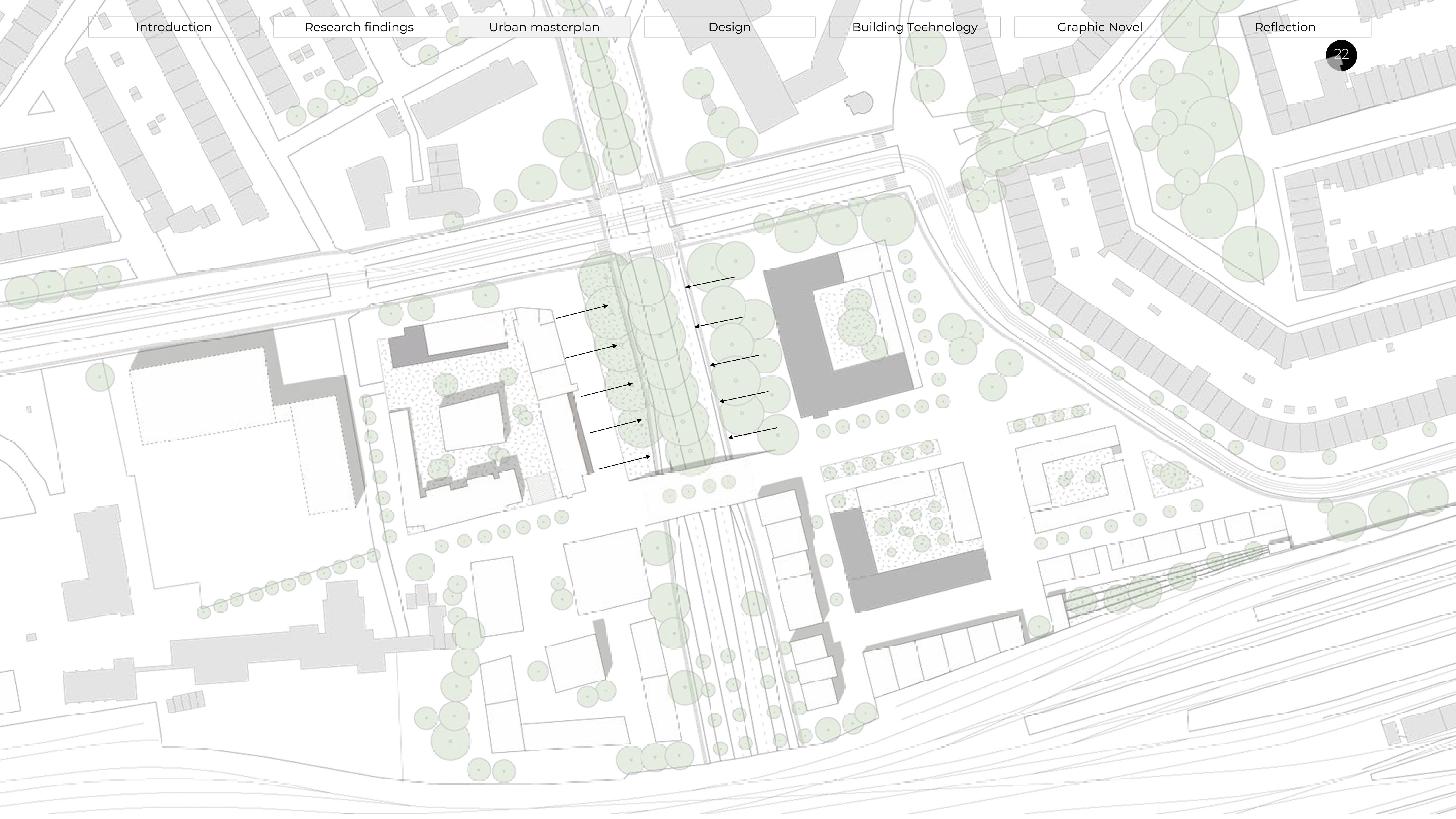


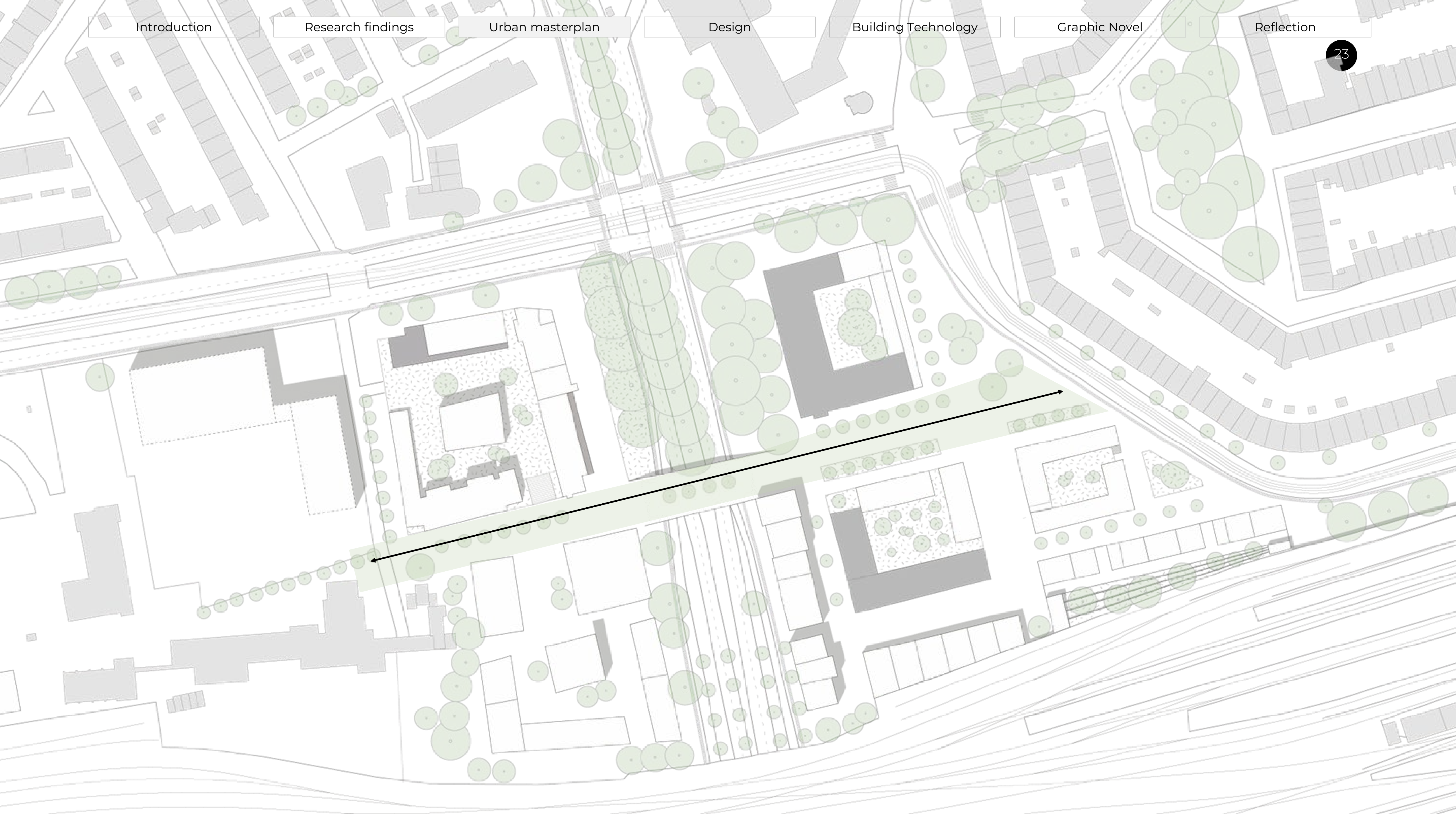
Commercial area

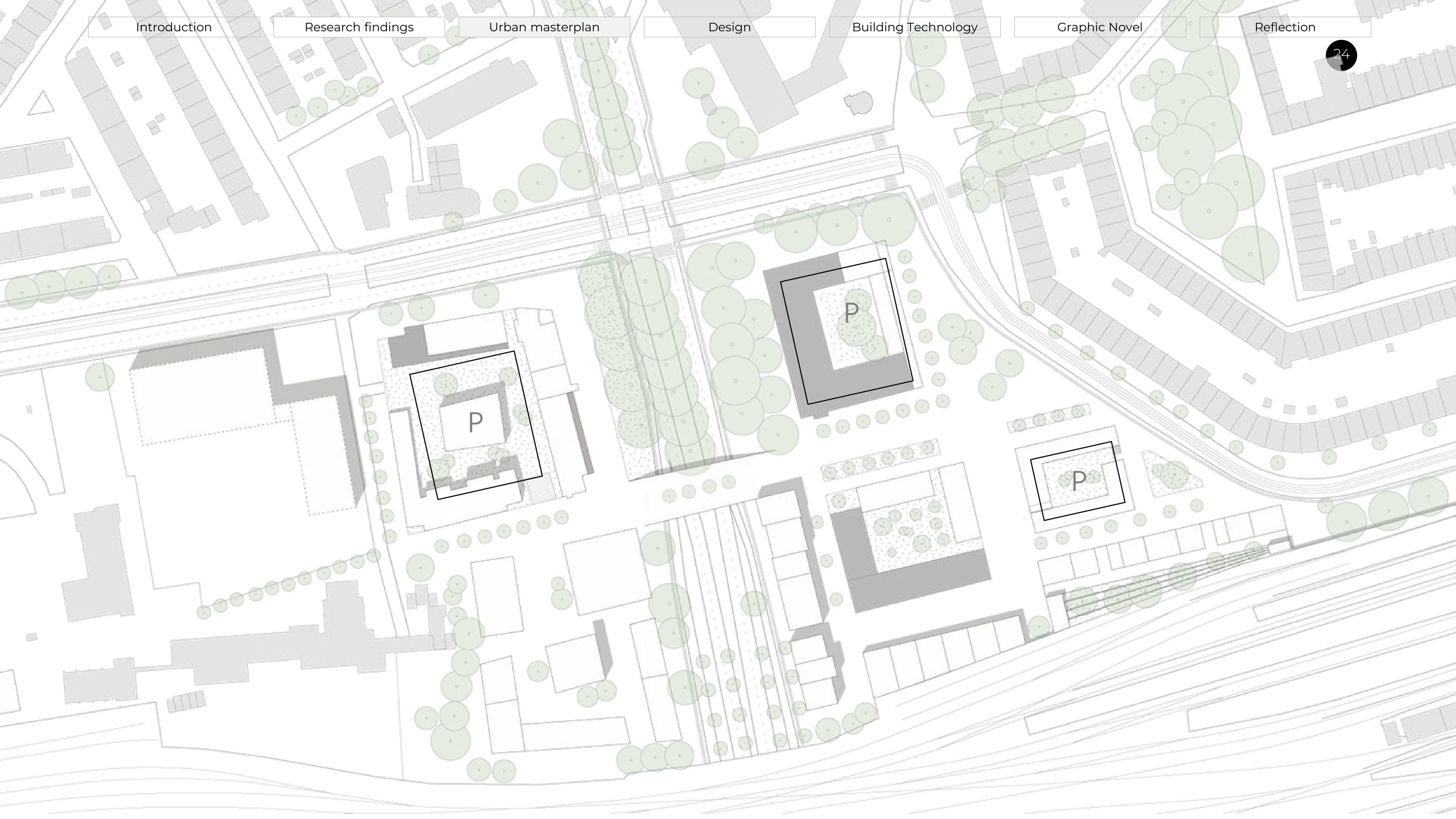
Central Station

School district

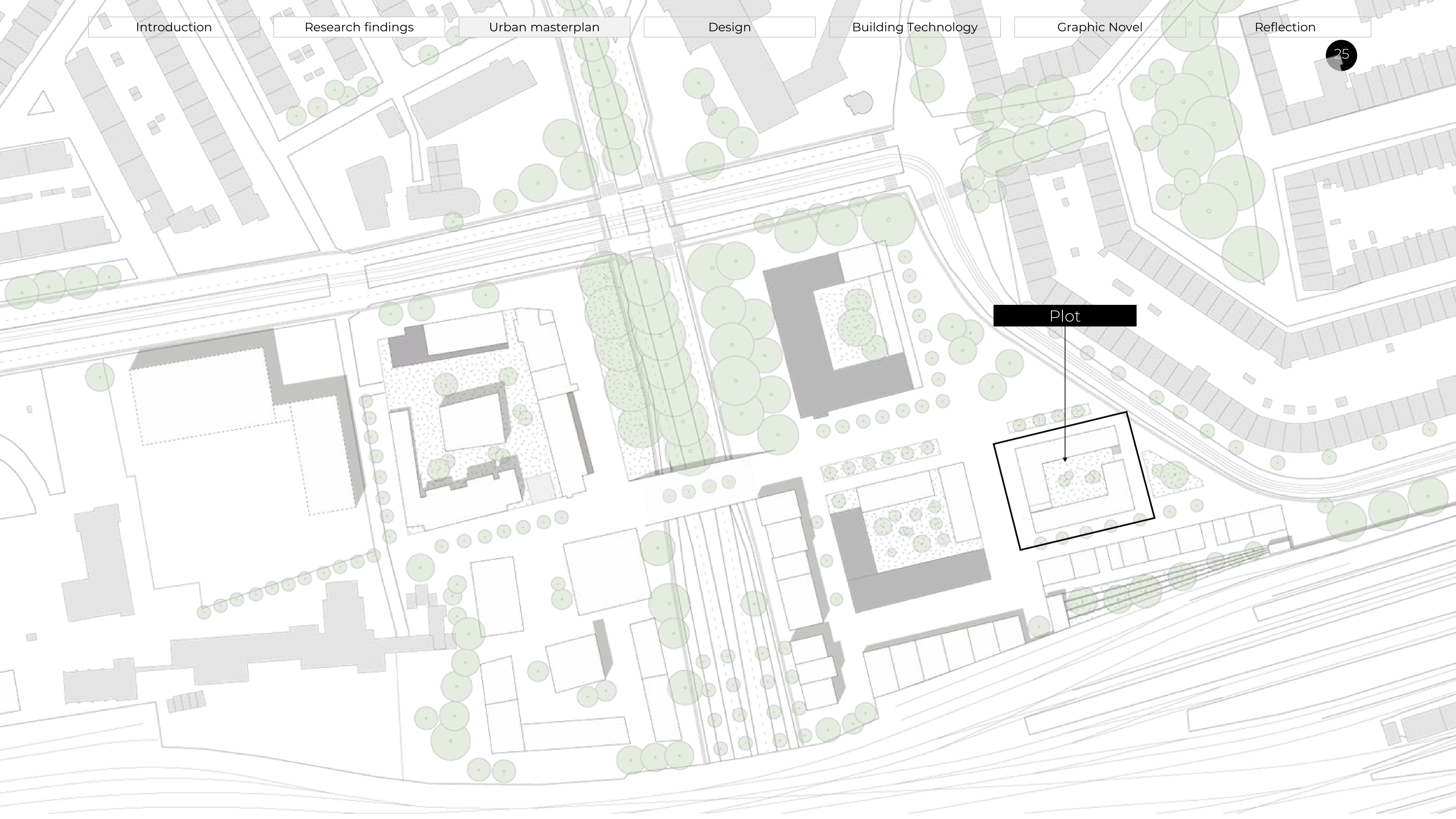








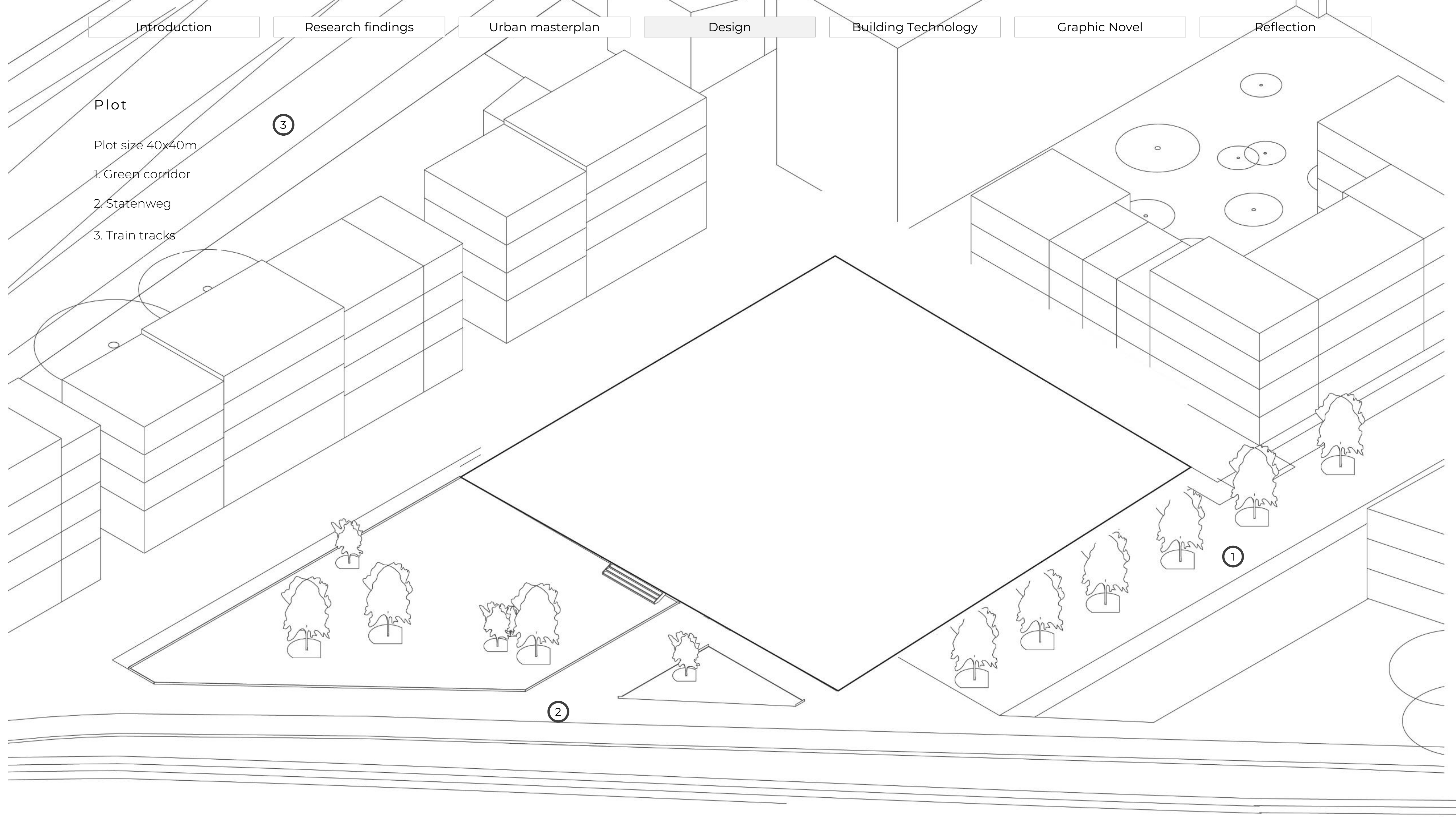
Plot



Plot

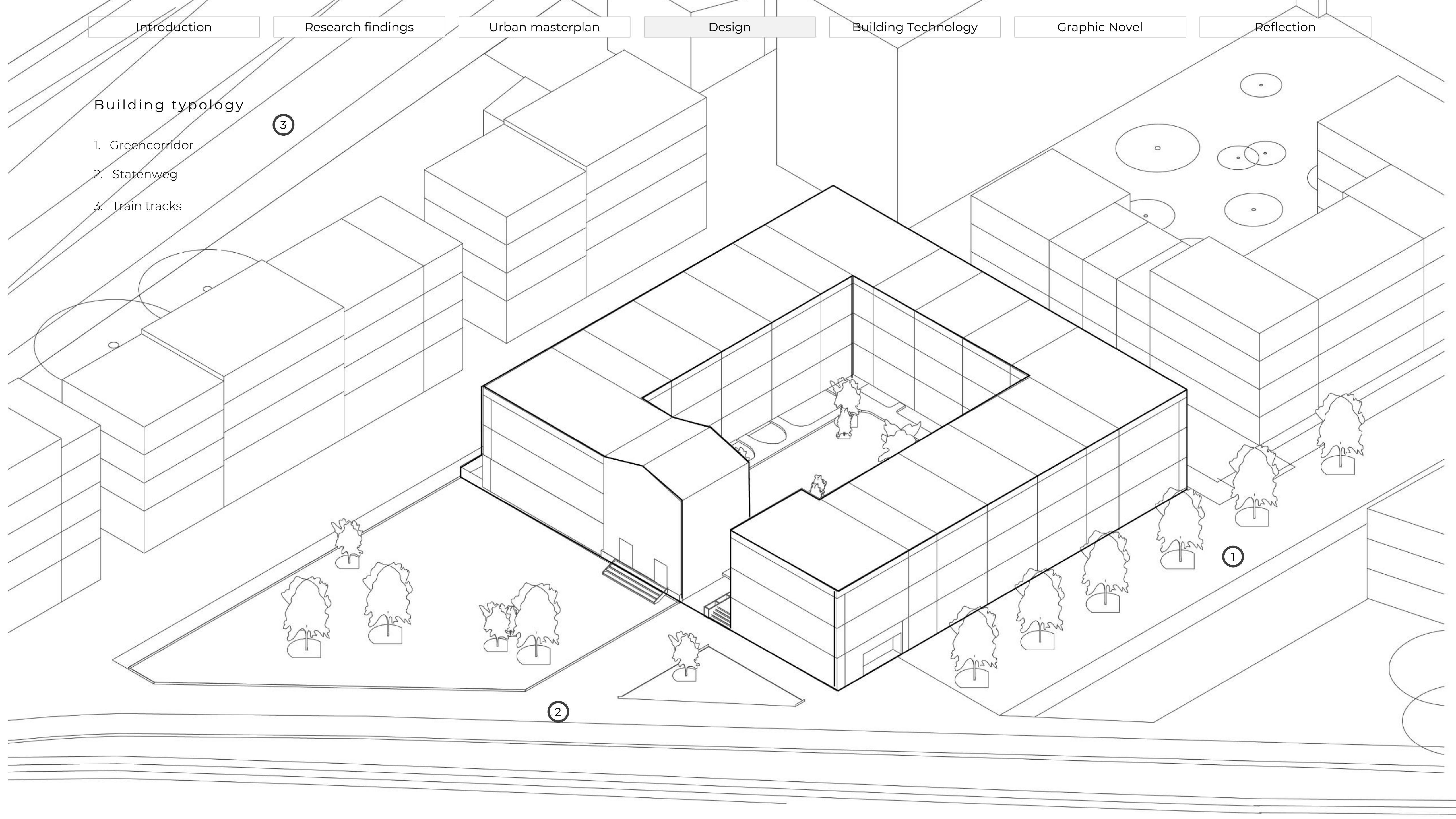
Plot size 40x40m

- 1. Green corridor
- 2. Statenweg
- 3. Train tracks



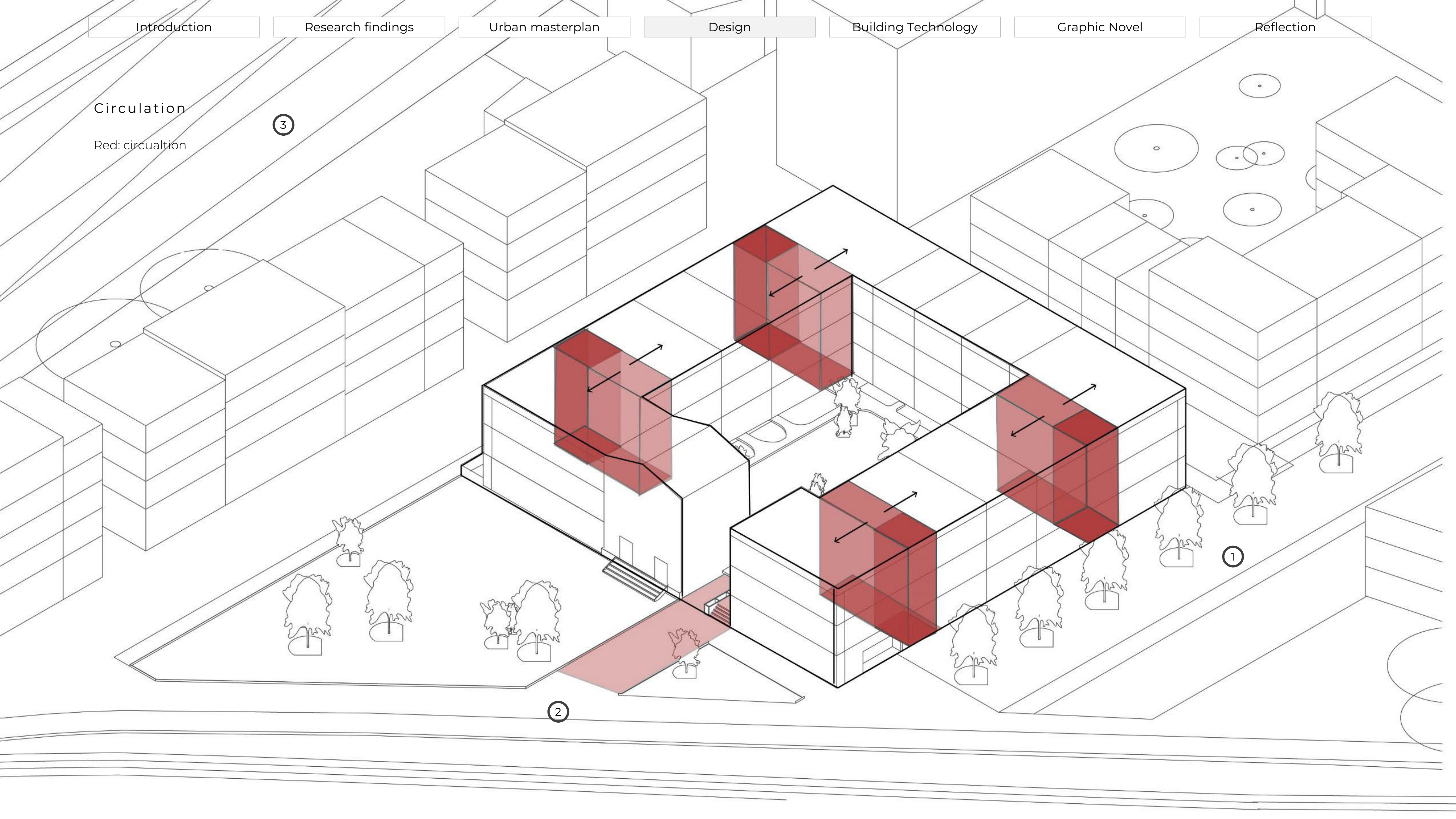
Building typology

- 1. Green corridor
- 2. Statenweg
- 3. Train tracks



Circulation

Red: circualtion



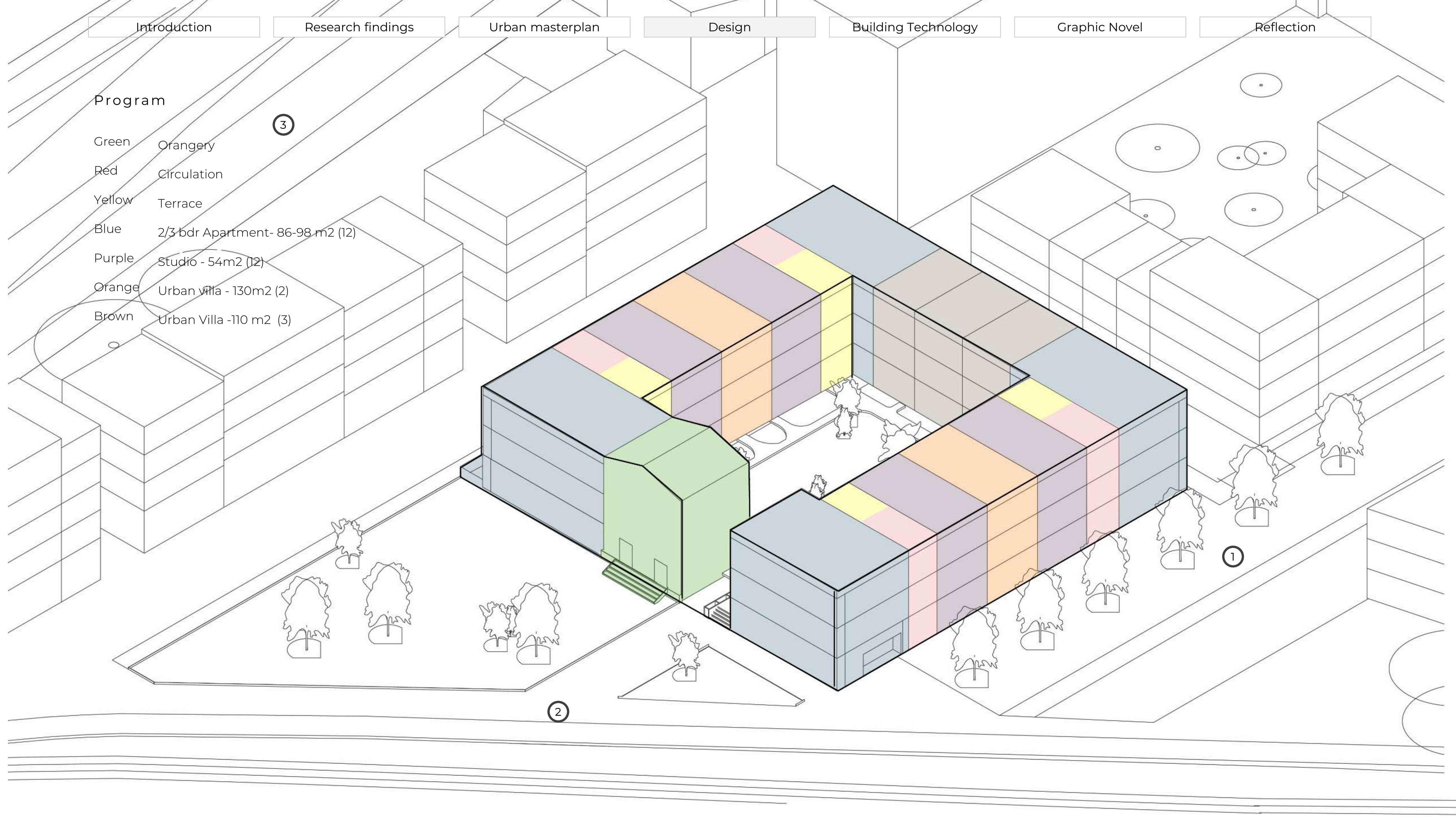
Program

- Green Orangery
- Red Circulation
- Yellow Terrace
- Blue 2/3 bdr Apartment- 86-98 m2 (12)
- Purple Studio - 54m2 (12)
- Orange Urban villa - 130m2 (2)
- Brown Urban Villa -110 m2 (3)

3

1

2



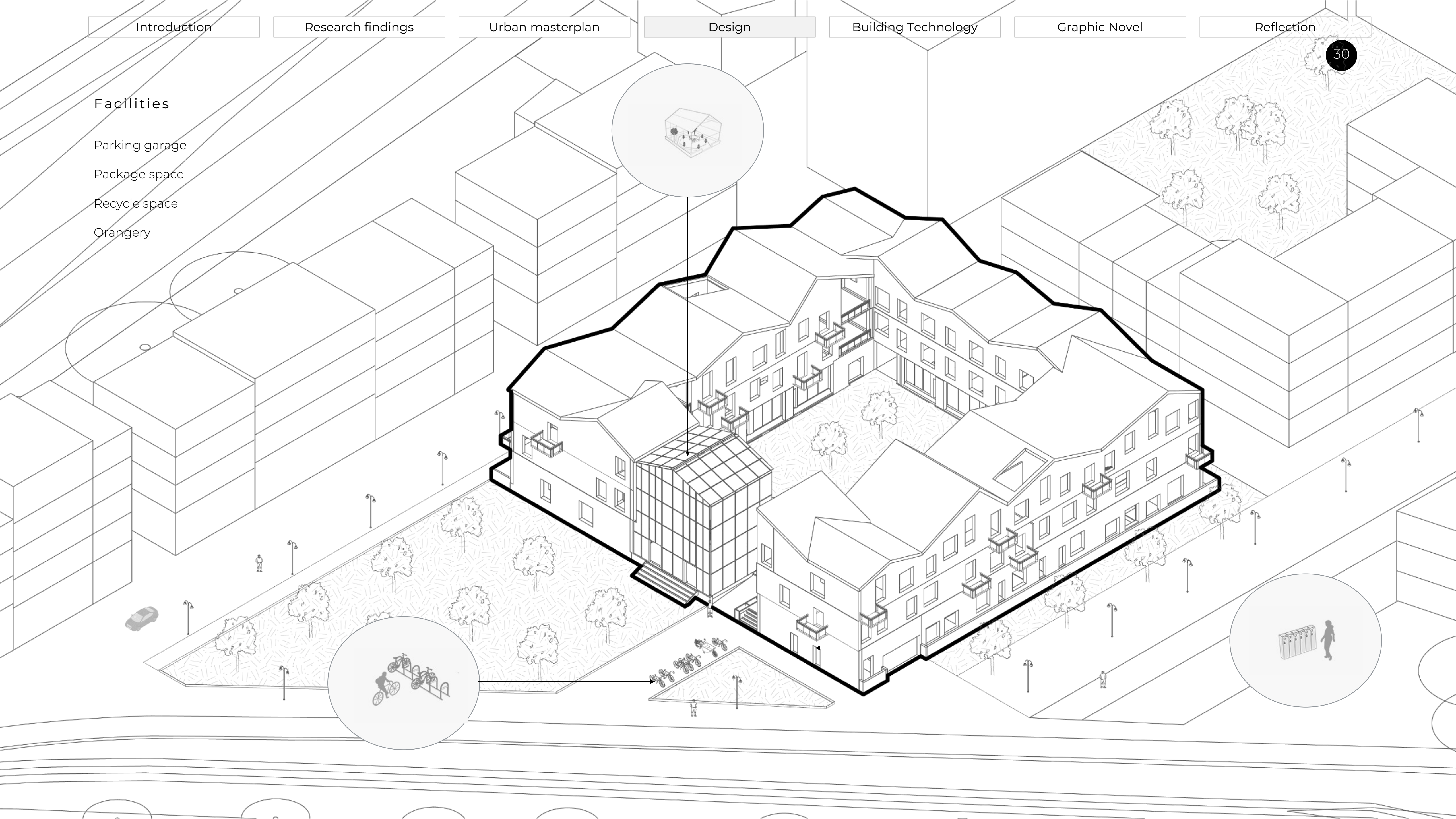
Facilities

Parking garage

Package space

Recycle space

Orangery



Program

Cooperative housing

59%

Circulation

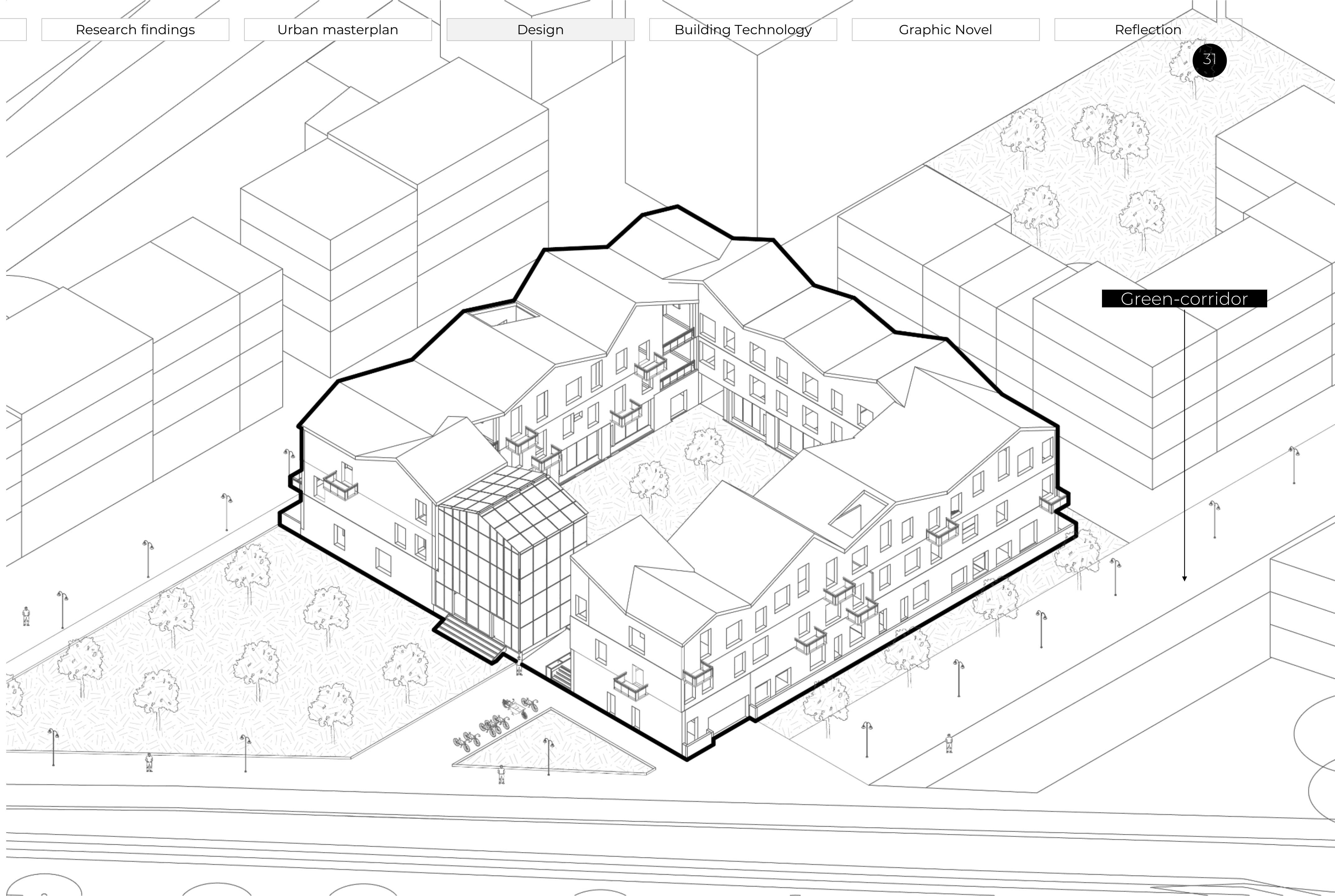
21%

Shared Space:
Orangery
Terraces
Collective facilities
Others

11%

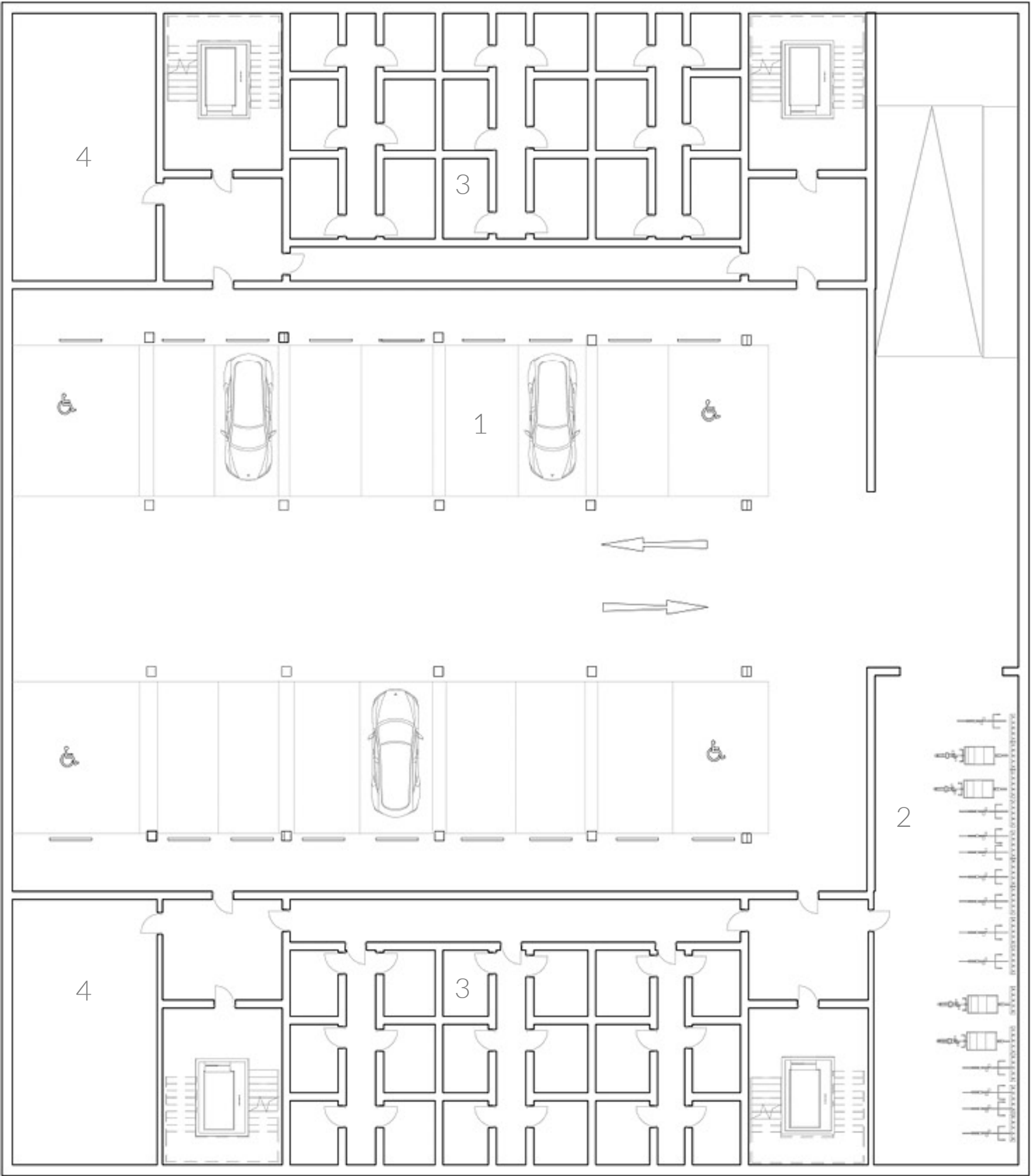
9%

Green-corridor



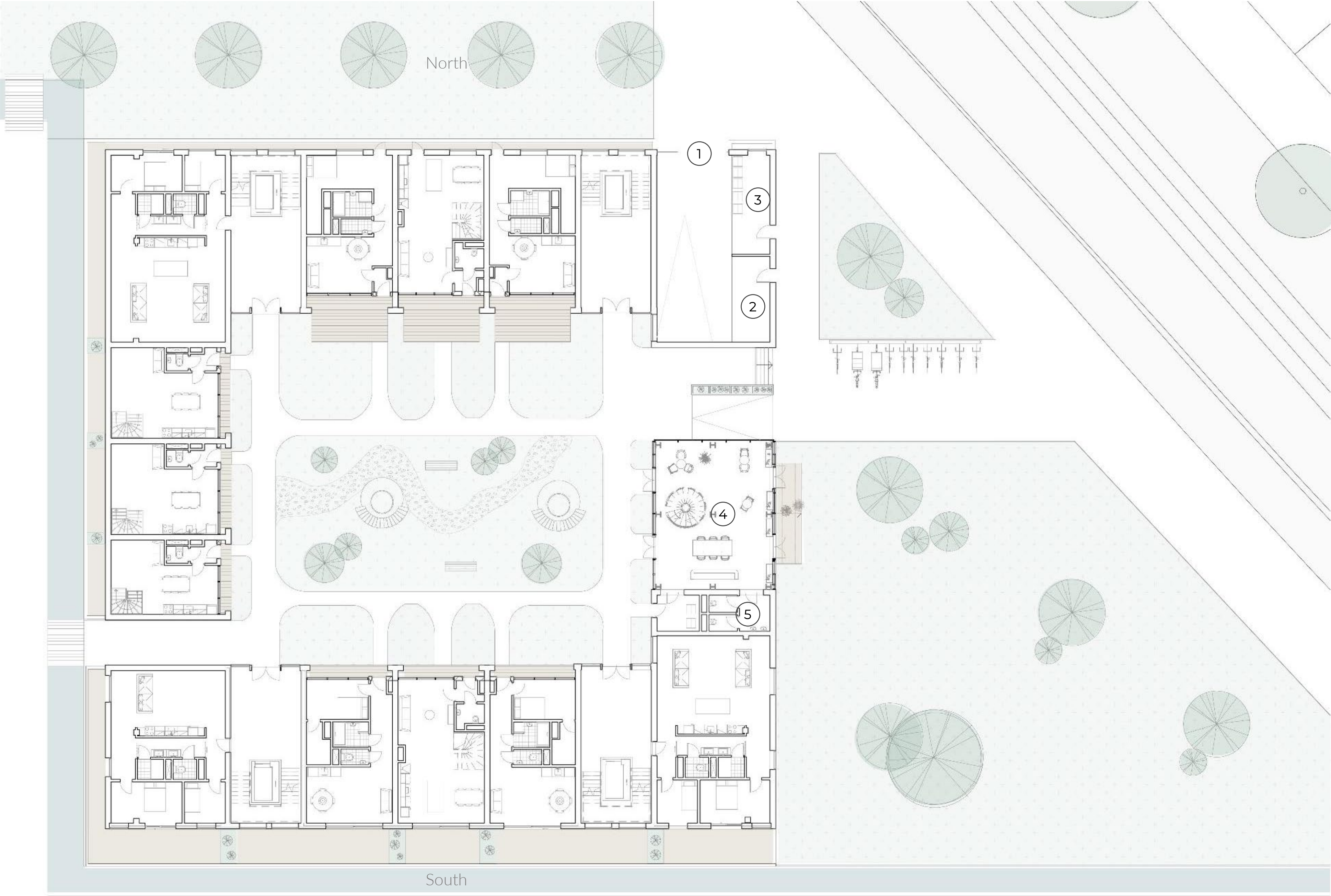
Basement

- 1 Shared mobility
- 2 Bike storage
- 3 Storage
- 4 Technical space



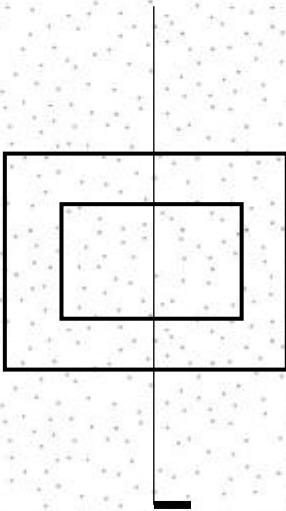
Site
Ground-level

- ① Parking entrance
- ② Package space
- ③ Recycle space
- ④ Orangery
- ⑤ Restrooms





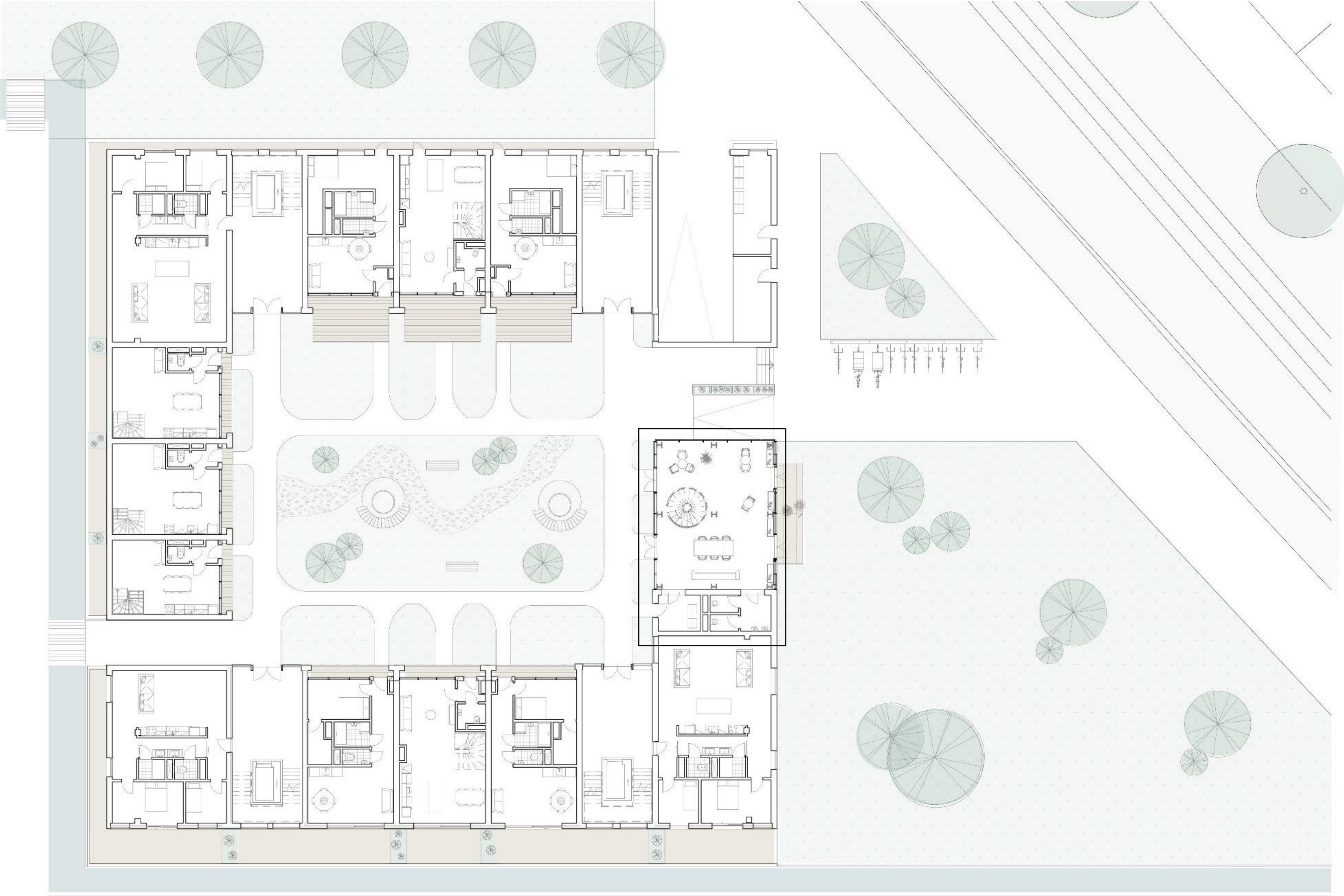
Section
South-north



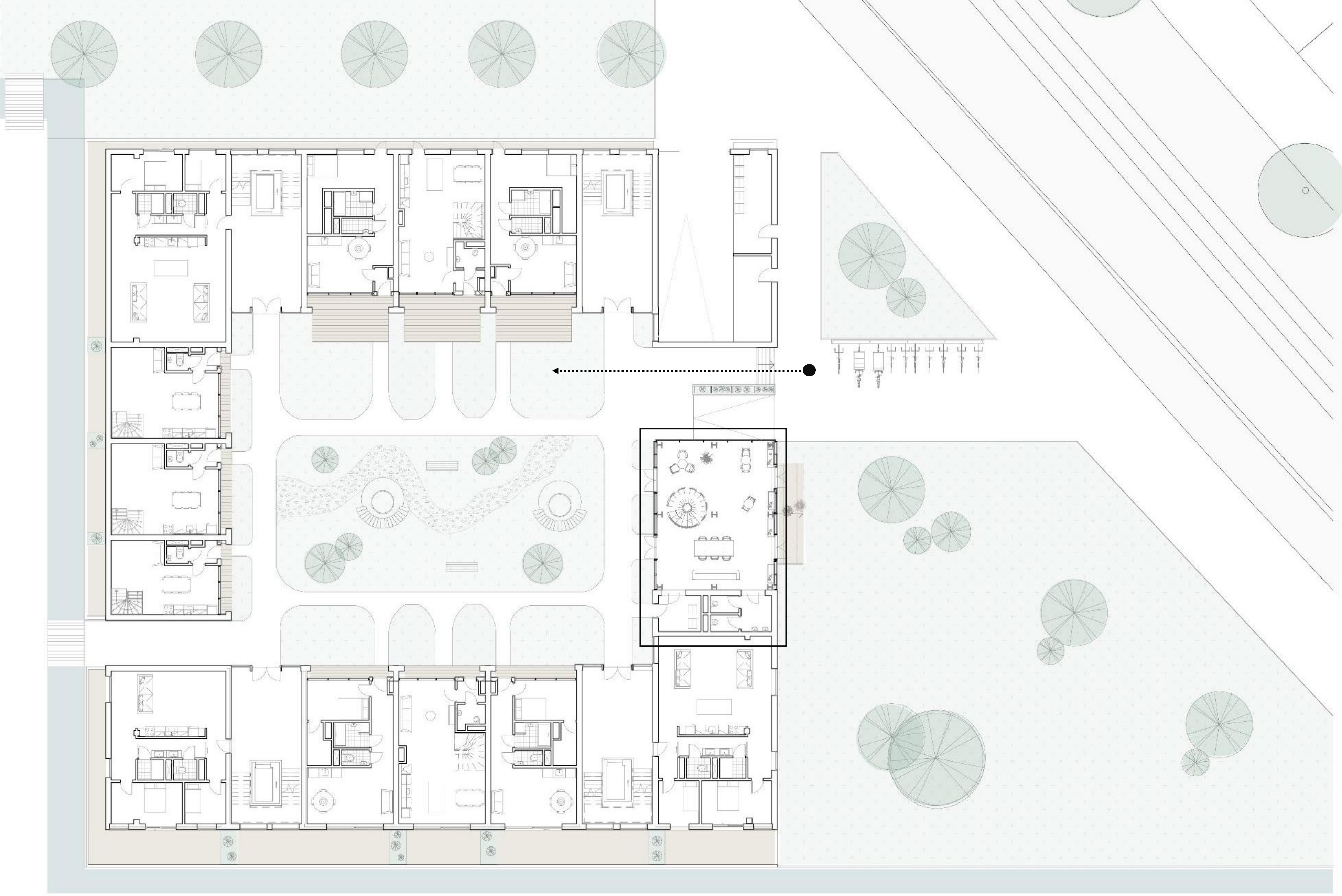
Site
Ground level



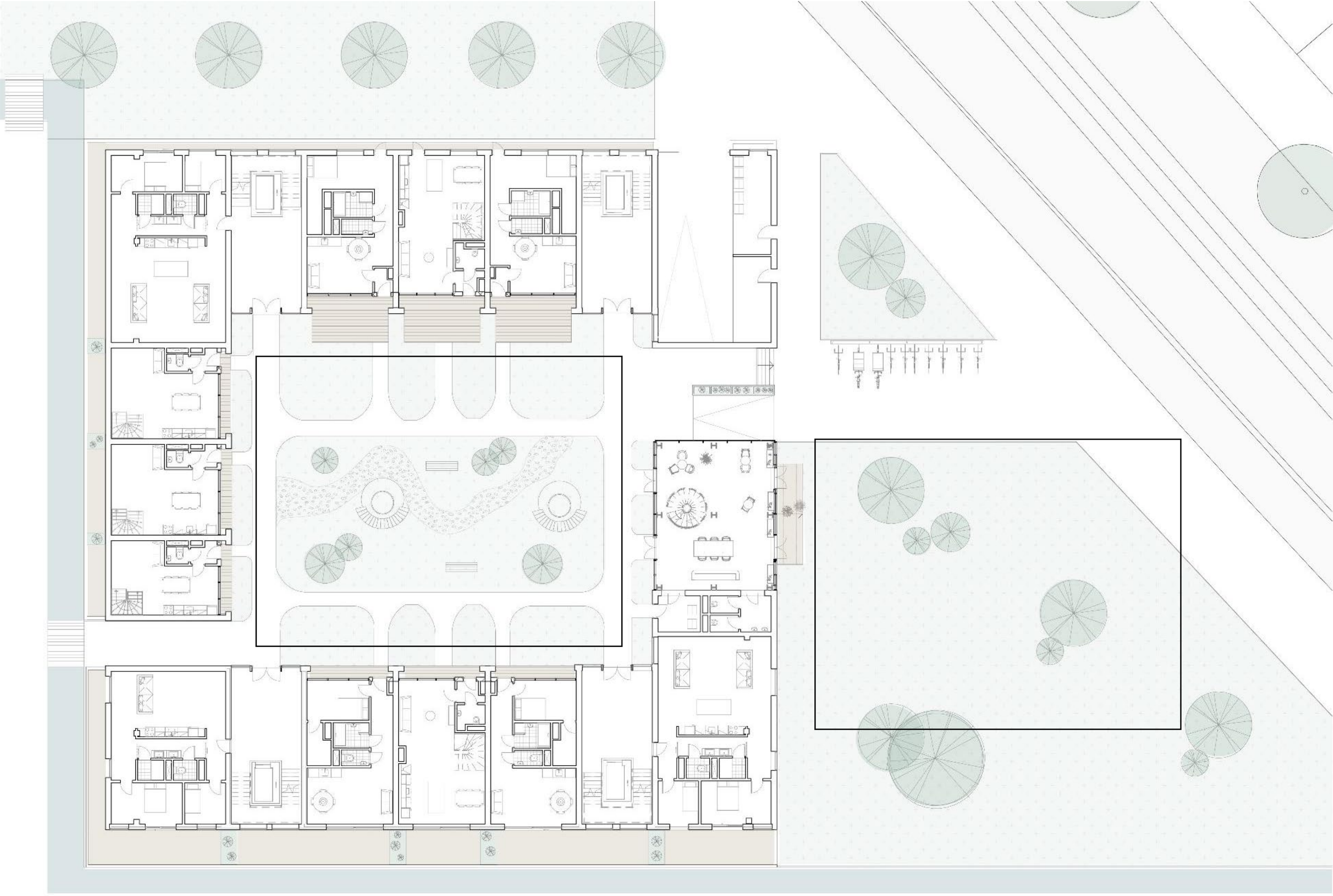
0 1 2 5m



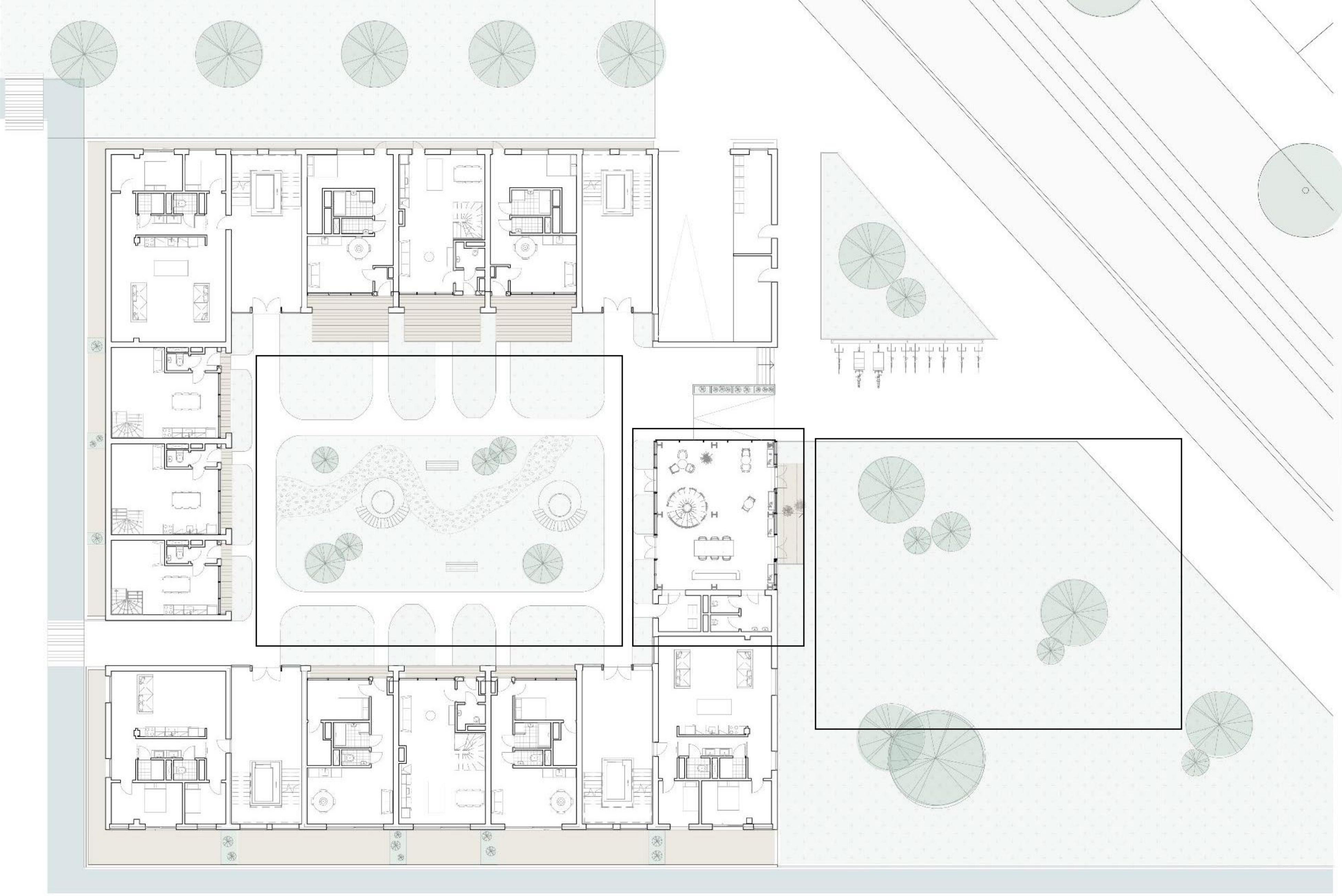
Site
Ground level



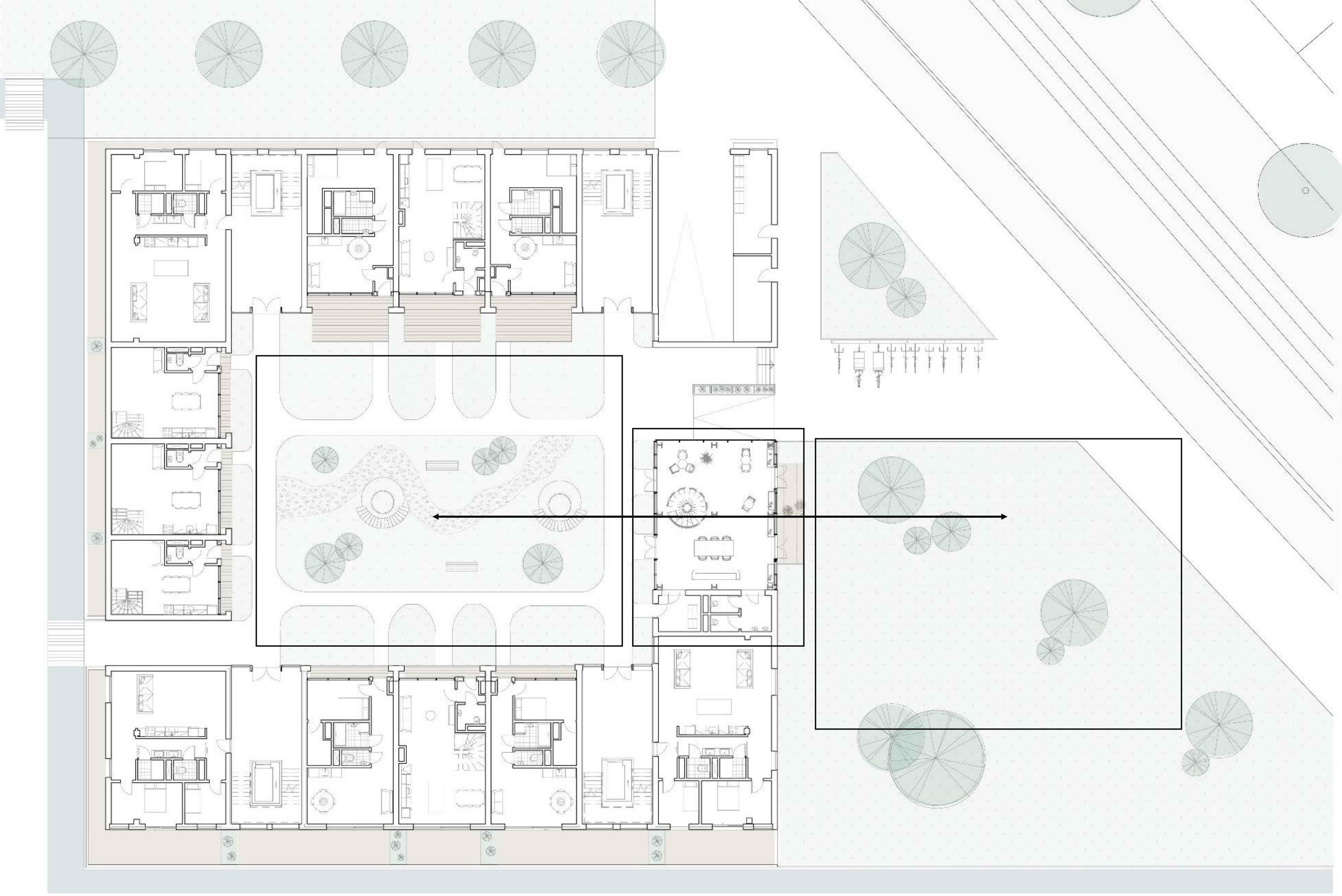
Site
Ground level

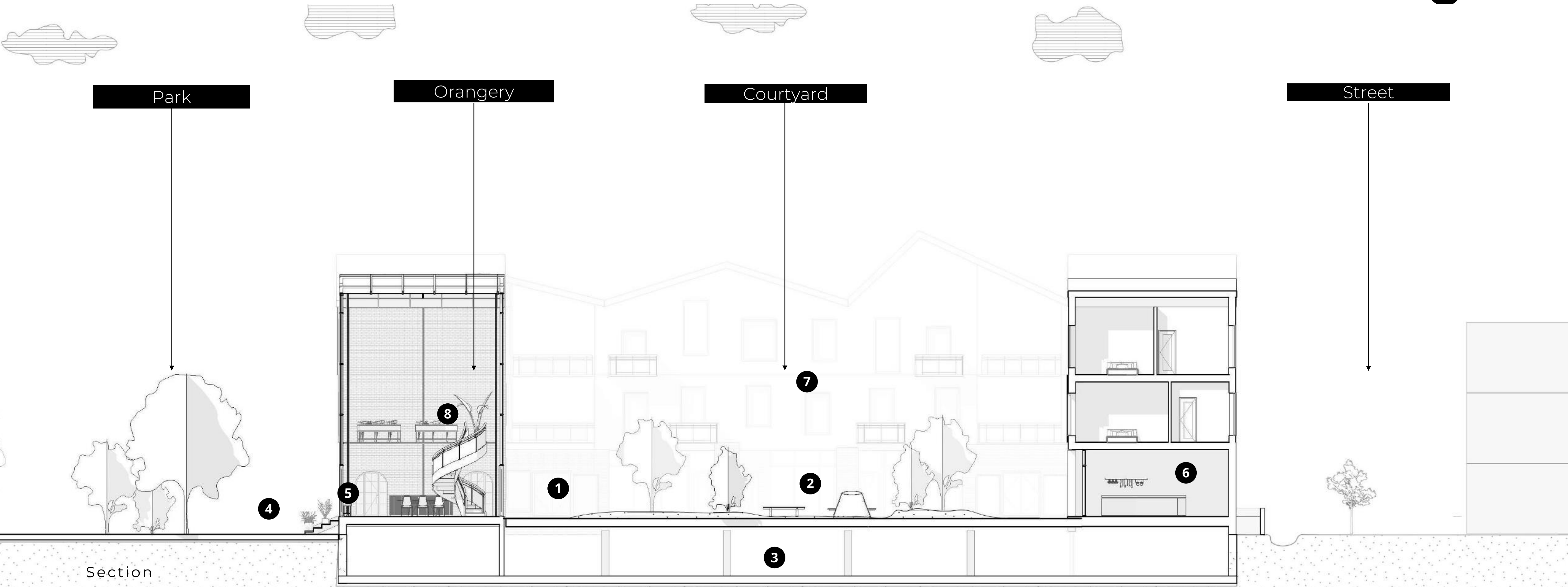


Site
Ground level

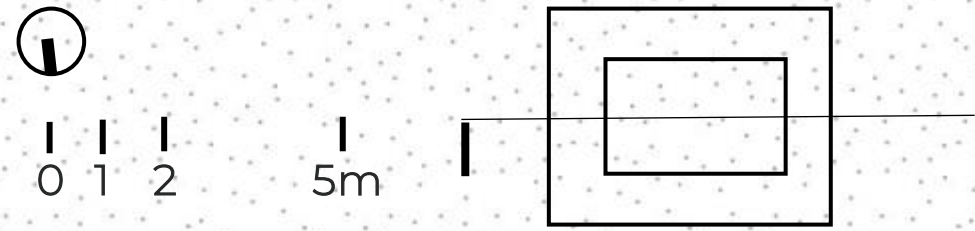


Site
Ground level





Section
East-west



- 1

Circulation
- 2

Urban Farming
- 3

Parking
- 4

Street
- 5

Terrace
- 6

Kitchen
- 7

Courtyard
- 8

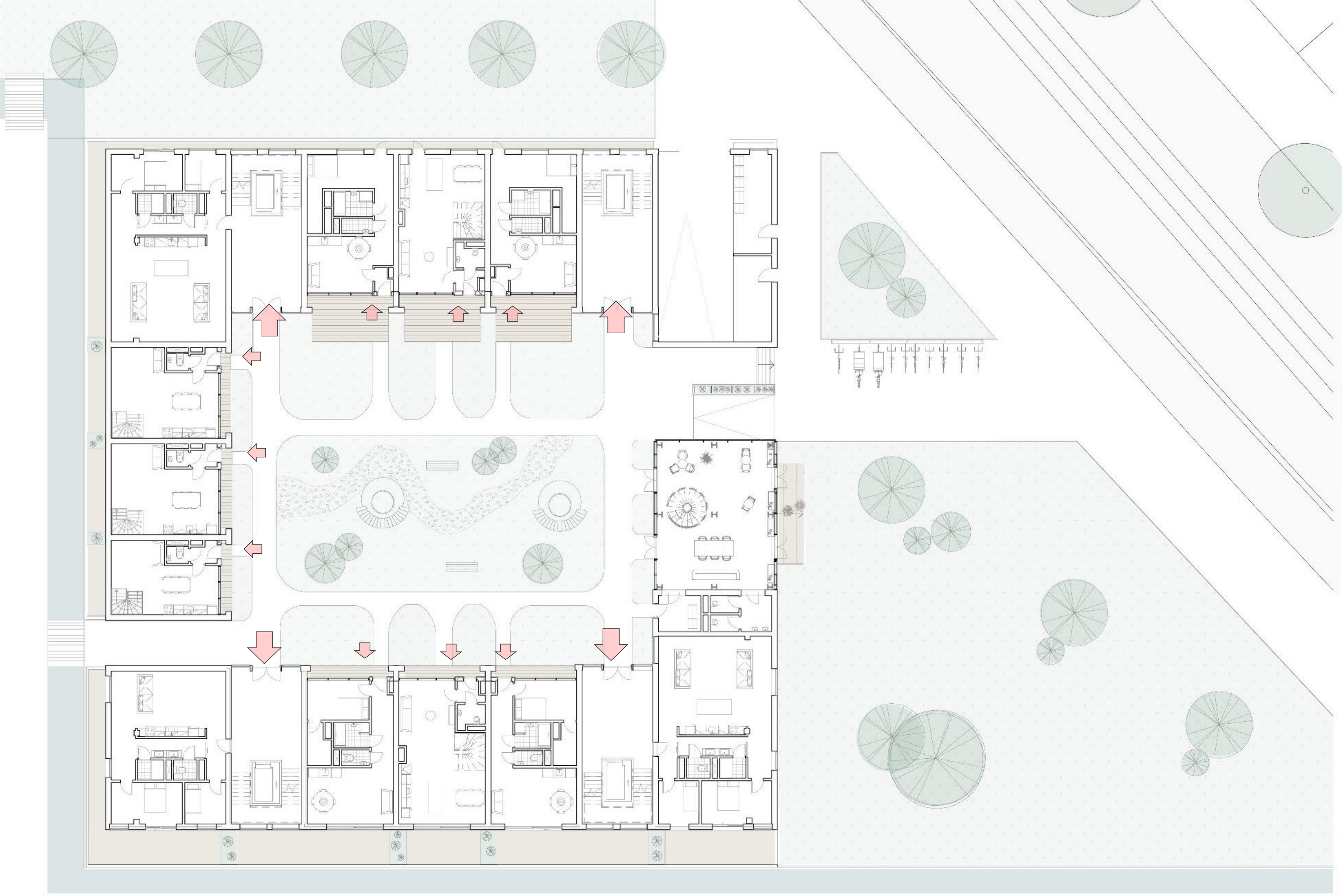
Orangery



Site
Ground level



0 1 2 5m

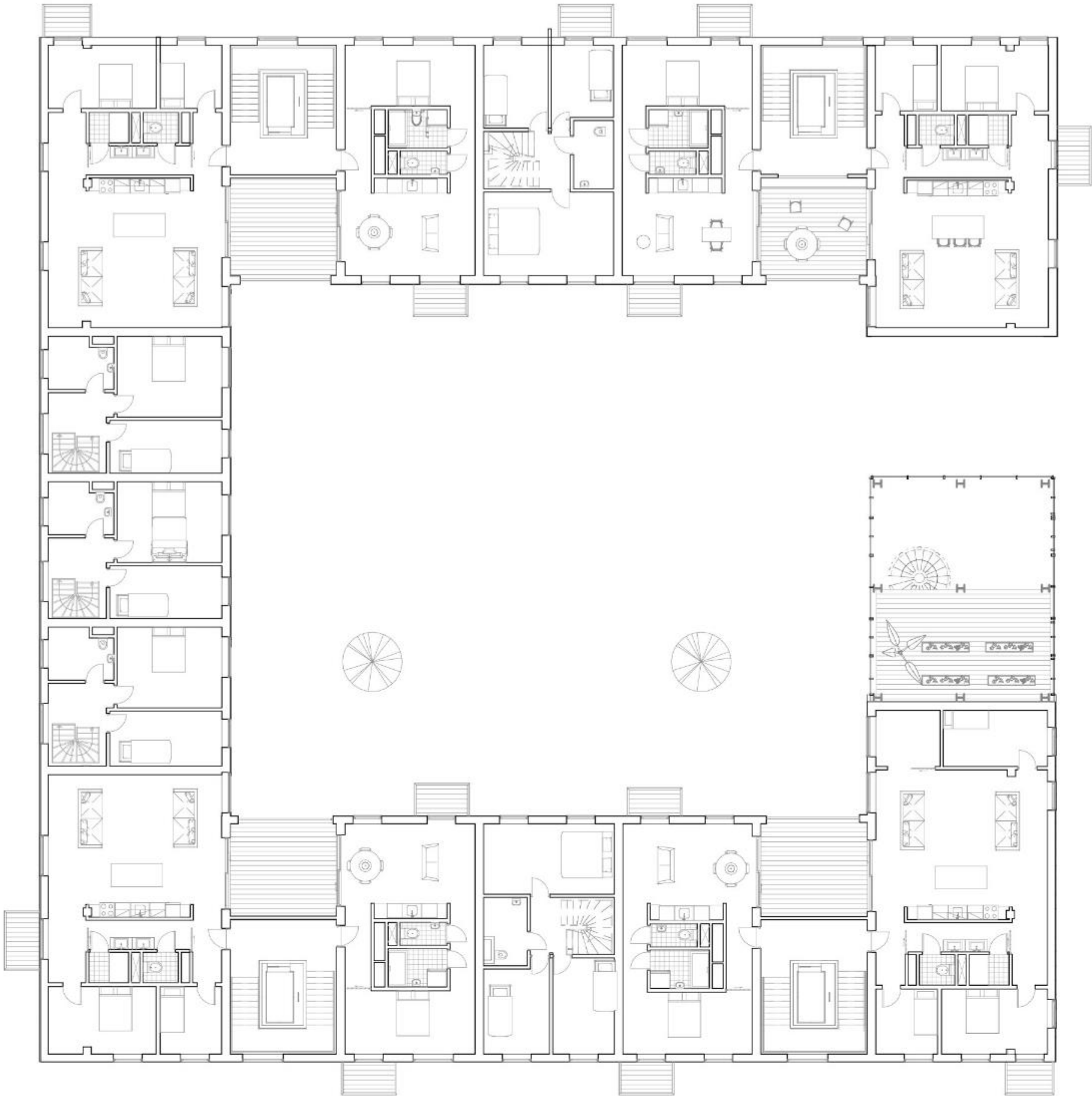


Second floor

- 1 Shared mobility
- 2 Bike storage
- 3 Storage
- 4 Technical space

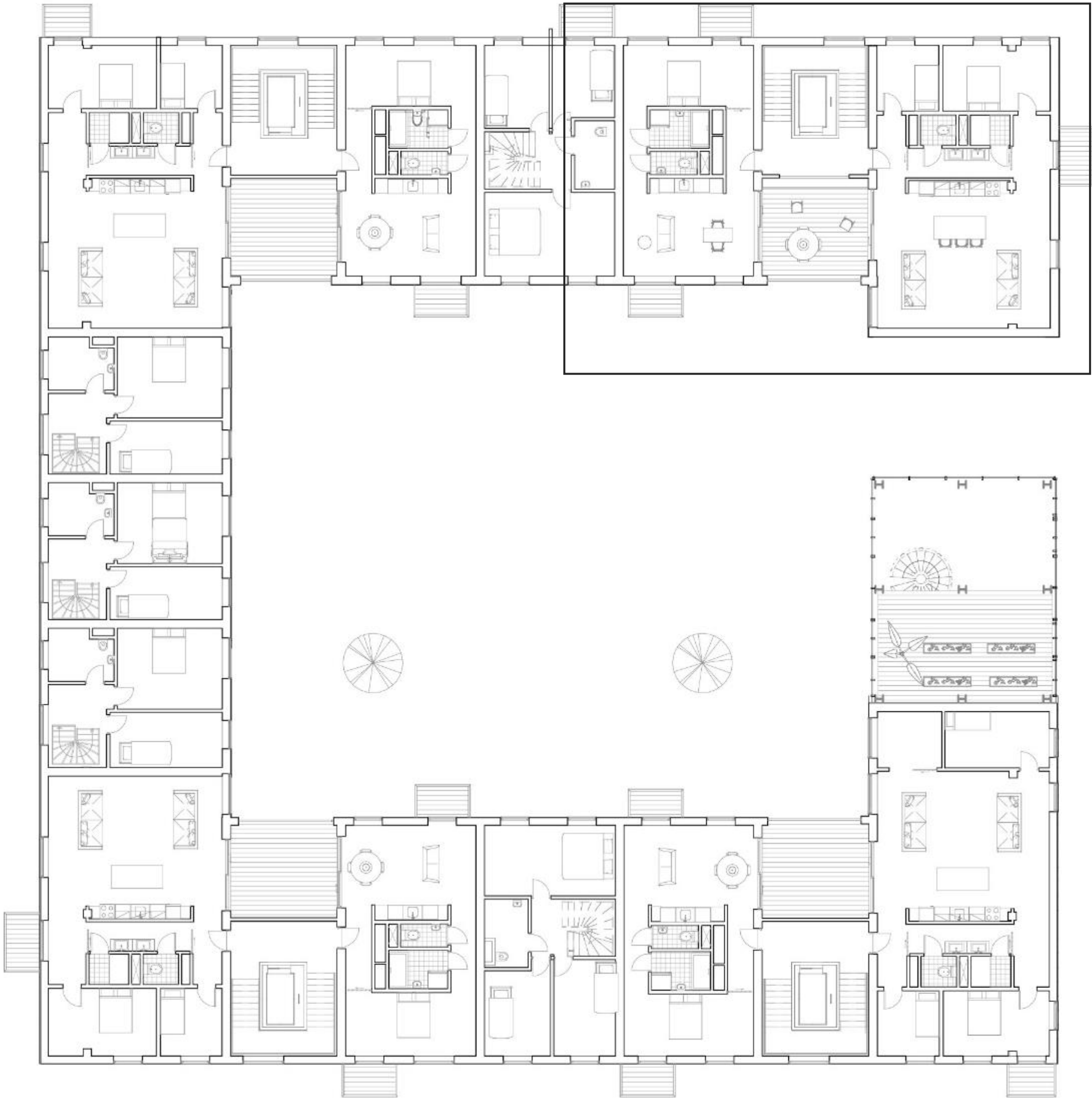


0 1 2 5m



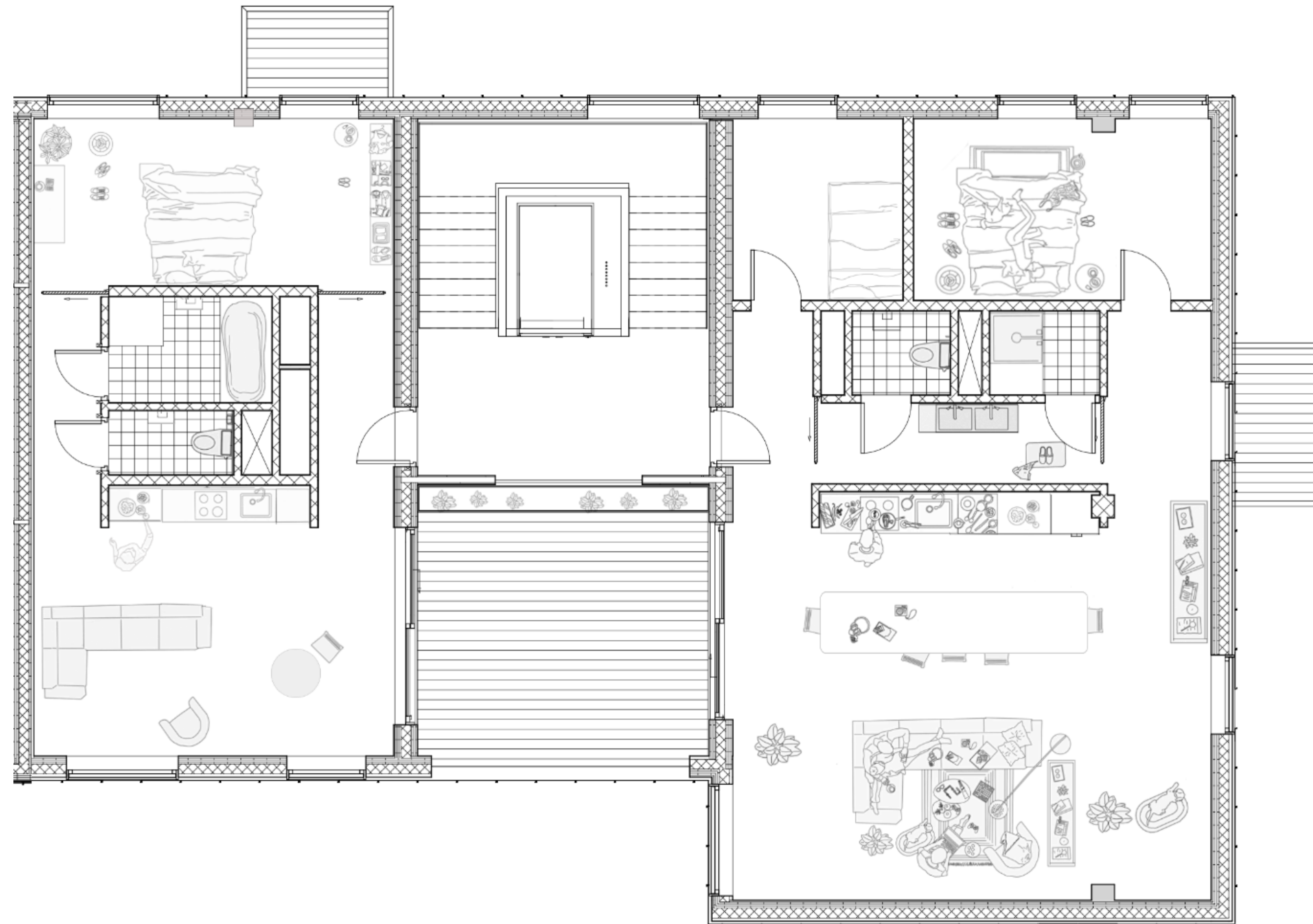
Second floor

- 1 Shared mobility
- 2 Bike storage
- 3 Storage
- 4 Technical space



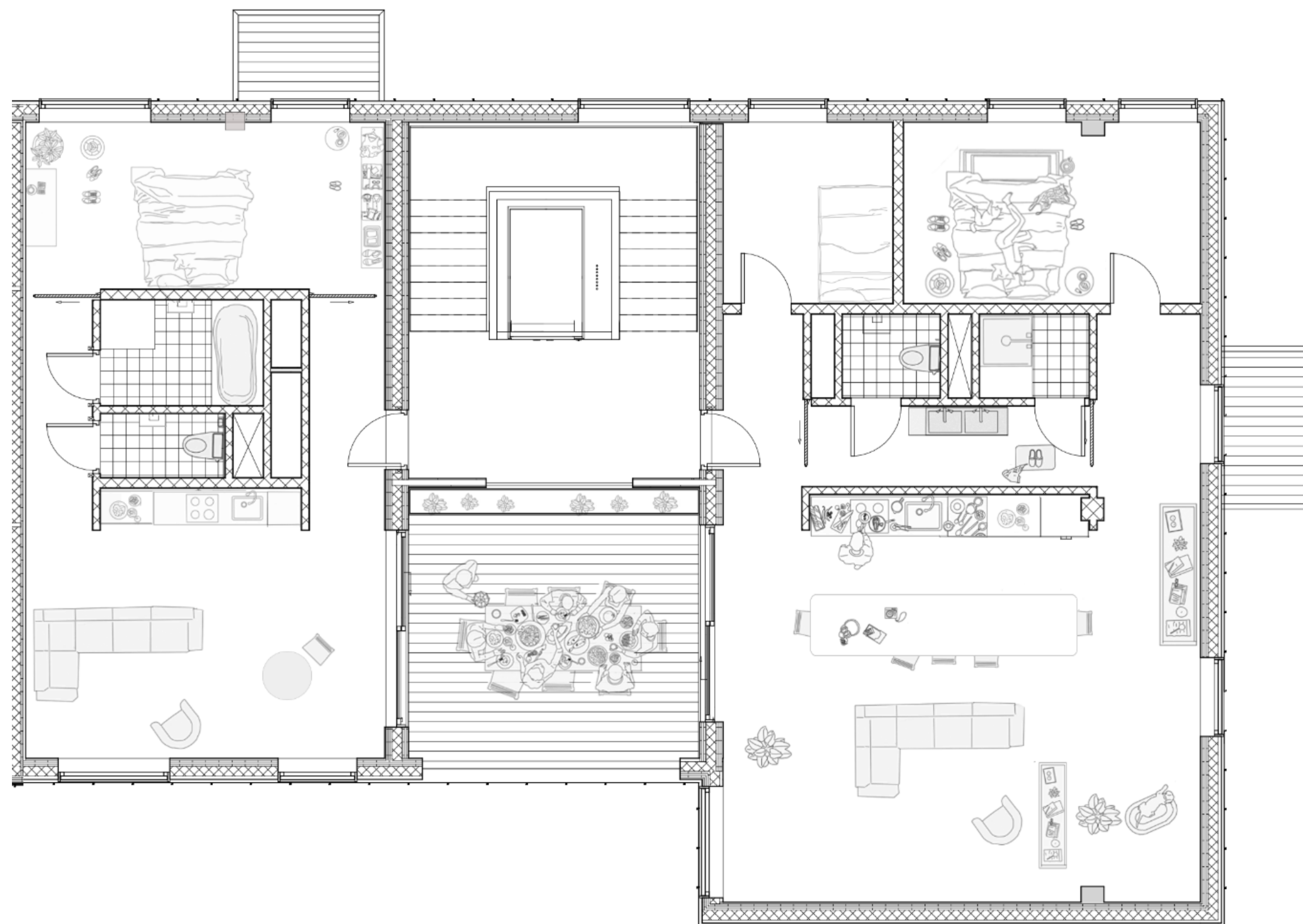
Cluster
1bdr and 2-3bdr

- 1 MK
- 2 Closet
- 3 French balcony
- 4 Balcony

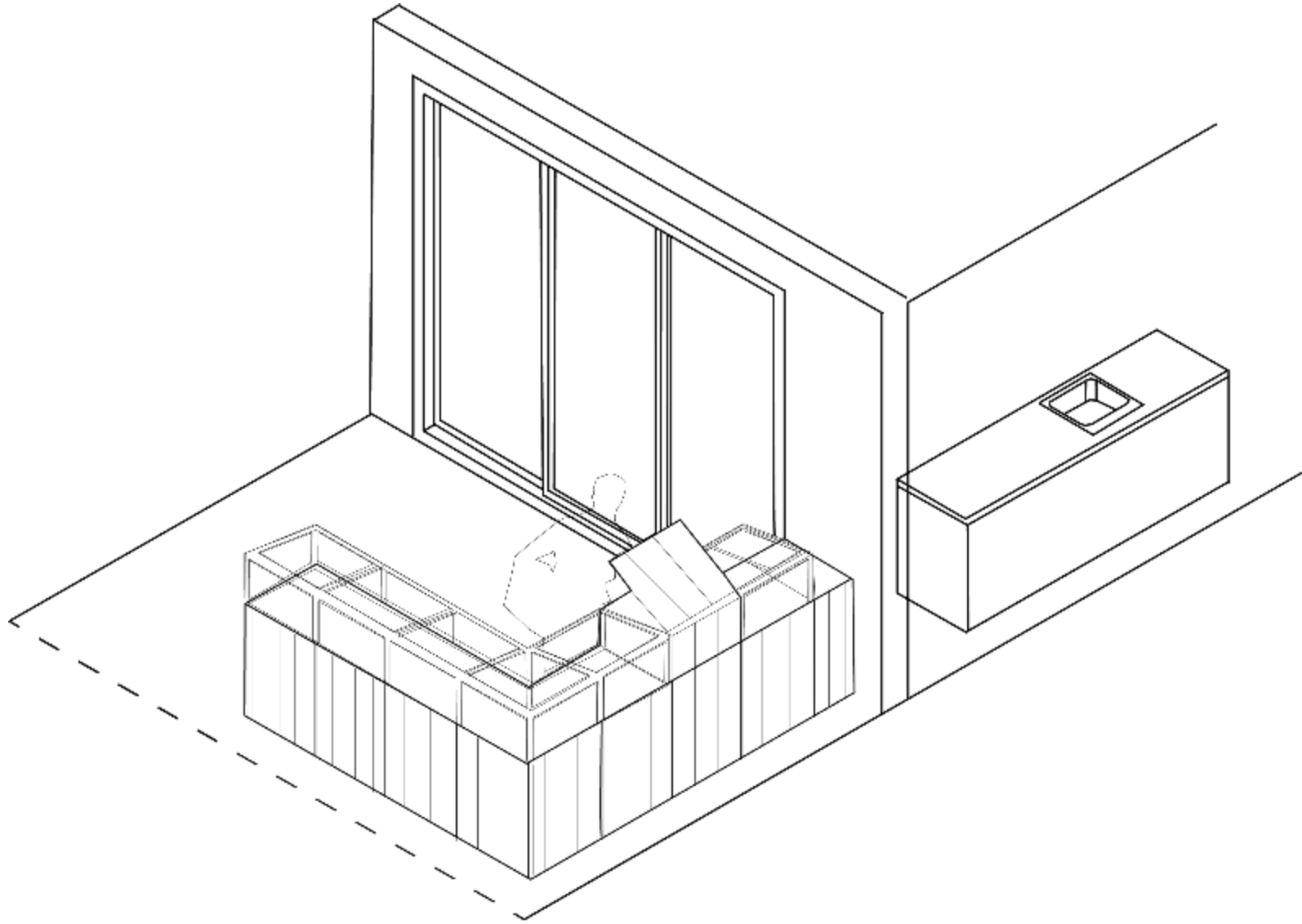


Cluster
1bdr and 2-3bdr

- 1 MK
- 2 Closet
- 3 French balcony
- 4 Balcony



Isometric terrace



Option 1

Plant pots as a barrier
And groundfloor

Section Terrace

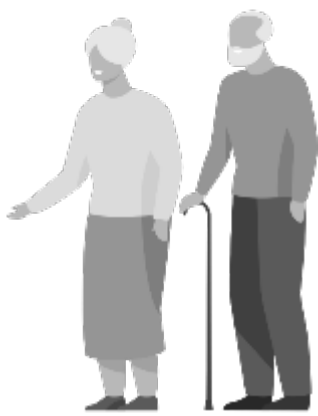
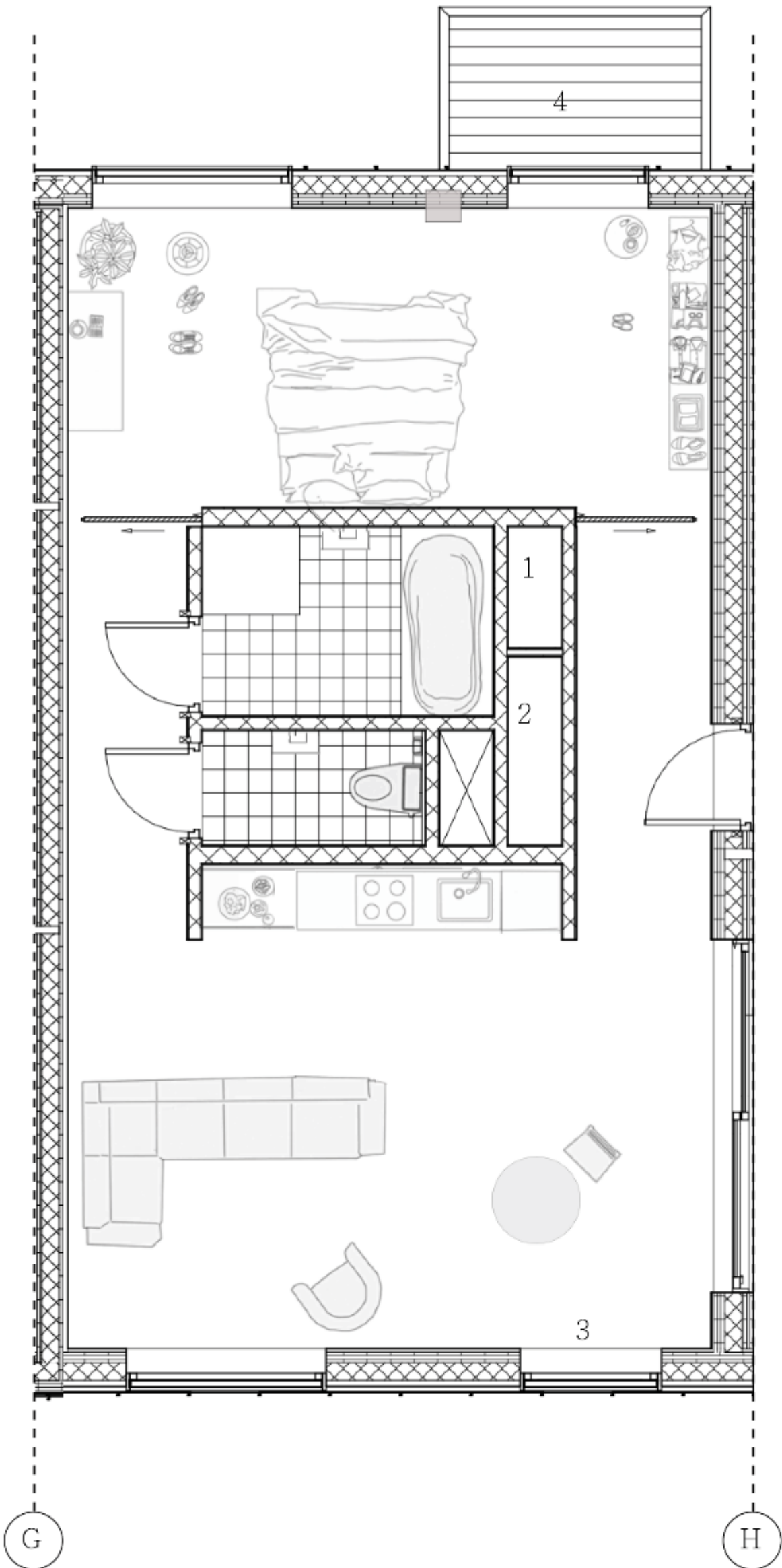


Option 2

Plant pots as a linear connection
And groundfloor

1 bdr- apartment
54 m2

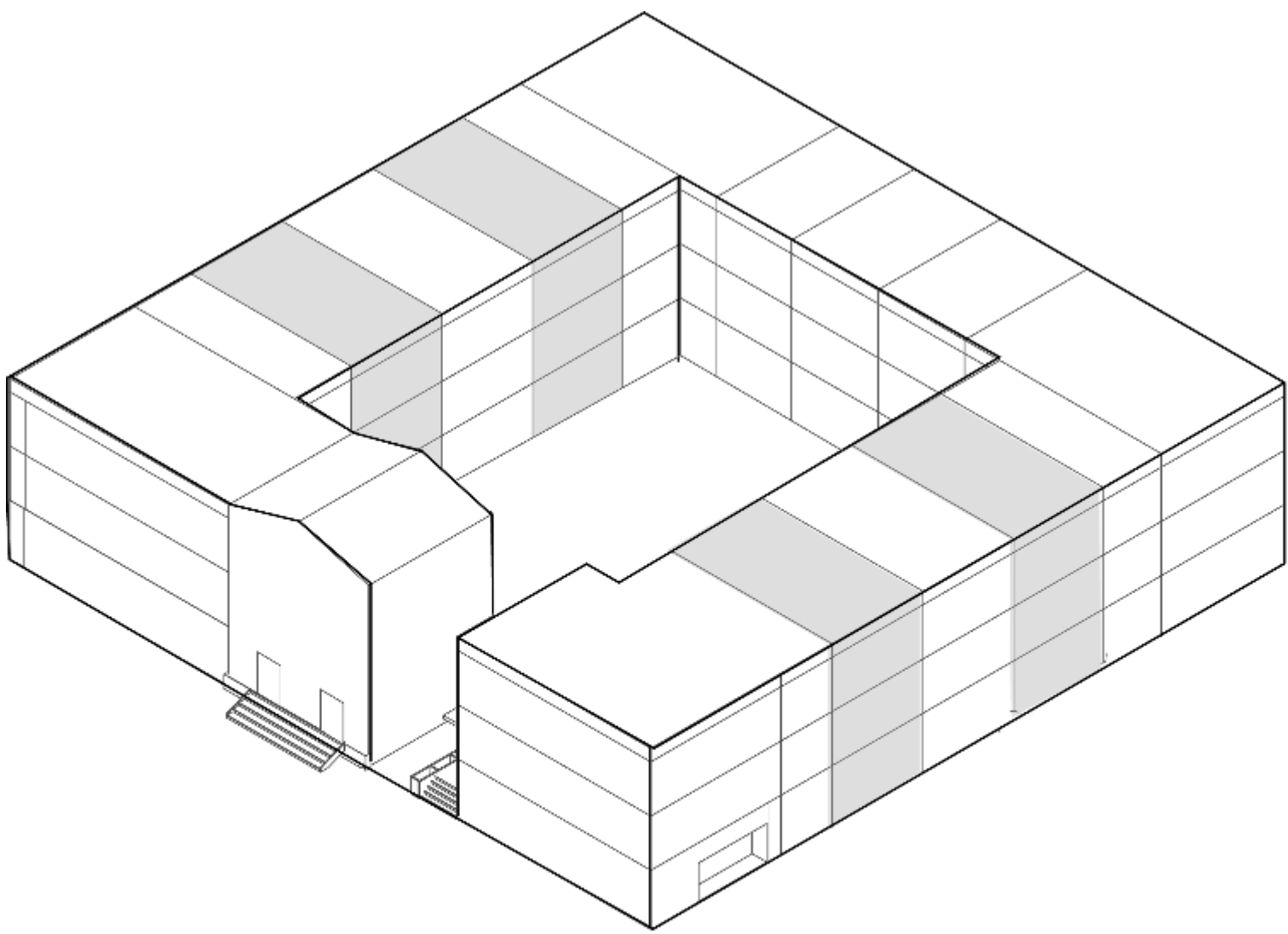
- 1 MK
- 2 Closet
- 3 French balcony
- 4 Balcony



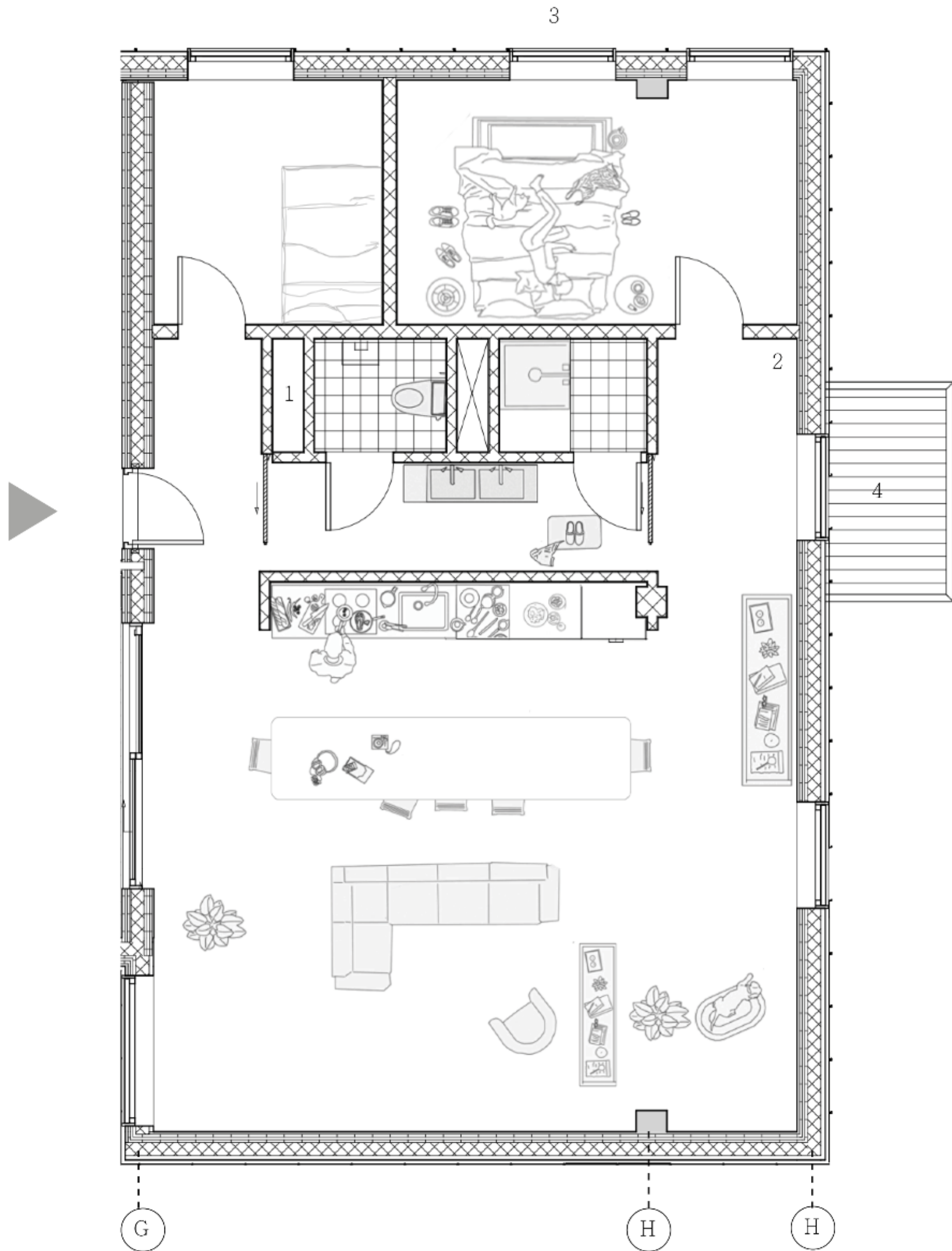
Elderly



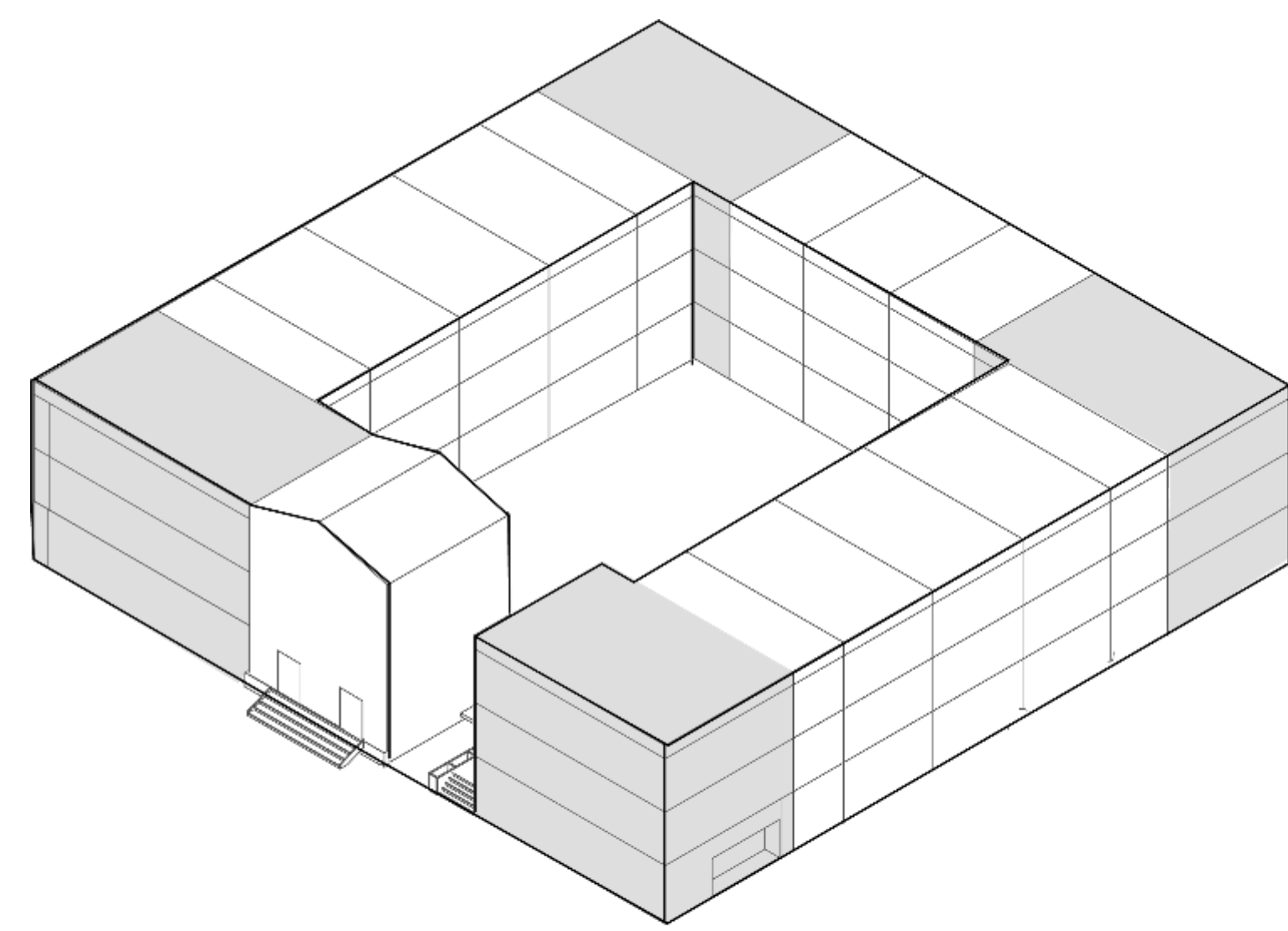
Solo Dweller



2 bdr- apartment
86 m2
1 MK
2 Closet
3 French balcony
4 Balcony

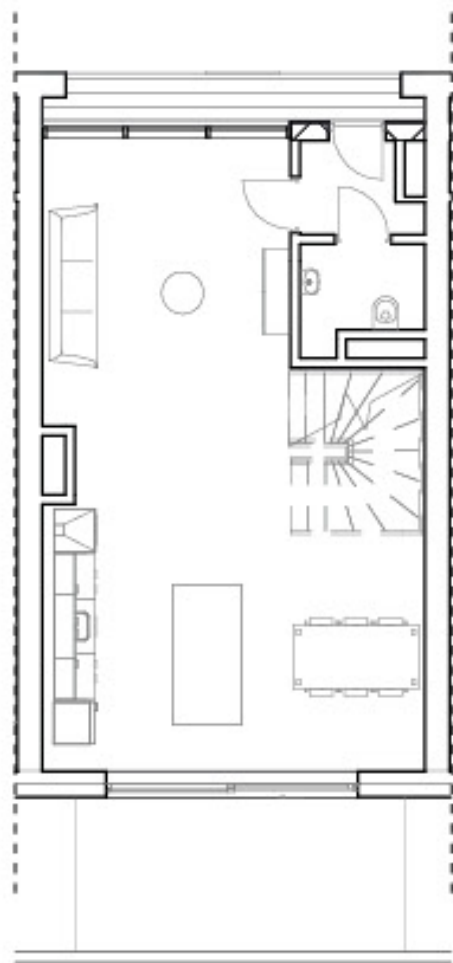


F a m i l y ' s

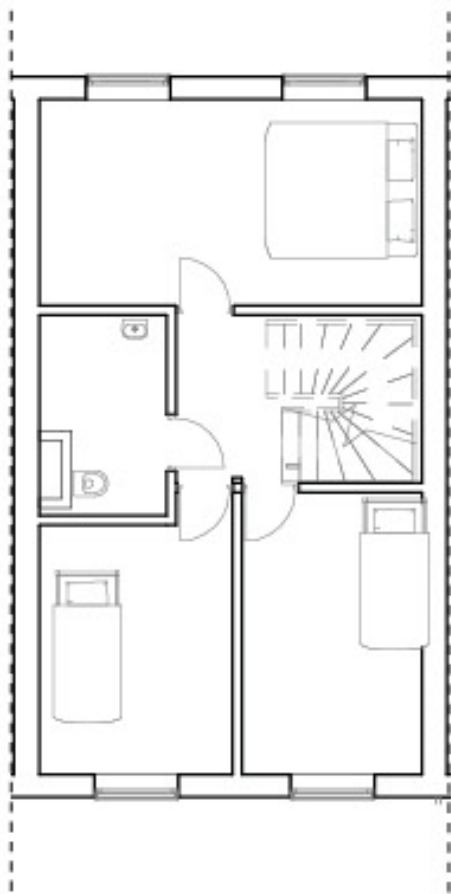




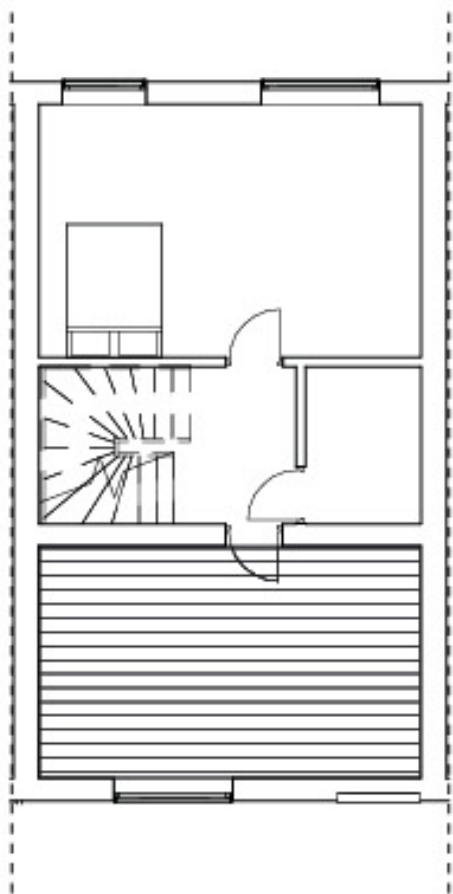
Visualization Dwelling



Ground floor



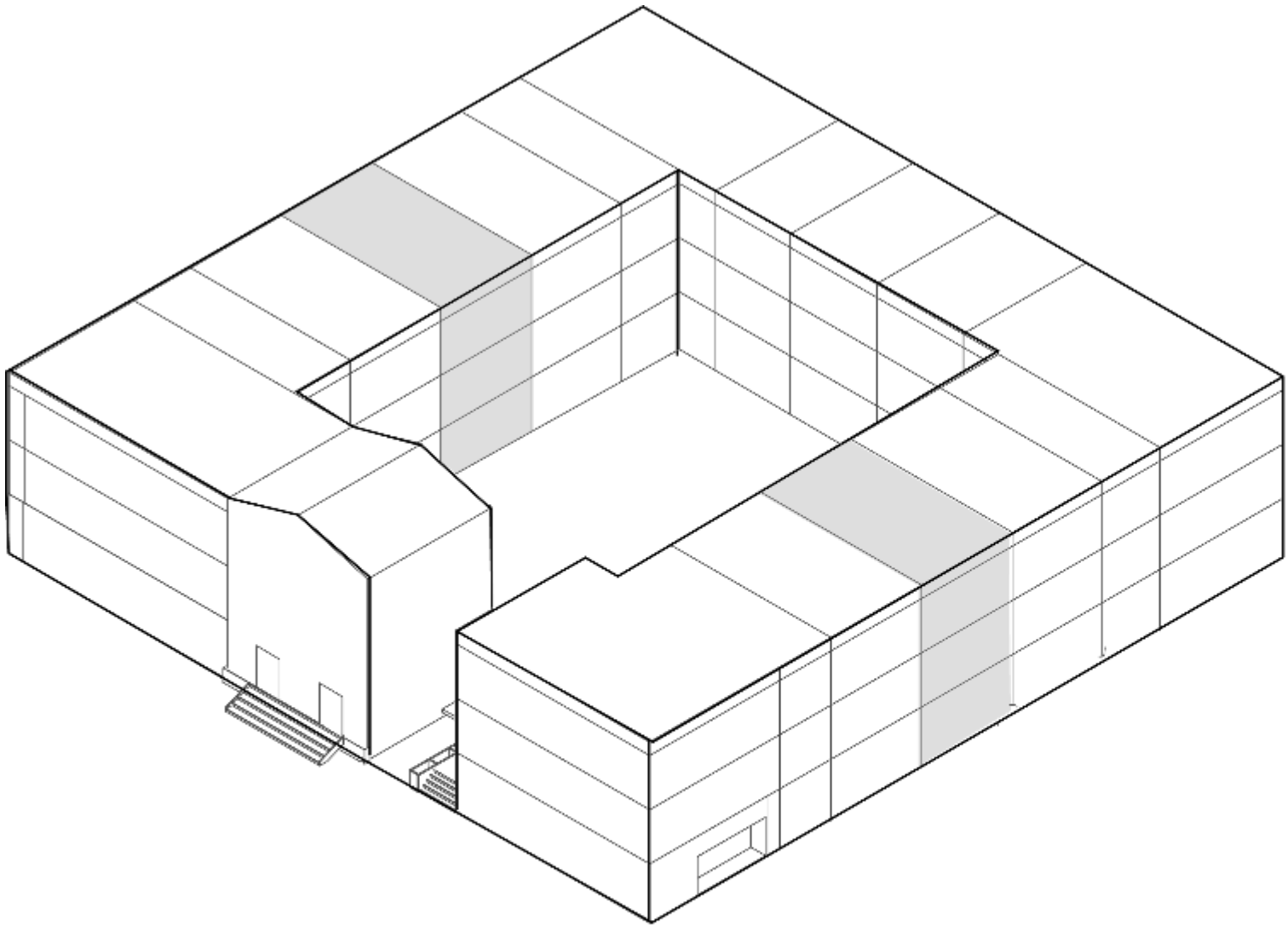
First floor



Second floor



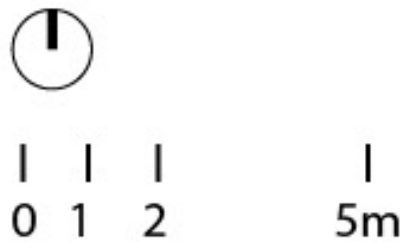
F a m i l y ' s

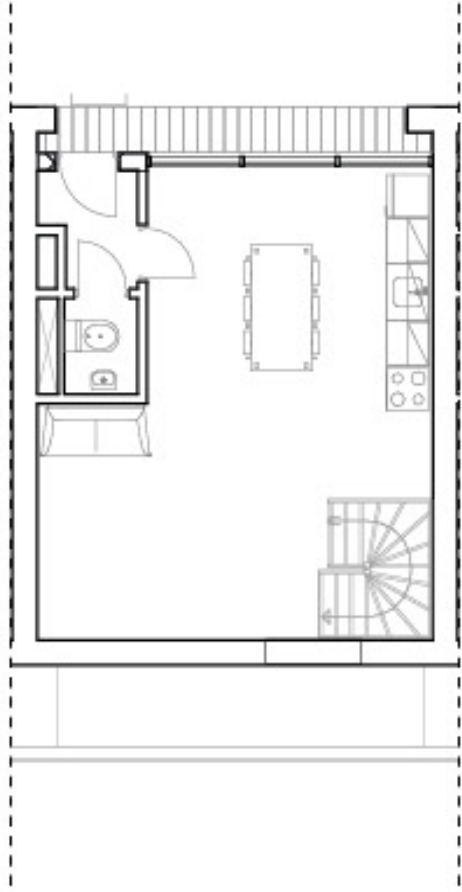


Urban villa

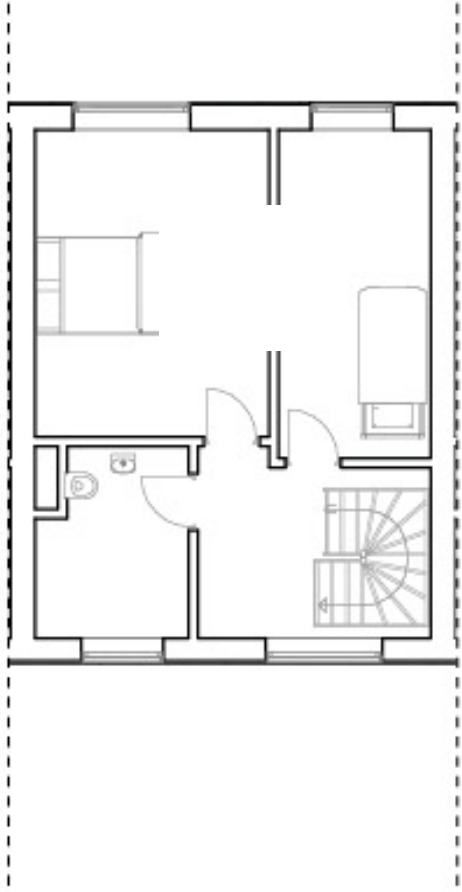
130 m2

Amount: 2

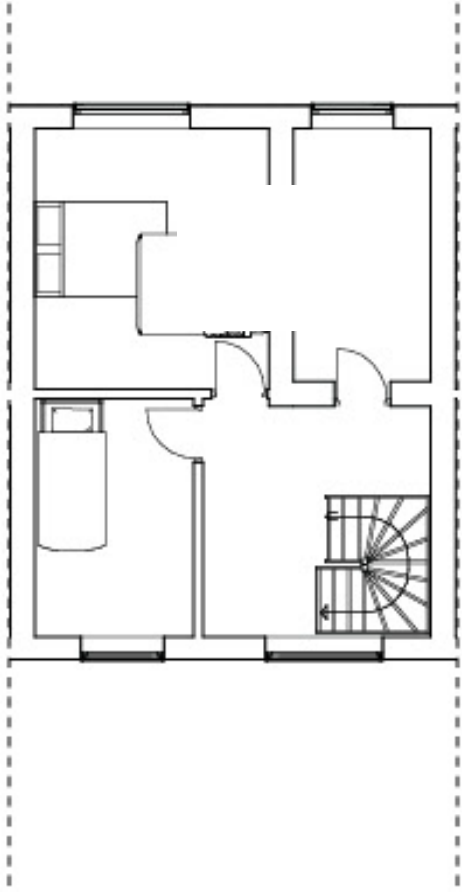




Ground floor



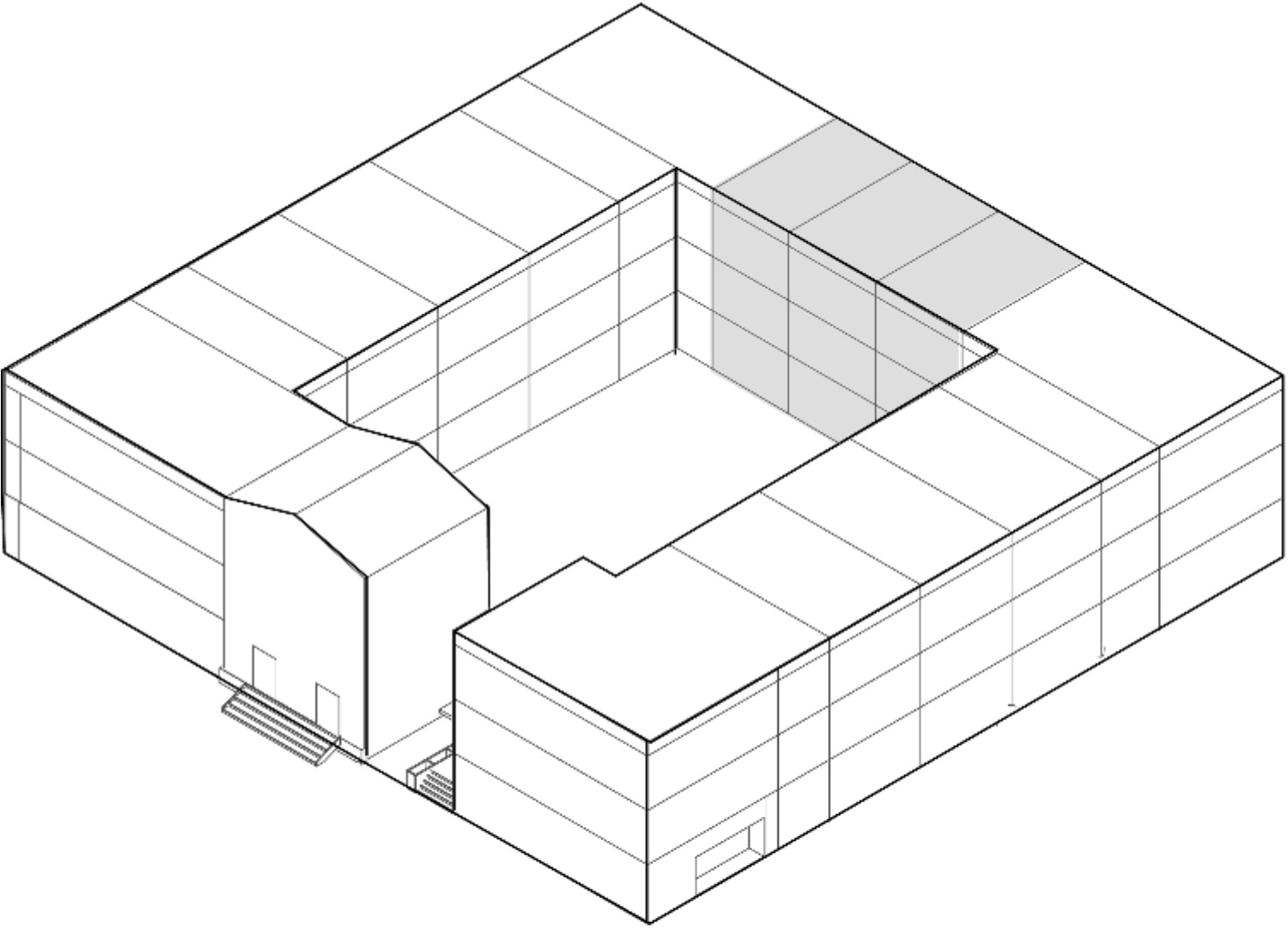
First floor



Second floor



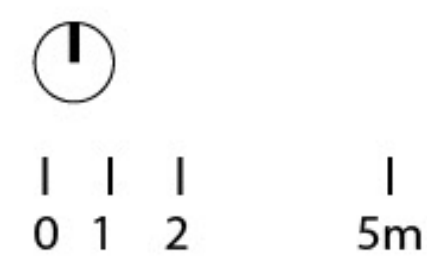
F a m i l y ' s



Townhouse

110m2

Amount: 3



Materialization



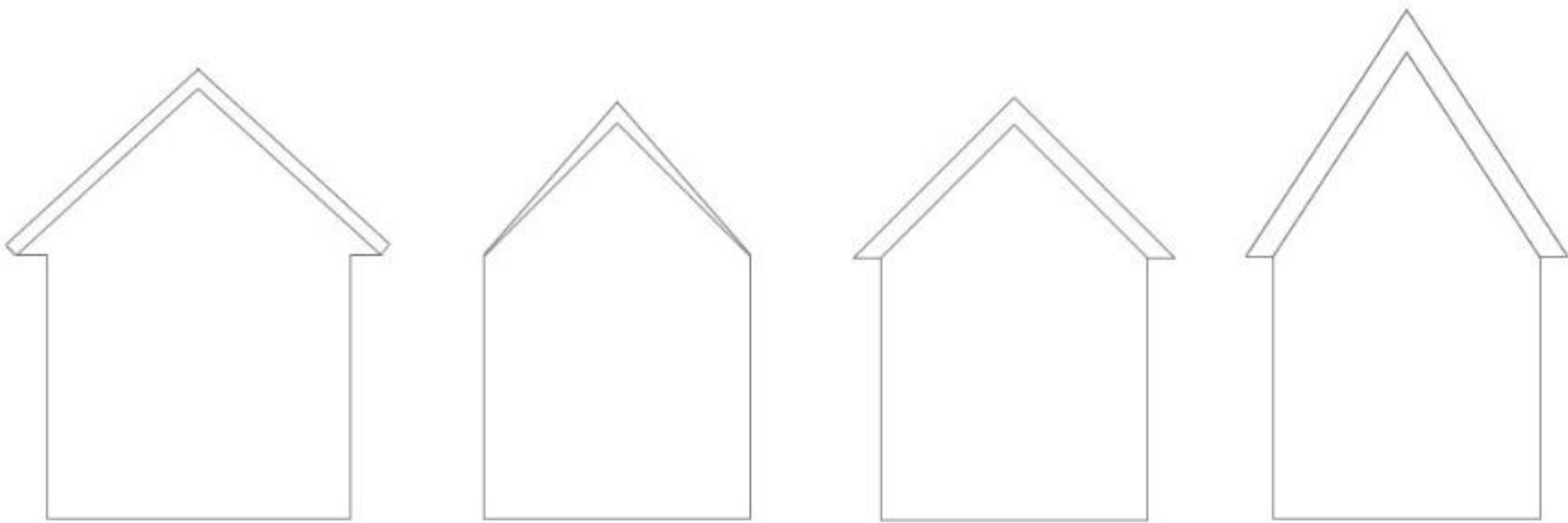
1



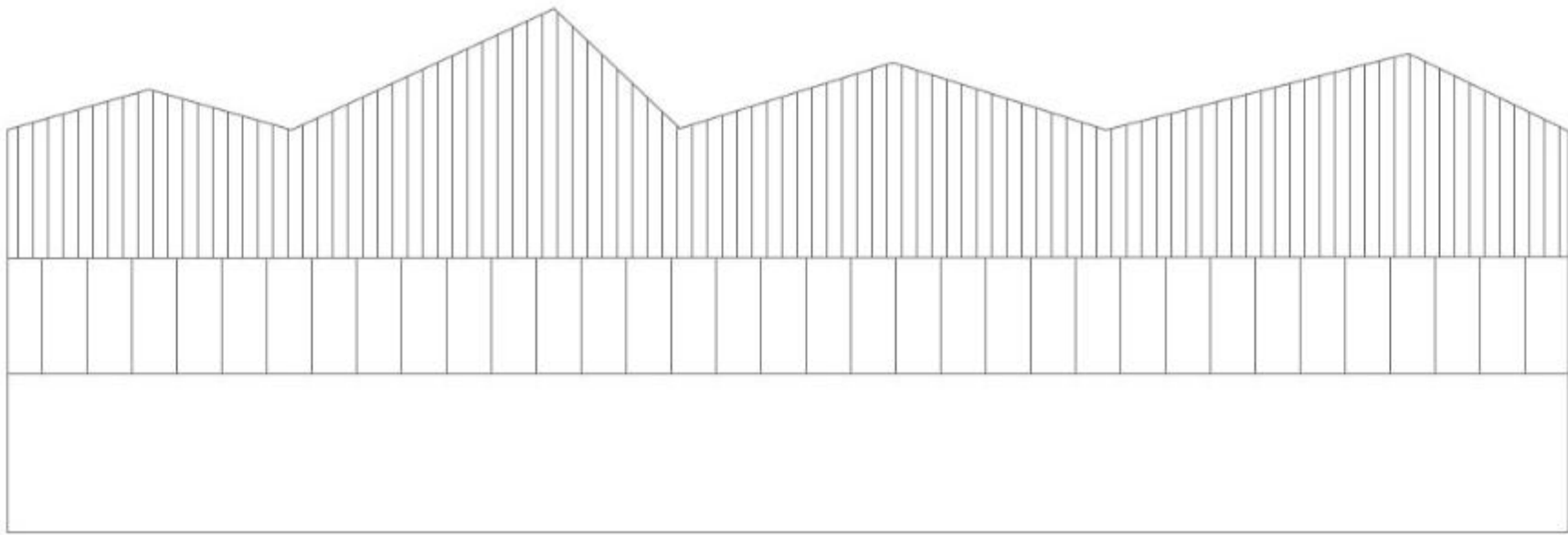
2

Façade

- 1 Zinc Pigmento Brown
- 2 Brick Rainbow Silver



The sloping roofs emphasize the typology of the residential building and seek a connection with the typical archetype of ‘the single-family dwelling’.



The brick architecture ensures harmony with the materialization of the town houses in the immediate surrounding.



Elevation
South



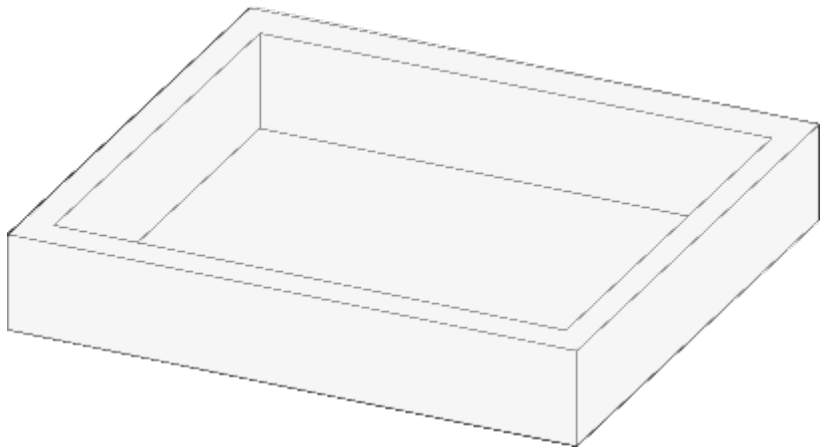
0 1 2 5m



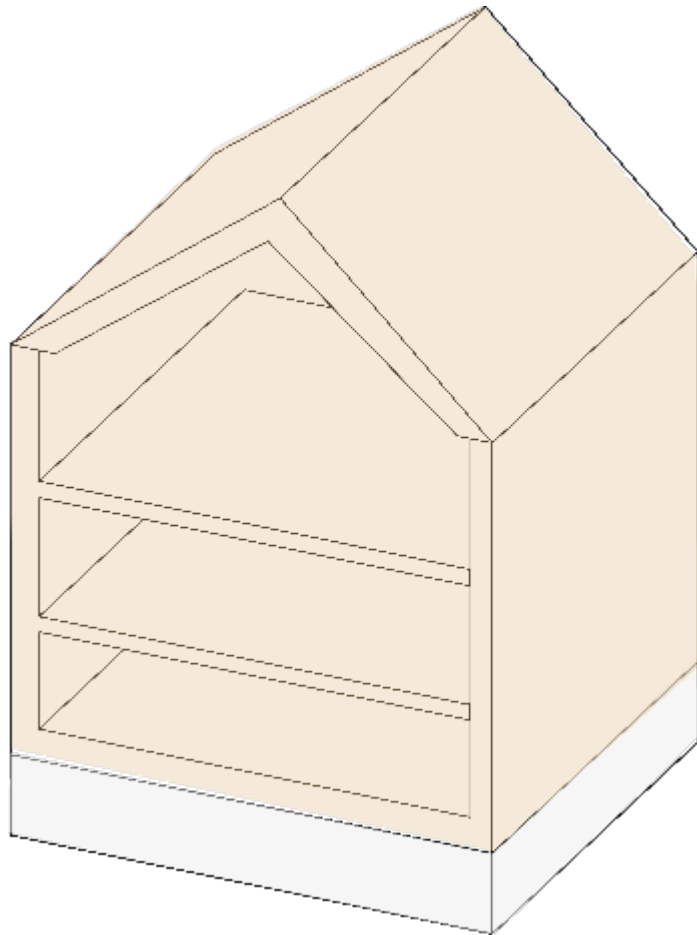
Elevation
East



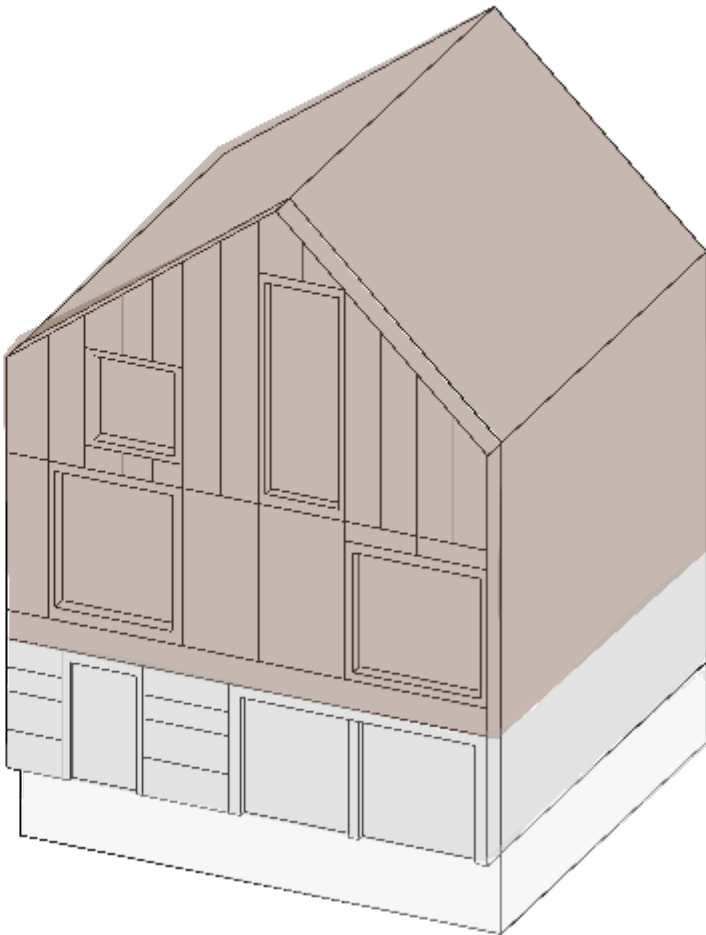
Construction



Concrete basement



CLT load-baring structure
Floors/walls/roof

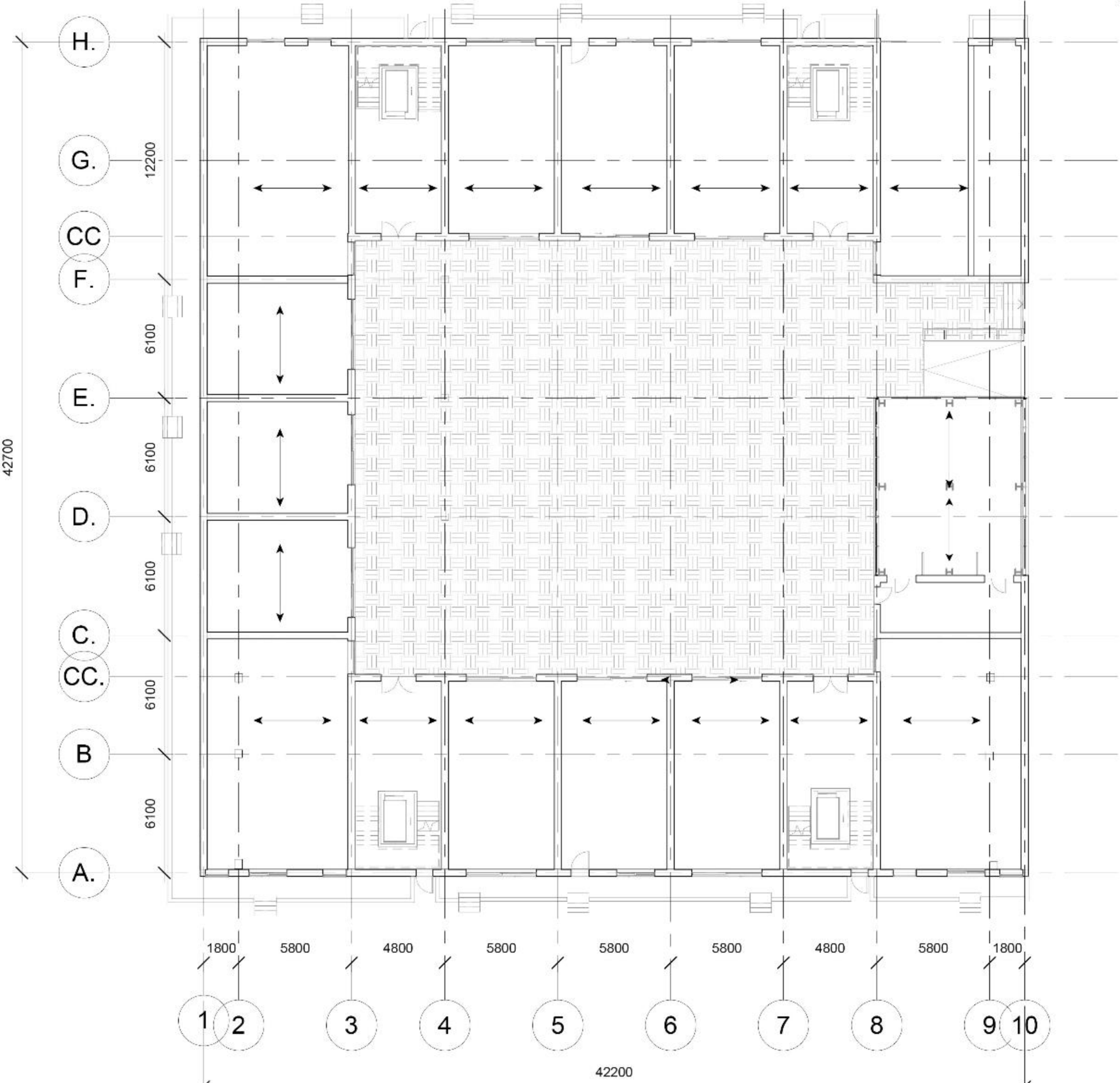


Prefab skin
Brick strips
Zinc cladding

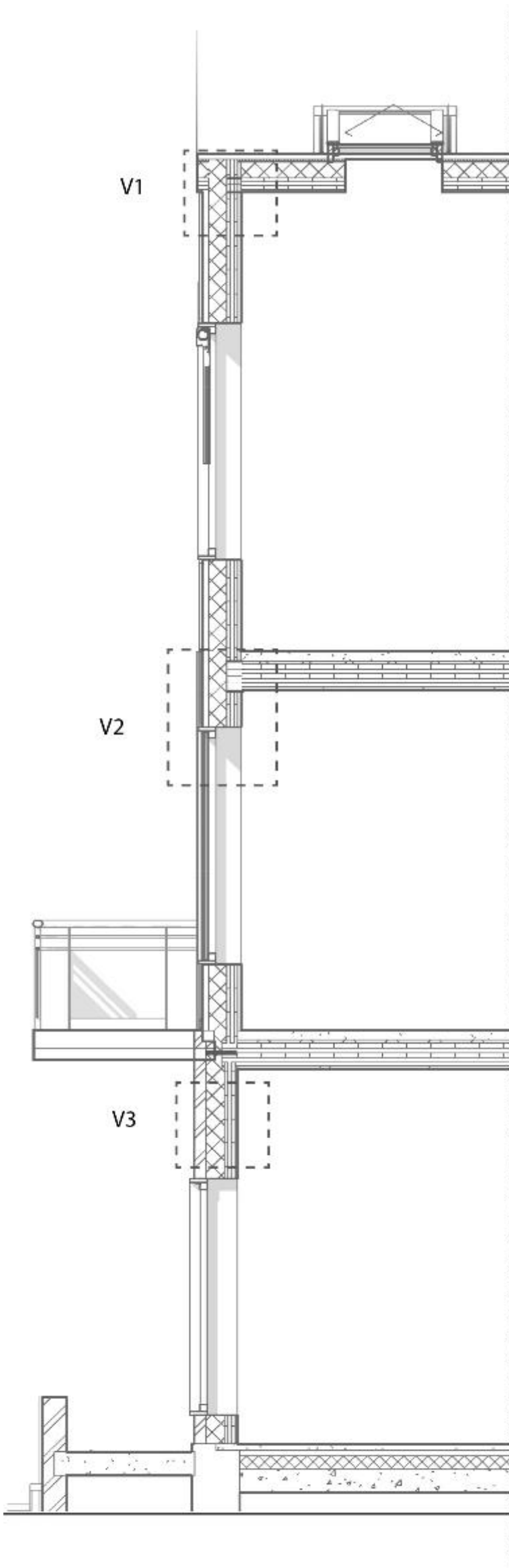
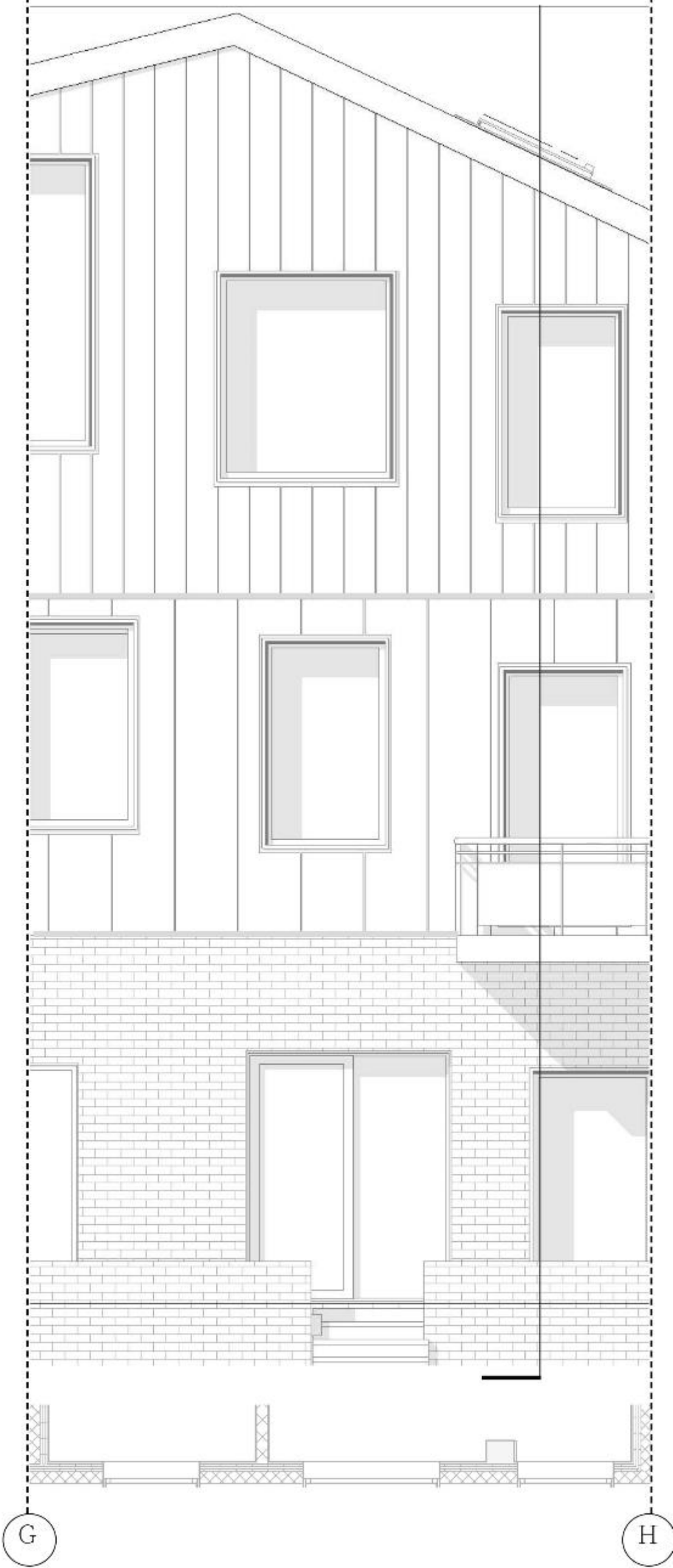
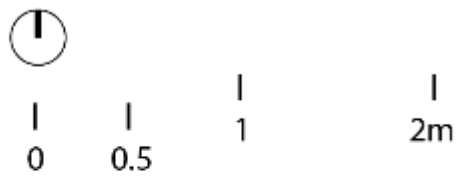
- Concrete
- Brick
- CLT
- Zinc

Construction

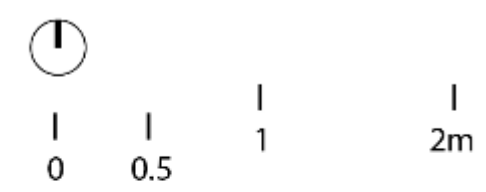
- Concrete
- Brick
- CLT
- Zinc



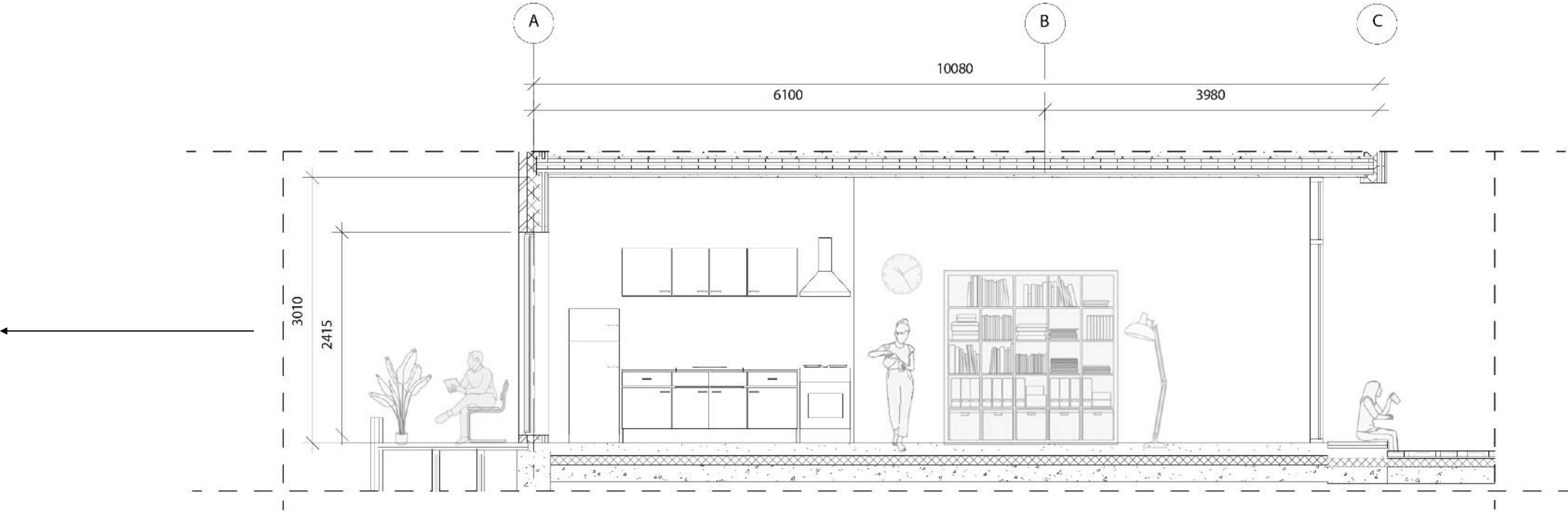
Fragment



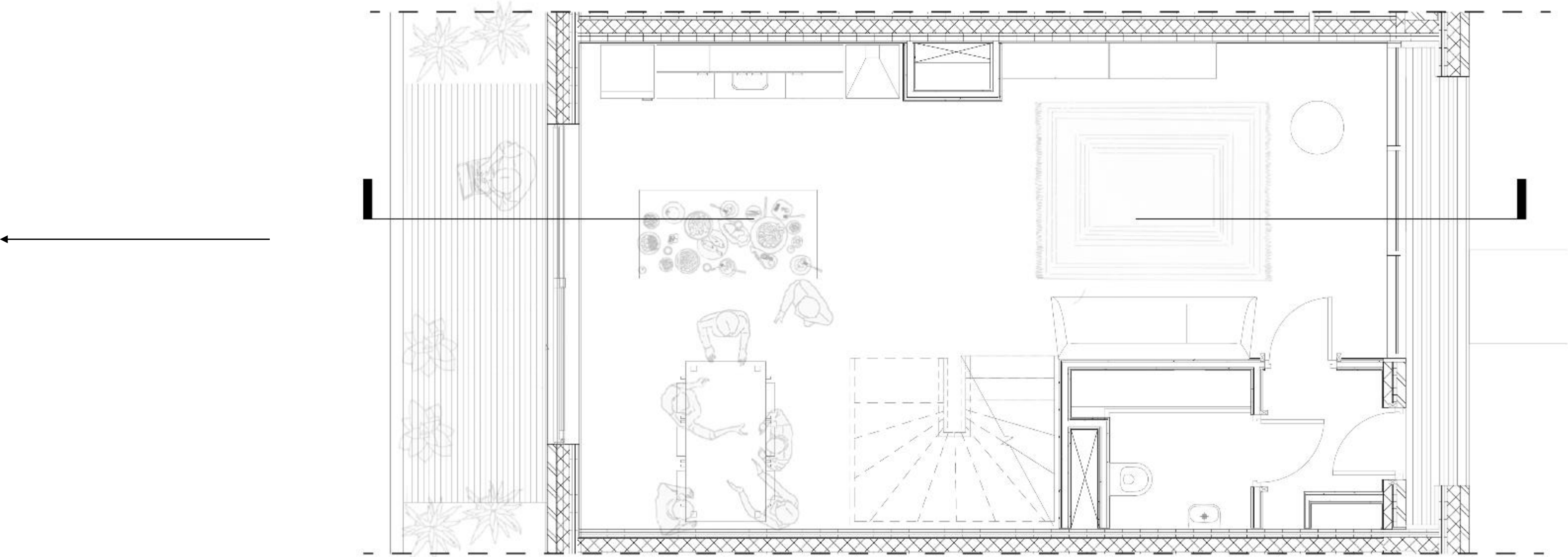
Fragment



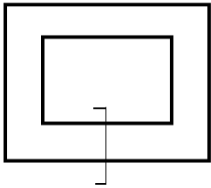
Section Dwelling
typology Townhouse



Floorplan Dwelling
typology Townhouse

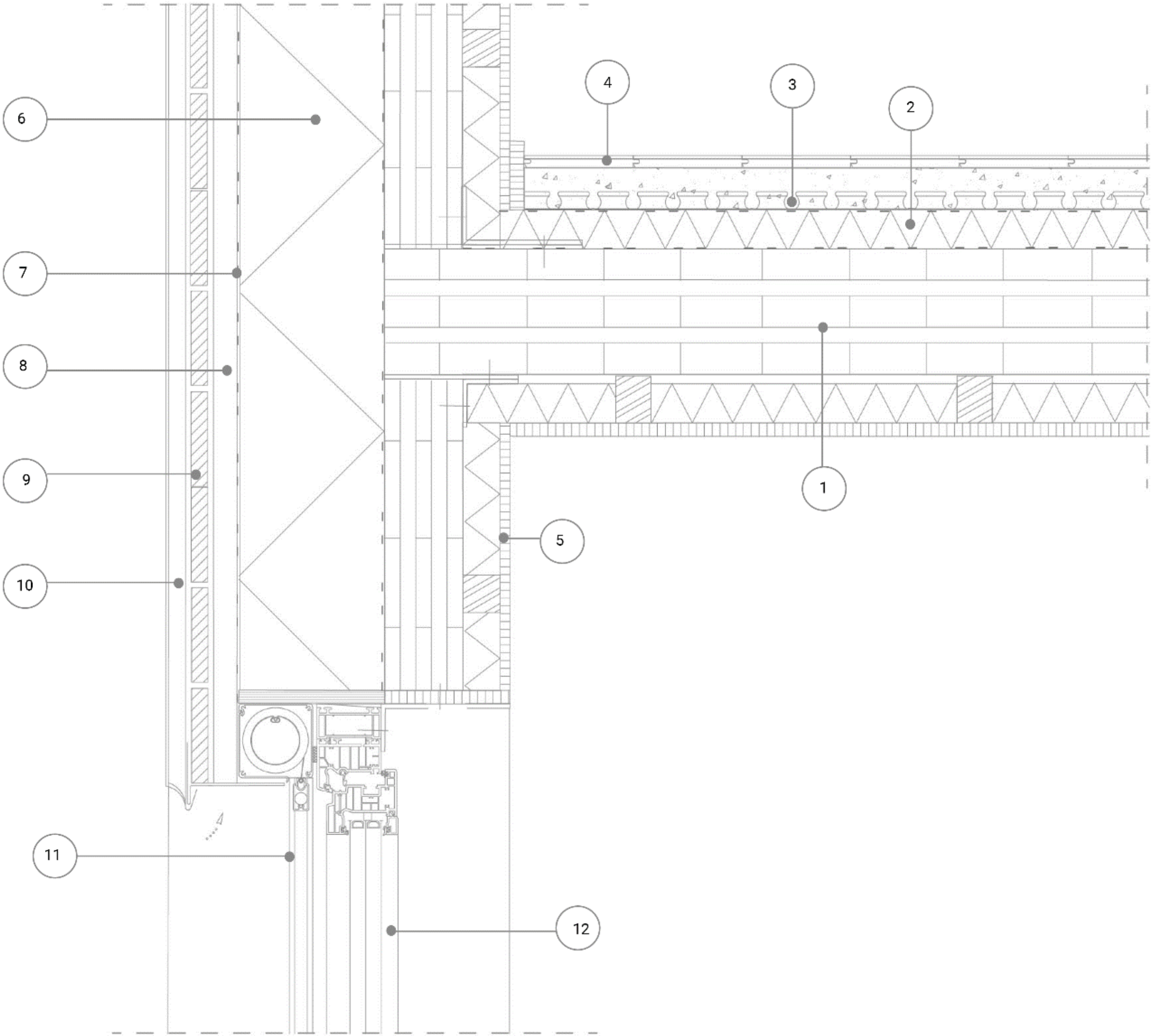


0 0.5 1 2m



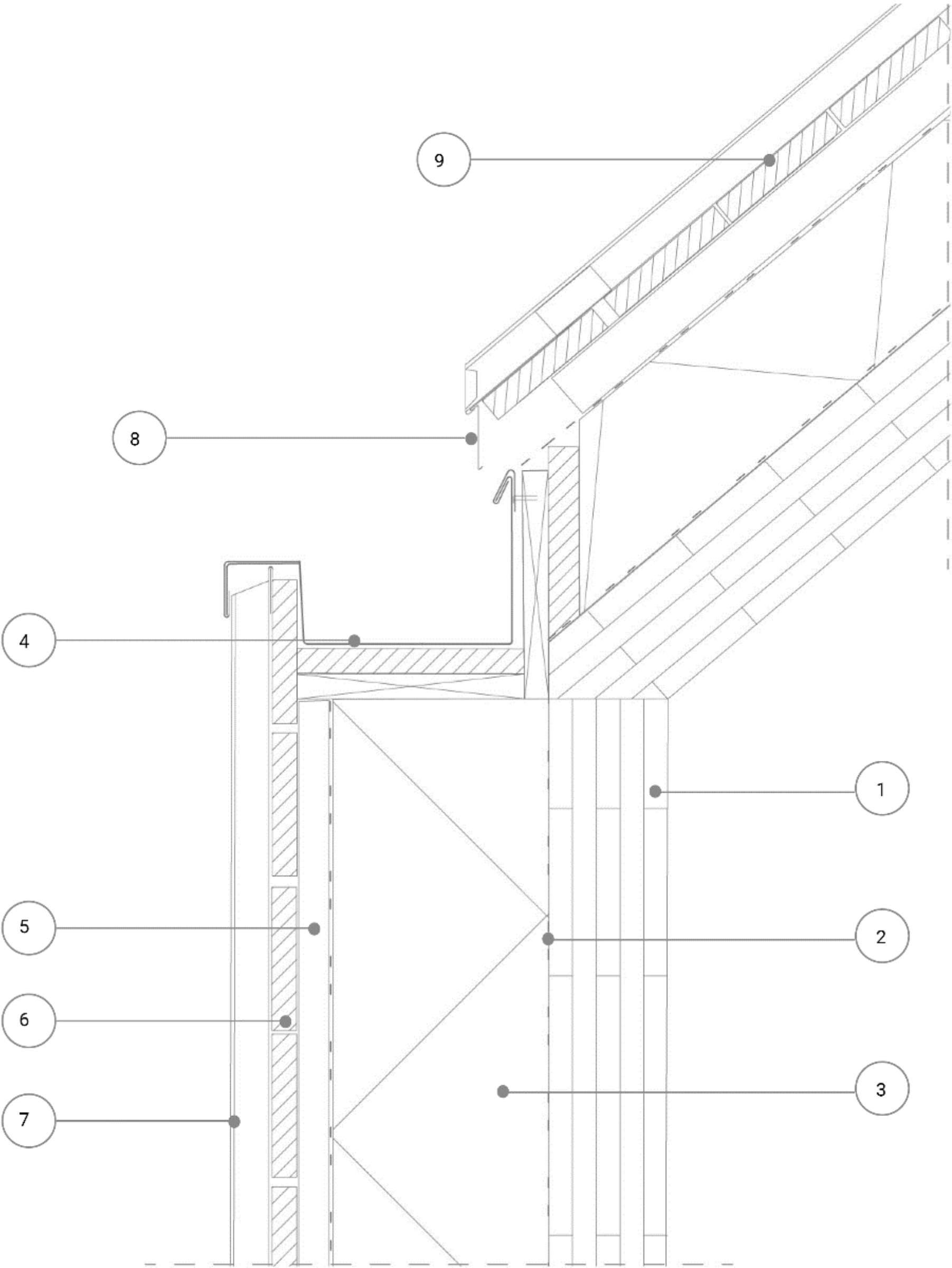
Detail V2

- 1 CLT Load-bearing structure 160mm
- 2 Sound Isolation
- 3 Floor heating Timber floor
- 4 Timber floor
- 5 Gipson wall
- 6 Mineral wool 180mm
- 7 Waterproof layer
- 8 Air shovel
- 9 Multiplex
- 10 Zinc cladding
- 11 Sunshade

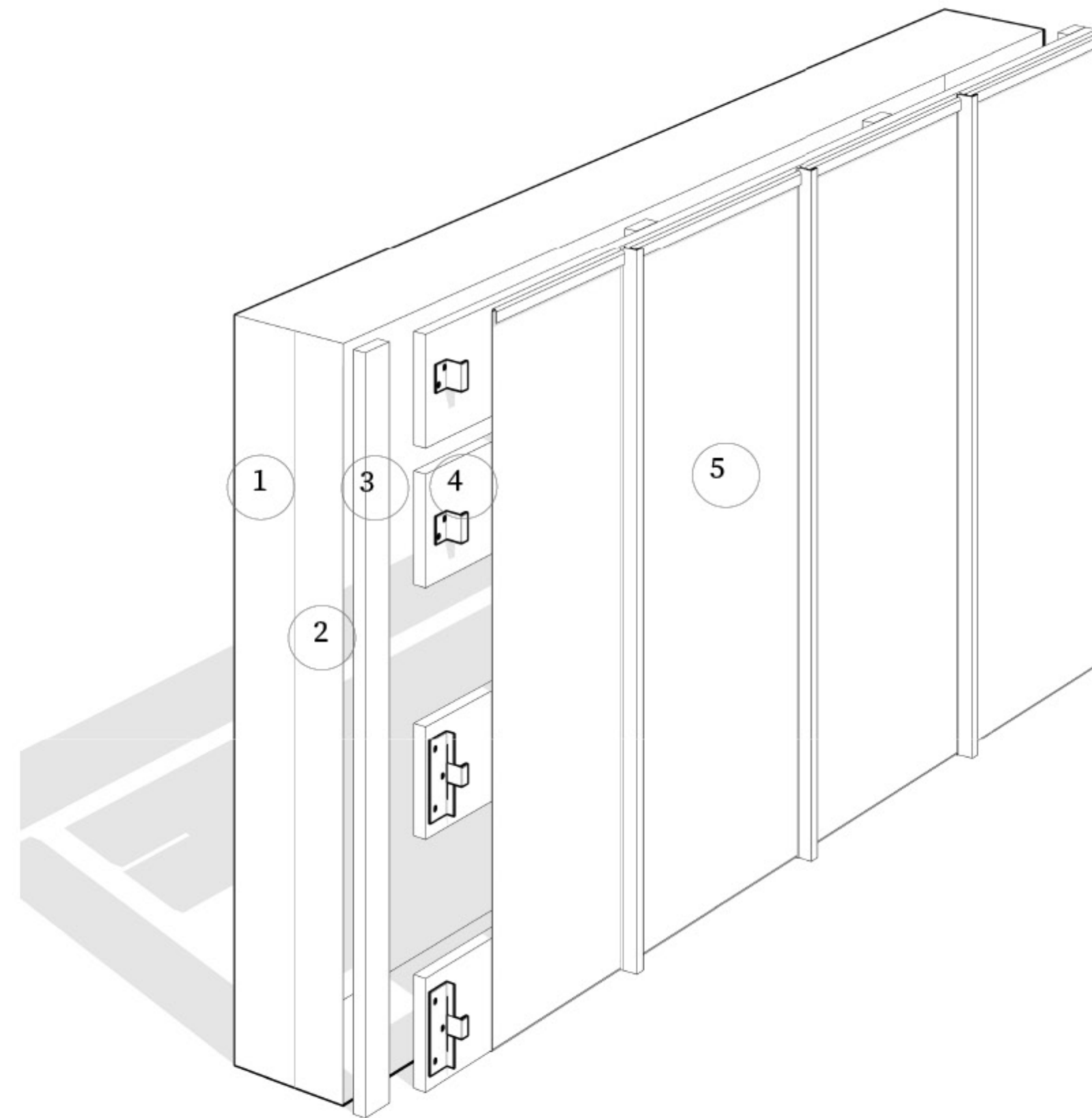


Detail V3

- 1 CLT
- 2 Vapor permeable layer
- 3 Isolation
- 4 Downspout
- 5 Air shovel
- 6 Multiplex
- 7 Zinc cladding
- 8 Drip list
- 9 Seamed band

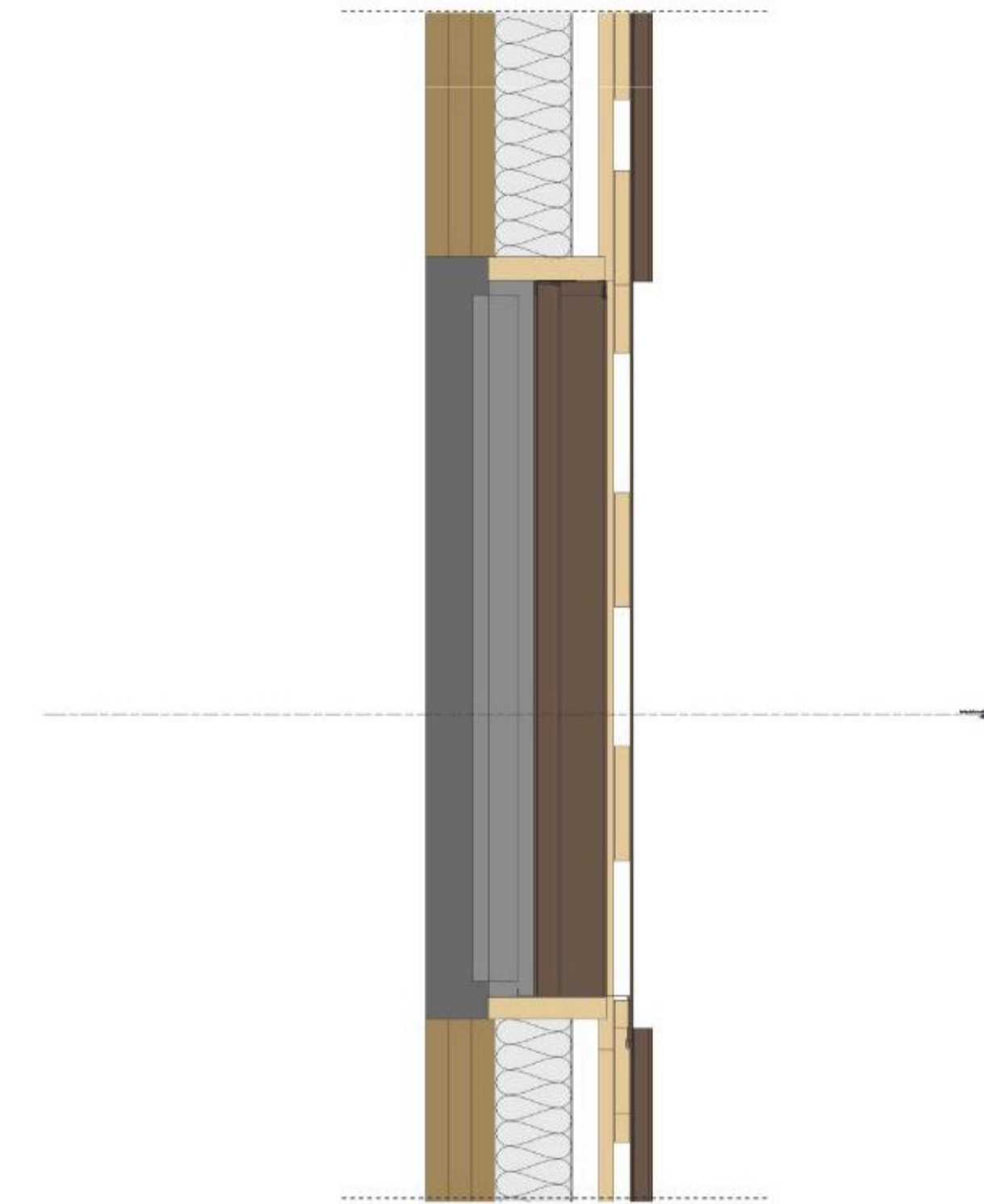


Isometric facade



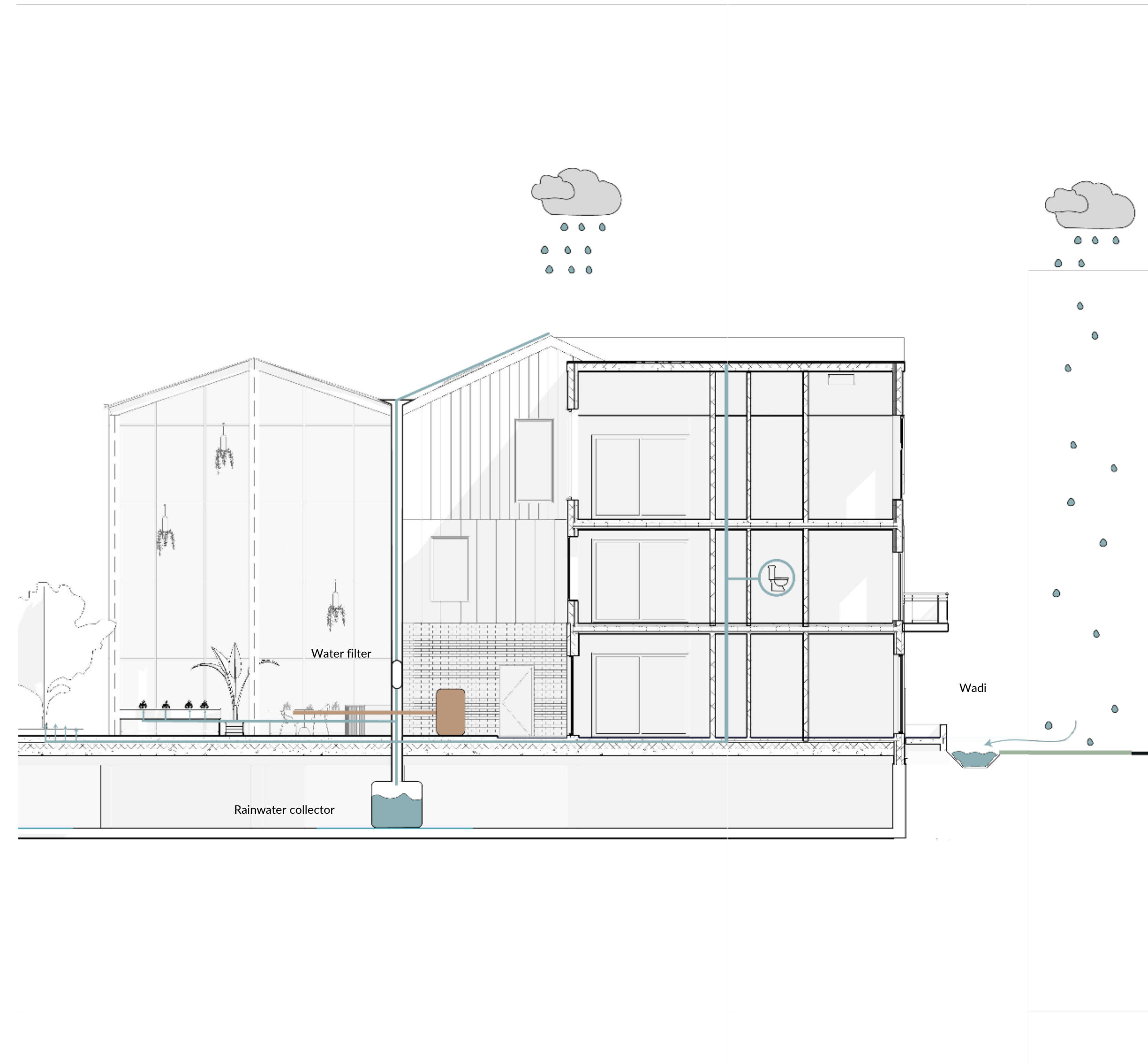
- 1 CLT
- 2 Isolation Vapor permeable layer, Waterproof layer
- 3 Multiplex cladding system
- 4 Aluminum profile
- 5 Zinc

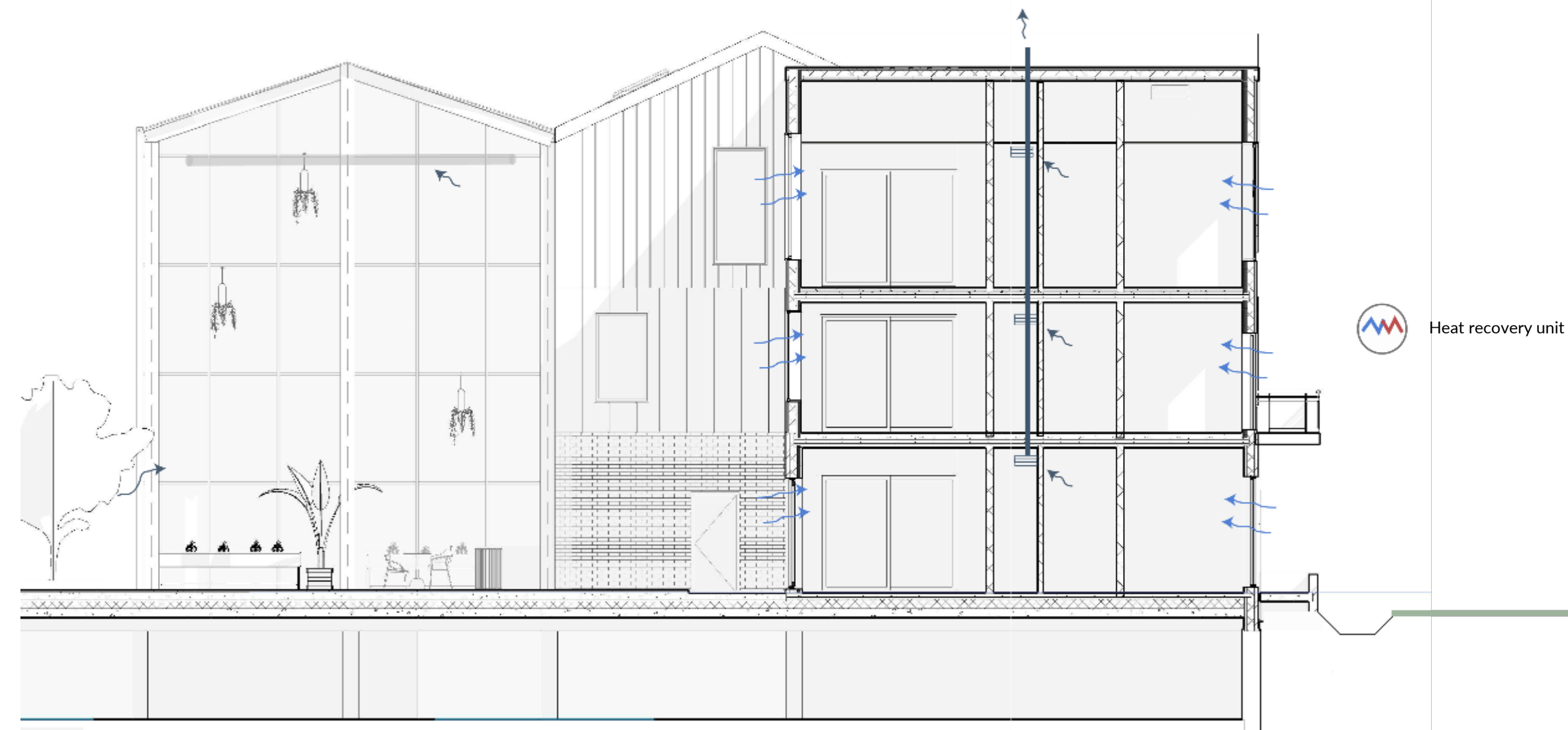
Section facade



Water management

- Rainwater is collected, purified, and utilized to irrigate the plants in the orangery and courtyard.
- Rainwater is collected in the wadi and courtyard's soil.
- The courtyard and orangery stimulate biodiversity.

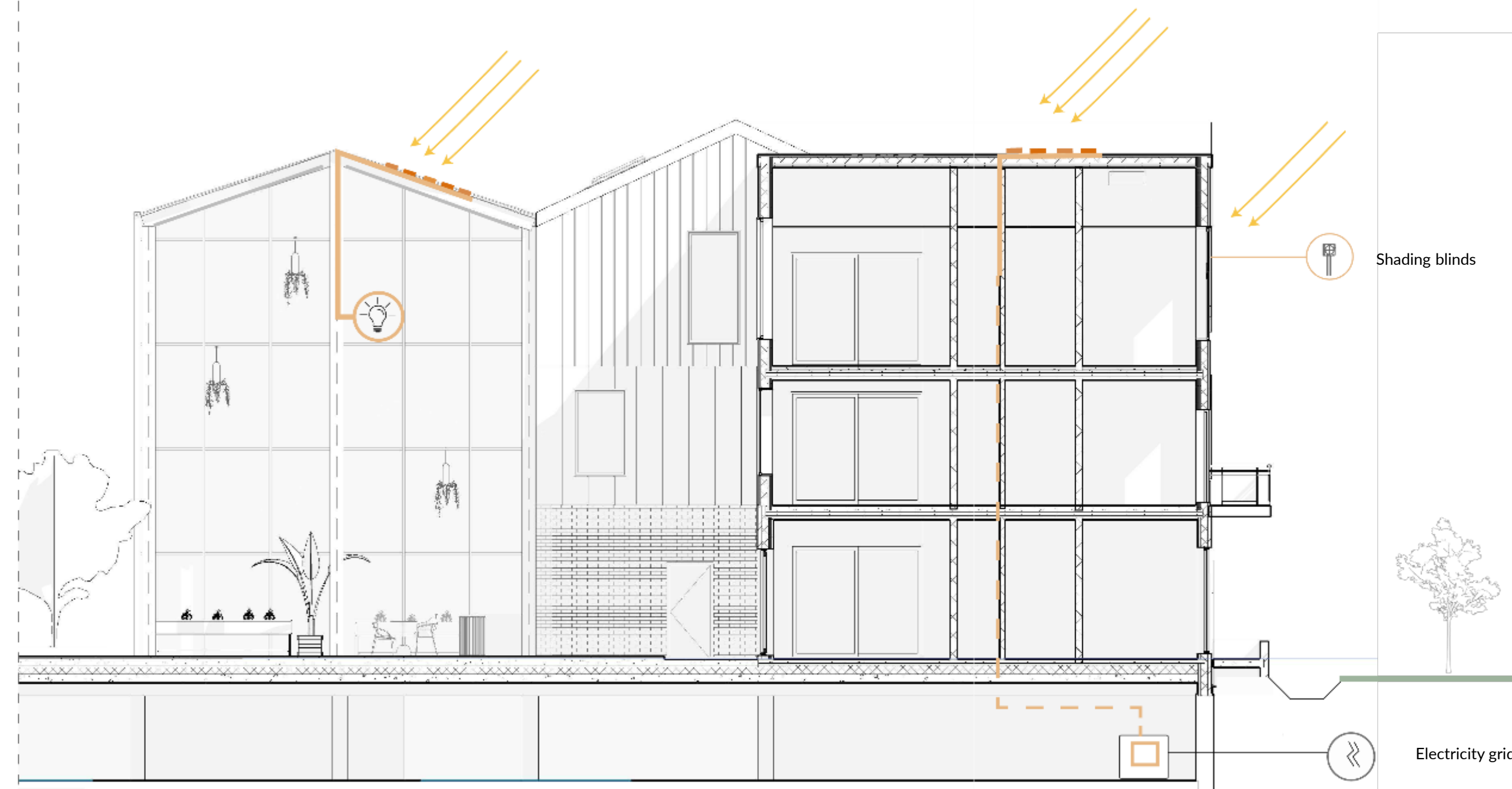




Ventilation

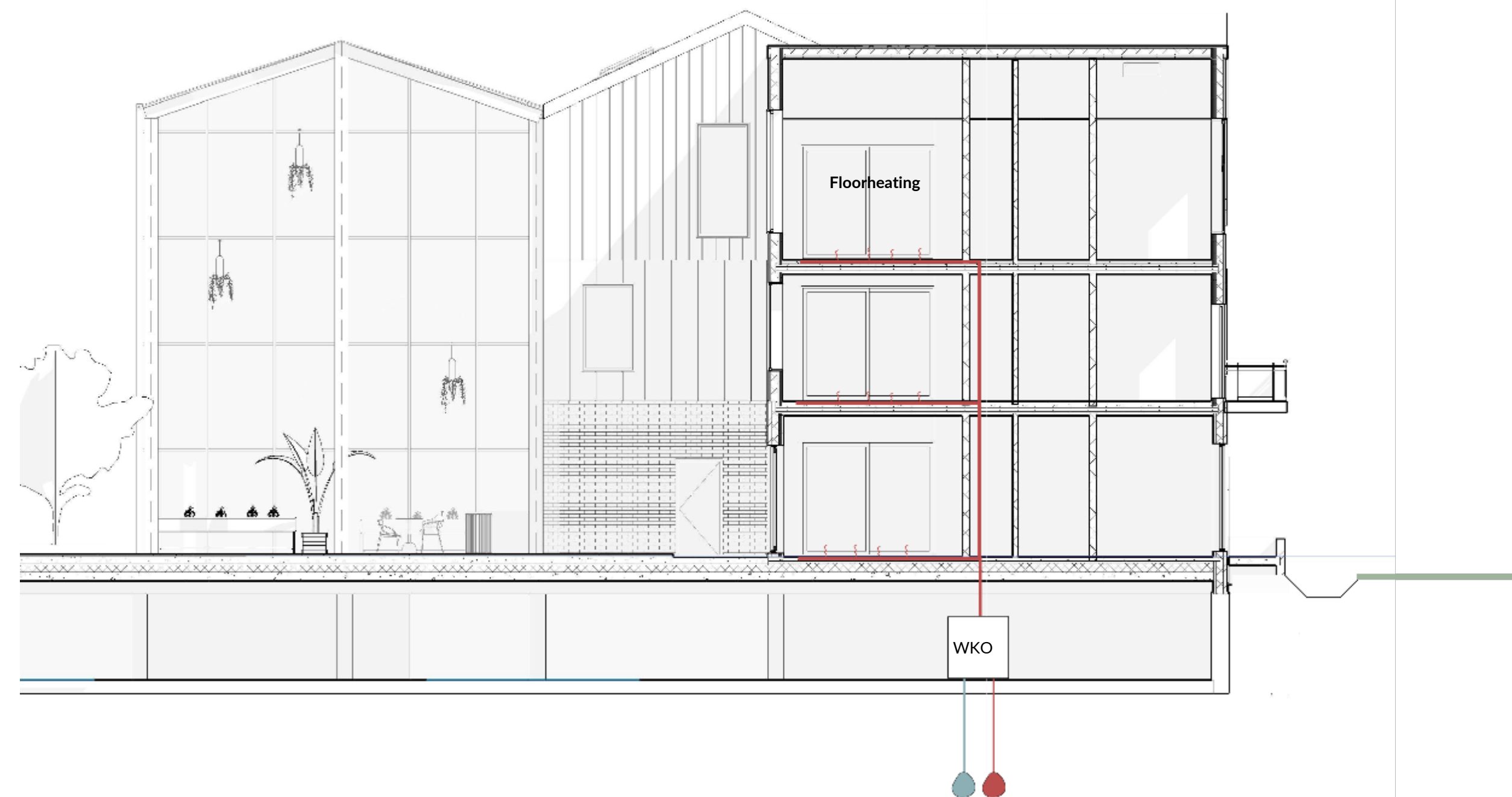
- Hybrid ventilation system
- Through the windows, there is cross ventilation.
- The air is extracted from the core through the shafts.
- Units for heat recovery

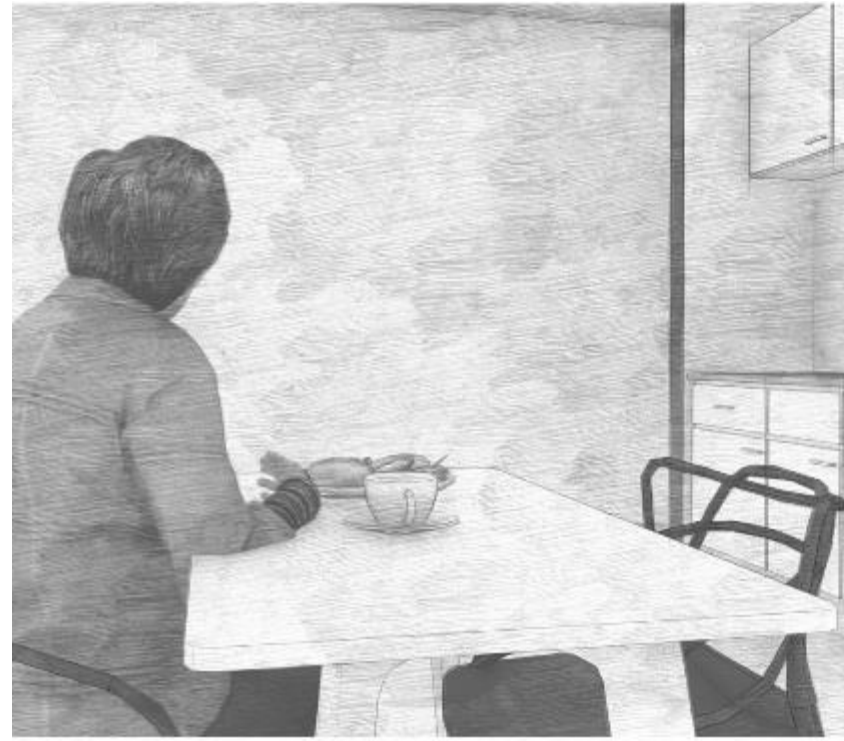
- Sun Exposure
- Solar panels and photovoltaic cells generate energy.
- Blinds on the south façade
- During the summer, trees to the south provide shading.



Heating

- WKO system
- Heating system for the floor





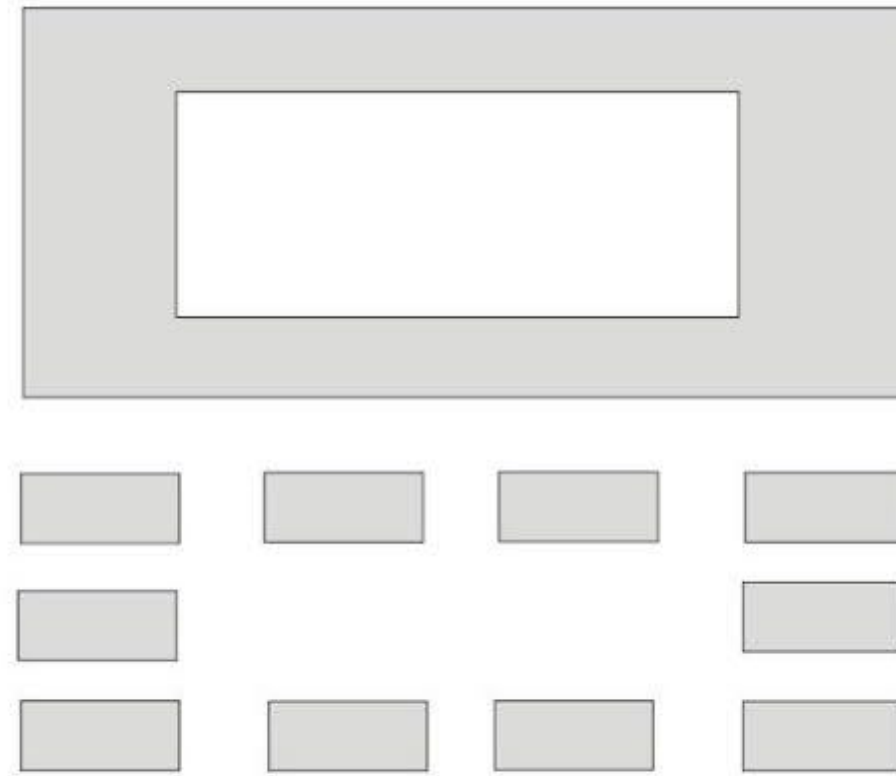




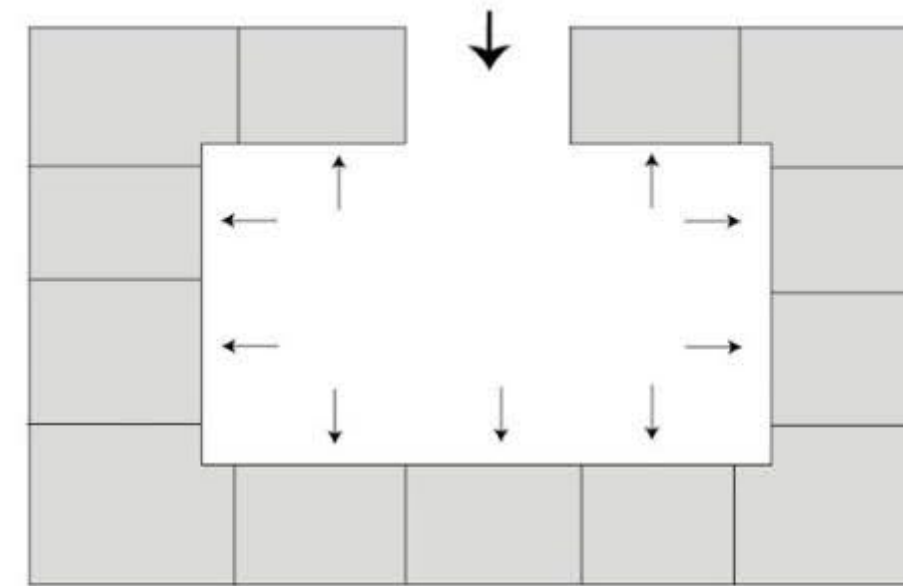




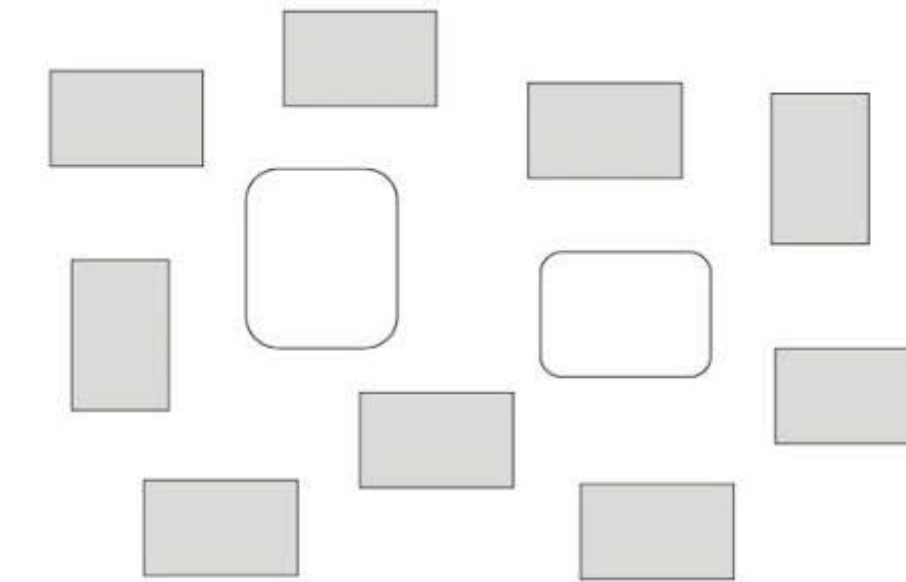




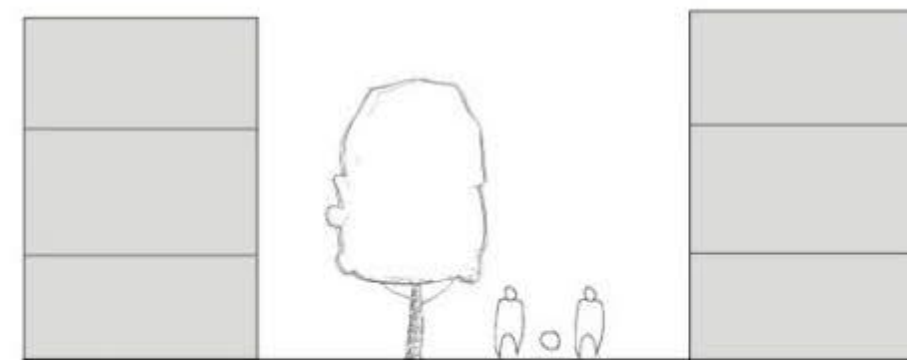
Micro-communities



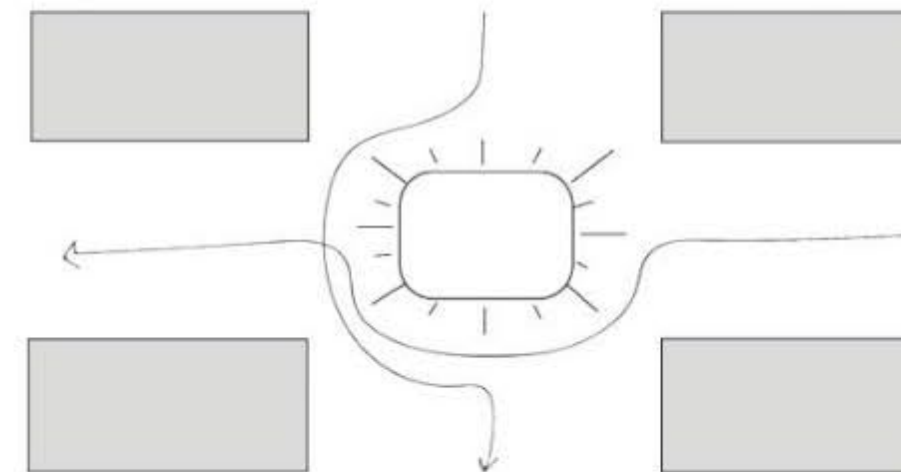
Modern 'hofje'



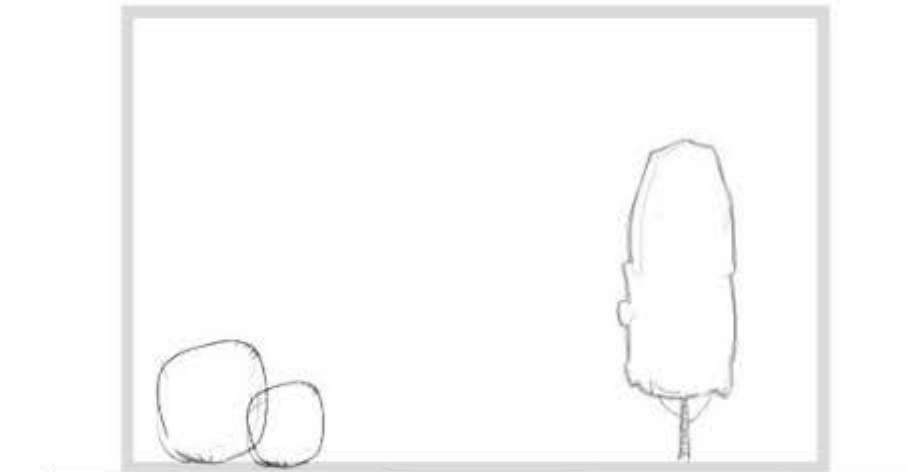
Shared and Common spaces



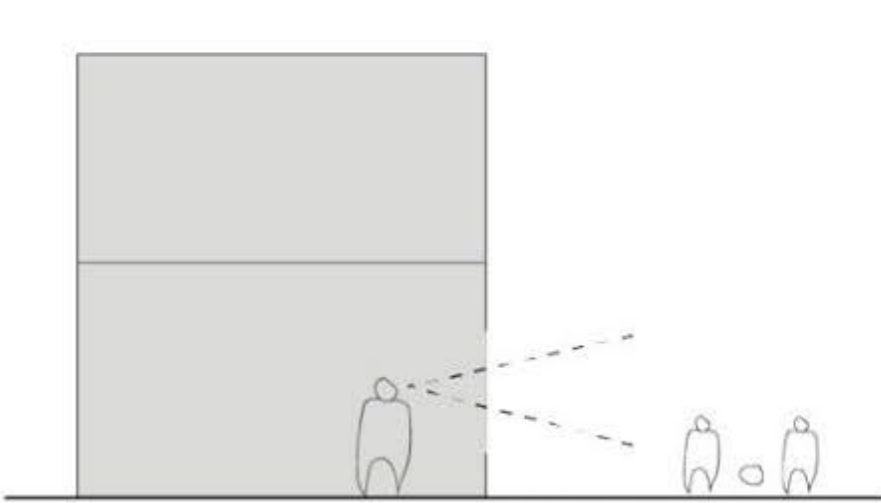
Courtyard



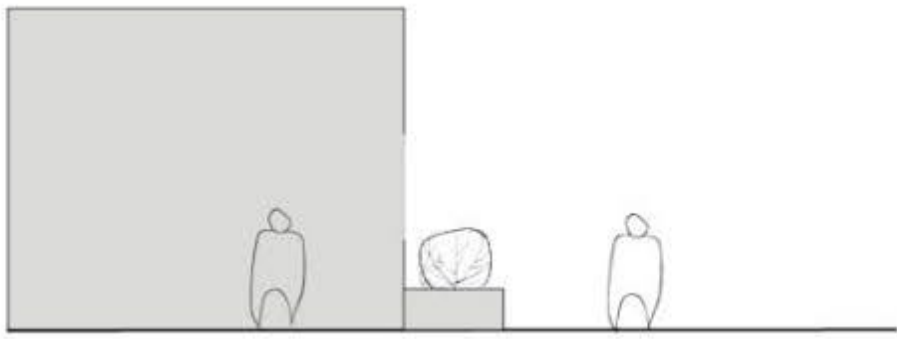
100 % corner



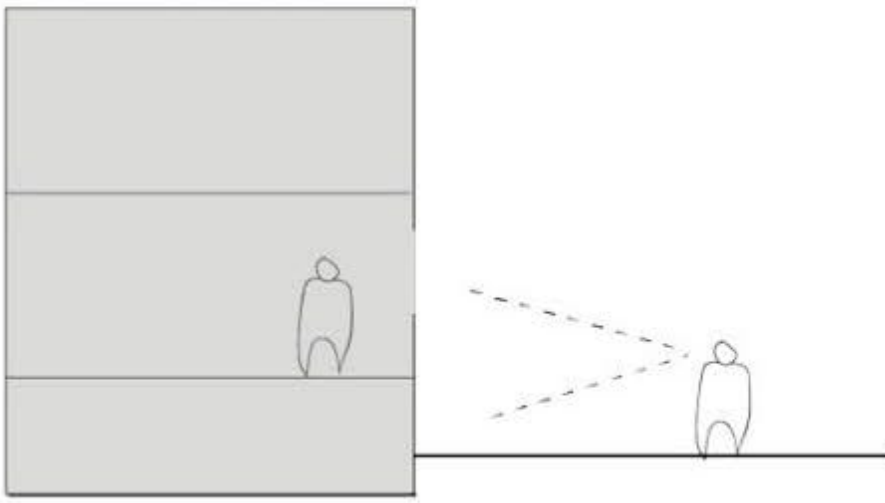
Wintergarden



Vision



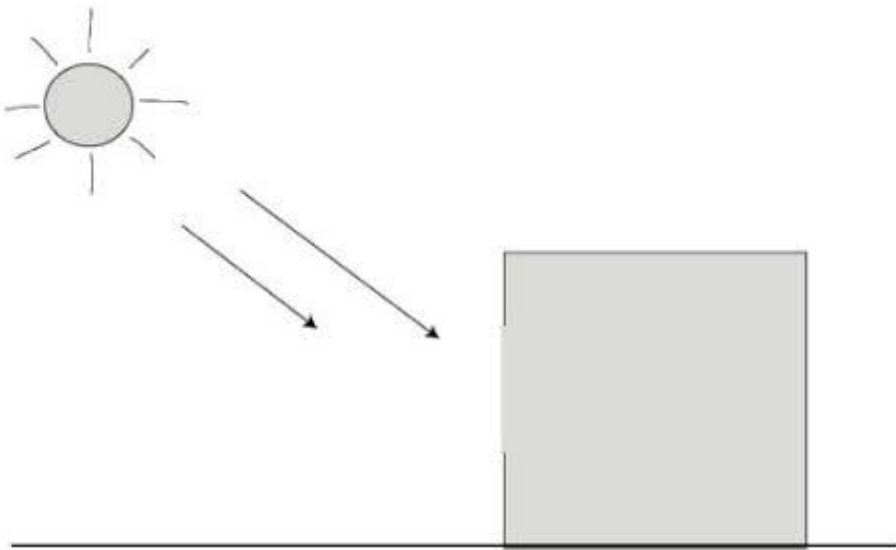
Transition area



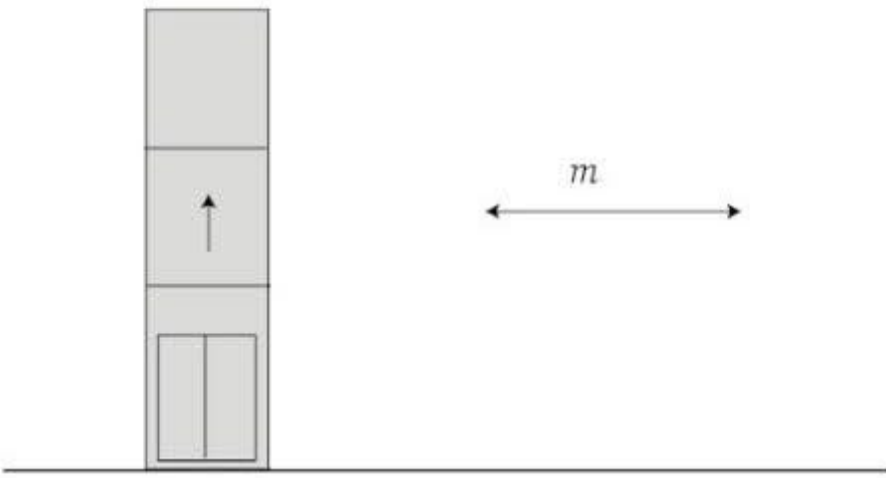
Privacy



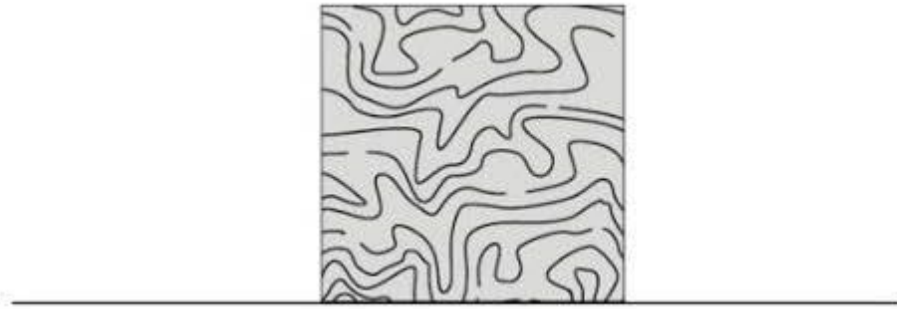
Building Edge



Light



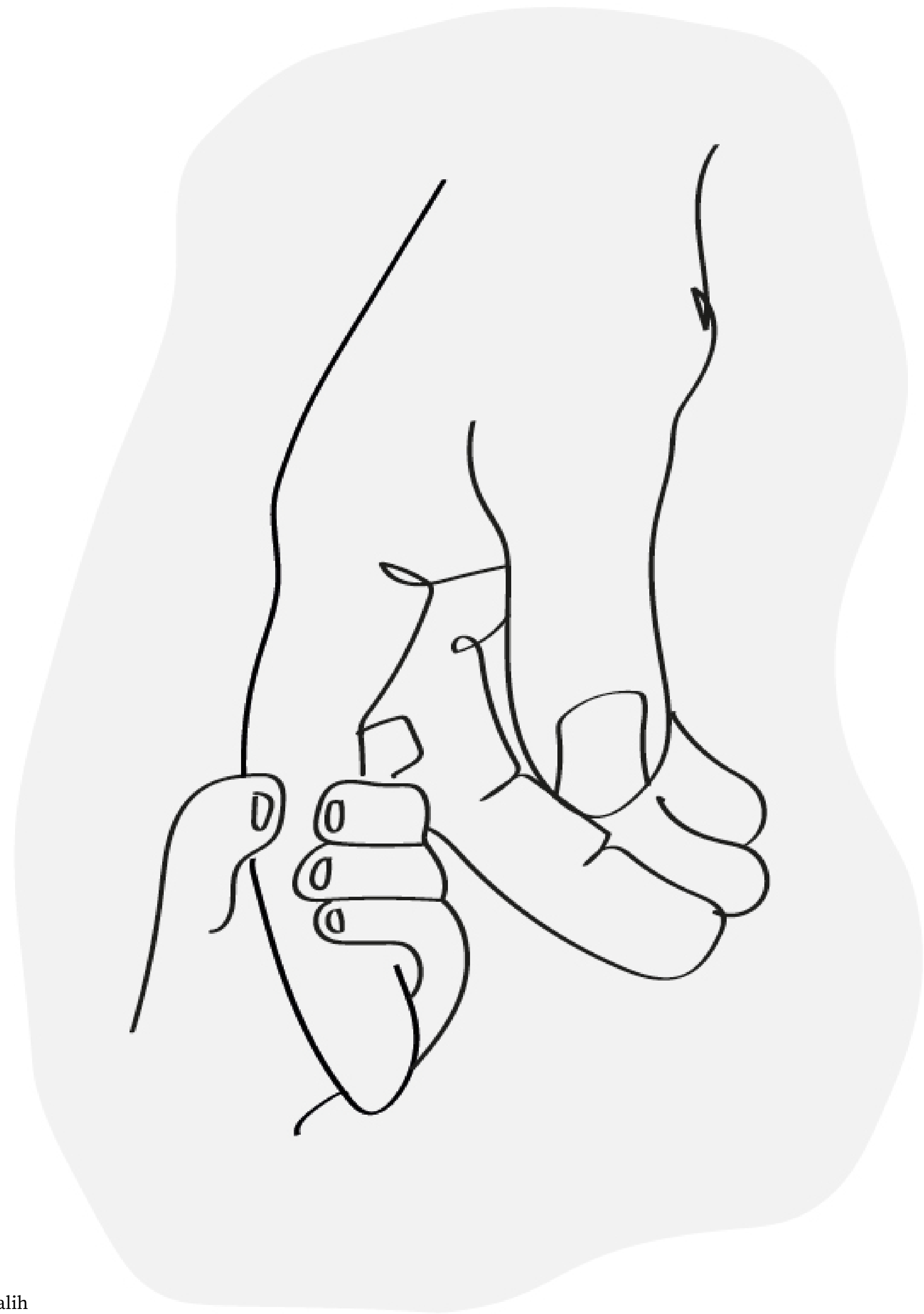
Independent living



Materialisation



Building Design



A Caring Place

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Delft University of Technology

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