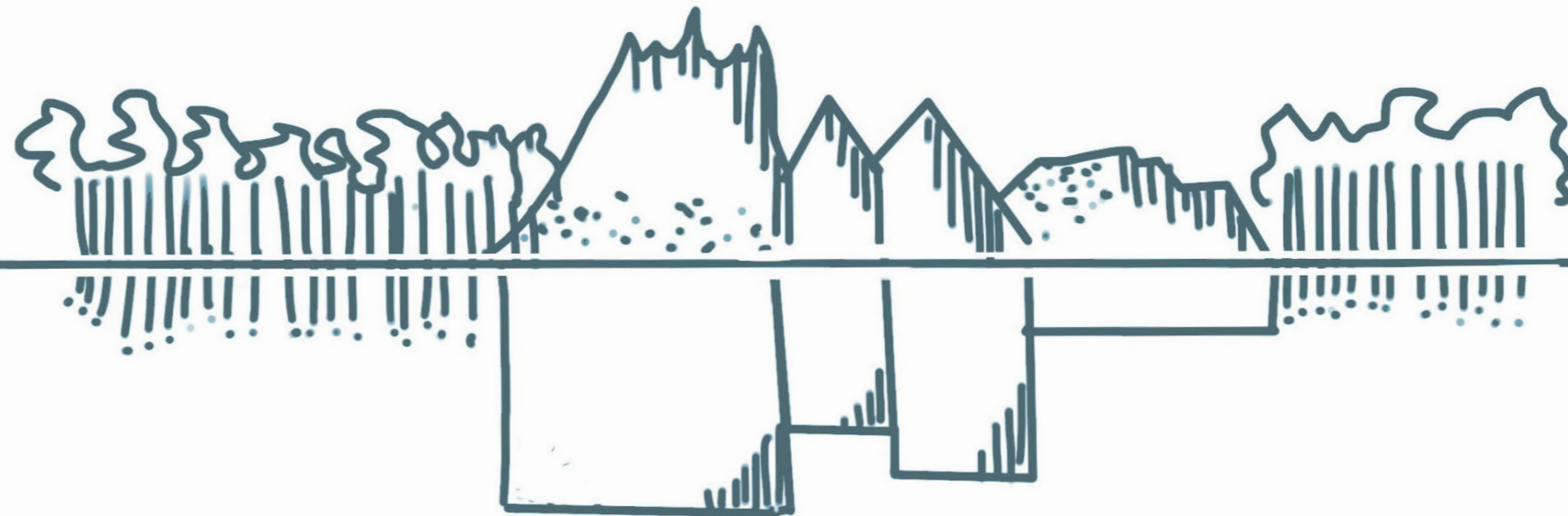


ECOLOGIES OF INCLUSION

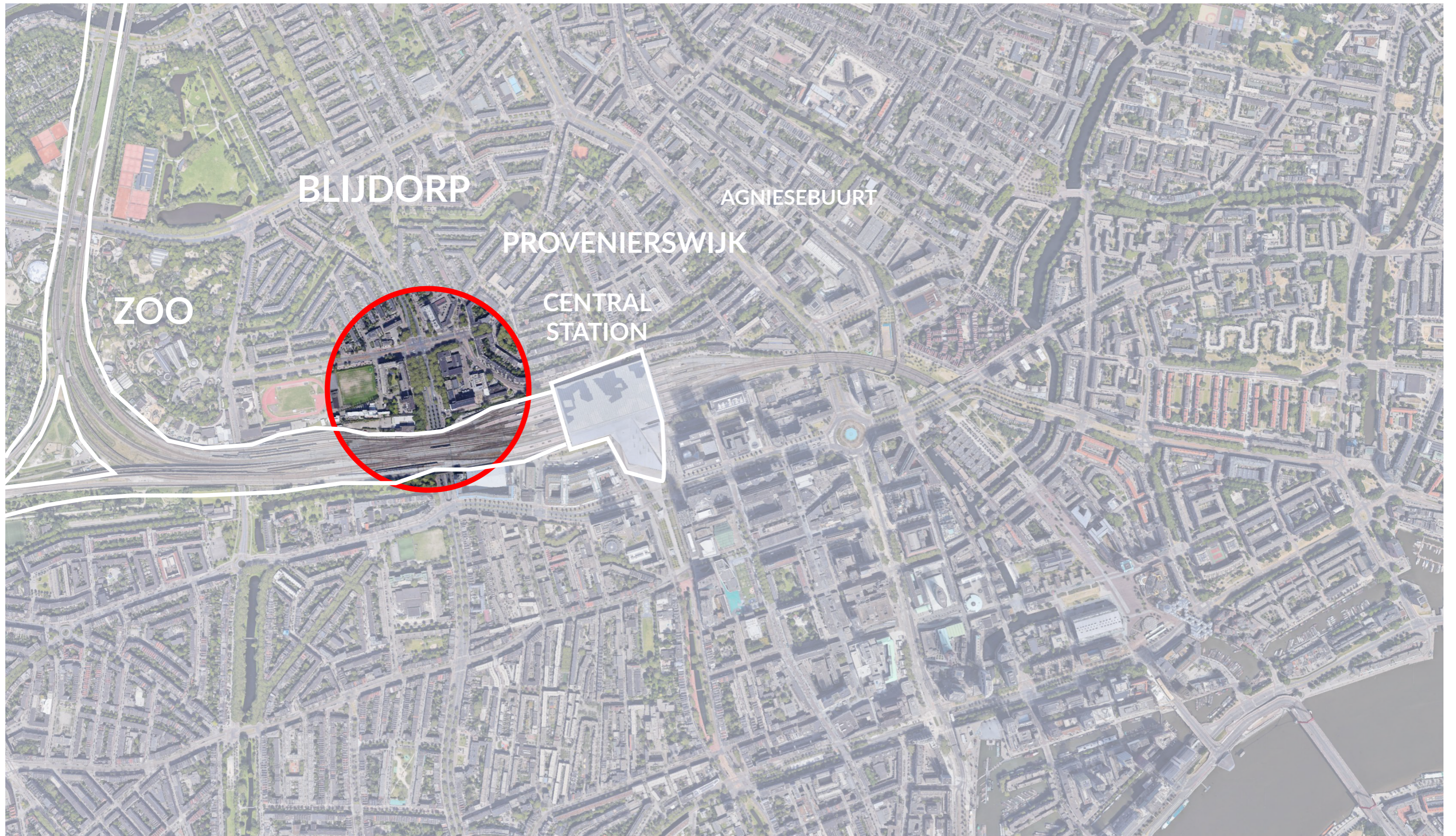
TOGETHERNESS

SOLO SPECIES SHARING SPACE
IN CENTRAL ROTTERDAM



SAVANNE VAN HARREWIJEN

P5 - THURSDAY, JUNE 23, 2022



Site location

Rotterdam north





Site location

Wahlenburghof





Masterplan

Position building





Masterplan

Position building





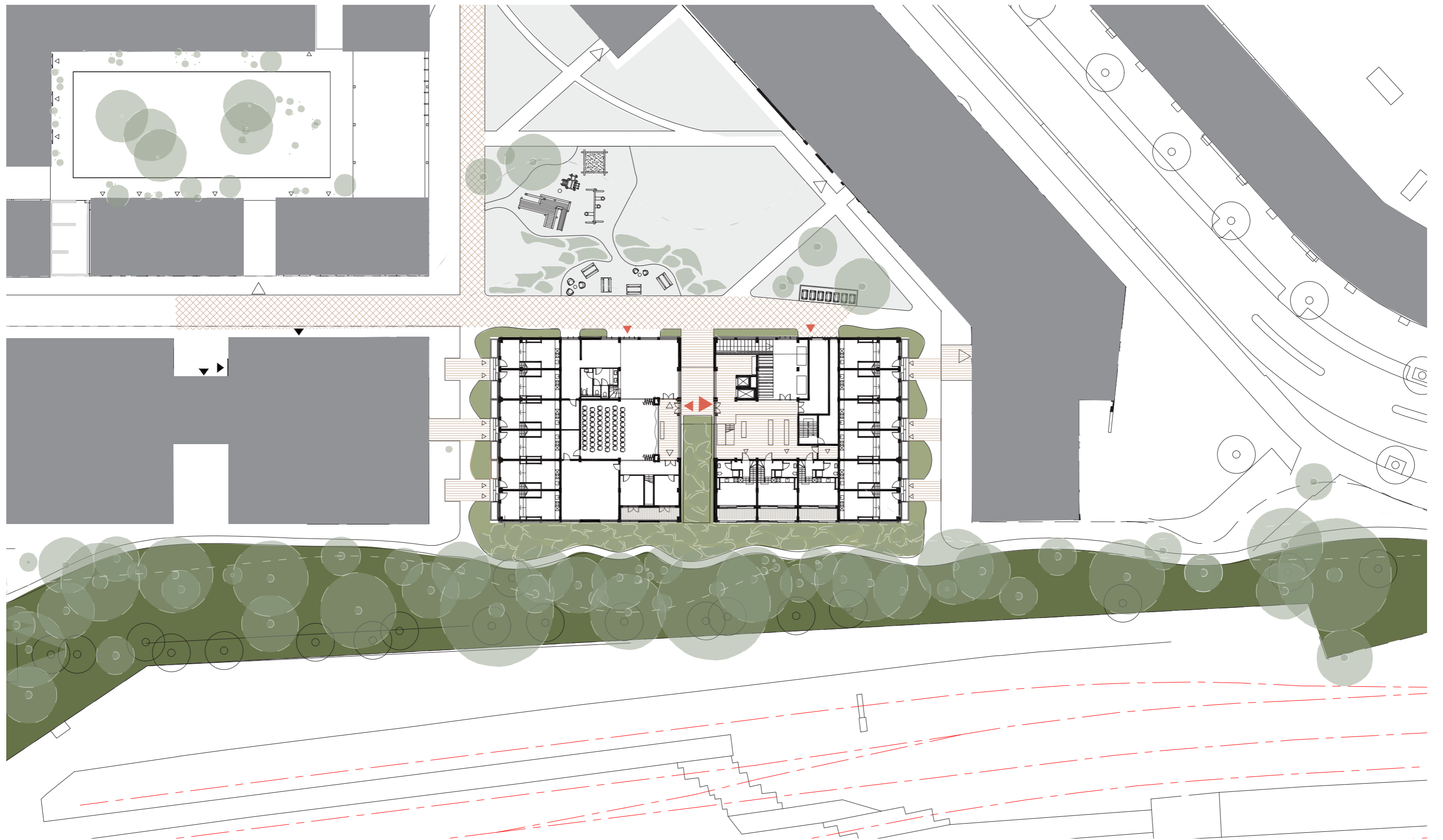
Site location
Wahlenburghof
⌵



Masterplan

Position building





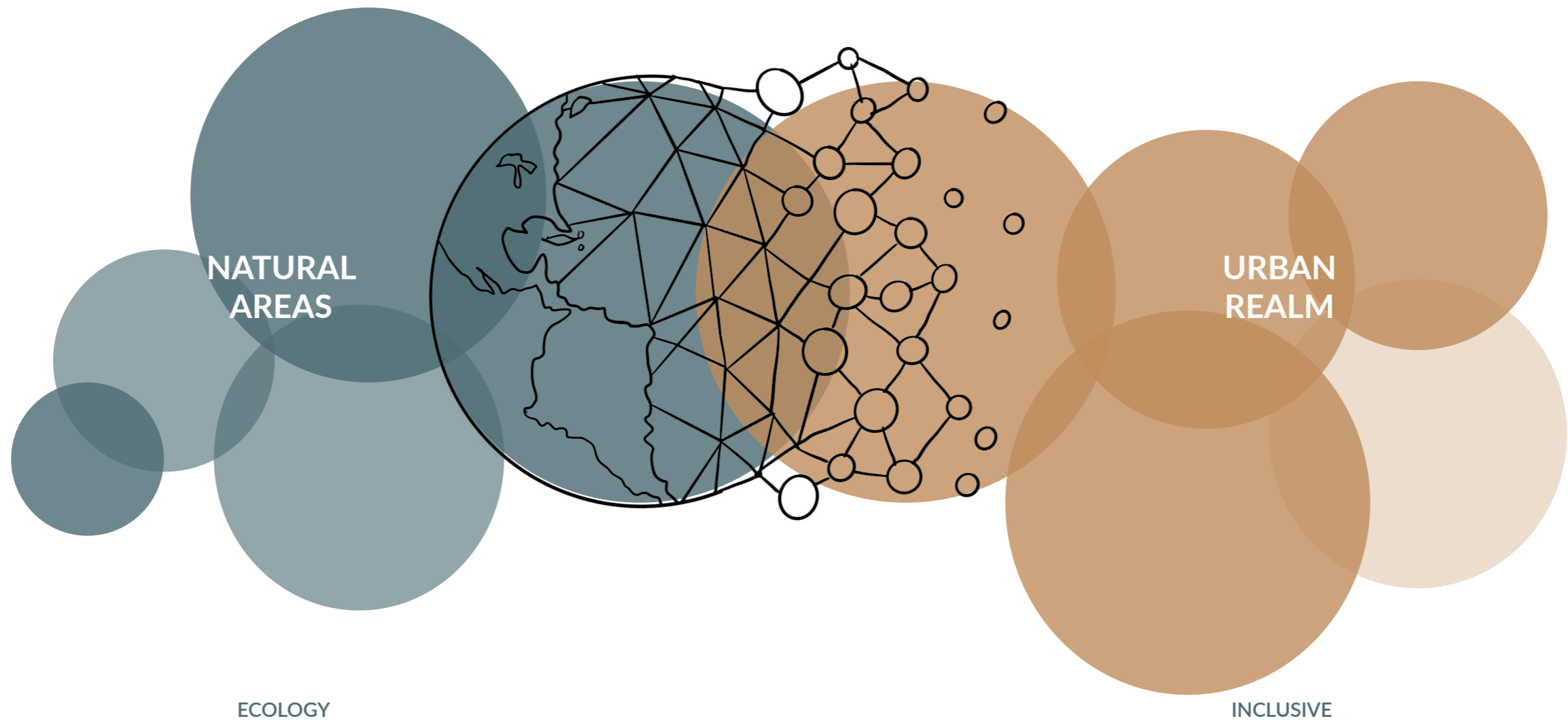
Ground floor

Concept:
Connect two worlds

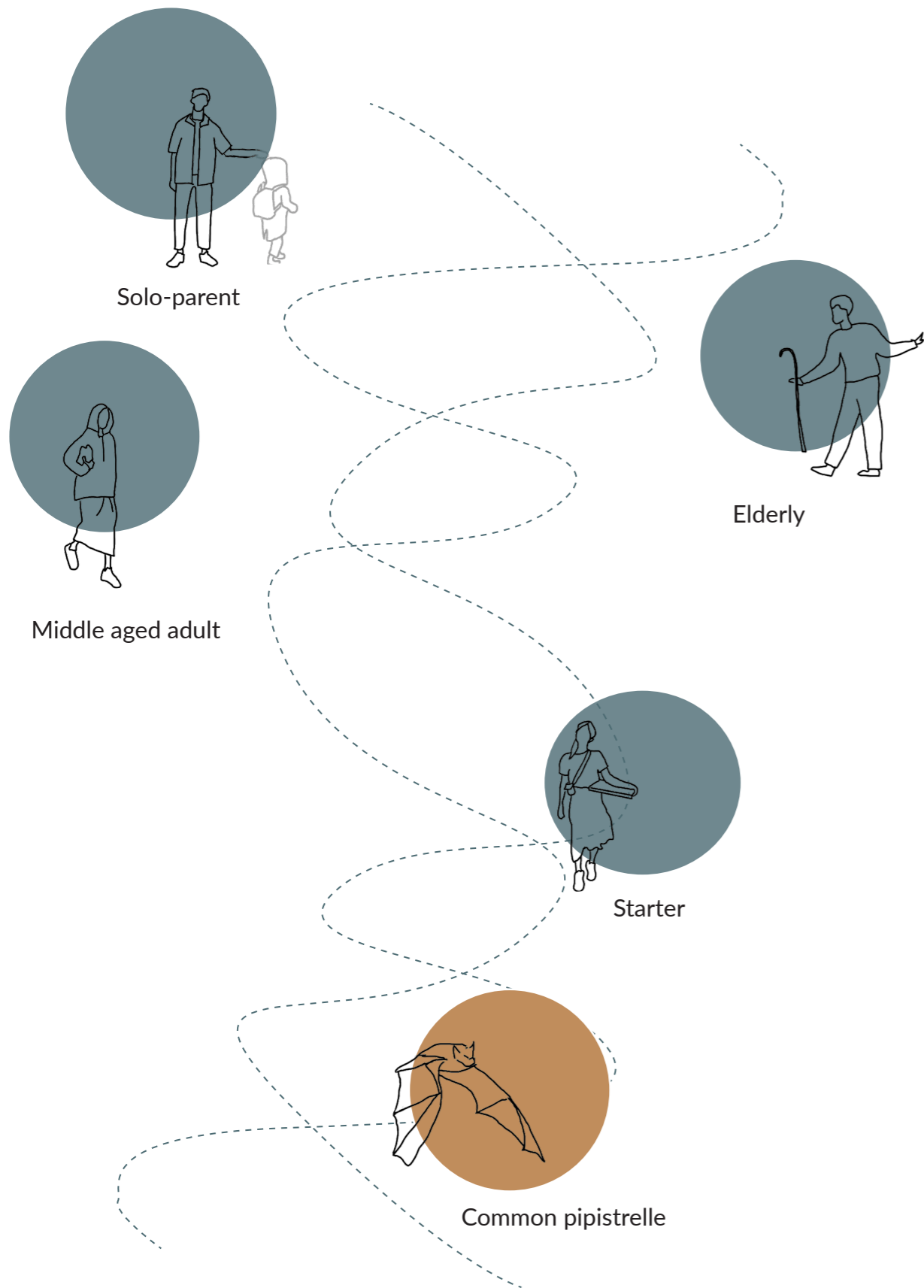


TOPIC

WHAT IF?



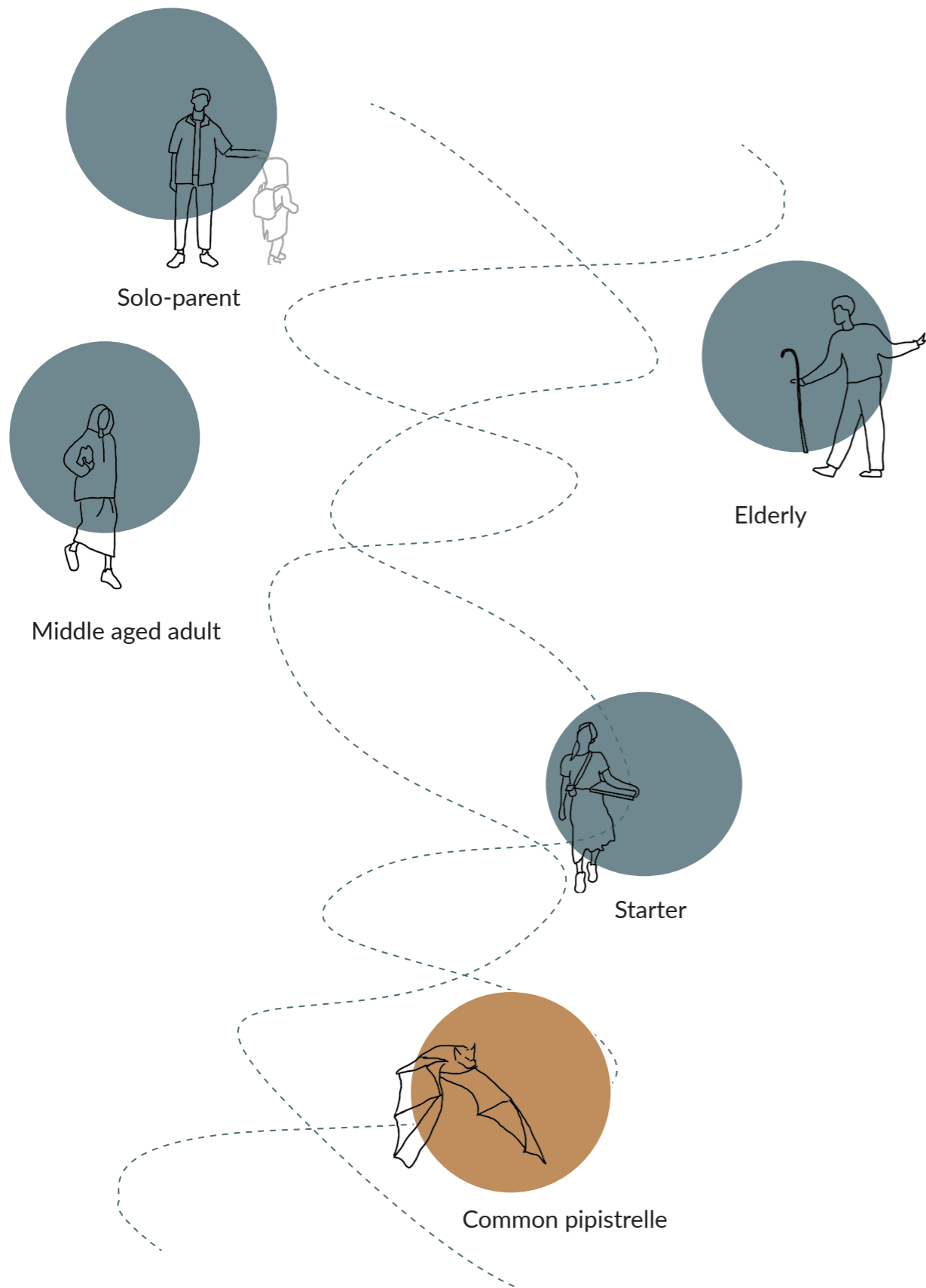
TARGET GROUPS



String figures are like stories; they propose and enact patterns for participants to inhabit, somehow, on a vulnerable and wounded earth.”

(Haraway, 2016, p. 10)

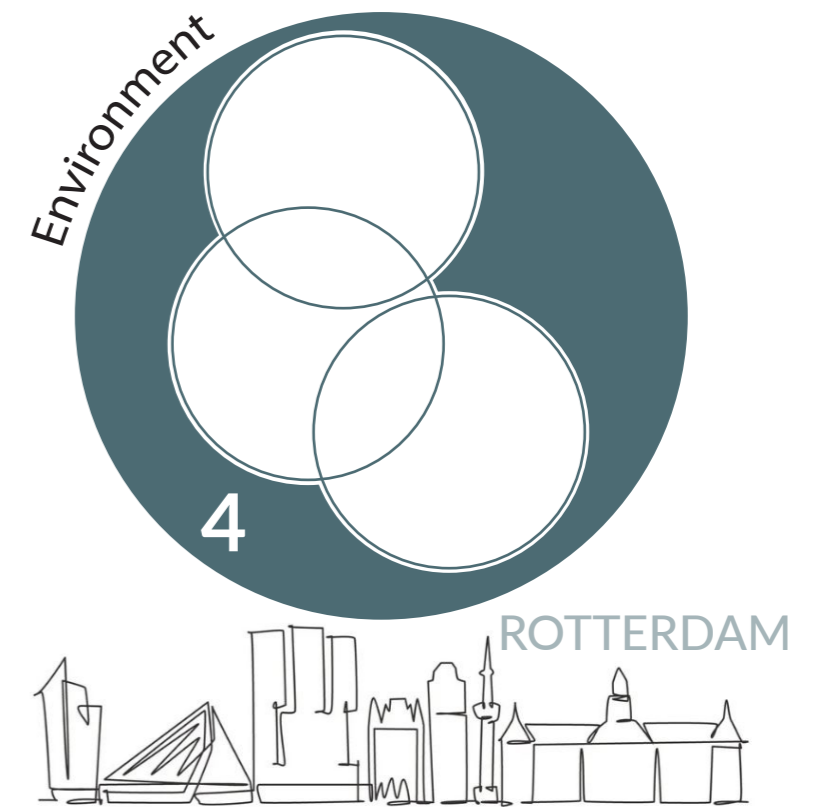
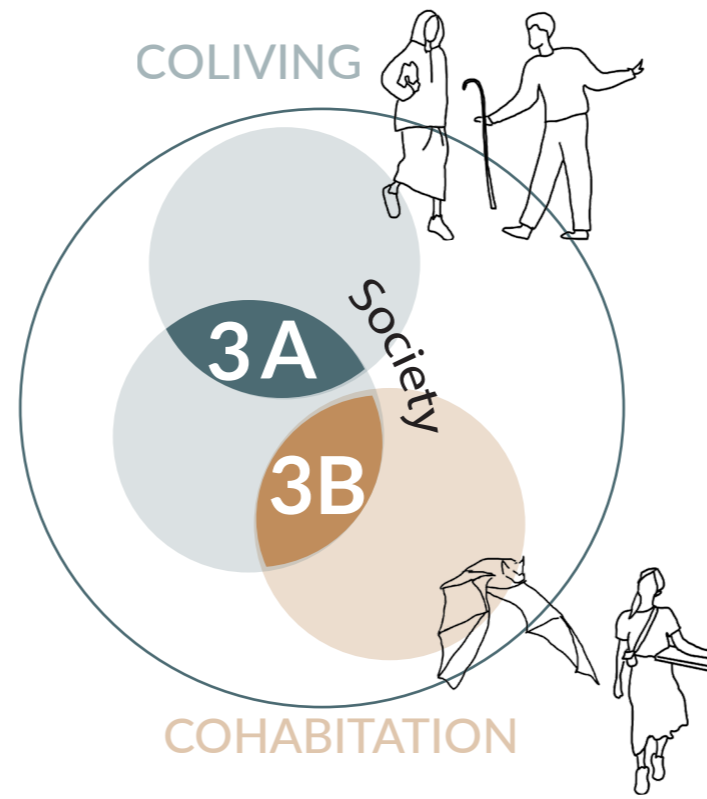
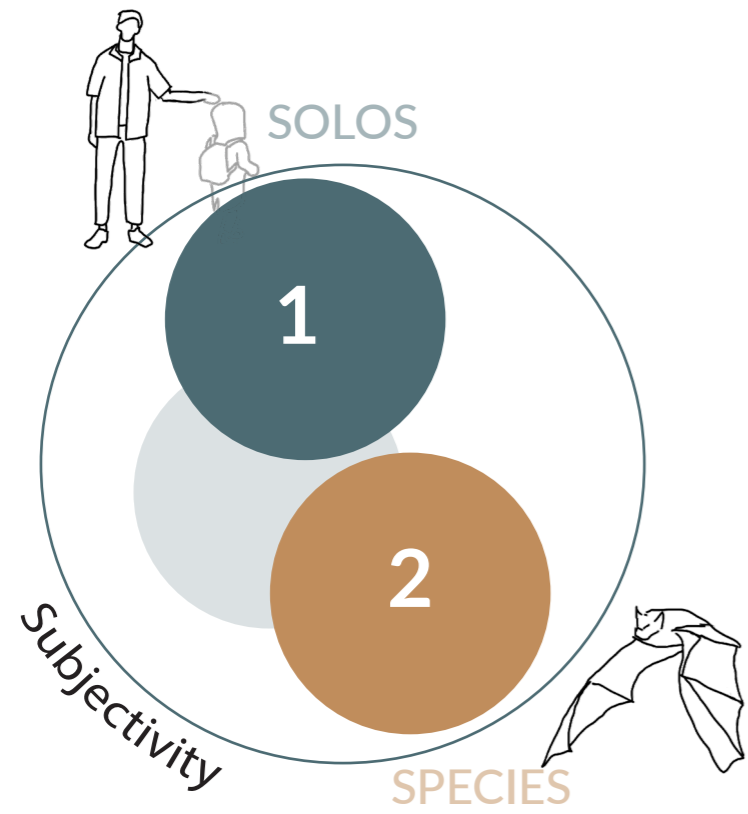
QUESTION



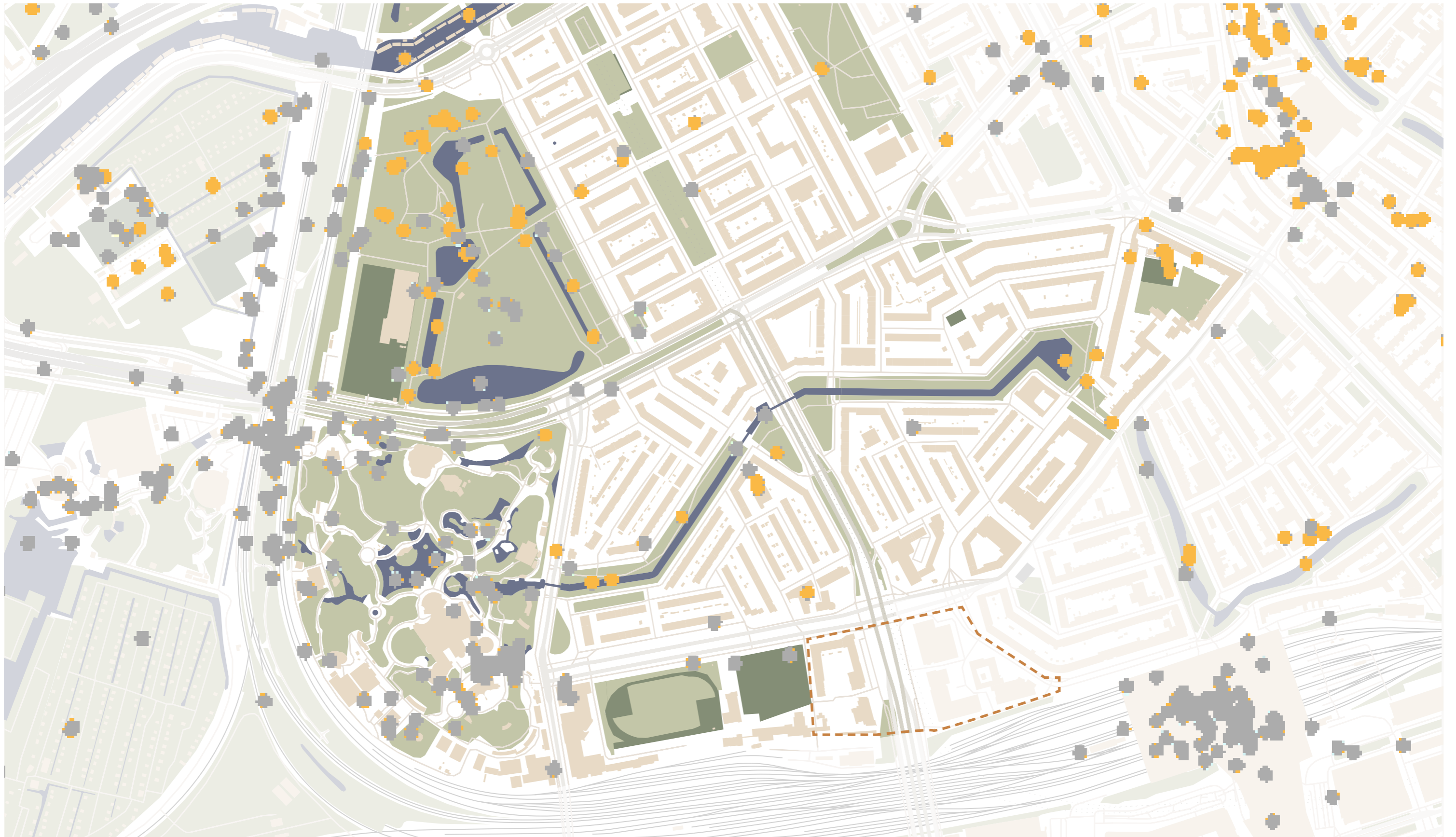
How can a community of
multi-generational solo dwellers
and non-human species
cohabit near Rotterdam station today

– considering each species' specific
dwelling needs and
capacity for sharing?

DE-CONSTRUCTION
RESEARCH FRAMEWORK

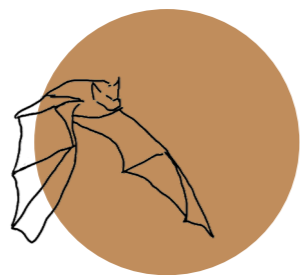






Rotterdam context

Species observations

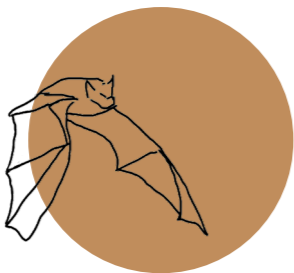




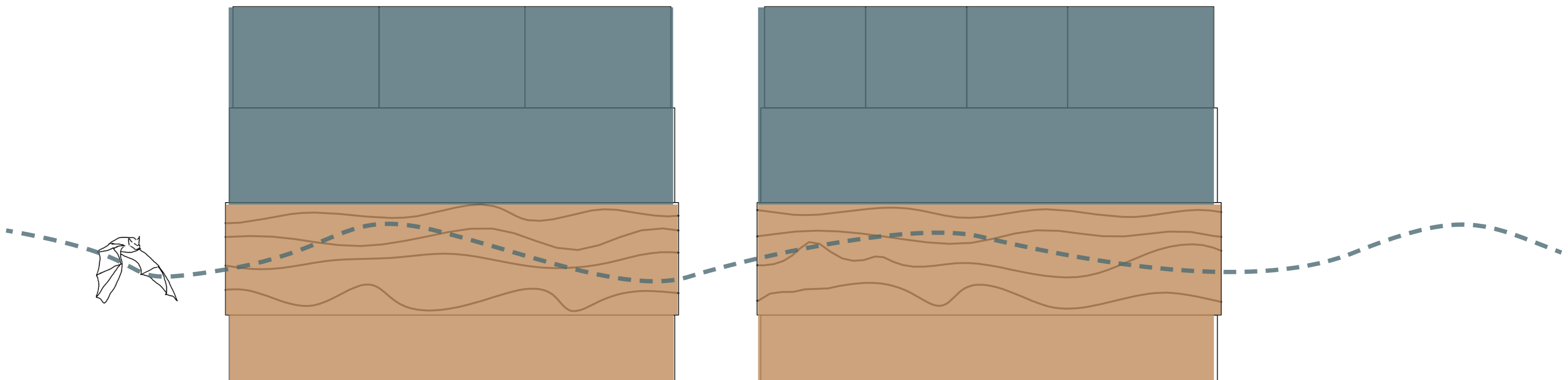
Elevation

South

0 1 2 5m

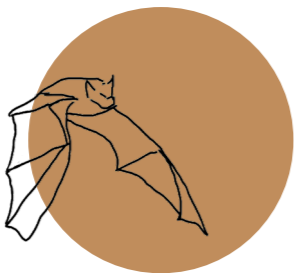


THE BAT SPECIES



Spatial needs

Common Pipistrelle

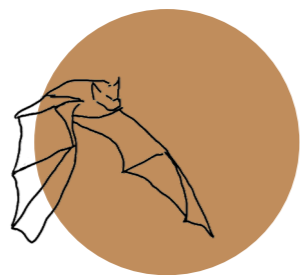




Elevation

South

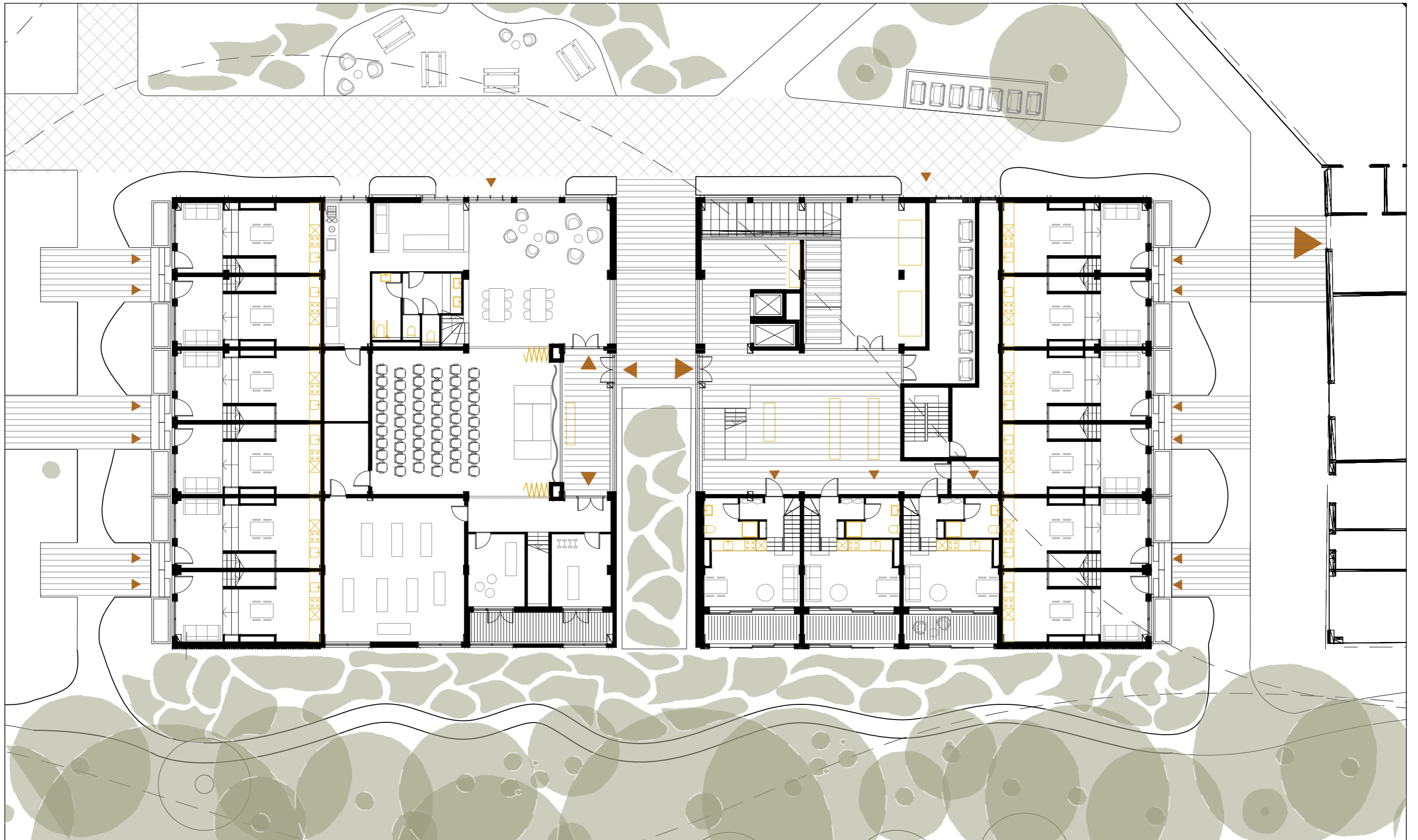
0 1 2 5m





Elevation
North - by day

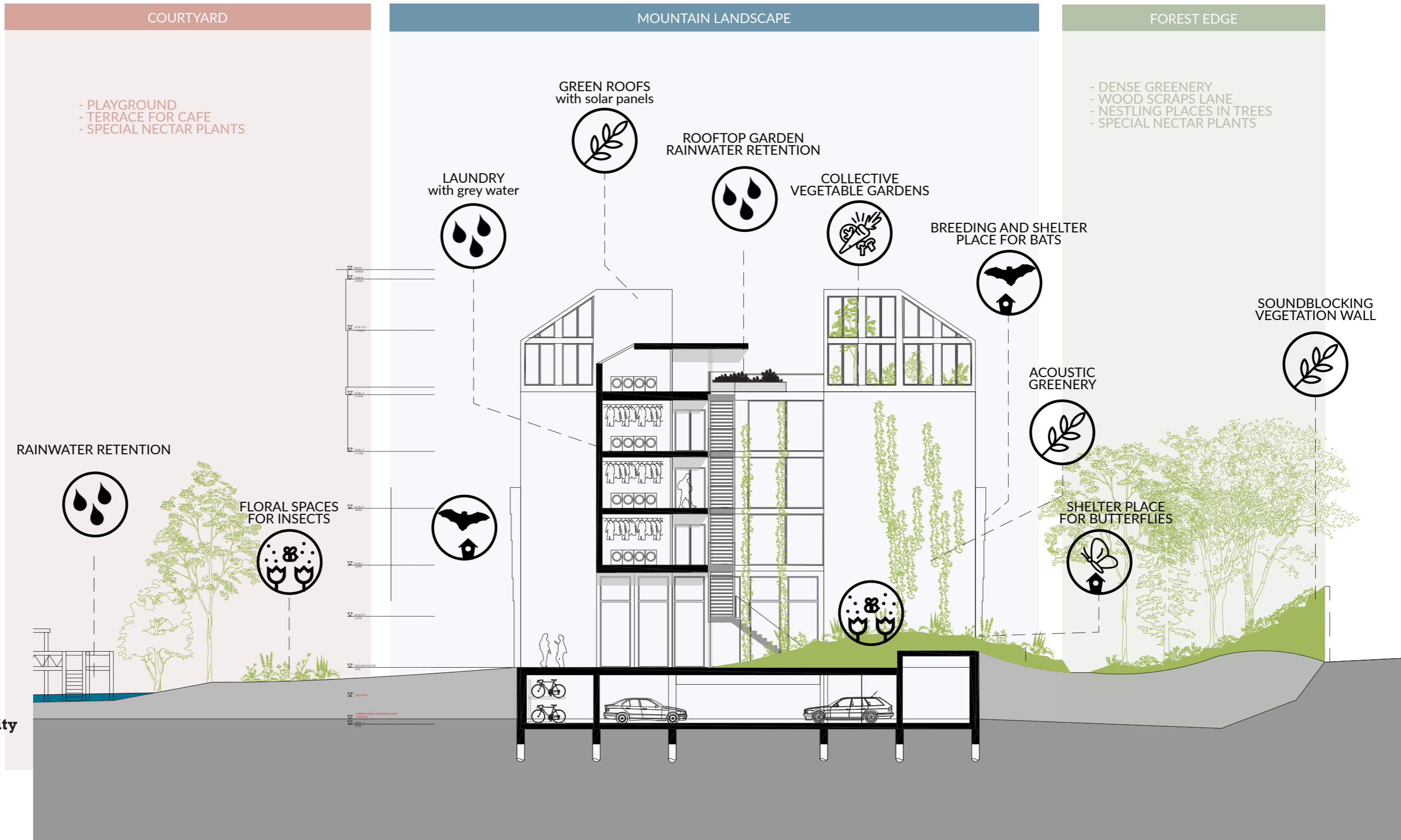
0 1 2 5m



Floor Plan (0)
in context



0 1 2 5m



COURTYARD

- PLAYGROUND
- TERRACE FOR CAFE
- SPECIAL NECTAR PLANTS

MOUNTAIN LANDSCAPE

GREEN ROOFS with solar panels

ROOFTOP GARDEN RAINWATER RETENTION

LAUNDRY with grey water

COLLECTIVE VEGETABLE GARDENS

BREEDING AND SHELTER PLACE FOR BATS

FOREST EDGE

- DENSE GREENERY
- WOOD SCRAPS LANE
- NESTLING PLACES IN TREES
- SPECIAL NECTAR PLANTS

SOUNDBLOCKING VEGETATION WALL

RAINWATER RETENTION

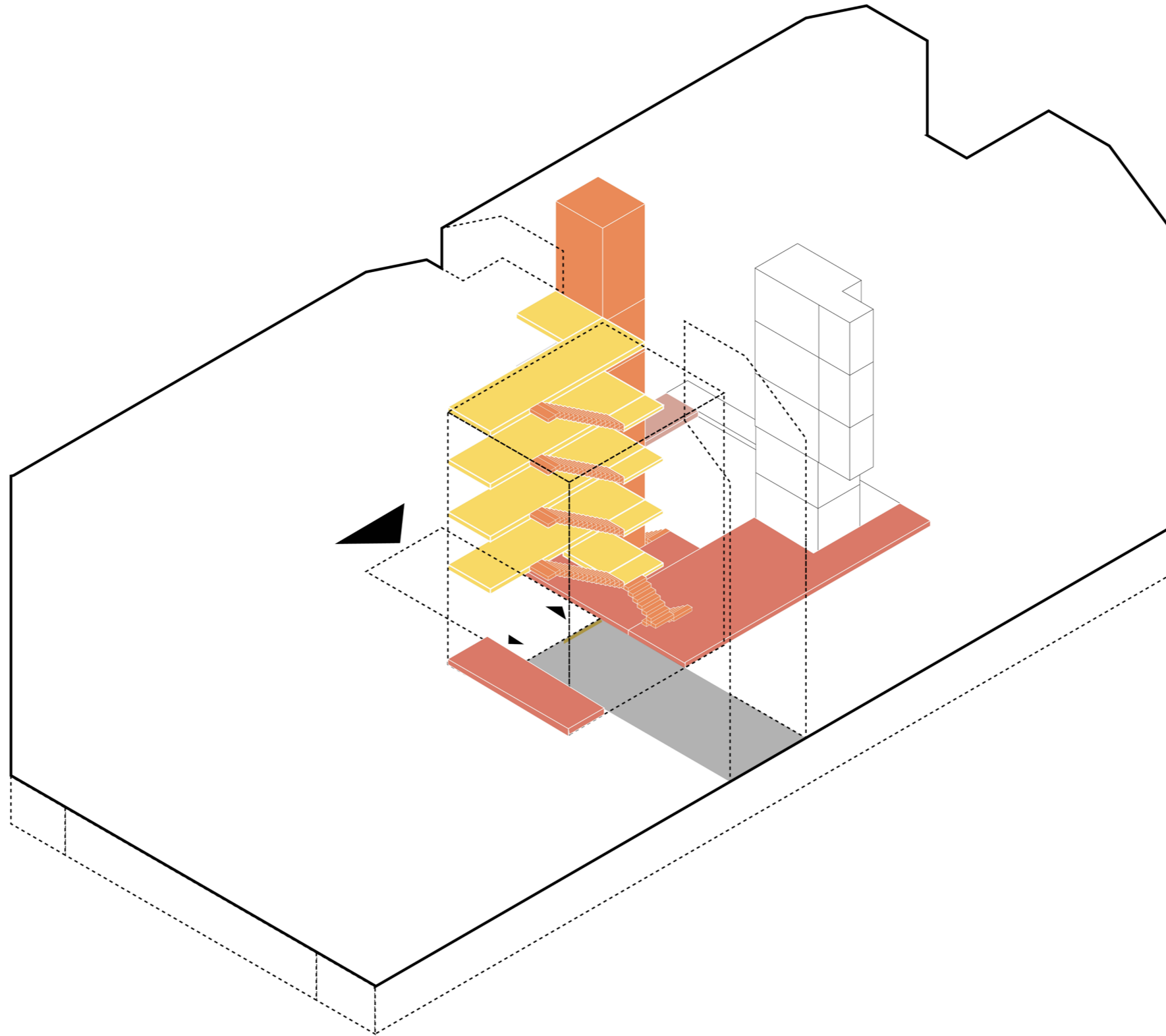
FLORAL SPACES FOR INSECTS

ACOUSTIC GREENERY

SHELTER PLACE FOR BUTTERFLIES

Sustainability principles

Section

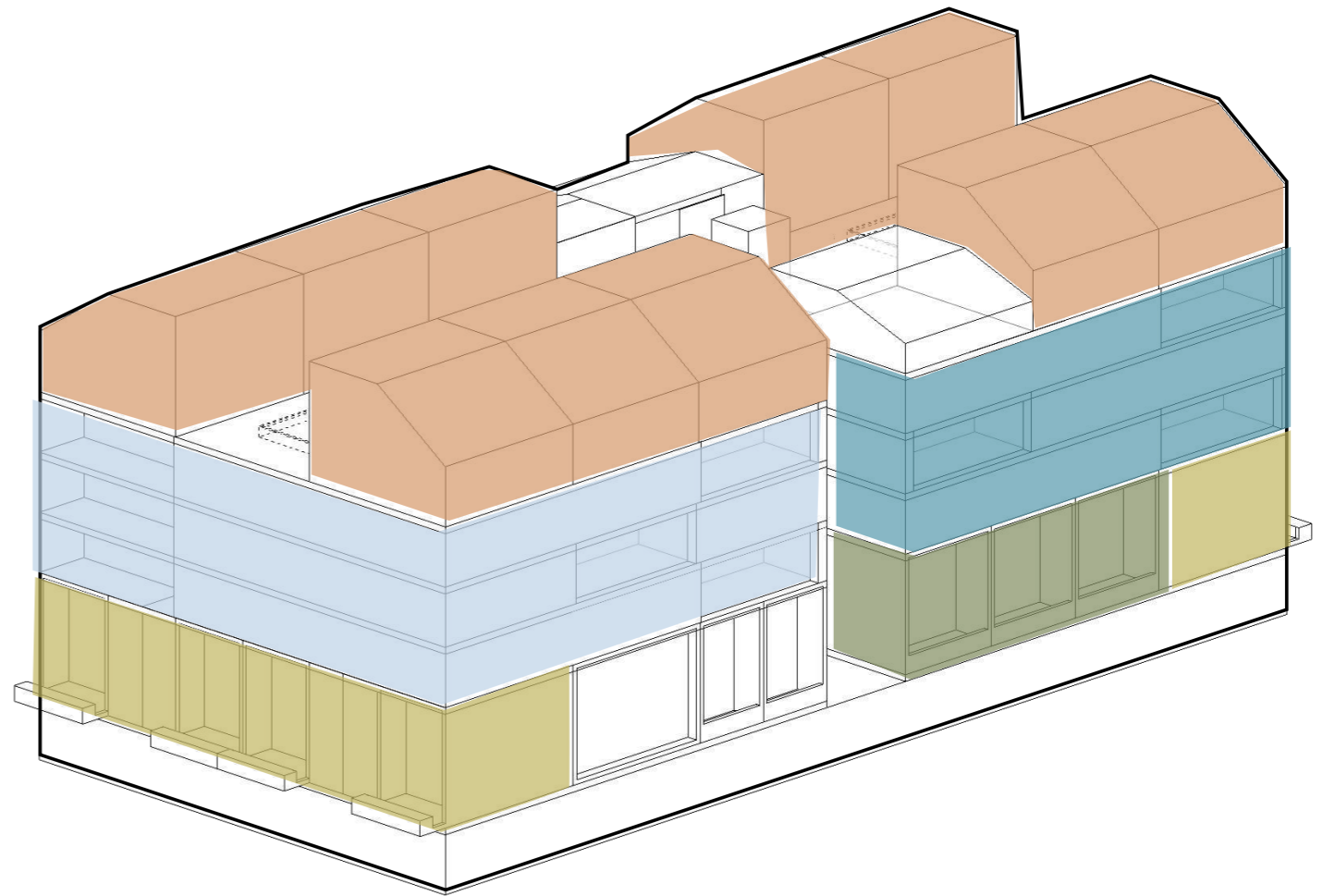
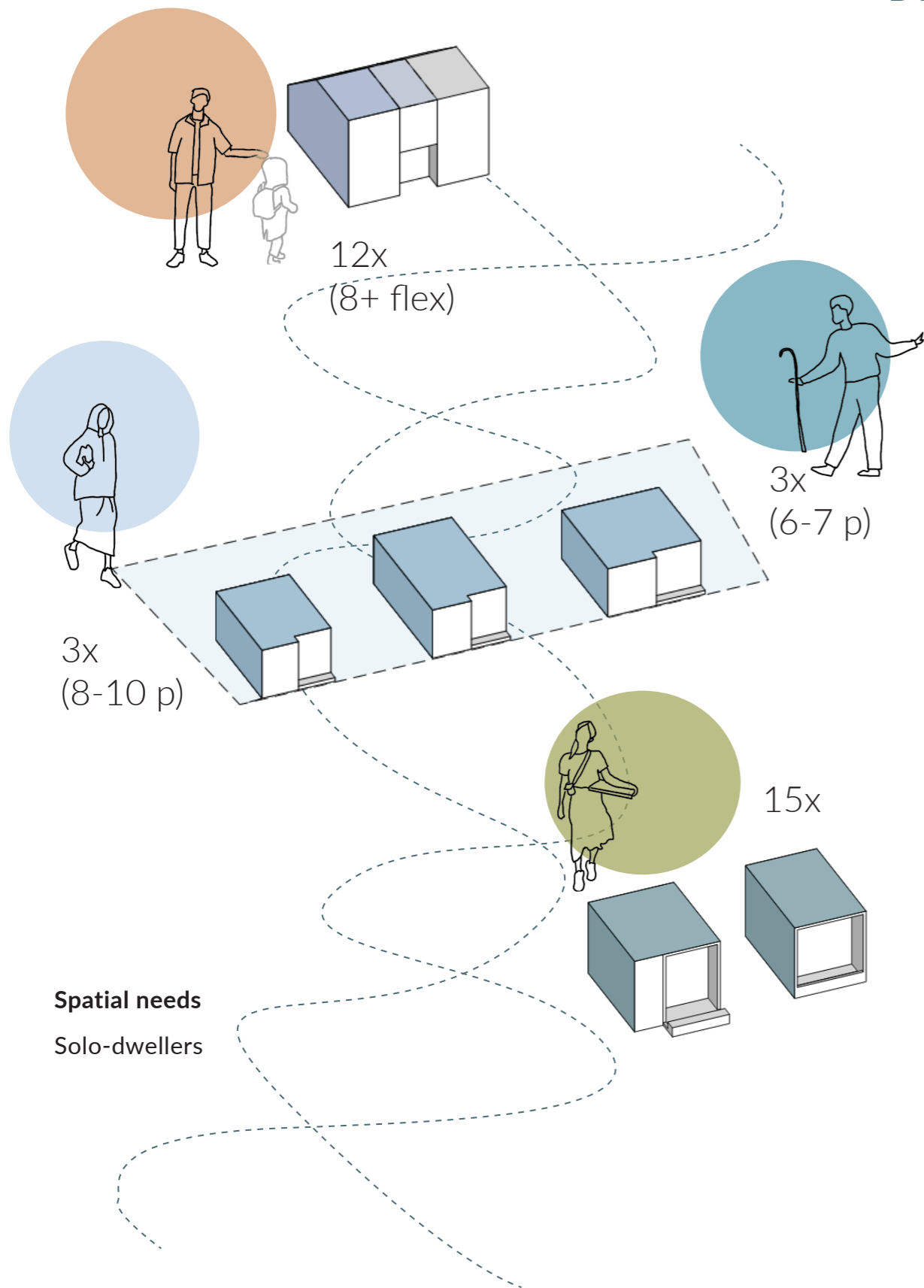


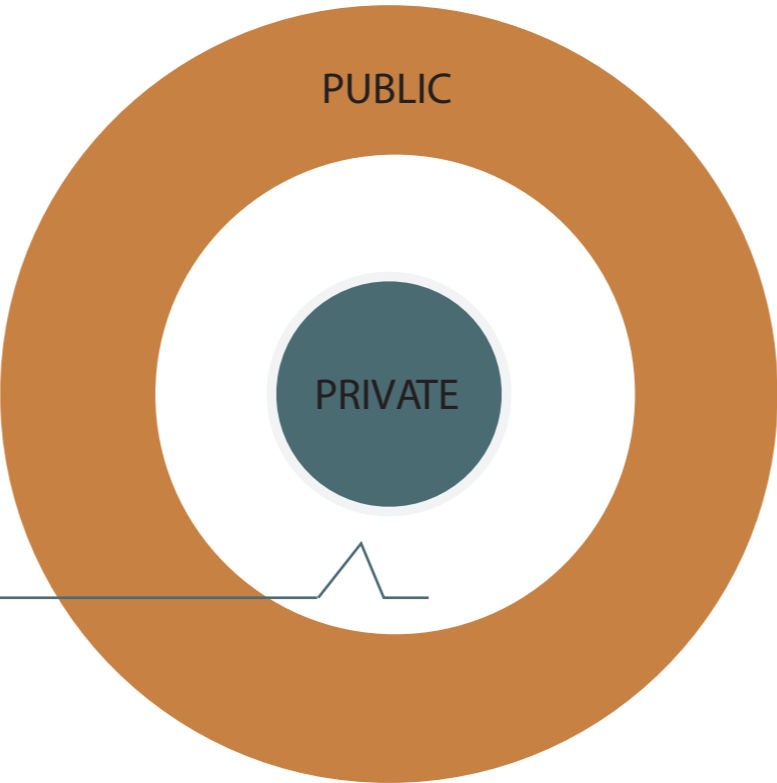
Circulation
Central core



THE SOLO DWELLERS

DWELLING TYPES IN BUILDING





SHARED?





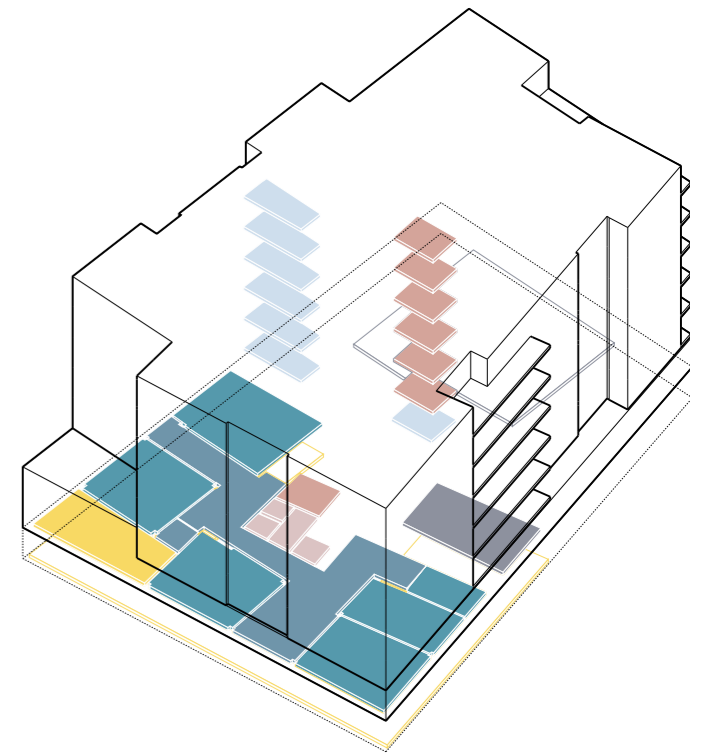
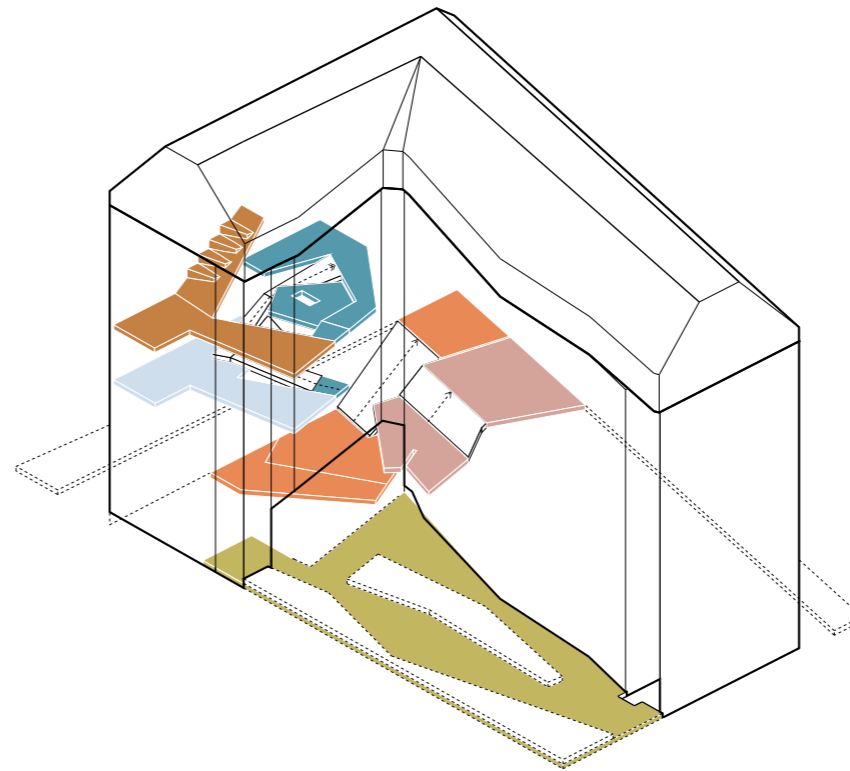
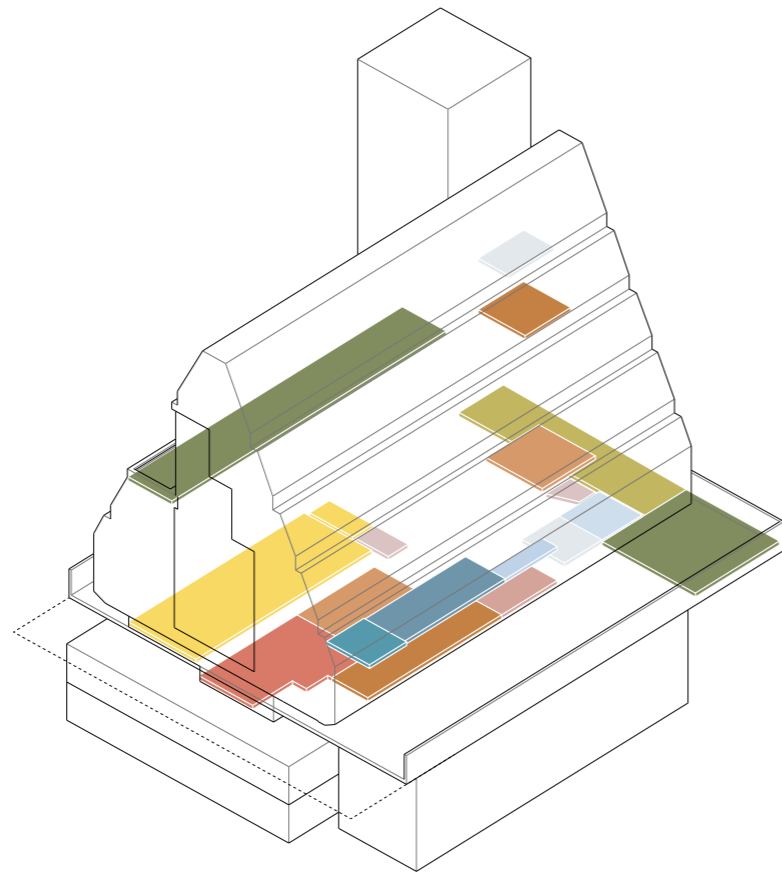
TREEHOUSE



MISS SARGFABRIK



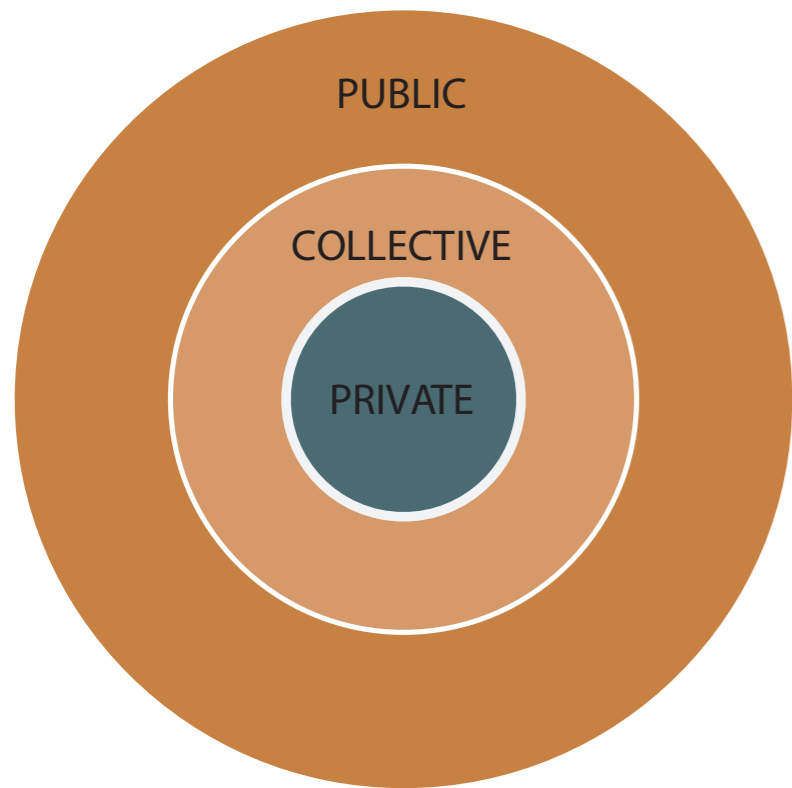
HAUS A



Program
Case studie
Functions

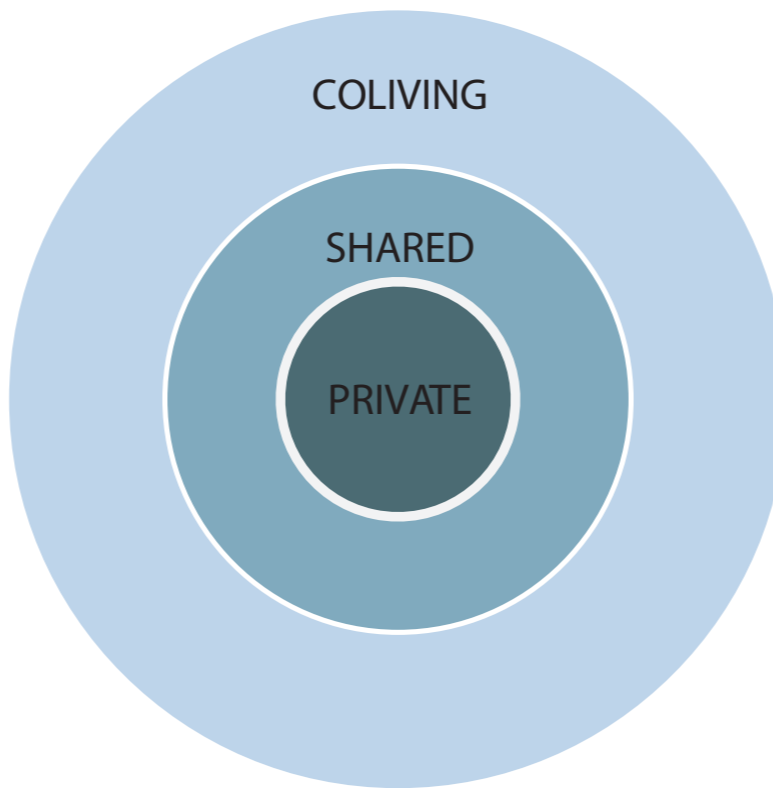
COHABITATION
*COOPERATIVE MODELS
TO CREATE A SHARED COMMUNITY*

COOPERATIVE

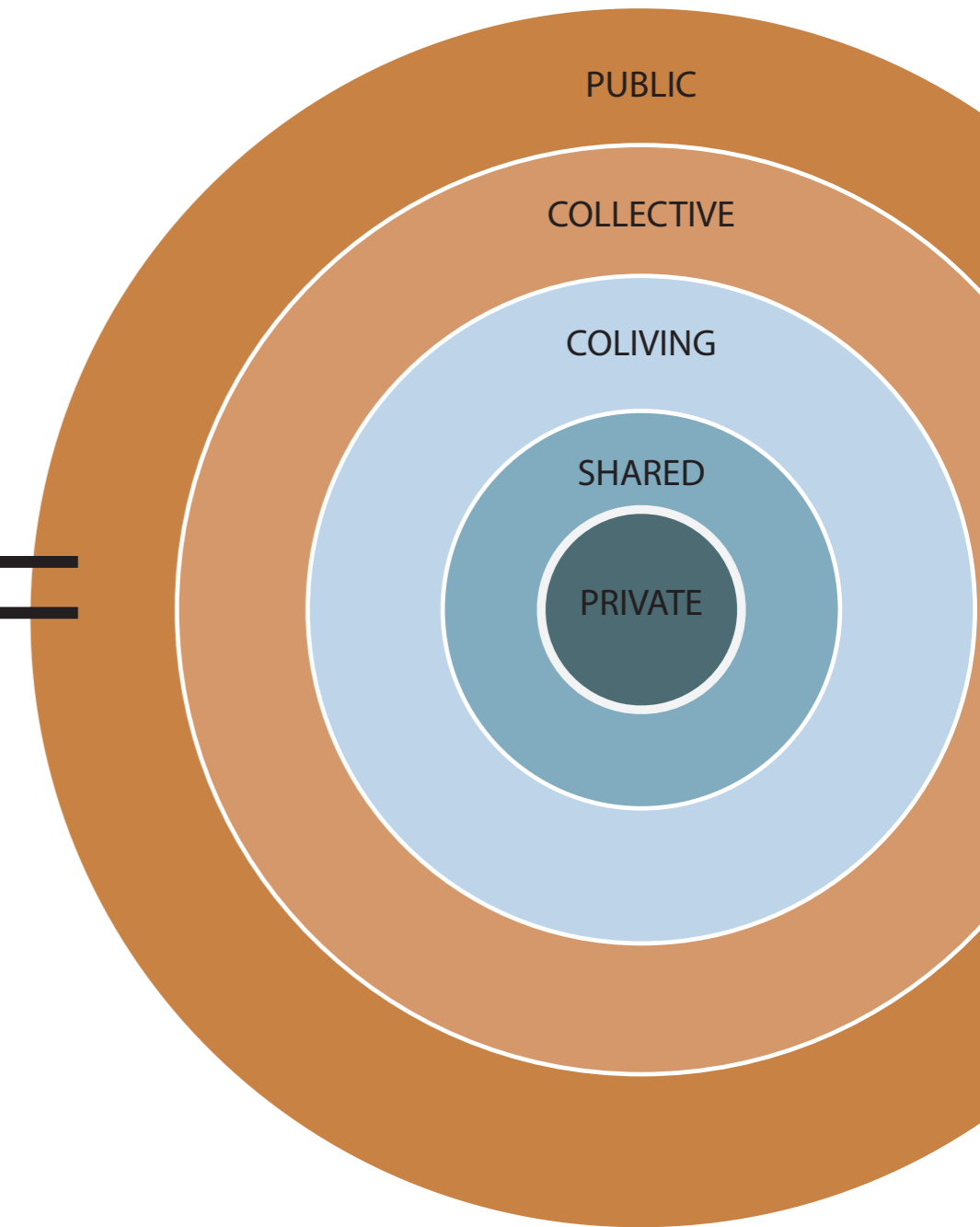


+

COLLECTIVE LIVING

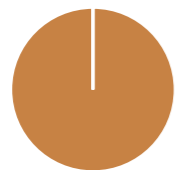
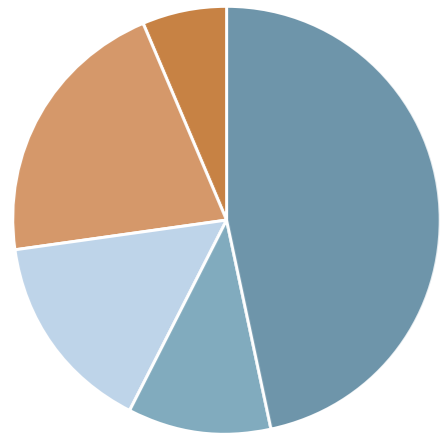


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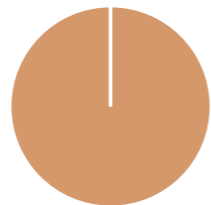
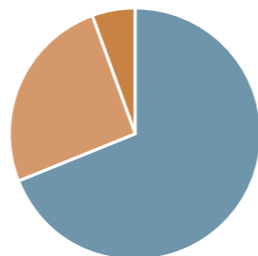
TOGETHERNESS



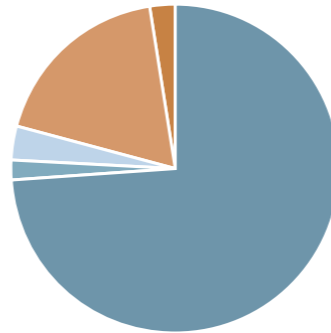
Program
Percentages functions



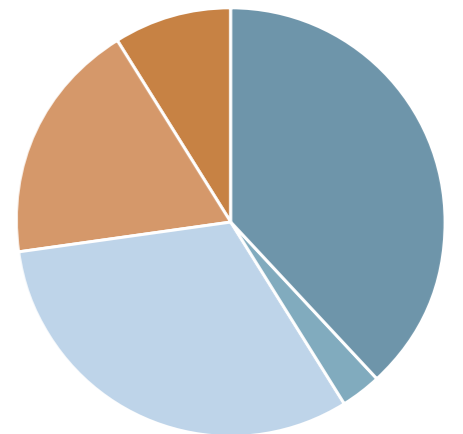
TREEHOUSE

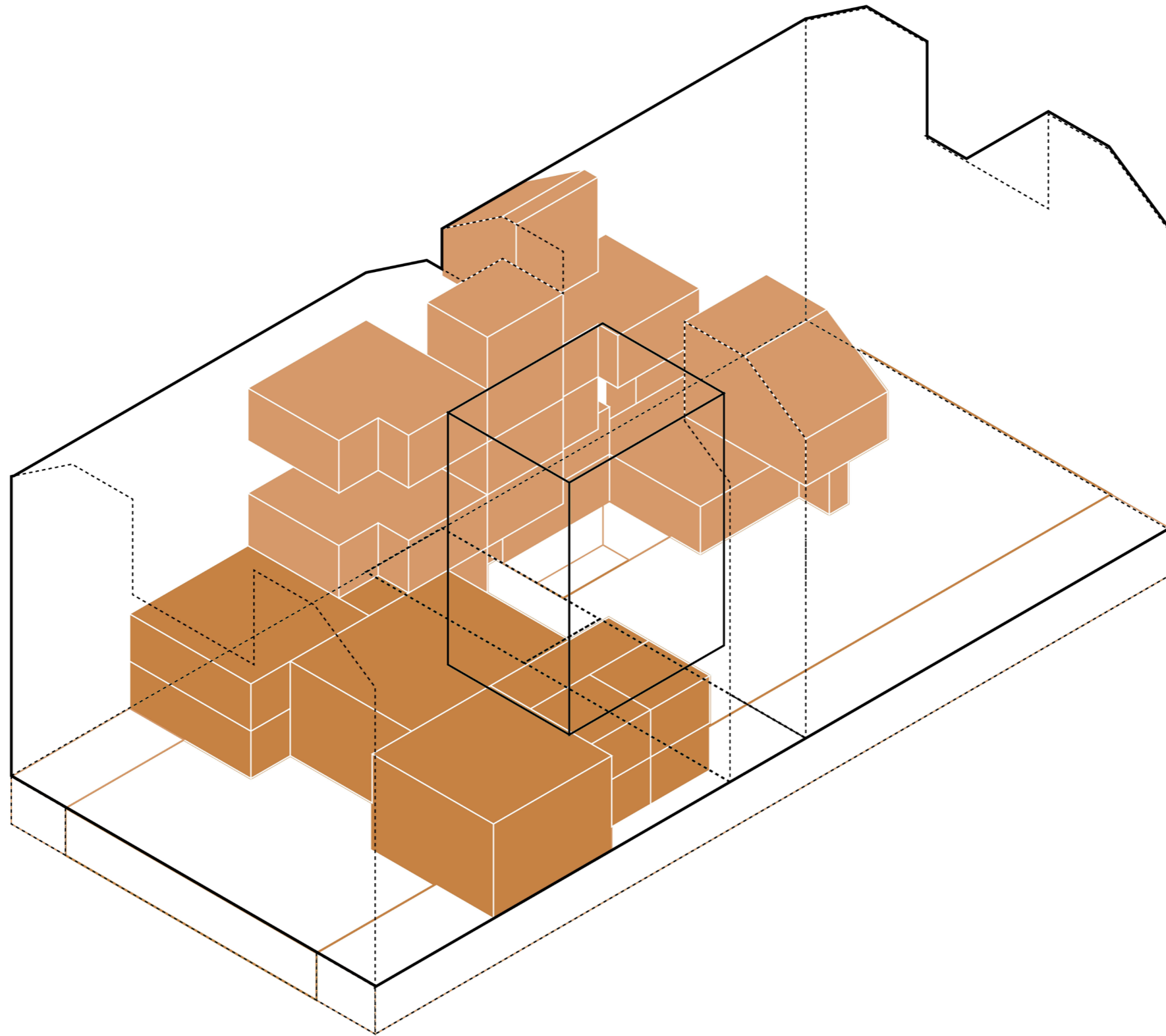


MISS SARGFABRIK



HAUS A



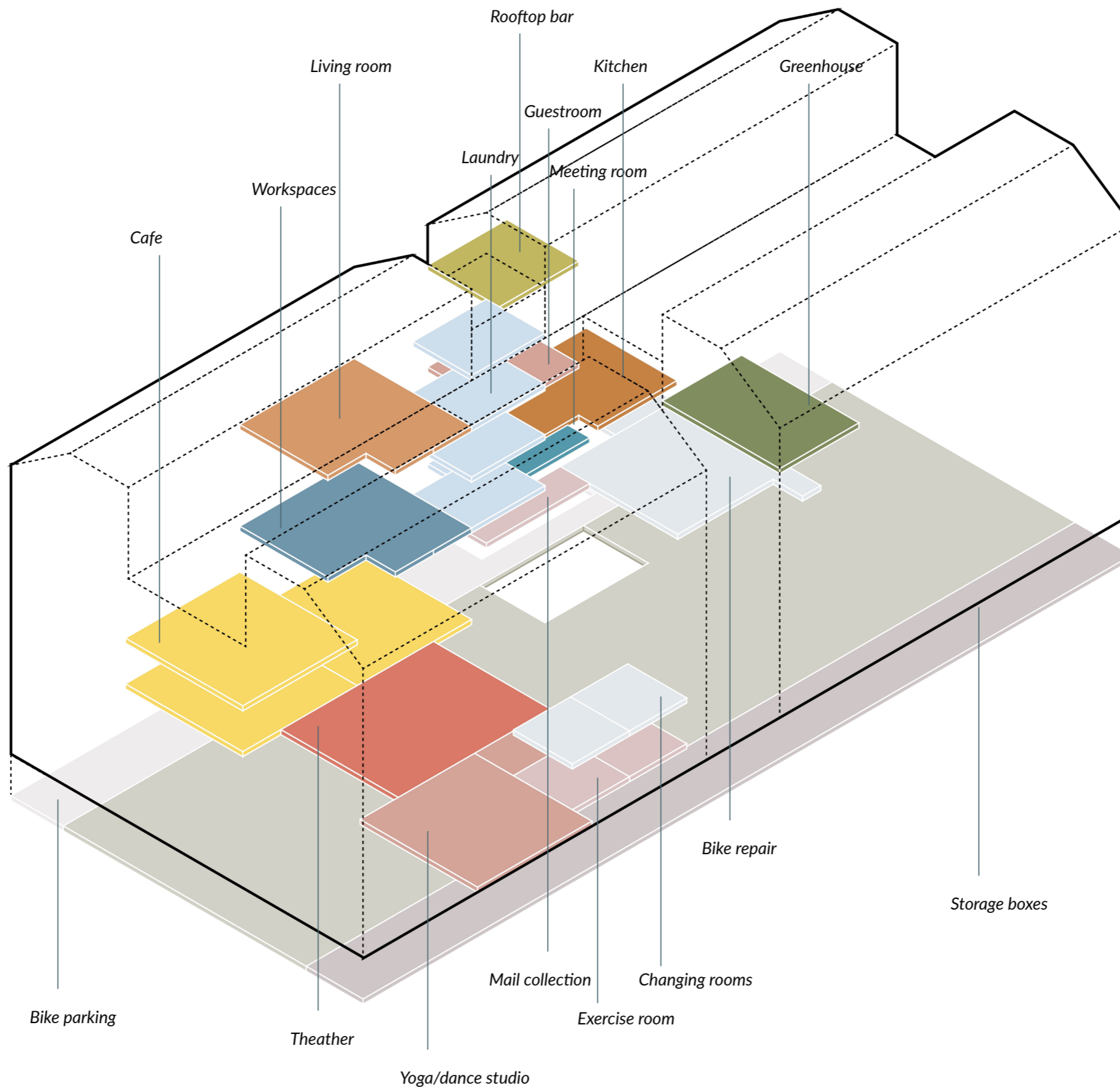


Program

Public and Collective

Position in building

- Public
- Collective
- Co-living
- Shared
- Private

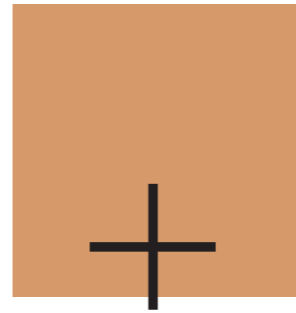
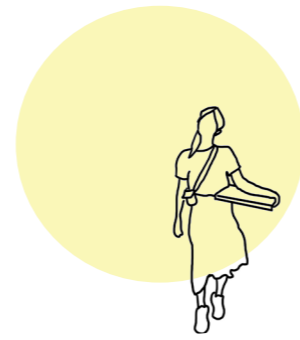


Program
Public and Collective
Functions



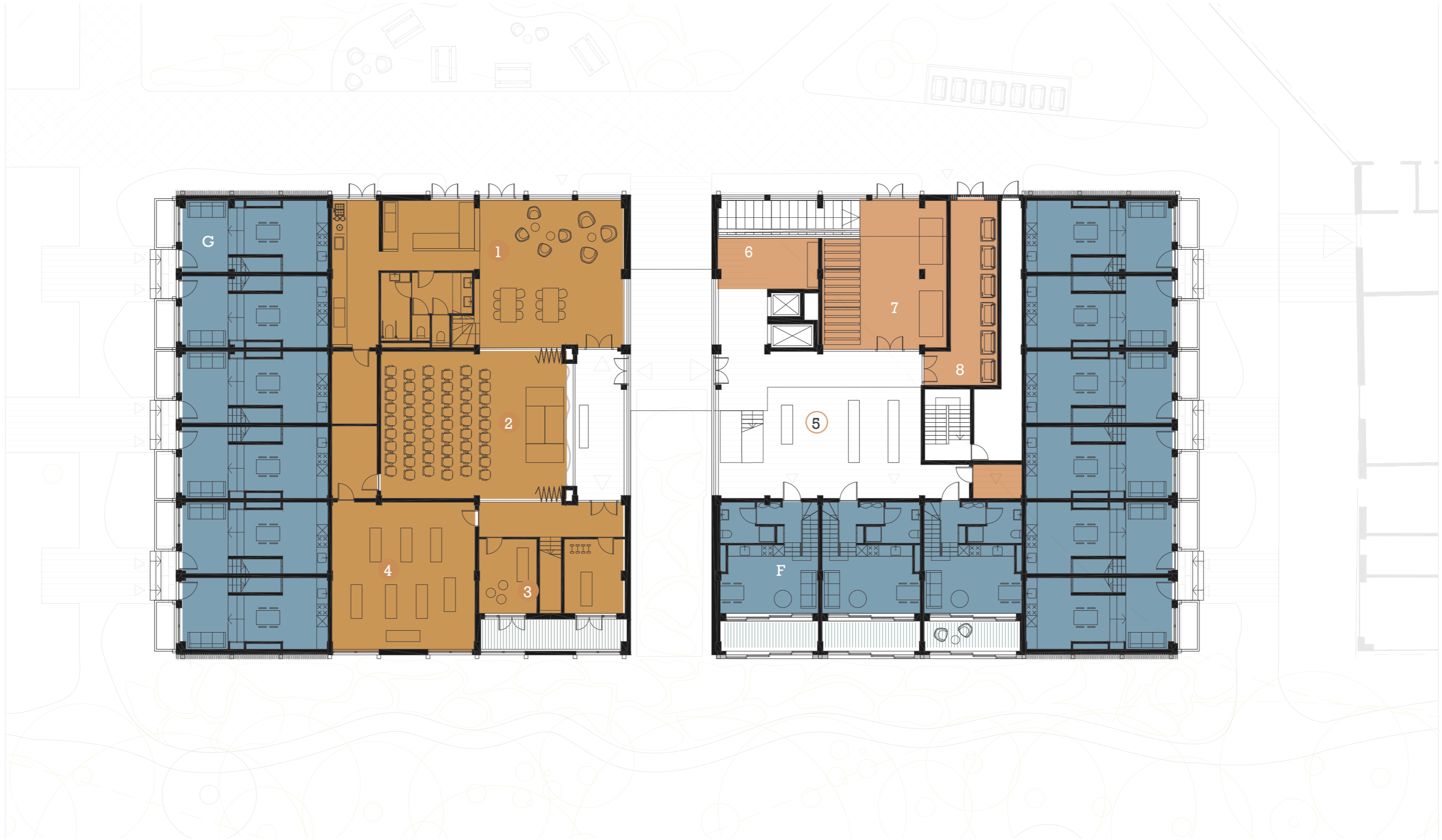
Circulation

Central core



Sharing layers

Starter



Floor Plan (0)



0 1 2 5m

	Public
	Collective
	Co-living
	Shared
	Private

Public:

- 1 Cafe
- 2 Theater
- 3 Yoga studio
- 4 Dance studio

Collective:

- 5 Entrance
- 6 Post collection
- 7 Bike repair
- 8 Waste collection

Coliving:

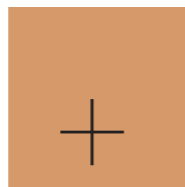
Sharing:

Private:

- G Garden type
- F Forest type



Private dwelling

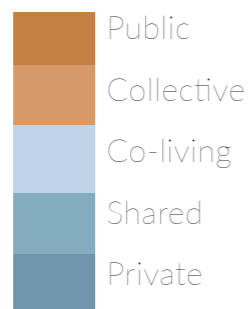




Floor Plan (1)



0 1 2 5m



Public



Collective:



- 1 Laundry room
- 2 Living room
- 3 Guest room

Coliving:



- 4 Kitchen
- 5 Living room
- 6 Wintergarden (wg)
- 6 Play room
- 7 Balcony

Sharing:



- 8 Kitchenette + Bathroom
- 9 Small room + Bathroom
- 10 Kitchenette
- 11 Library
- 12 Games

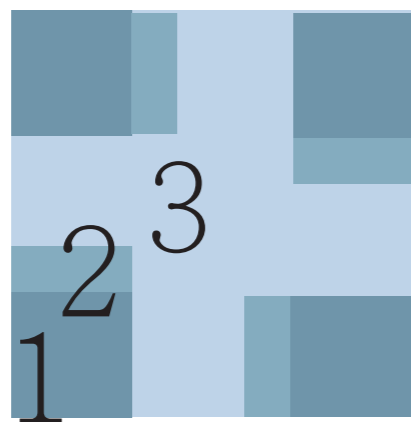
Private:



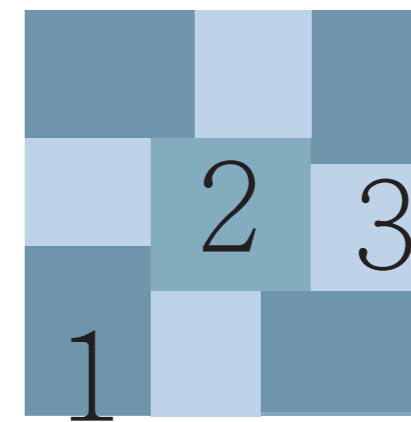
- Unit A: wintergarden
- Unit B: big room
- Unit D: disabled
- Unit E: disabled + wg



Coliving kitchen



Shared hall

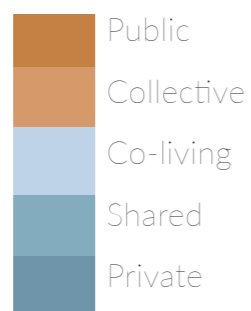




Floor Plan (4)



0 1 2 5m



Public

Collective:

- 1 Laundry room
- 2 Rooftop bar
- 3 Garden plots
- 4 Street

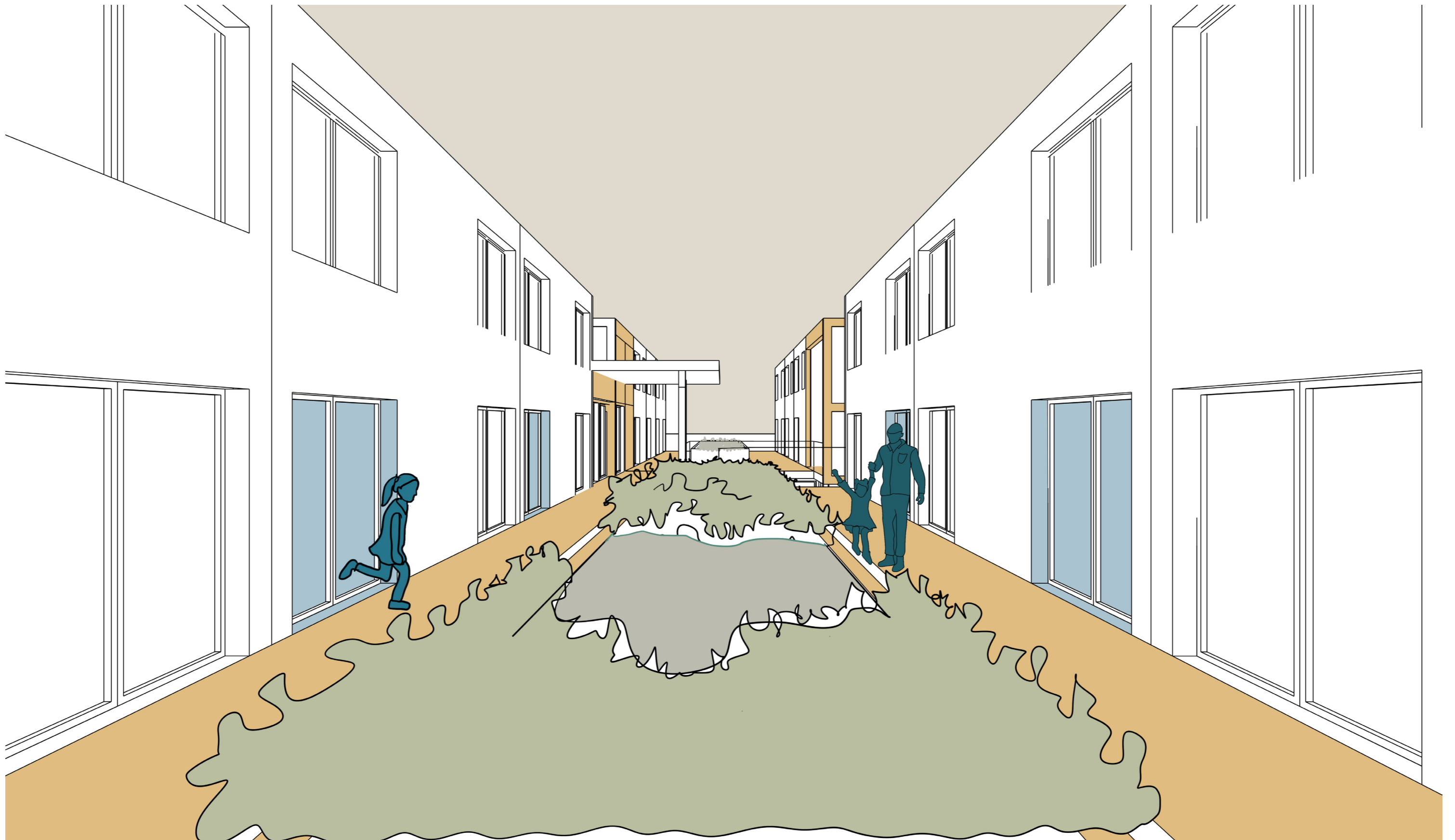
Coliving:

Sharing:

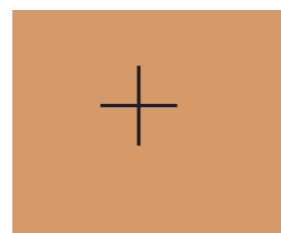
- 8 Streetrooms

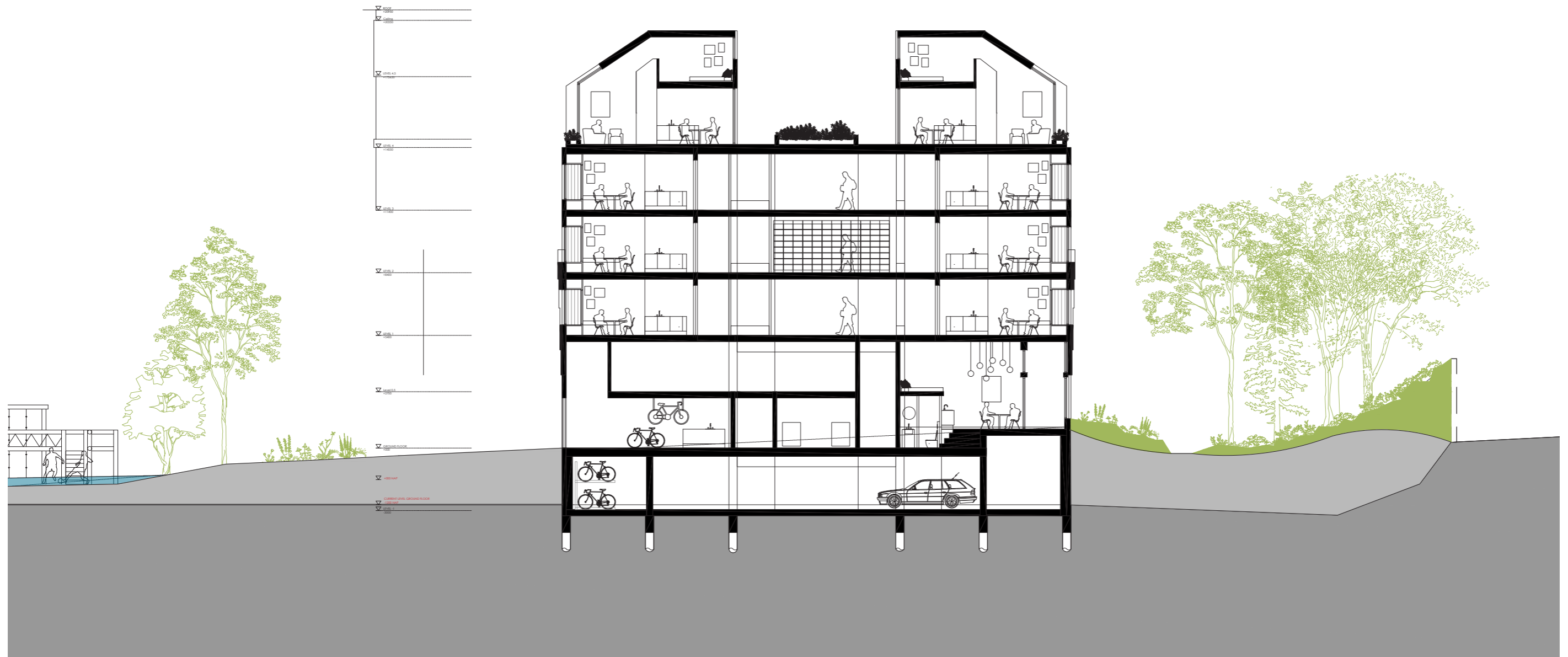
Private:

- Top Small
- Top Medium



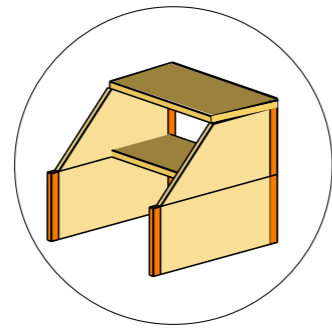
Collective street



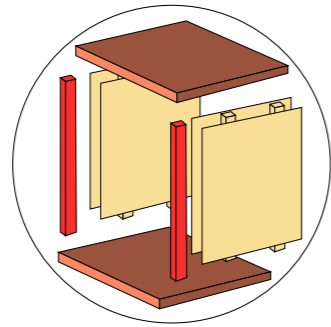


Section (A)
North - South

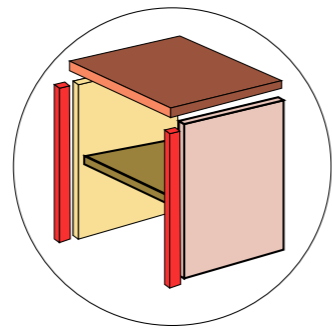
0 1 2 5m



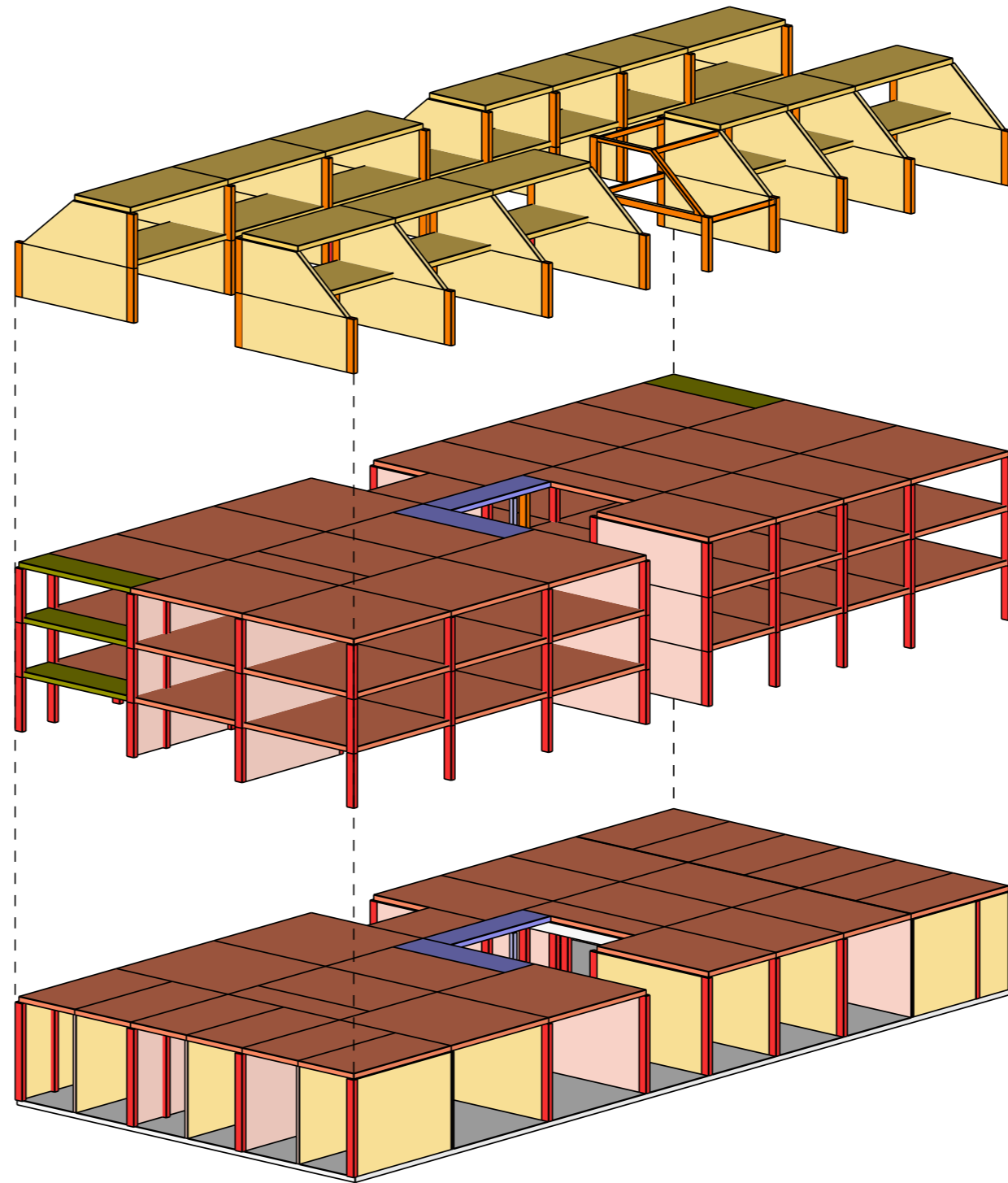
CLT
self-contained top
construction

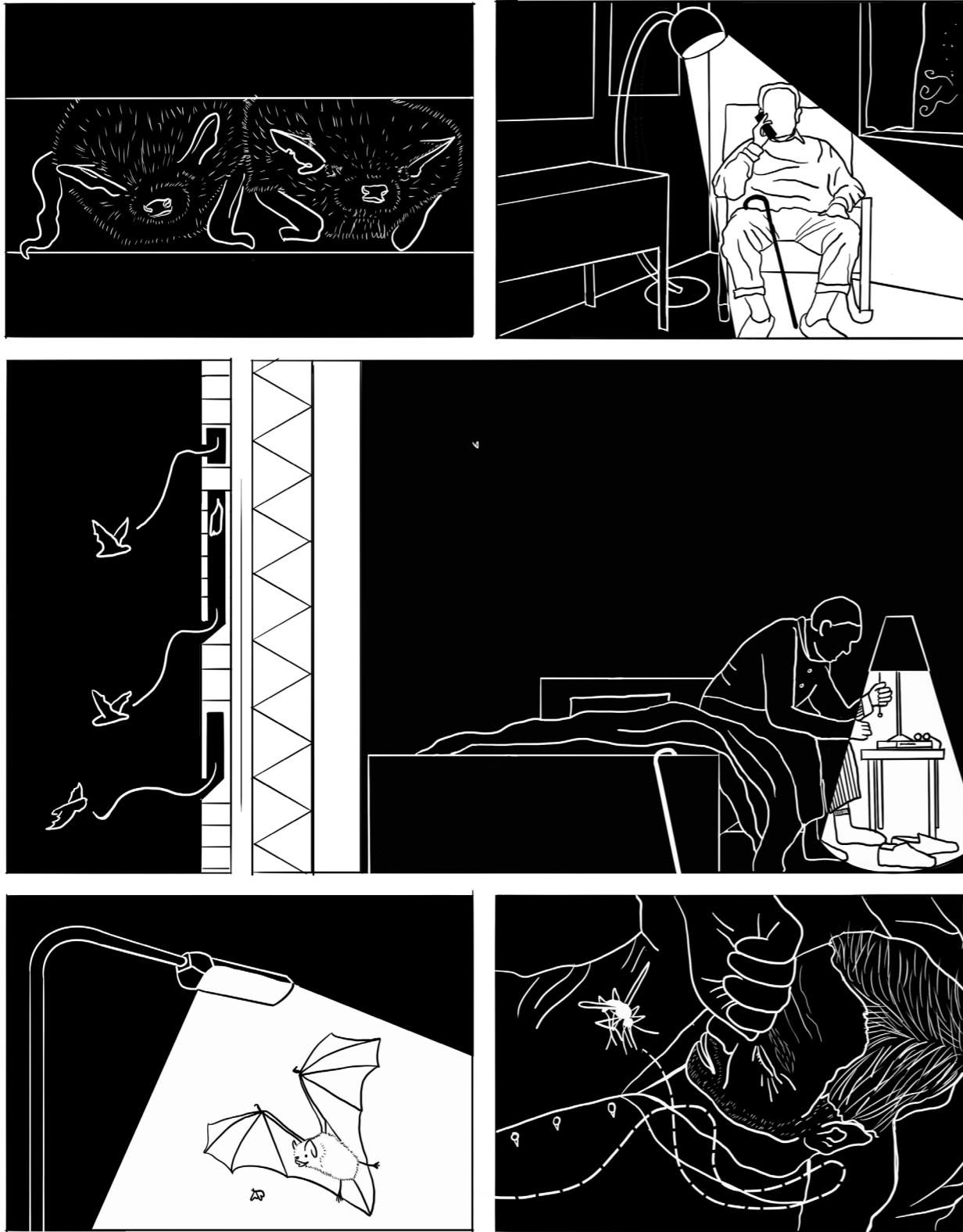


Concrete
Flexible column
structure with panels

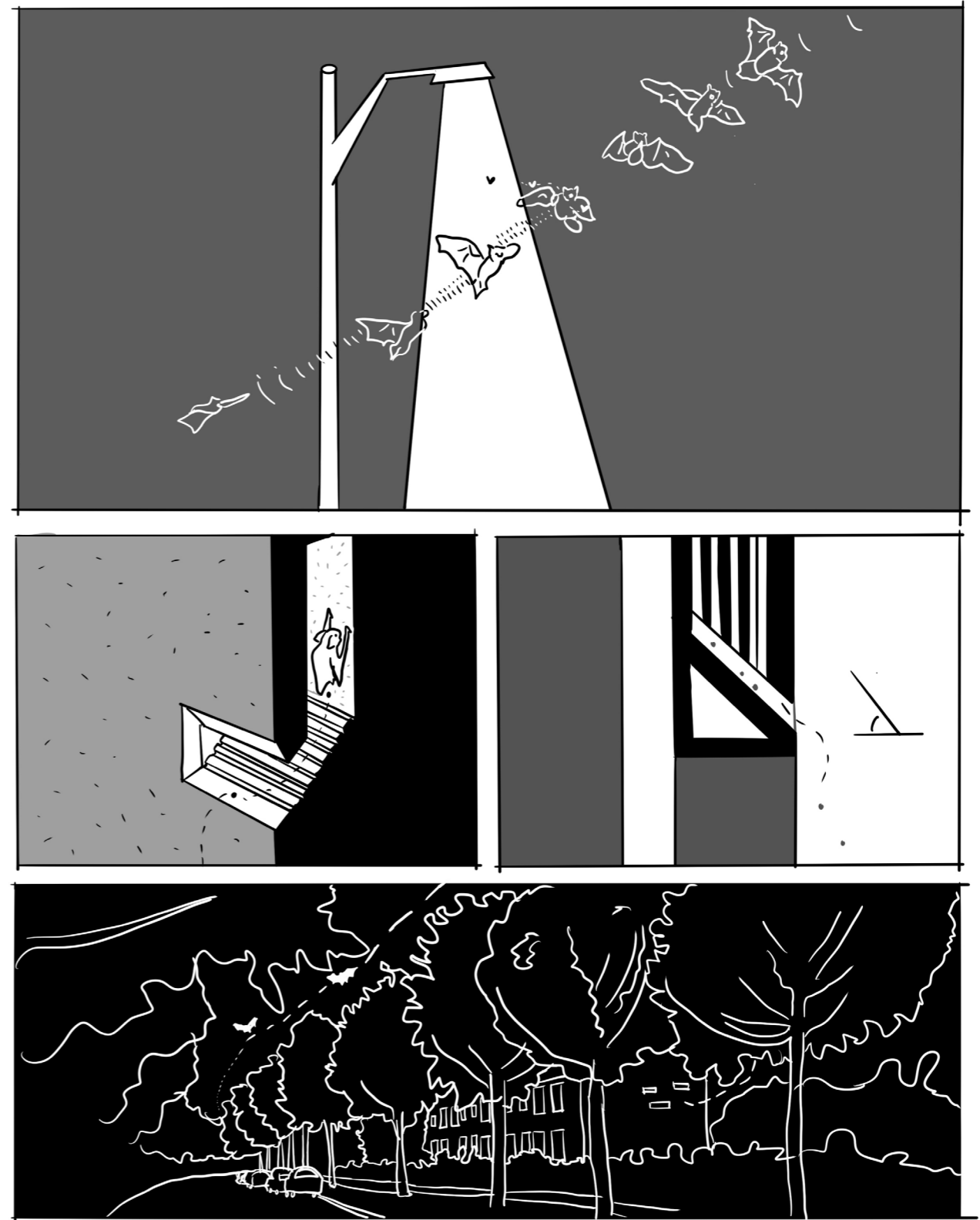


Concrete
Table top ground floor
with CLT Loft boxes



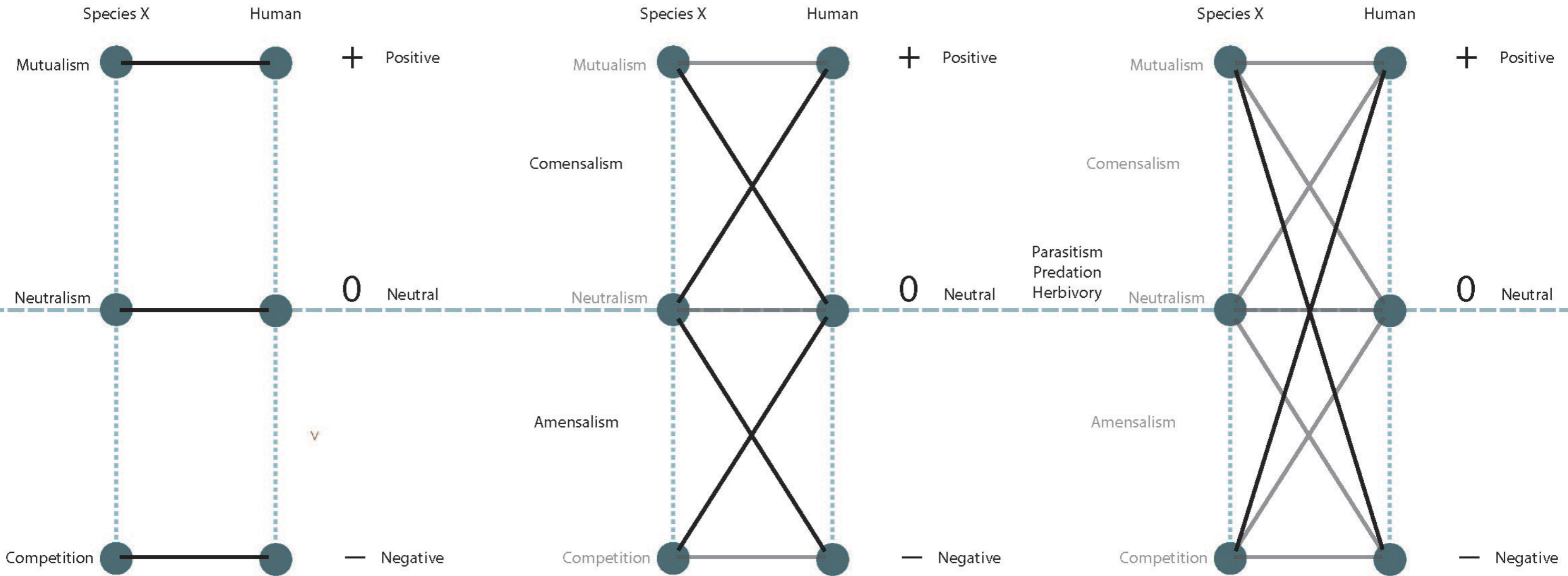


Cohabitation

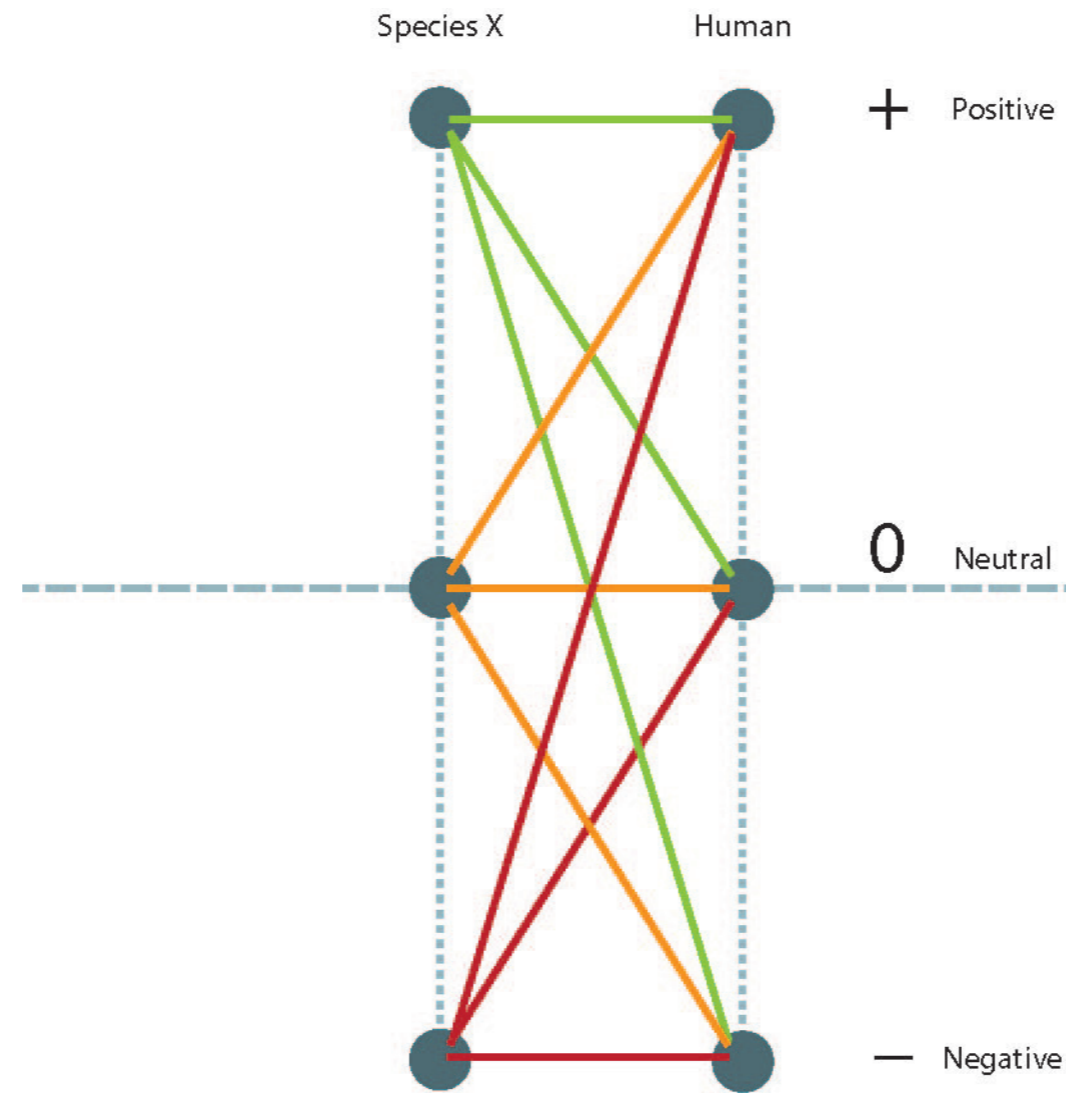


Daily routines bats

COHABITATION



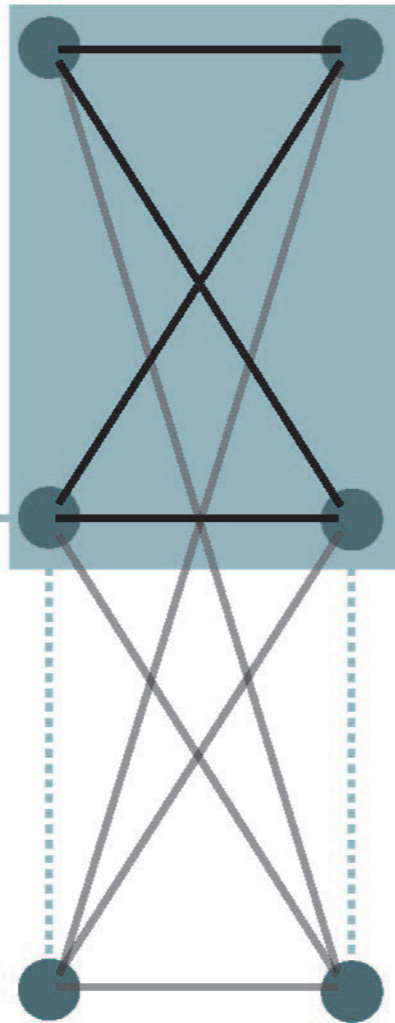
COHABITATION



COHABITATION

Species X Human

SYMBIOSIS



+ Positive

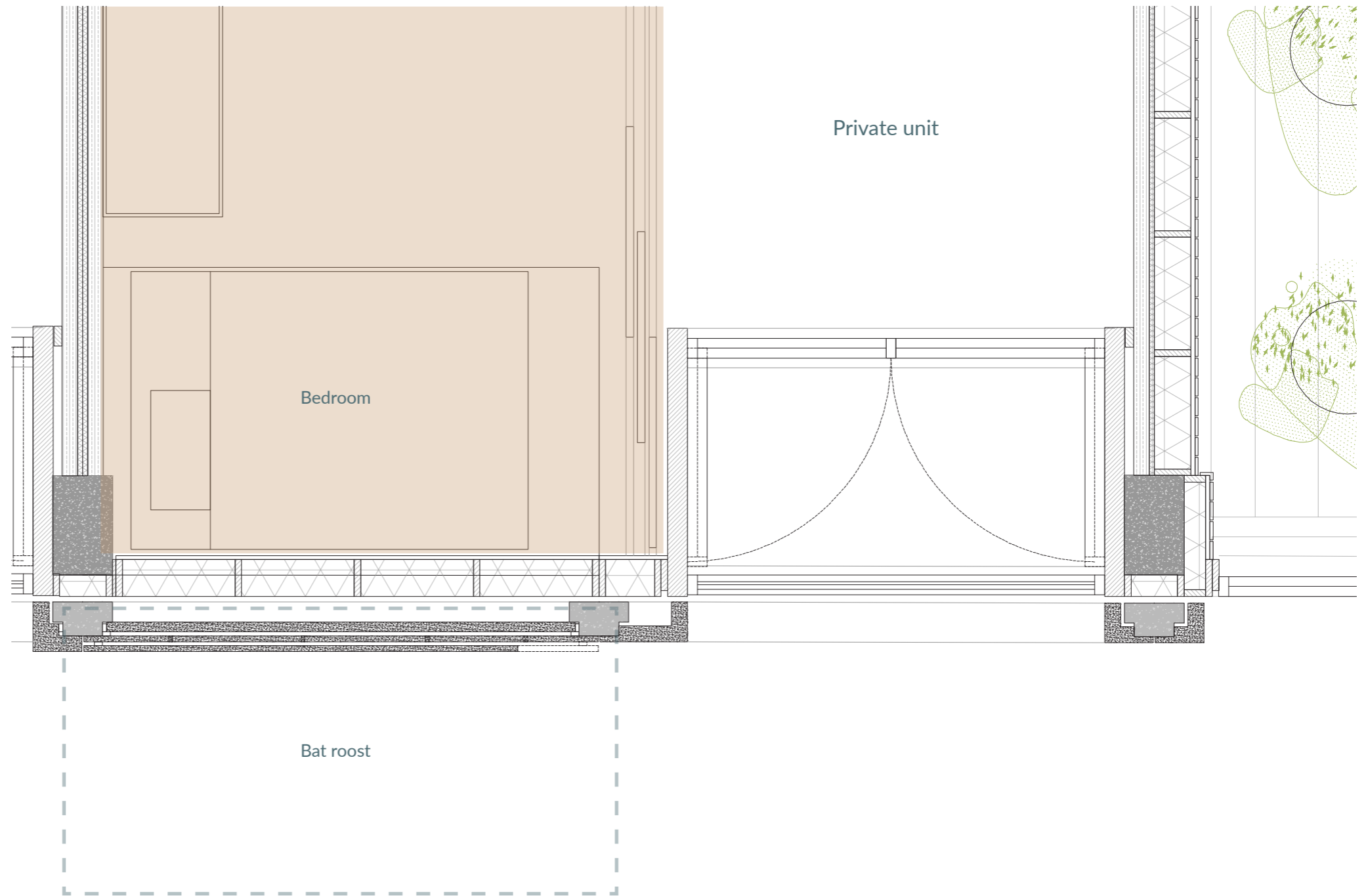
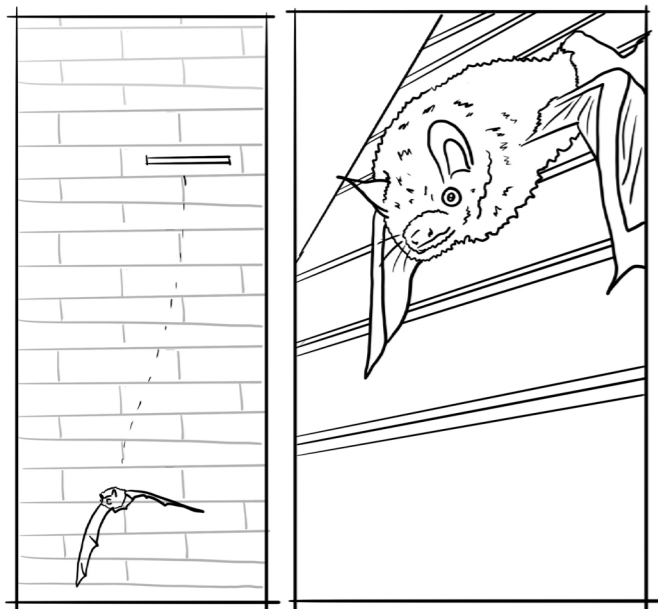
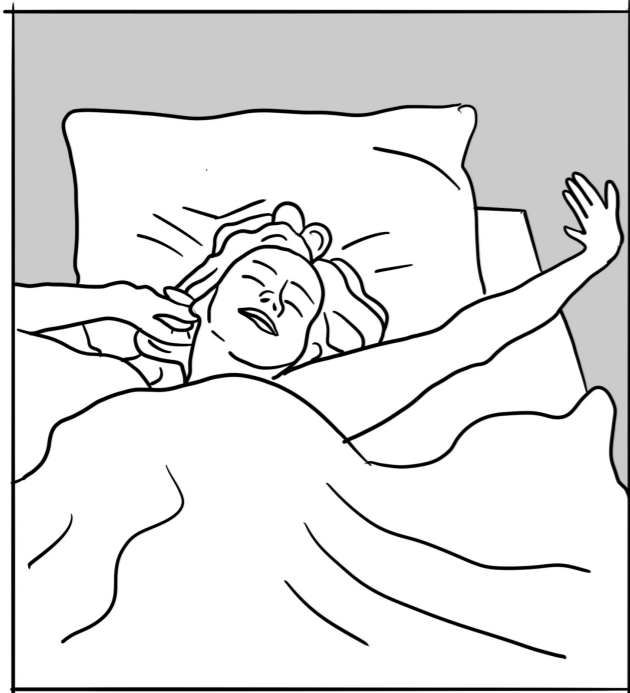
0 Neutral

- Negative



COHABITATION

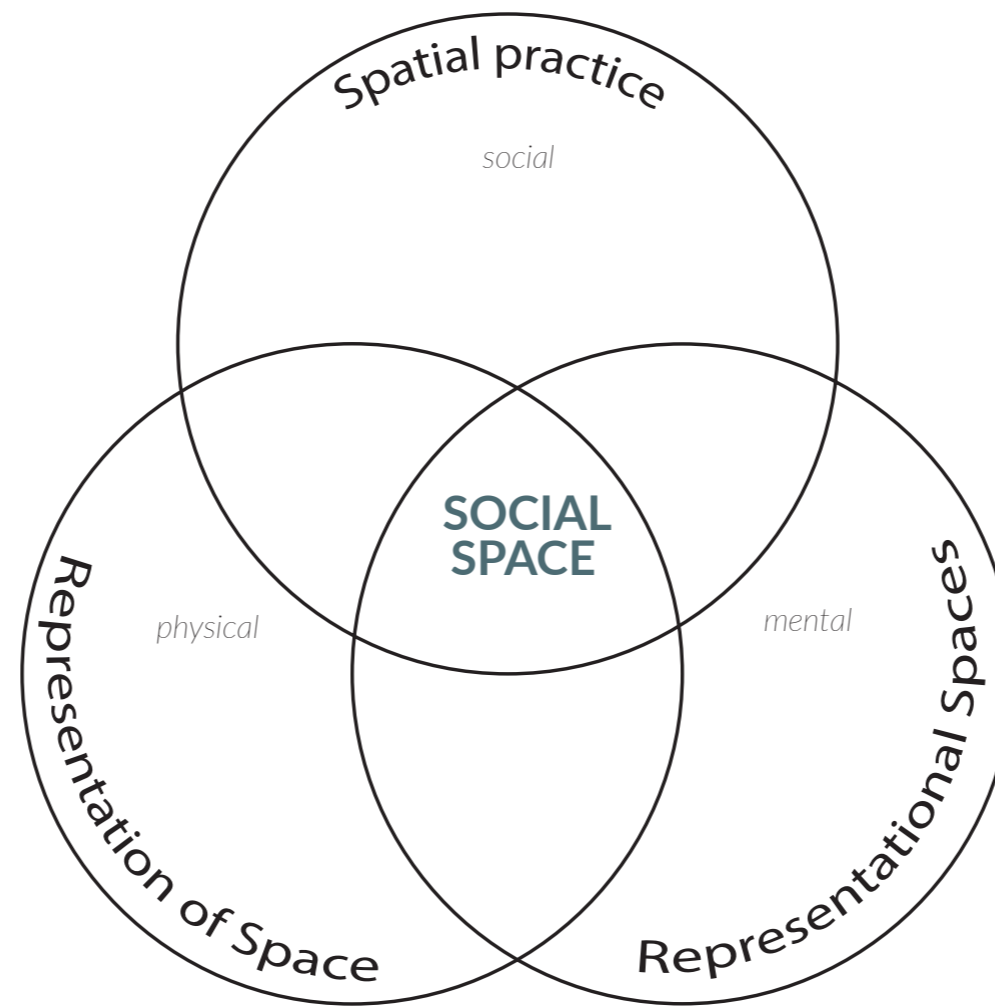
PROVIDING SPACE FOR NON-HUMAN SPECIES





RESEARCH FRAMEWORK

PRODUCTION OF SPACE (1974) - HENRI LEFEBVRE

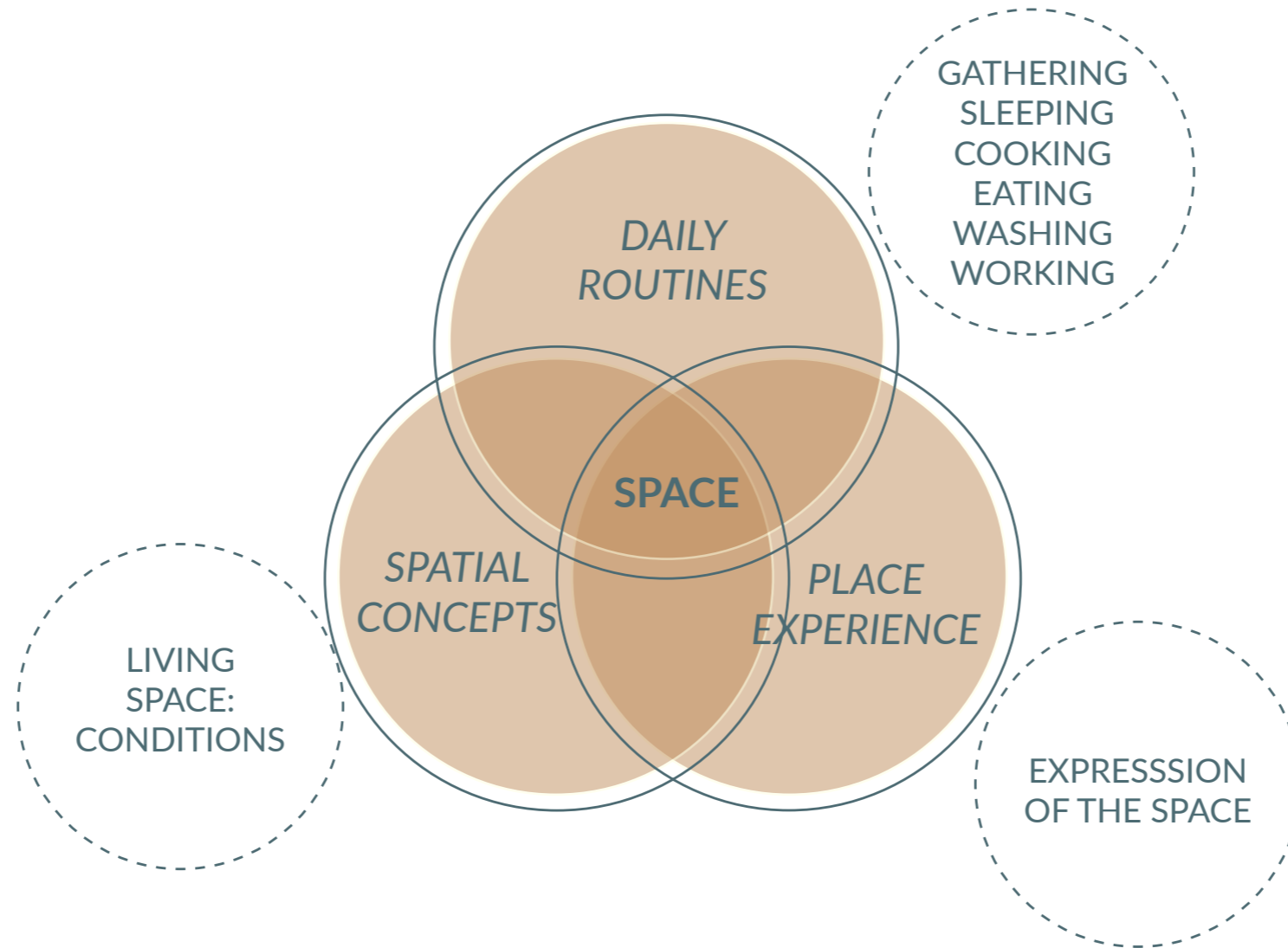


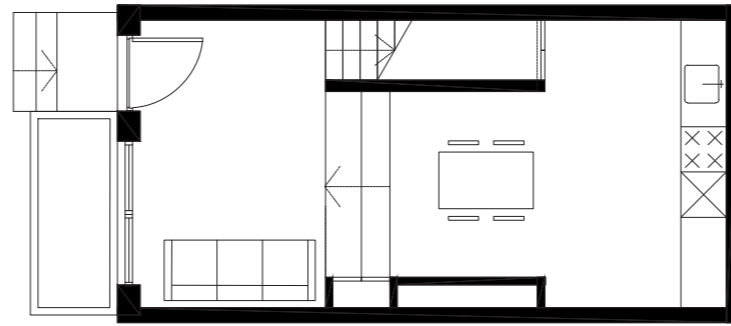
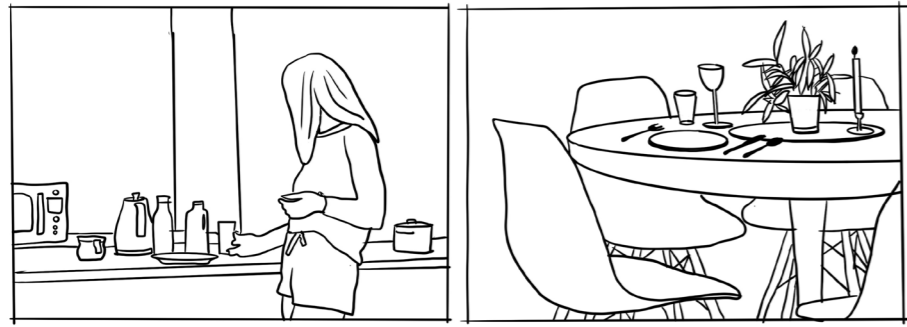
“[SPACE is] a precondition and a result of social superstructures”

(Lefebvre, 1974, p. 85)

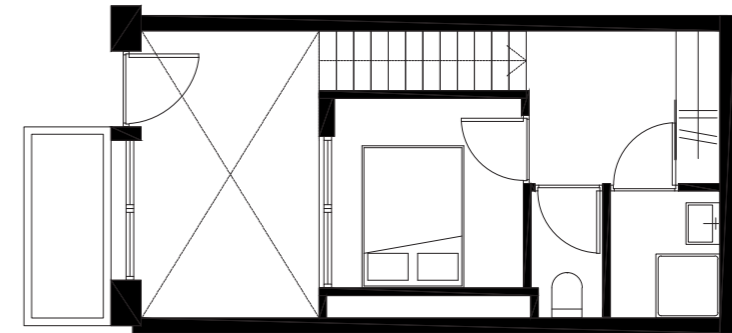
RESEARCH FRAMEWORK

LAYERS OF DWELLING SPACE

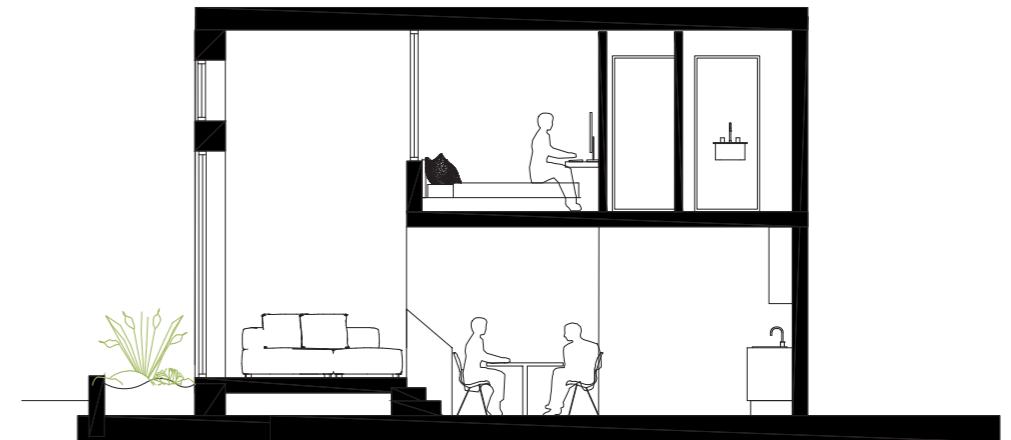
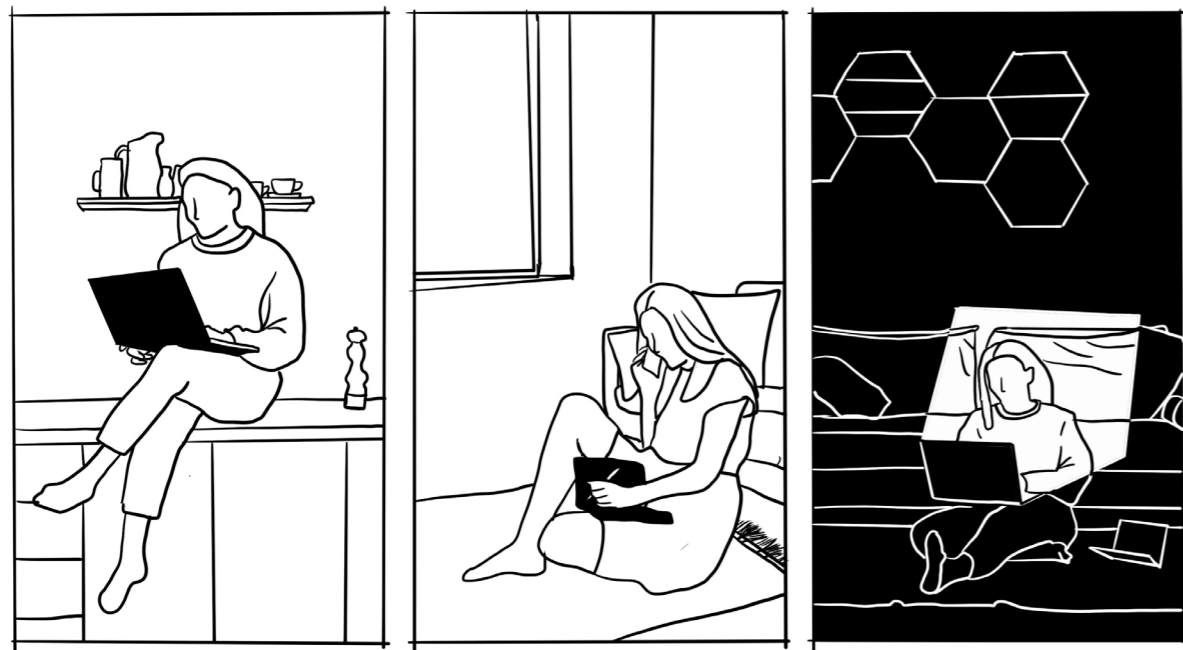




(0)



(1)



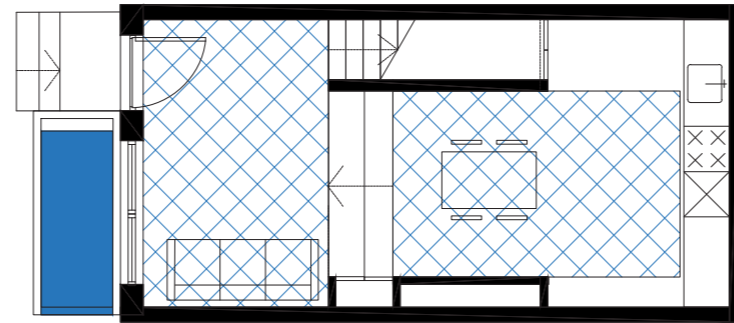
Garden Type

Target: Starter

0 1 2 4m



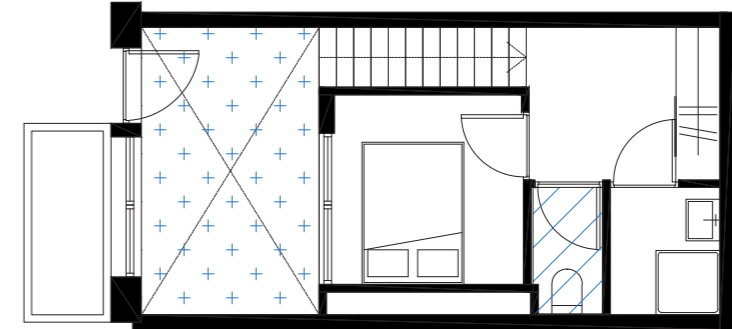
Garden as extension of the living space



(0)

Similar room sizes

M3 vs M2

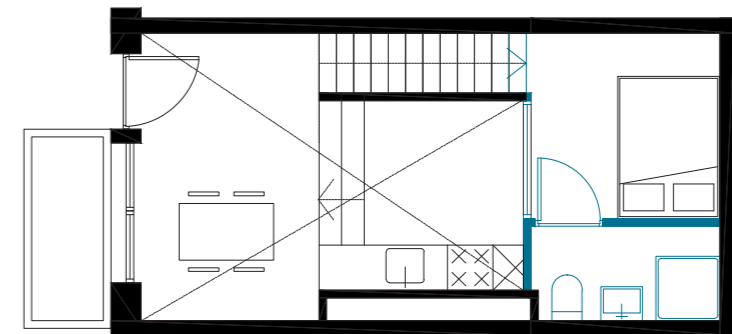


(1)

Separate toilet



Casco to be determined



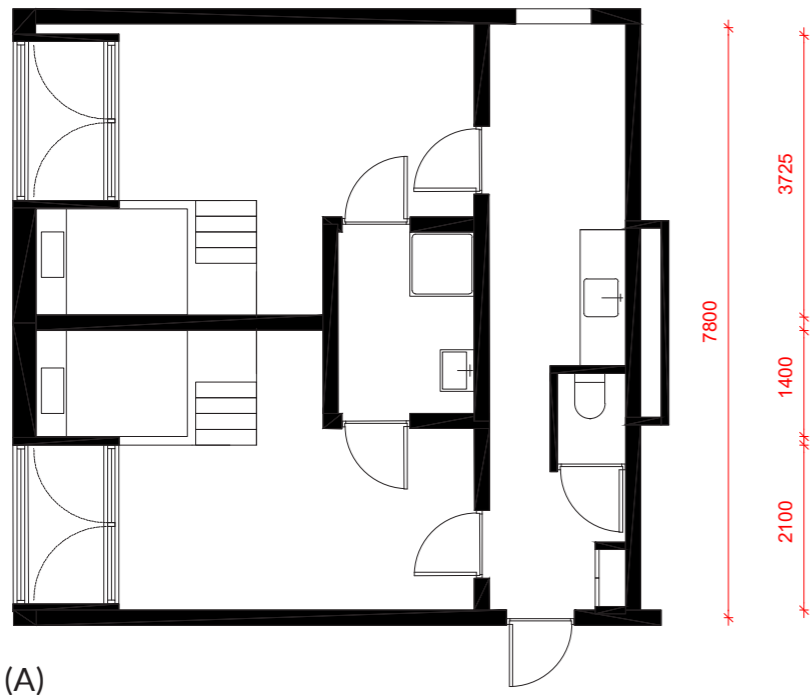
Spatial concepts

Garden Type

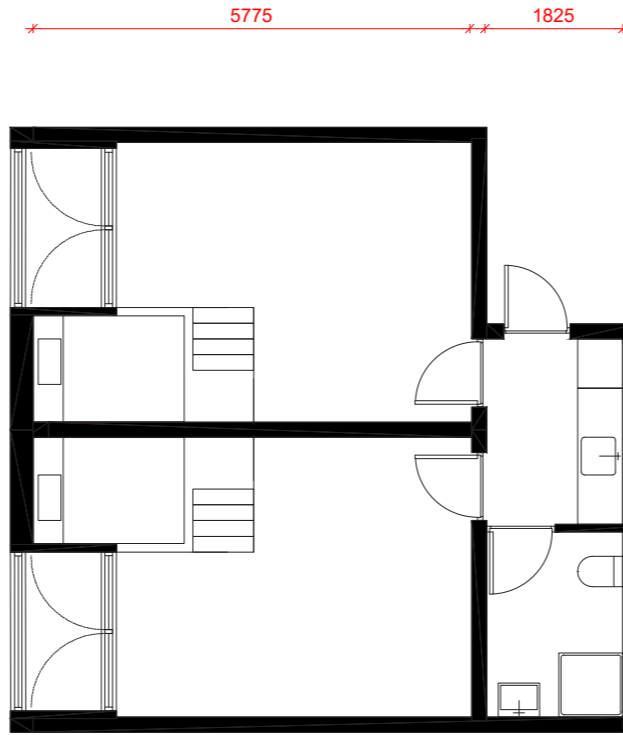
Target: Starter

0 1 2 4m

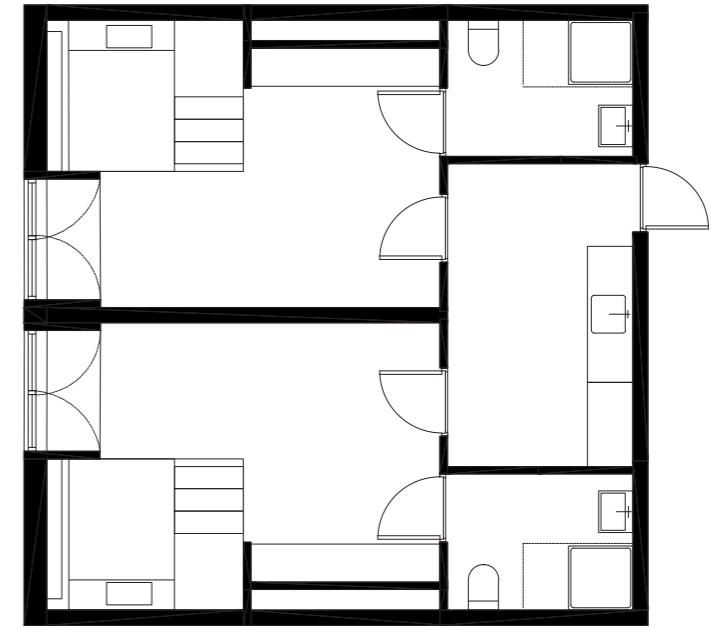




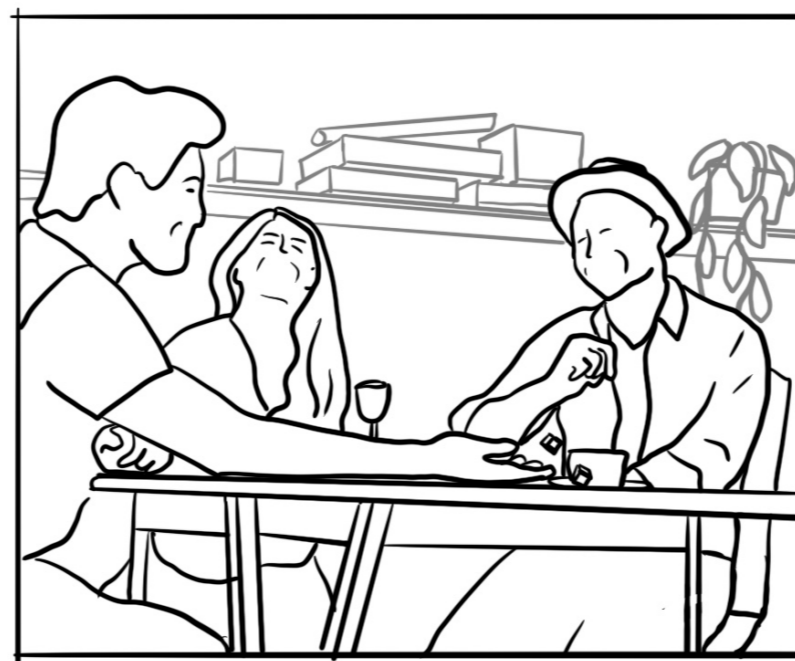
(A)



(B)



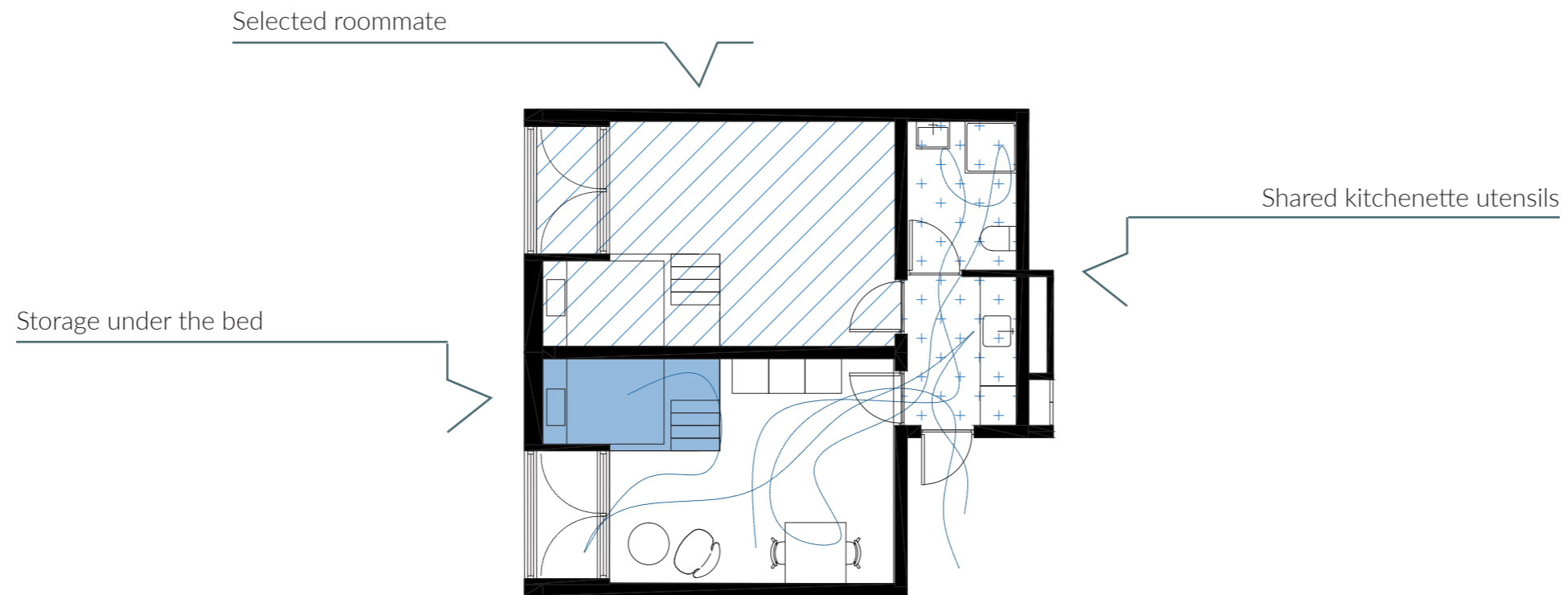
(C)



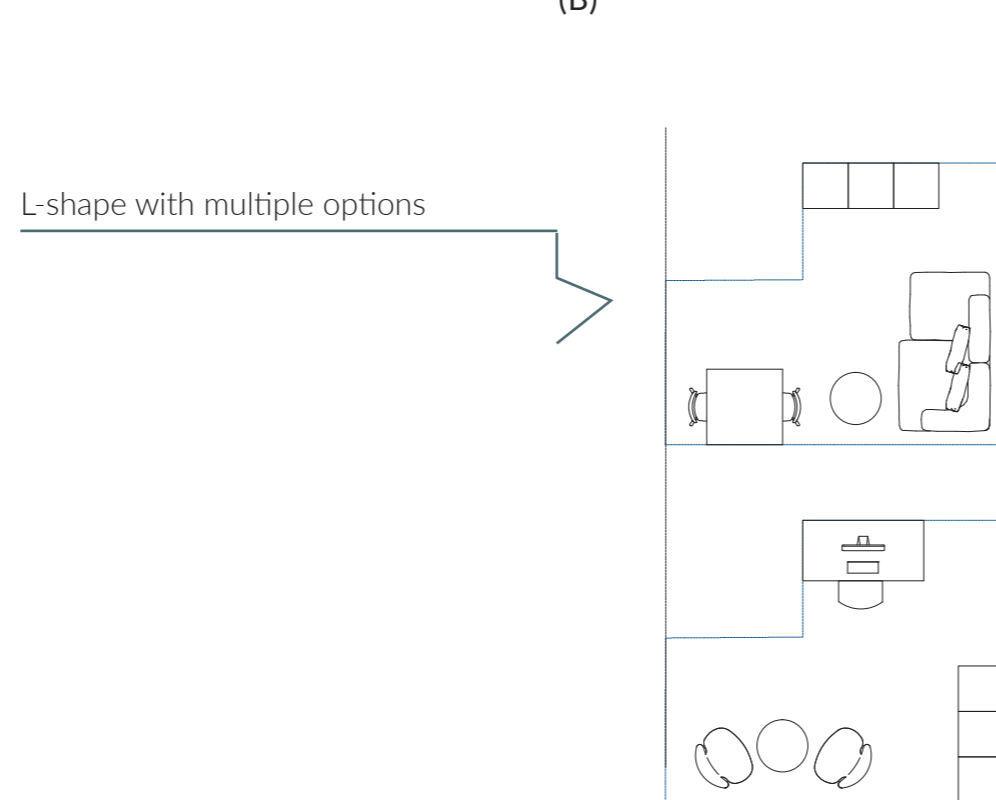
Cluster A - Shared
Target: Middle aged adults

0 1 2 4m





(B)

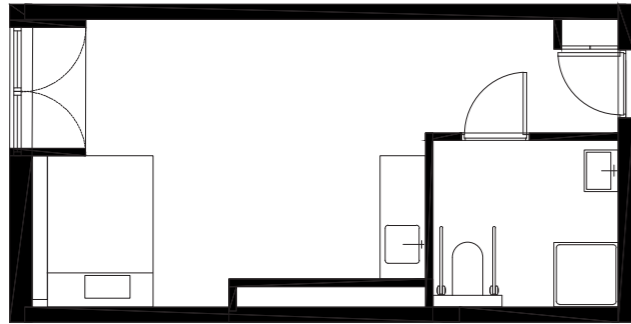


Spatial concepts

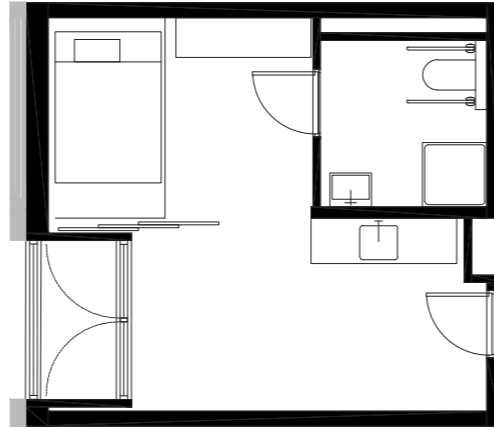
Cluster A - Shared
Target: Middle aged adults

0 1 2 4m





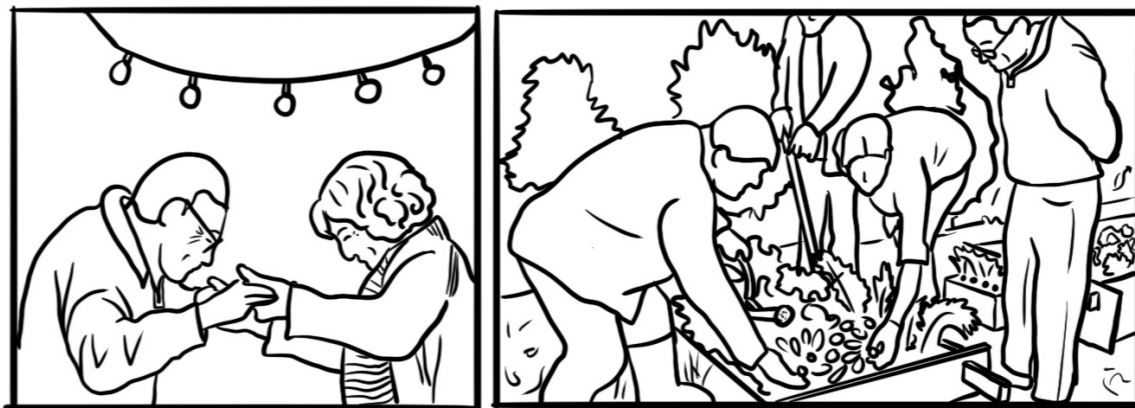
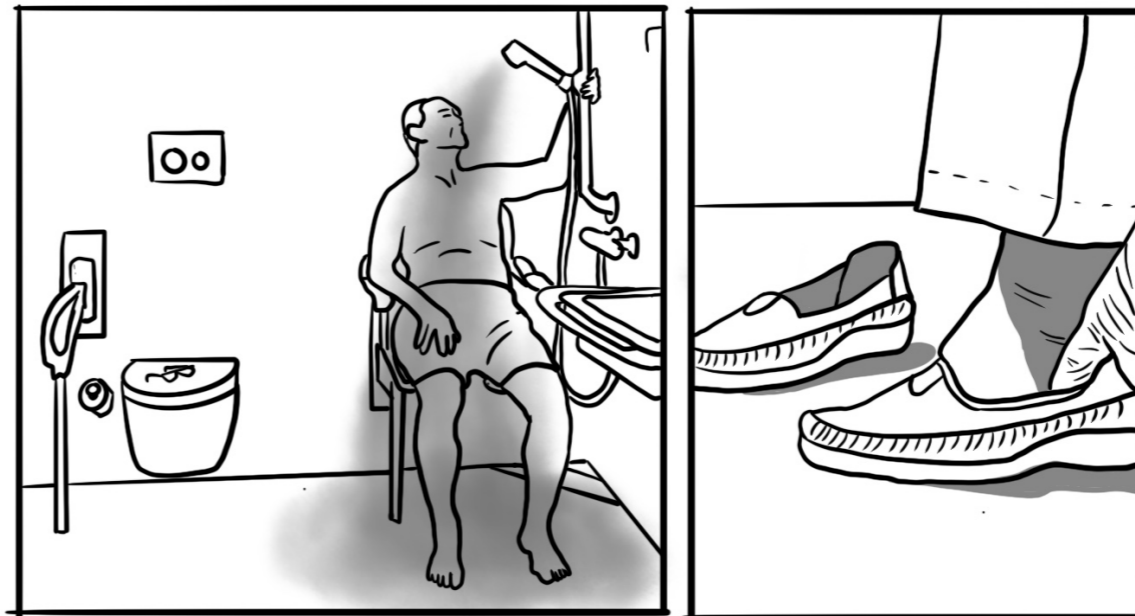
(A)



(B)

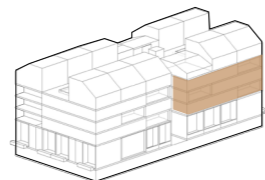


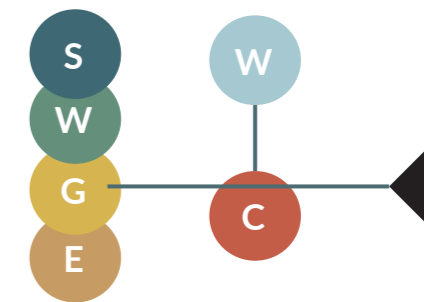
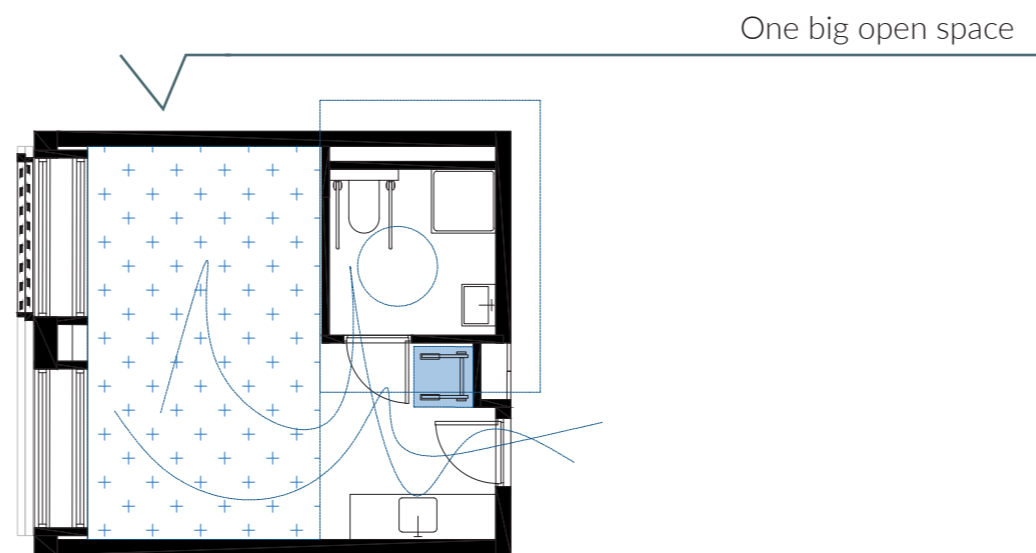
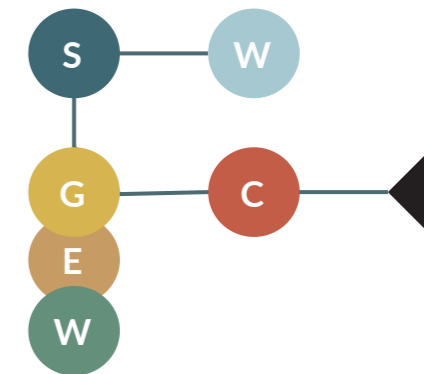
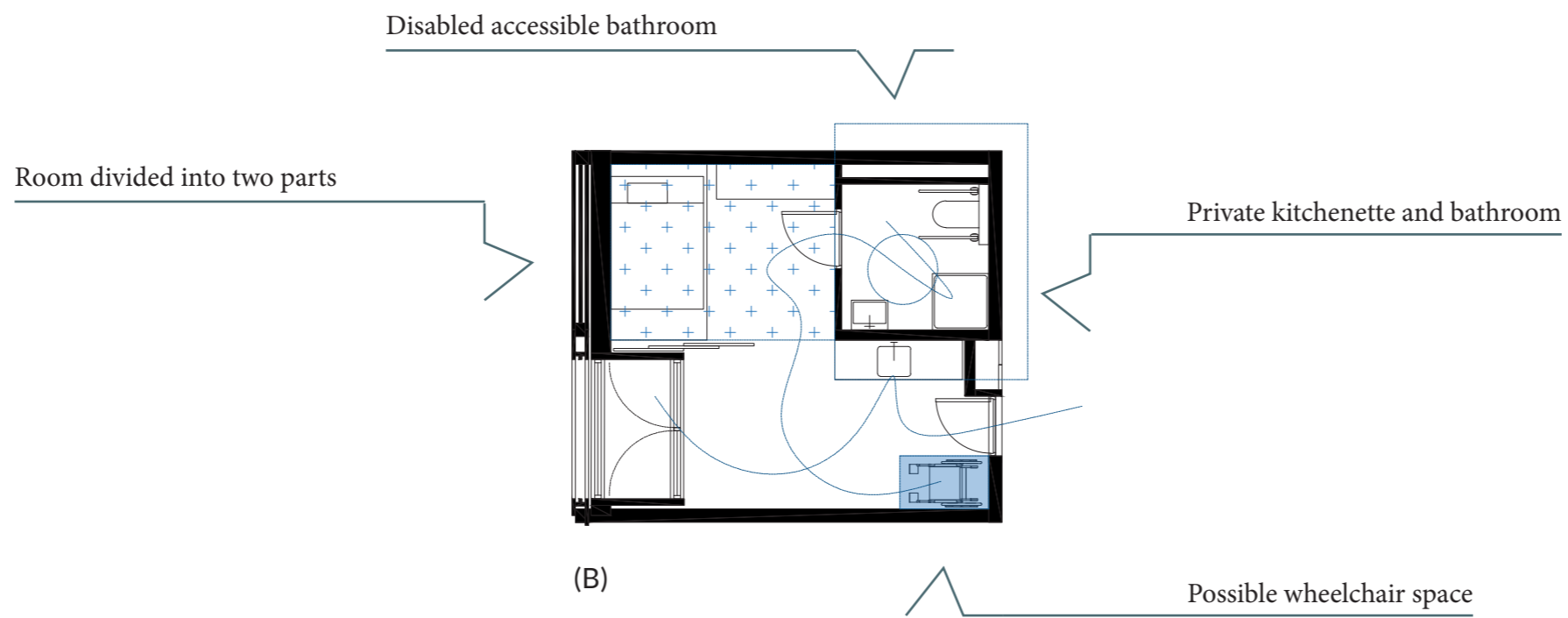
(C)



Cluster B - Individual
Target: Elderly

0 1 2 4m



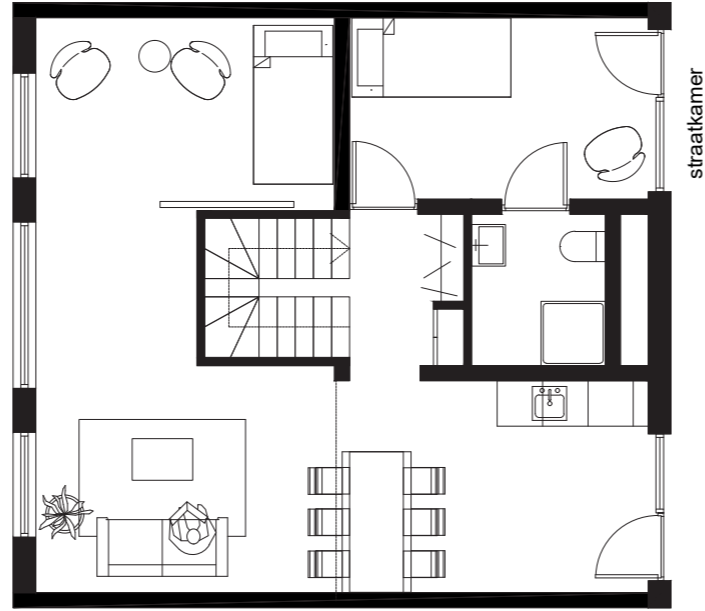
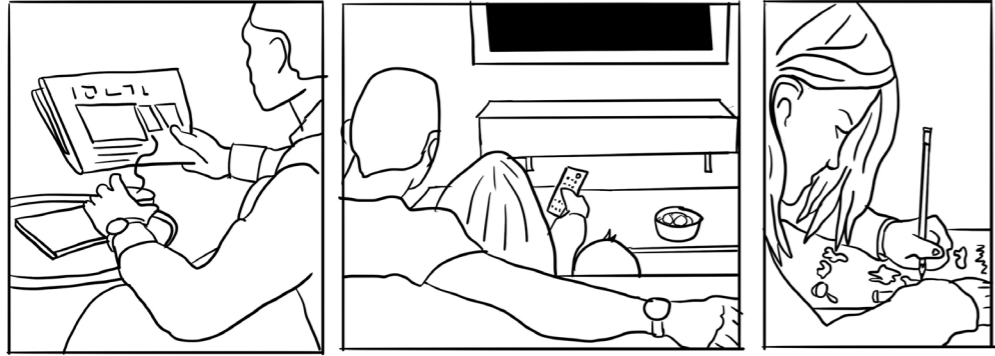


Spatial concepts

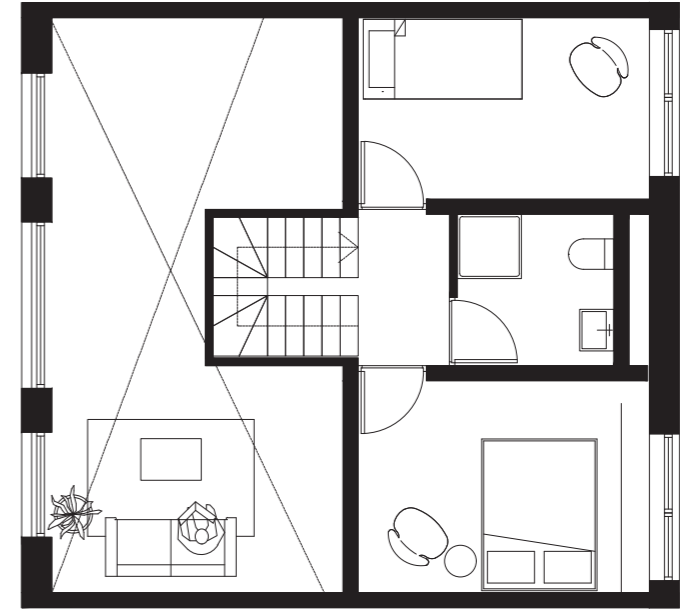
Cluster B - Individual
Target: Elderly

0 1 2 4m

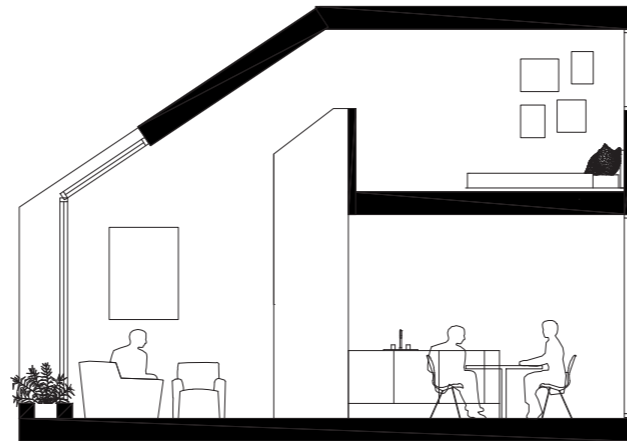
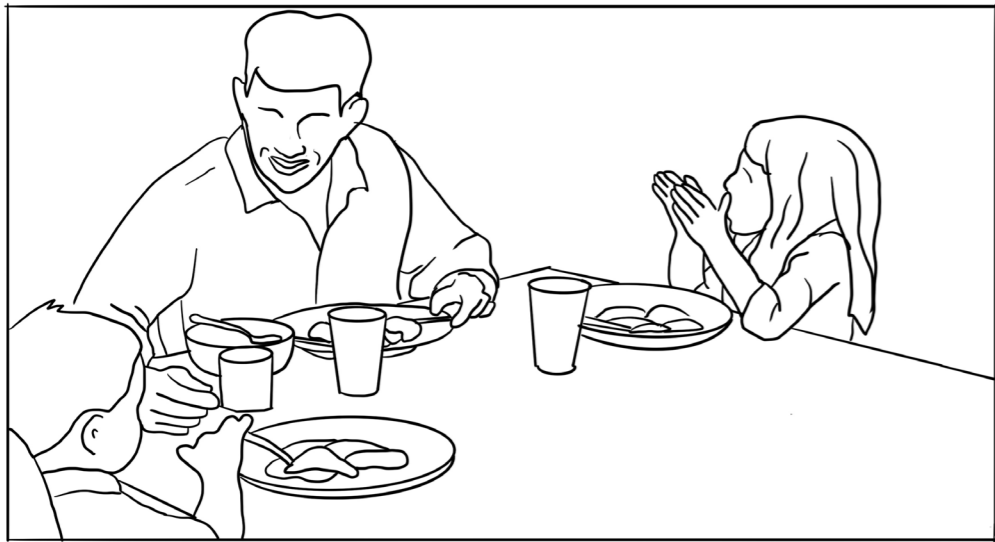




(0)



(1)



Topper

Target: Single parent

0 1 2 4m



Annex room

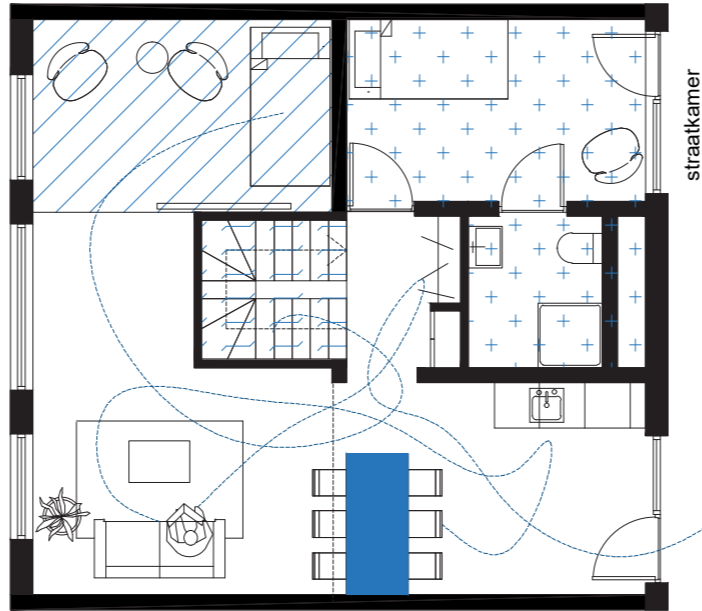
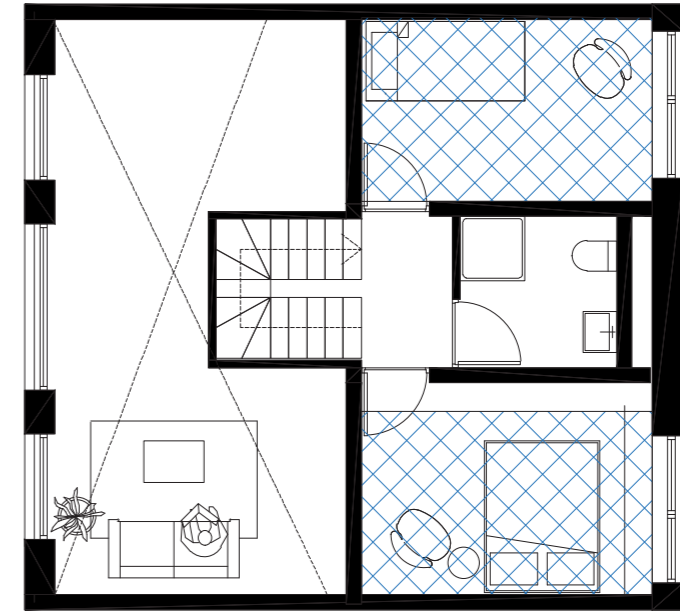


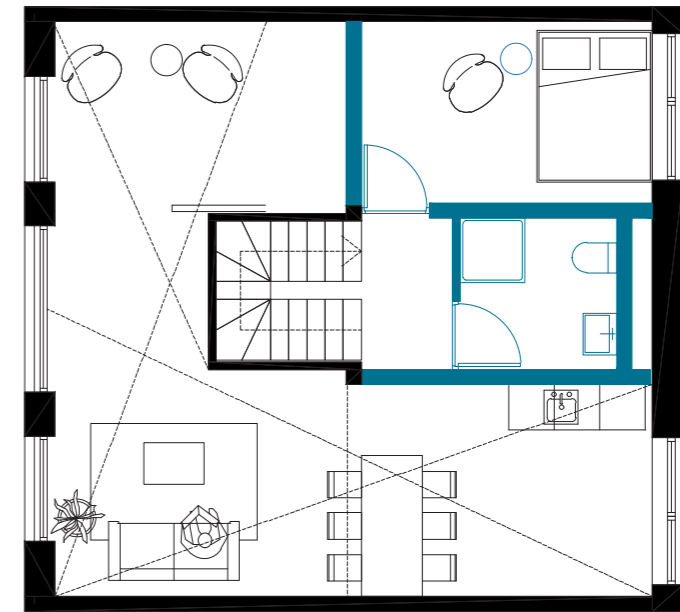
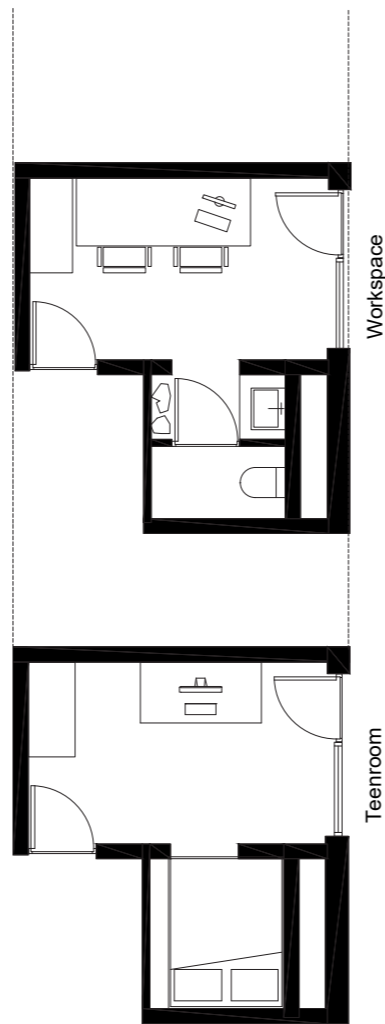
Table at the centre

Similar bedroom sizes



Casco to be determined

Streetroom flexible funtion



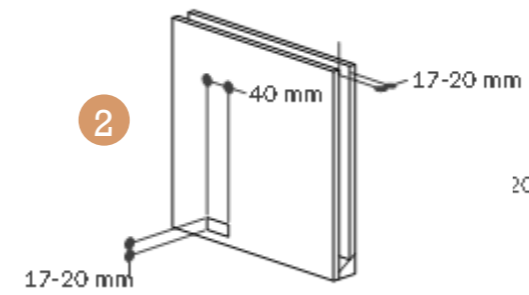
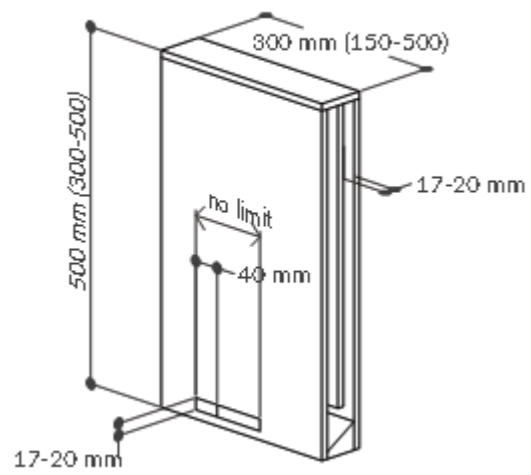
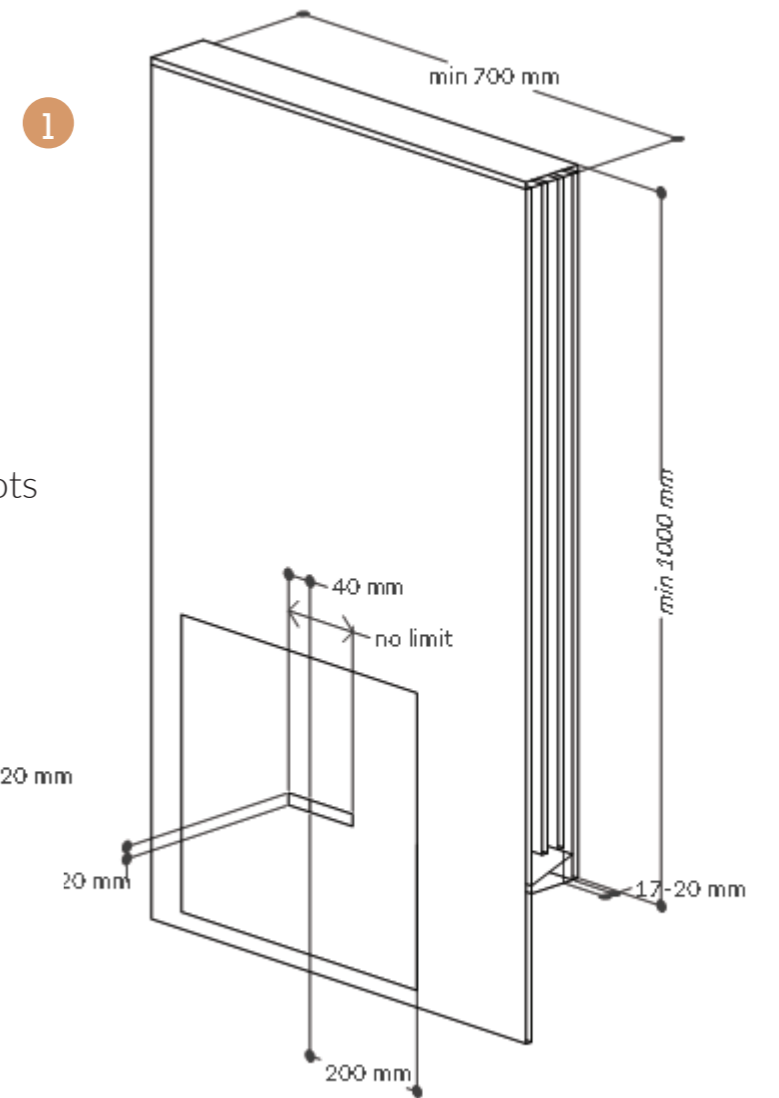
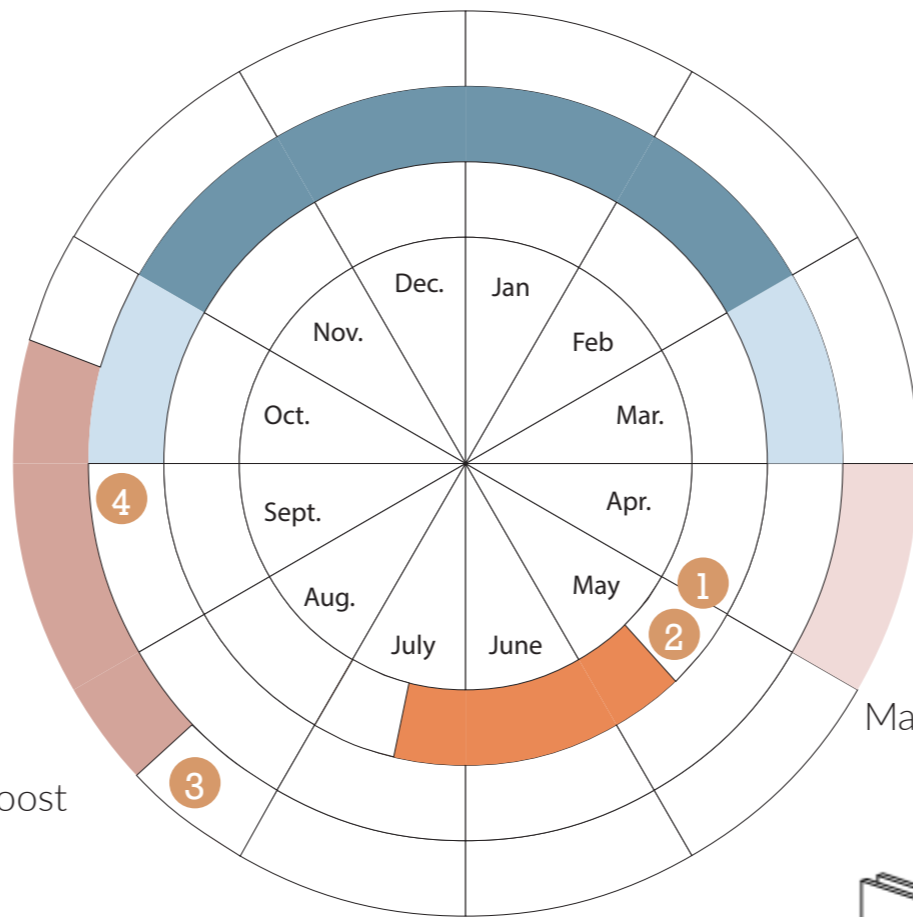
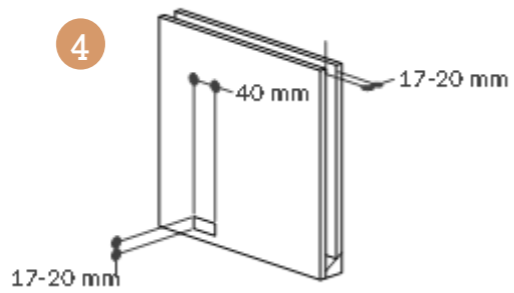
Spatial concepts

Topper

Target: Single parent

0 1 2 4m





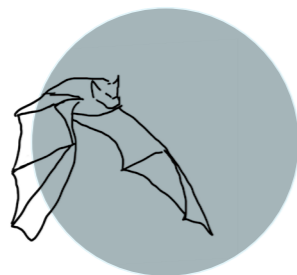
Hibernation roost

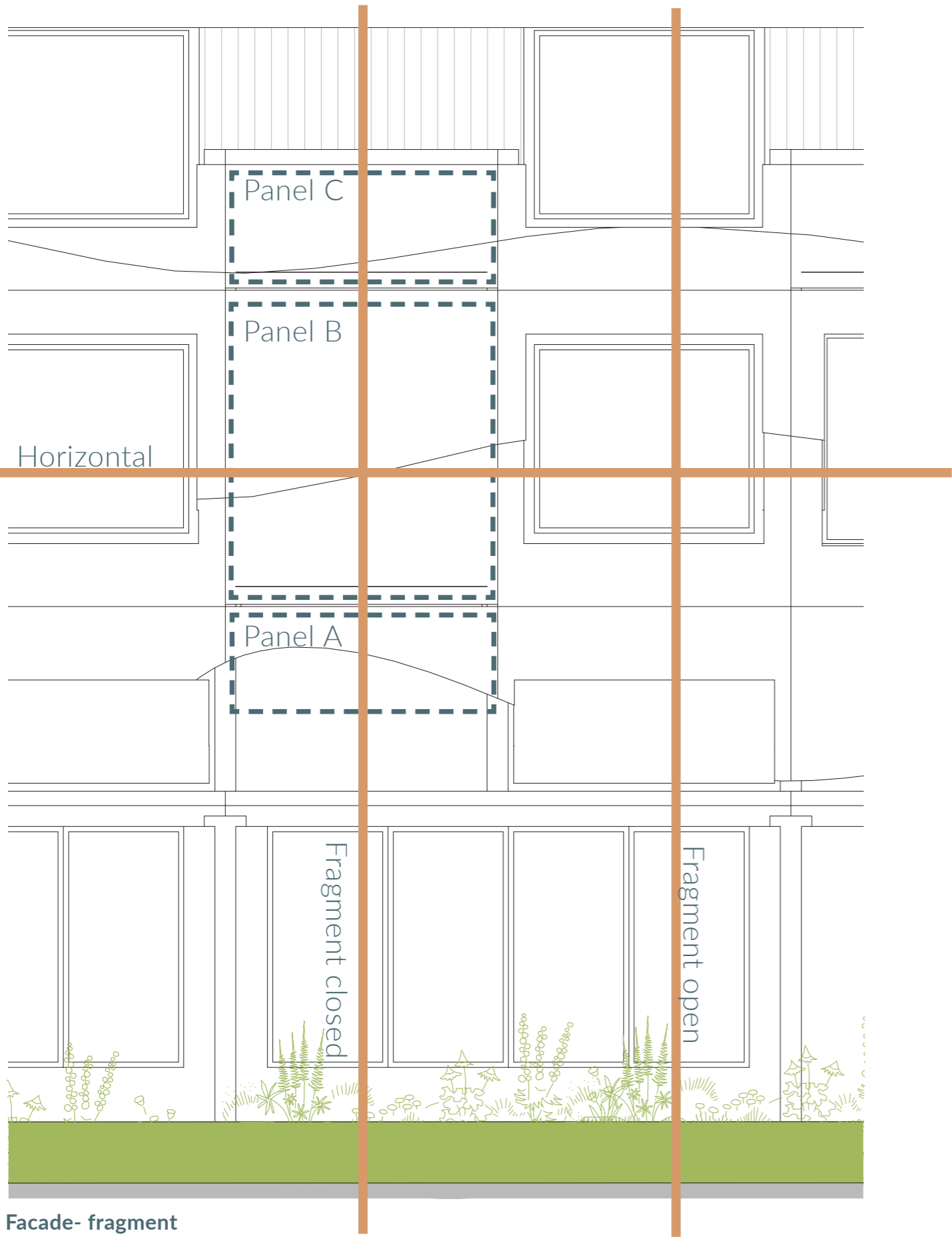
Mating roost

Maternity roost
Male roost

Lifecycle

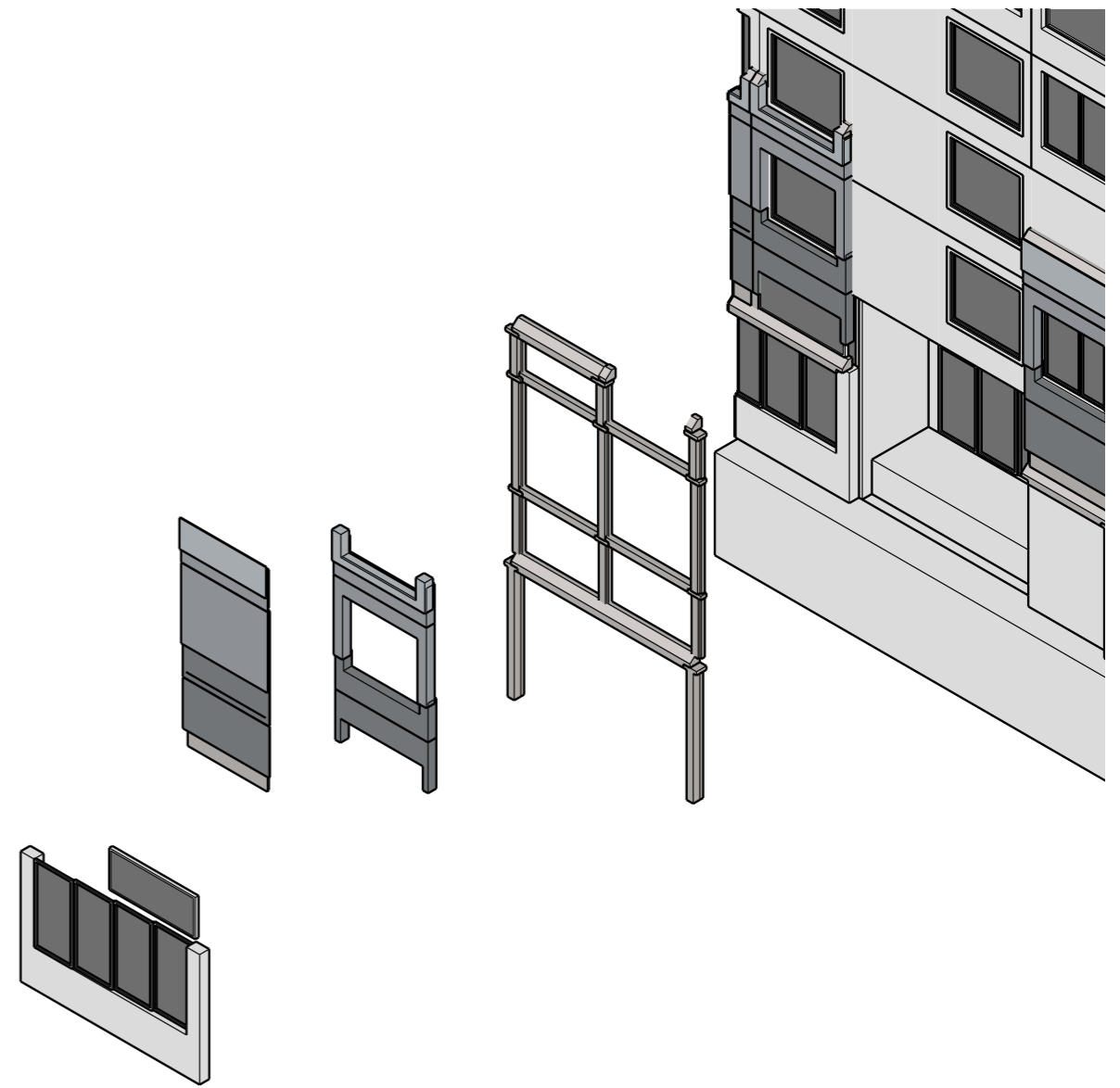
Target: Common pipistelle





Facade- fragment

0 0.5 1 2m



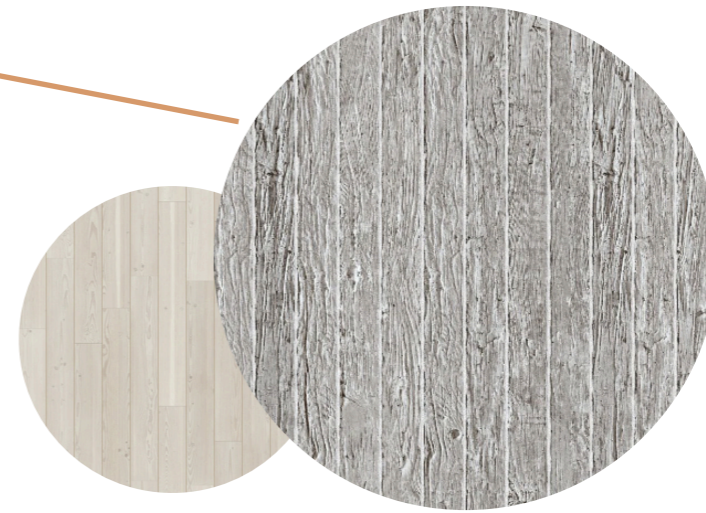
Facade construction
Axonometric



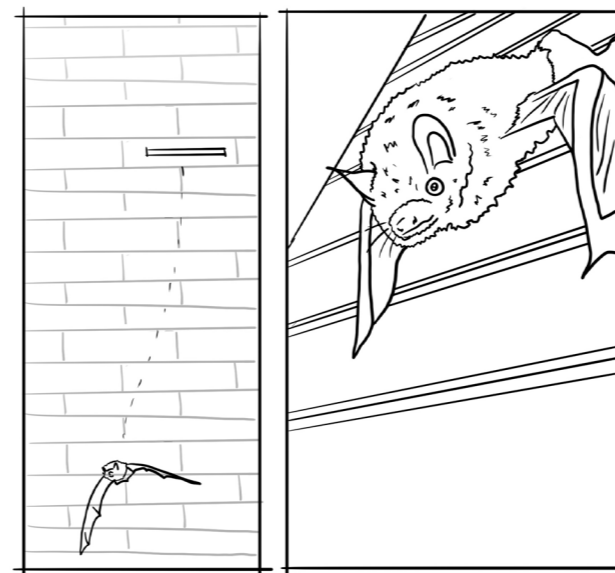
Materialization

0 0.5 1 2m

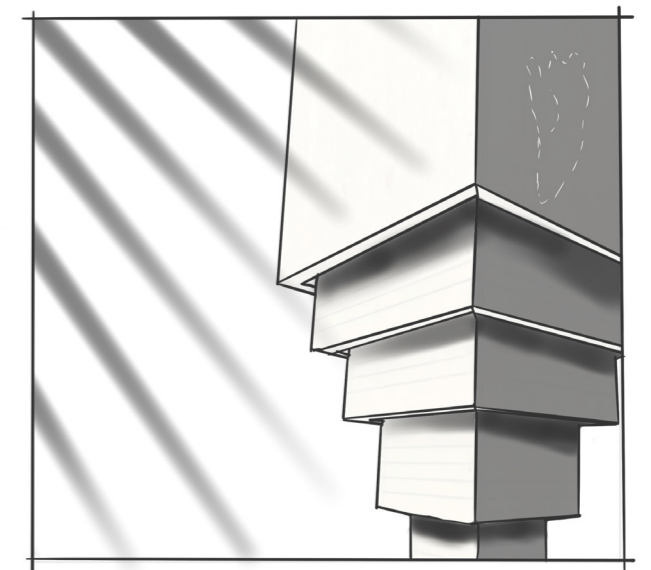
Wood
Weathered
Timber Stack



Wood-Concrete
Panels made out
a mix of 75%
wood fibers
and cement



Rough materials and no
obstacles



Microclimates

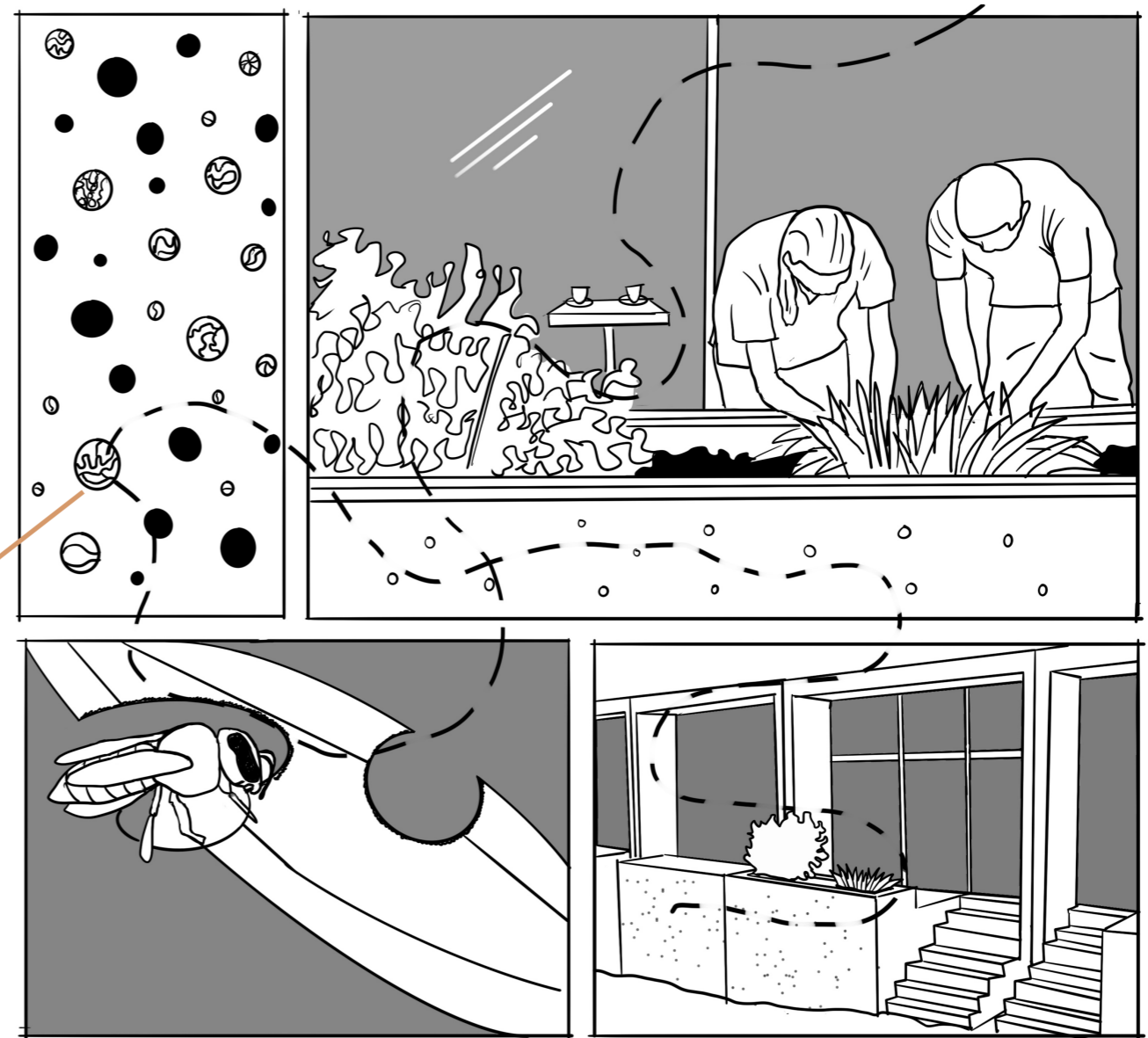


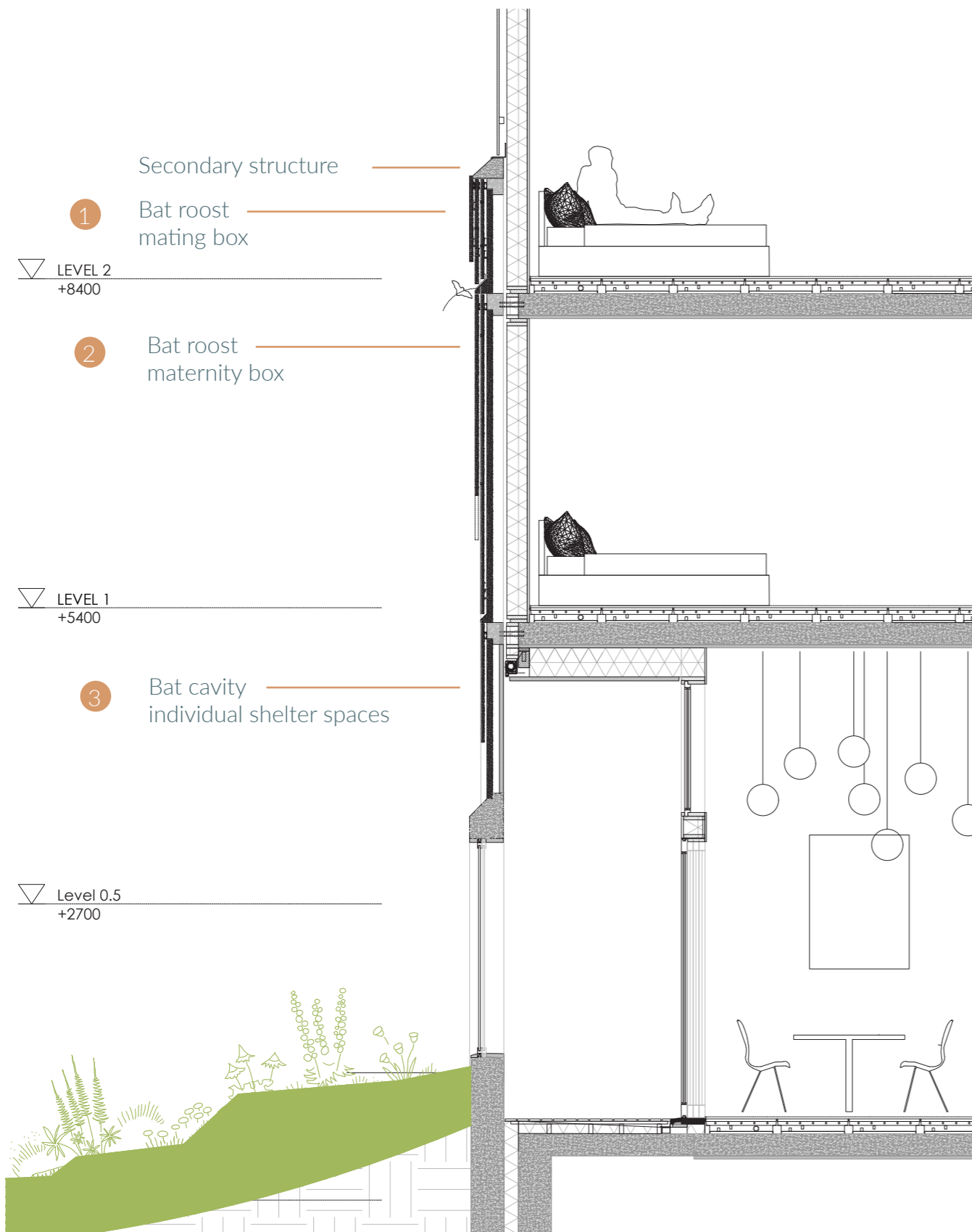
Materialization

0 0.5 1 2m

Biodiversity

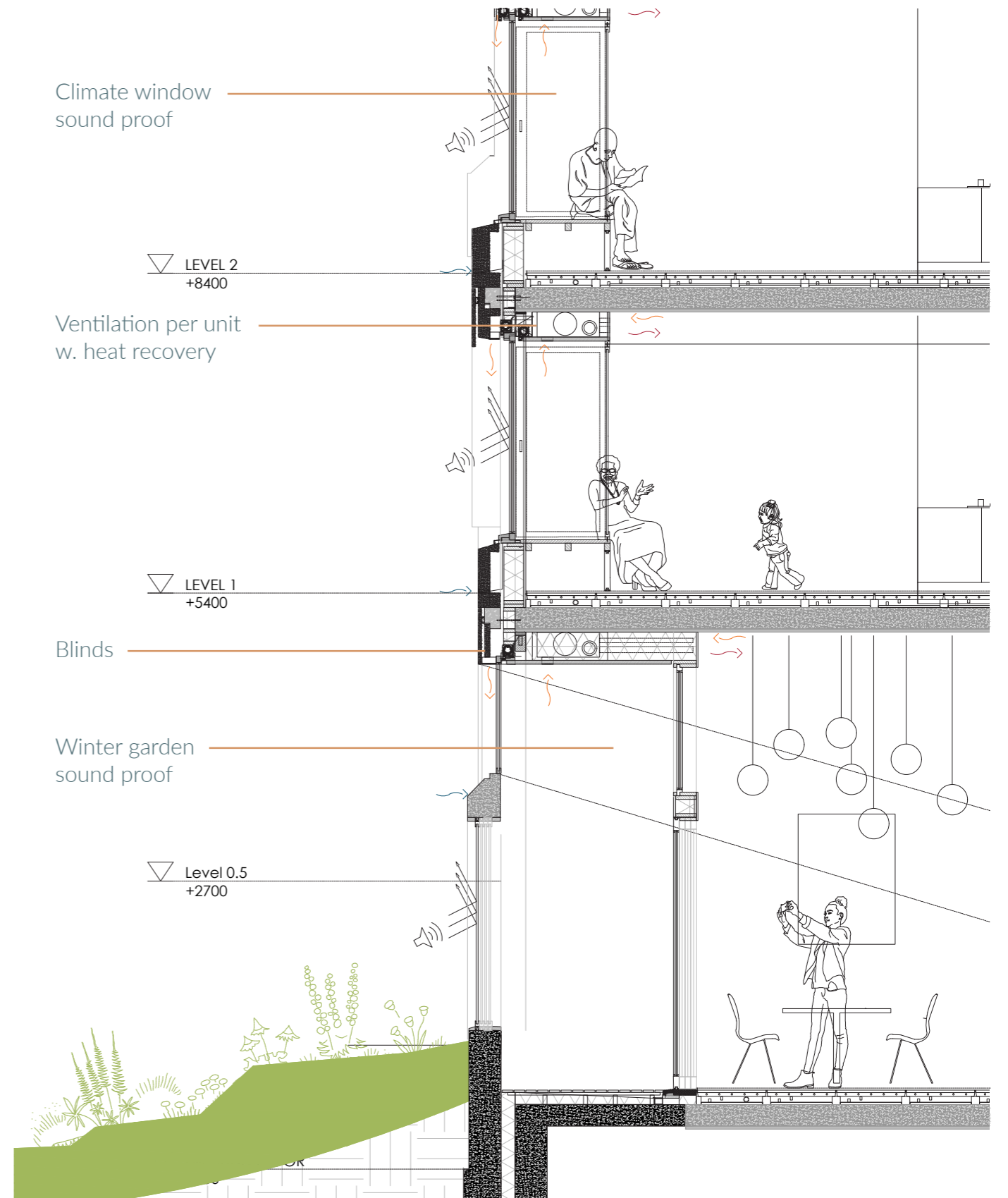
Panels also facilitate shelters for butterflies, to improve the bat's ecosystem.





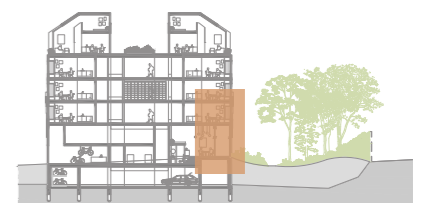
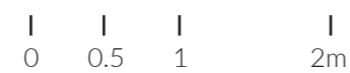
Fragment A

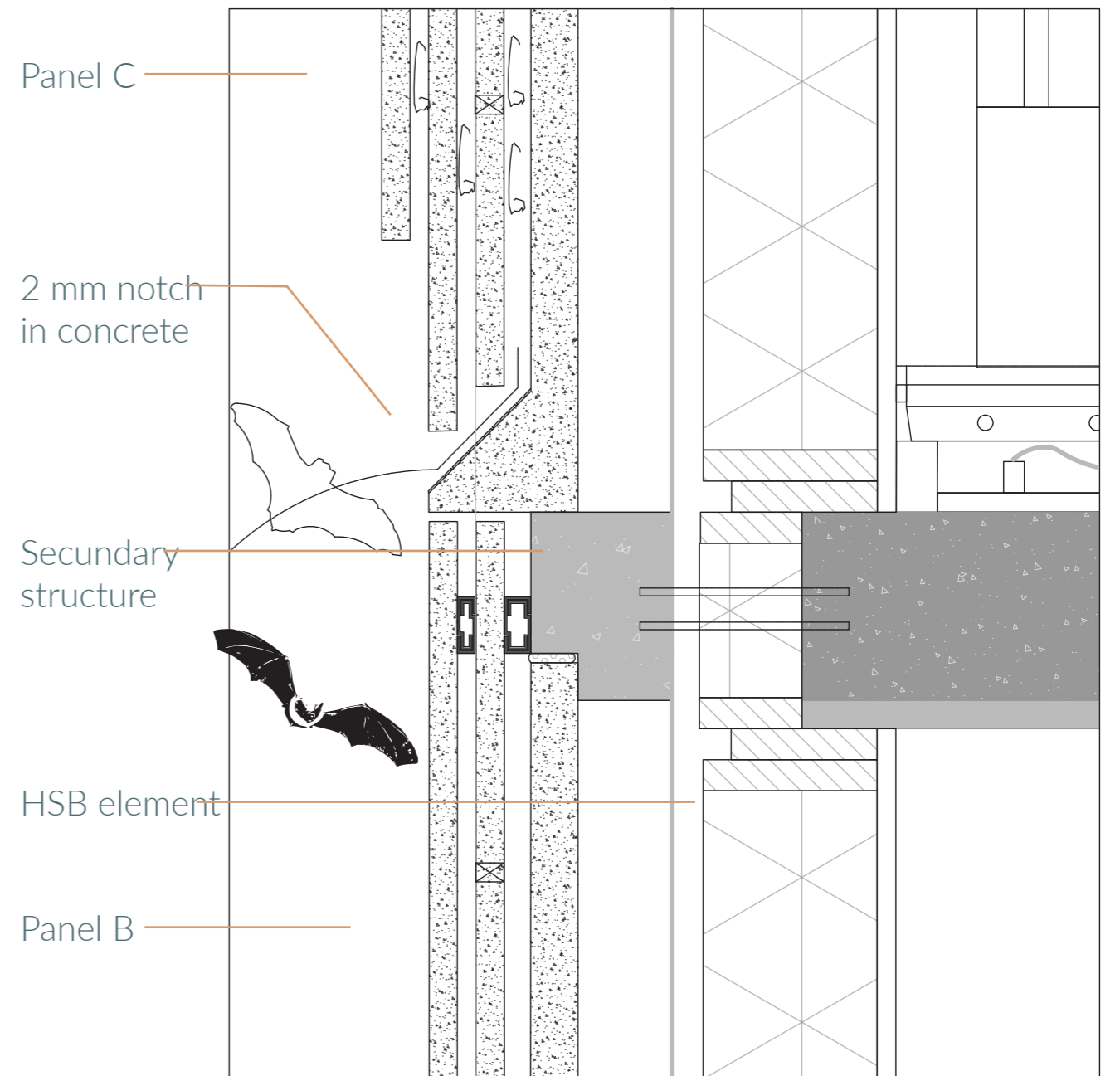
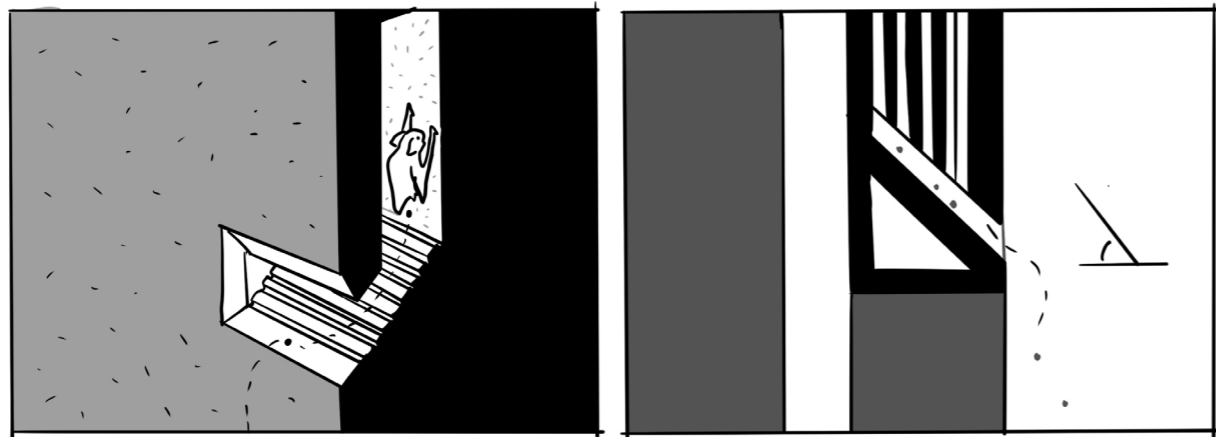
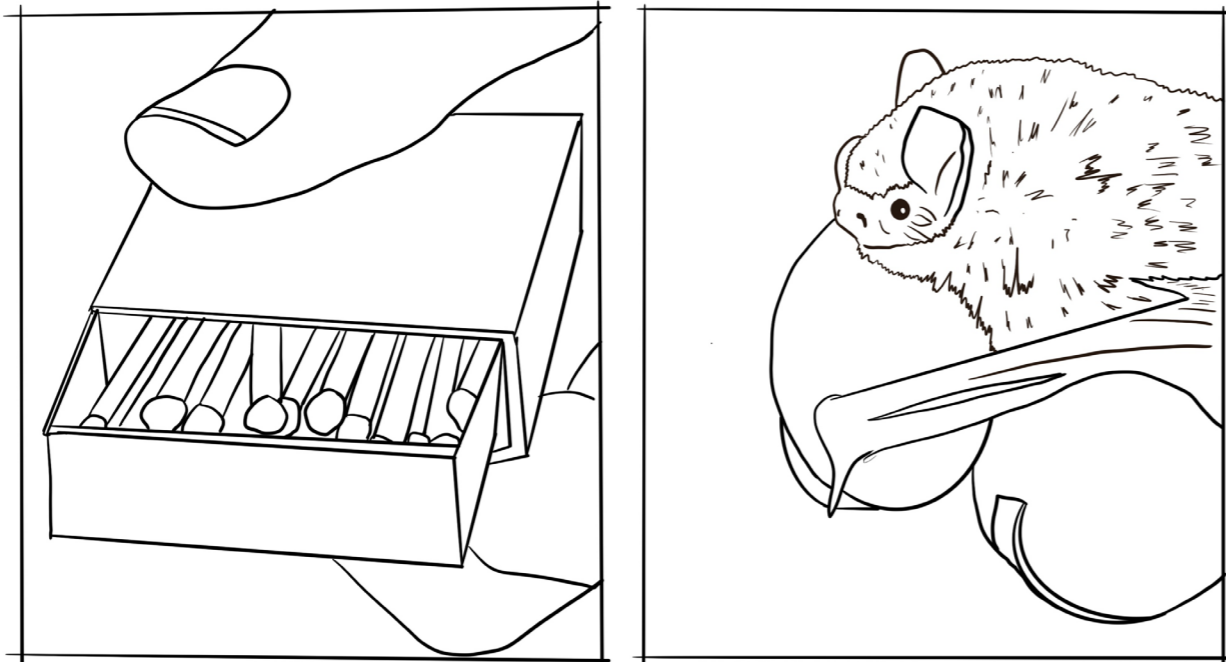
Closed facade



Fragment B

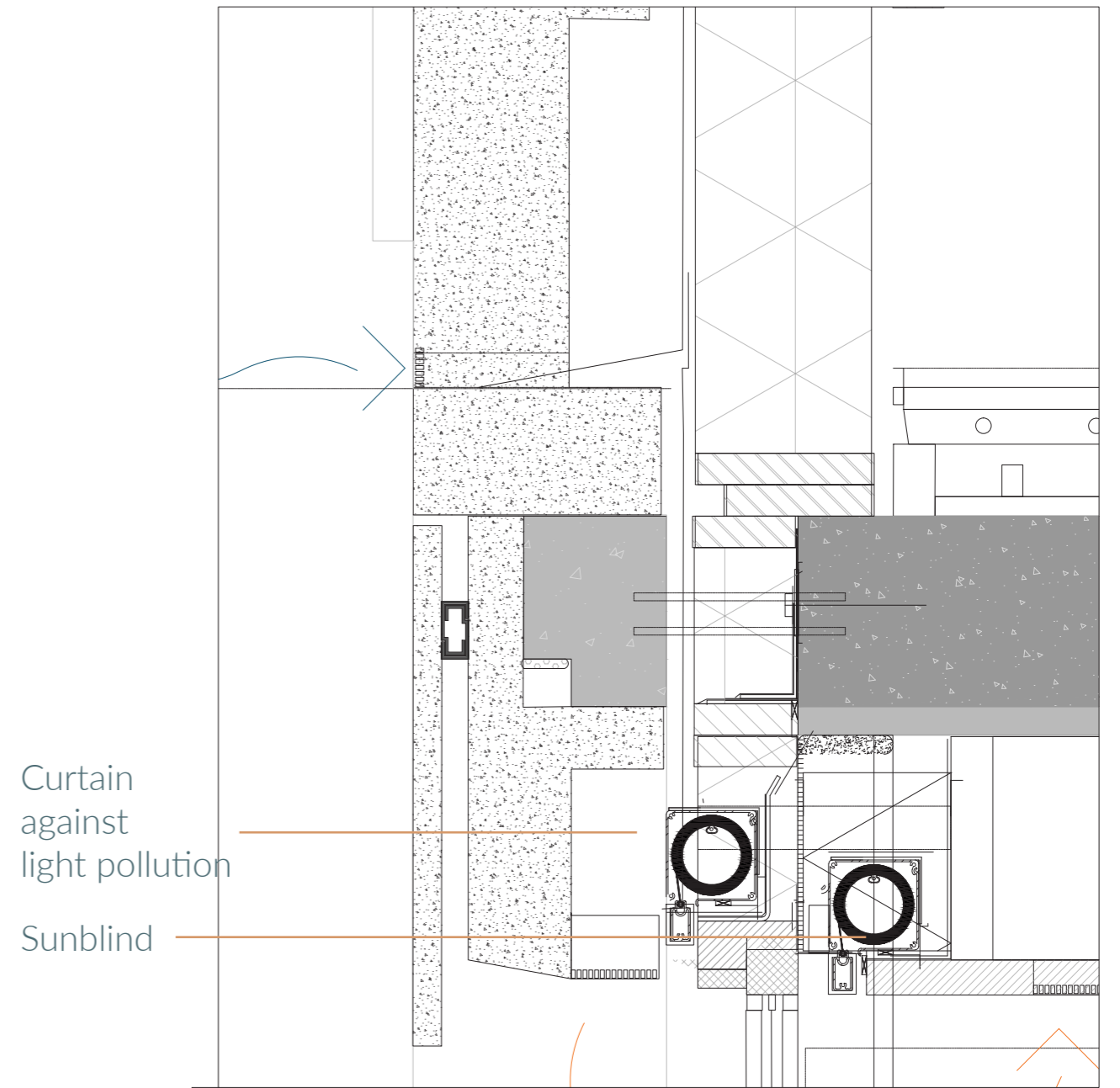
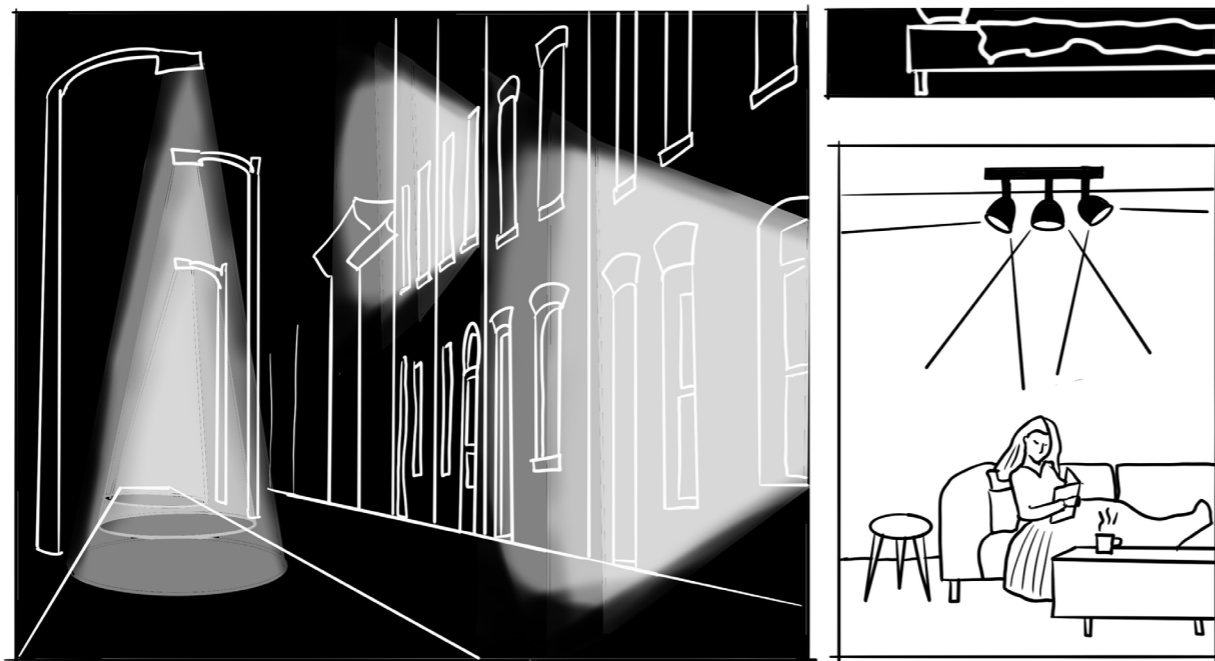
Open Facade





Facade- Details

Scale: 1:5

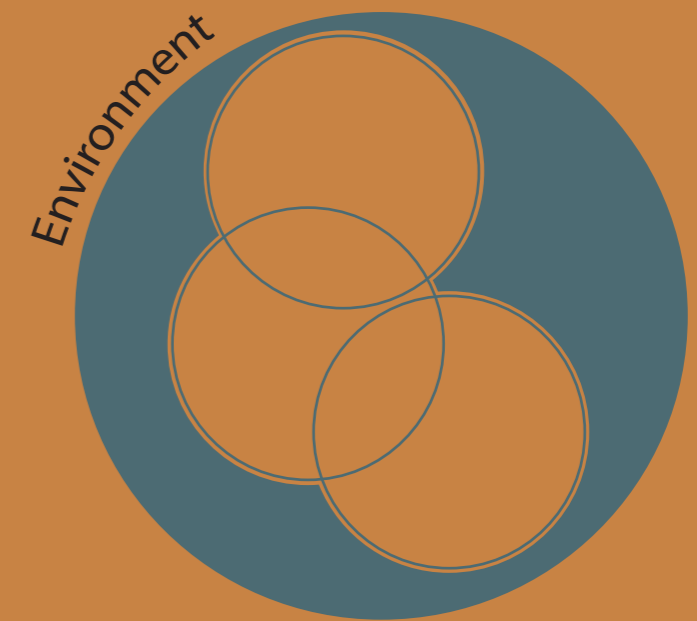
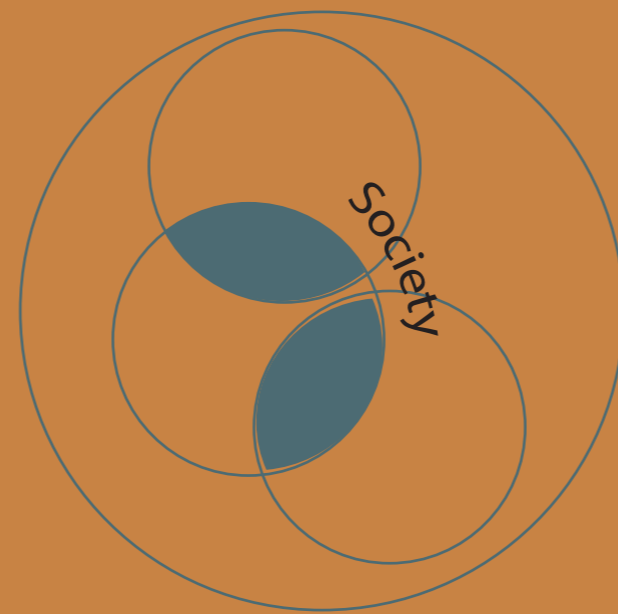
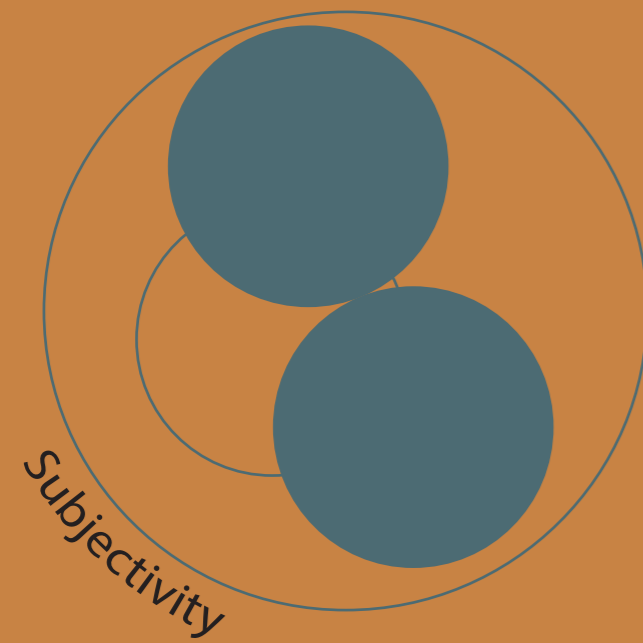


Facade - Details

Scale: 1:5

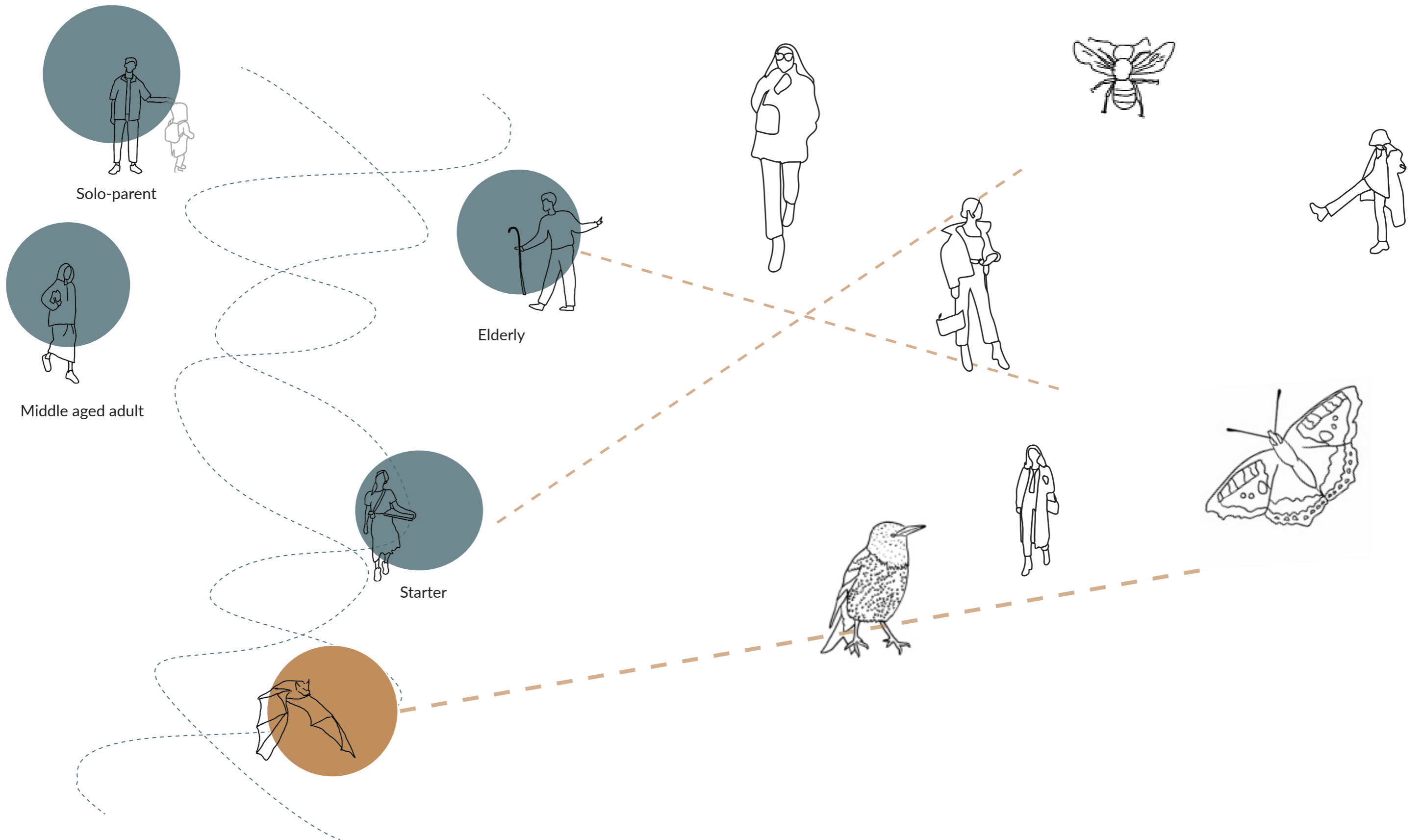
SUMMERY

BASED ON GUATTARI'S THREE ECOLOGIES





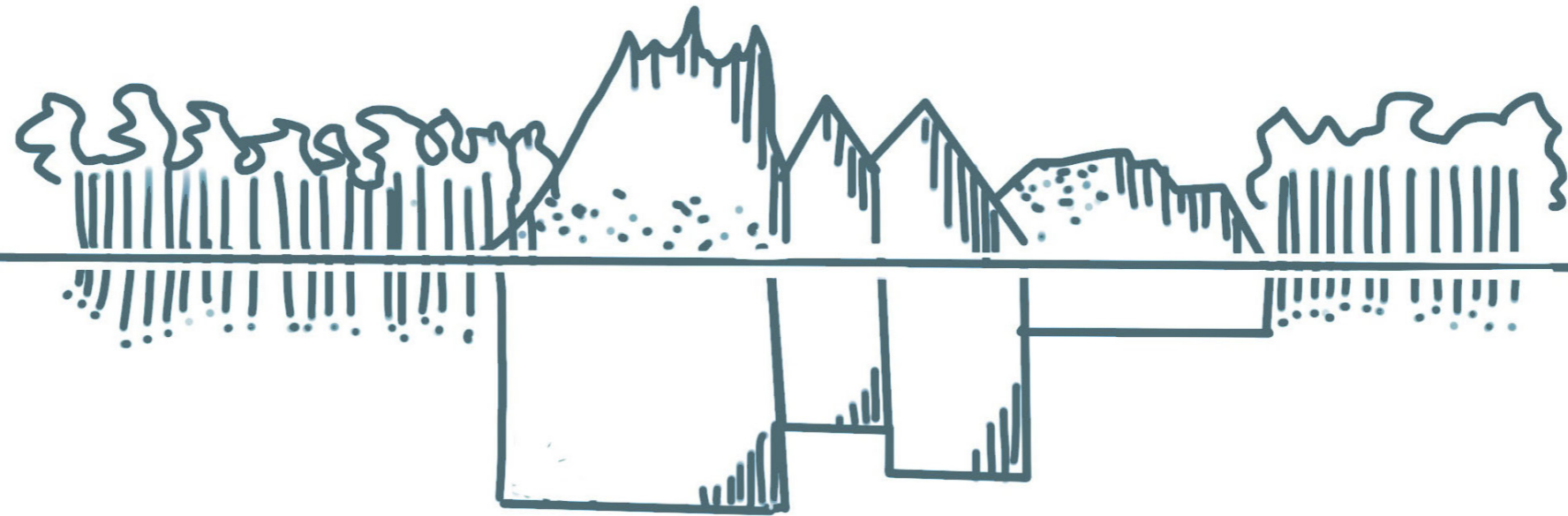
CONTINUE

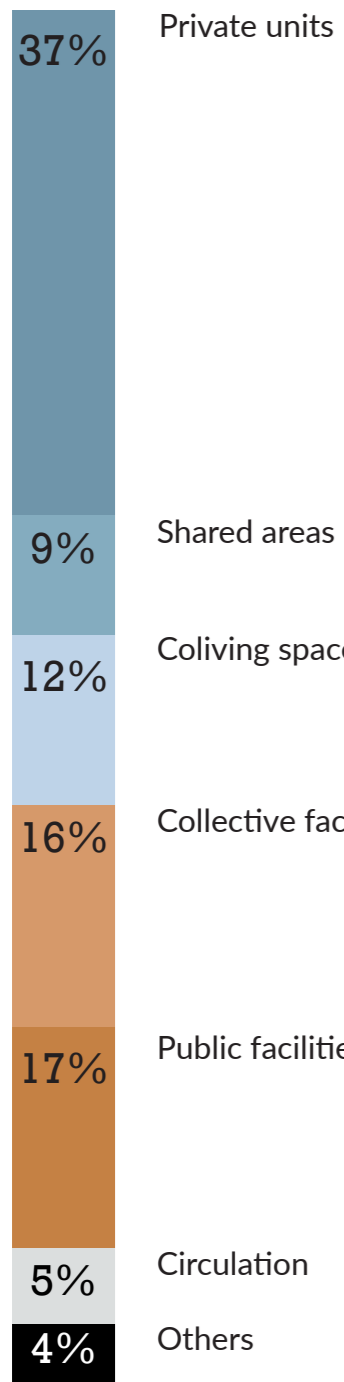


ECOLOGIES OF INCLUSION

TOGETHERNESS

THANK YOU!





Program
Public and Collective
Functions

