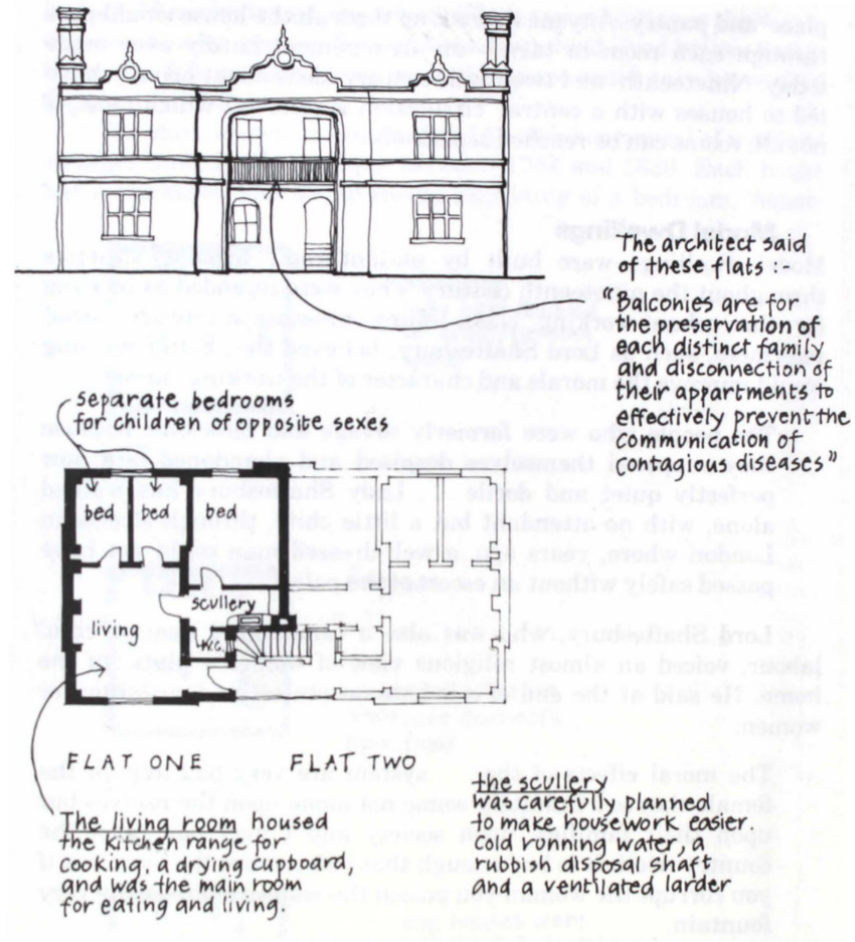


graduation project P5
TU Delft

Gaia

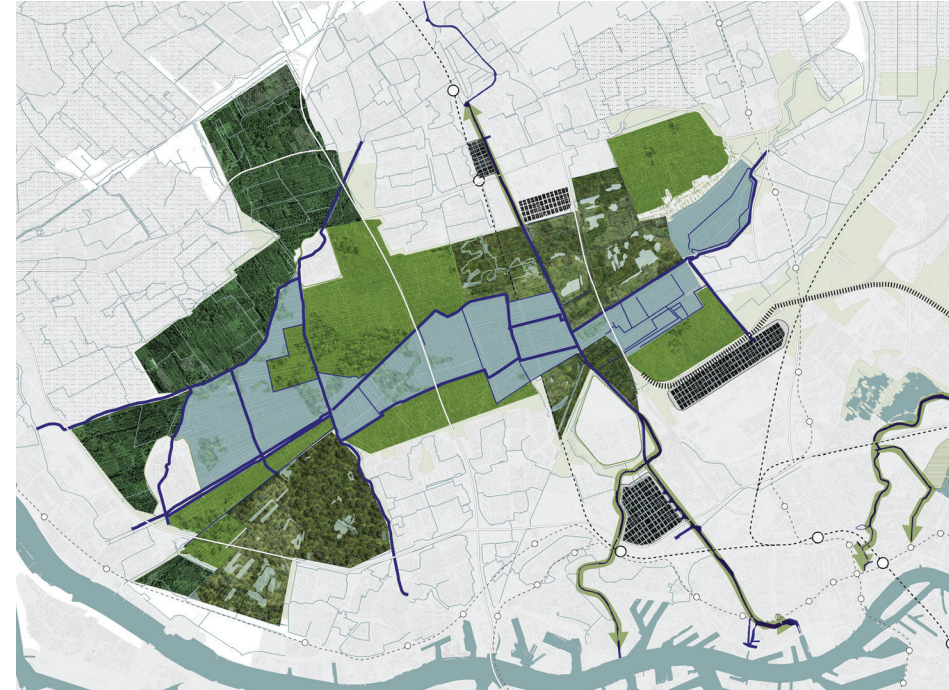


Model Dwelling

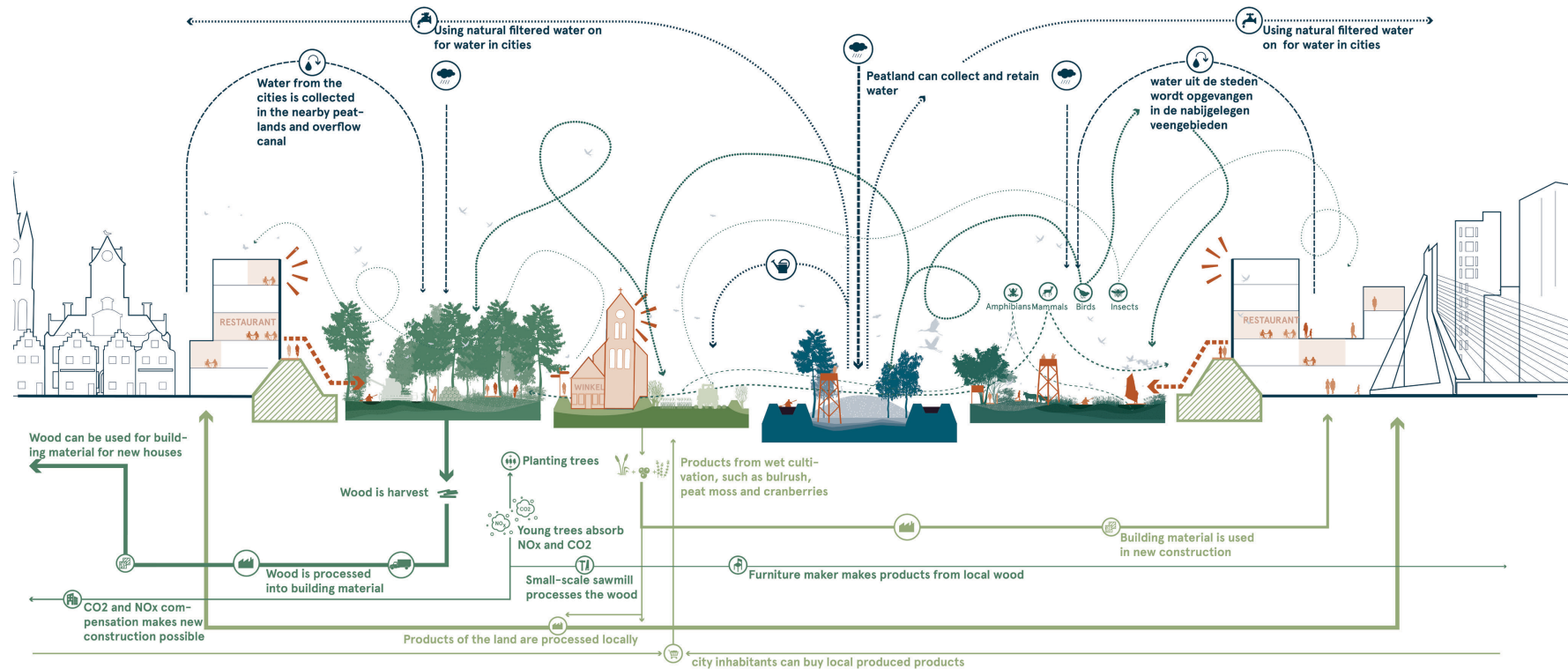
Adapting to Changing Family Compositions and Lifestyles.



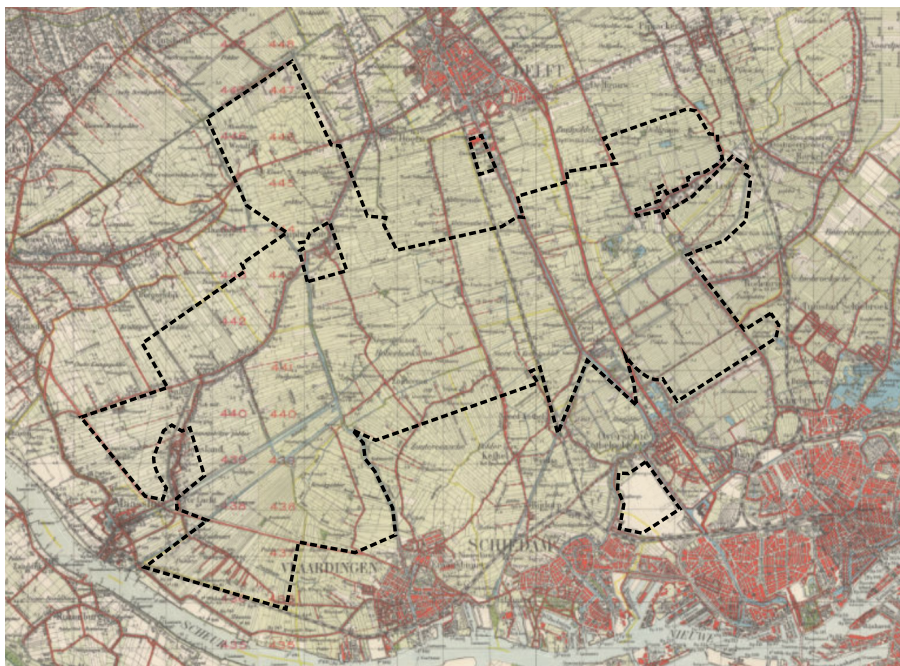
NATIONAL PRODUCTIVE
PARK DELFTLAND



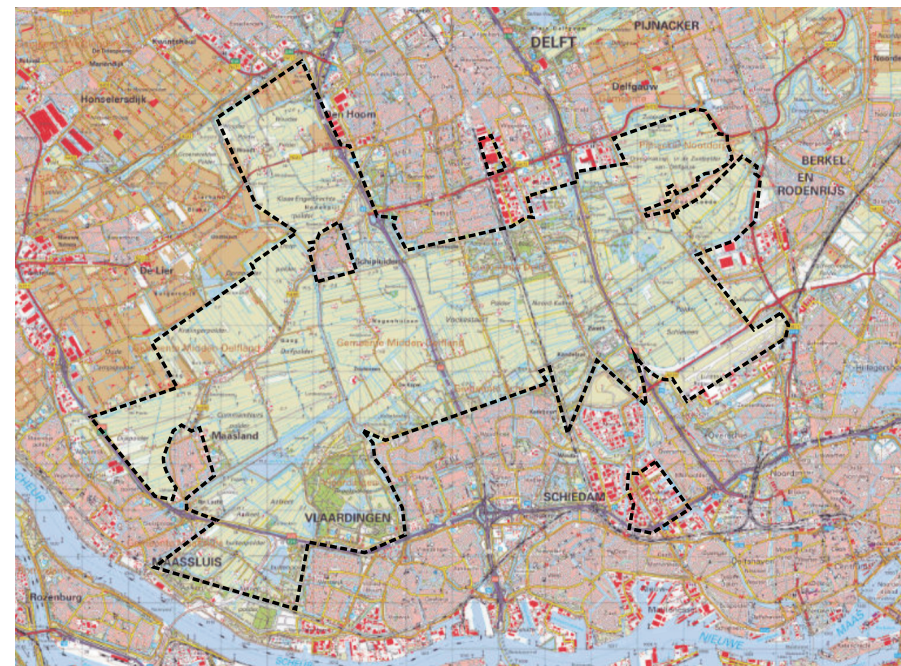
National productive park Delfland



National productive park Delfland

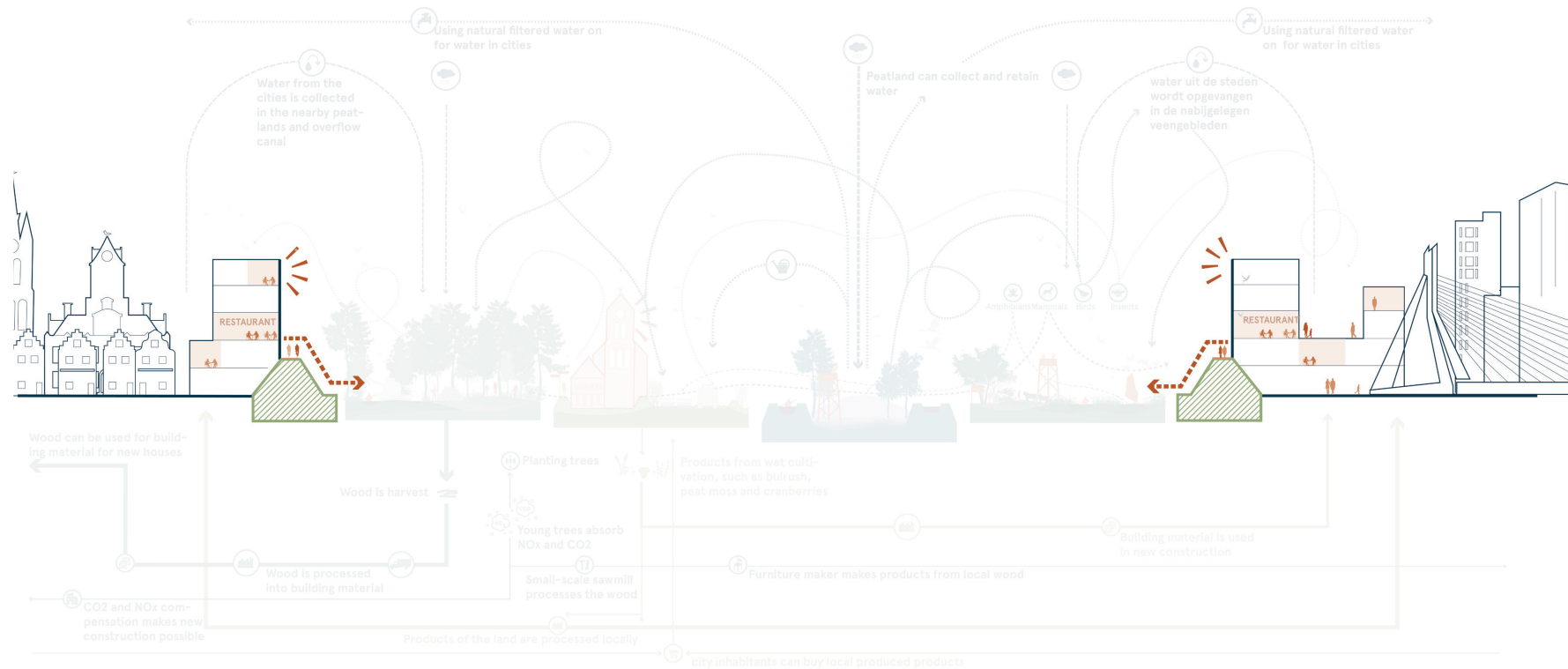


1950



2020

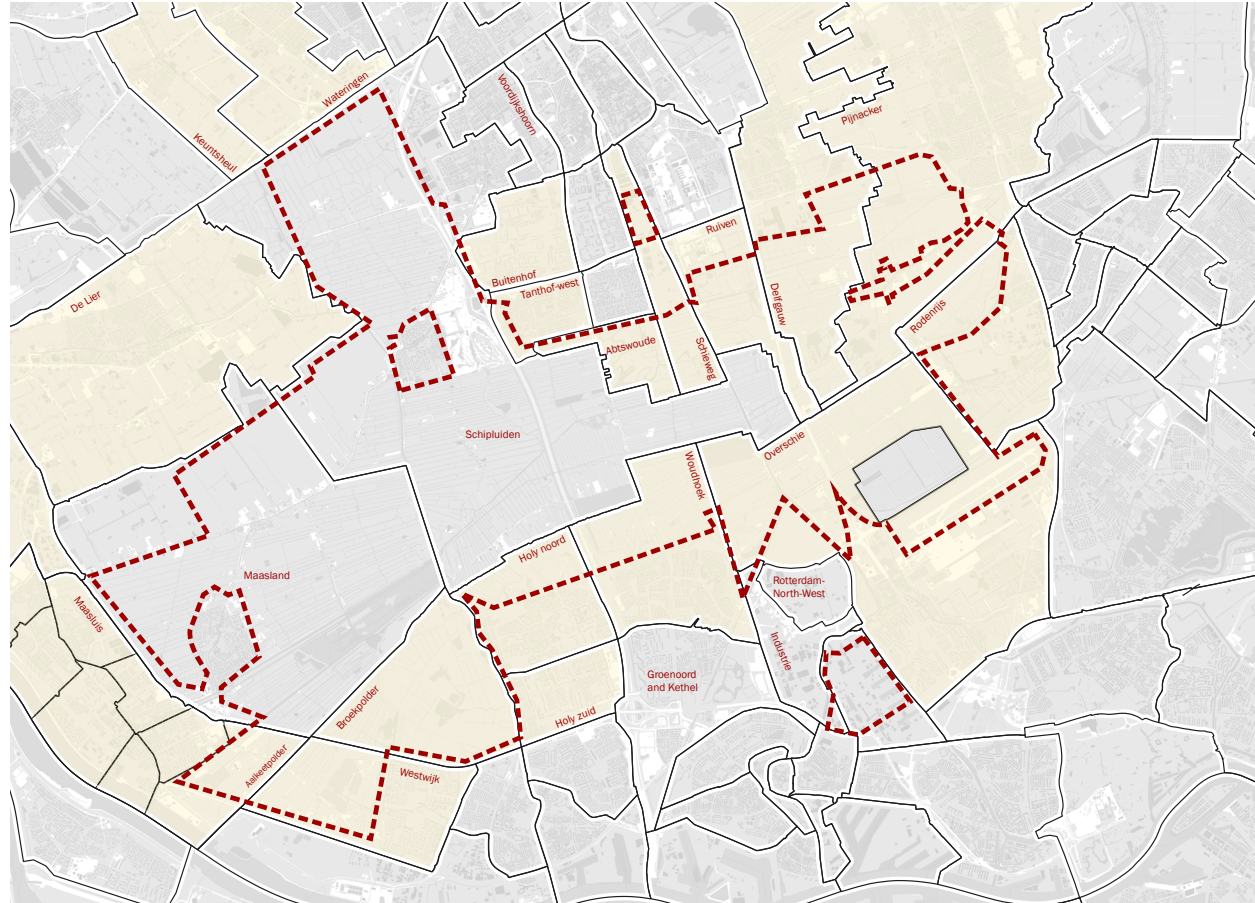
Expansion of Midden-Delfland



Houses



Houses



Neighbouring areas



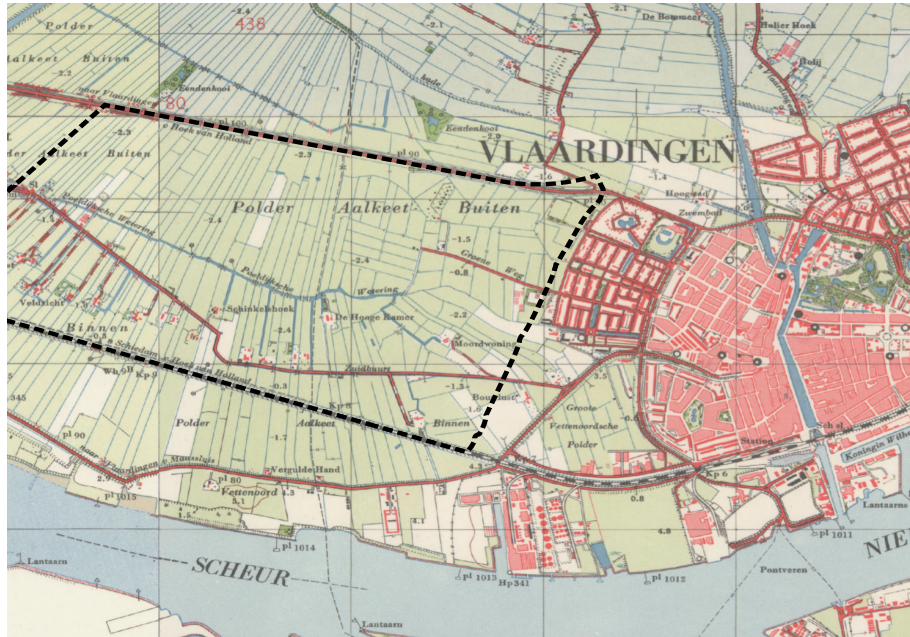
Mobility



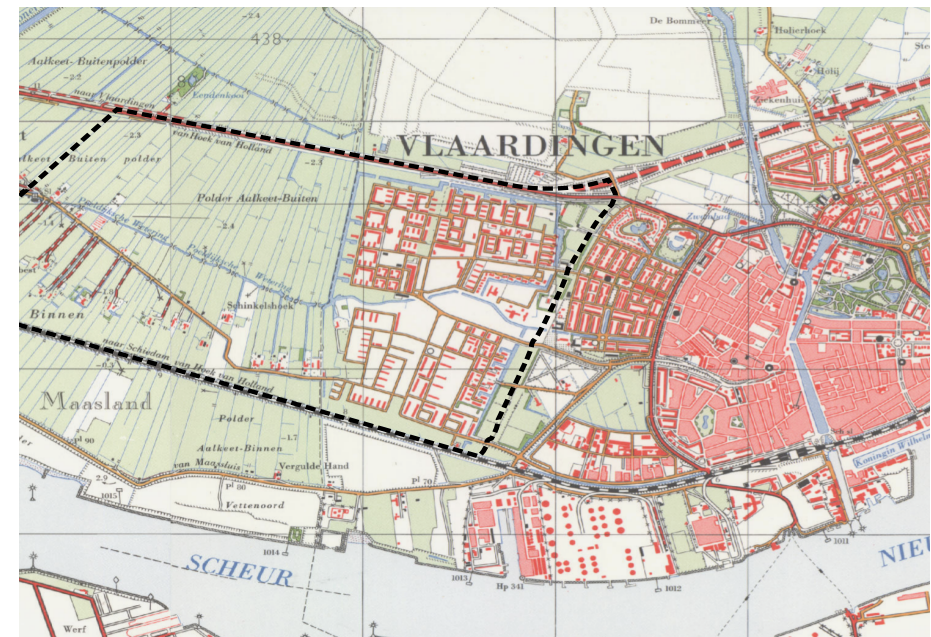
Westwijk Vlaardingen



Westwijk Vlaardingen

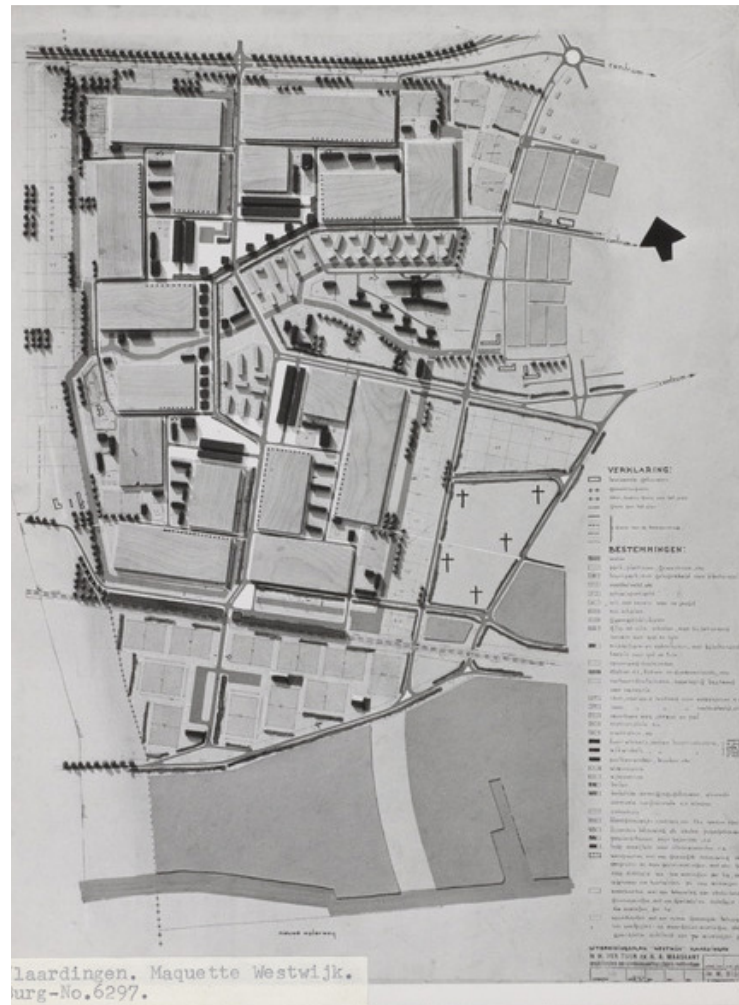


1950

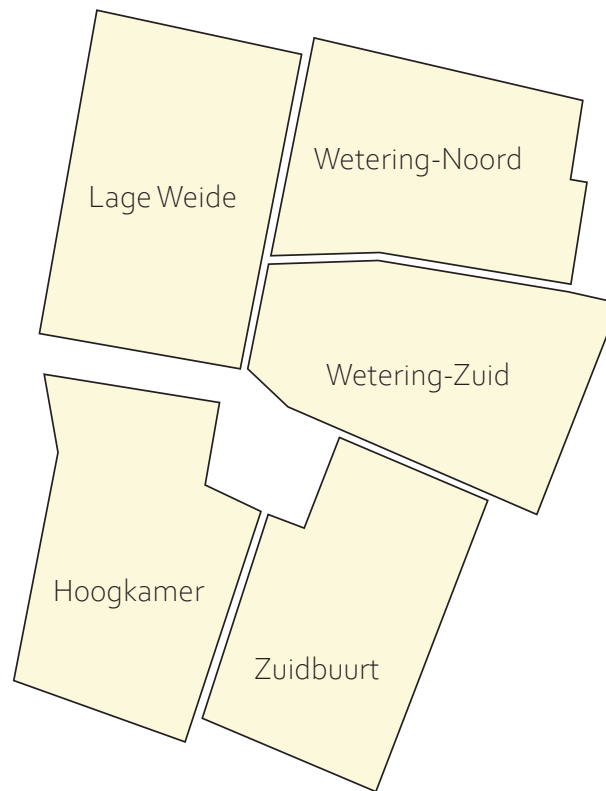


1960

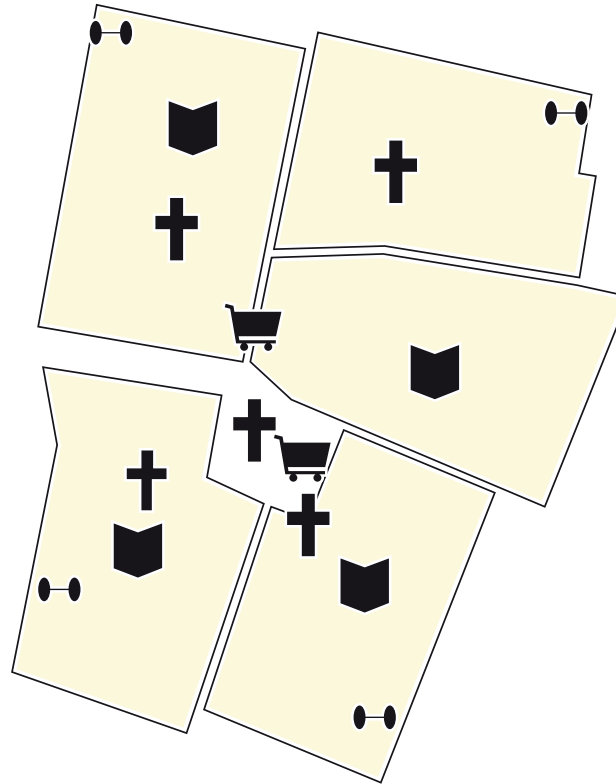
Post-war neighbourhood



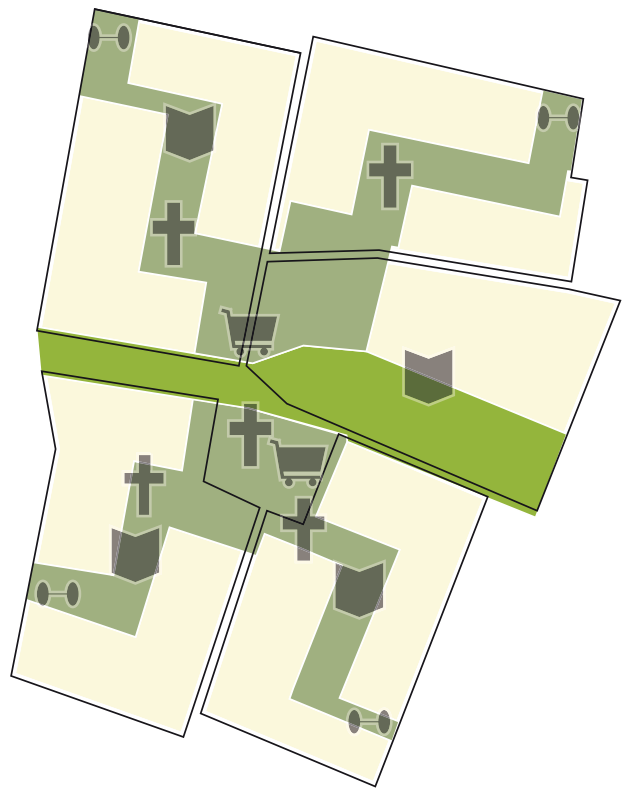
Master plan designed by Maaskant and Van Tijen



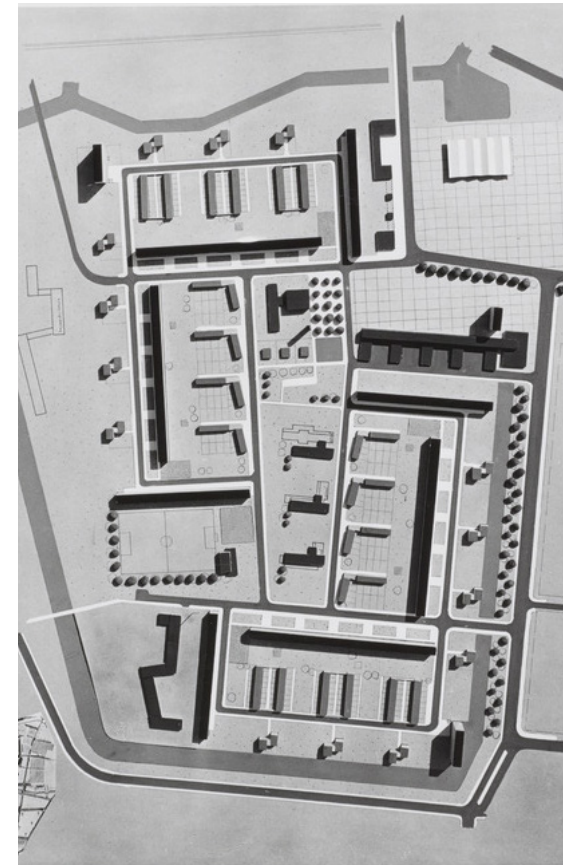
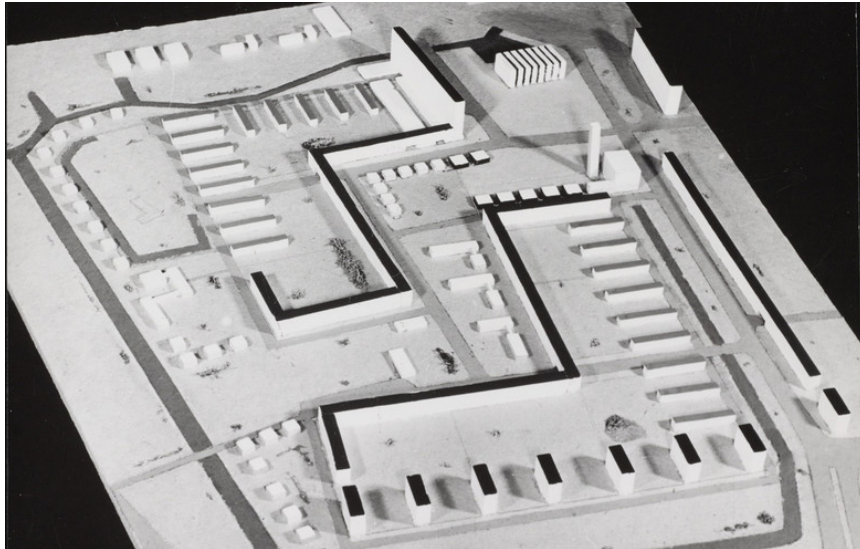
‘Buurten’



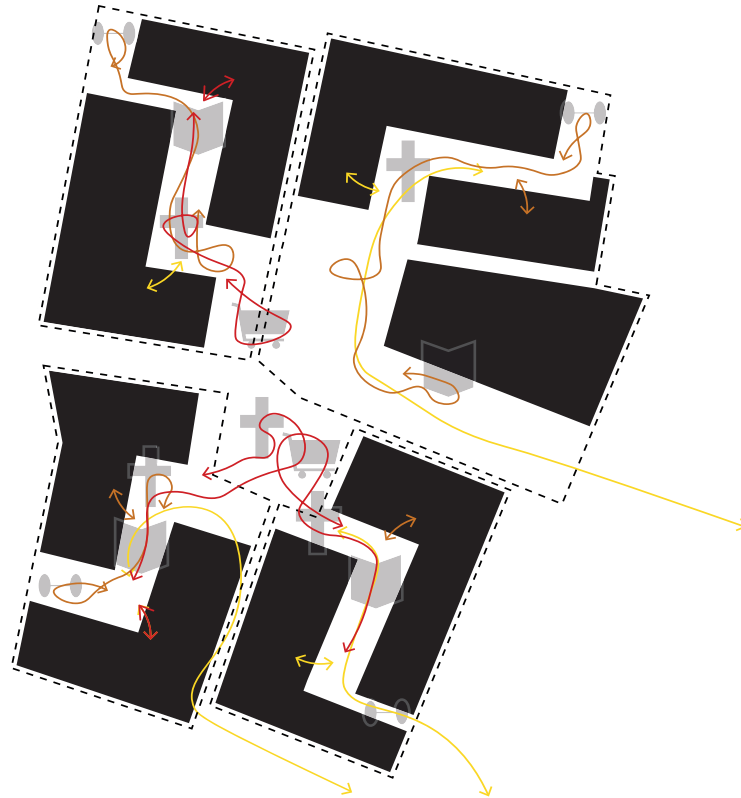
Pillarisation of facilities



Green structure



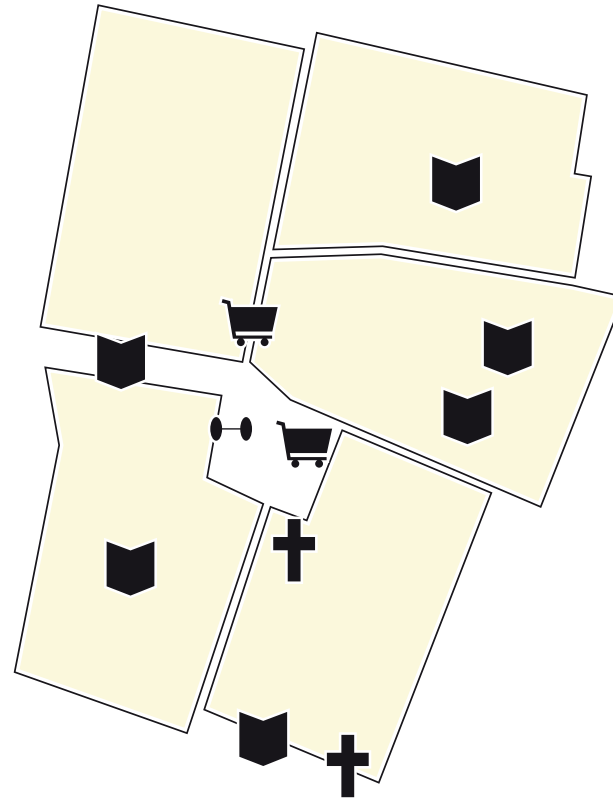
Green structure



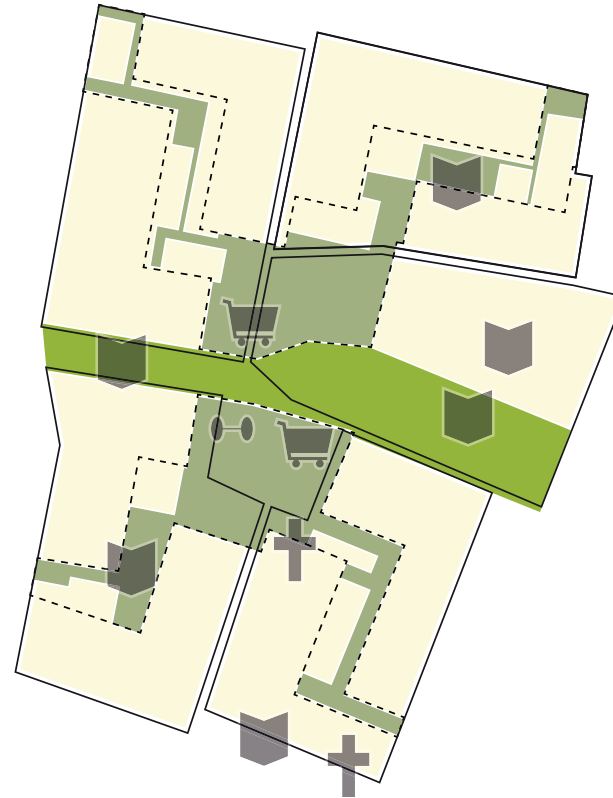
Intended user patterns



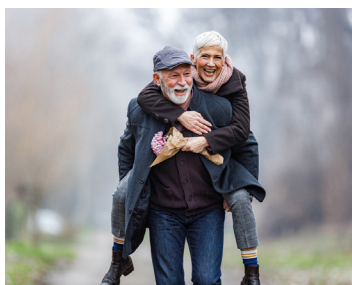
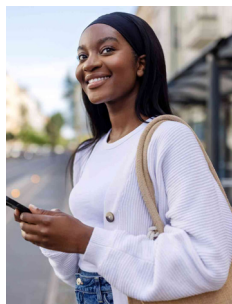
Intended users



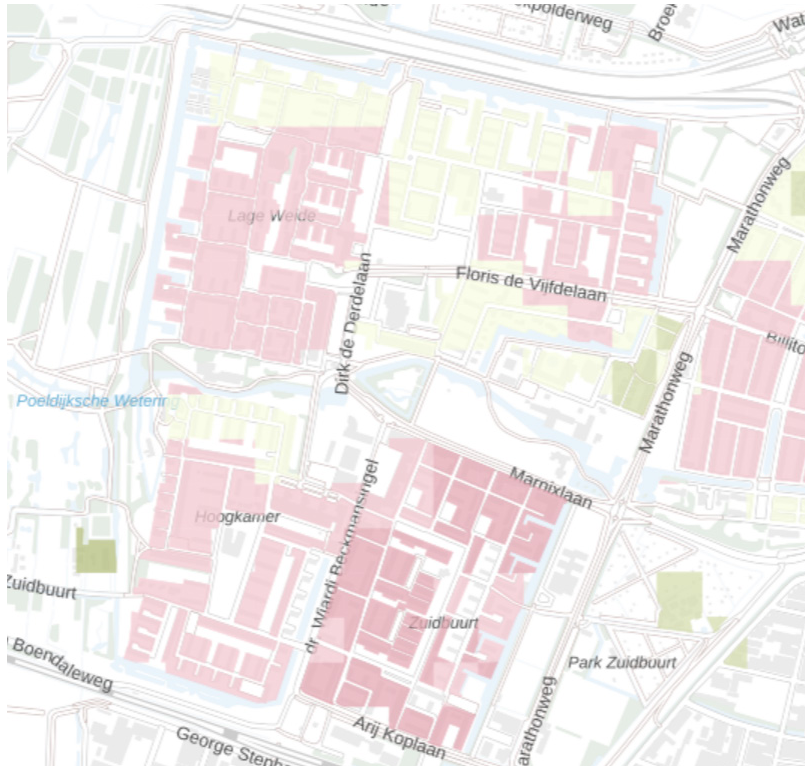
Spread out facilities



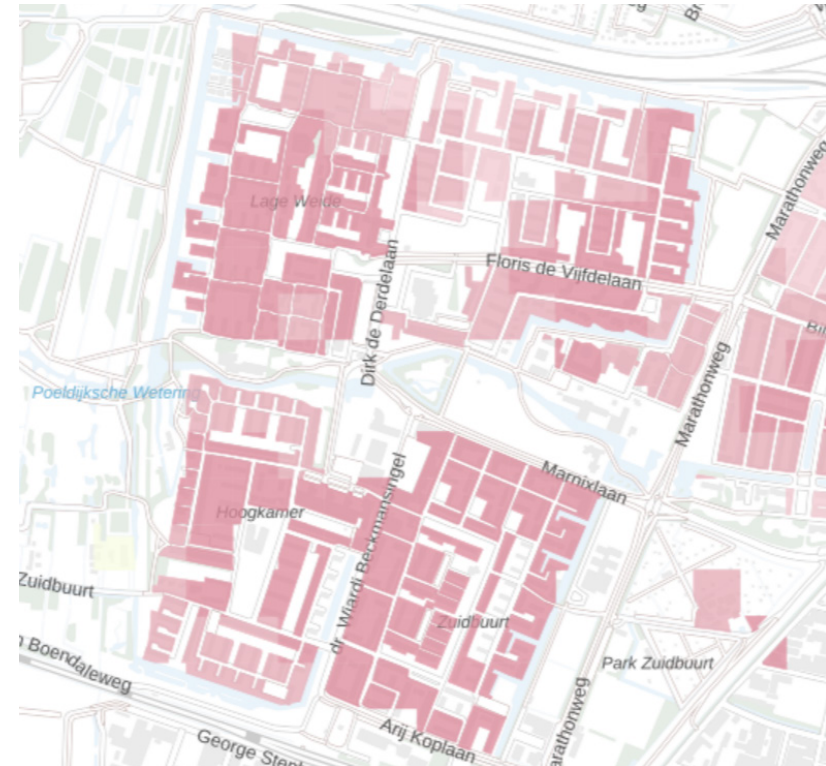
Green structure obscured



Other users



social cohesion



nuisance and insecurity

Liveability



Hoogkamer





-  Houses
-  Public facilities

Arm in 1960



Public facilities



-  Houses
-  Public facilities

Arm in 2005



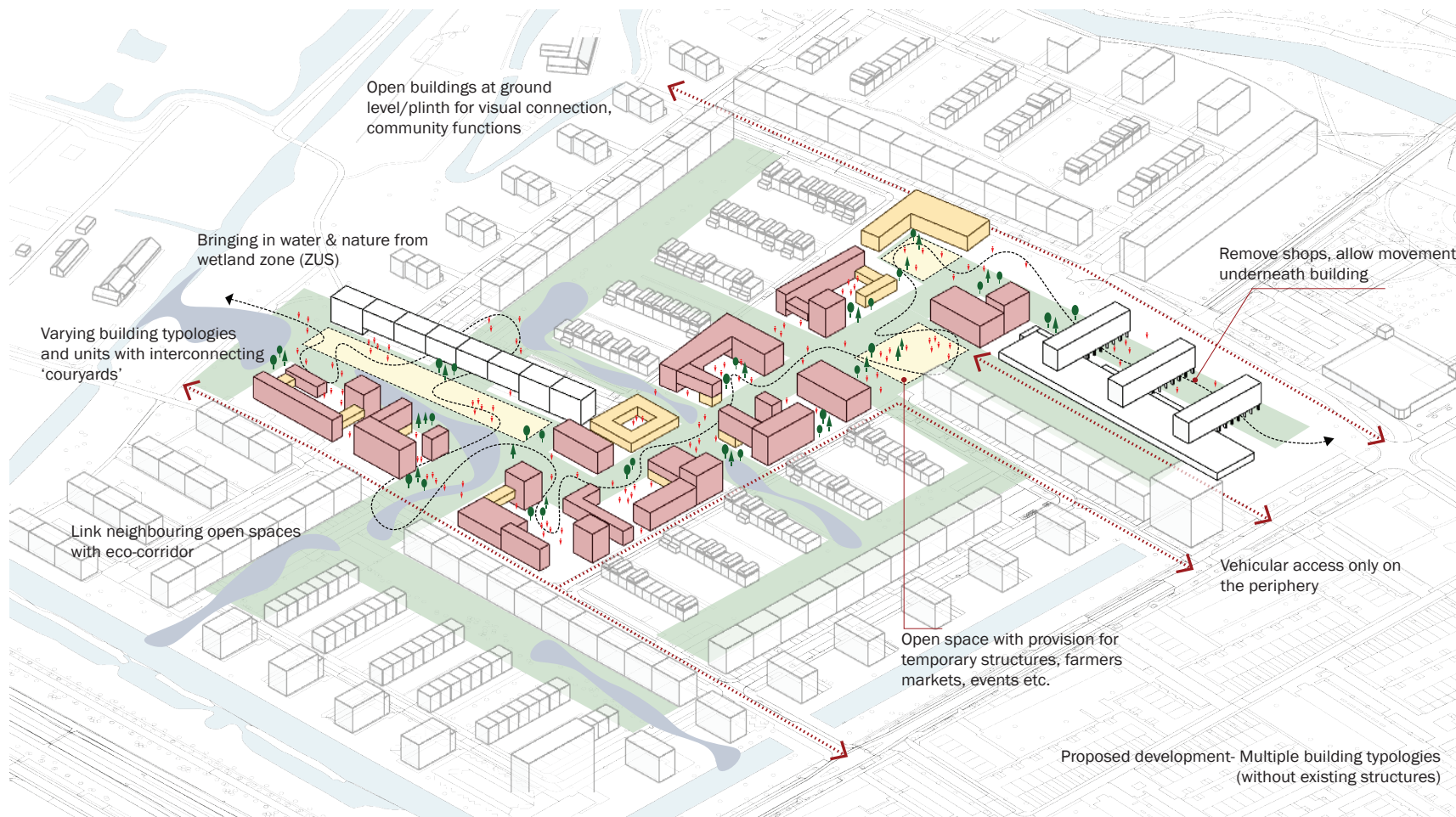
Houses



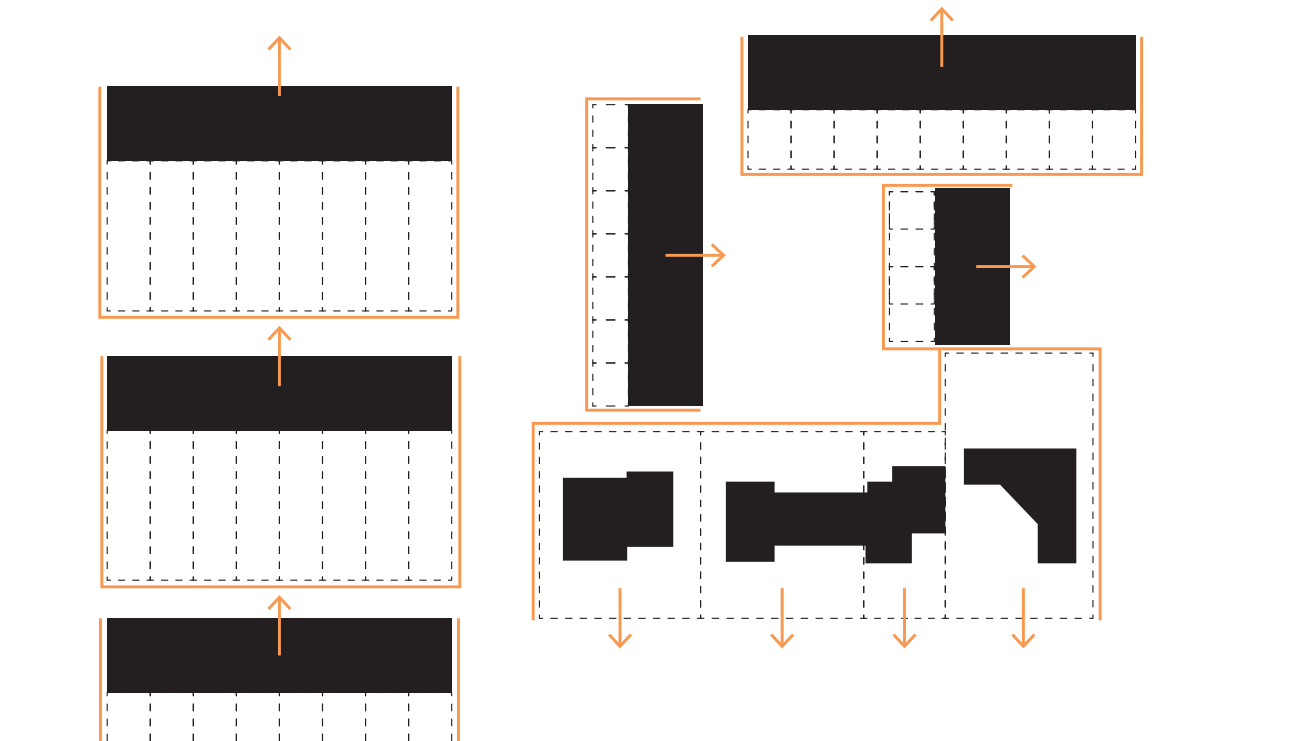
2020



Houses



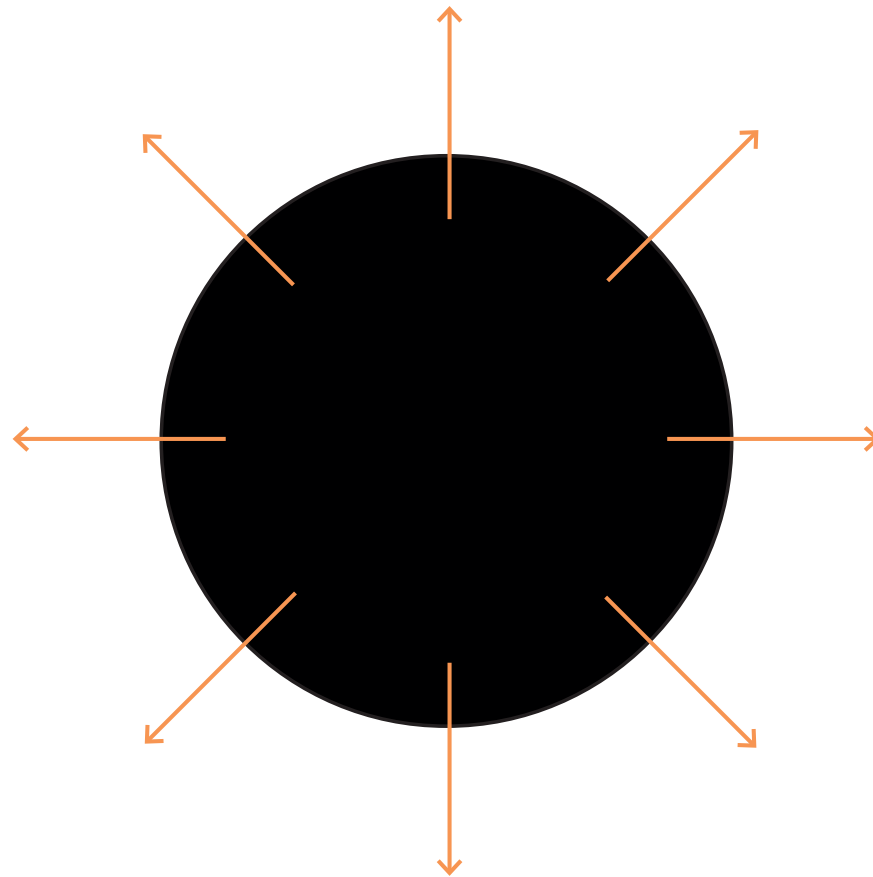
Vision



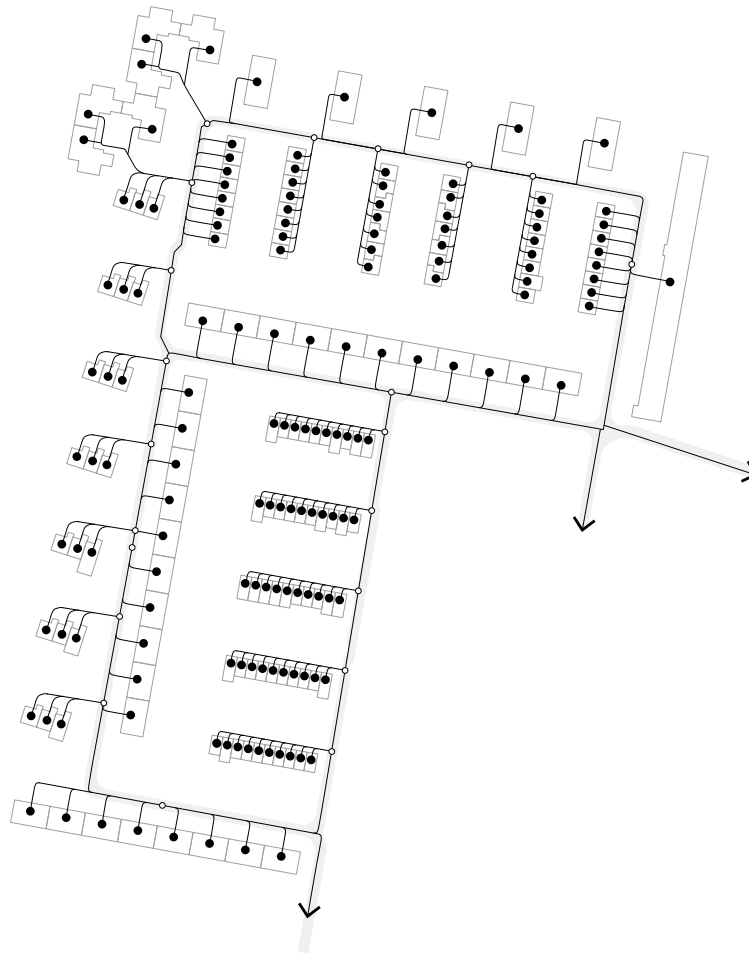
Orientation



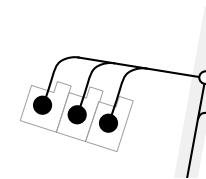
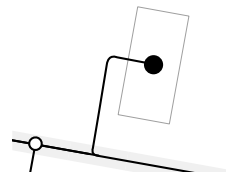
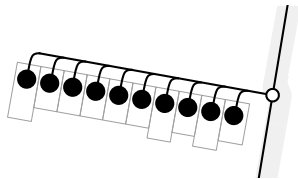
Orientation



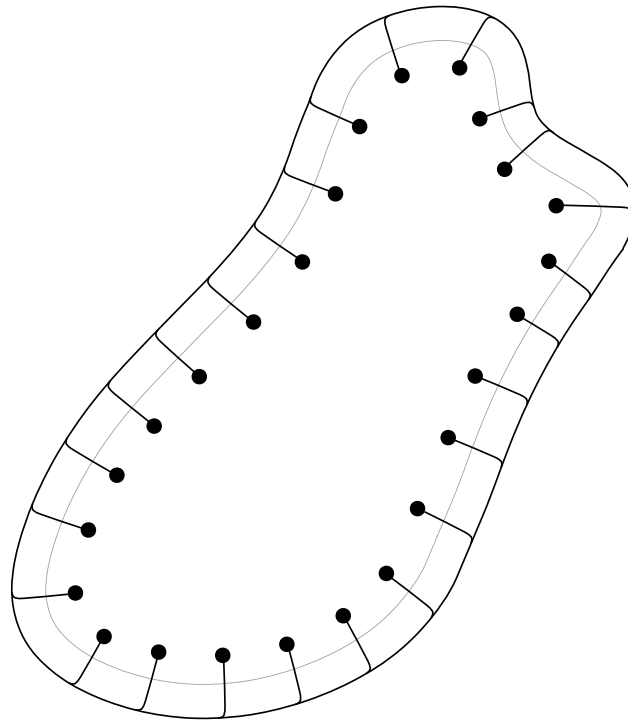
Orientation



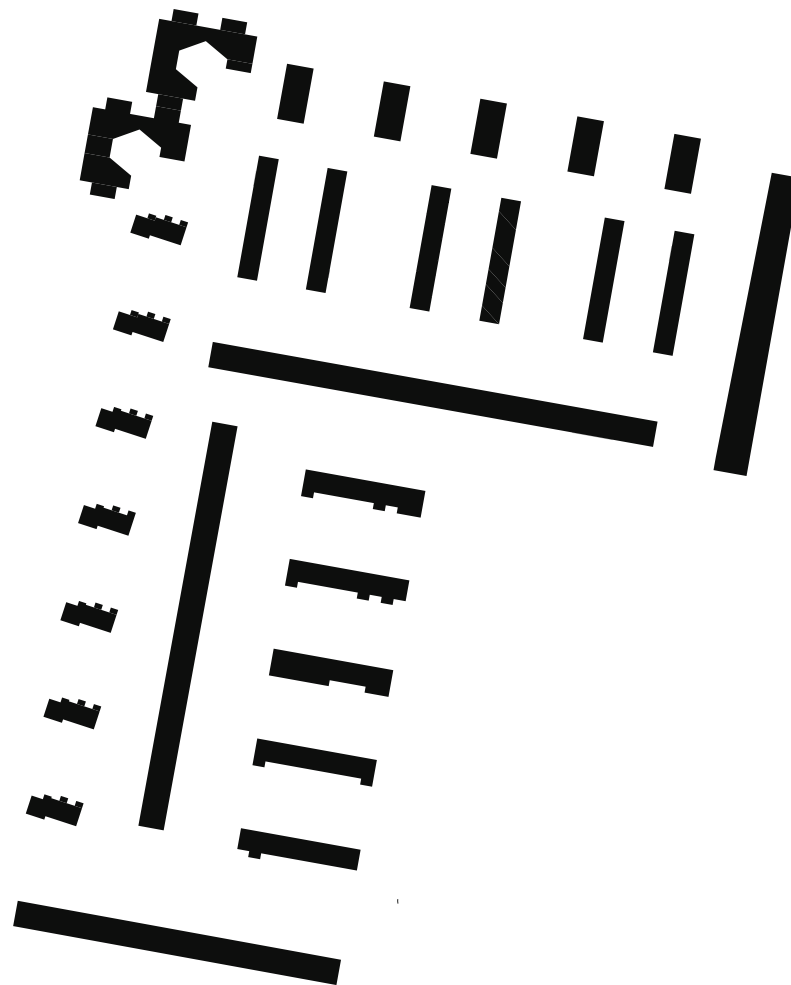
Discriptive space



Descriptive space



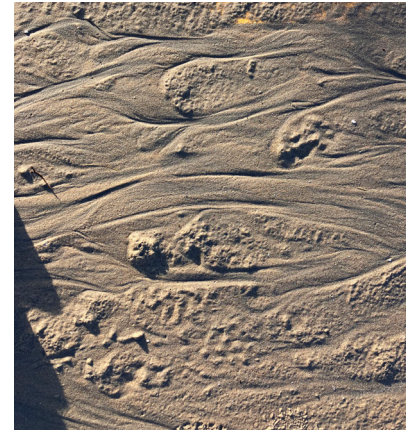
Non-descriptive space



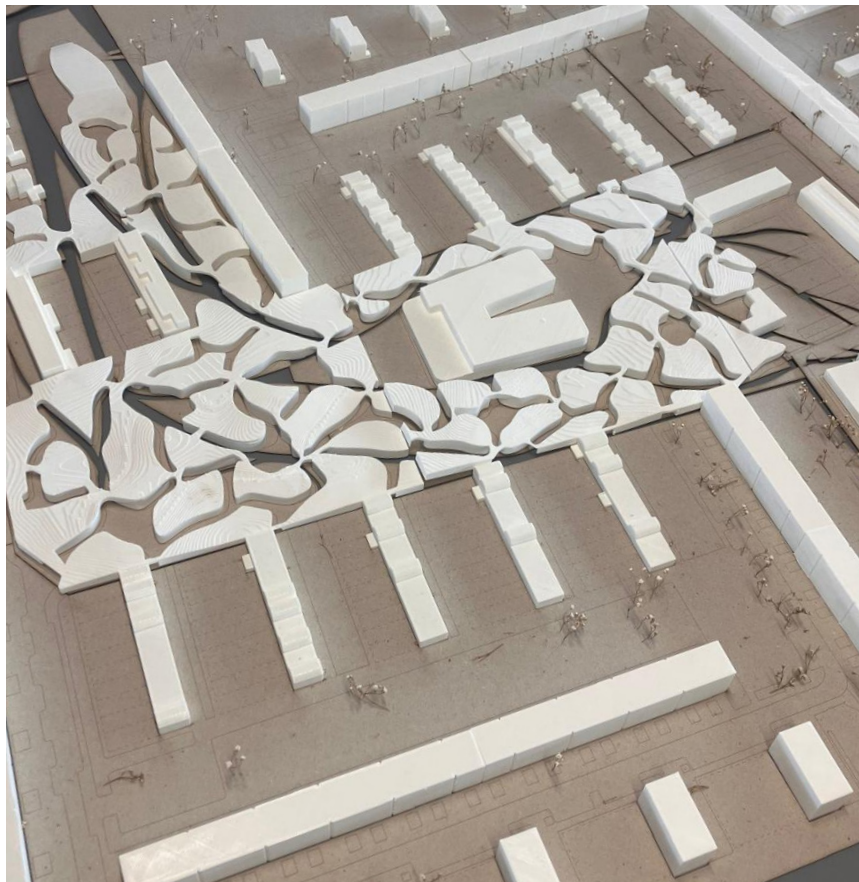
Negative space



Positive space



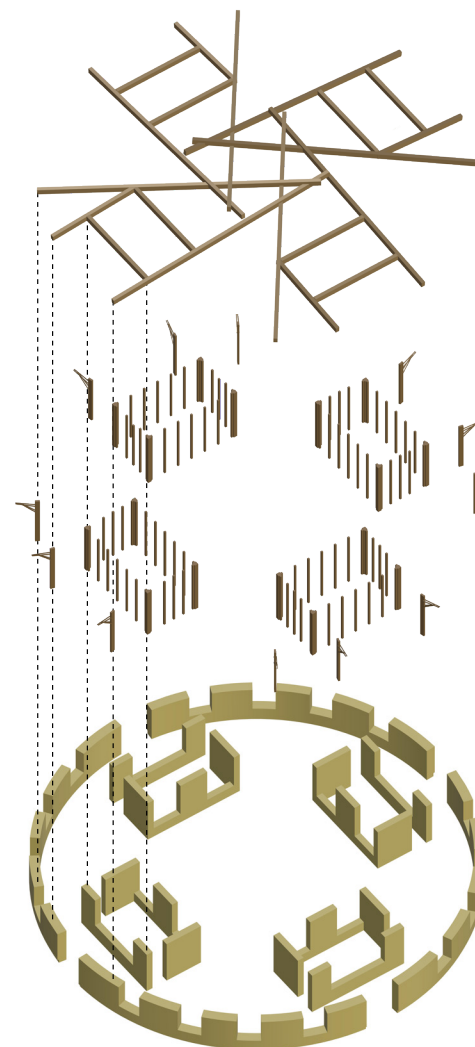
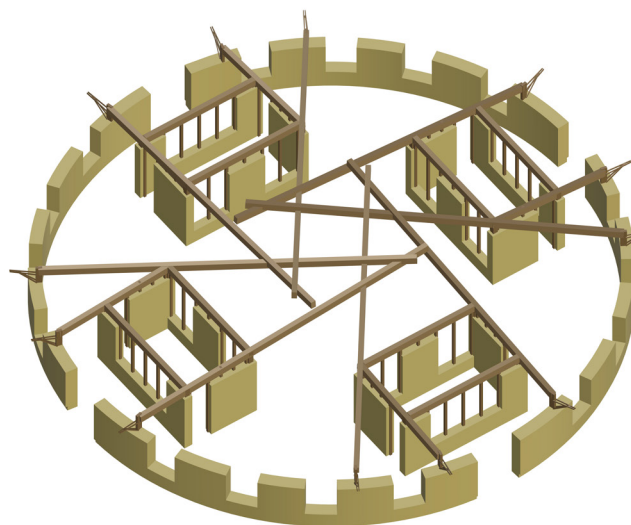
Water



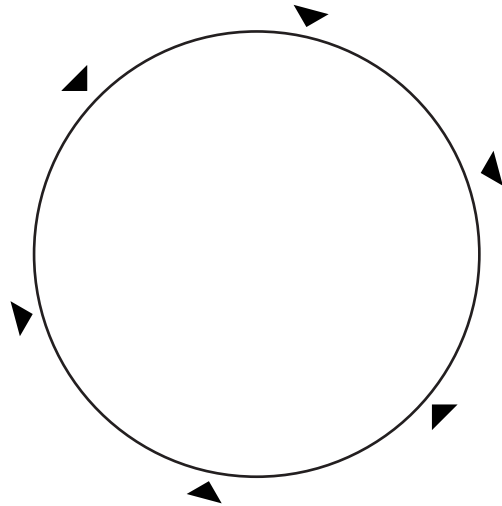
P2



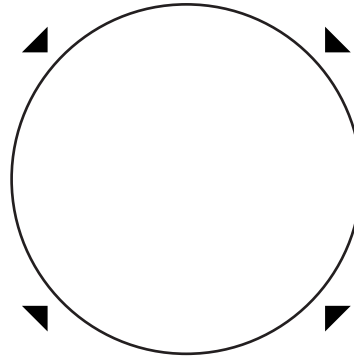
Construction



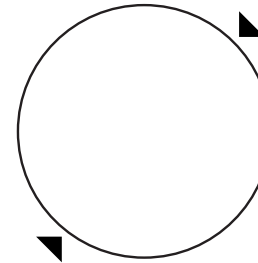
Construction



$R=14m$ (6 houses)

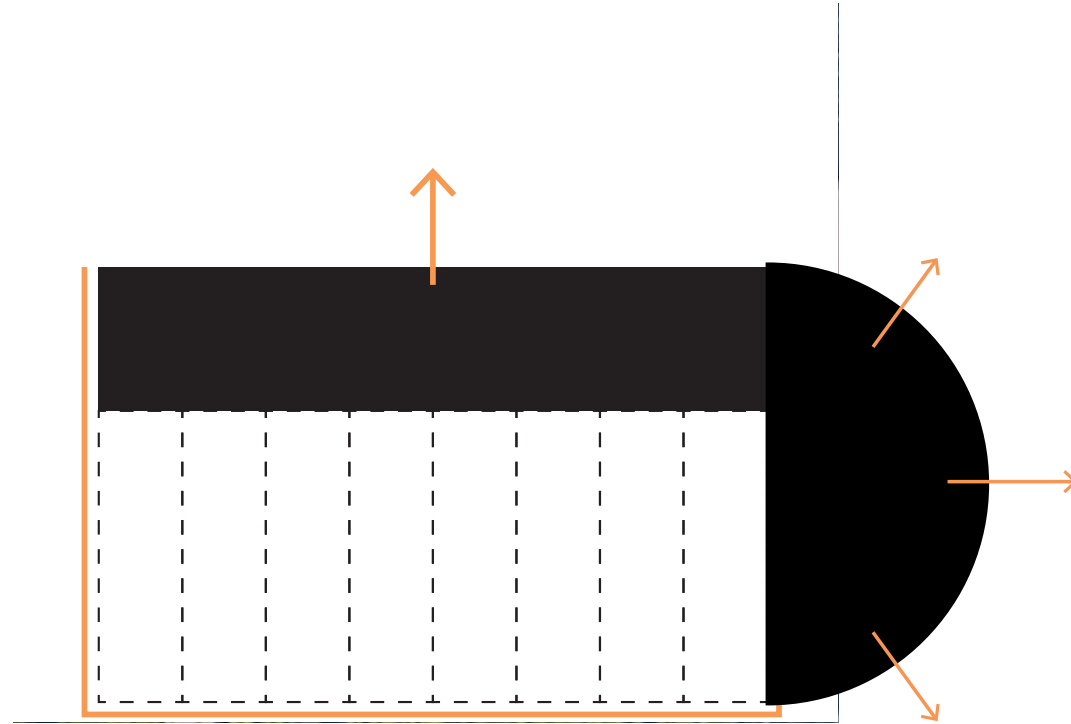


$R=11m$ (4 houses)



$R=8$ (2 houses)

Houses

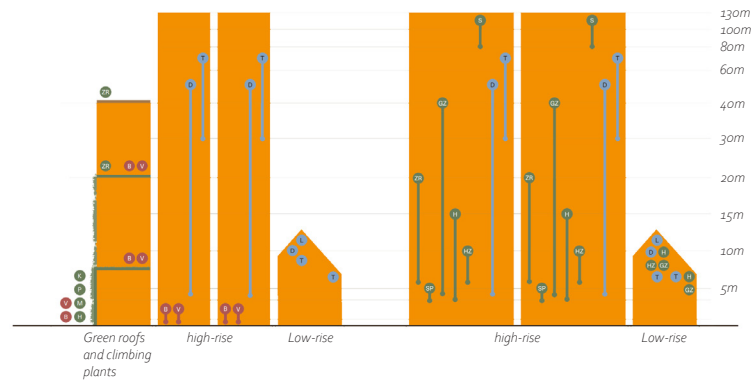


Orientation



Birds

- | | |
|---------------------|----------------------|
| (K) Titmouse | (Sp) Starling |
| (P) Blue tit | (Gz) Swift |
| (M) Blackbird | (Hz) House swallow |
| (H) House sparrow | (S) Peregrine falcon |
| (Zr) Black redstart | |



Mammal

- | |
|----------------------|
| (D) Common dwarf bat |
| (T) Bicoloured bat |
| (L) Late-flying bat |
| (Ee) Squirrel |
| (E) Hedgehogs |

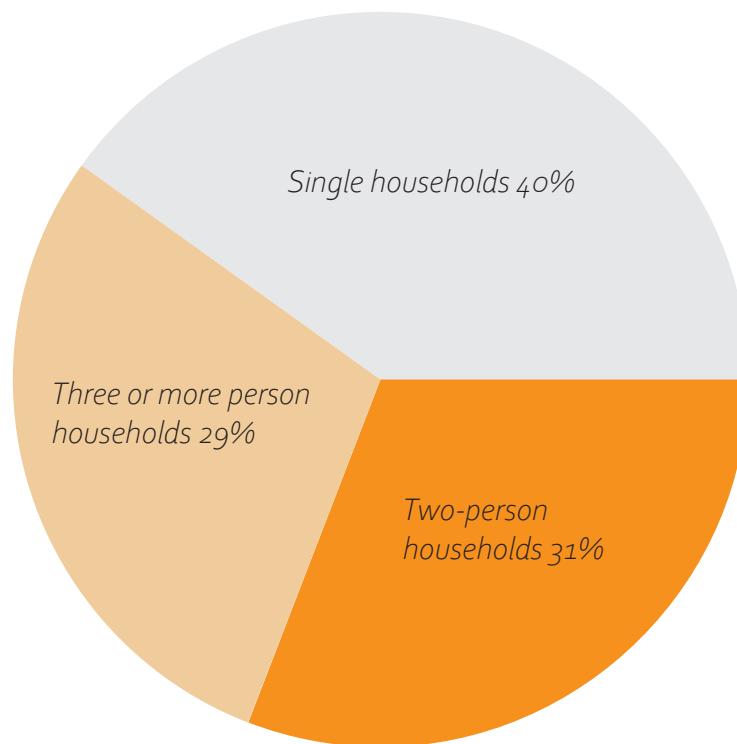
Insects

- | |
|-----------------|
| (B) Bees |
| (V) Butterflies |

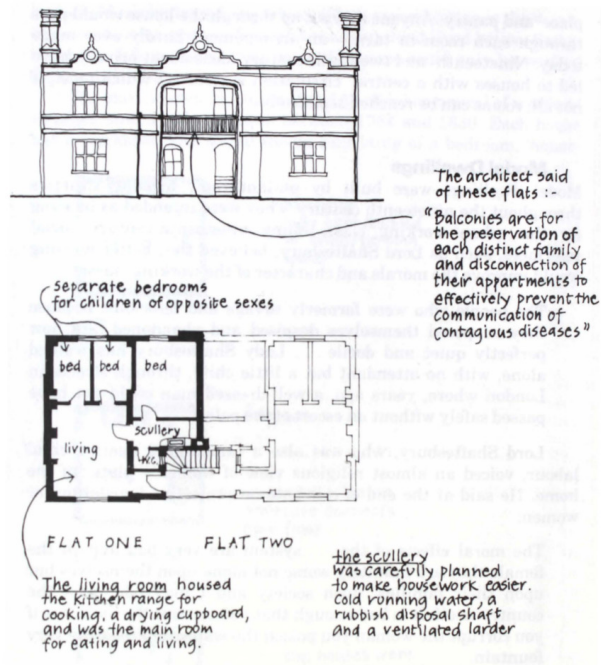
Mammal

- | |
|---------------------|
| (P) Pool frog |
| (R) Natterjack toad |

Target group; Non-Humans



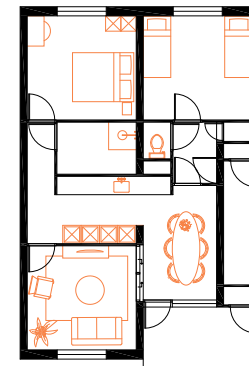
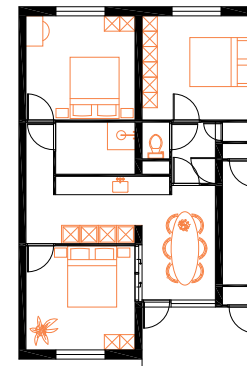
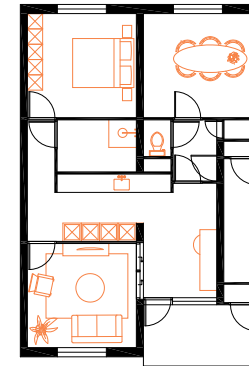
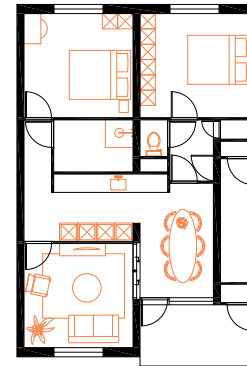
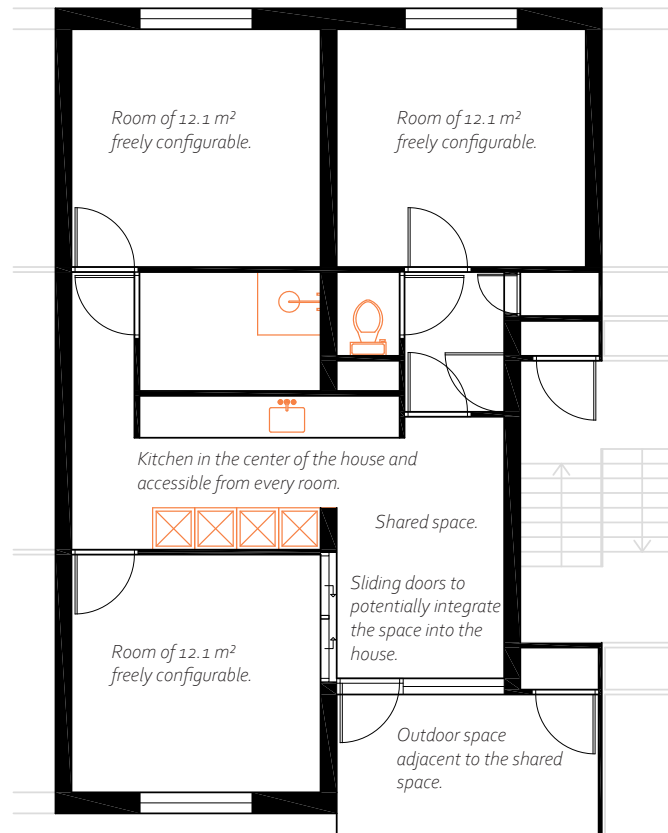
Target group; Non-Humans



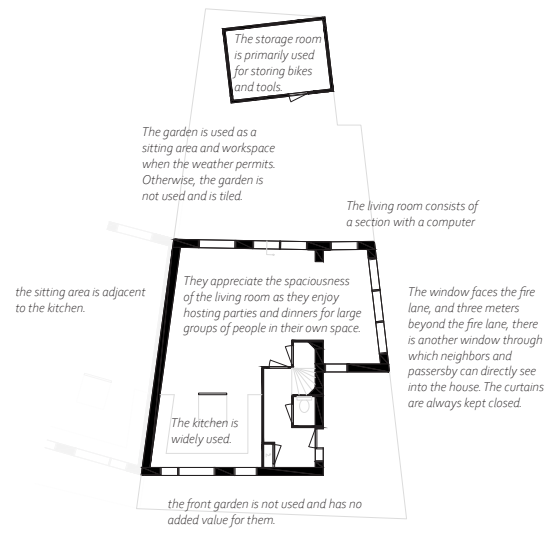
Quantity
 Typological Thinking



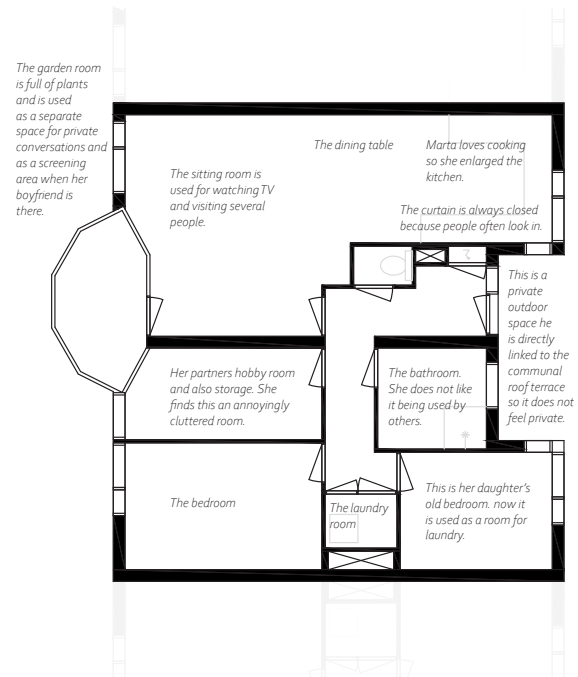
How a design emerges



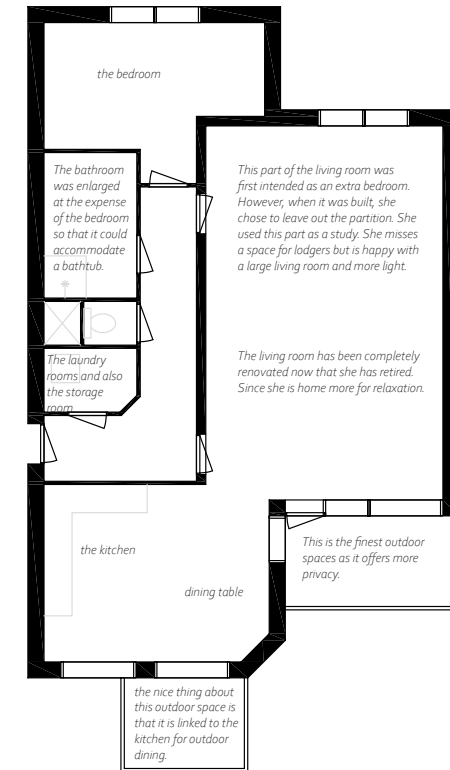
Non-hierarchical house



Loes and Ijnze



Martha



LIdy

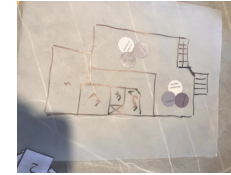
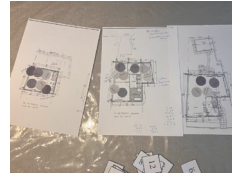
Research

Couples

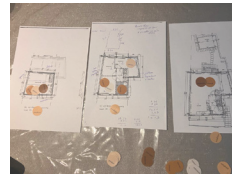
LAT relationships

Singles

interacting
with people in
space



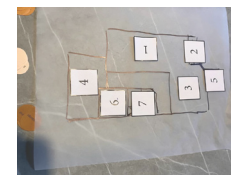
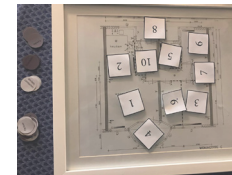
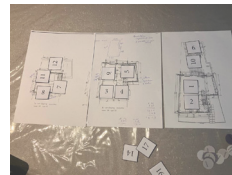
the feeling
and
perception of
space



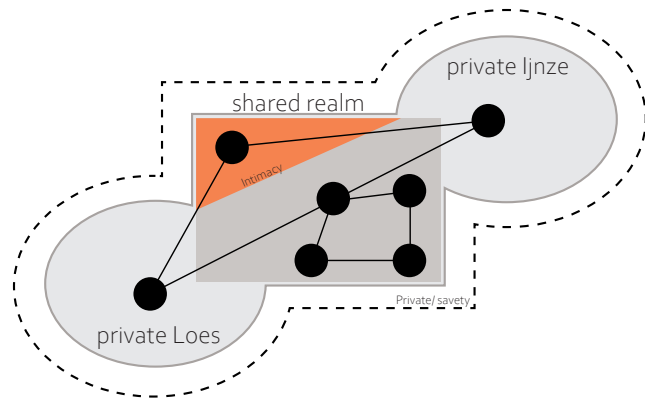
sharing
tasks and
care in
space



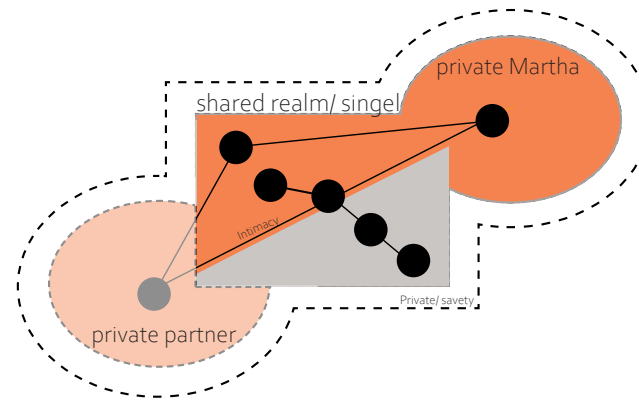
the
importance
of space



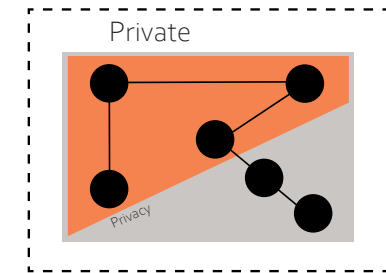
Game



Couples

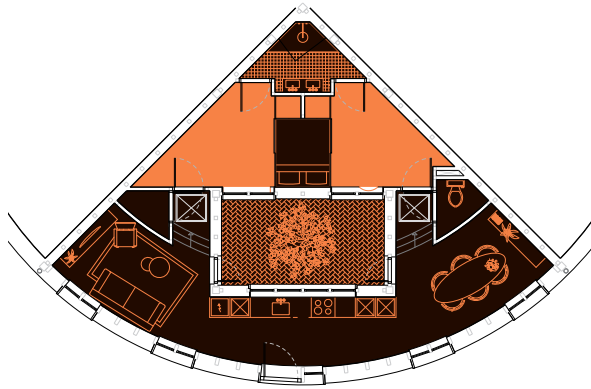


LAT relationships

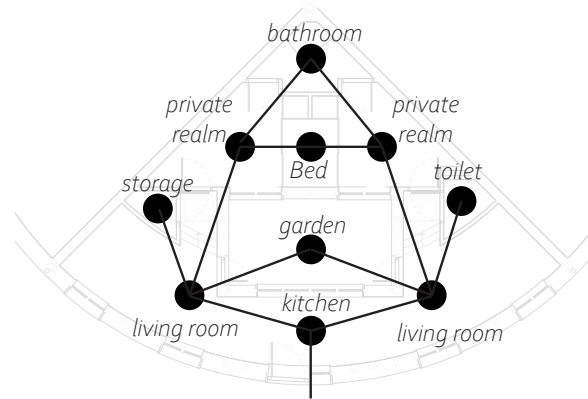


Singles

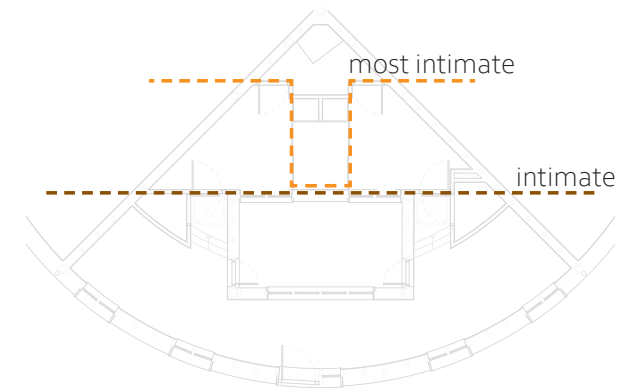
Relationship diagram



Shared (black) and private realm (orange)

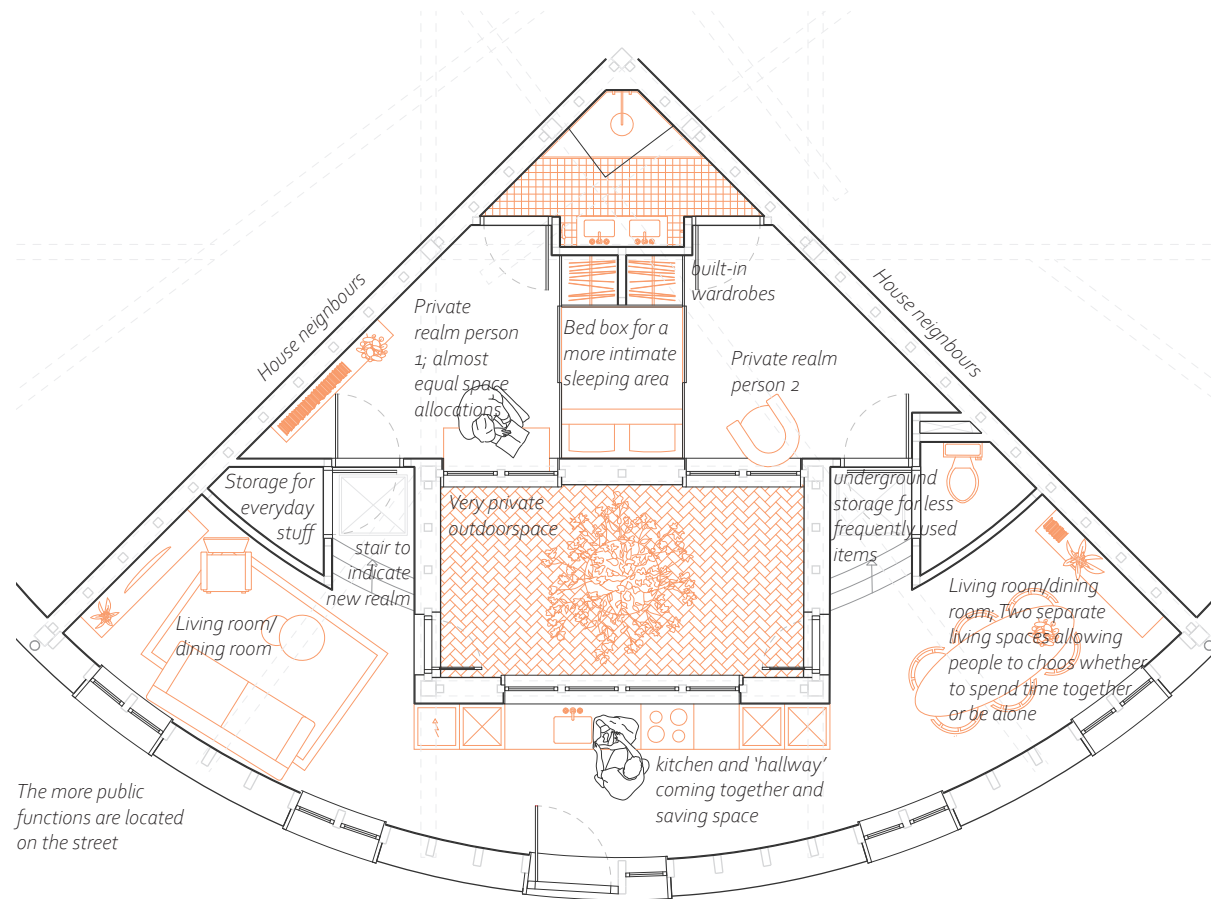


Space syntax



Relationship diagram

Intimate couples

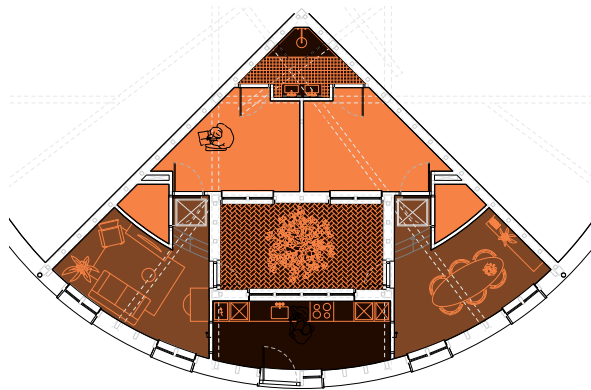


The more public functions are located on the street

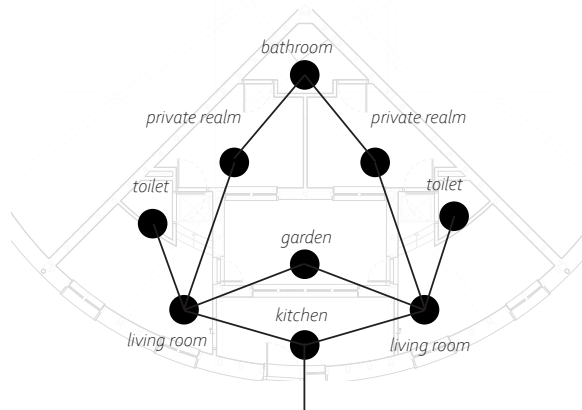
Intimate couples



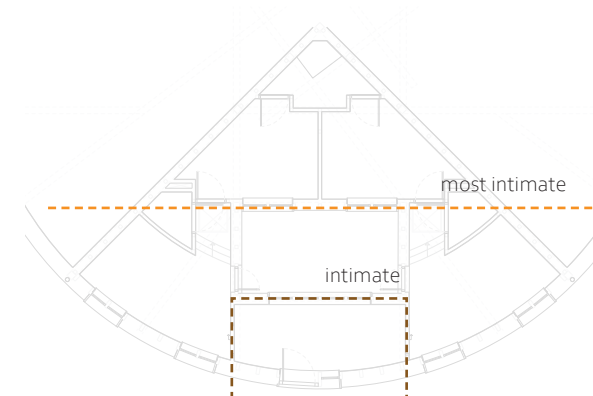
one house of four
R=11m
65 m² GO



Shared (black) and private realm (orange)

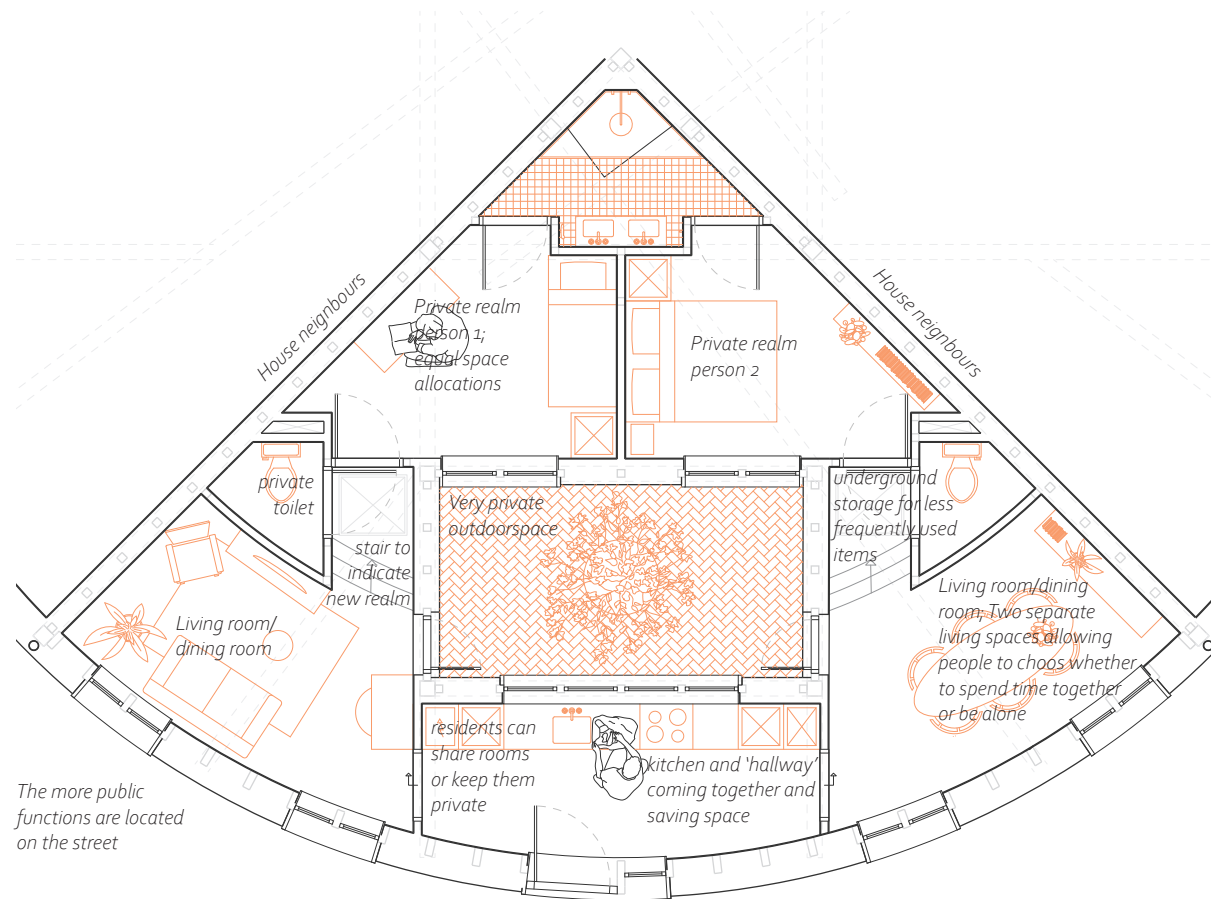


Space syntax,



Relationship diagram

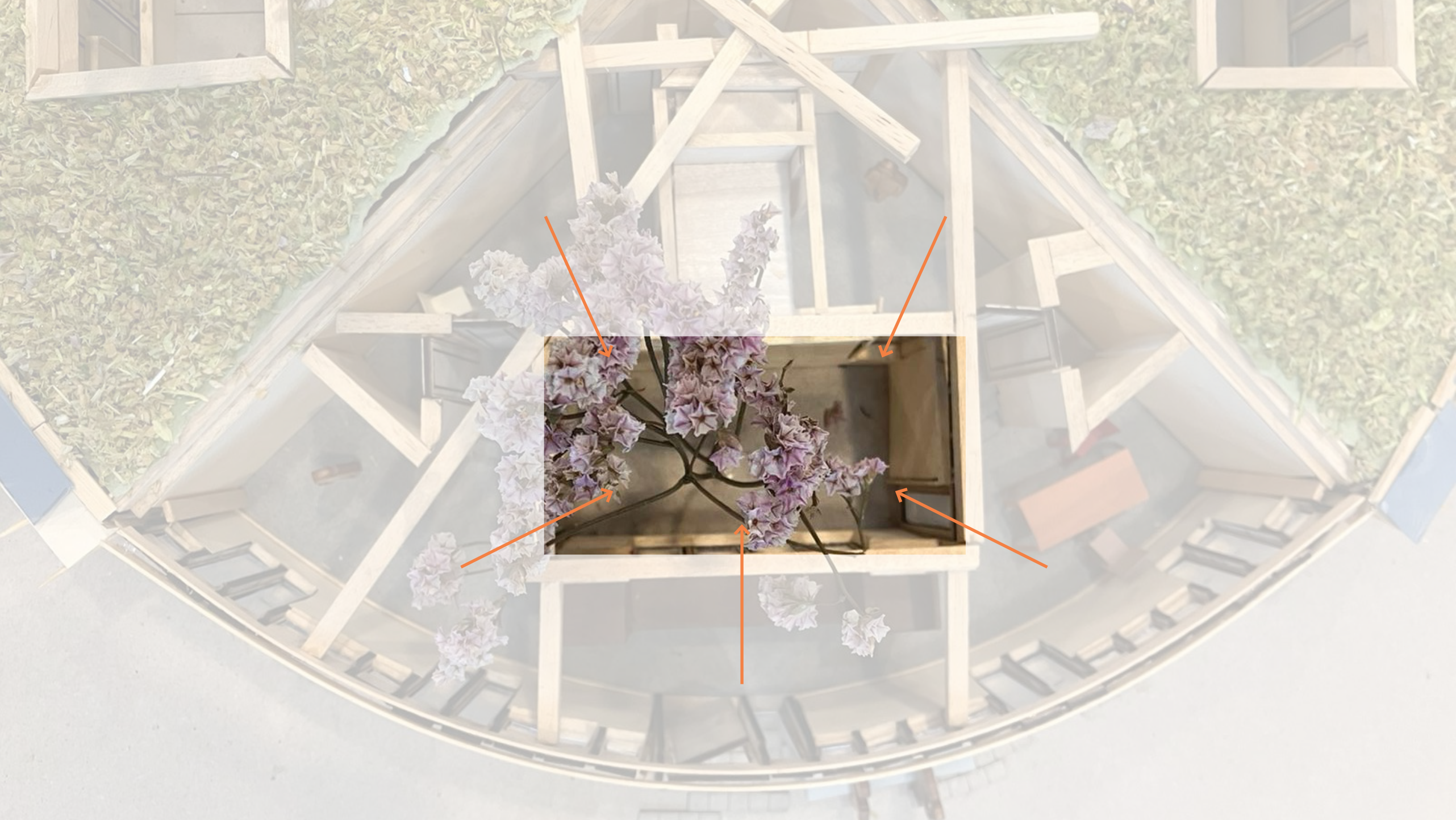
Non-intimate couples



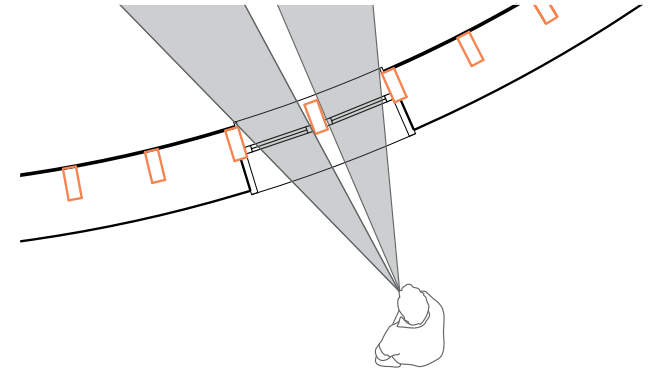
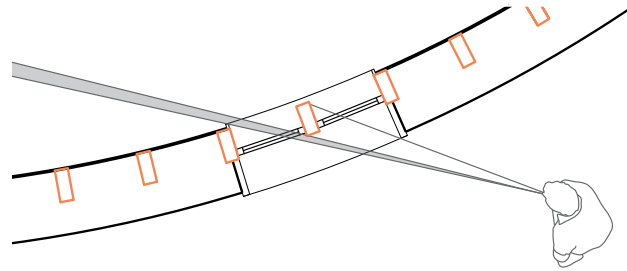
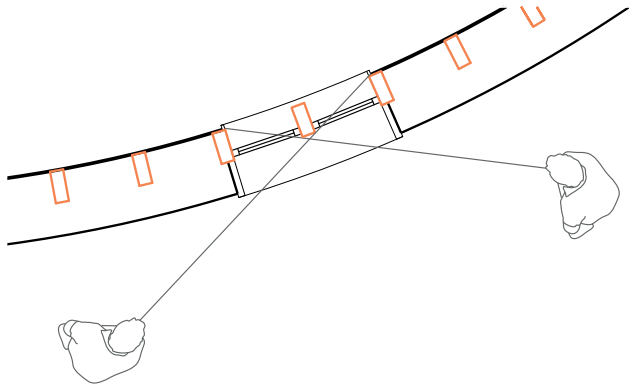
Non-intimate couples



one house of four
 $R=11m$
 65 m² GO

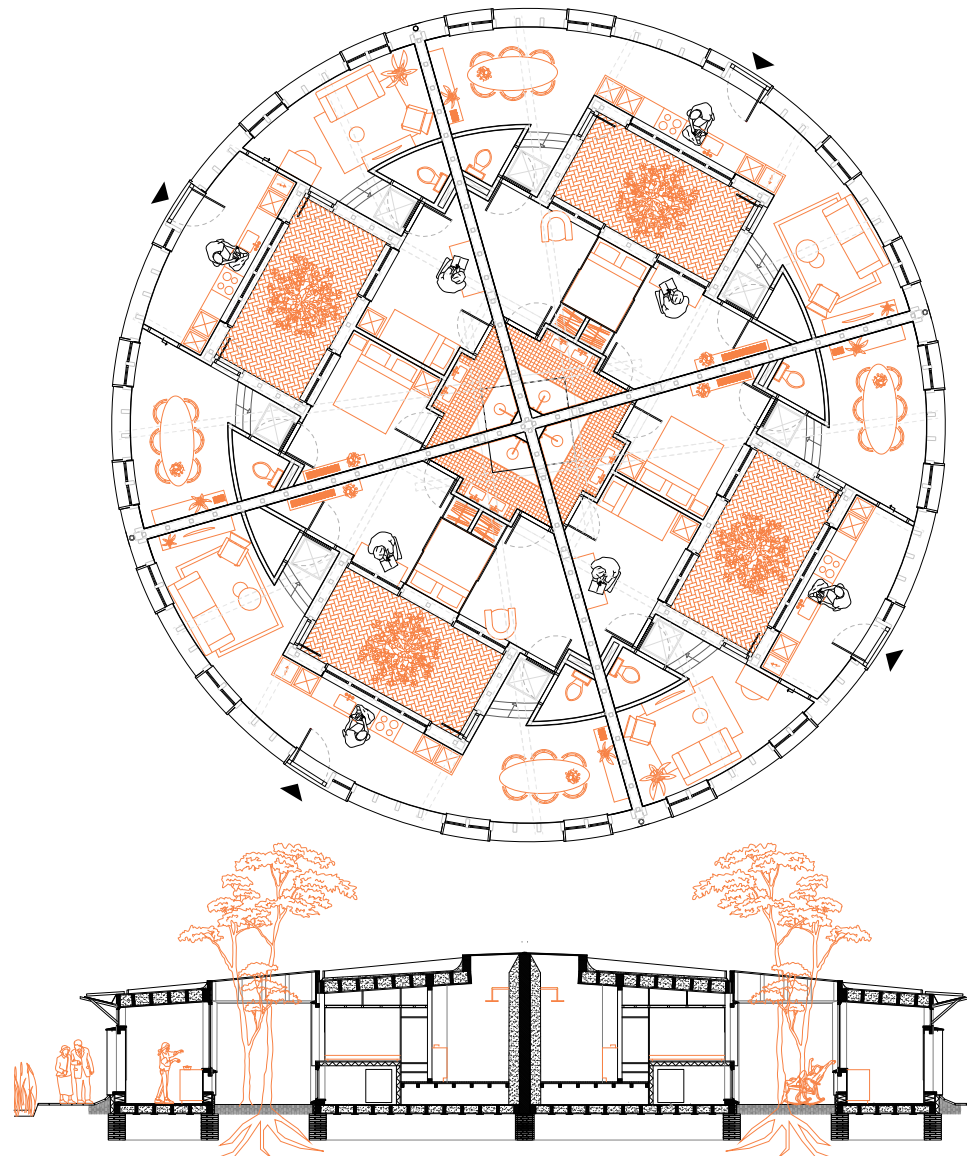


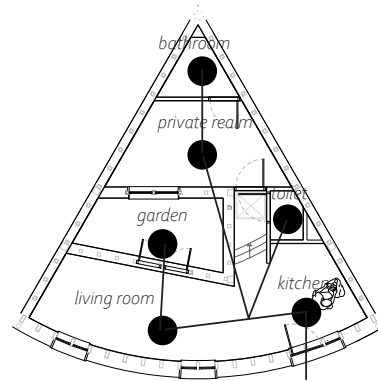




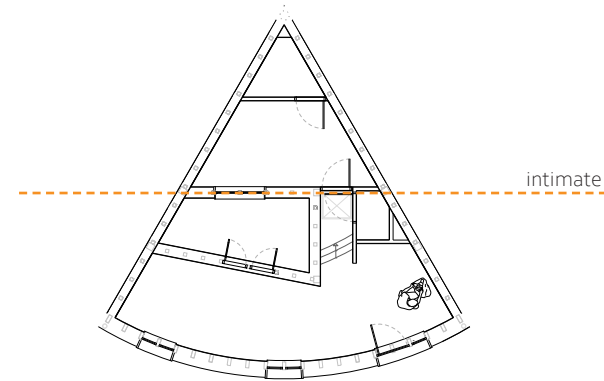
Relationship with inside and outside





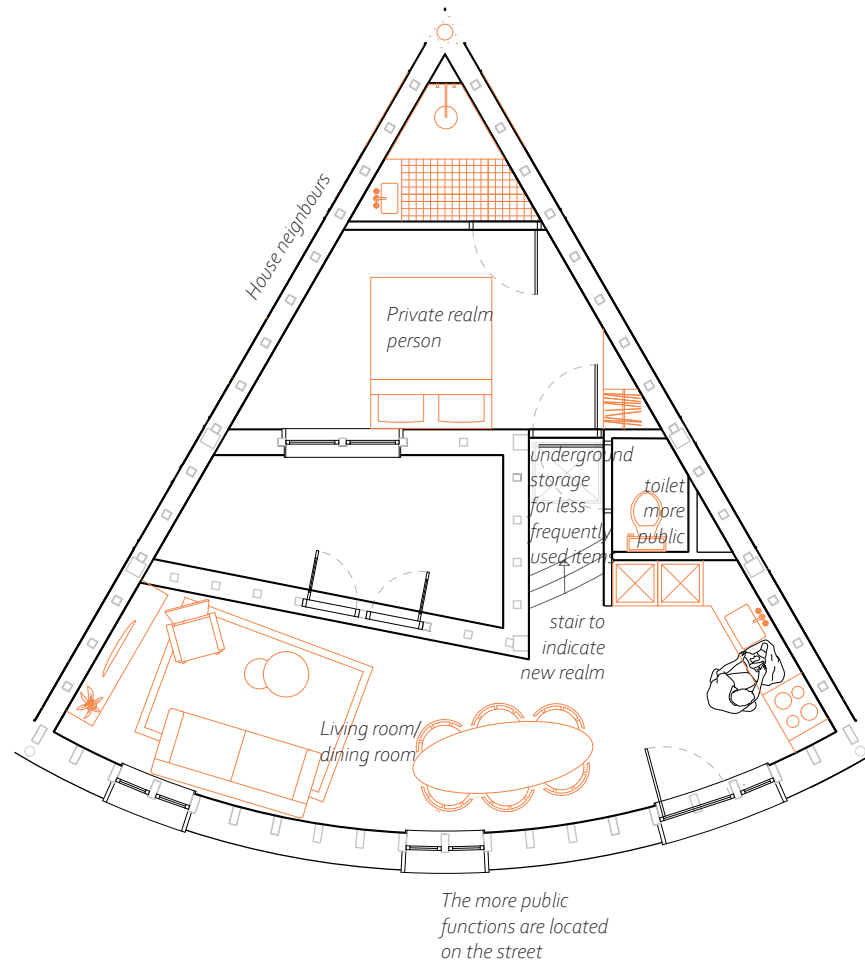


Space syntax

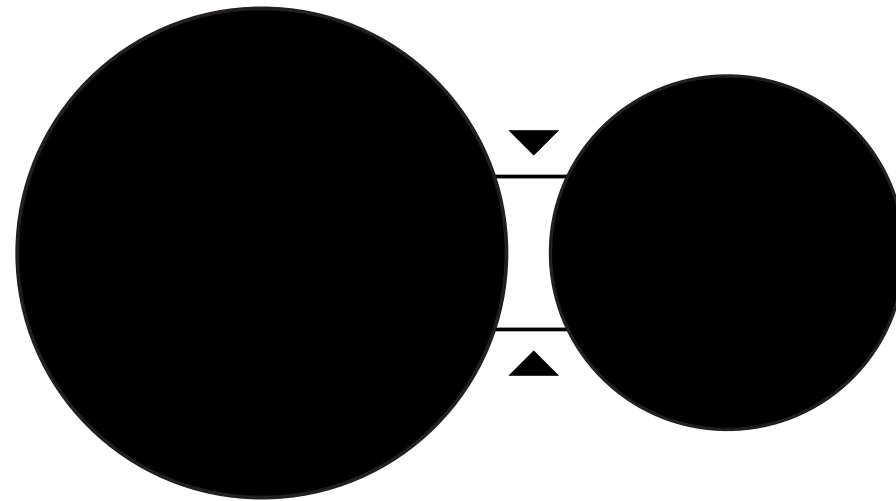


Relationship diagram

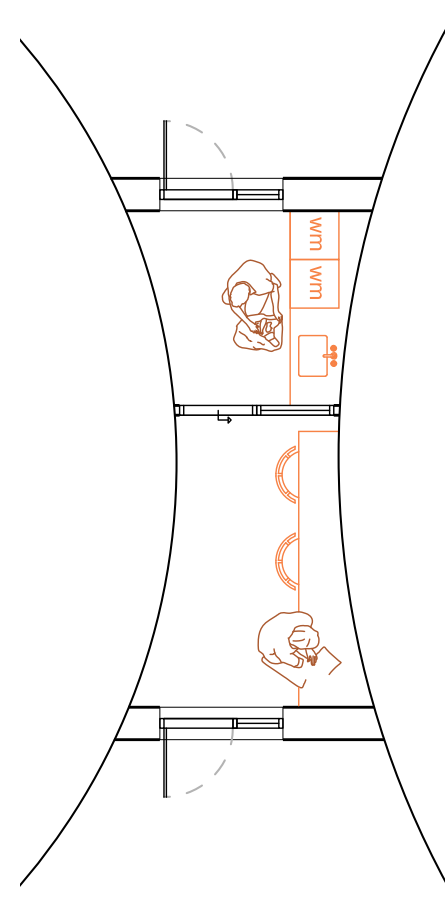
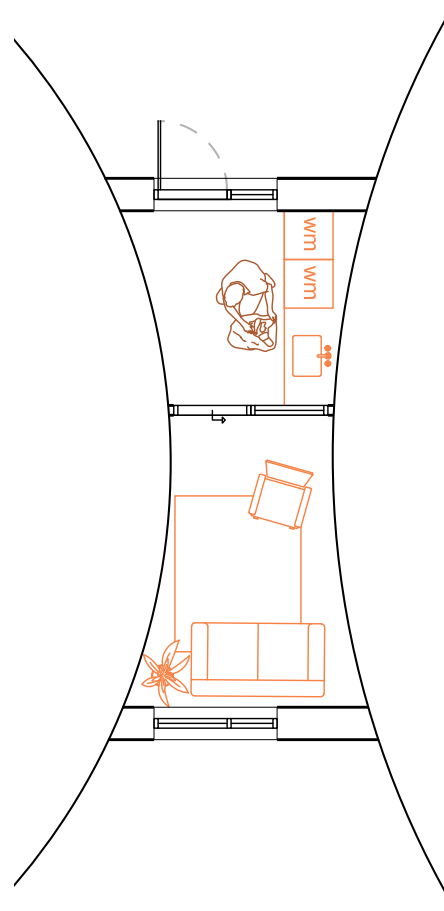
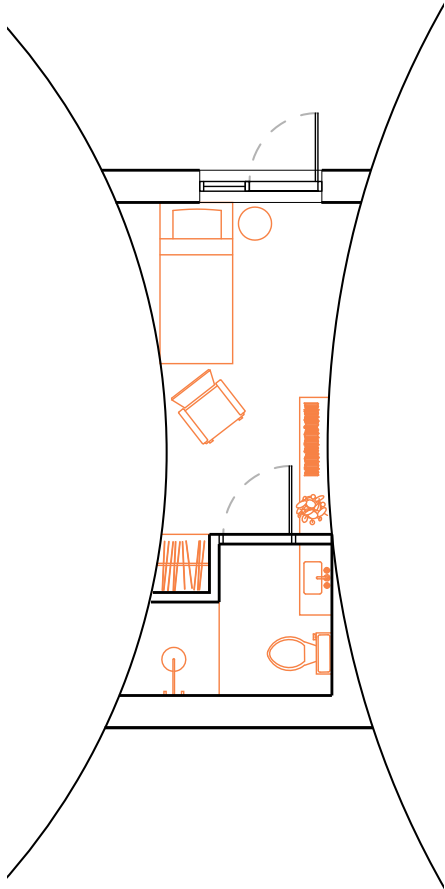
One person households



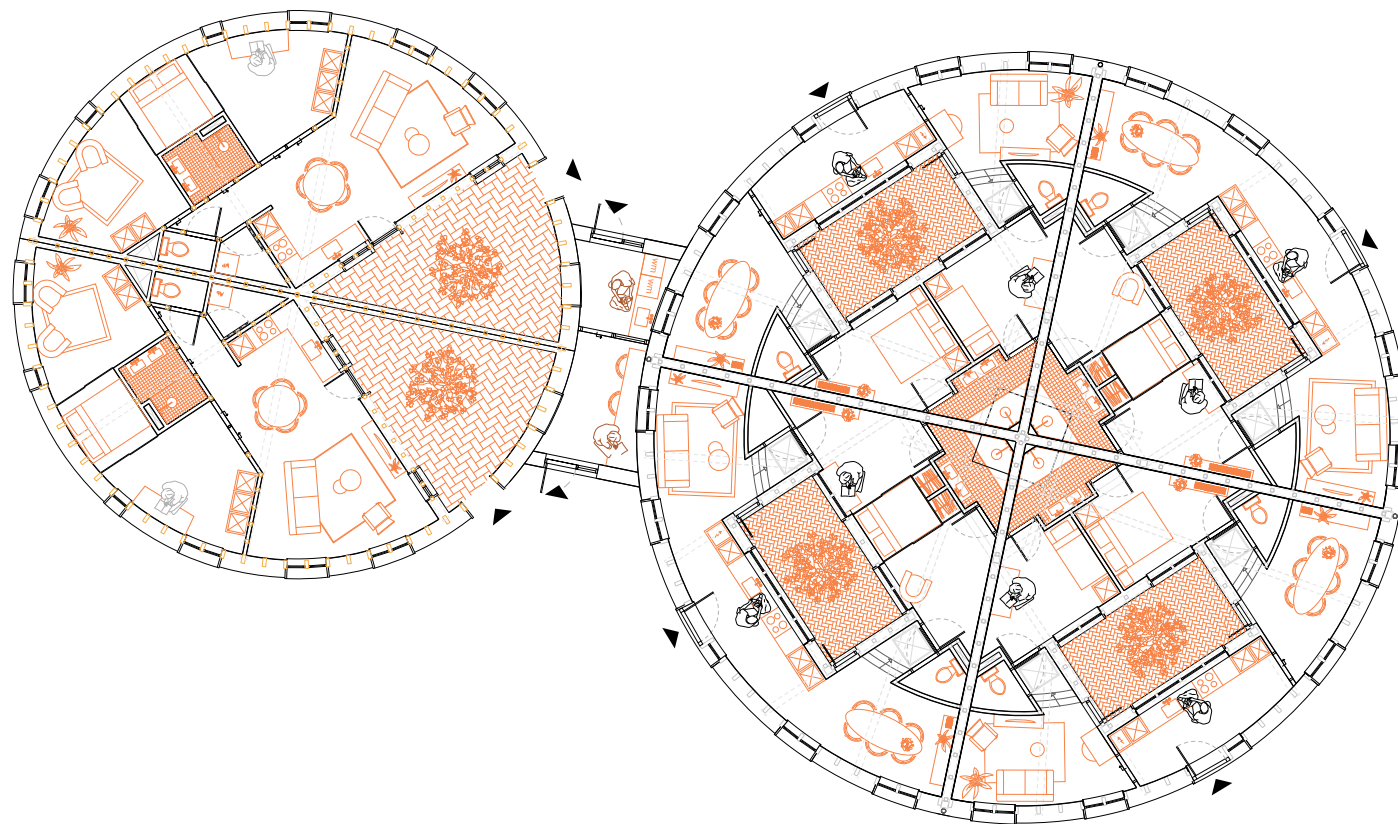
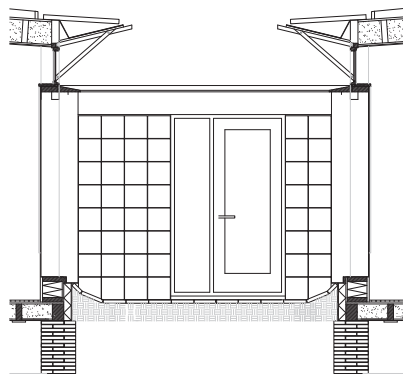
One person households



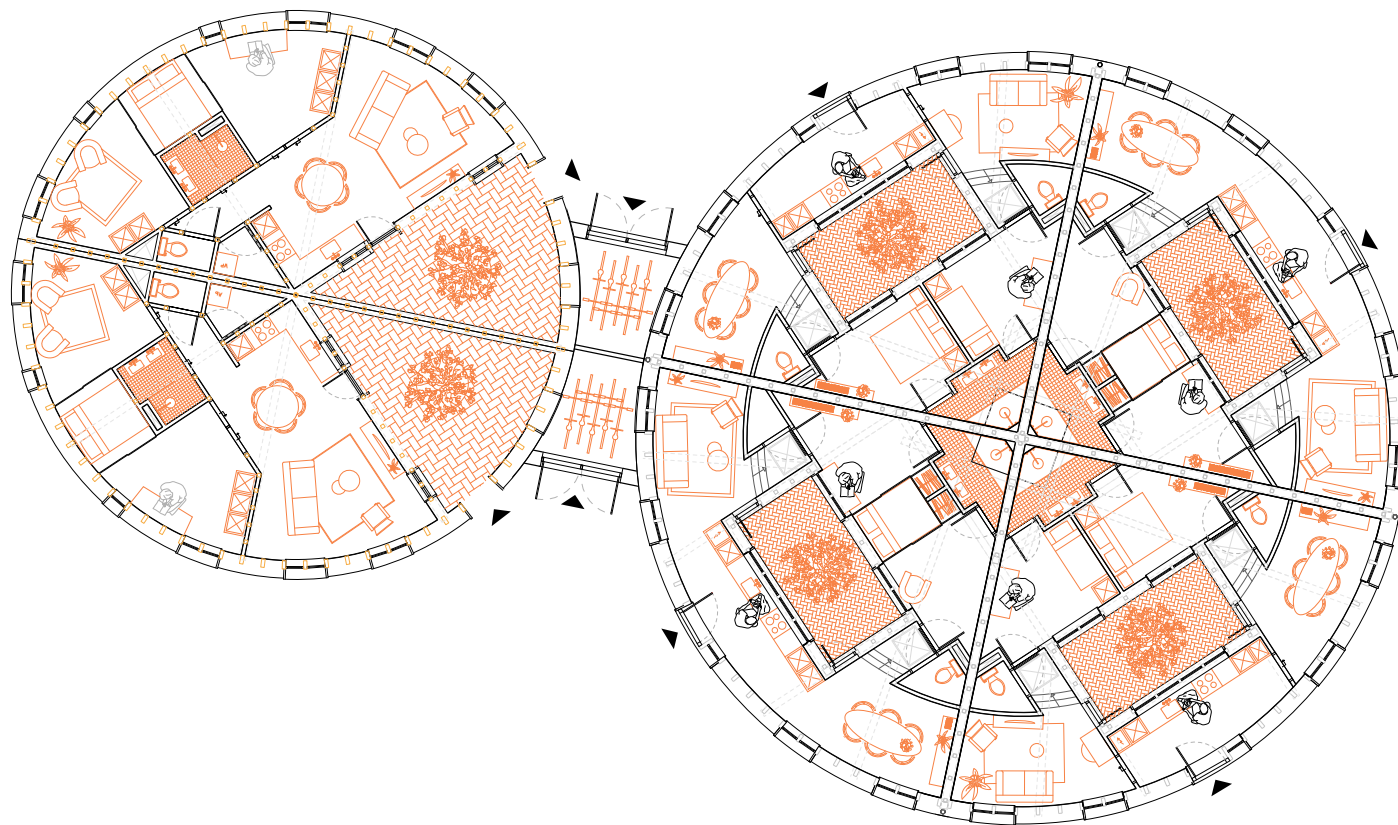
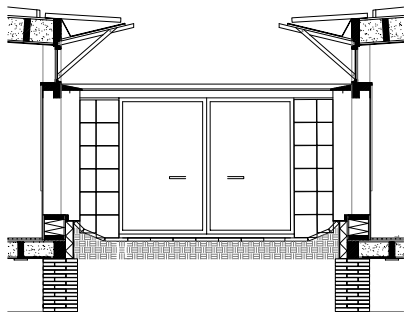
Shared spaces



Shared spaces



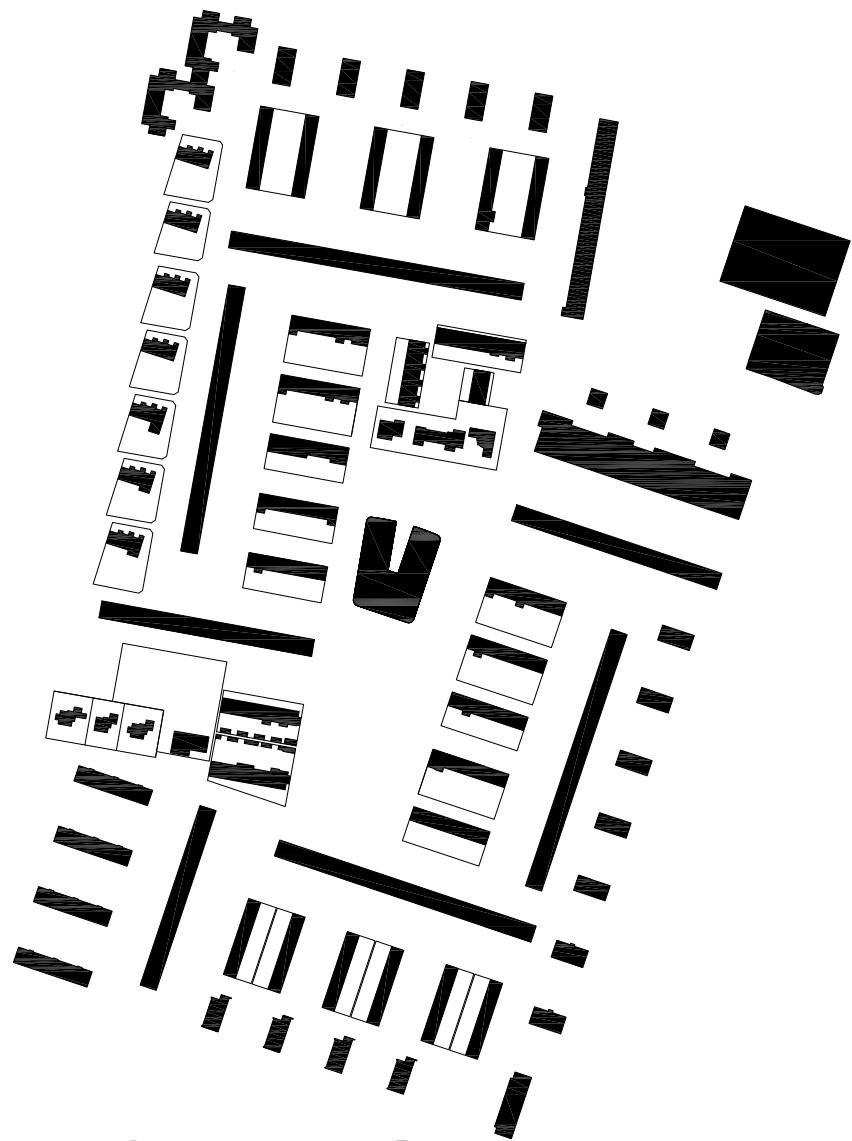
Shared spaces



Shared spaces



Using the house



Current neighbourhood



current neighbourhood

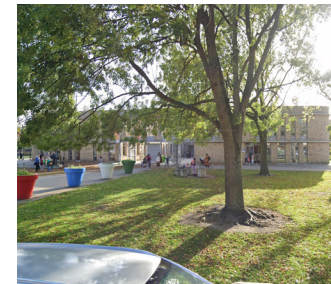
2. Dog school woef



5. Park

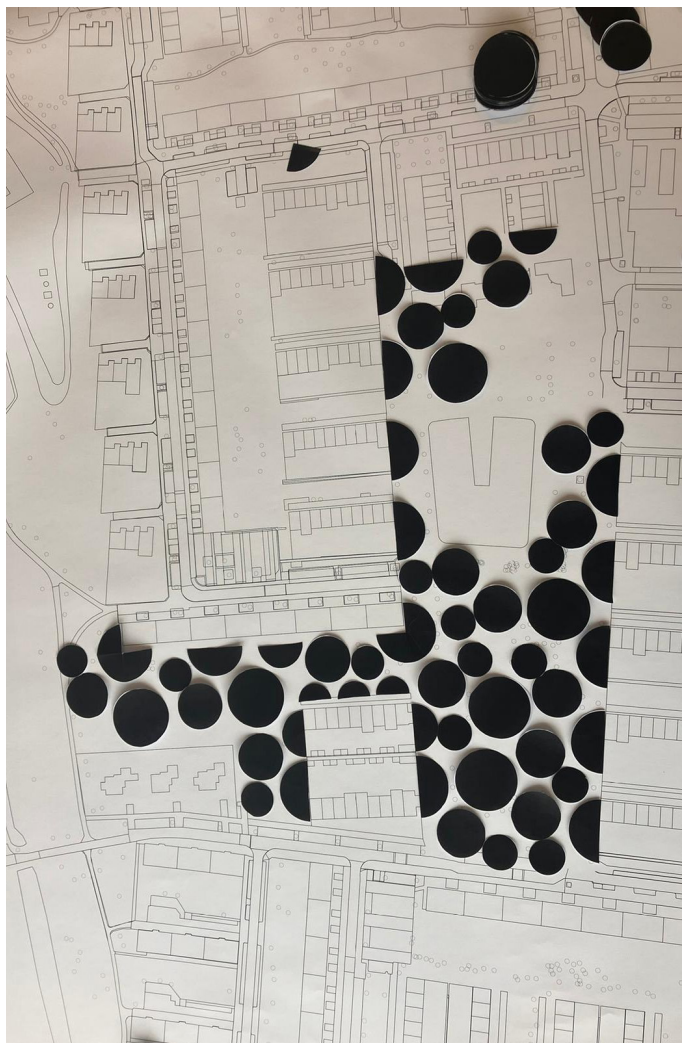


6. IKC Prins Willem Alexander

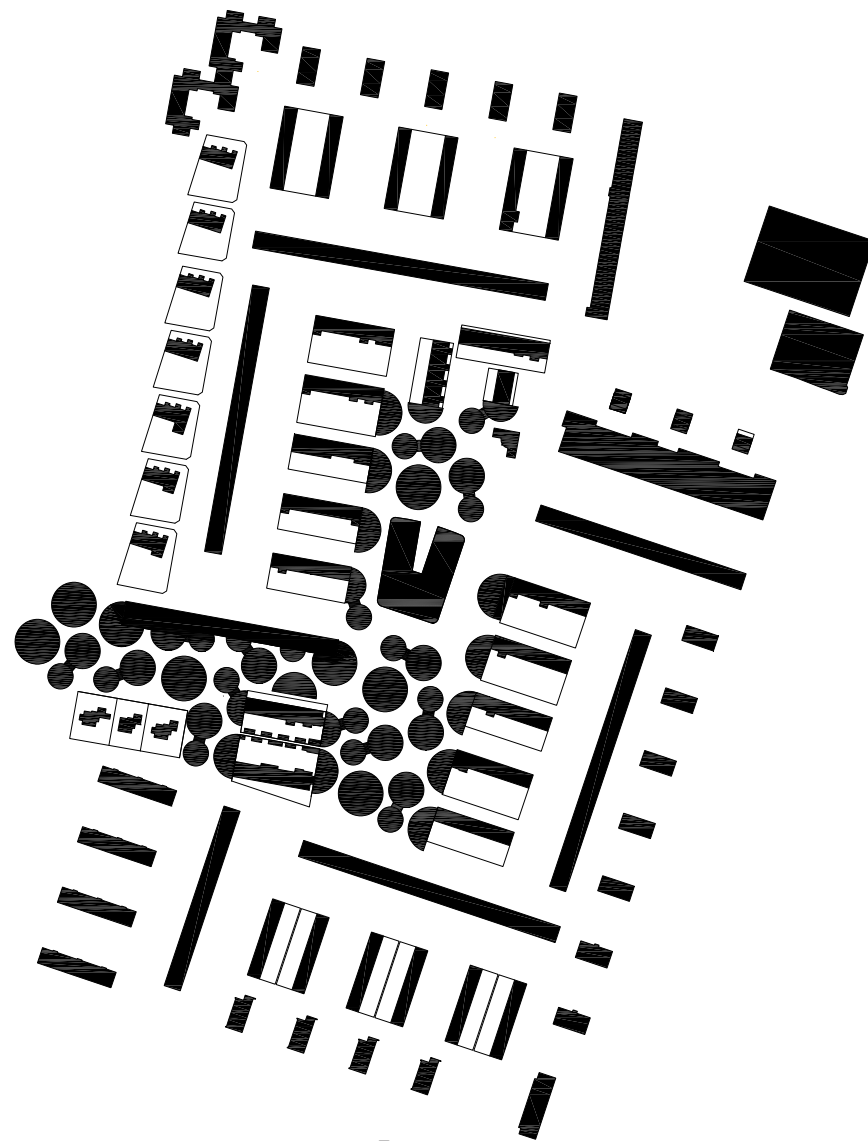




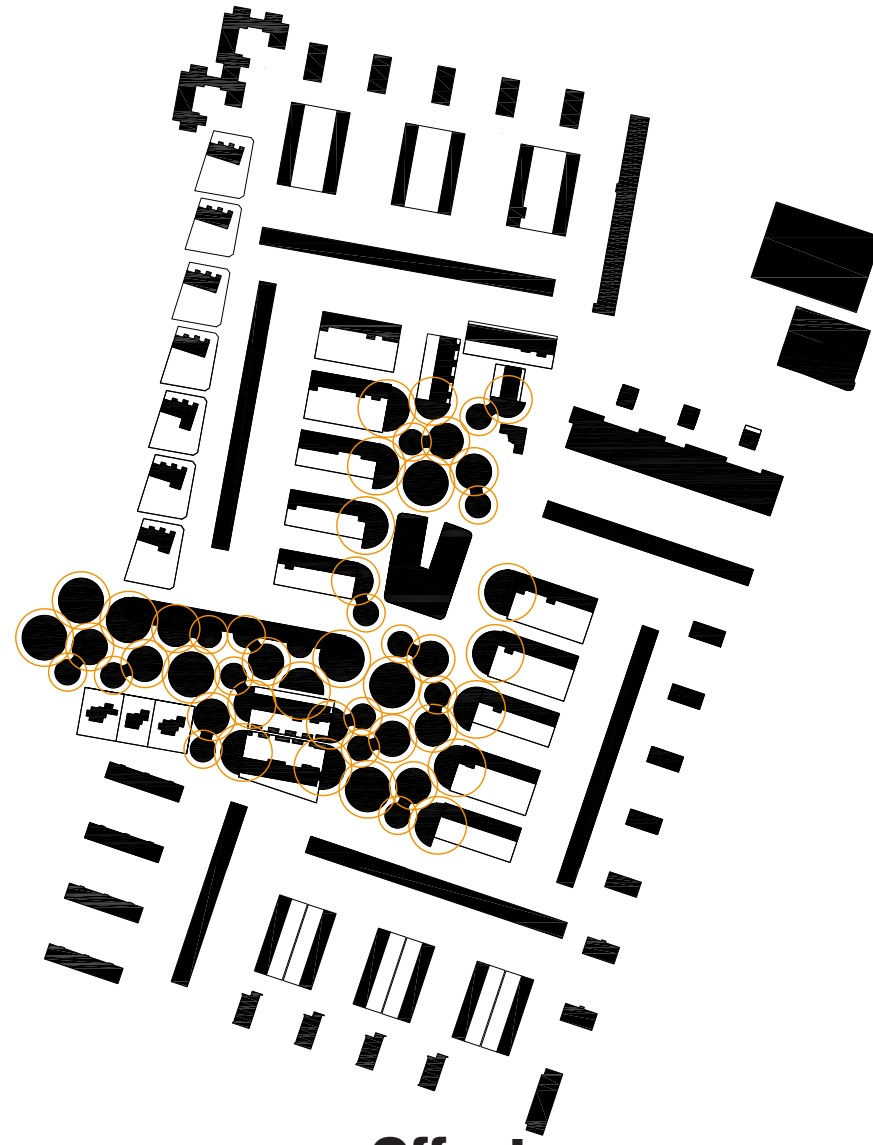
Mobility



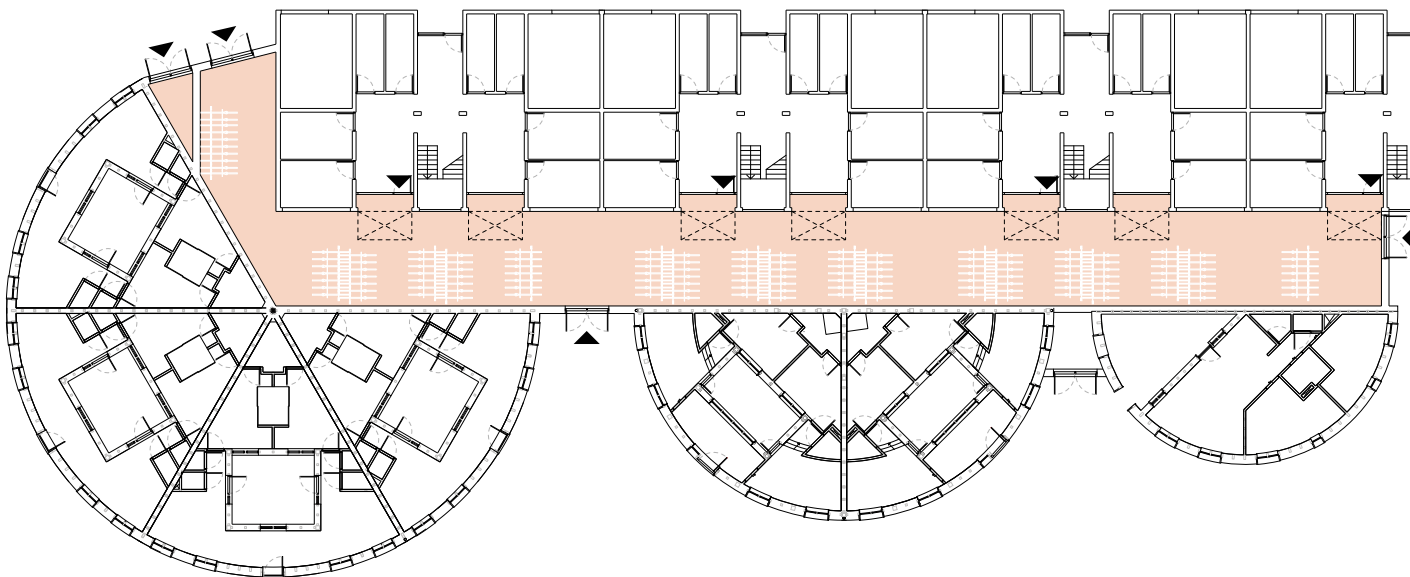
Testing of composition homes



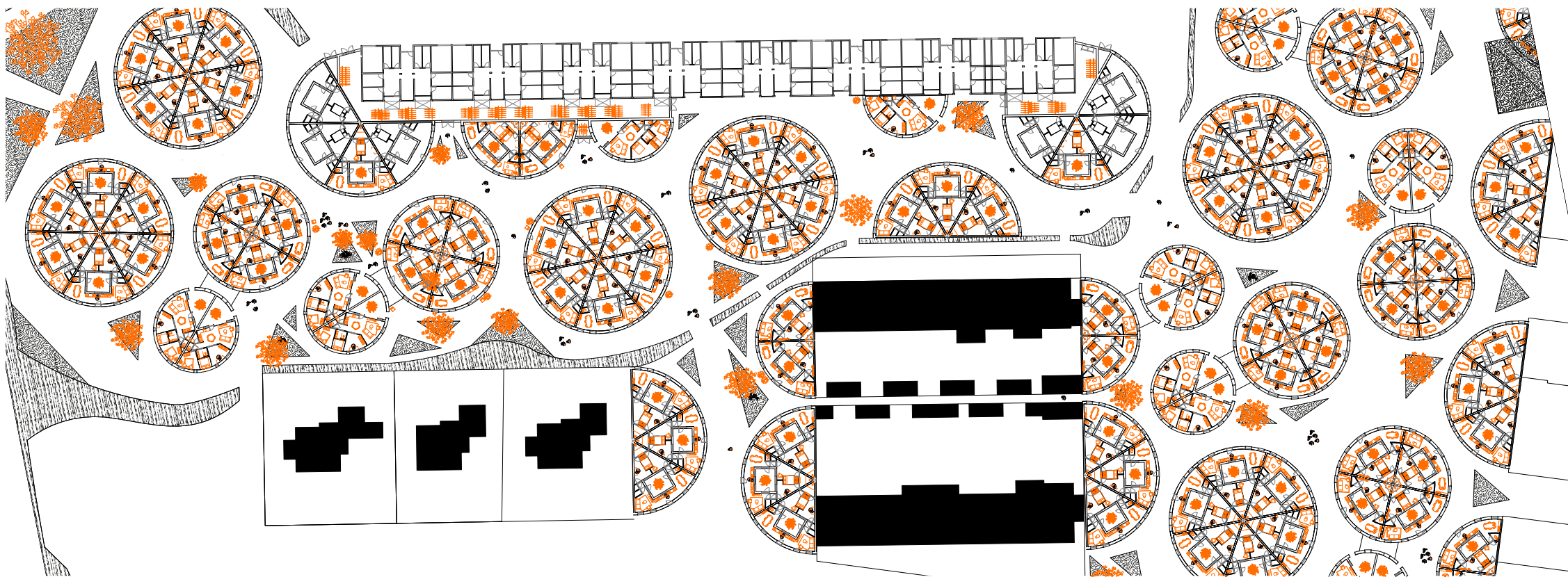
New neighbourhood



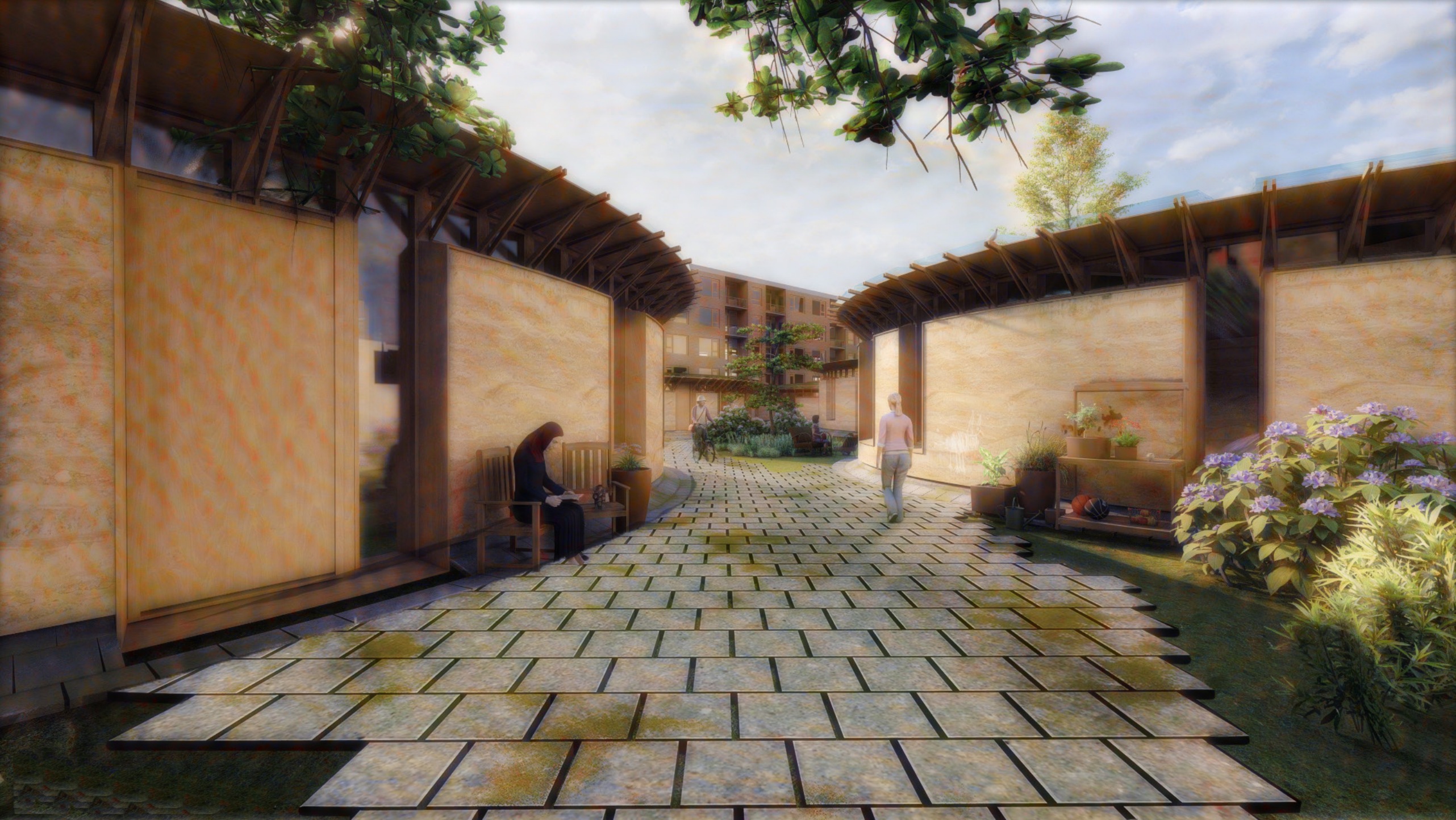
Offset



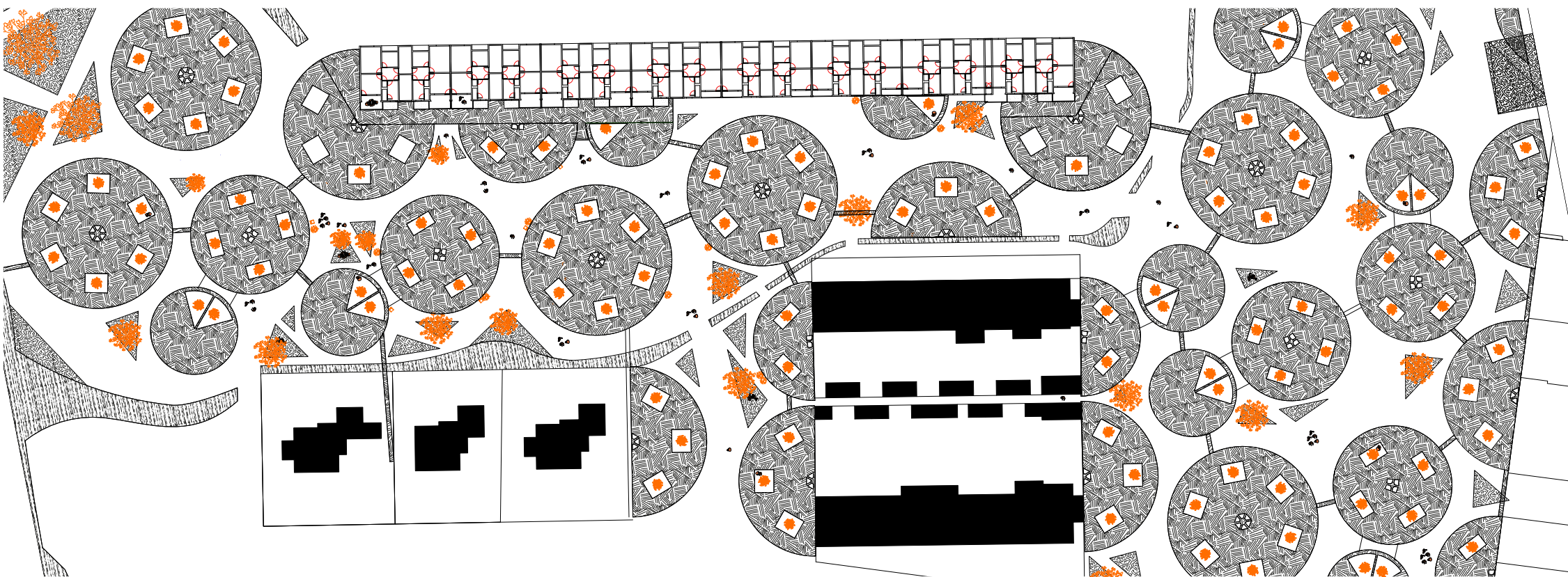
Bicycle parking



Place for humans



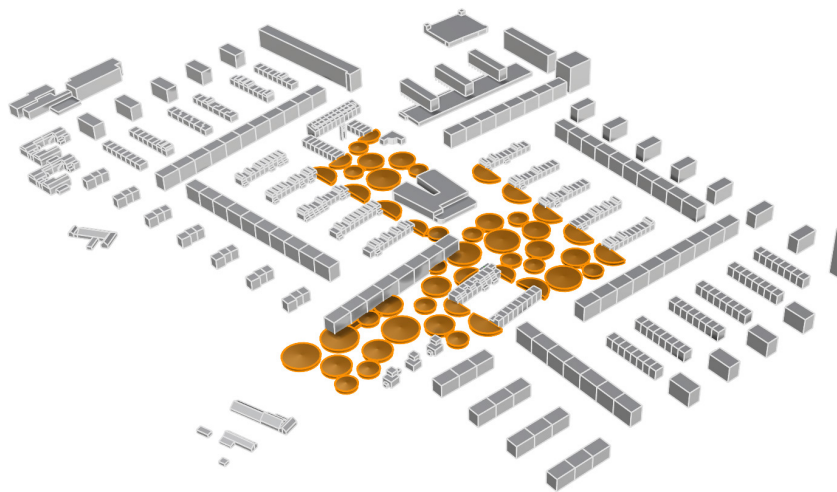




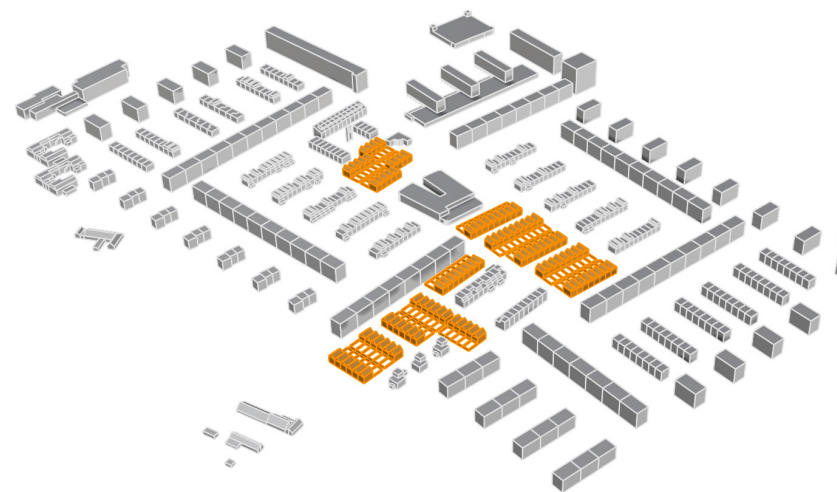
Place for non-humans







150 houses
82 ground surface BVO



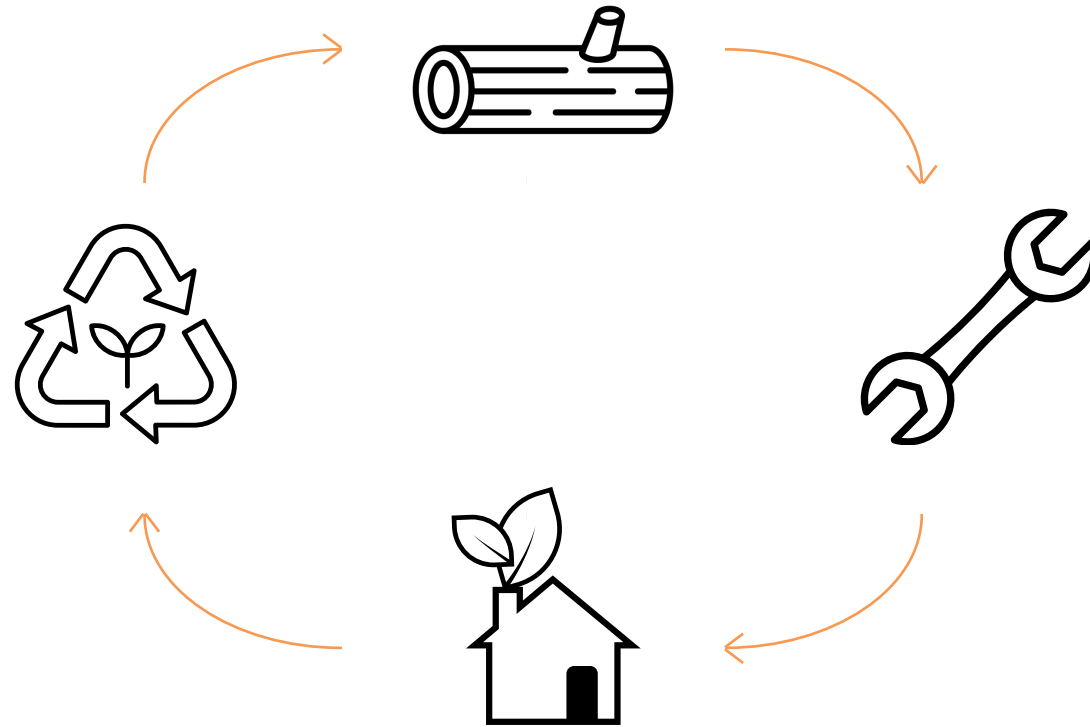
93 houses
54 ground surface BVO

Traditional building



NATIONAL PRODUCTIVE
PARK DELFTLAND

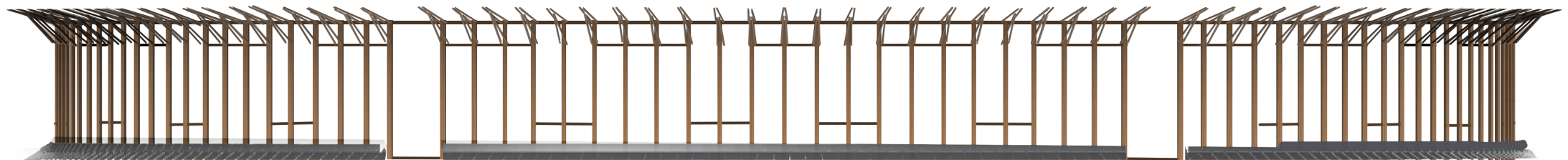
National productive park Delfland



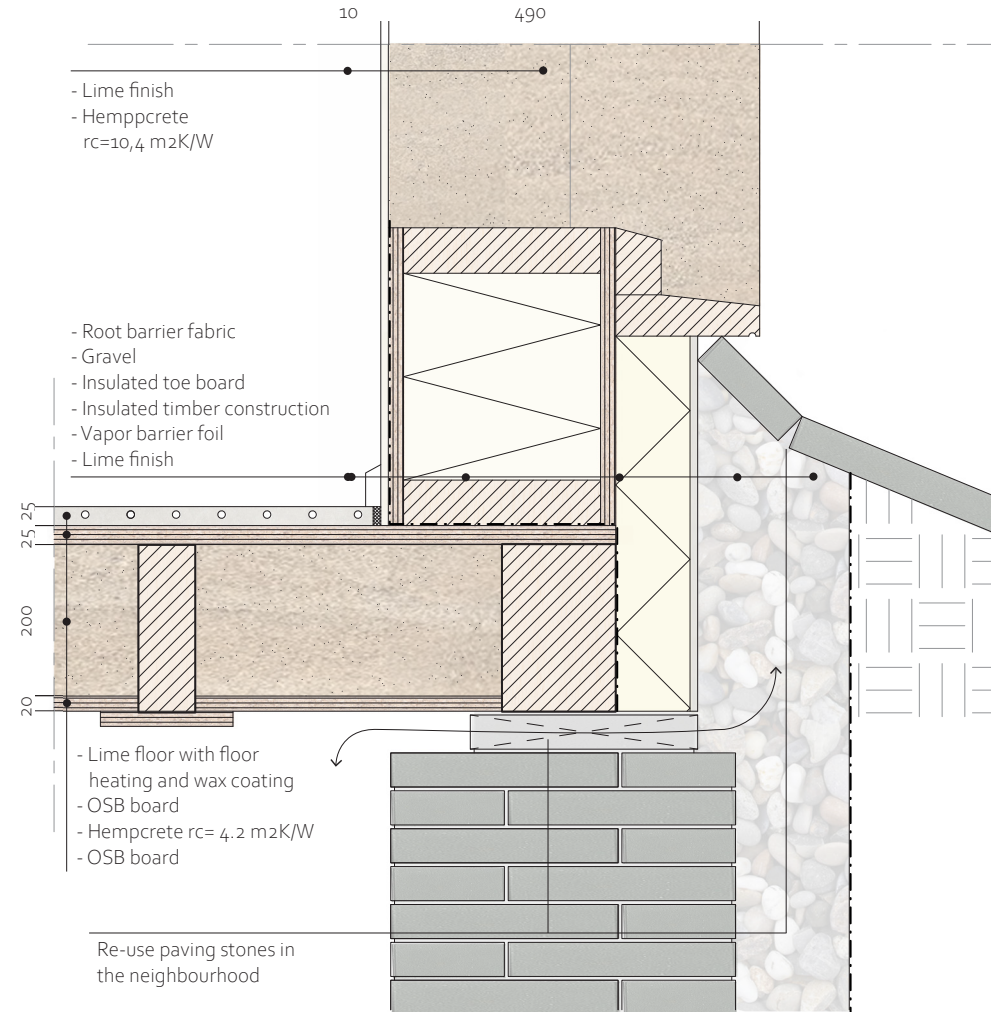
biobased building



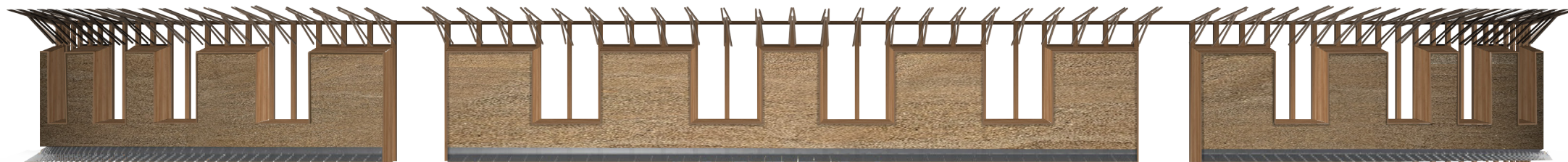
Material testing



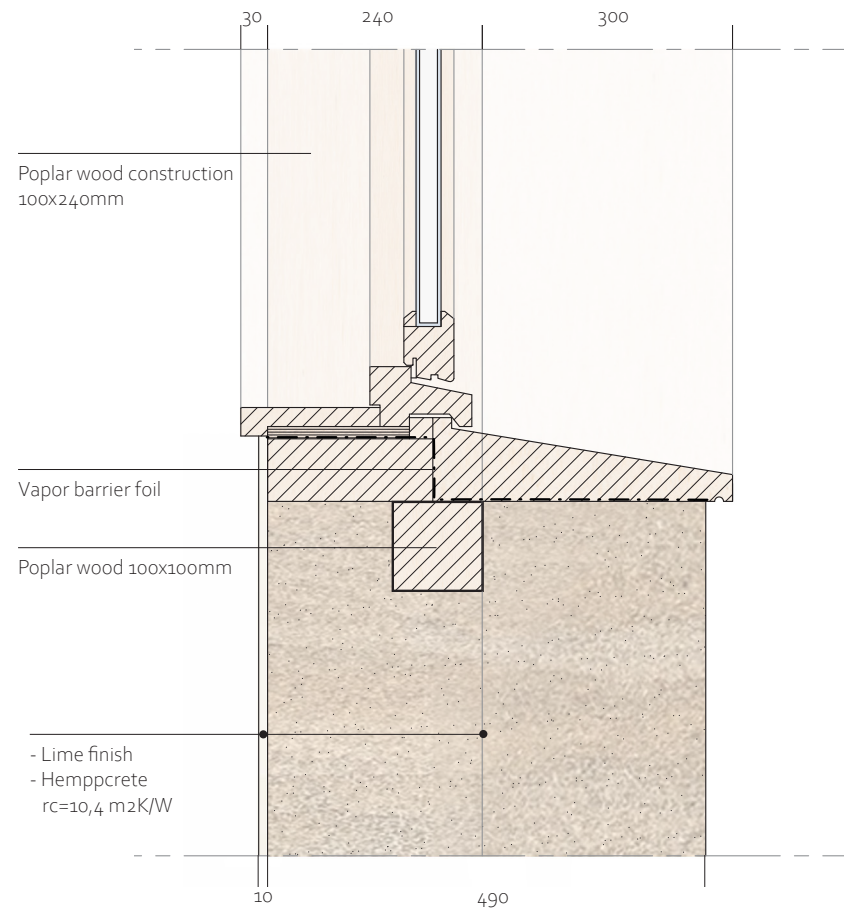
Facade



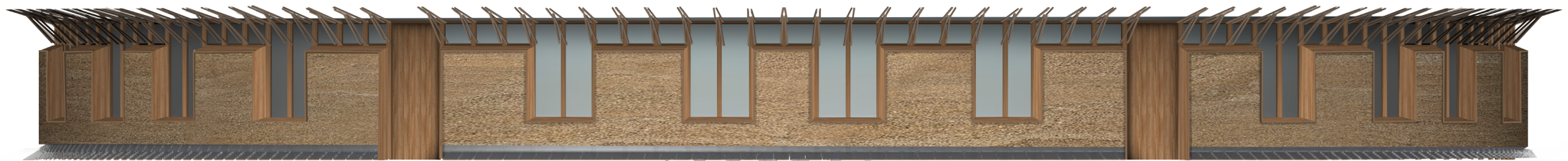
Floor detail



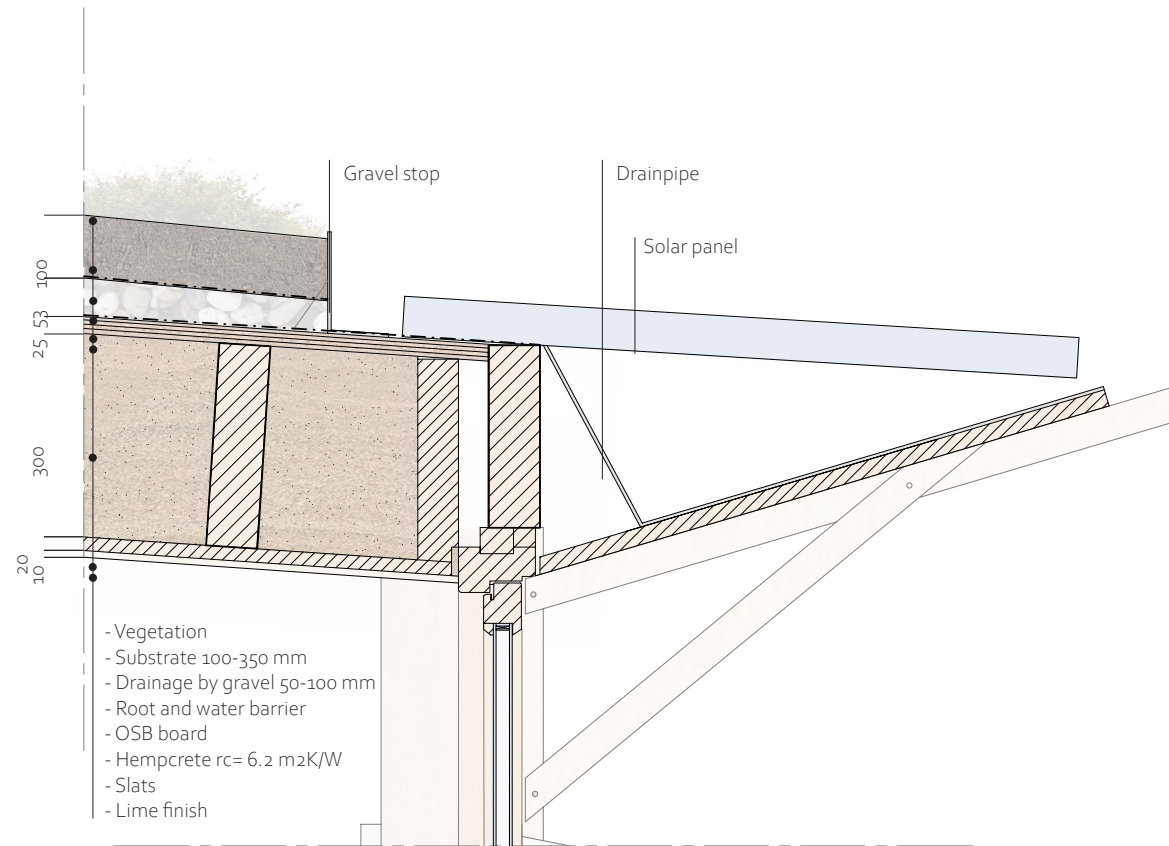
Facade



Window detail



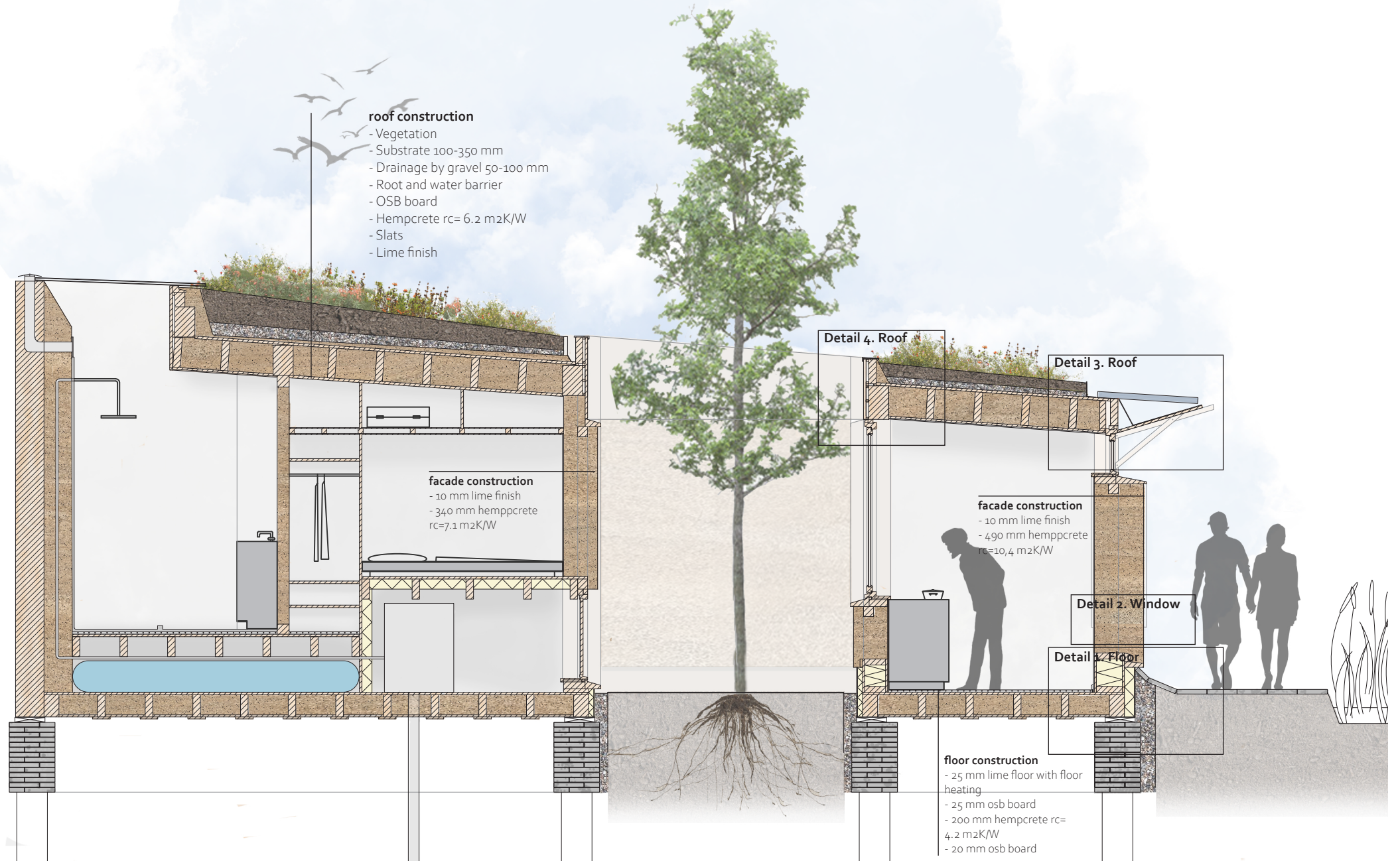
Facade

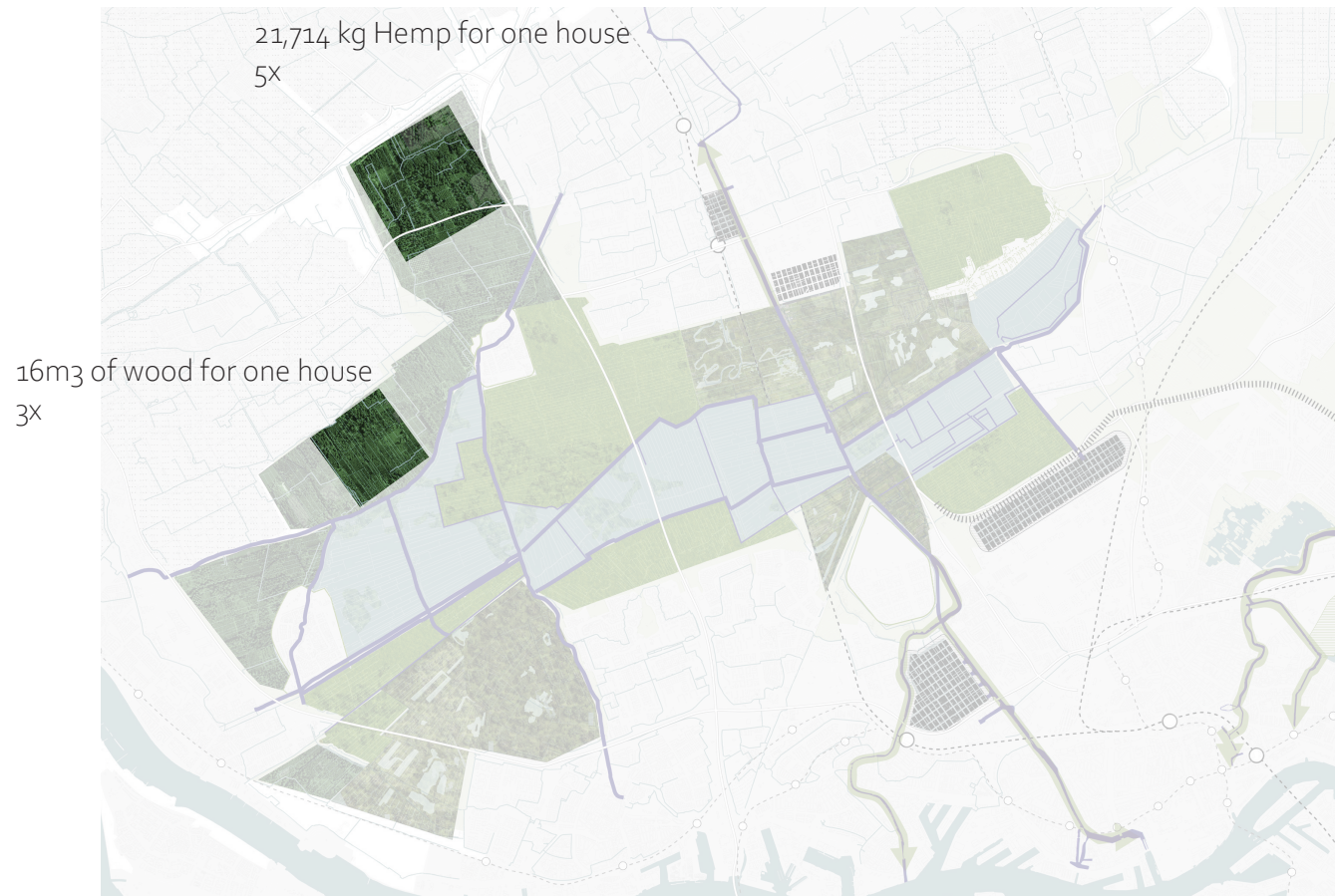


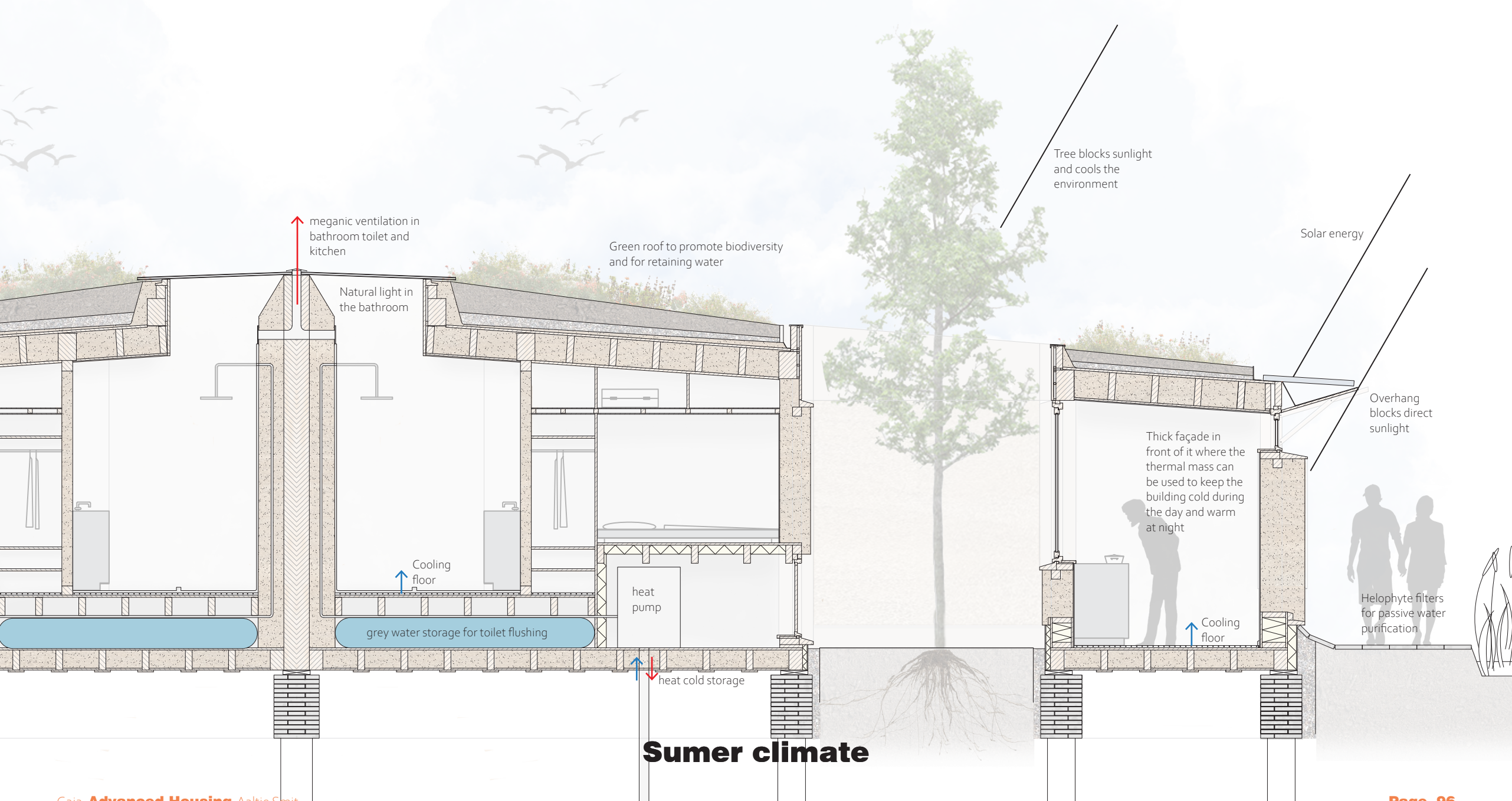
Roof detail



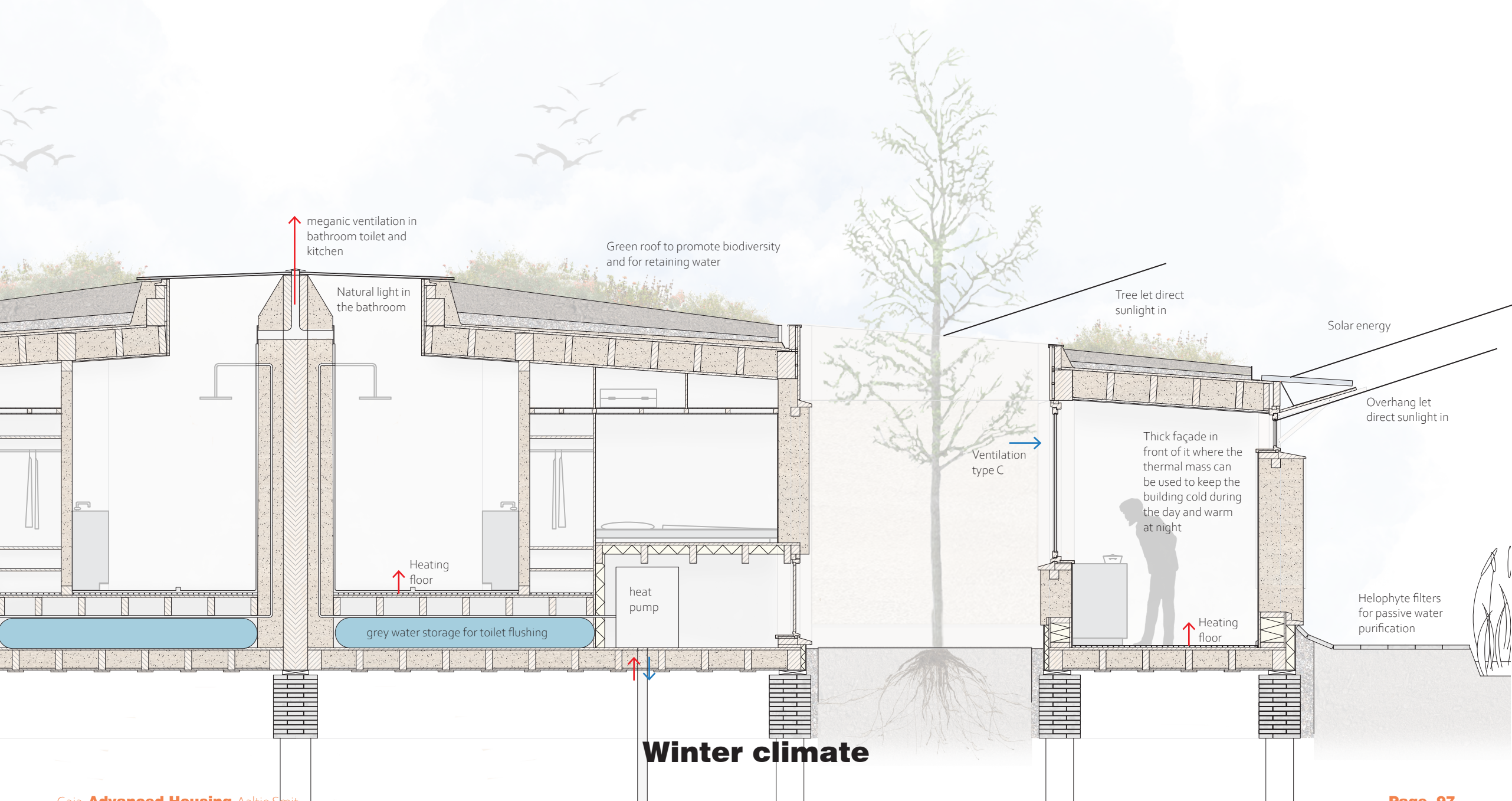
Facade

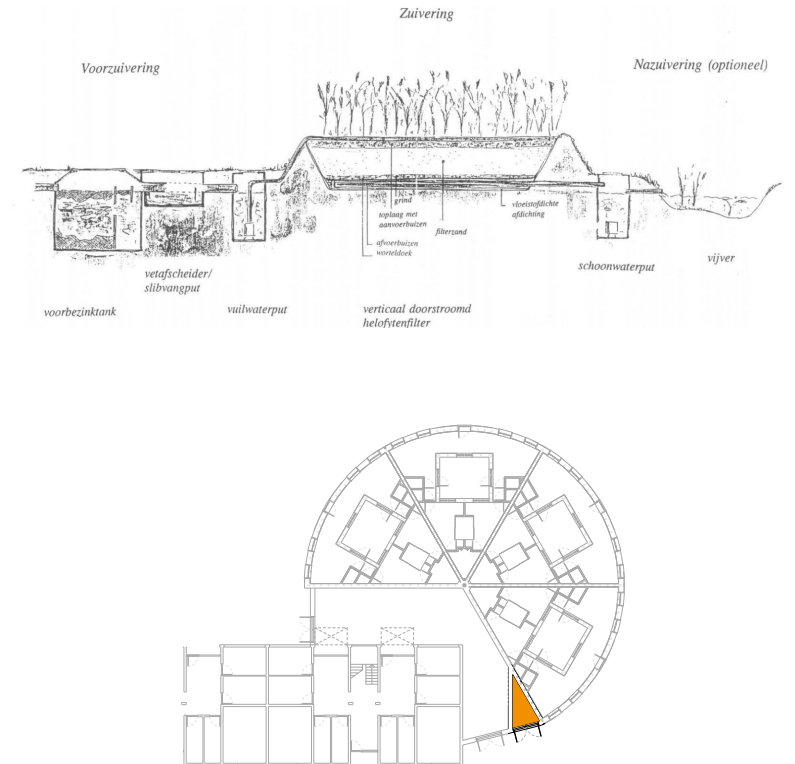
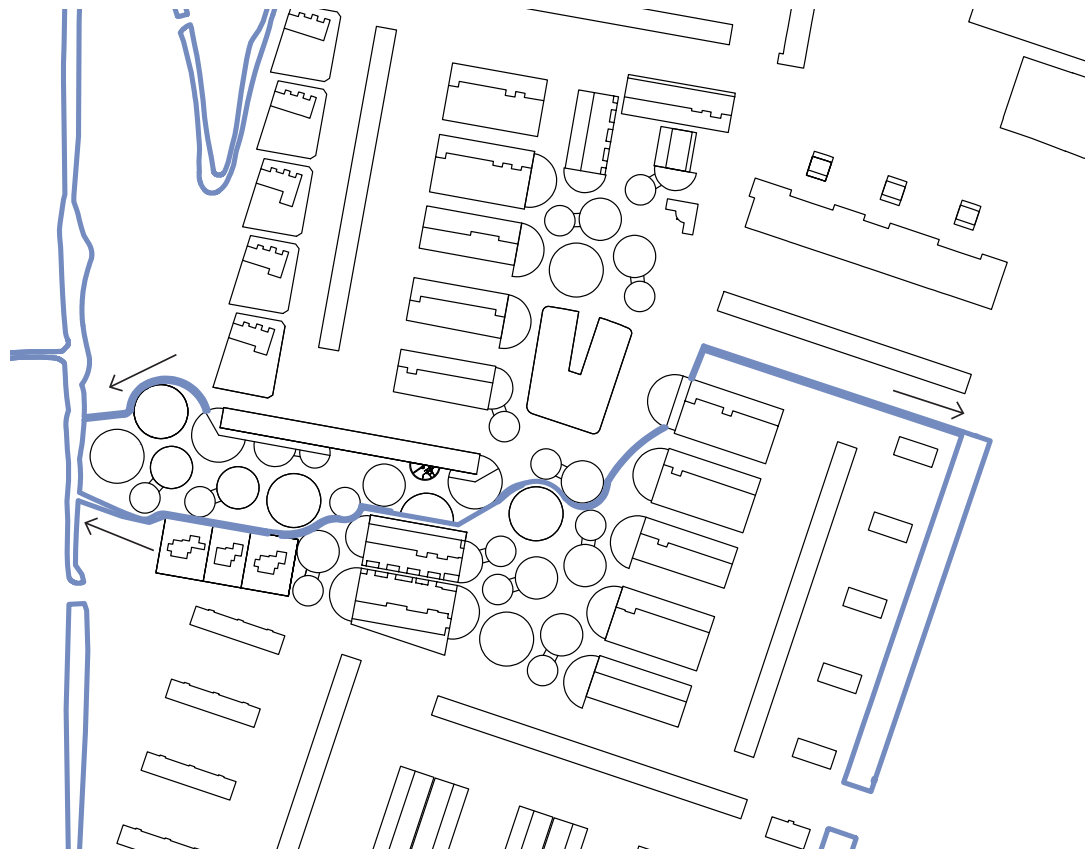






Sumer climate





Helophyte filters



Phases



Phases



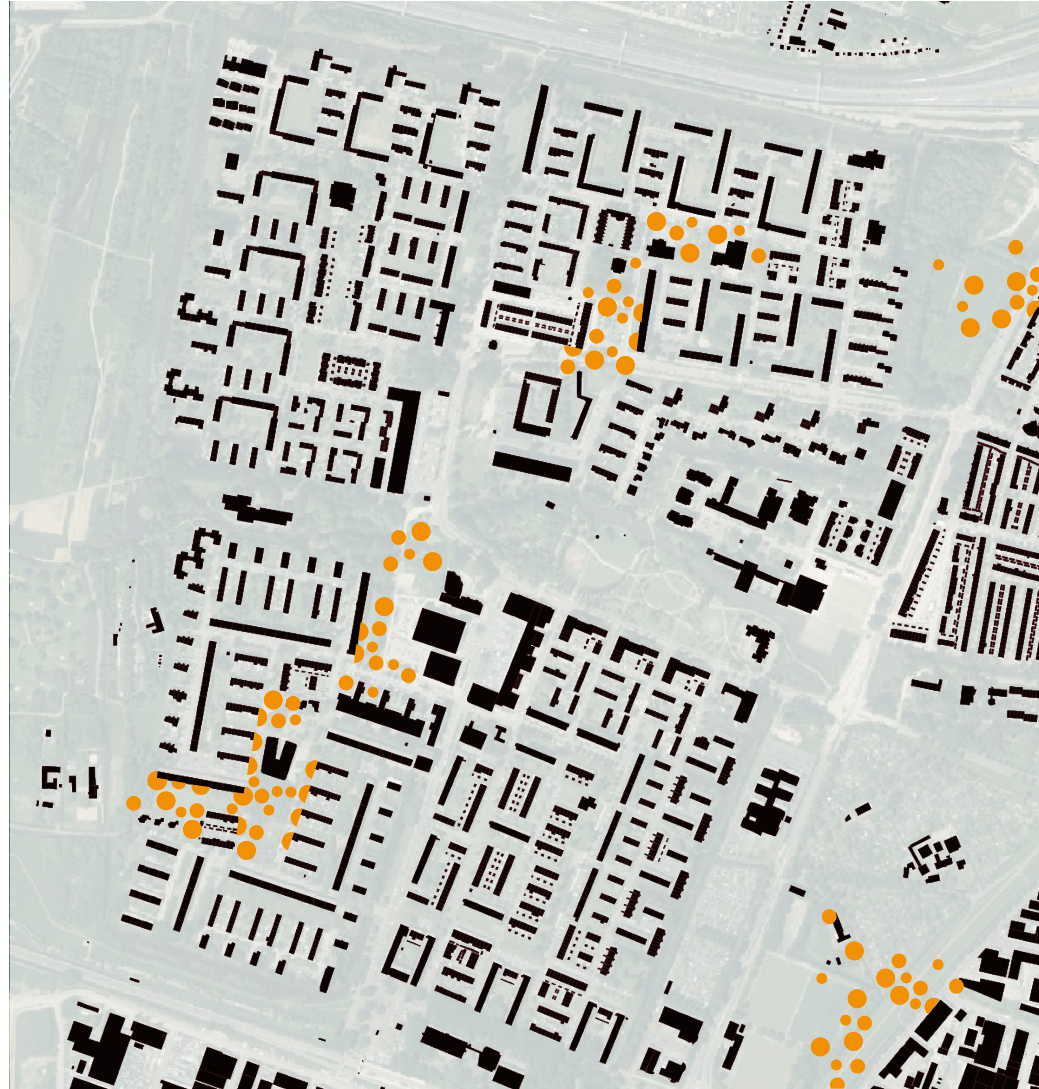
Phases



Phases



Phases



Phases

