



# DETOX LIFE SHARING COMMUNITY

A green connector

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Msc 4 Complex project | 2018-19  
P 5 31.10.2019

# NEET

**social  
reintegration**

**collective living  
+ working**

1

## INTRODUCTION

Assignment  
Future vision  
Future Amstel area

2

## RESEARCH

Increase of NEETs  
Treatment methods  
Project Ambition  
Site location

3

## DESIGN

Concept  
Individual level  
Building level  
Community level  
Urban level

4

## BUILDING TECHNOLOGY

Material  
Construction  
Climate



ASSIGNMENT

# ENVISION AMSTEL IN 2100







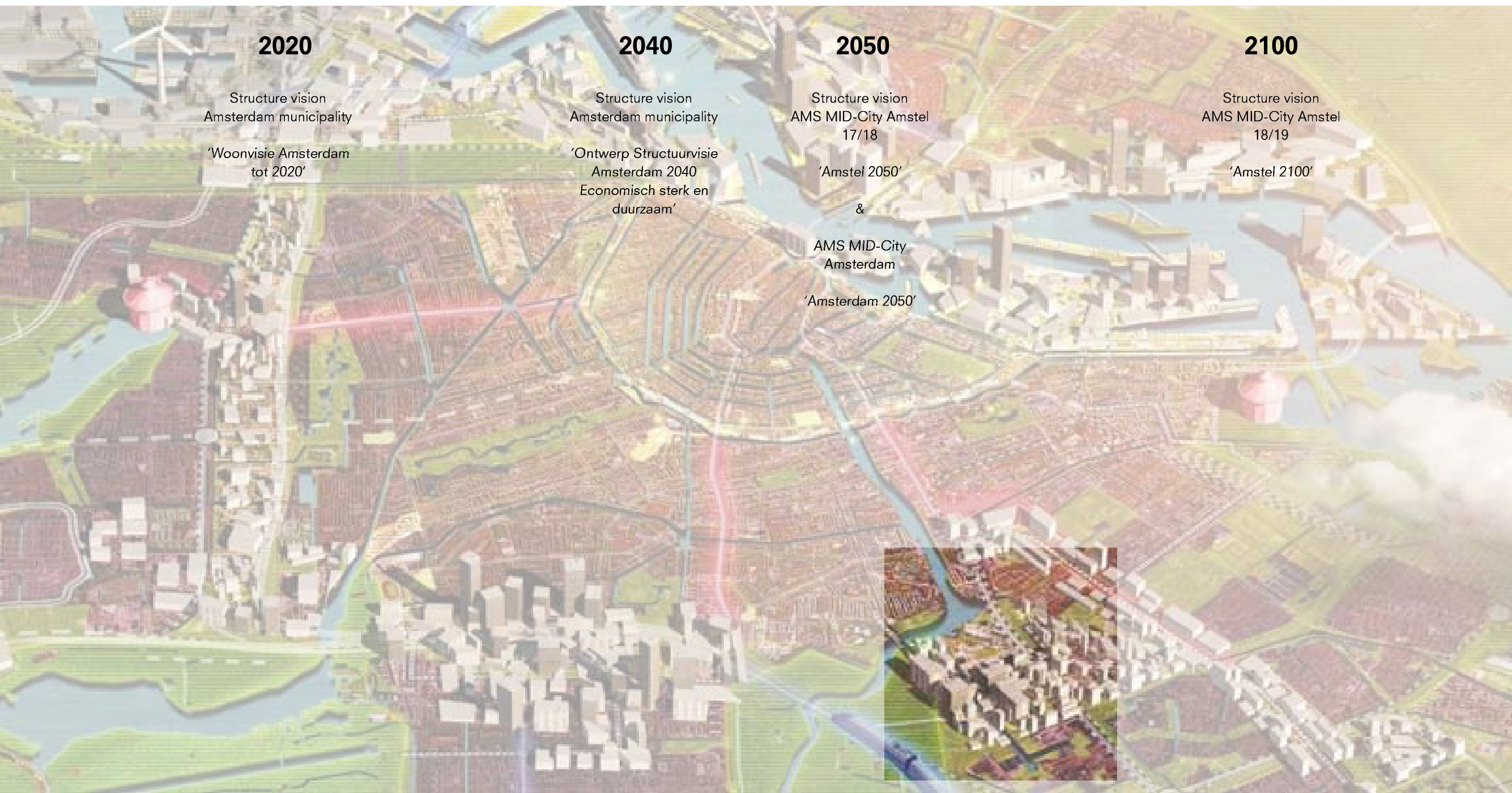
**History of industry production**



**Creative industry**



**Multi-functional  
residential area**





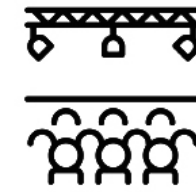
ARTIFICIAL  
INTELLIGENCE

MATERIAL

Present



MEDICAL  
TECHNOLOGY



**MATERIAL**

Present



**EXPERIENCE**

Future

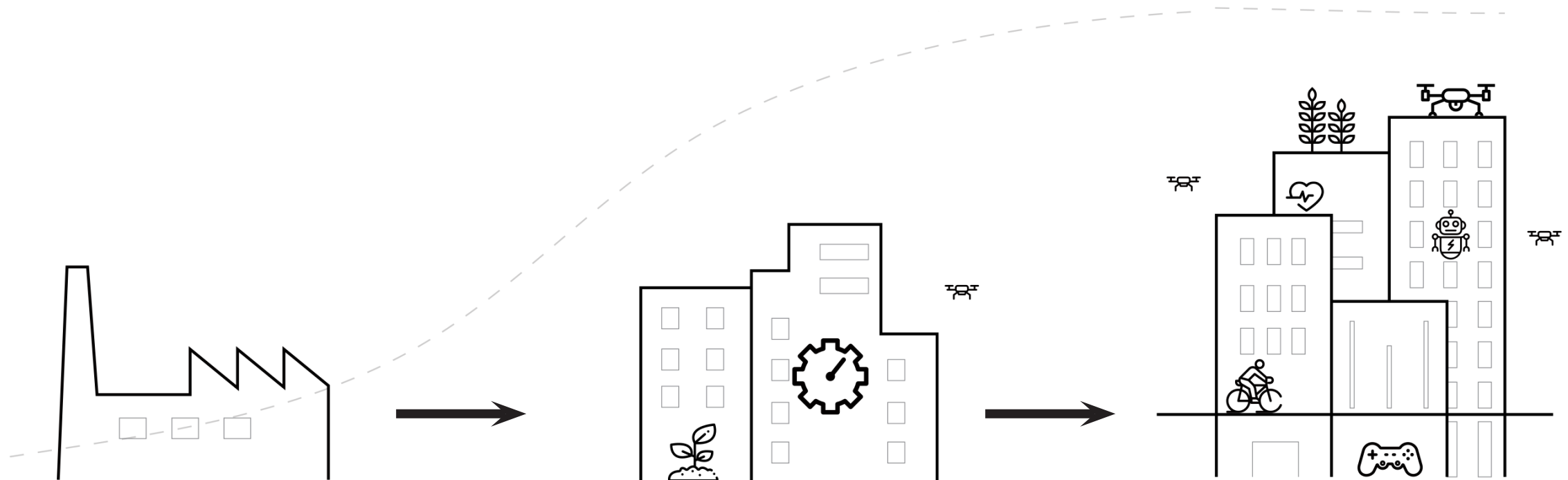




2018

2050

2100

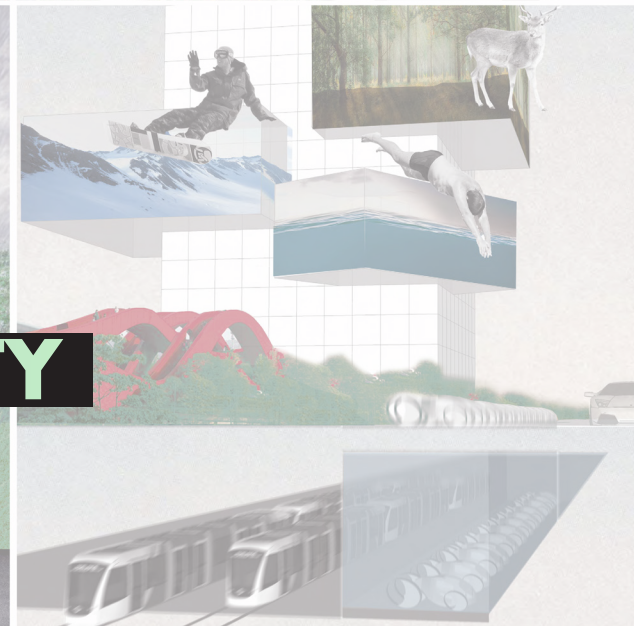
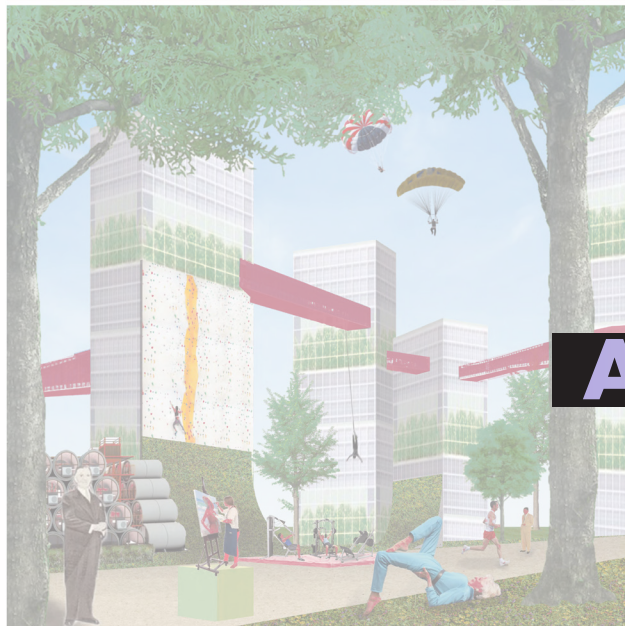
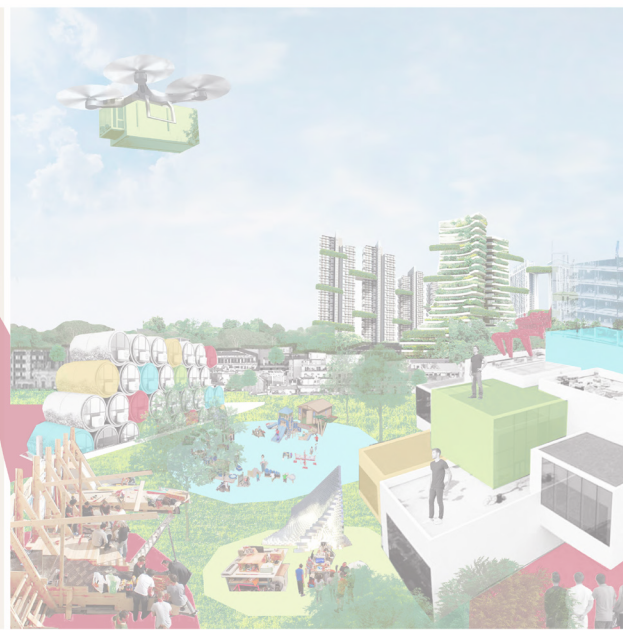


**INDUSTRIAL  
PRODUCTION**  
2018

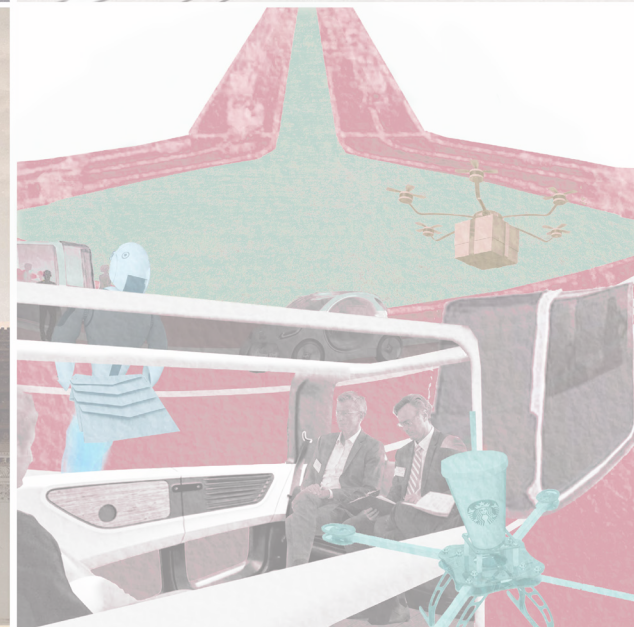
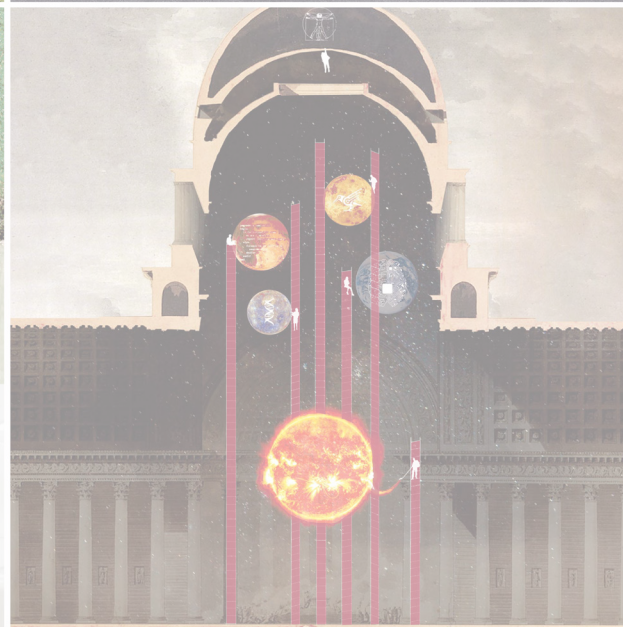
**CREATIVE  
PRODUCTION**  
2050

**(P)LEISURE  
PRODUCTION**  
2100





# AMSTEL 2100 A (P)LEISURE CITY





**(P)LEISURE SOCIETY**

**=**

**HAPPINIESS FOR ALL ?**

## CURRENT LOWER CLASS



**MONEY**



MEDICAL TECHNOLOGY



WELFARE

## FUTURE LOWER CLASS



**HARD & SOFT SKILLS**

# NEET



**“Not in Education, Employment,  
or Training”.**





**TECHNOLOGY ADDICTION**



FAST GROWING TECHNOLOGY



**SOCIAL ISOLATION**



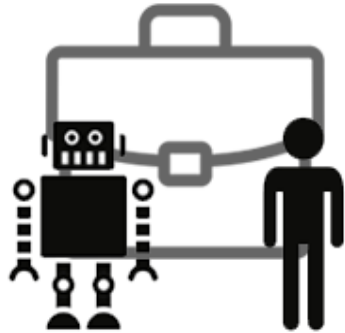
**TECHNOLOGY ADDICTION**



FAST GROWING TECHNOLOGY



**SOCIAL ISOLATION**



**CHANGE OF  
EMPLOYMENT MARKET**



ROBOTICS



ARTIFICIAL INTELLIGENCE



CLOUD COMPUTING



**UNEMPLOYMENT**



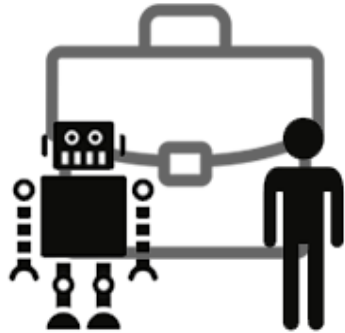
TECHNOLOGY ADDICTION



FAST GROWING TECHNOLOGY



SOCIAL ISOLATION



CHANGE OF  
EMPLOYMENT MARKET



ROBOTICS



ARTIFICIAL INTELLIGENCE



CLOUD COMPUTING



UNEMPLOYMENT



UNAFFORDABLE HEALTH



POOR, DENSE  
LIVING CONDITION



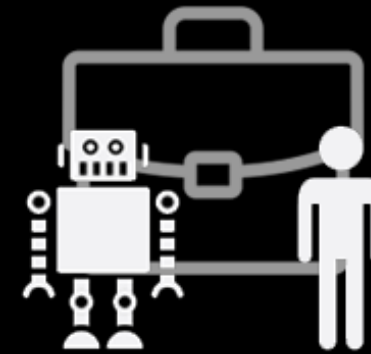
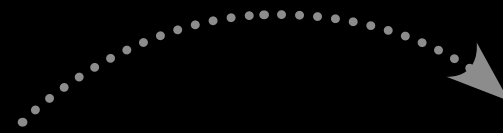
LOW QUALITY  
ENTERTAINMENT



PHYSICAL & MENTAL PROBLEMS



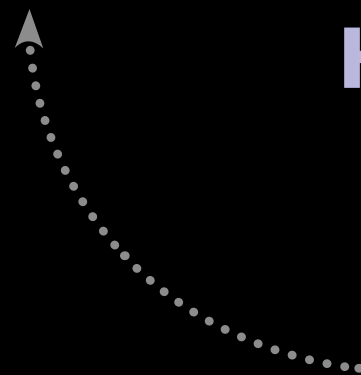
**TECHNOLOGY  
ADDICTION**



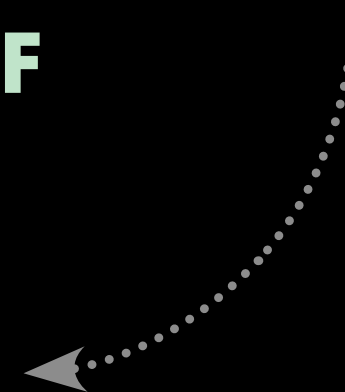
**CHANGE OF EM-  
PLOYMENT MARKET**



**HUGE NUMBER OF  
FUTURE NEEDS**



**UNAFFORDABLE  
HEALTH**





## **RESEARCH QUESTION**

**How to heal and re-integrate NEETs into future society, by a new architectural typology that offers self-development opportunities and thus improves their physical and mental health?**



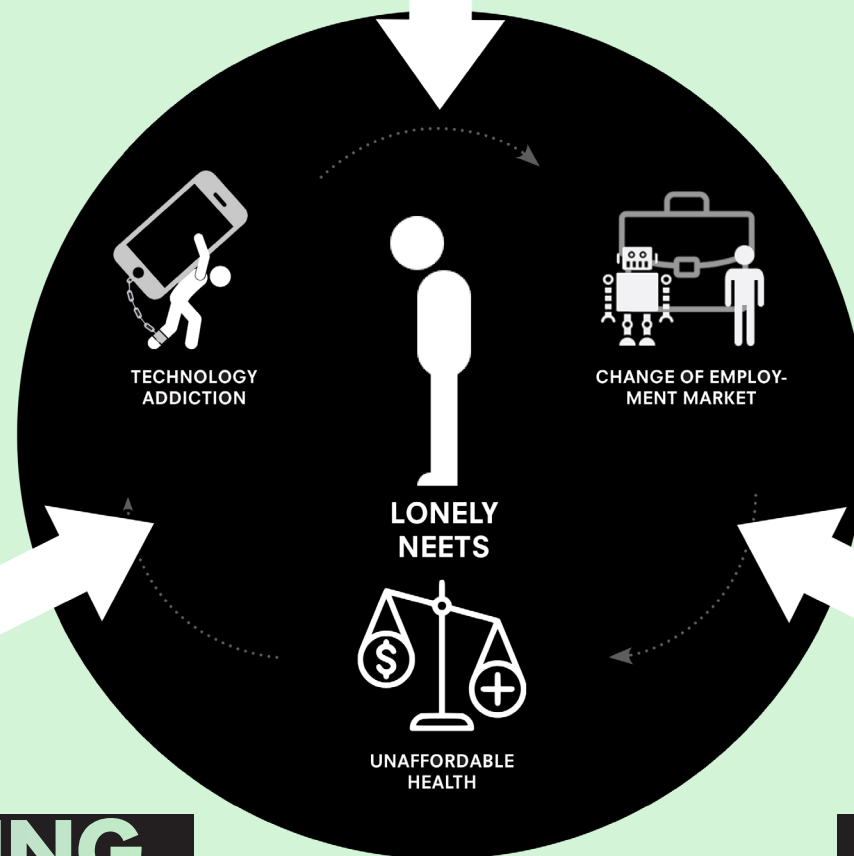


# PSYCHOSOCIAL REHABILITATION COMMUNITY





**COLLECTIVE LIFESTYLE**



**SKILL TRAINING**

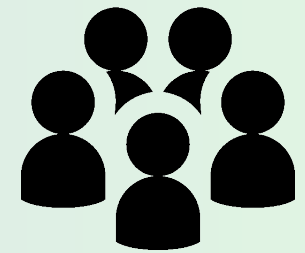


**THERAPY**

# TREATMENT MEASURES

01

Collective living & working  
as a therapy



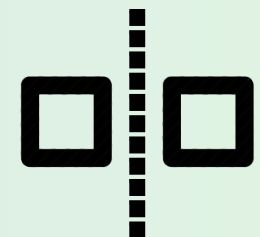
02

Green as a cure



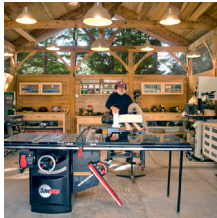
03

Separation between  
patients of different stages

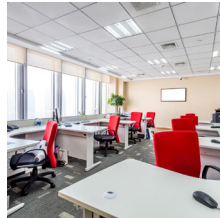


# 01

## Collective living & working as a therapy



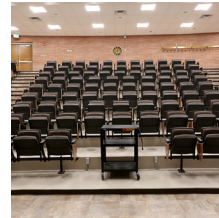
workshop



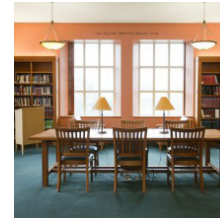
office



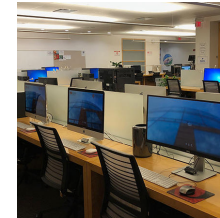
studio &  
gallery



lecture hall



study room



technology  
zone



communal  
farm

.....

- SOCIAL SKILLS
- OCCUPATIONAL SKILLS
- SELF ESTEEM

Source: Foundation House, New York; ReStart, Fall City, WA

# 02

## Green as a cure



**HEALING  
ENVIRONMENT**



**OUTDOOR  
ACTIVITIES**



**URBAN  
FARMING**

Source: Foundation House, New York; ReStart, Fall City, WA



# AMSTEL'S URBAN FARMING CULTURE

- 1. Sustainability + green environment**
- 2. Collective working to enhance communal bond**
- 3. Economic profits & giving back to society**



Garden village Frankendael (Jerusalem).<sup>11</sup>



Allotment park Amstelhof.<sup>12</sup>



H.C. Vink school garden in park Frankendael.<sup>13</sup>



Allotment park Klein Danzig in park Frankendael.<sup>14</sup>

# 03

## Separating patients of different stages

MOST SERIOUS  
STAGE 1

up to  
2 years



- CLOSE TO GREEN
- RELAXED ENVIRONMENT
- SMALL RANGE  
SOCIALIZATION

# 03

## Separating patients of different stages

MOST SERIOUS  
STAGE 1

up to  
2 years



- CLOSE TO GREEN
- RELAXED ENVIRONMENT
- SMALL RANGE  
SOCIALIZATION

LESS SERIOUS  
STAGE 2

2 - 6  
months



- STRONG SENSE OF COMMUNITY
- COLLECTIVE WORKING &  
LEARNING
- REASONABLE EXPOSURE  
TO PUBLIC

# 03

## Separating patients of different stages

MOST SERIOUS  
STAGE 1

up to  
2 years



- CLOSE TO GREEN
- RELAXED ENVIRONMENT
- SMALL RANGE  
SOCIALIZATION

LESS SERIOUS  
STAGE 2

2 - 6  
months



- STRONG SENSE OF COMMUNITY
- COLLECTIVE WORKING &  
LEARNING
- REASONABLE EXPOSURE  
TO PUBLIC

BACK TO NORMAL  
STAGE 3

/

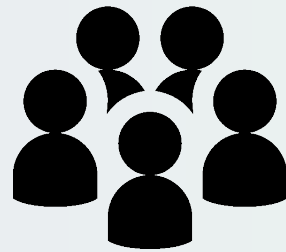
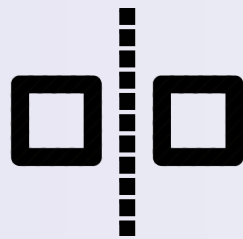


- TECHNOLOGY BEHAVIOR  
RELATED CLINIC

Project  
ambition

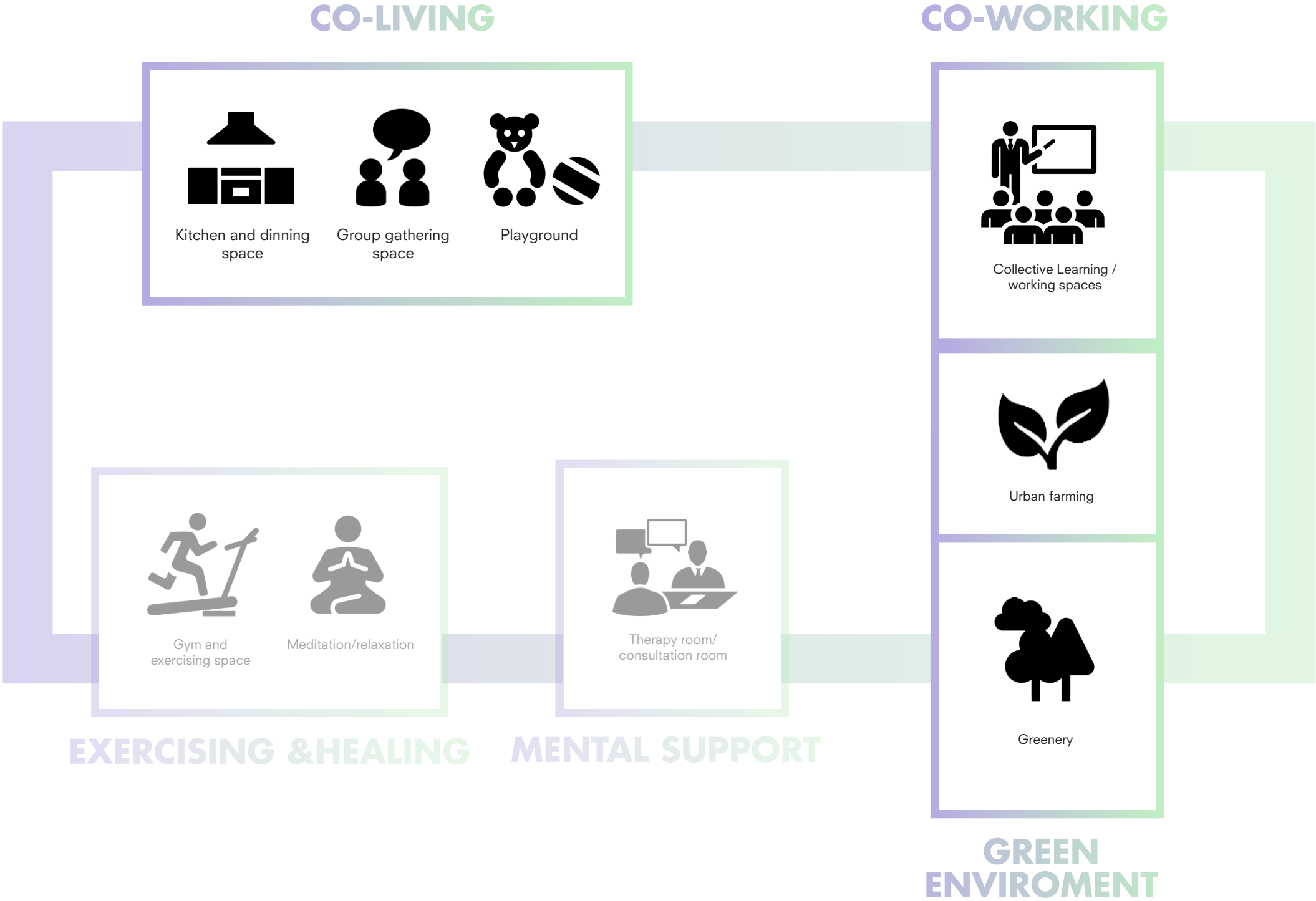
# Future Detox Life-sharing Community for NEETs

Future social housing + welfare



- Two stages of dwellings
- Collective living & working as therapy
- A green lifestyle

# PROGRAM SUMMARY



# Site location





**CLOSE TO GREEN**

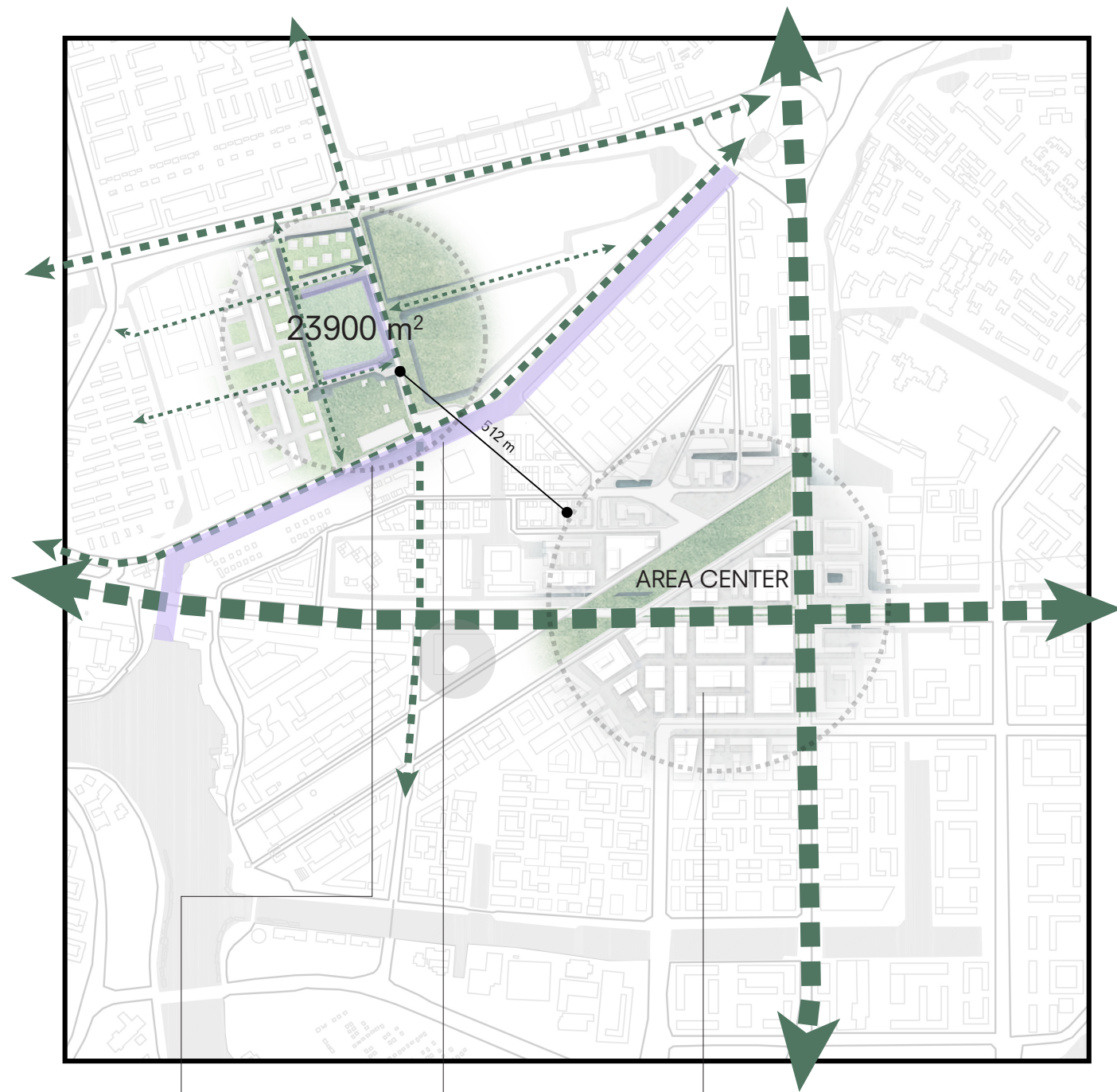


**LOW-INCOME  
GROUP**



**GOOD  
ACCESSIBILITY**

## ACCESSIBILITY & BARRIER



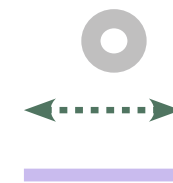
SPORTS & GREEN



RIVER AS A BARRIER



COMMERCIAL & LEISURE



Transit hub

Active traveling route

Water body

## INBETWEEN TWO TYPES OF “GREEN ENVIRONMENT”



URBAN FARMING AS  
LOCAL TRADITION

SURROUNDED BY  
WATER

WALKING DISTANCE  
TO AMSTEL RIVER

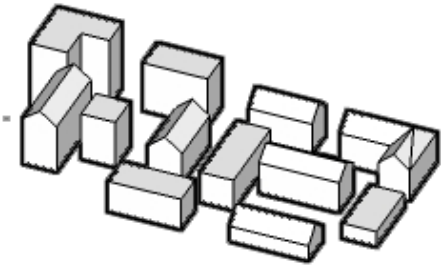


VARIOUS TYPES  
OF SPORTS FIELD

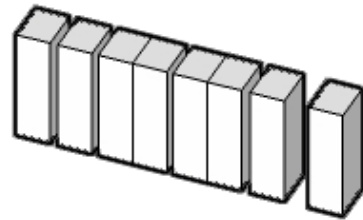
# Design process



# CONCEPT

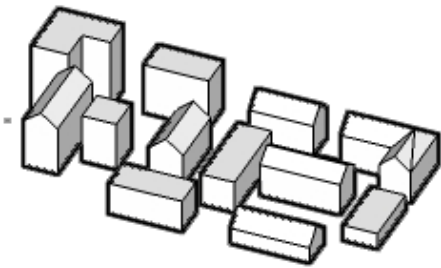


+

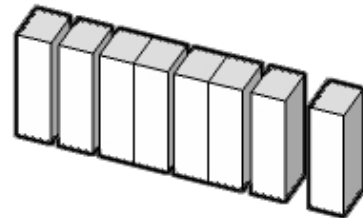


**TWO STAGES OF DWELLING**

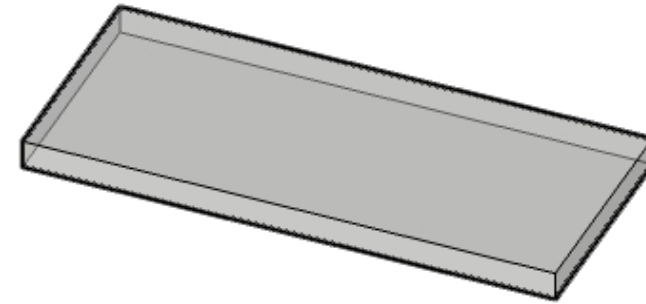
# CONCEPT



+

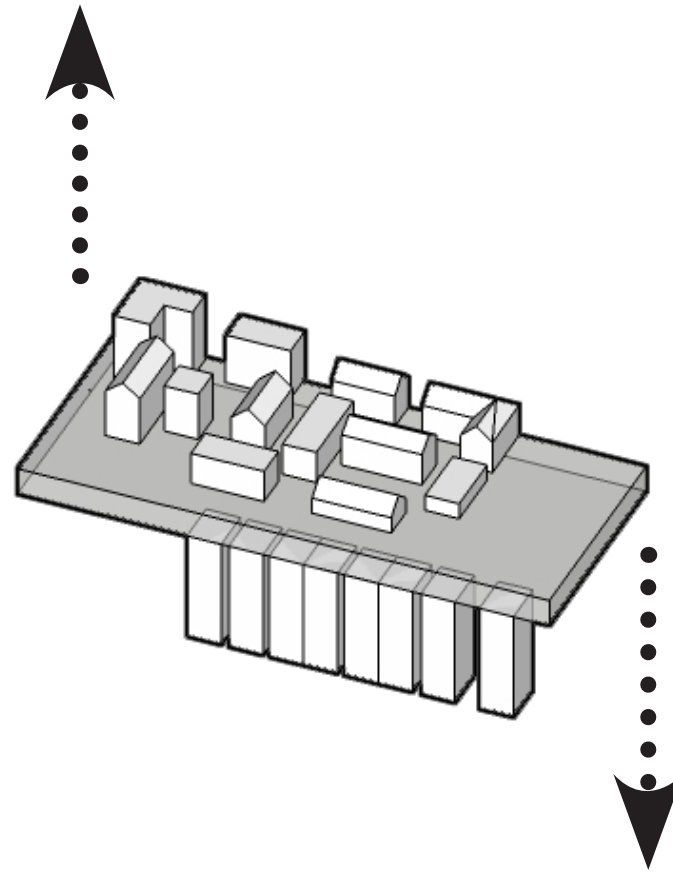


**TWO STAGES OF DWELLING**



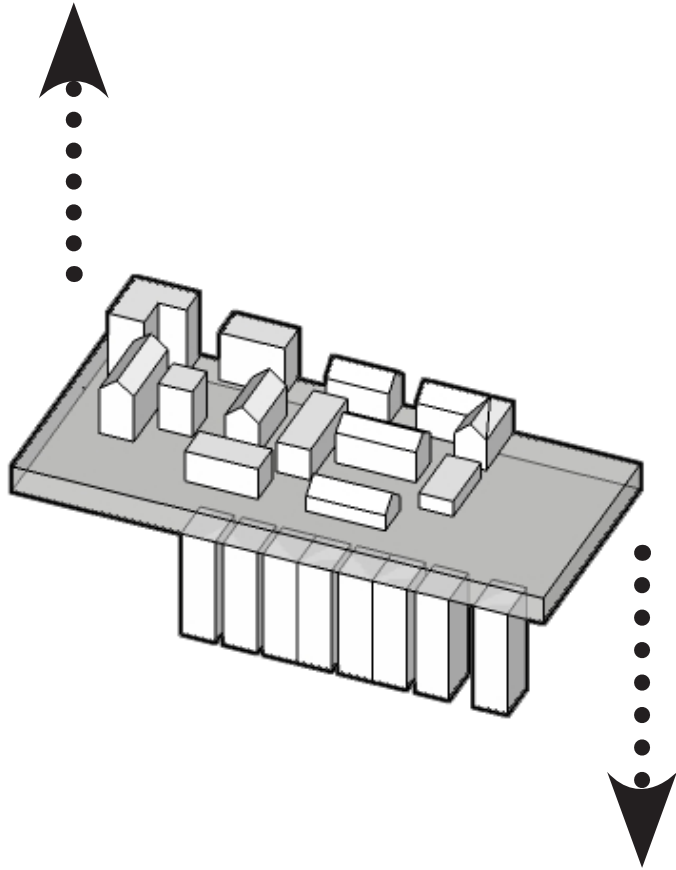
**A PLATFORM AS CONNECTION**

# CONCEPT

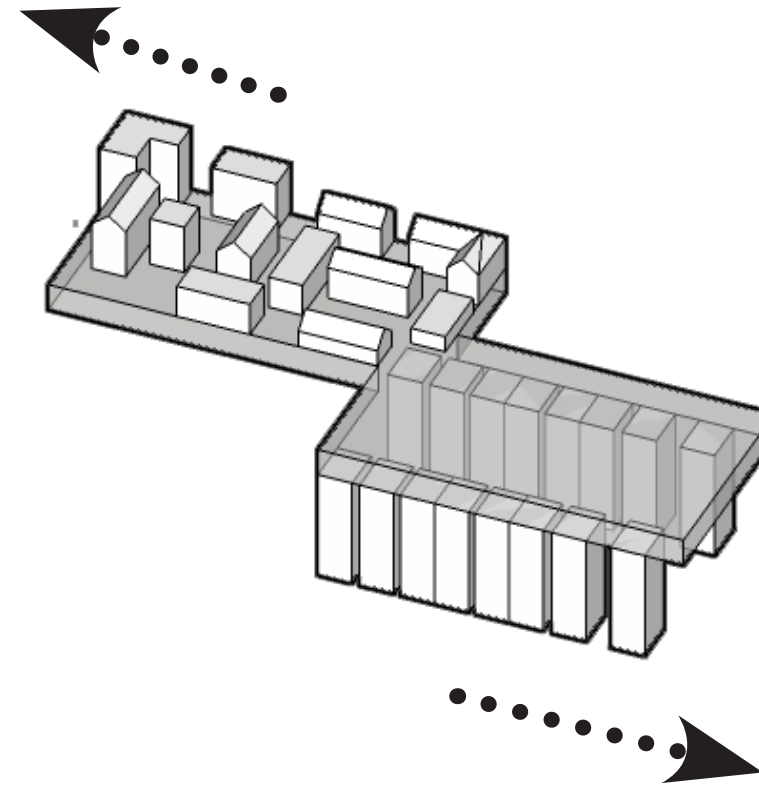


**SEPARATED BY HEIGHTS**

# CONCEPT



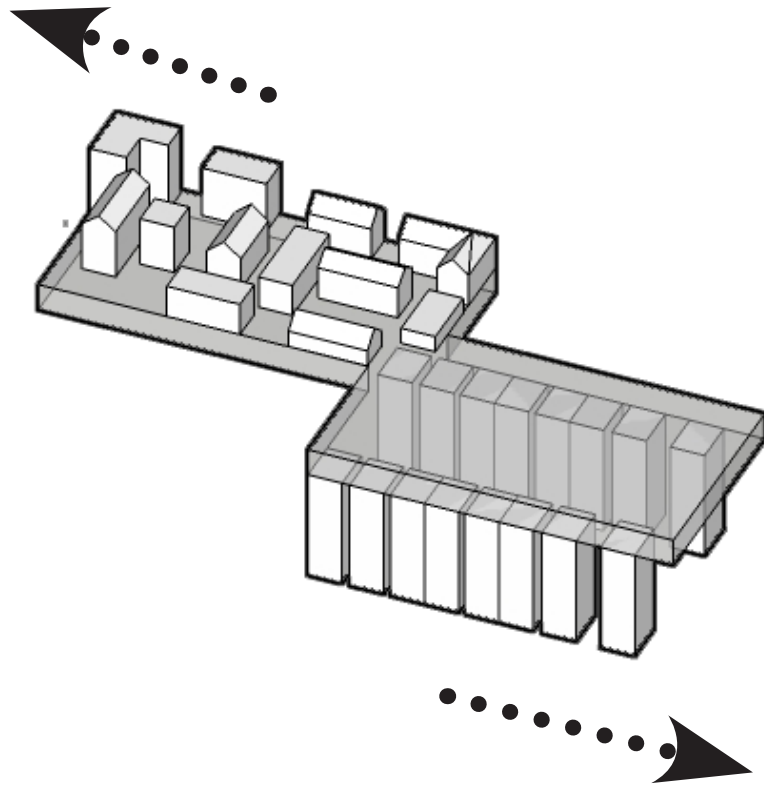
**SEPARATED BY HEIGHTS**



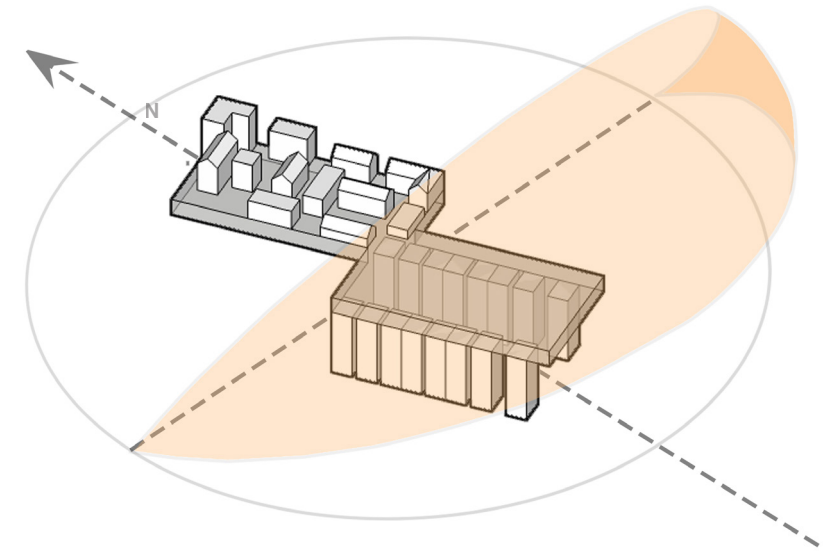
**SHIFT TOWARDS TWO DIRECTIONS**



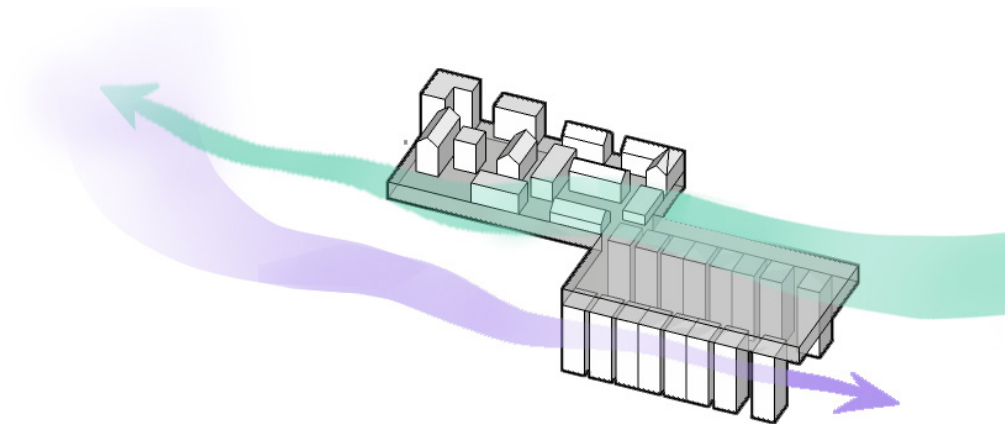
# CONCEPT



**SHIFT TOWARDS TWO DIRECTIONS**



**Sun direction**



**Inbetween communal housing area & sports field:  
Different experience**

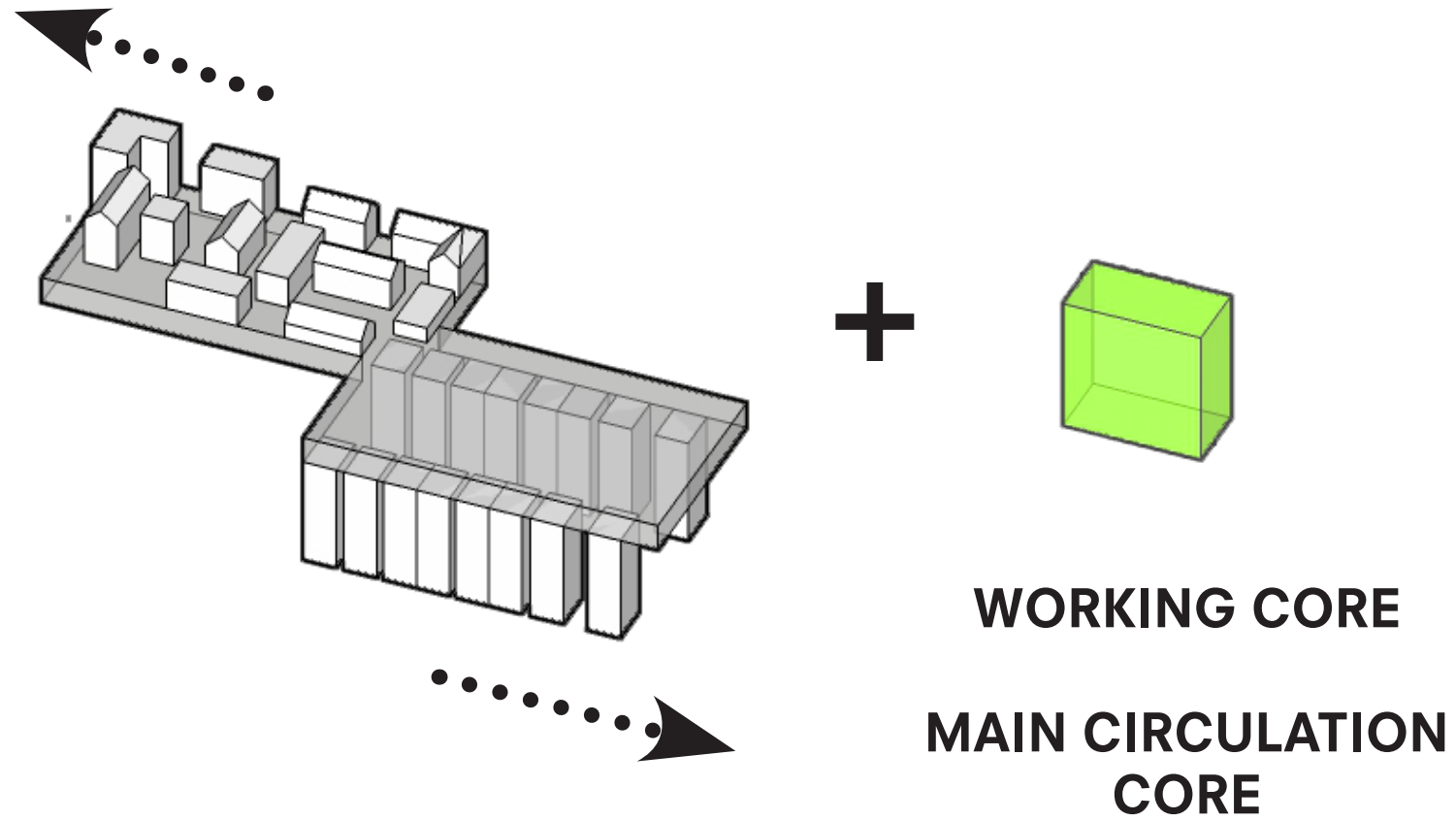


**OUTDOOR**



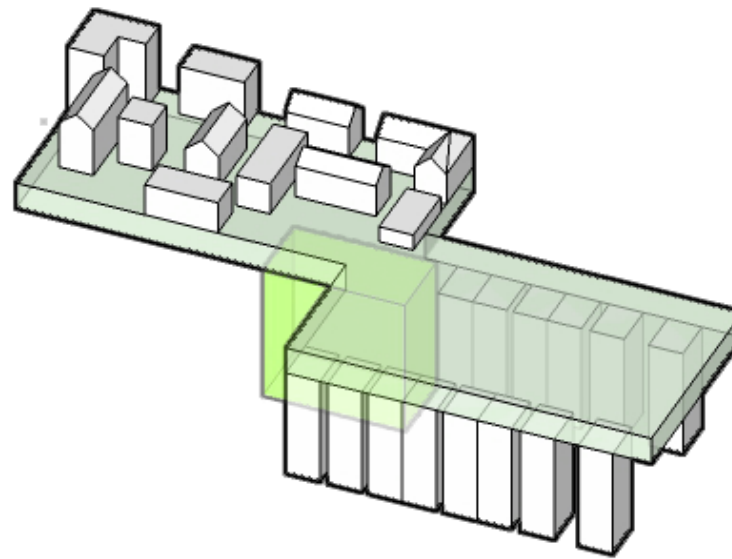
**INDOOR**

# CONCEPT



**SHIFT TOWARDS TWO DIRECTIONS**

# CONCEPT



**PLATFORM AS A  
WORKING + LEISURE  
SPACE**



# INDIVIDUAL LEVEL



TWO STAGES OF RESIDENTS & WHAT KIND OF LIVING EXPERIENCE THEY NEED

# BUILDING LEVEL



HOW TO INTEGRATE VARIOUS FUNCTIONS

# COMMUNITY LEVEL



HOW TO BLEND IN THE LOCAL COMMUNITY

# URBAN LEVEL



HOW TO RECONCILE BETWEEN DIFFERENT AREAS



# INDIVIDUAL LEVEL

Two types of  
collective living units



**STAGE 1 ( MORE  
SERIOUS)**

## VILLAGE

GREENERY  
+  
COMMUNAL CENTER



**STAGE 2 ( LESS  
SERIOUS)**

## COMPACT DWELLING

COMPACT LIVING  
+  
COMMUNAL SPACE  
+  
WORKING SPACE

# VILLAGE

ANCIENT HISTORY



One of the earliest type of collective living



Exposure to green + cultivation

MODERN DAYS

1960s



Western Europe has been suburbanizing strongly since 1965. Virtually all major metropolitan area growth has been in the suburbs.

Tranquility, an escape

1967



Modern co-living village

1976

Netherlands: First co-living project. There are more than 300 cohousing communities in the Netherlands (73 mixed-generation and 231 senior cohousing).

Denmark: journalist Bodil Graae: families should share child-care duties, is widely attributed with having spurred 50 families to organize Sættedammen

2000s



Children's Center for Psychiatric Rehabilitation, Hokkaido

A method for mental recovery

FUTURE



EFFEKT designs ReGen Villages that could produce all their own food and energy

Sustainable lifestyle



SPACE10 designed the Urban Village to envision future collective living

"Urban utopia"

# STAGE 1



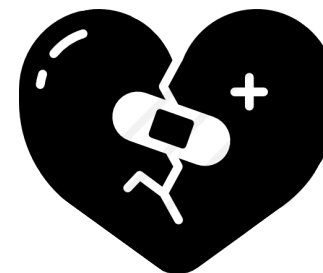
LOOSE & RELAXING



GREEN & CULTIVATION



ESCAPE FROM URBAN ENVIRONMENT

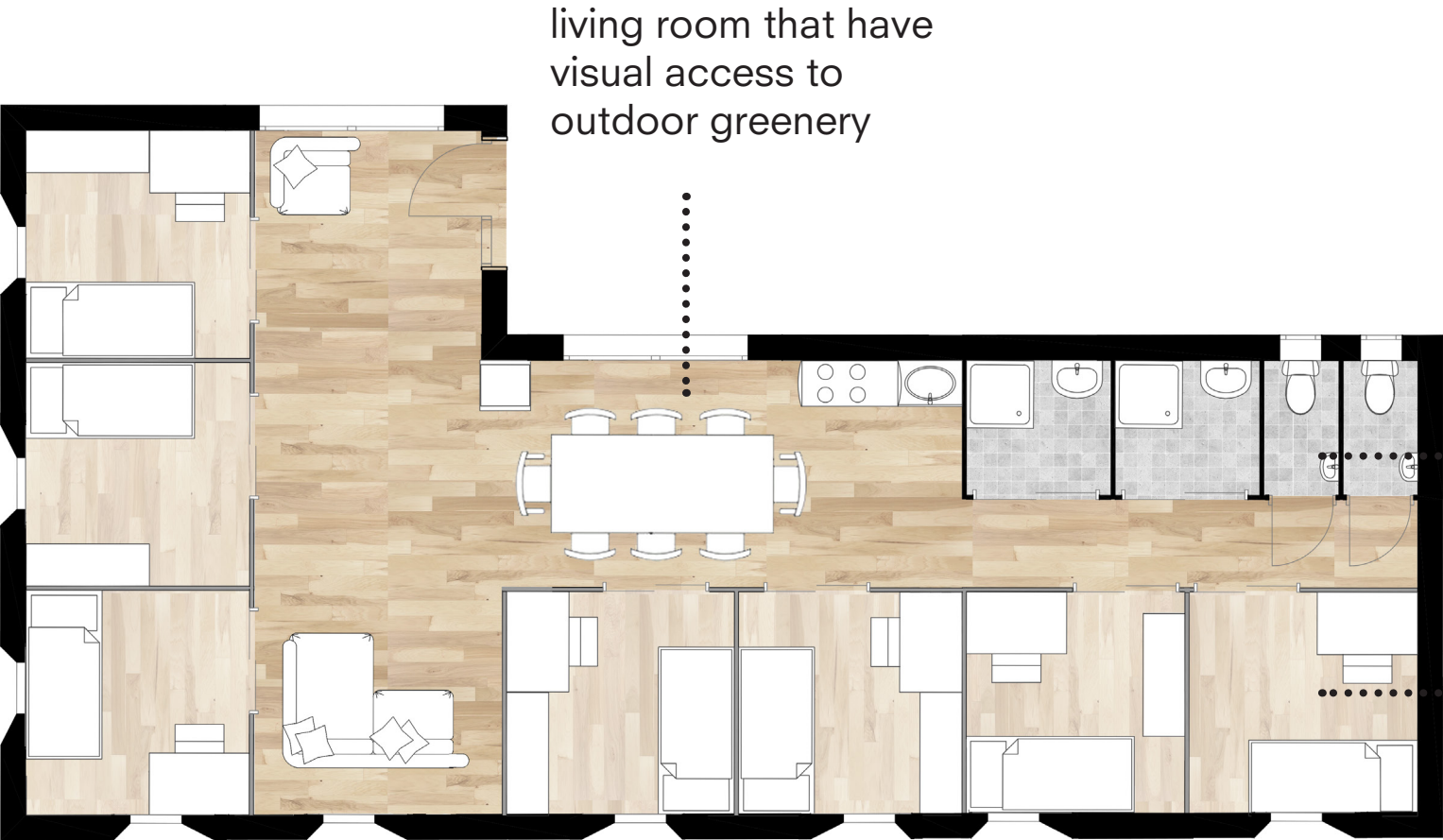


HEALING EFFECT FOR MENTAL HEALTH



# VILLAGE

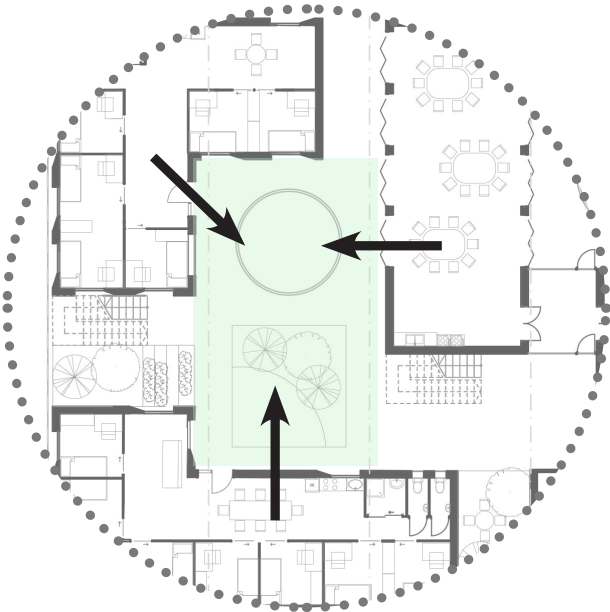
## STAGE 1 HOUSING



living room that have  
visual access to  
outdoor greenery

..... shared bathroom  
and kitchen

..... individual space with  
sliding door



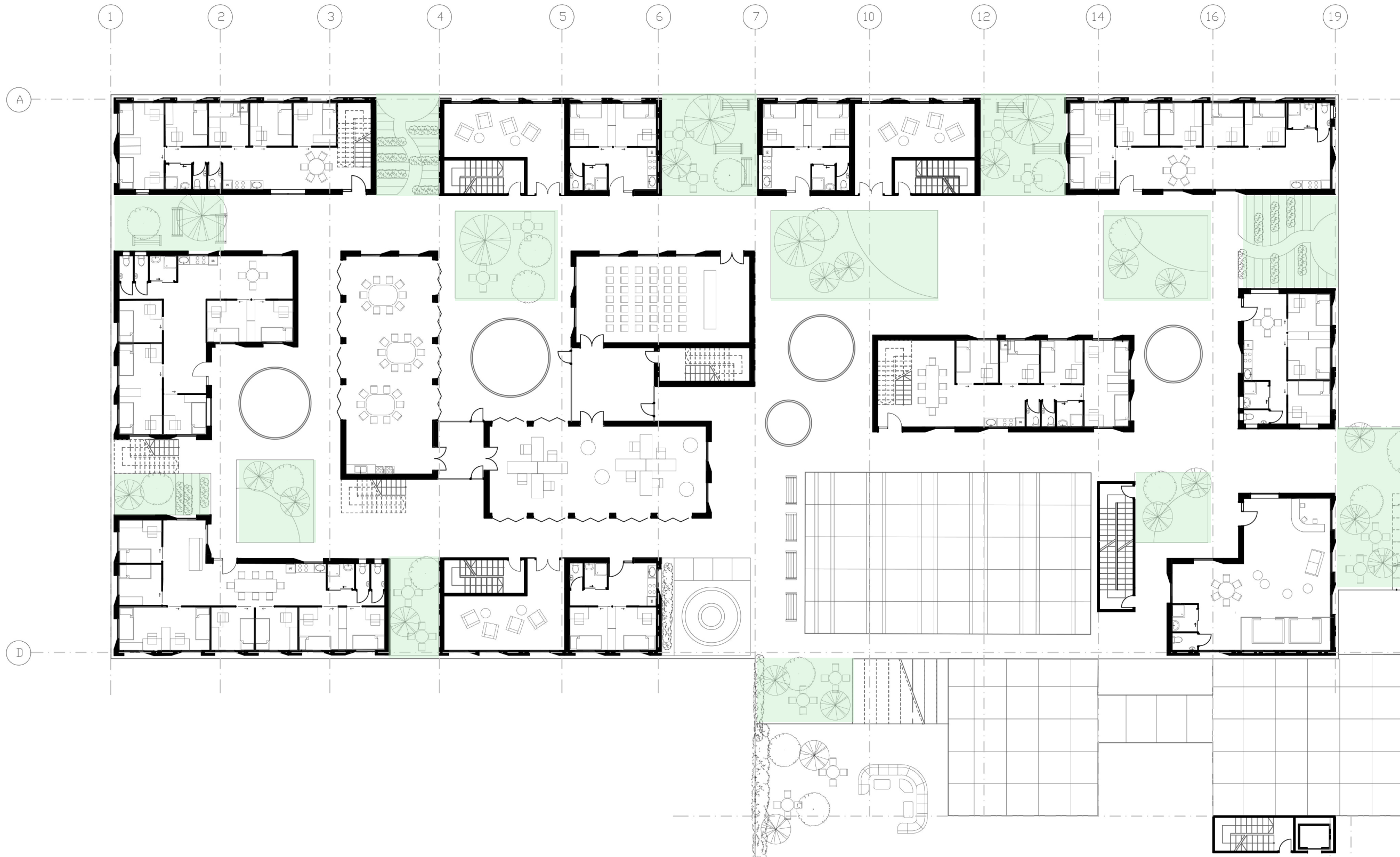
Organized around greenery and  
skylight towards downstairs







# ORGANIZATION



# STAGE 2



More residents



More privacy



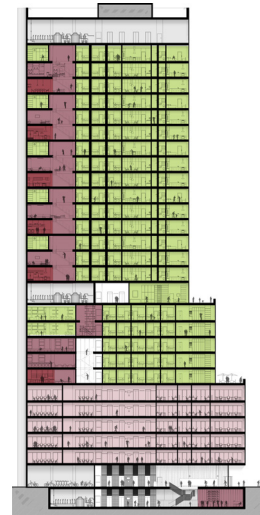
Stronger focus on  
working + learning



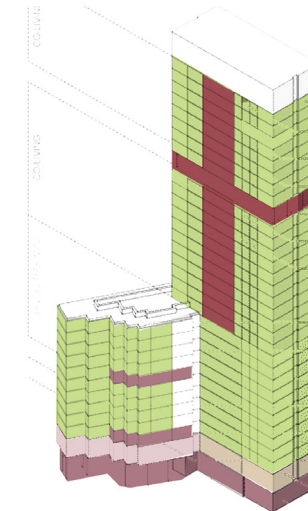
Transitional stage between  
NEETs' and normal people's life



WELIVE 110 WALL STREET, NEW YORK



THE COLLECTIVE, STRATFORD



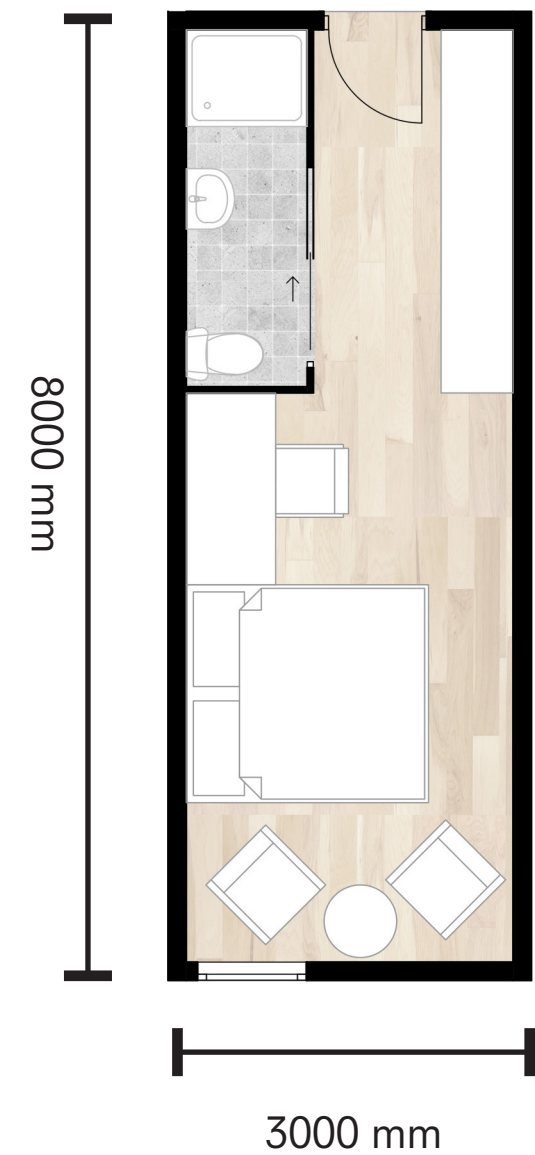
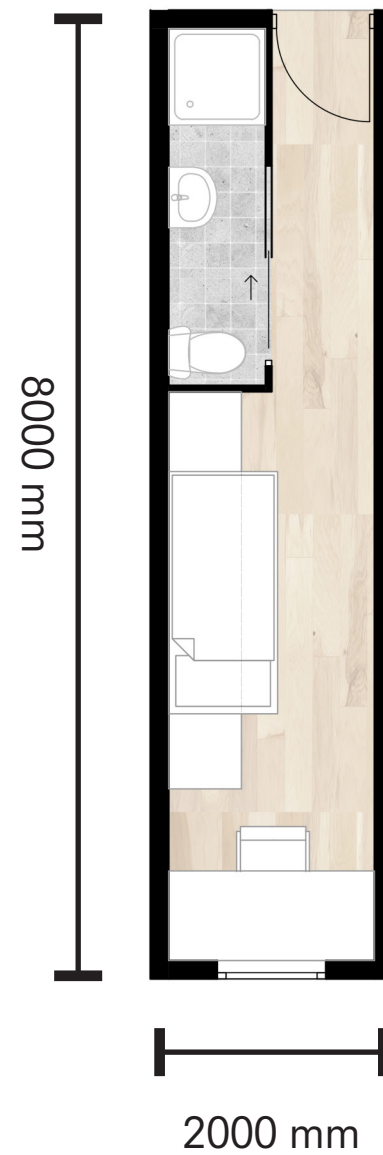
INDIVIDUAL  
ROOMS

+

SHARED  
COMMUNAL  
FUNCTIONS

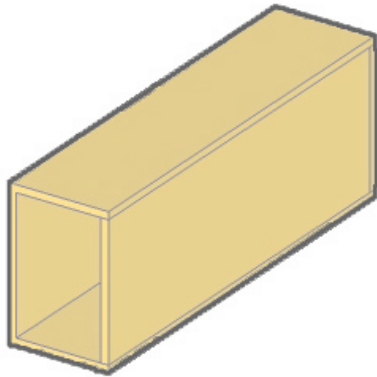
# COMPACT DWELLINGS

## STAGE 2 HOUSING

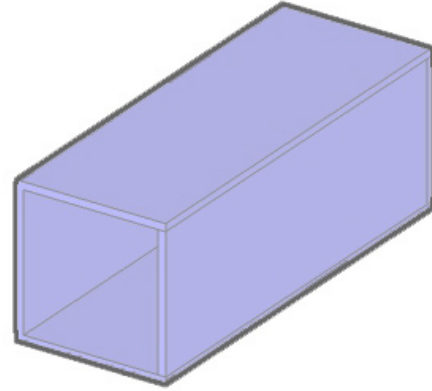




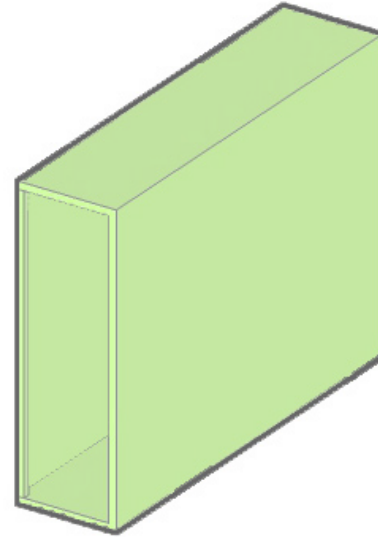
# 4 TYPES OF BLOCKS



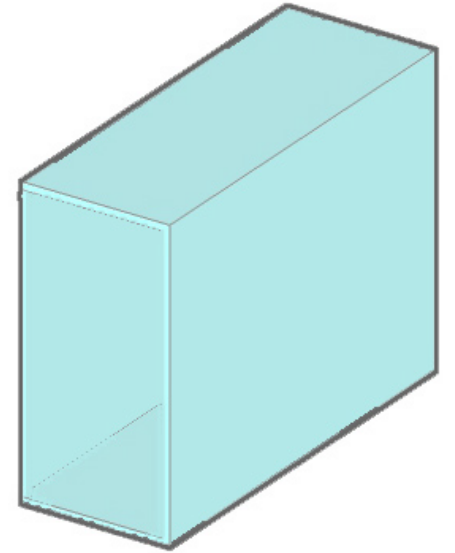
2m(L) x 8m(W) x 3m(H)



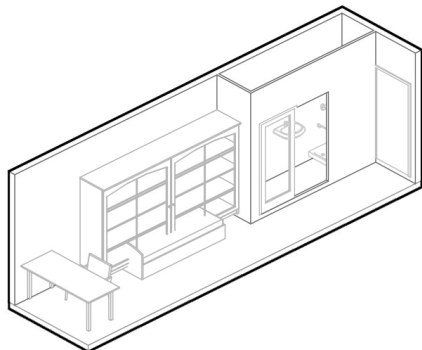
3m(L) x 8m(W) x 3m(H)



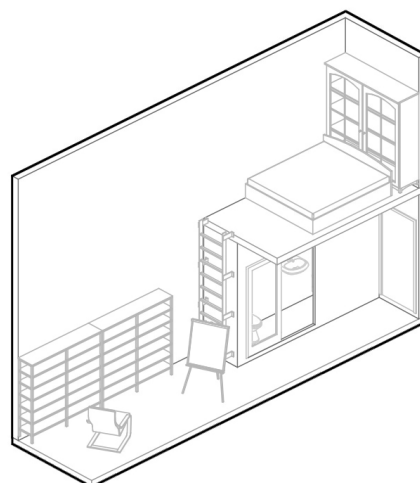
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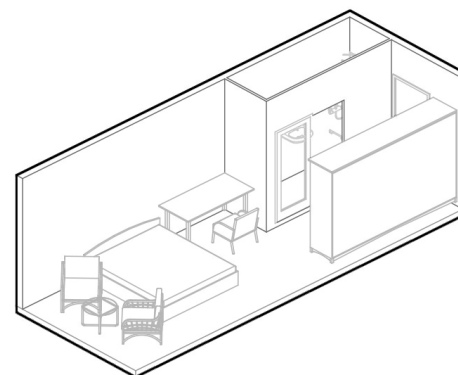
3m(L) x 8m(W) x 6m(H)



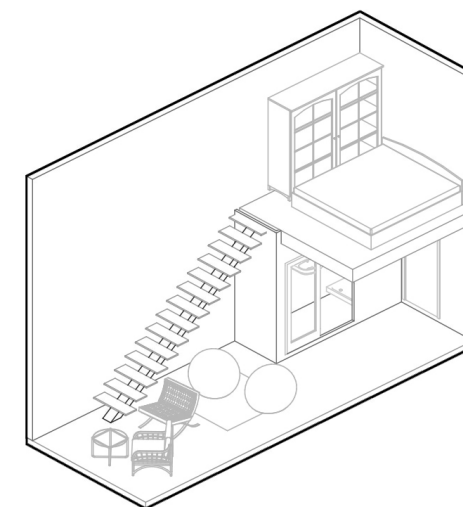
2m(L) x 8m(W) x 3m(H)  
Studio



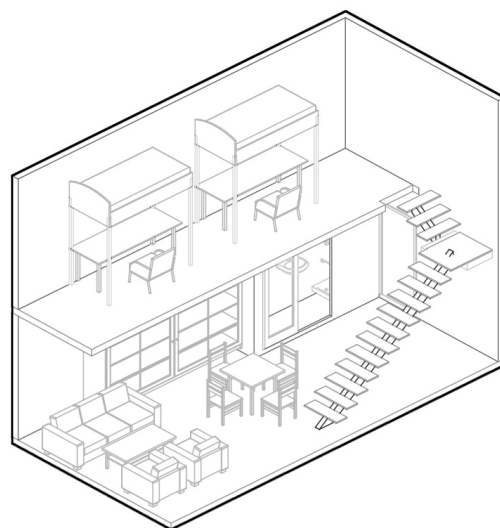
2m(L) x 8m(W) x 6m(H)  
Studio with  
working space



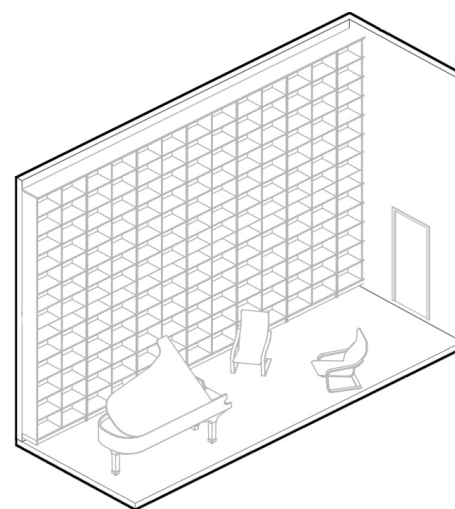
3m(L) x 8m(W) x 3m(H)  
Double room



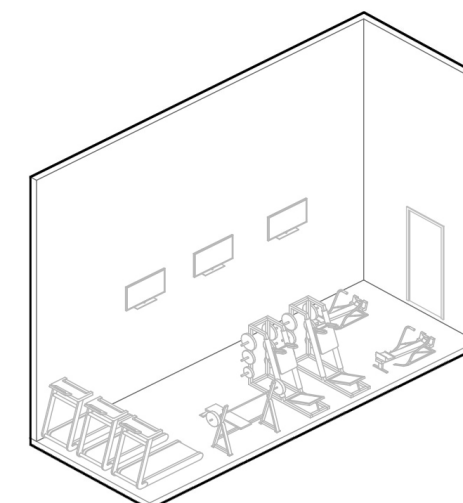
3m(L) x 8m(W) x 3m(H)  
Double room with  
leisure space



2m(L) x 8m(W) x 6m(H)  
x 2  
Four persons dormitory



2m(L) x 8m(W) x 6m(H)  
Conventional study  
space



3m(L) x 8m(W) x 6m(H)  
Sports room



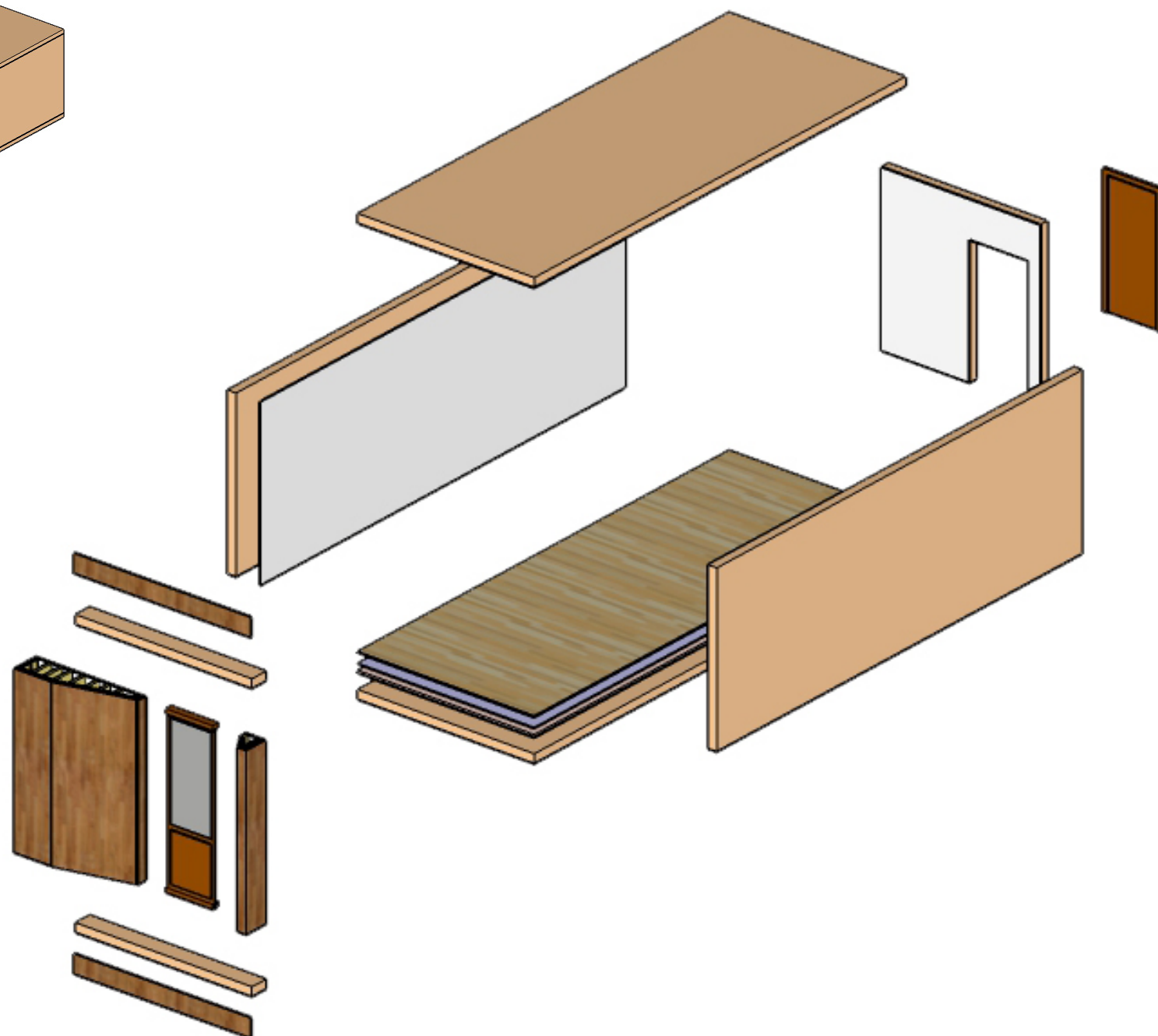
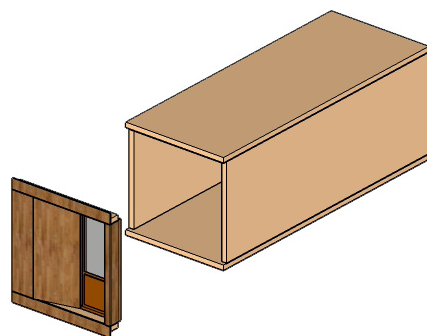
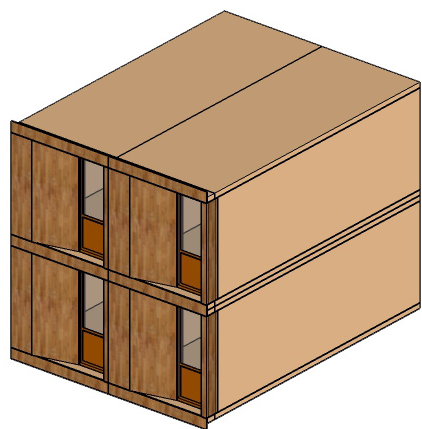
Storage spaces

Studying space with sufficient natural lighting

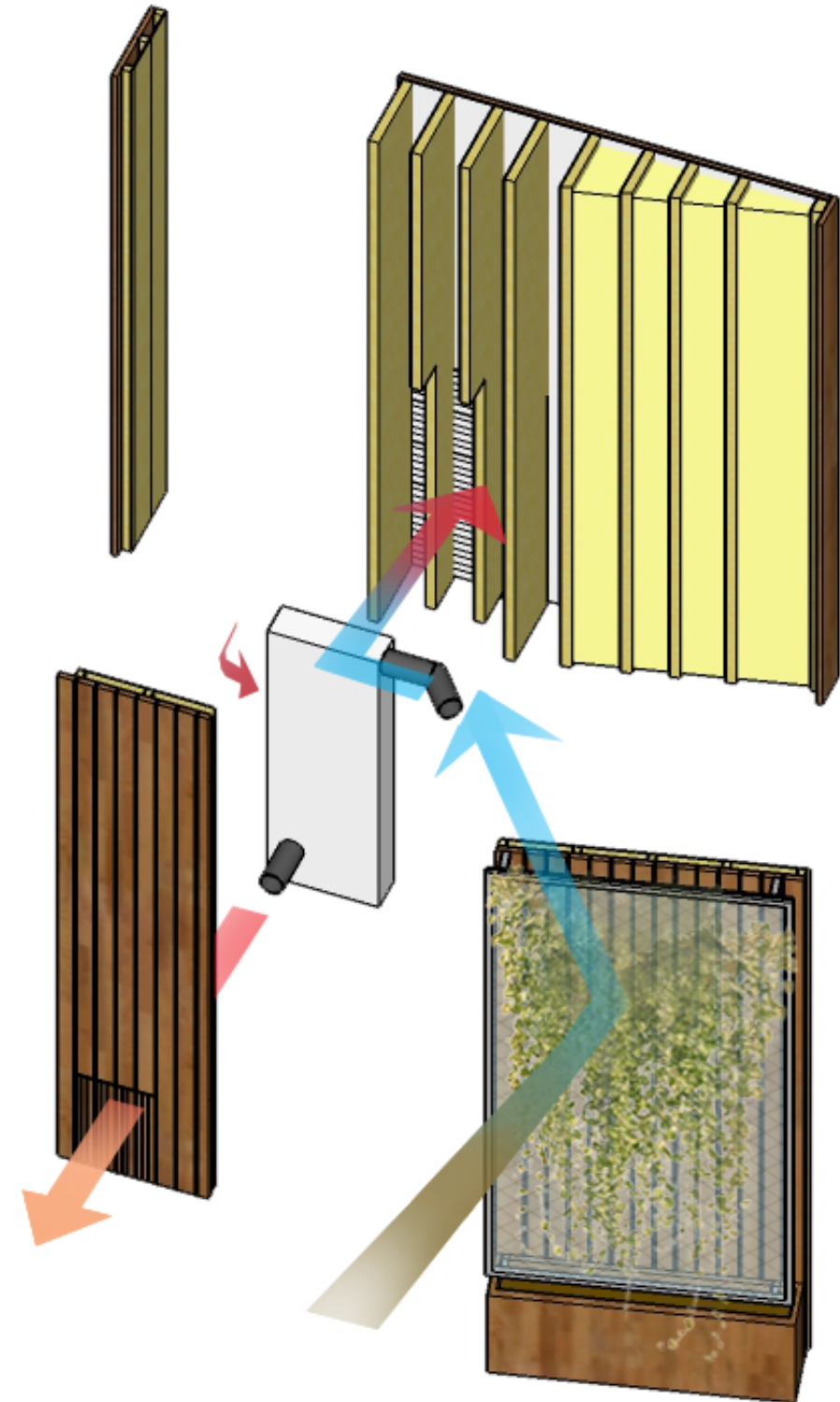
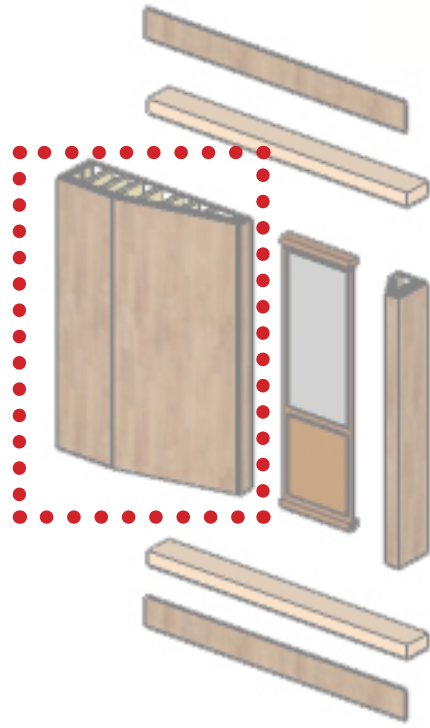
Bed that can be folded into the wall



# ASSEMBLY







# SELF-VENTILATED



Outdoor plantation web

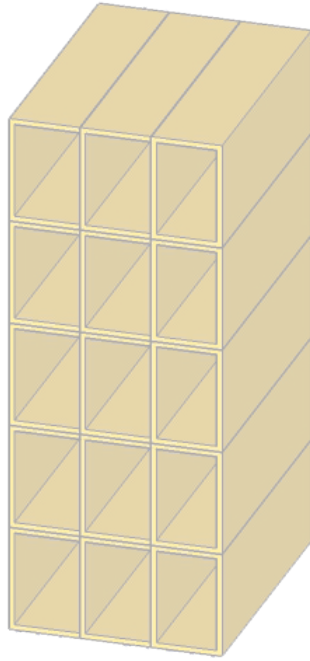


The ClimaraRad Sensa V2X

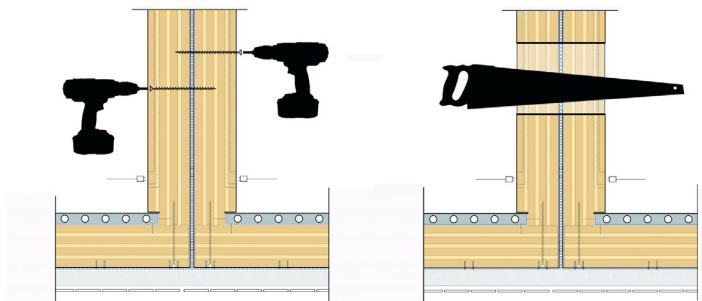
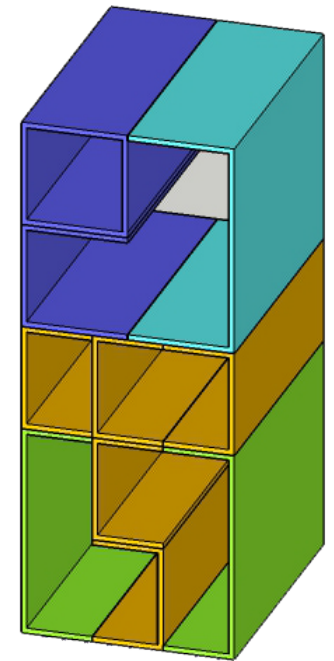
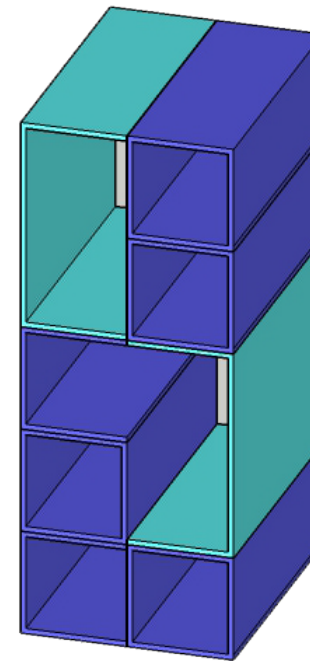
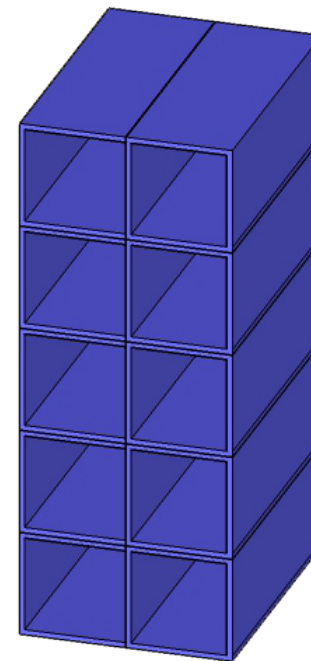
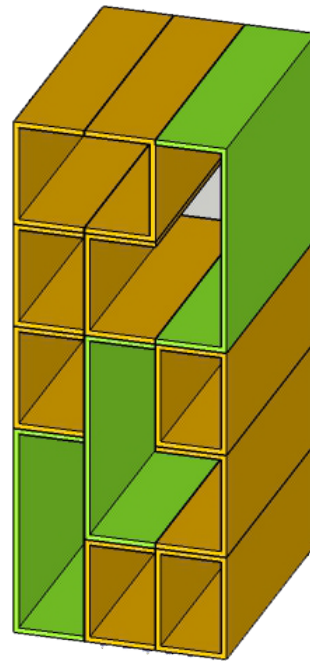
-  Control indoor air quality
-  Decentralized ventilation
-  Heat recovery
-  Filtering outside air
-  Summer / night ventilation



# FREEDOM OF COMBINATION

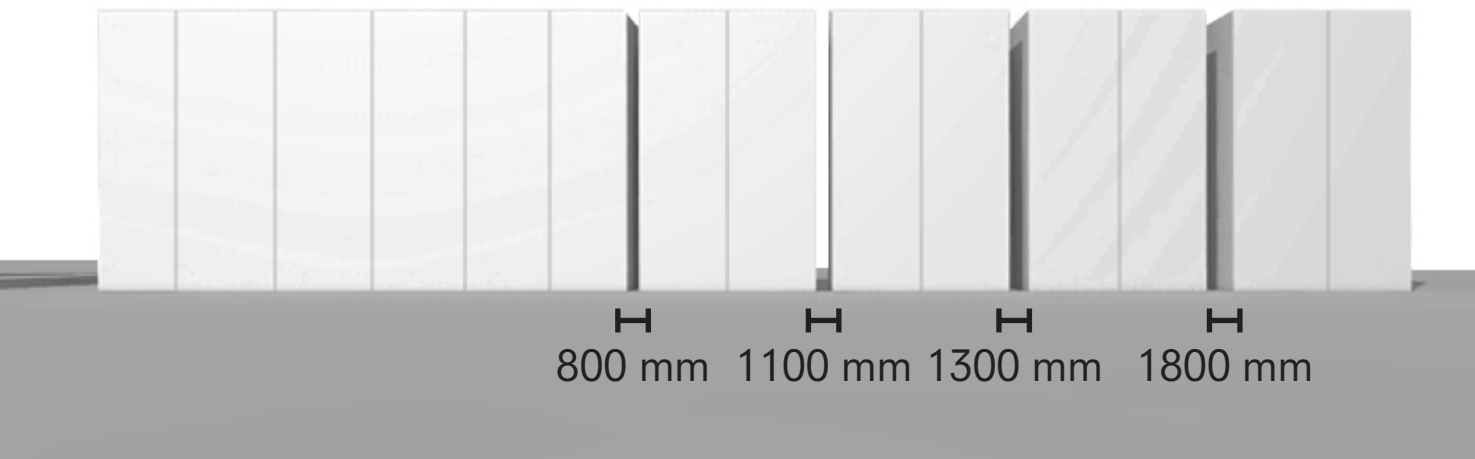


6m(L) x 8m(W) x 15m(H)



Adding units

Editing units



Blocks align  
along the water  
with gaps for light, ventilation and entrance

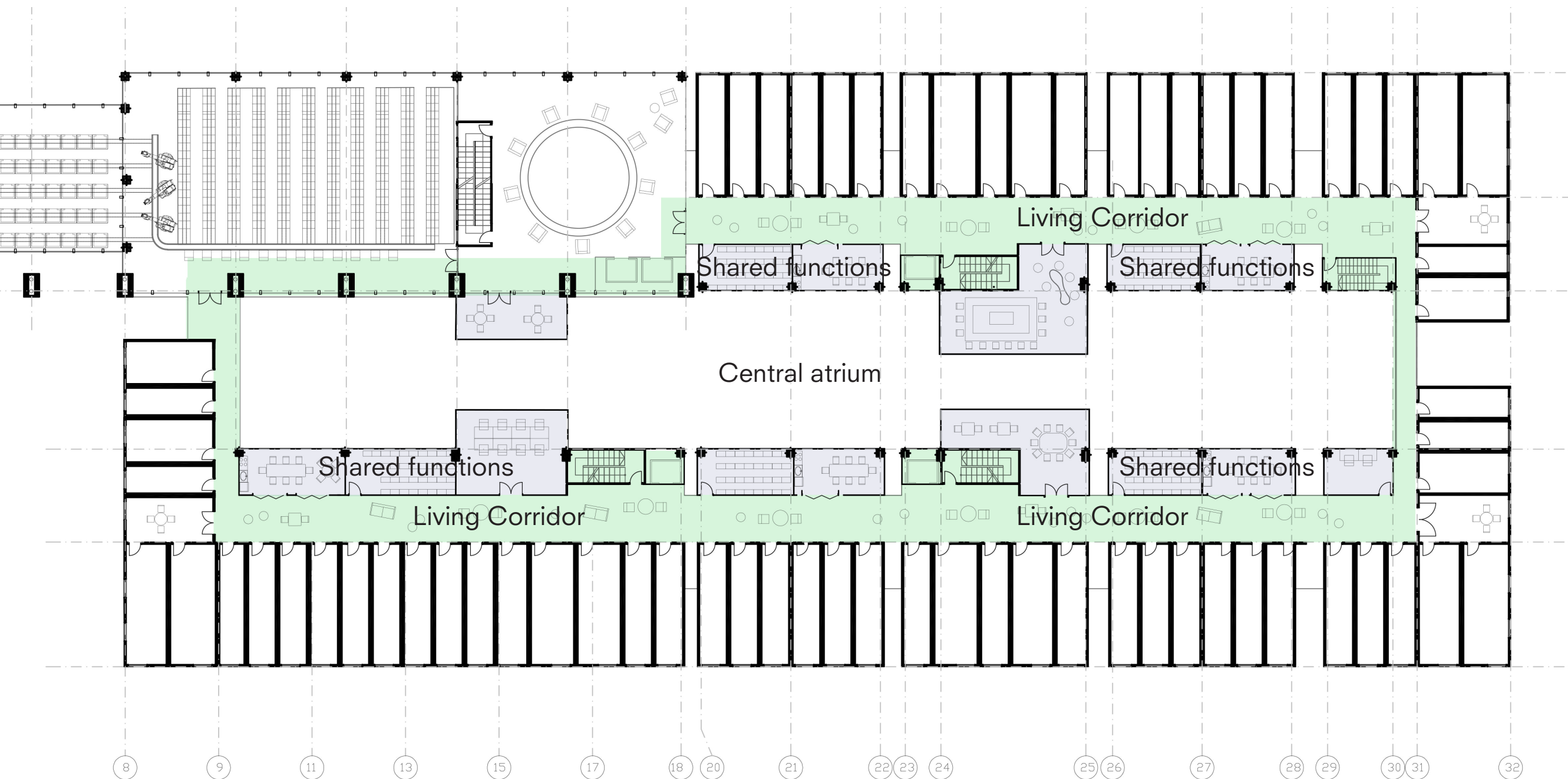


Lift up some part of the ground floor  
for views and connection



Combination of different units  
forms an interesting spatial experience and facade

# ORGANIZATION



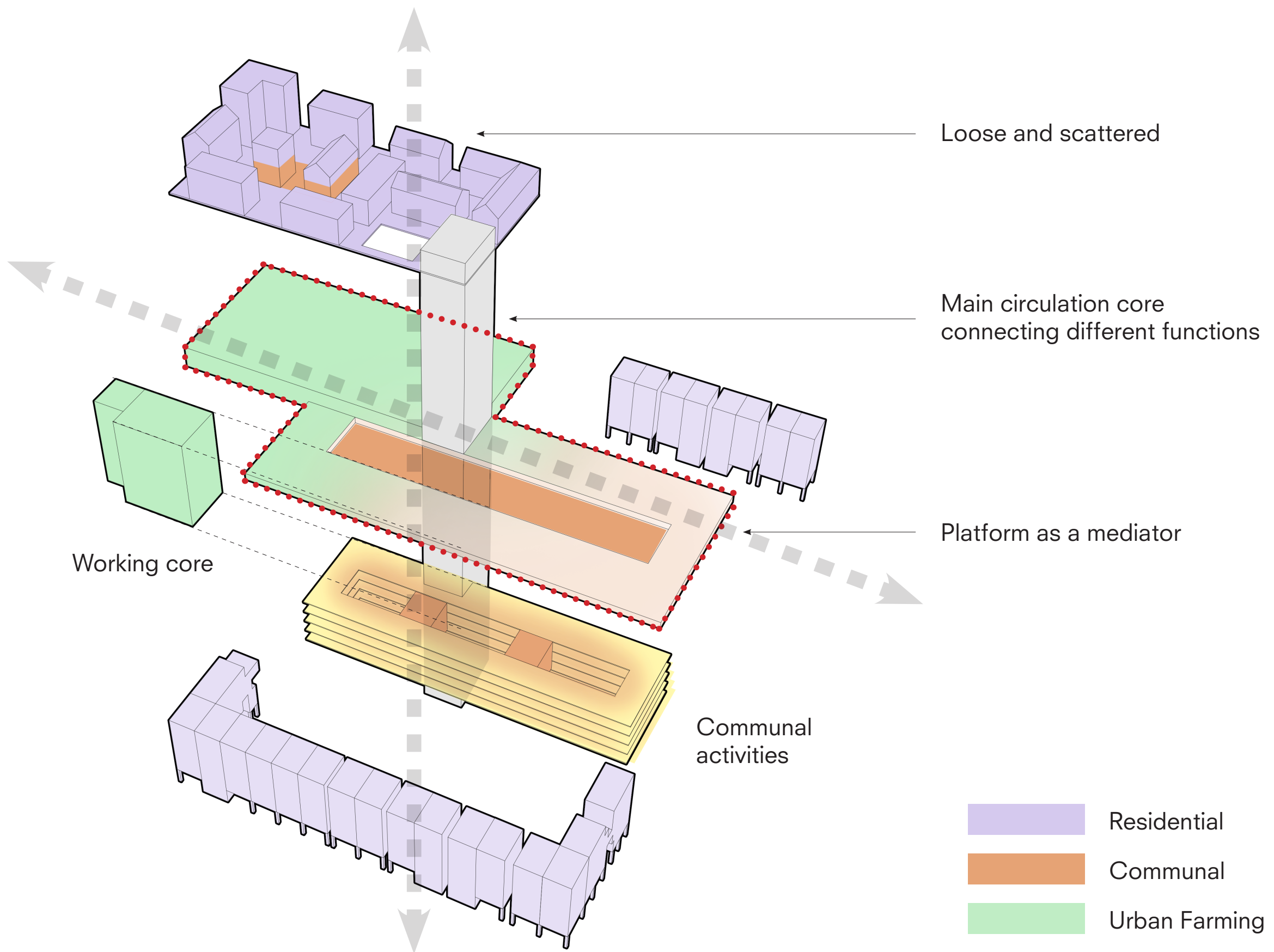


# **BUILDING LEVEL**

**Connecting  
different functions**

STAGE 1 DWELLING  
STAGE 1 DWELLING  
STAGE 1 DWELLING  
GARDEN  
STAGE 1 DWELLING  
GARDEN  
LARGE SCALE URBAN FARMING  
FOOD MANUFACTURING  
CIRCULATION CORE  
OUTDOOR MARKET PLAZA  
GOODS TRANSPORTATION  
GREEN HOUSE  
COMMUNAL ACTIVITY SPACE  
OUTDOOR FARMING  
GREEN HOUSE FARMING  
STAGE 2 DWELLING  
STAGE 2 DWELLING  
STAGE 2 DWELLING  
STAGE 2 DWELLING  
STAGE 2 DWELLING  
STAGE 2 DWELLING  
WORK SHOP  
MULTI-FUNCTIONAL ROOMS  
COLLECTIVE COOKING + DINING SPACE  
SMALL SCALE URBAN FARMING  
COLLECTIVE COOKING + DINING SPACE  
SMALL SCALE URBAN FARMING  
COLLECTIVE COOKING + DINING SPACE  
SMALL SCALE URBAN FARMING  
COLLECTIVE COOKING + DINING SPACE





**A journey of a  
newly arrived NEET...**



NEETS OR THEIR  
FAMILIES APPLY  
FOR THE HOUSING



DIAGONISING



APPLICATION  
PERMITTED AND  
NEET MOVES IN



STAY IN STAGE 1  
HOUSING



MOVE OUT



COMMUNAL ACTIVITIES



RECOVER



MOVE TO STAGE 2  
HOUSING



NATURE AND  
MEDITATION



STAY IN THE  
COMMUNITY AS SOCIAL  
WORKER



URBAN FARMING  
TRAINING

**A day in stage 1  
village dwelling...**



# 1.SETTLE DOWN IN HIS ROOM



Socialize



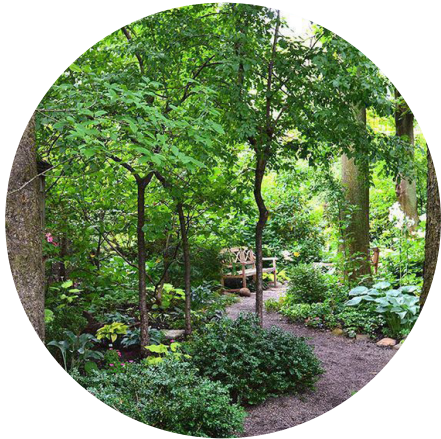
Cook



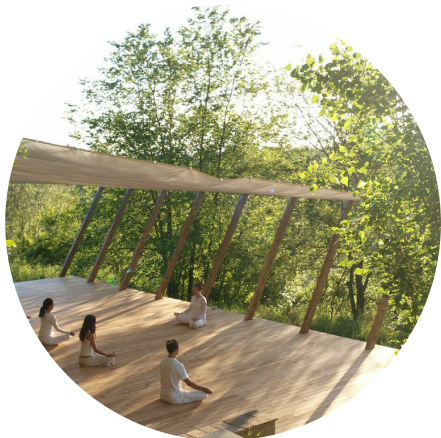
Hygiene



## 2. HEAL IN THE GREEN



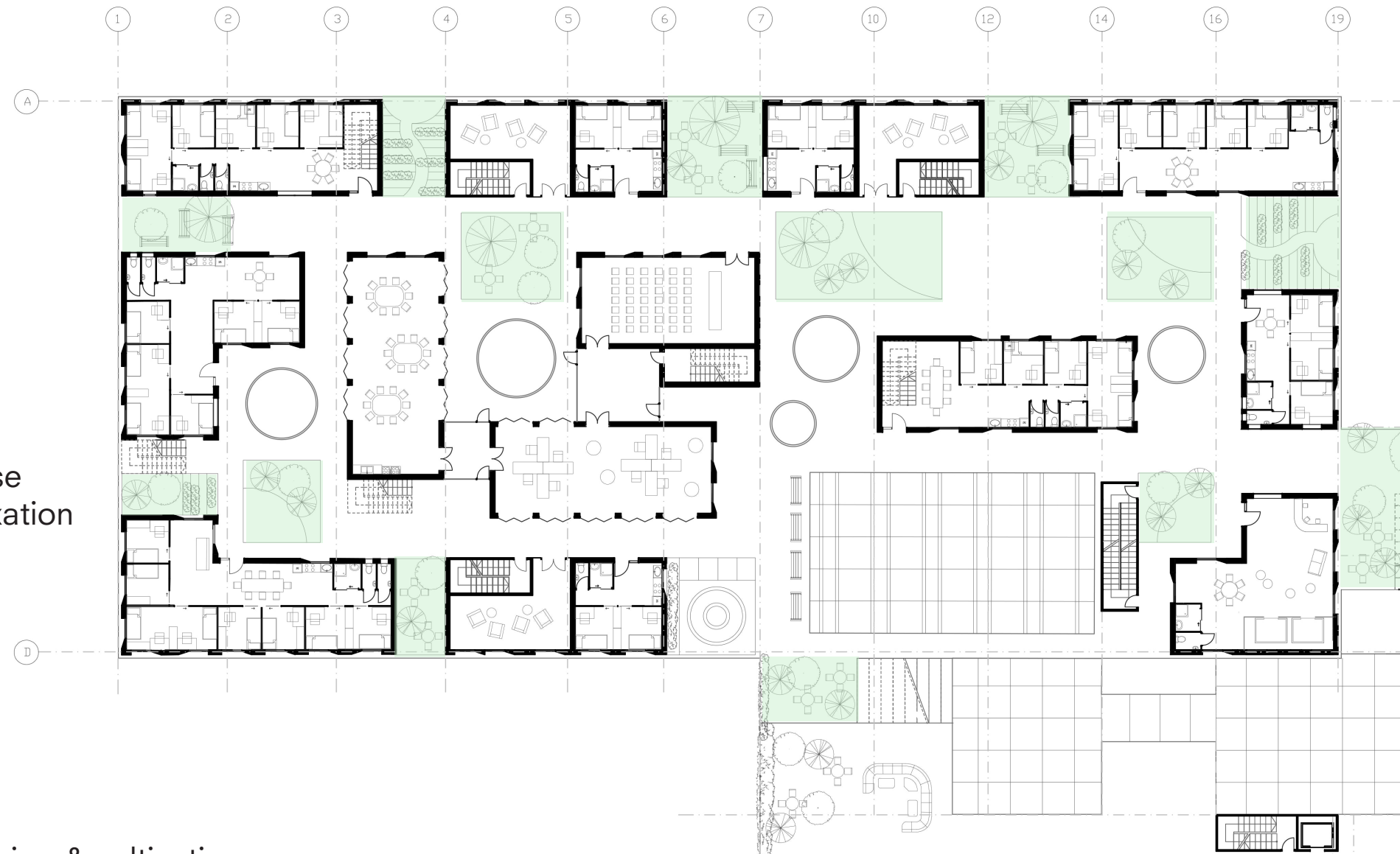
Healing



Exercise  
& relaxation



Gardening & cultivation

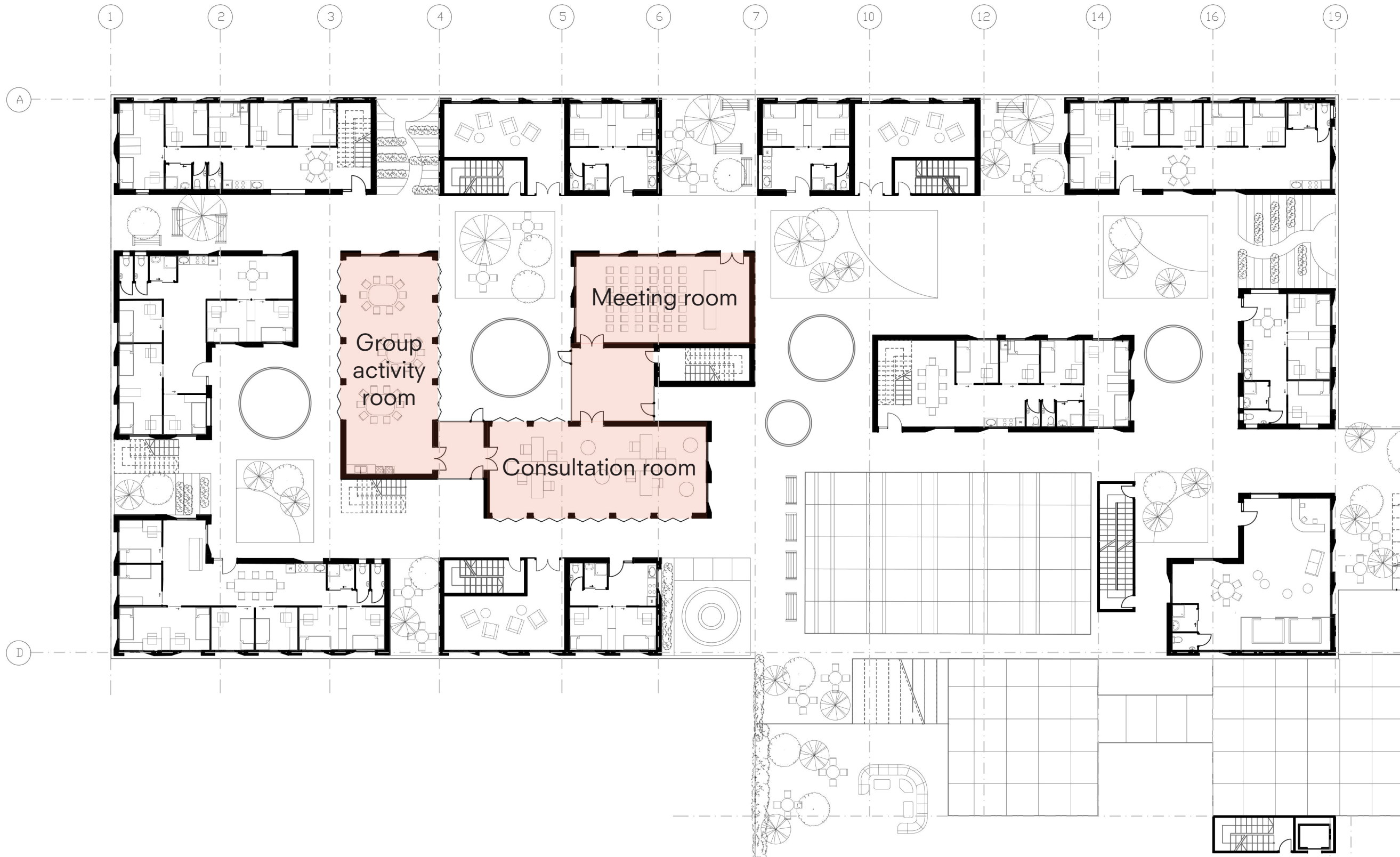








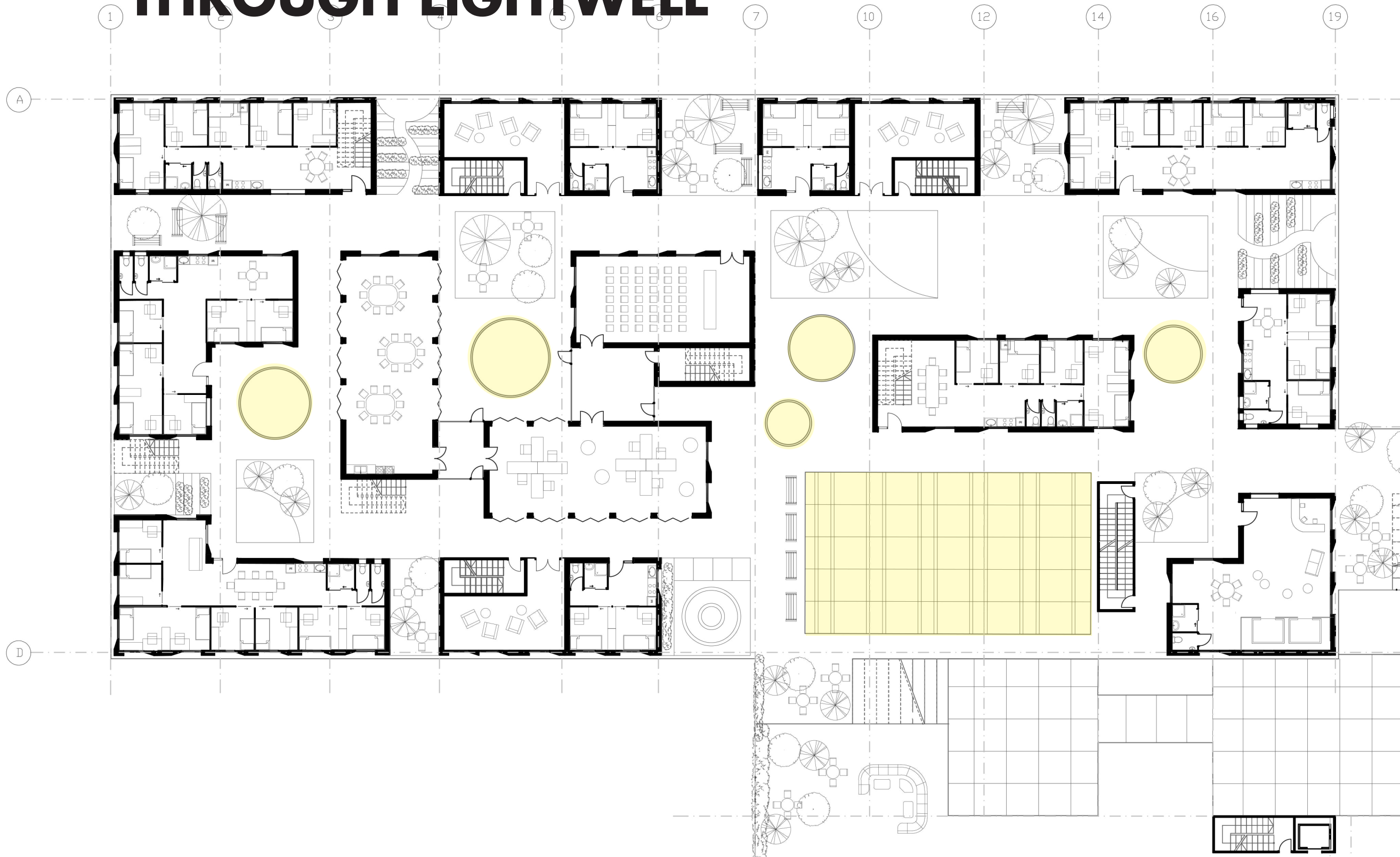
# 3. COMMUNAL LIFE IN “VILLAGE CENTER”







# 4. OBSERVE DOWNSTAIRS THROUGH LIGHTWELL

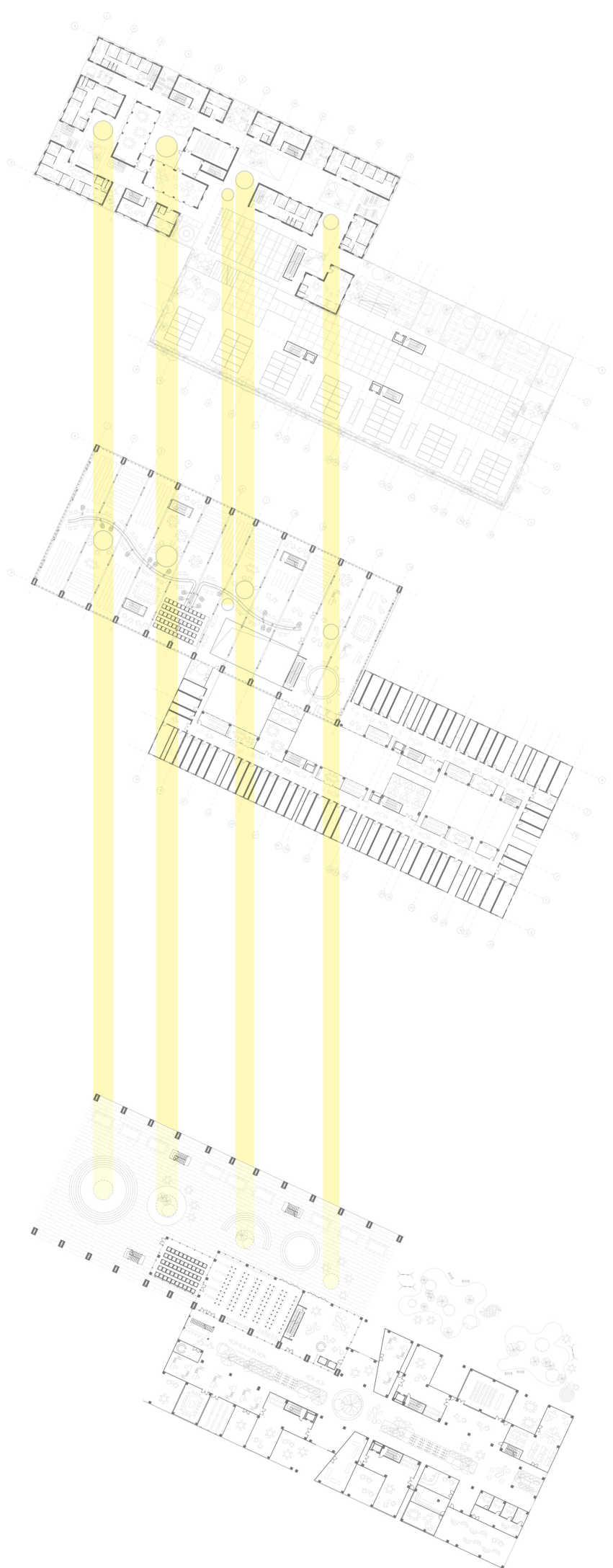




**7th floor**

**5th floor**

**Ground  
floor**





**Lightwells as  
visual  
connector**

??

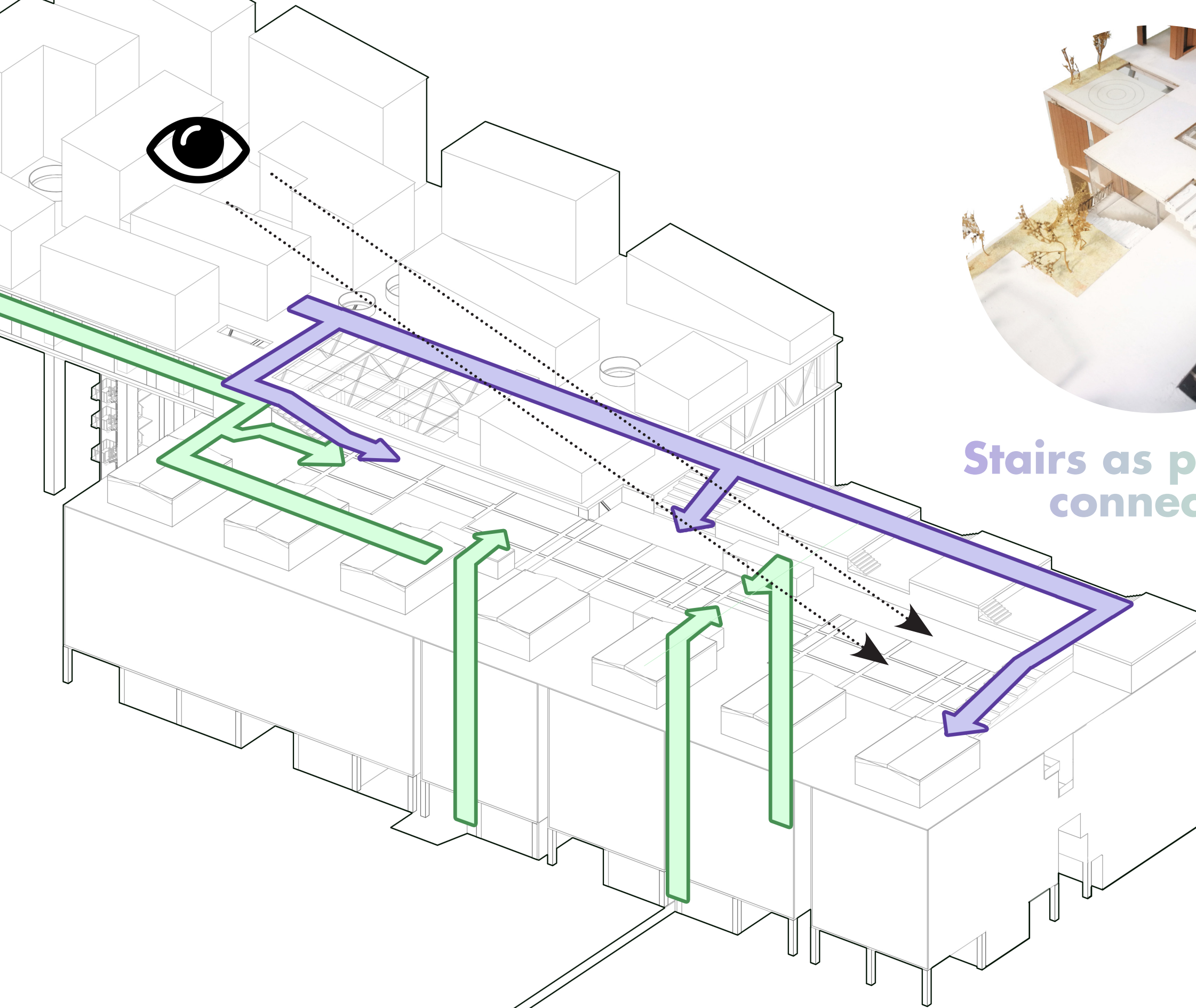
??



# 5. RELAX AT THE ROOFTOP GARDEN

Direct access but with height difference





Stairs as physical  
connector







**A day in stage 2  
compact dwelling...**

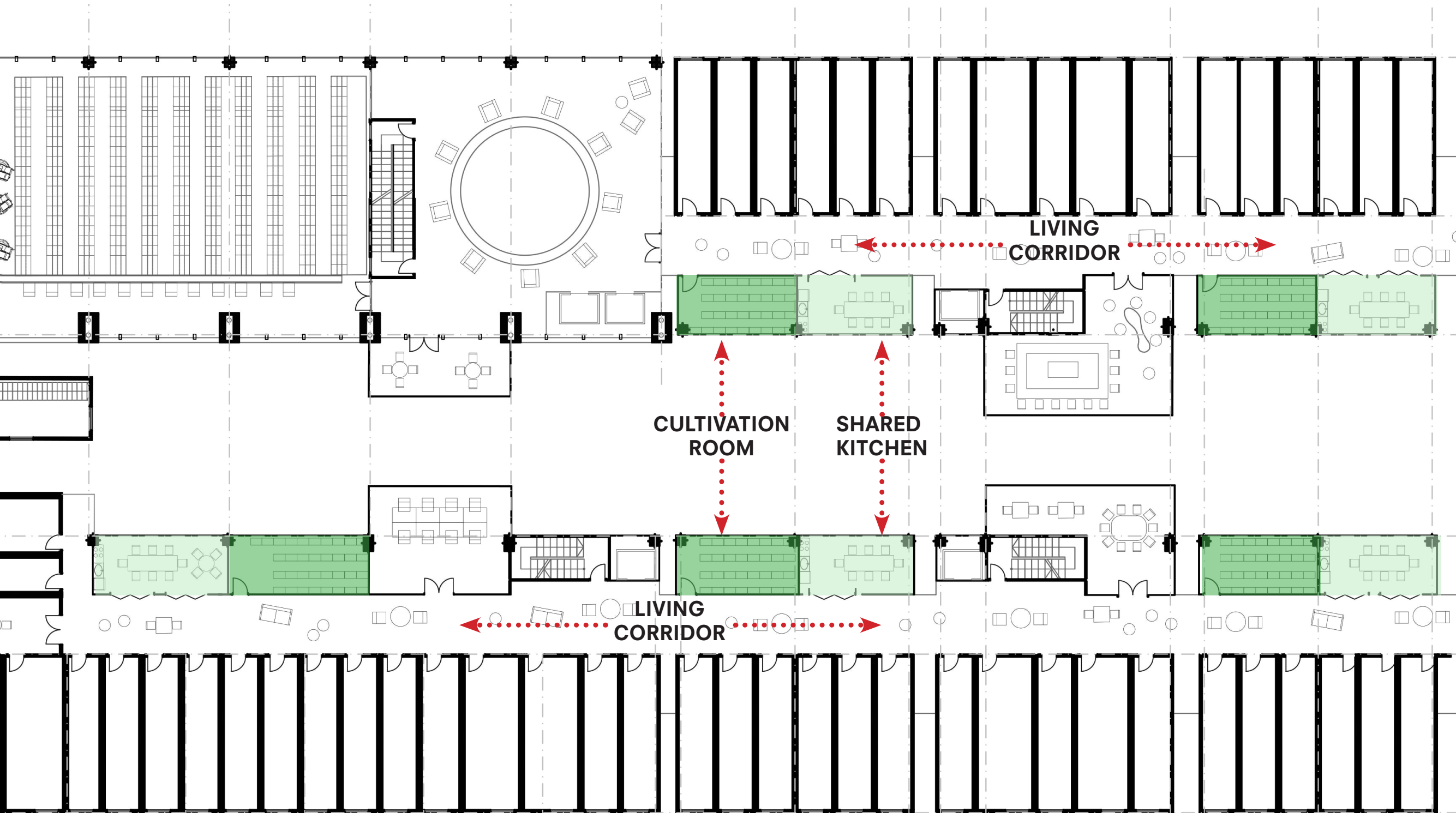
# 1.MOVE TO HIS NEW ROOM



More privacy



## 2. HARVEST & COOK

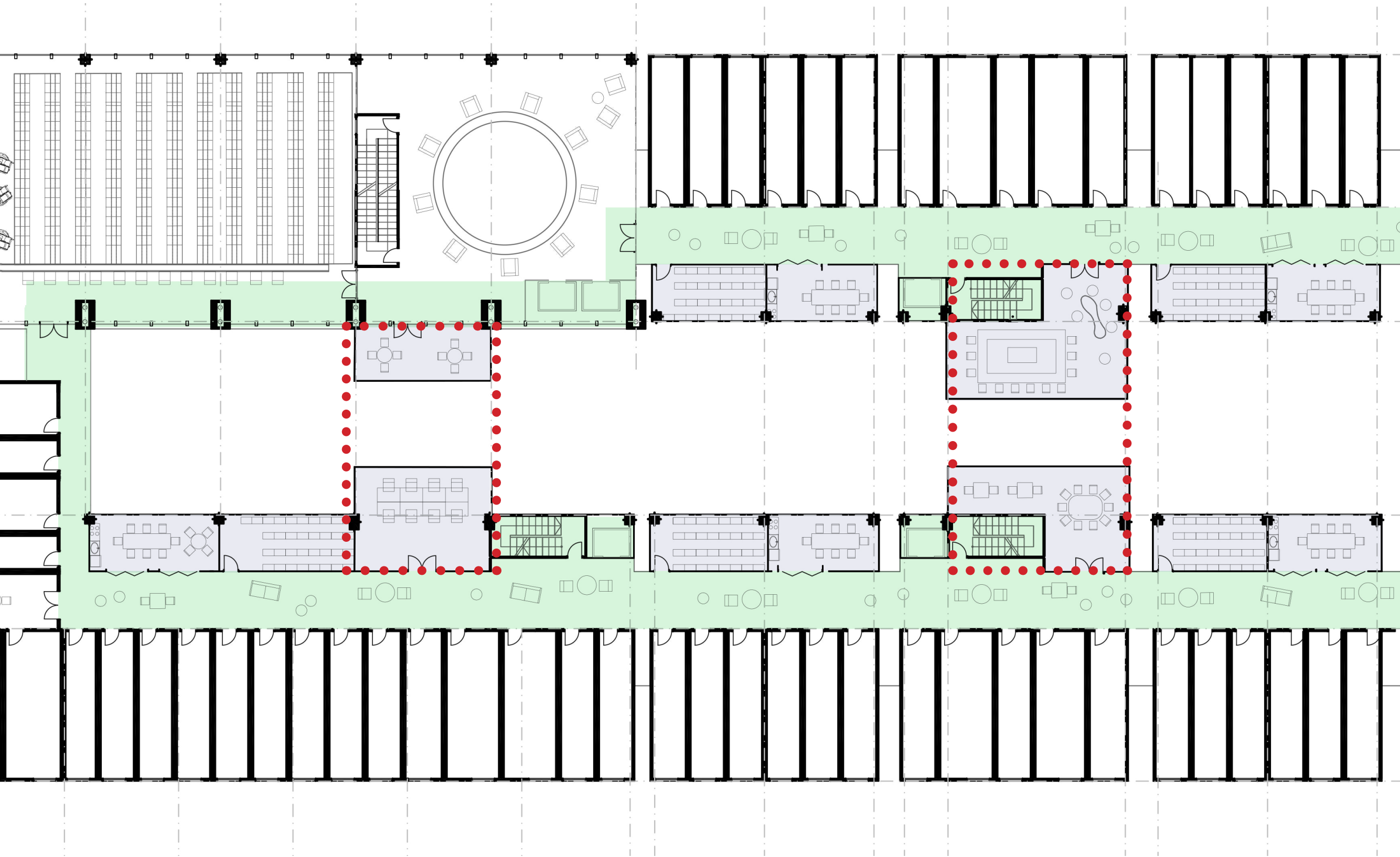


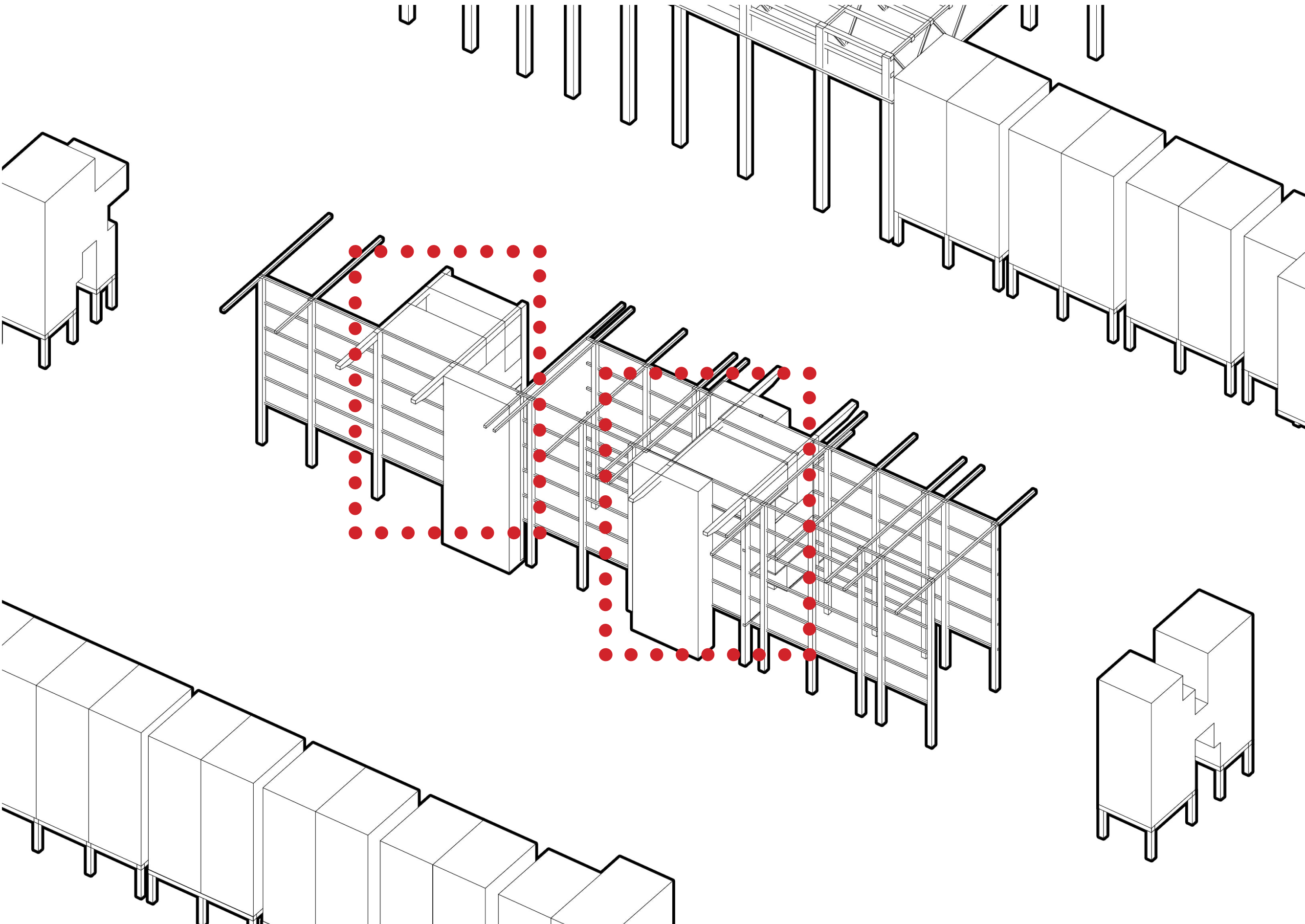


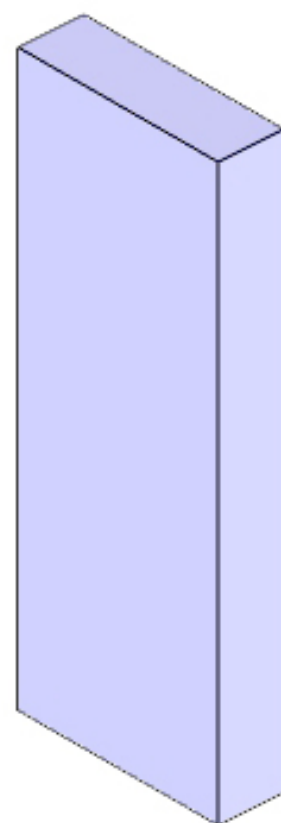
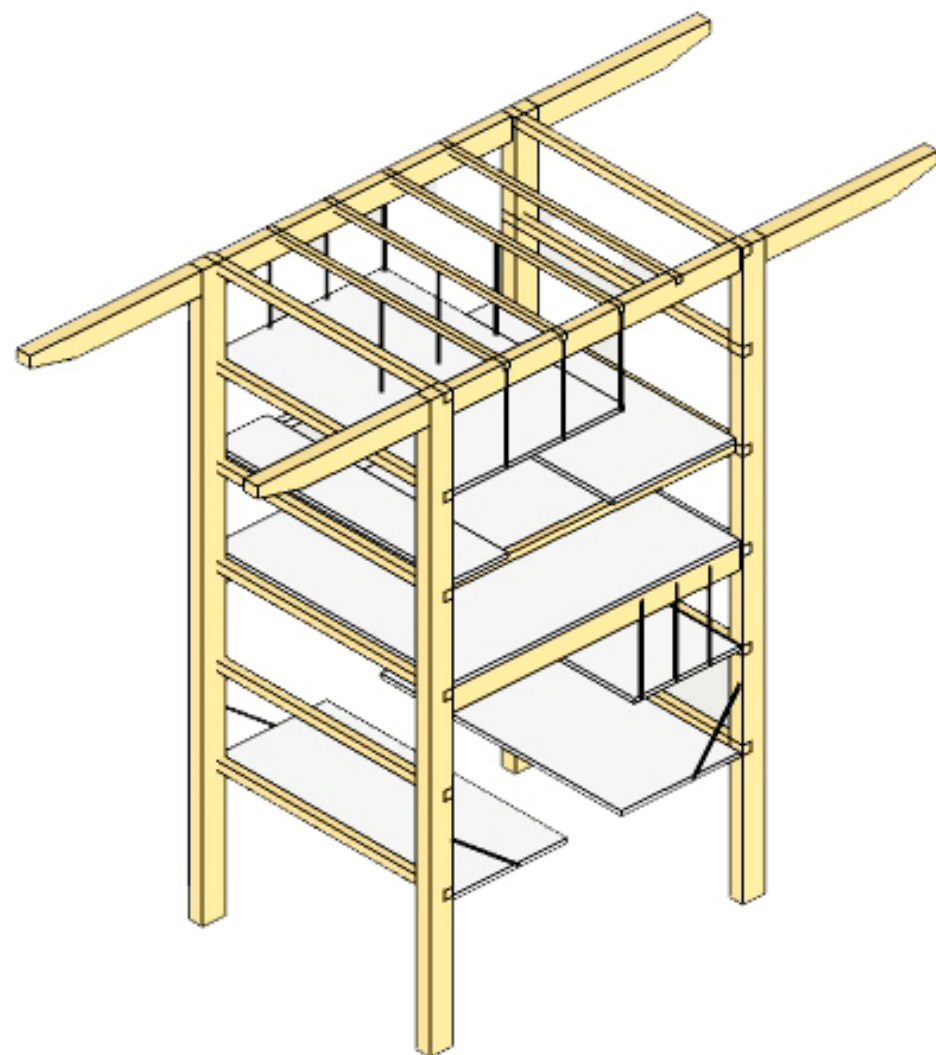
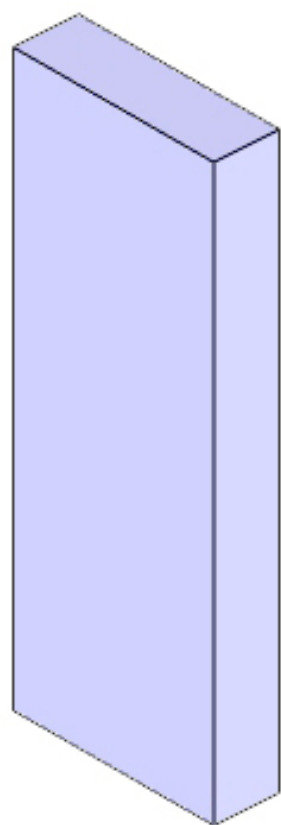


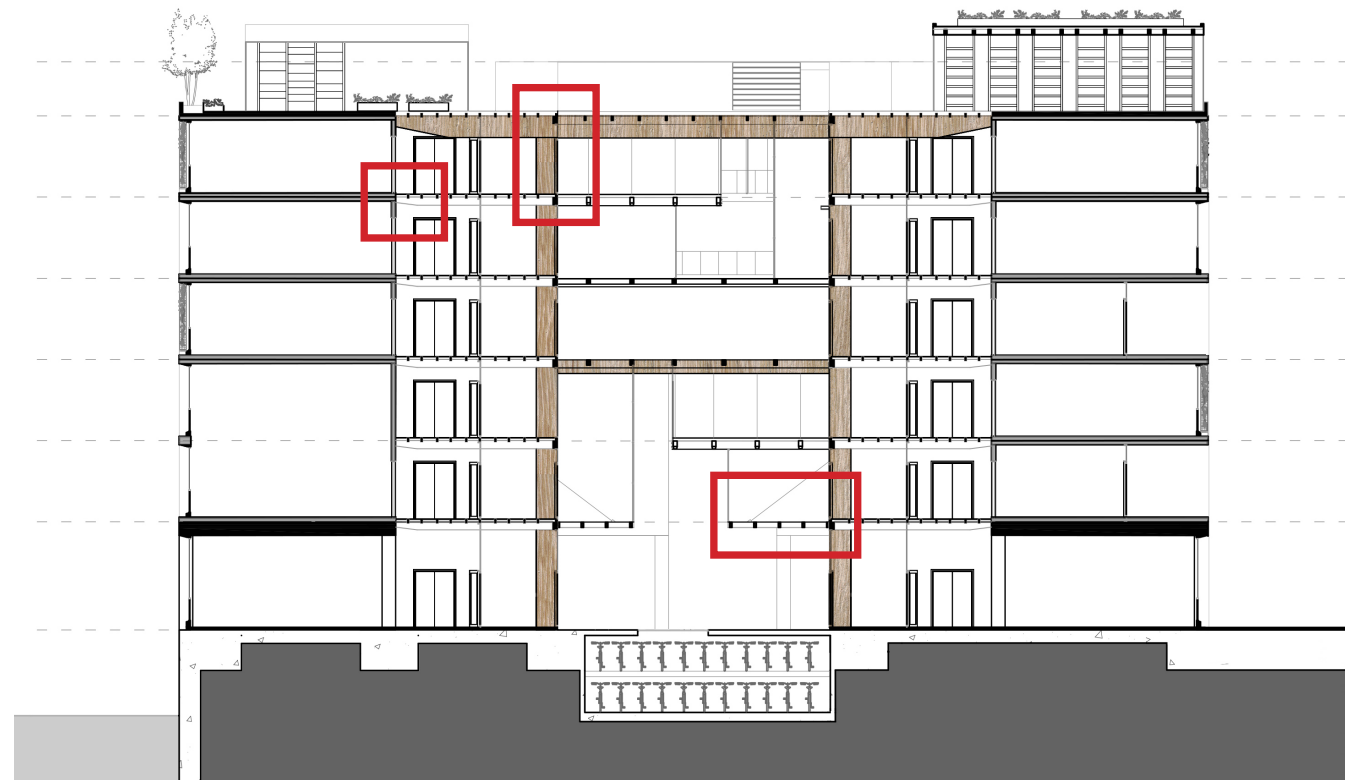
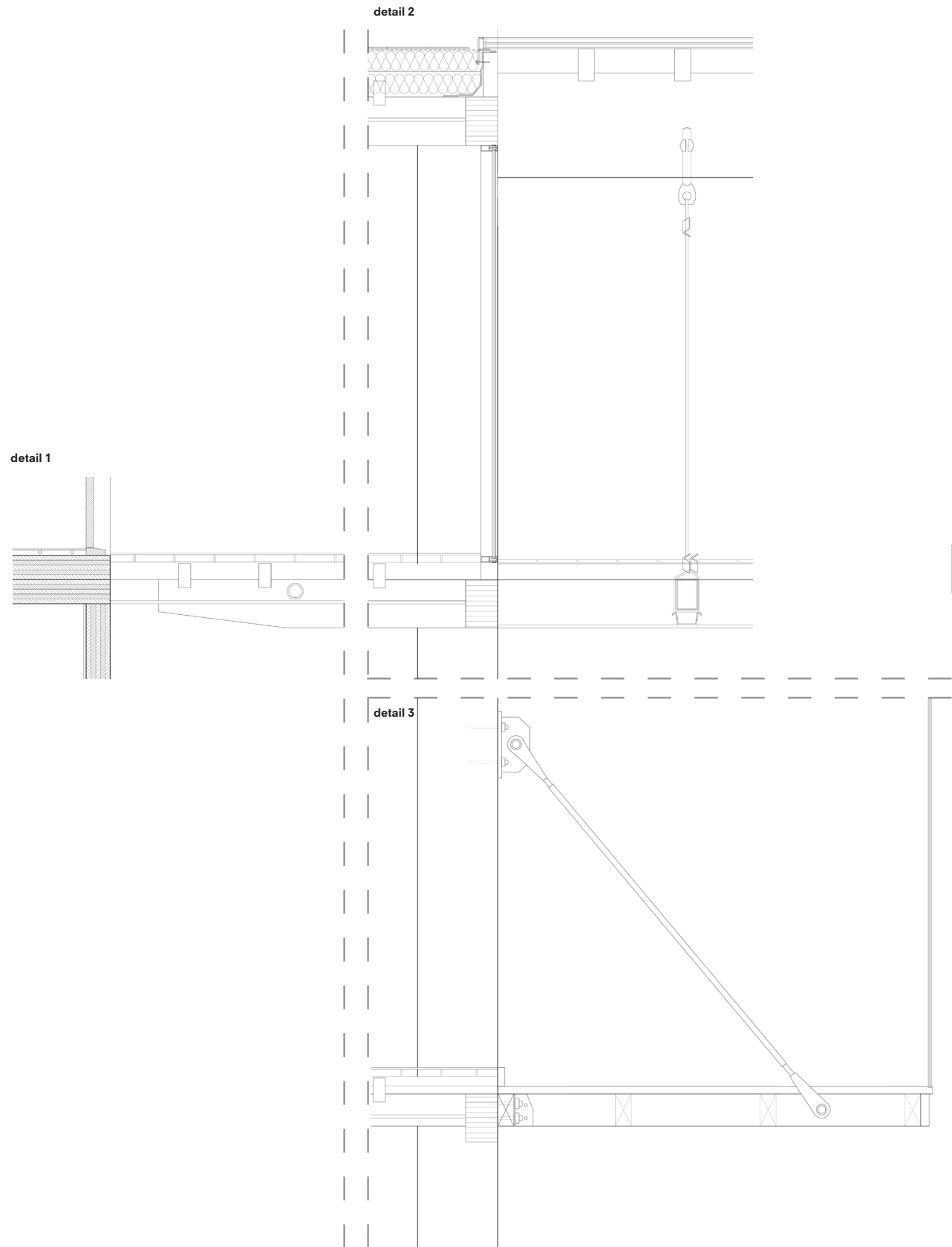


### 3. ENJOY COMMUNAL ACTIVITIES



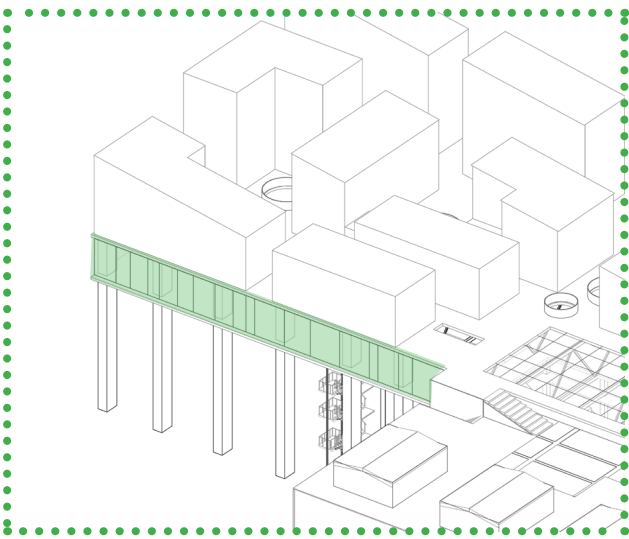
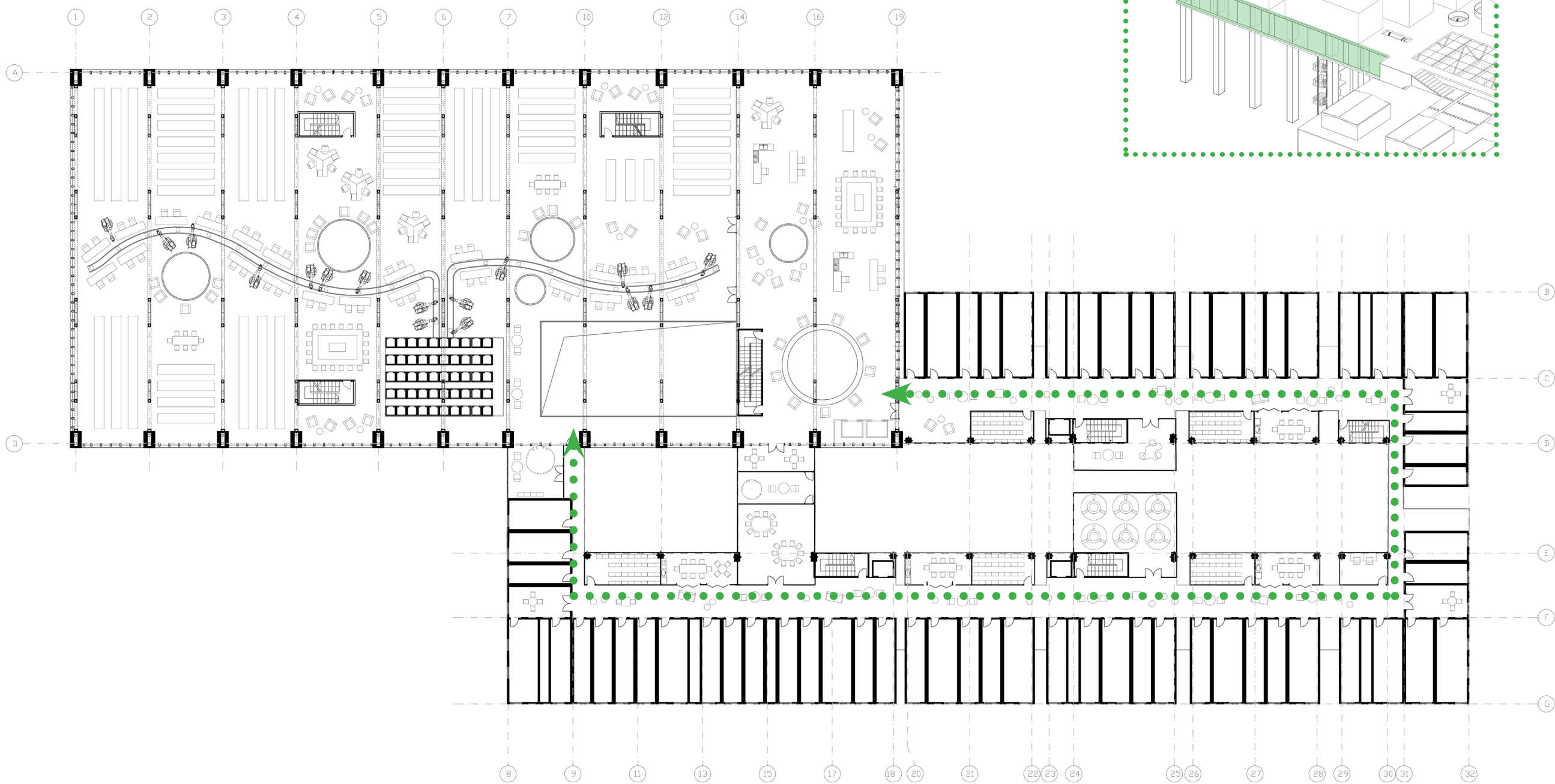


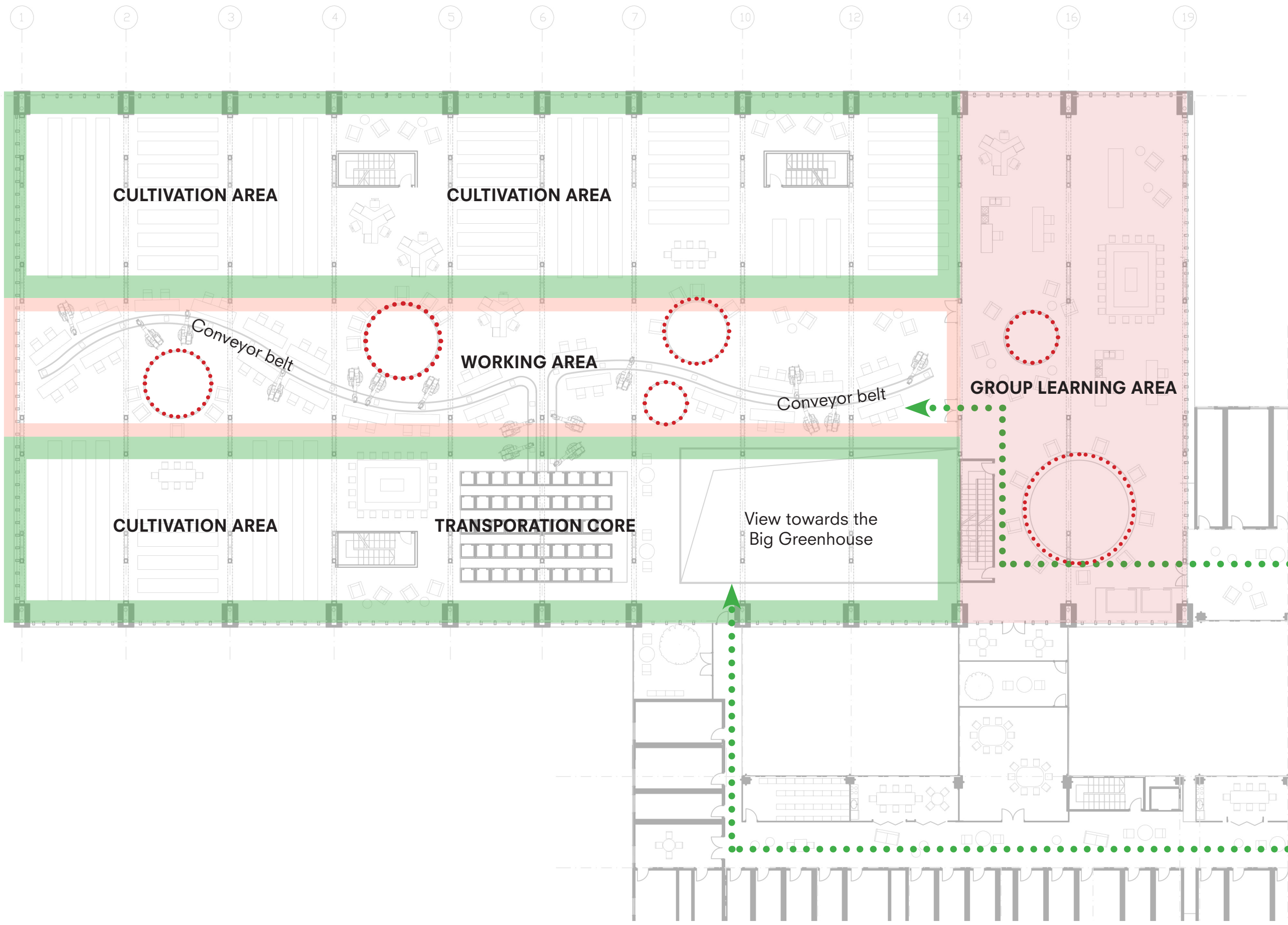






# 4. LEARNING: THE PLATFORM



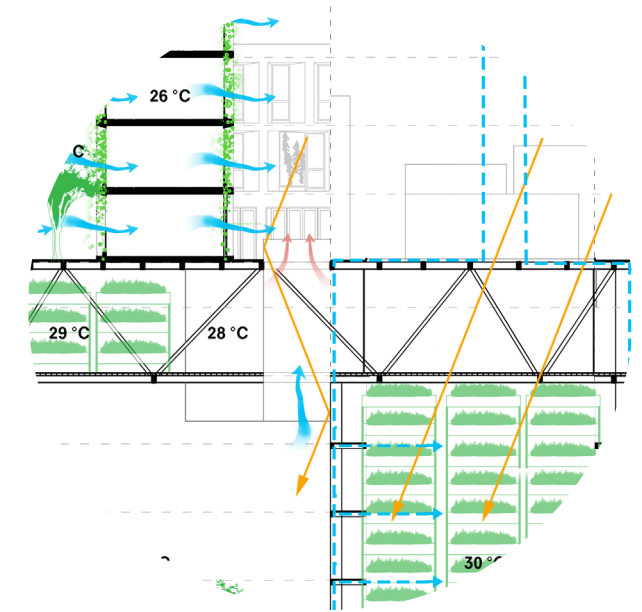
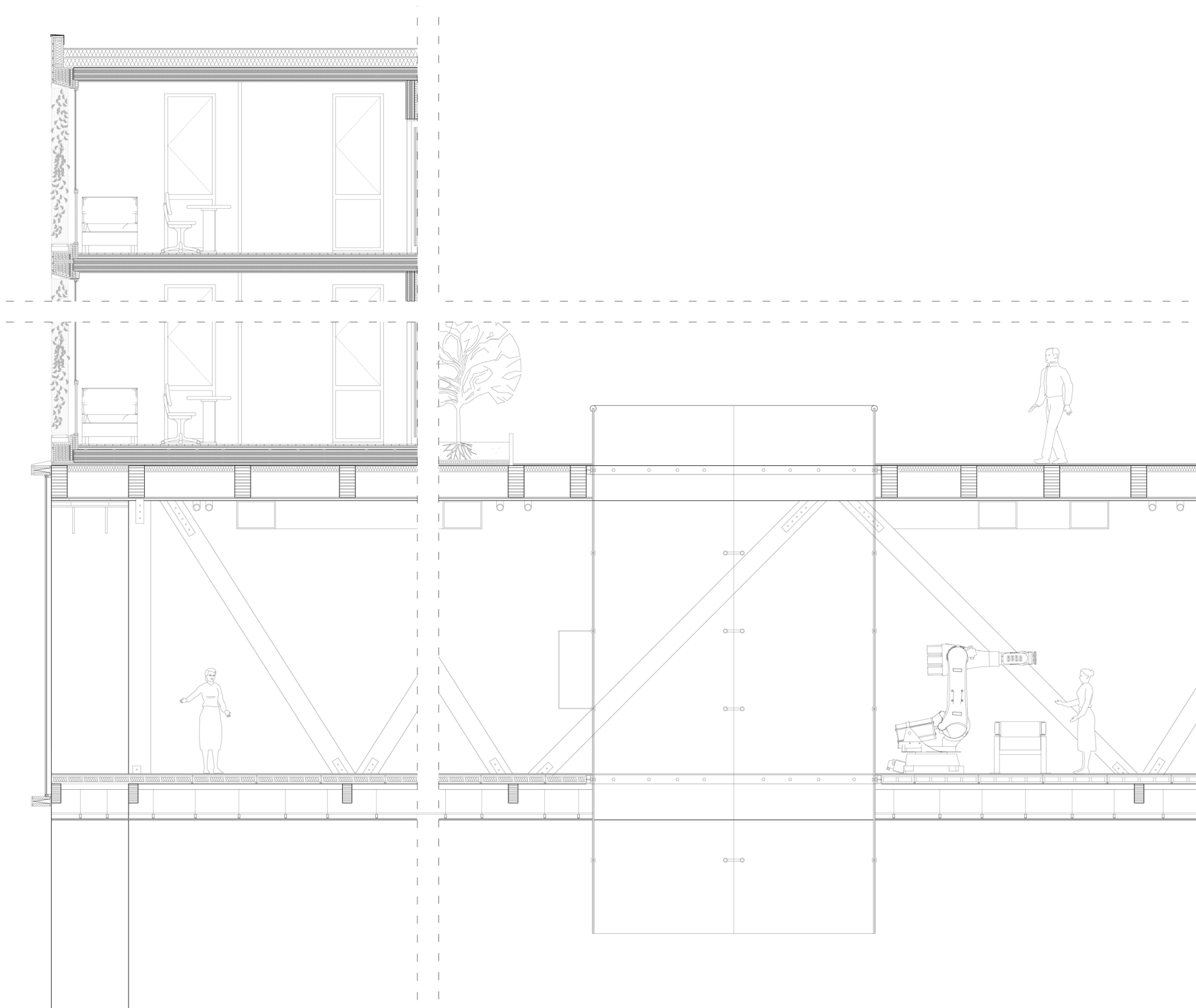






**STRONG SENSE OF COOPERATION**

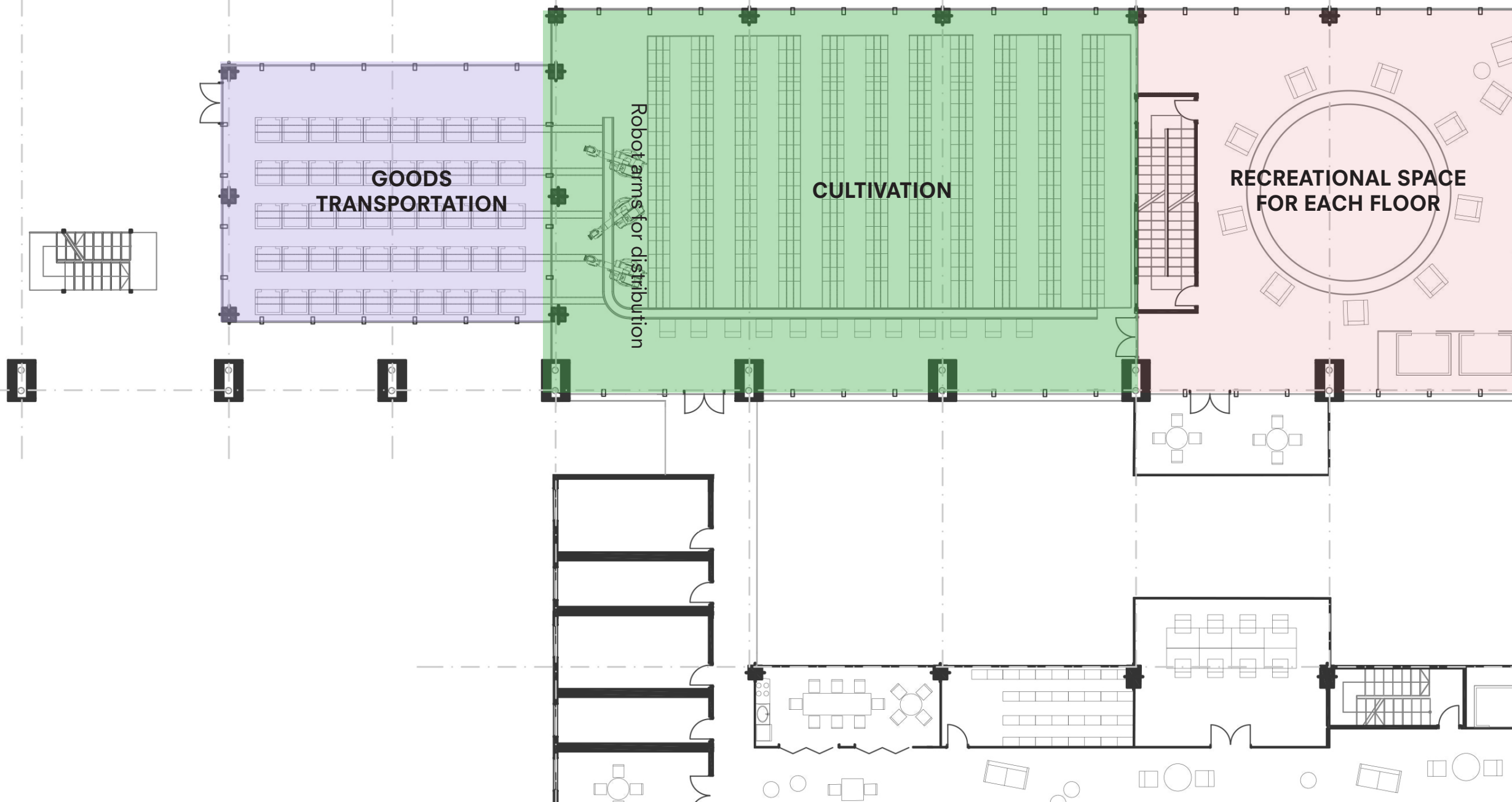
# LIGHTWELLS



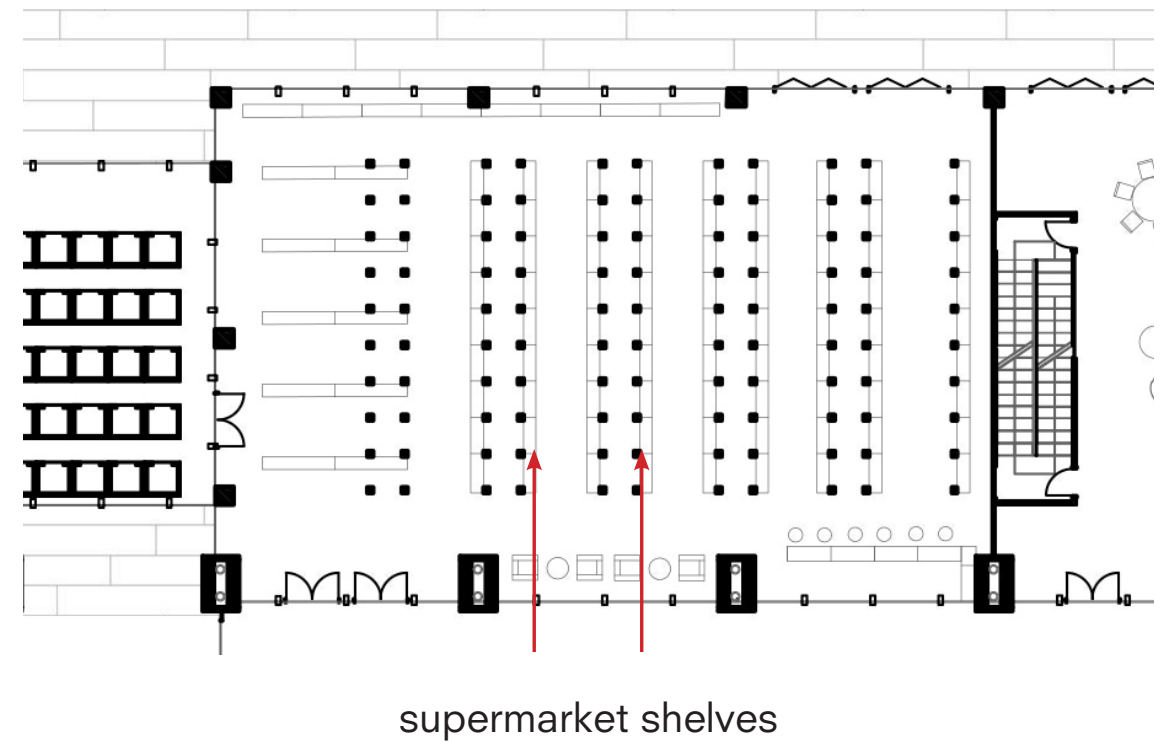
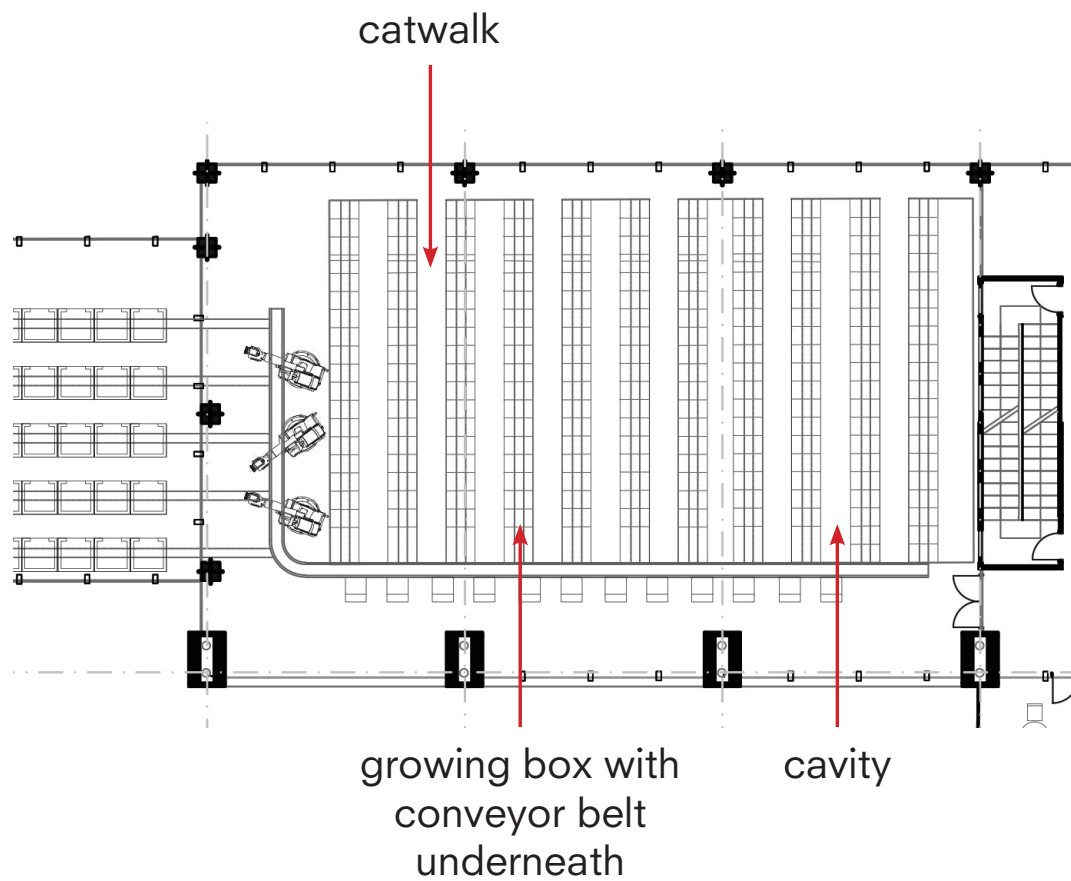
summer



# 4. WORKING: THE BIG GREENHOUSE



One structure that combines  
**FARMING BOX +**  
**MAINTANANCE CATWALK +**  
**CONVEYOR BELT +**  
**SUPERMARKET SHELVES**



















Reference: SOA Architects



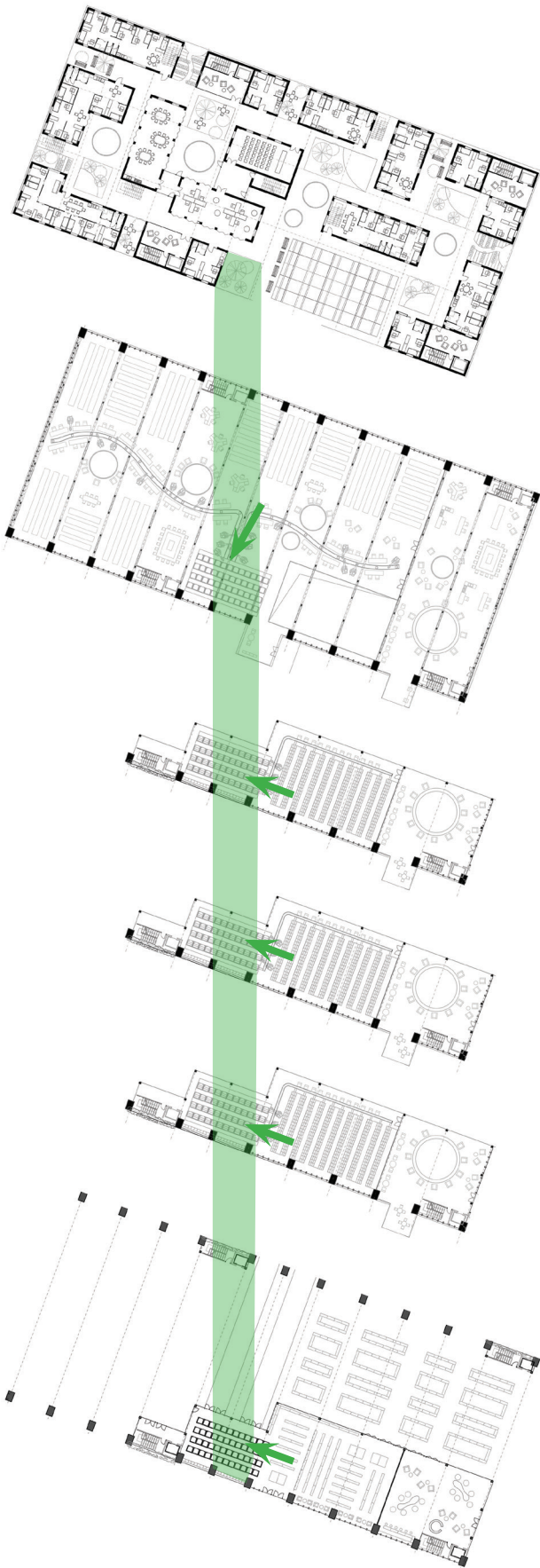
# GOODS TRANSPORTATION CORE



DRONES LANDING

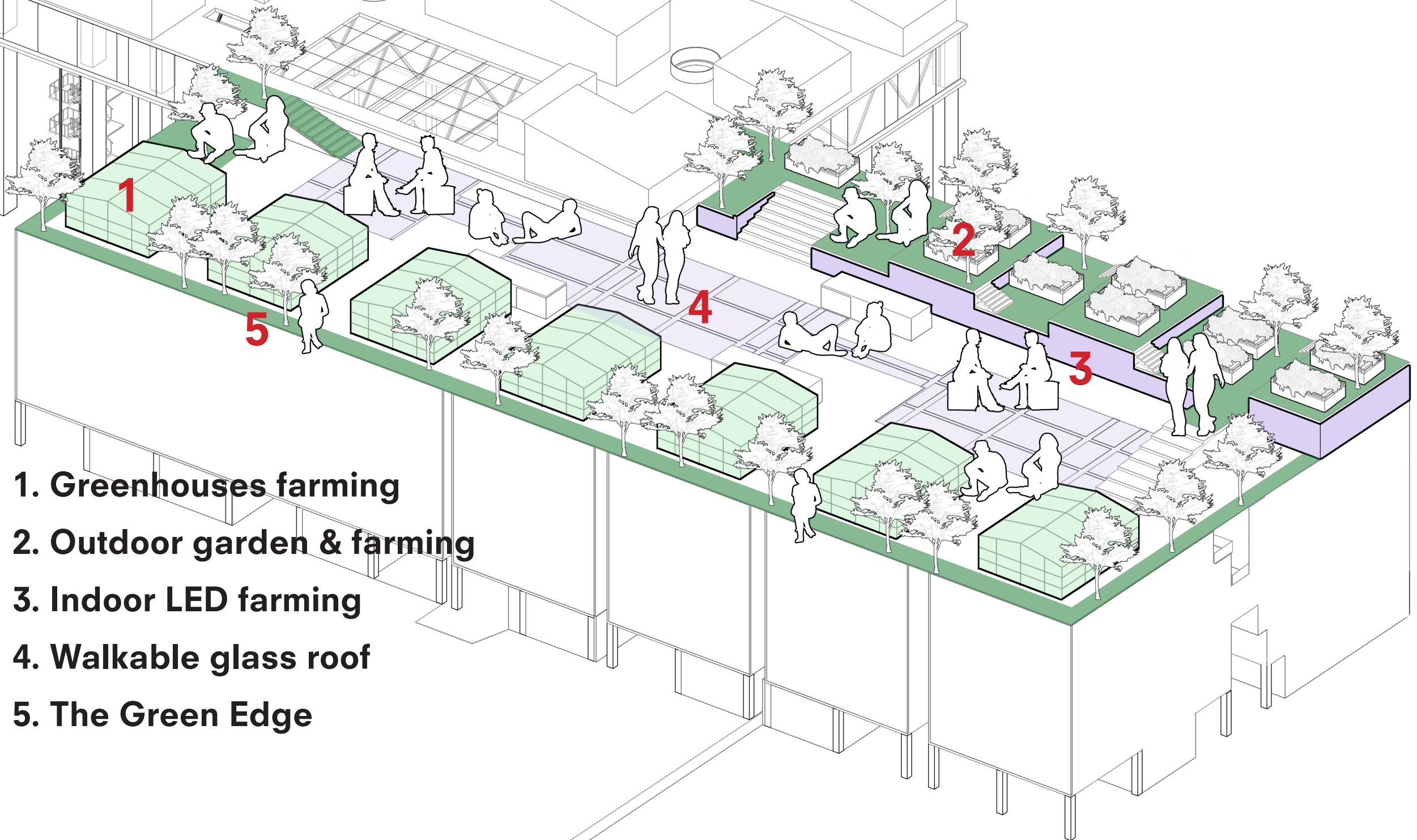


AUTOMATIC TRUCKS  
PICKING UP



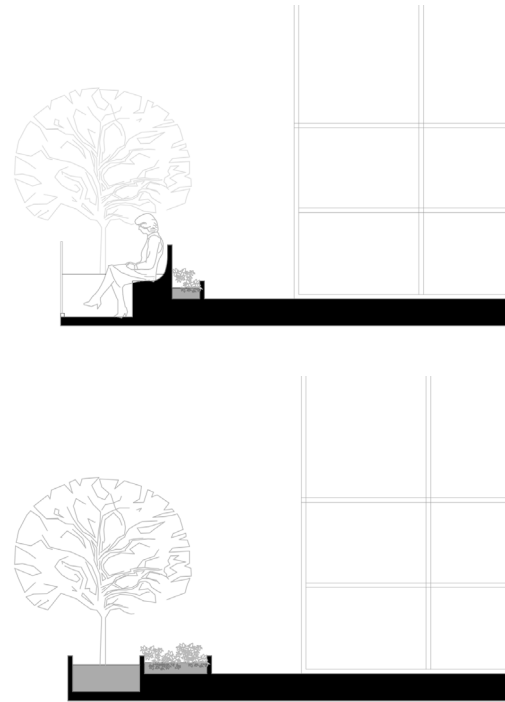


# 5. WORKING ON THE ROOFTOP GARDEN



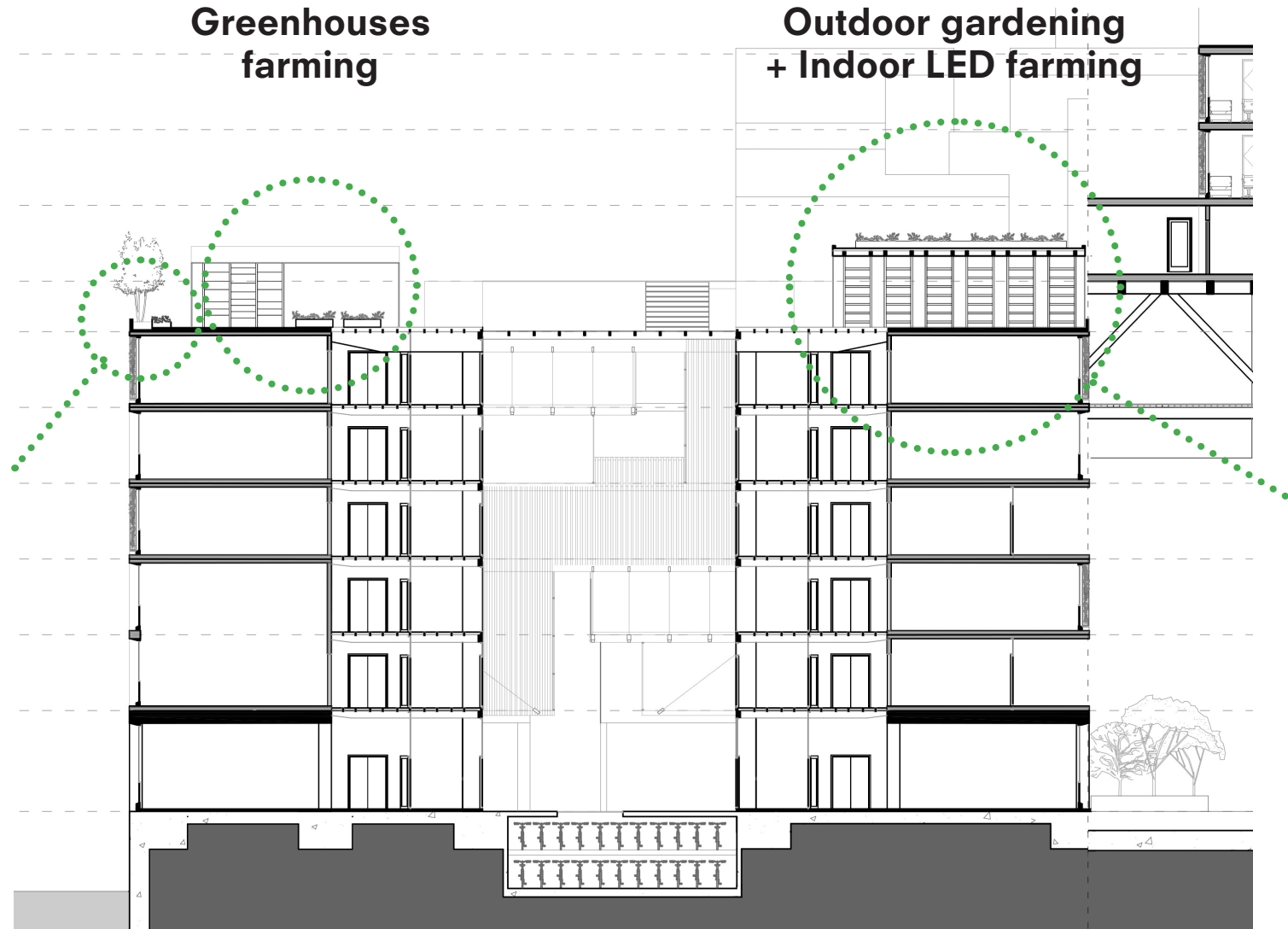
1. Greenhouses farming
2. Outdoor garden & farming
3. Indoor LED farming
4. Walkable glass roof
5. The Green Edge

## The green edge



## Greenhouses farming

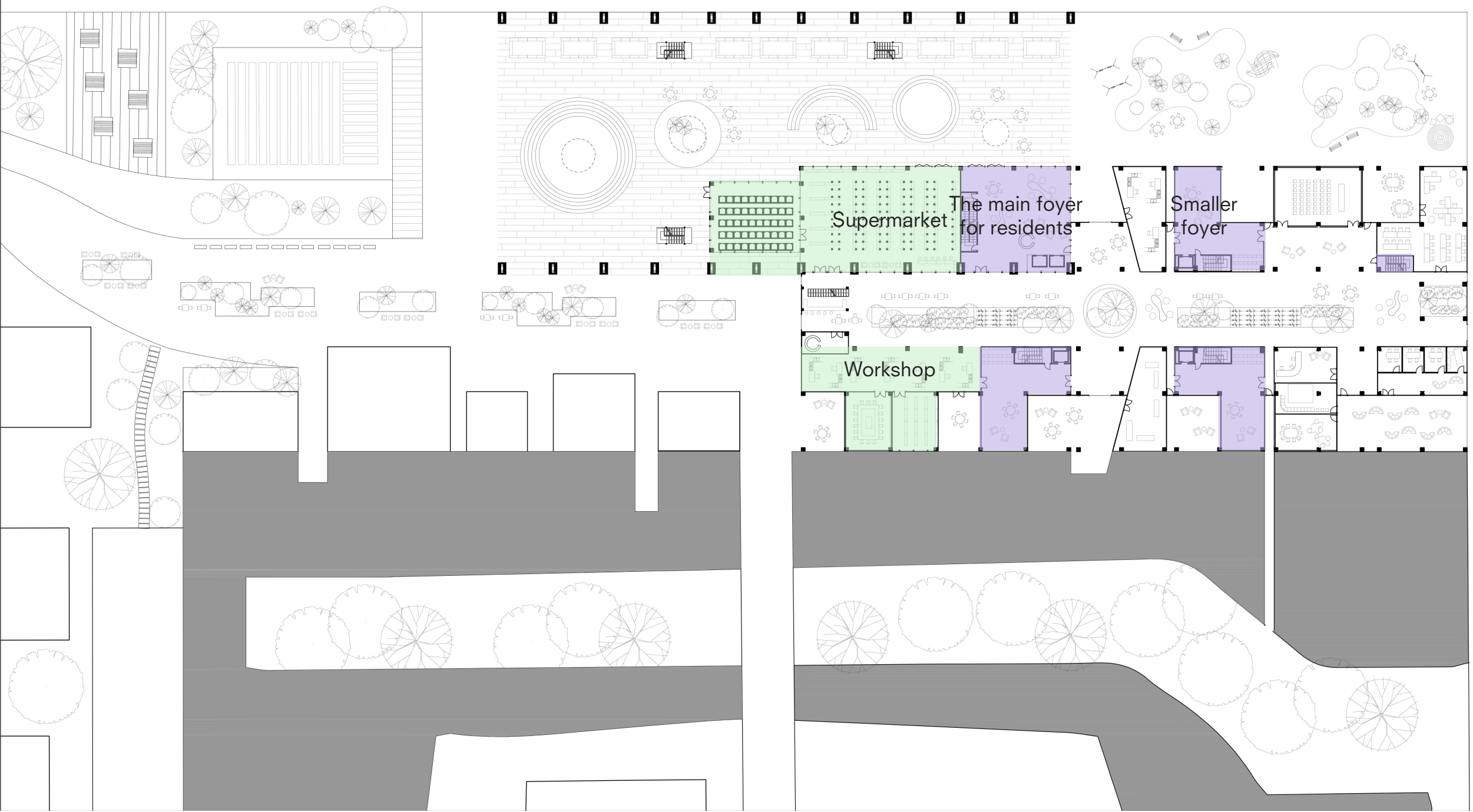
## Outdoor gardening + Indoor LED farming







# 6.GO DOWN TO SERVE THE COMMUNITY





## **COMMUNITY LEVEL**

**Welcoming local people  
into the building**

**A visit to the building  
by a local...**



# Connecting two experiences



LOCAL COMMUNITY

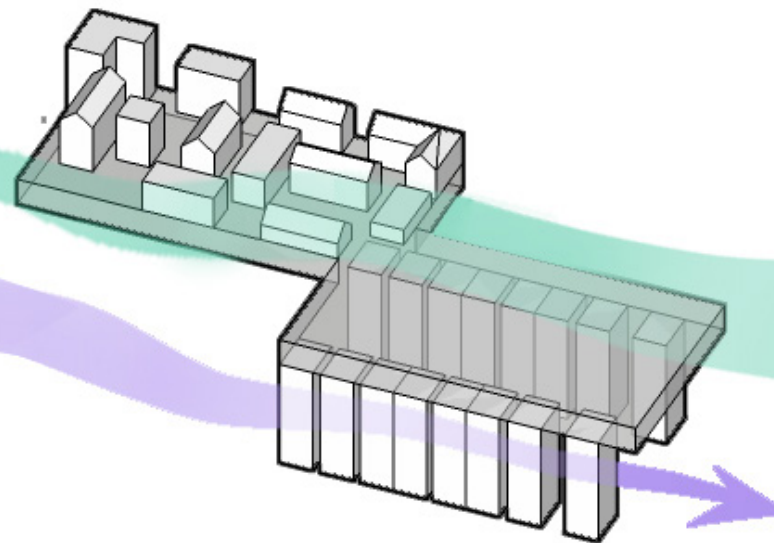


SPORTS FIELD



## INTERNAL STREET

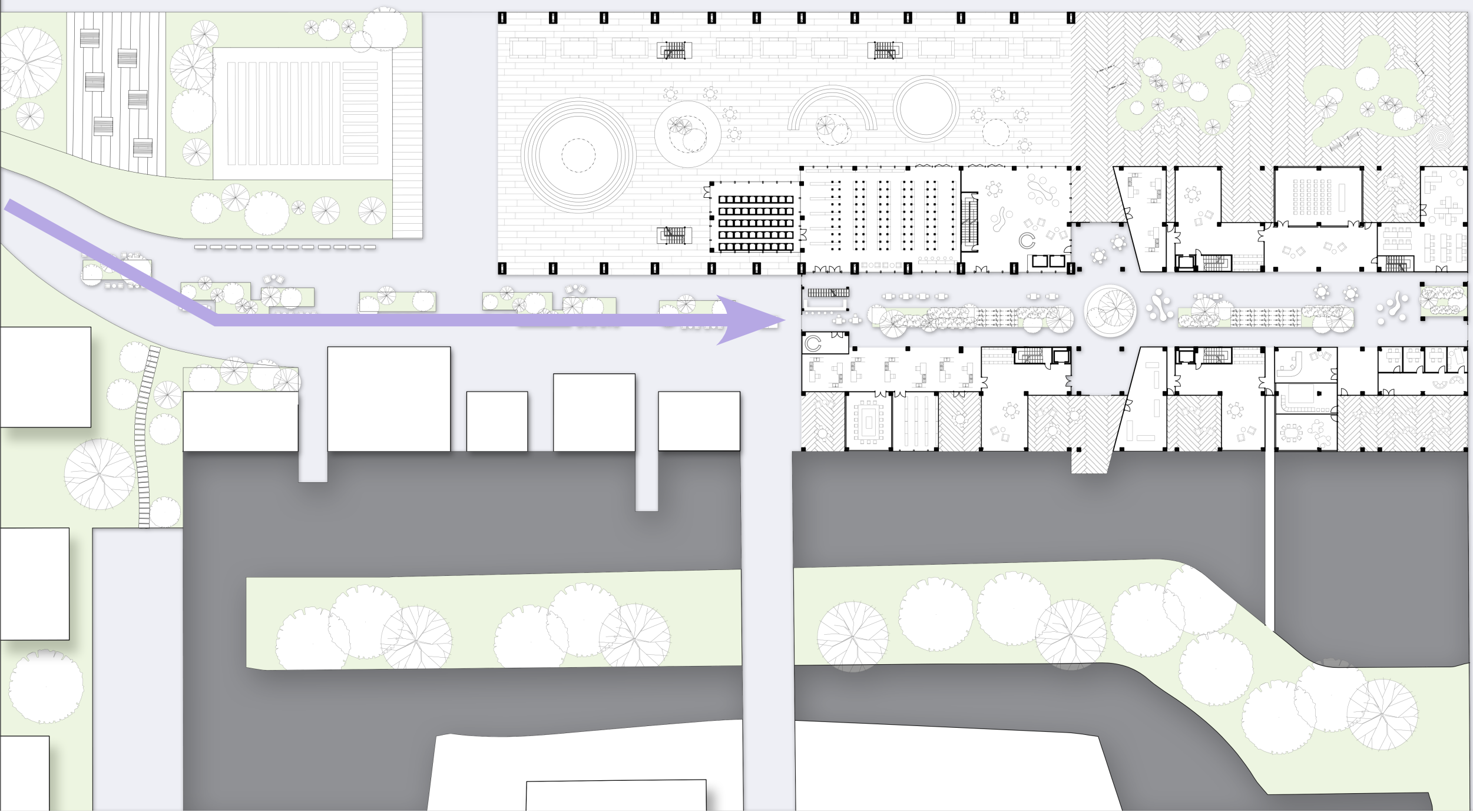
Allows public to pass through  
The place where the local and  
the NEETs mingle



## SEMI - OUTDOOR SPACE

Transitional space between  
the community green and  
the sports field

# 1. THE INTERNAL STREET

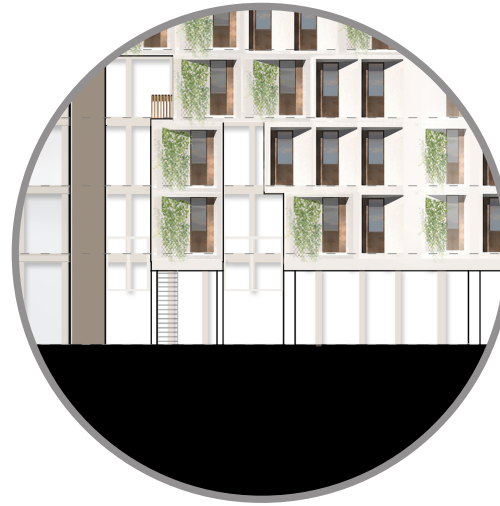




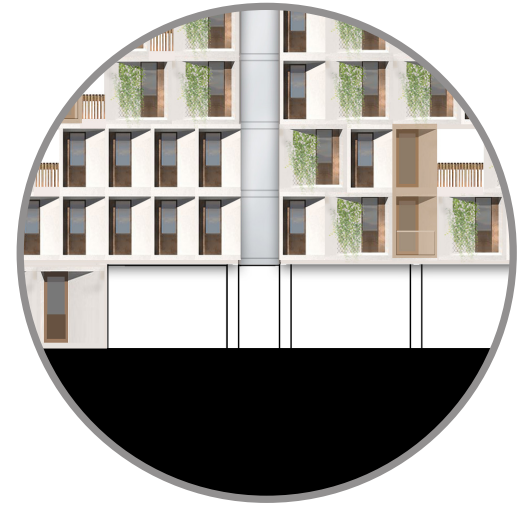




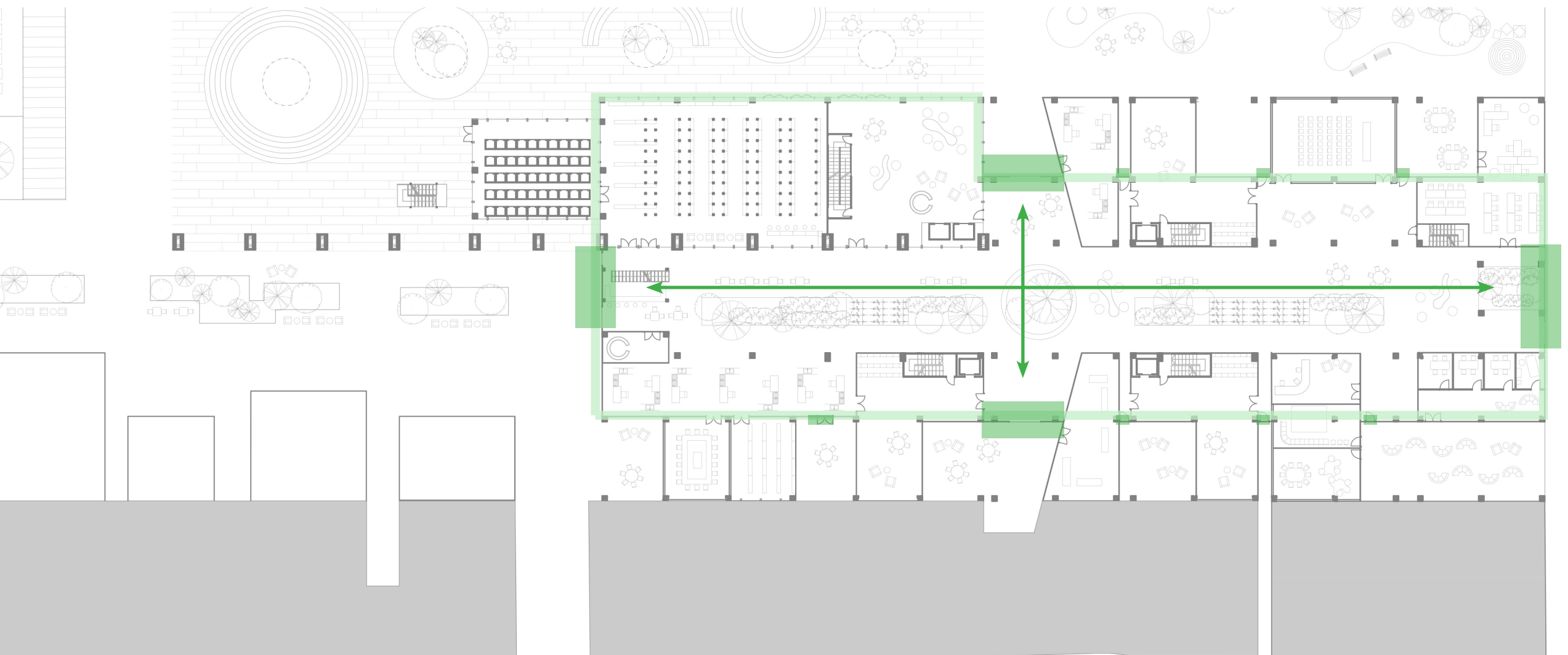
# ENTRANCE



4 Main entrance:  
Vertical upsliding doors



7 supplementary  
entrances







← abundant daylight

← air display screen

← Ornamental green combined with cultivation, extended from outside

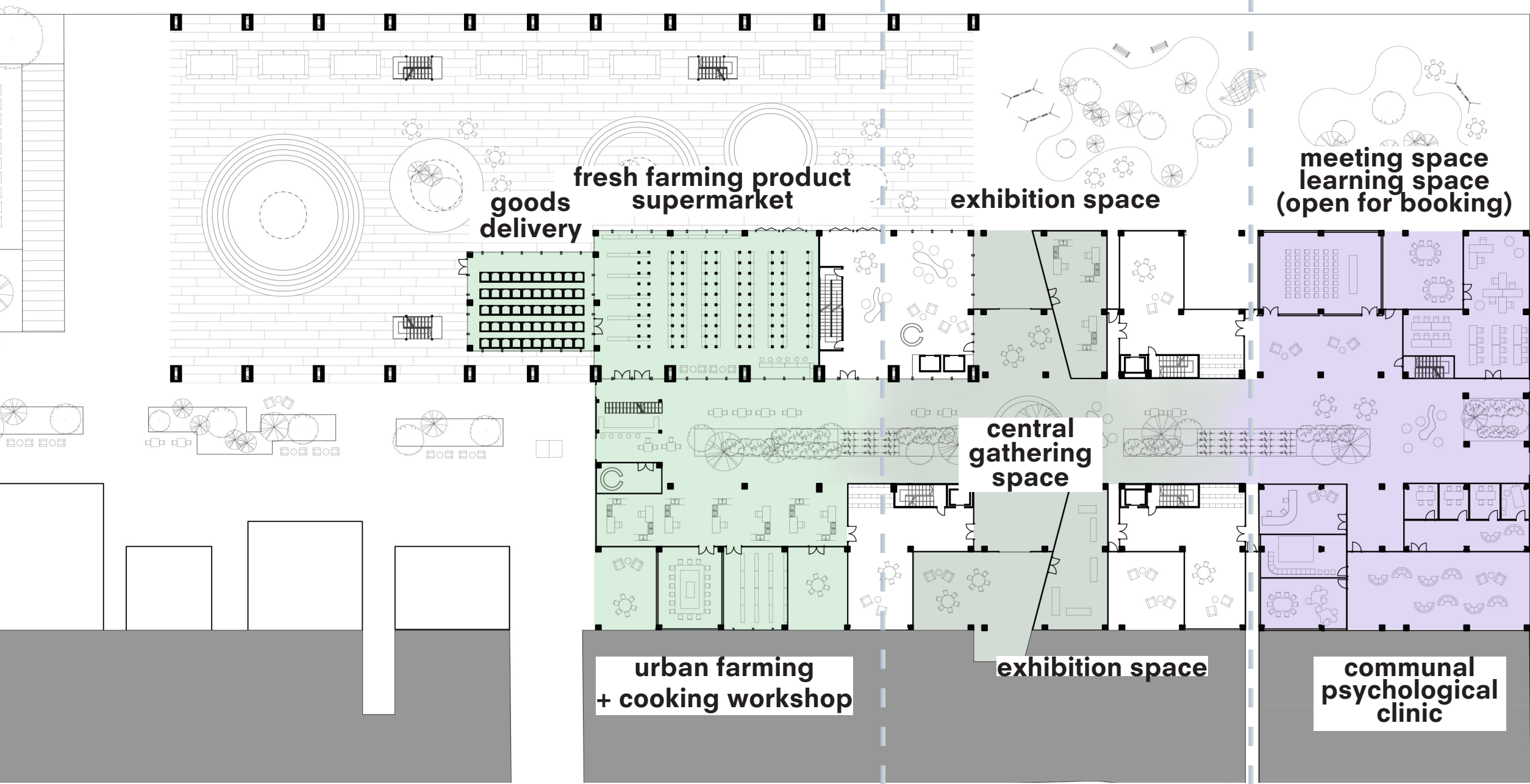


# THREE ZONES

## URBAN FARMING SERVICE

## ACTIVITIES & RECREATION

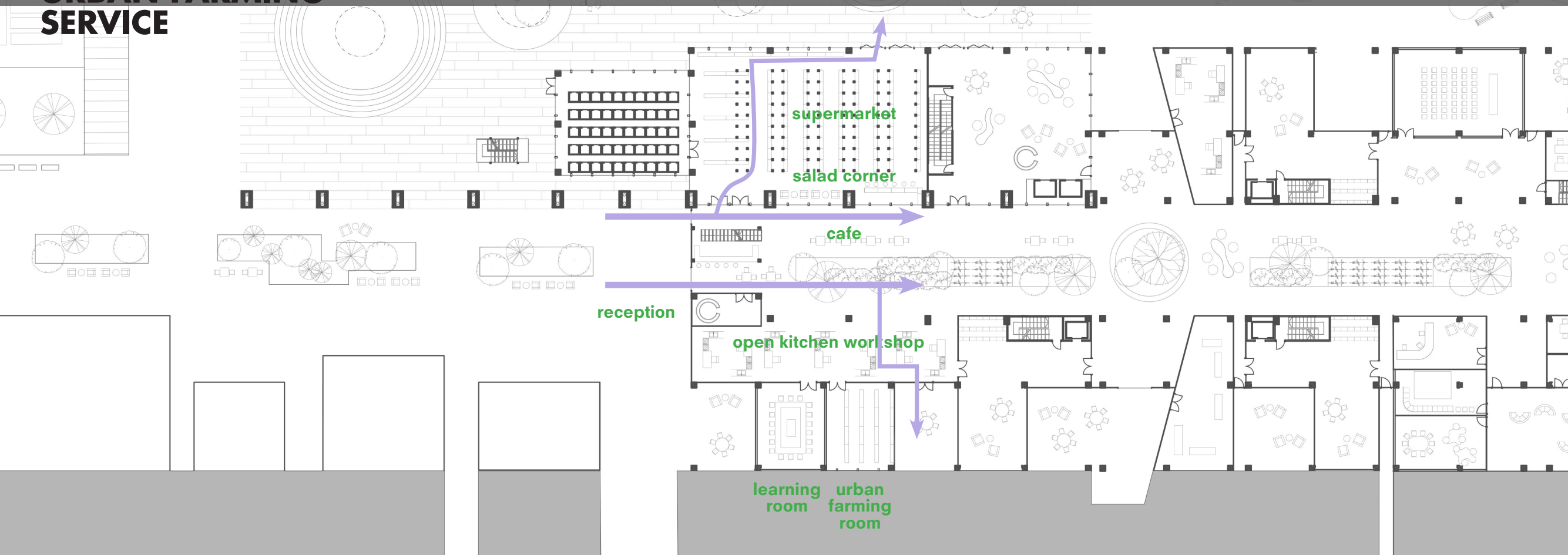
## SELF CARE & DEVELOPMENT

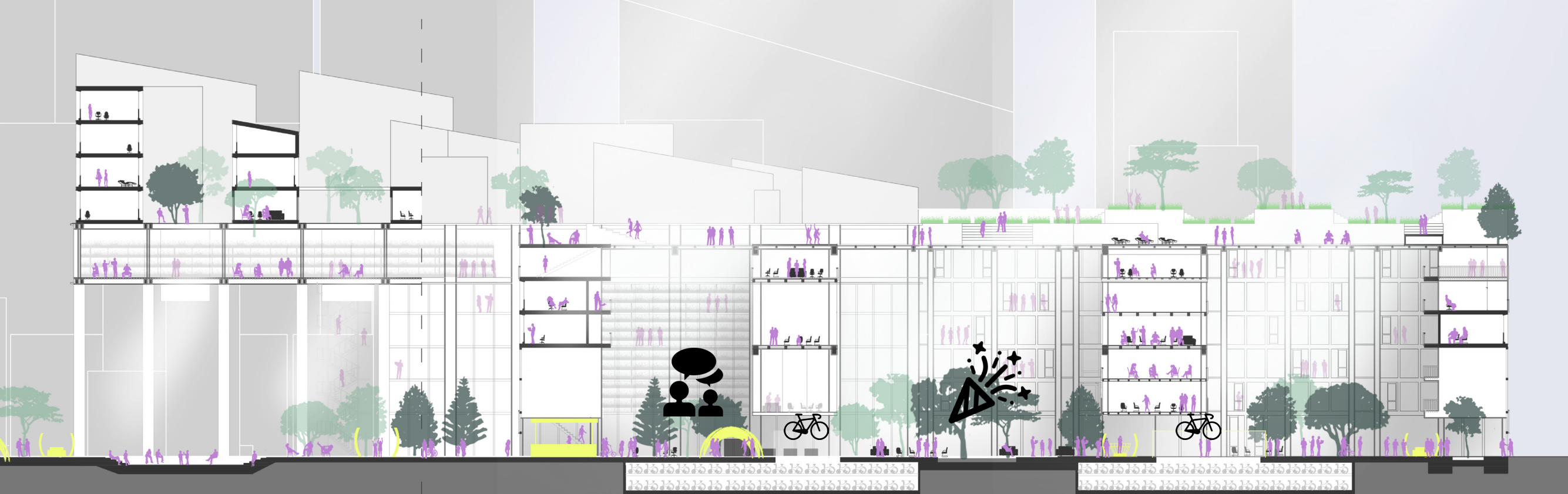




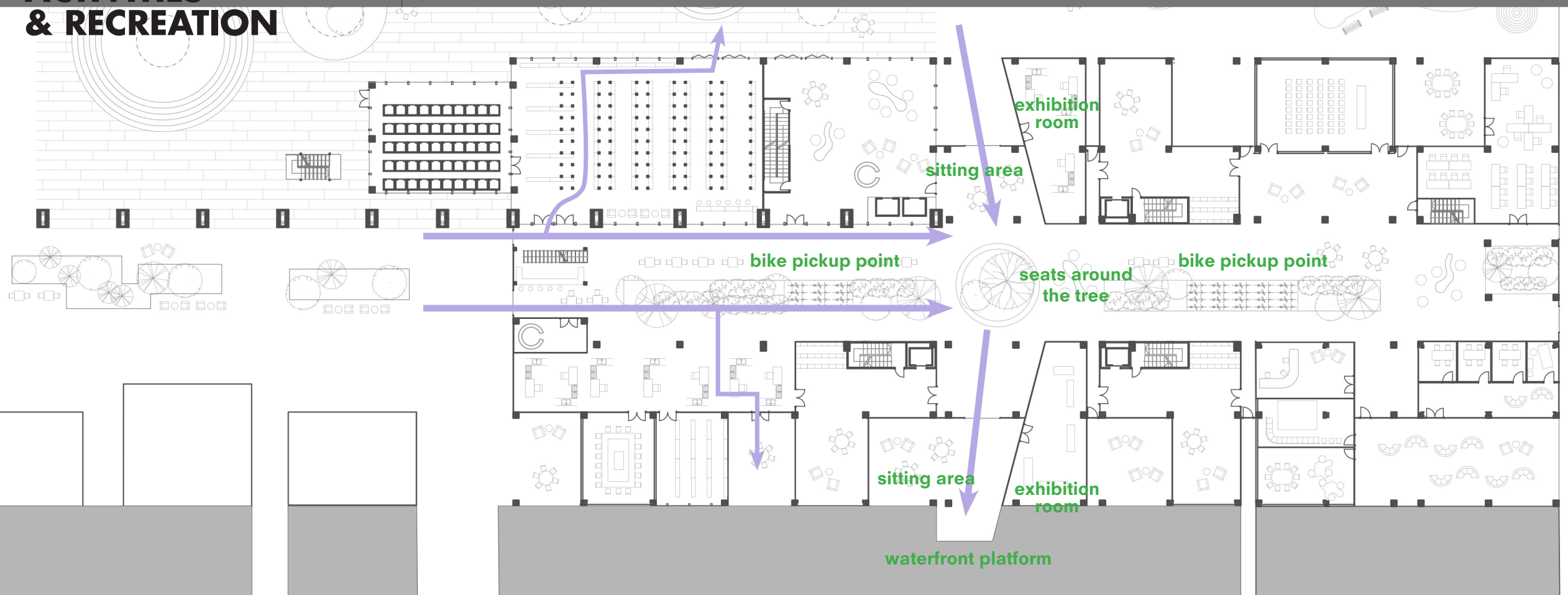


# URBAN FARMING SERVICE





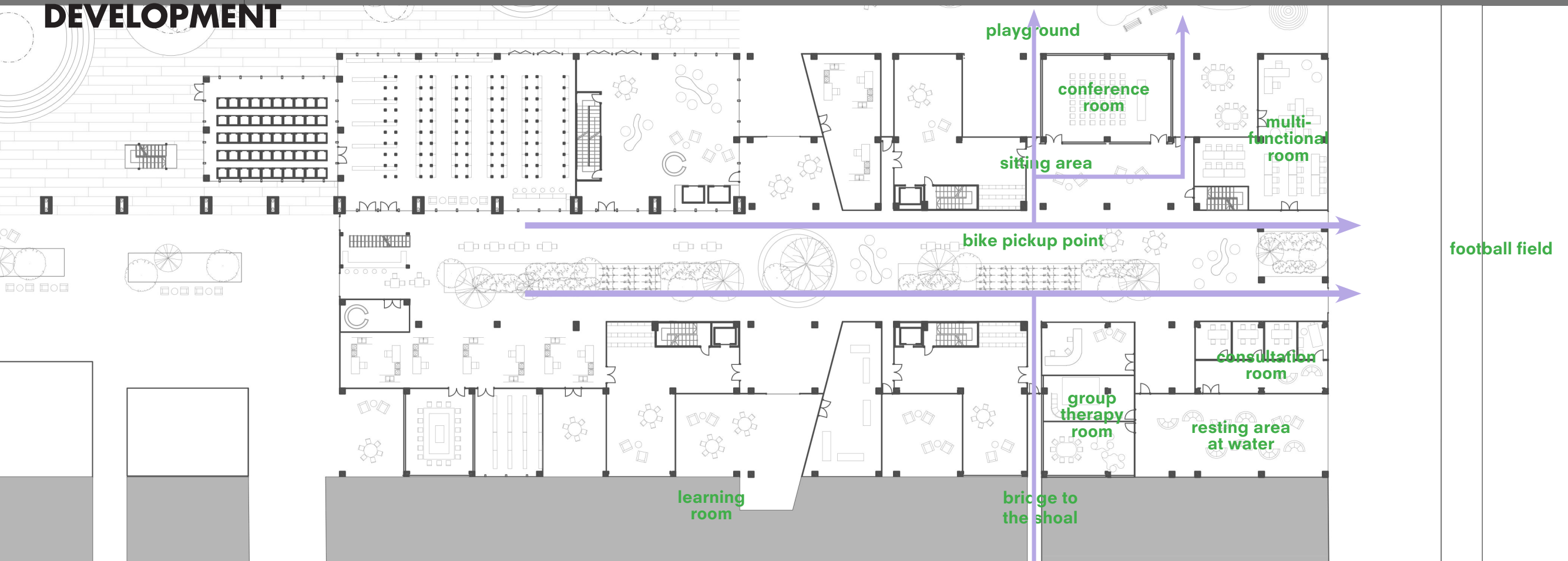
## ACTIVITIES & RECREATION







## SELF CARE & DEVELOPMENT





Vertical green from the cavity

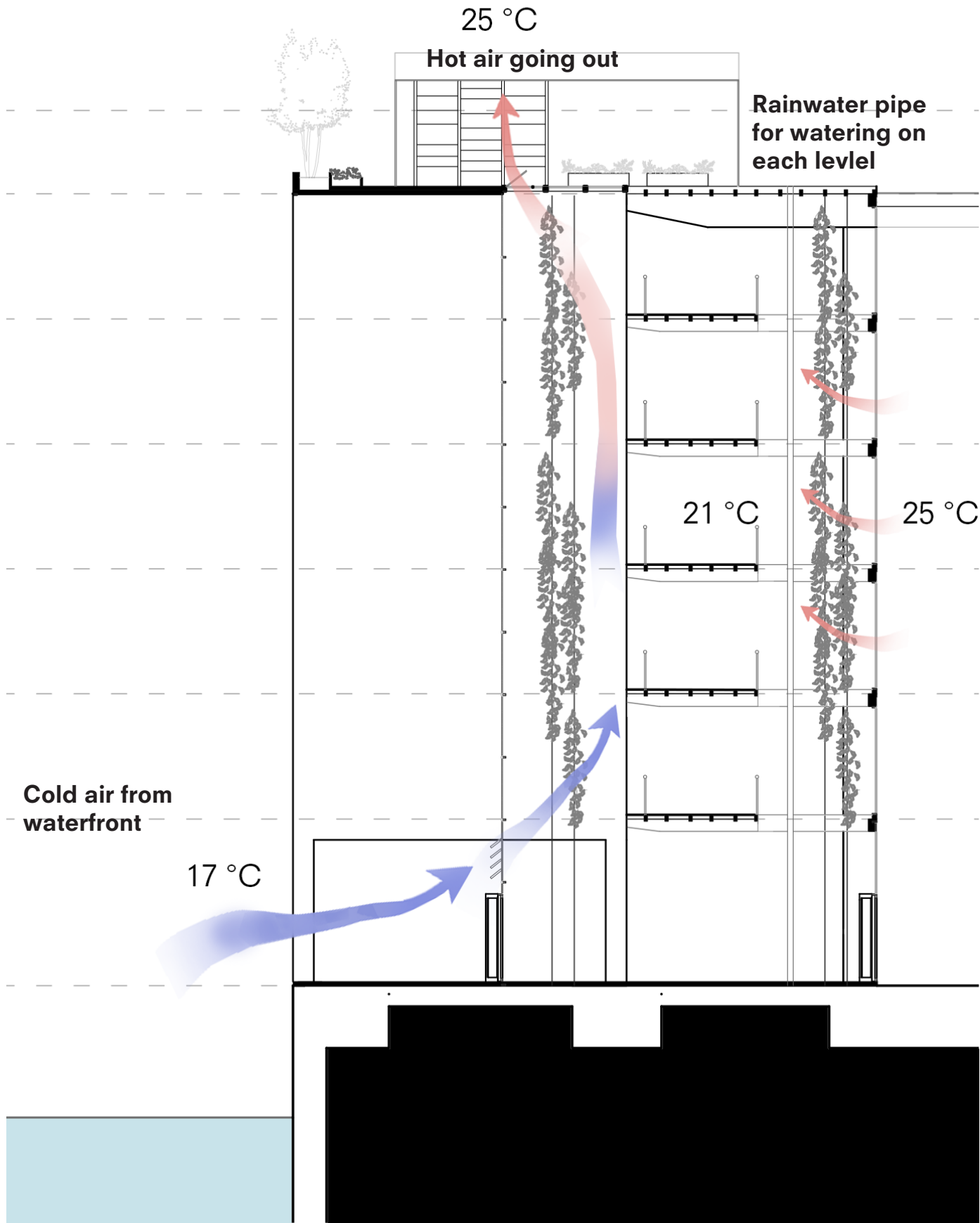
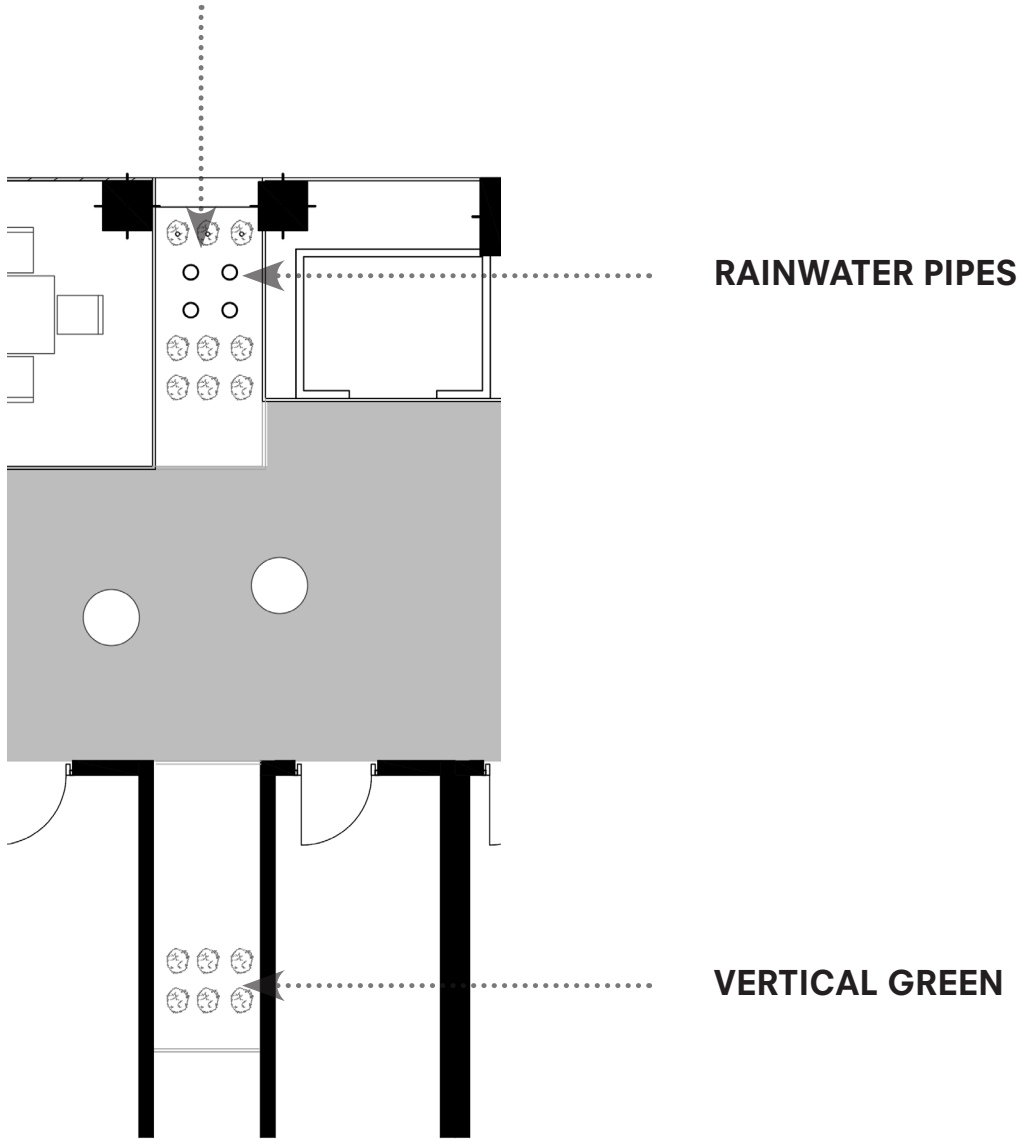
Bike pick up point

Light, view and access to the water side

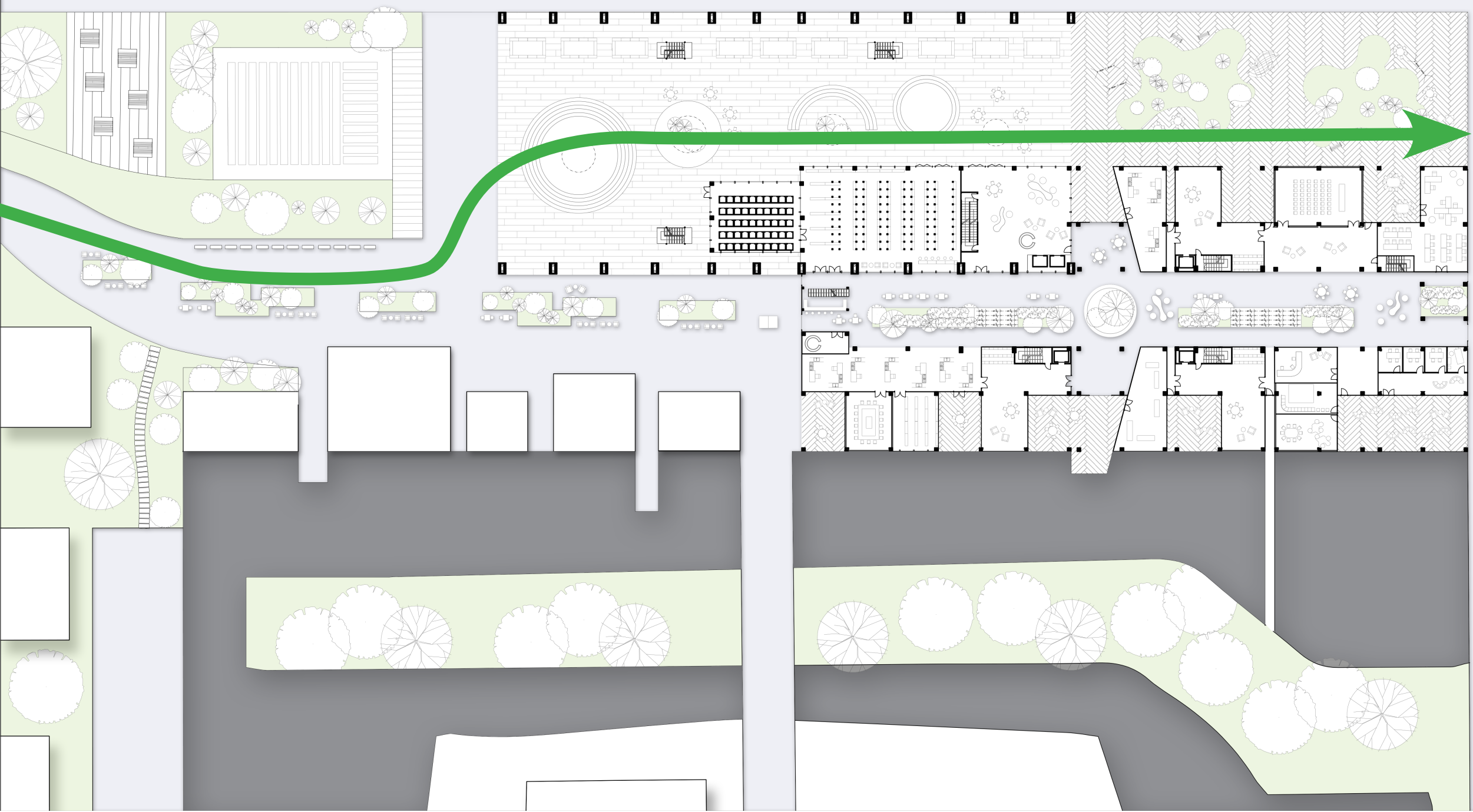




# GREEN CAVITY



## 2. SEMI-OUTDOOR SPACE









# LIGHT WELL





# CIRCULAR PLAZAS





# MIRROR CEILING





## **URBAN LEVEL**

**Reconcile between  
different areas**





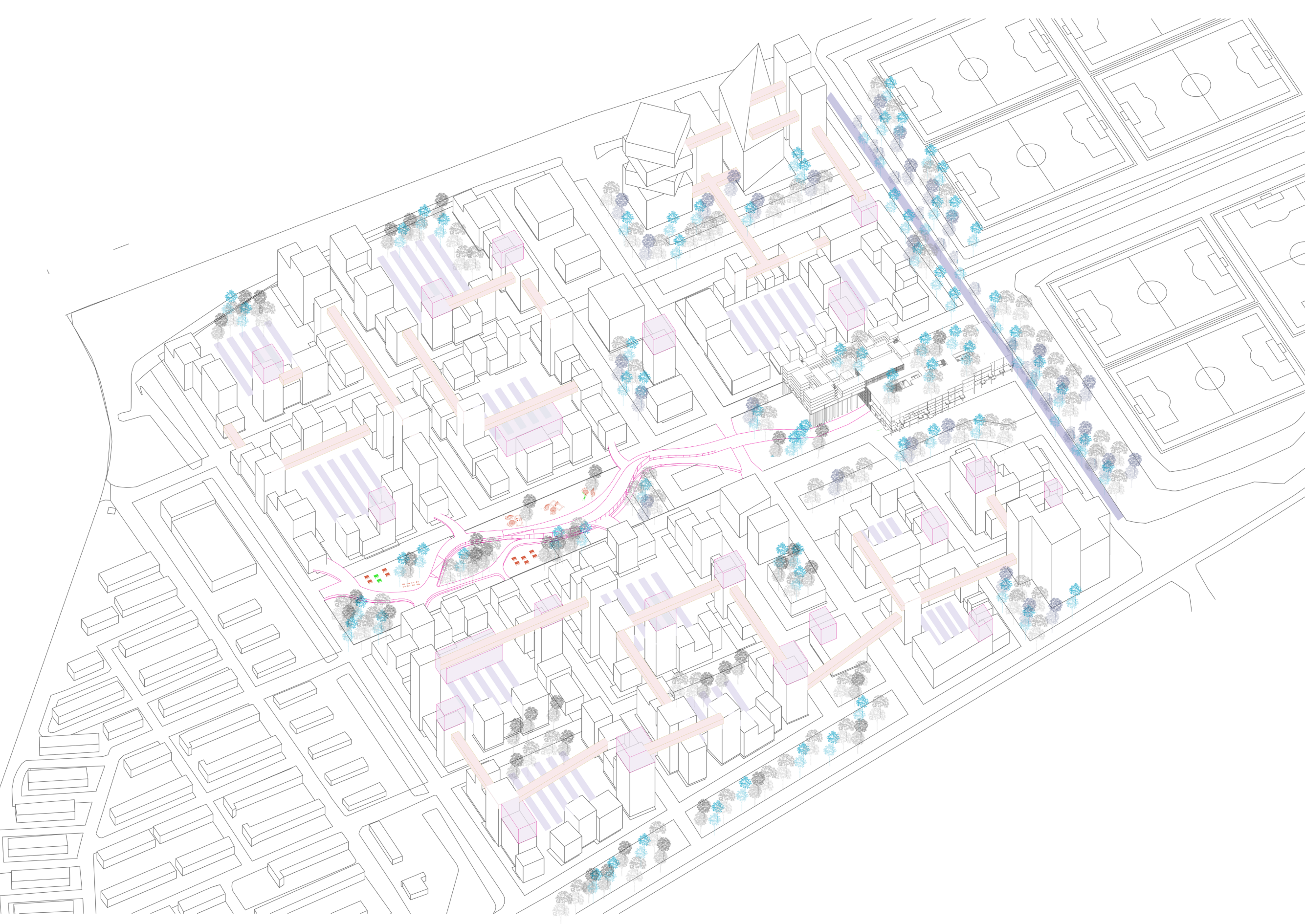
BOUNDARY  
BETWEEN  
TWO AREAS

UNDEFINED AREA  
HAS A RATHER CENTRAL  
POSITION IN  
THE COMMUNITY

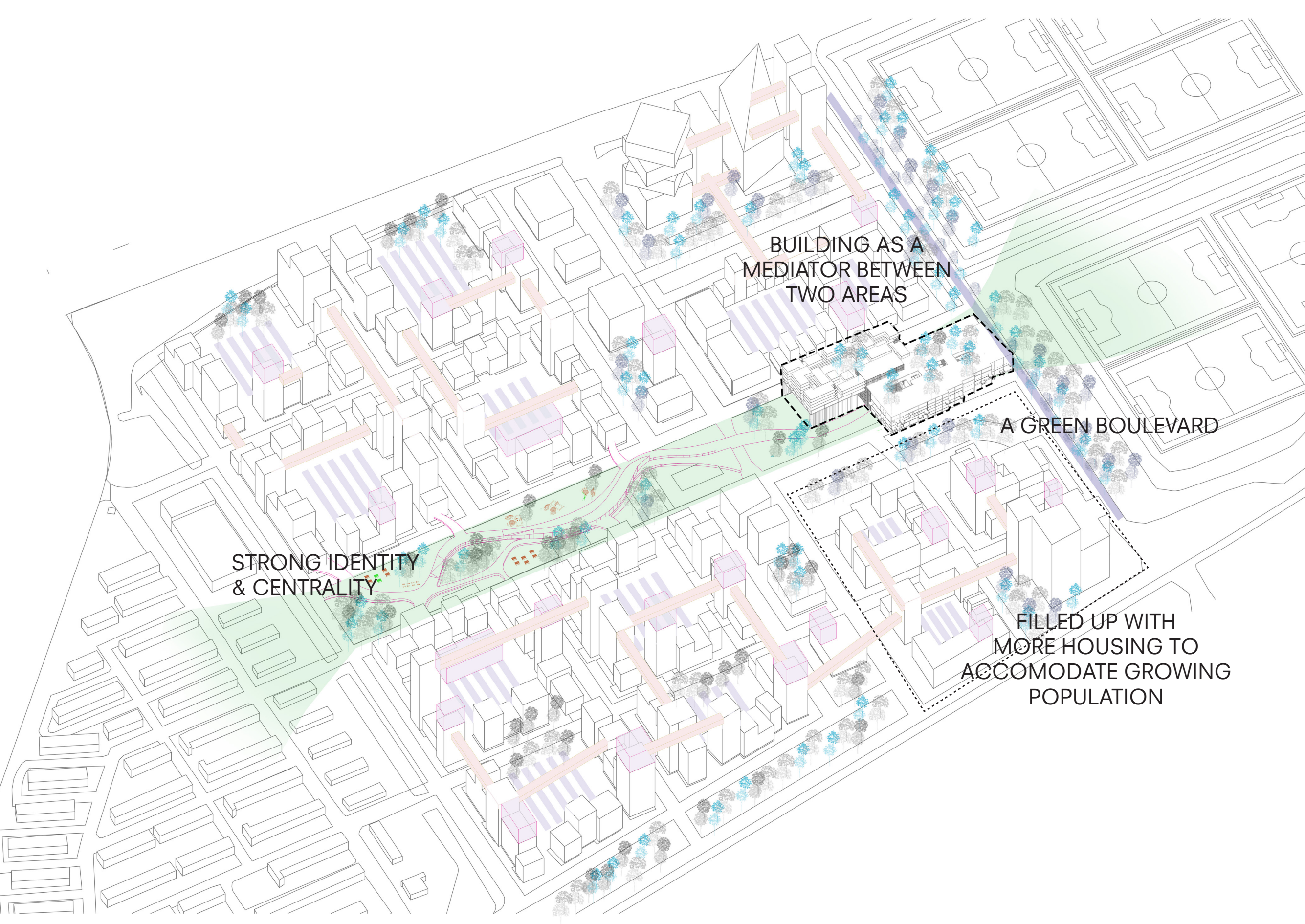
BROKEN BY THESE  
BUILDINGS

CENTRAL GREEN  
STRIP IS NOT  
STRONG ENOUGH









BUILDING AS A  
MEDIATOR BETWEEN  
TWO AREAS

A GREEN BOULEVARD

STRONG IDENTITY  
& CENTRALITY

FILLED UP WITH  
MORE HOUSING TO  
ACCOMMODATE GROWING  
POPULATION





ACTIVITY  
AREA

PLAYGROUND

WORKSHOP & GREENHOUSE

OUTDOOR  
CULTIVATION

OUTDOOR  
CULTIVATION

WORKSHOP & GREENHOUSE

GARDENING

WORKSHOP & GREENHOUSE





OUTDOOR CULTIVATION

PLAZA & MARKET

PLAYGROUND

SPORTS FIELD

WORKSHOP & GREENHOUSE

COMMUNAL SERVICES

GREEN SHOAL





# **MATERIAL & CONSTRUCTION**

**Natural & sustainable**



# TIMBER



Warm & relaxing

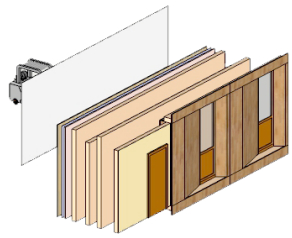


Environmental friendly

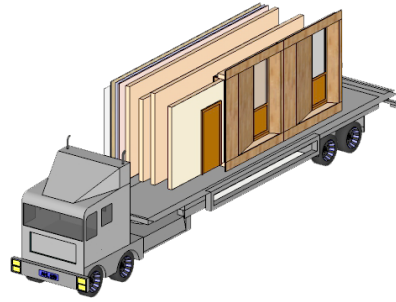


Future construction  
material

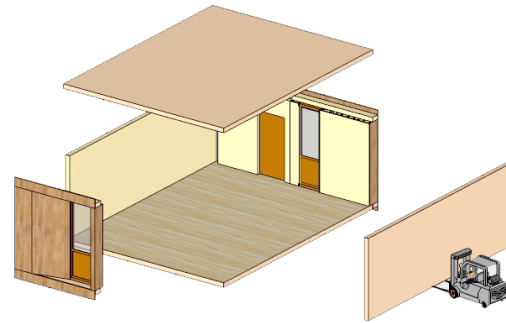
# PREFABRICATION



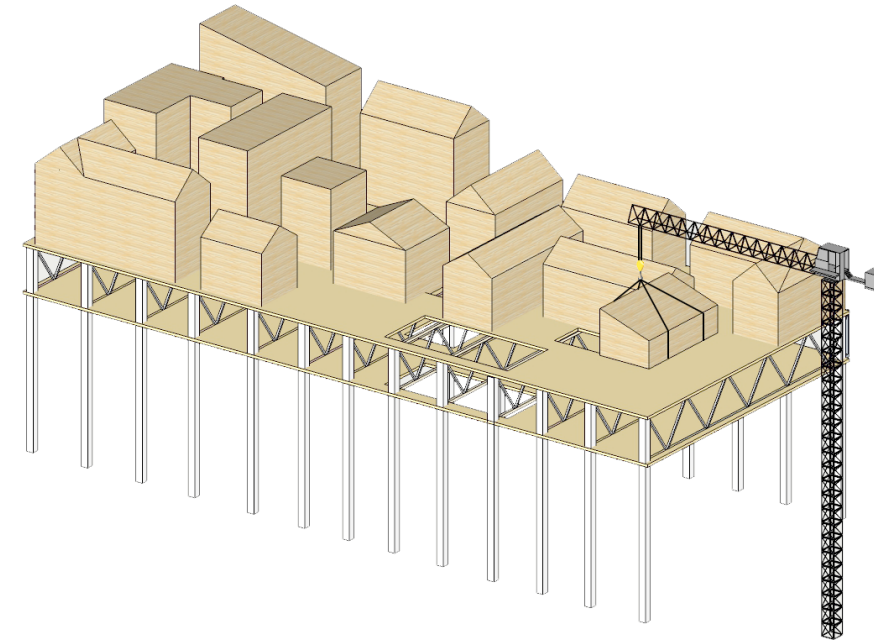
**Factory prefabrication**  
wall, floor, facade panel



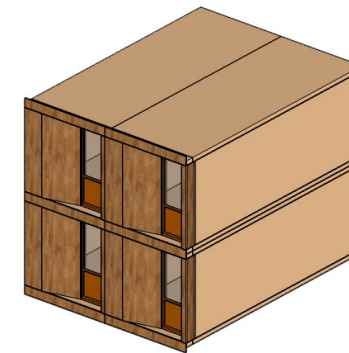
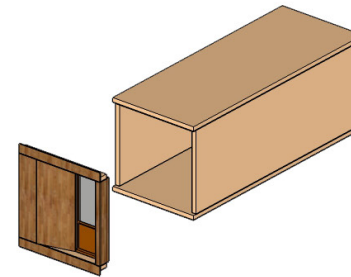
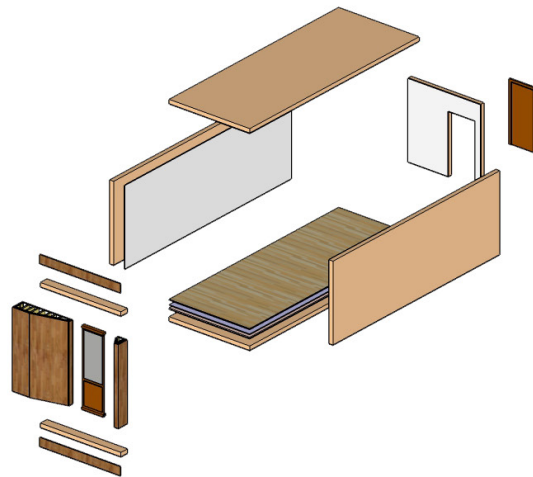
**Transport**  
automatic trucks



**Site**  
fitting of panels



**Site**  
fixing buiding blocks to platform



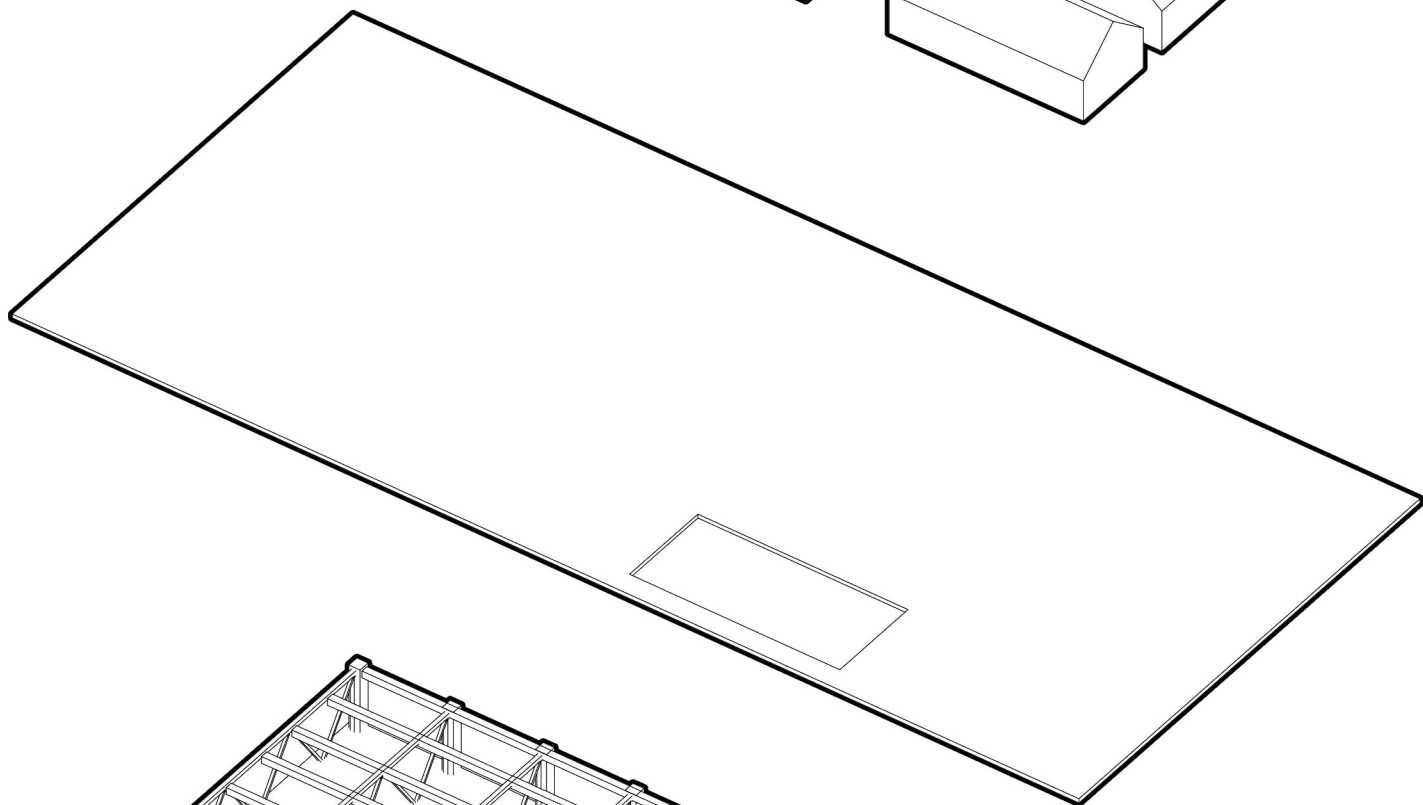
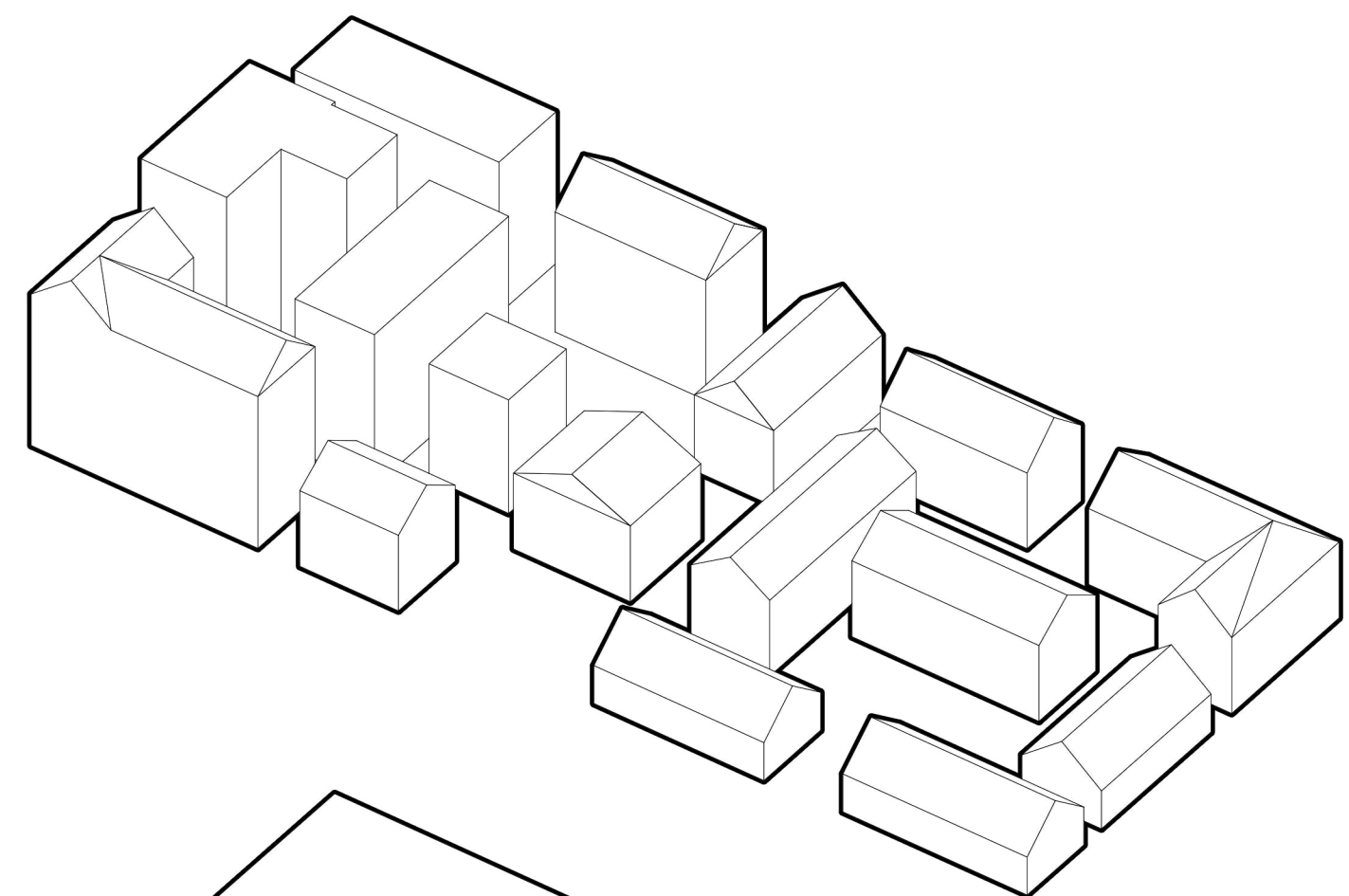




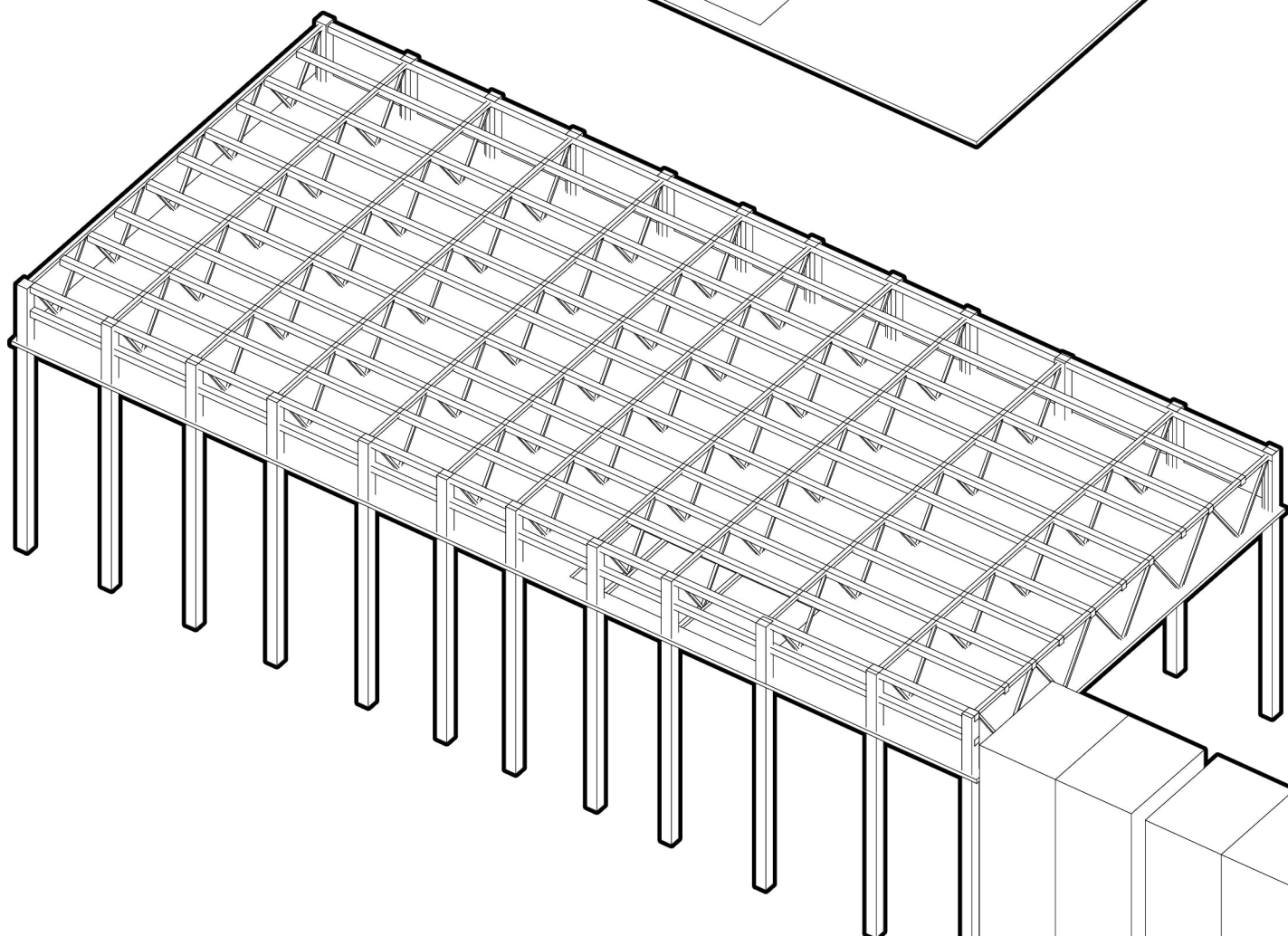
**Rhythm of facade as  
visual connection**



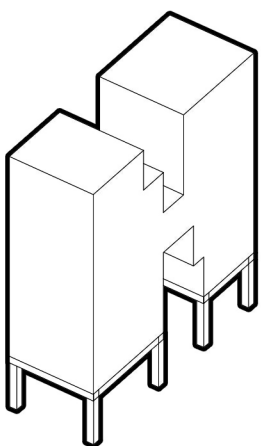
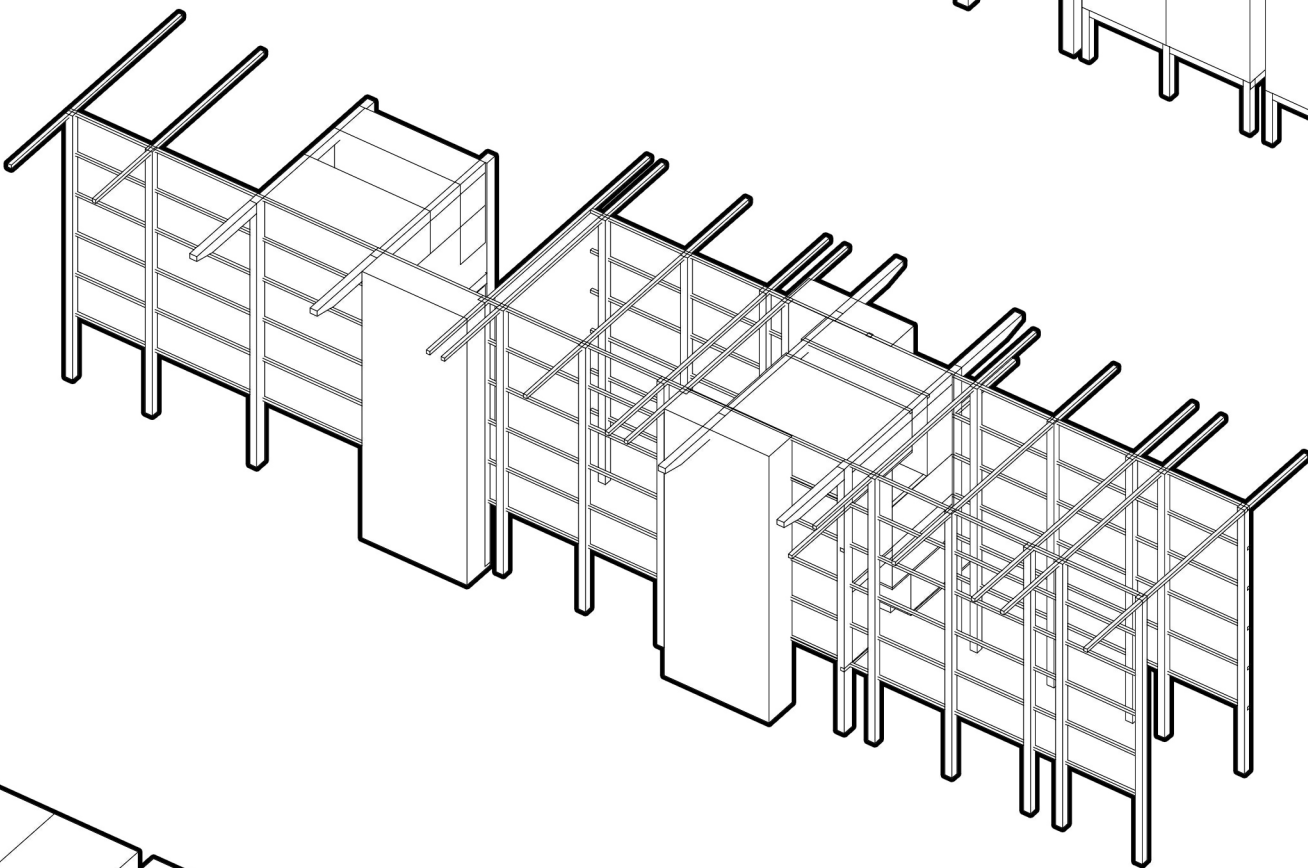
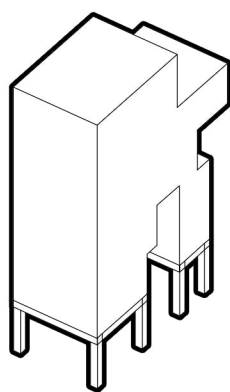
flexible



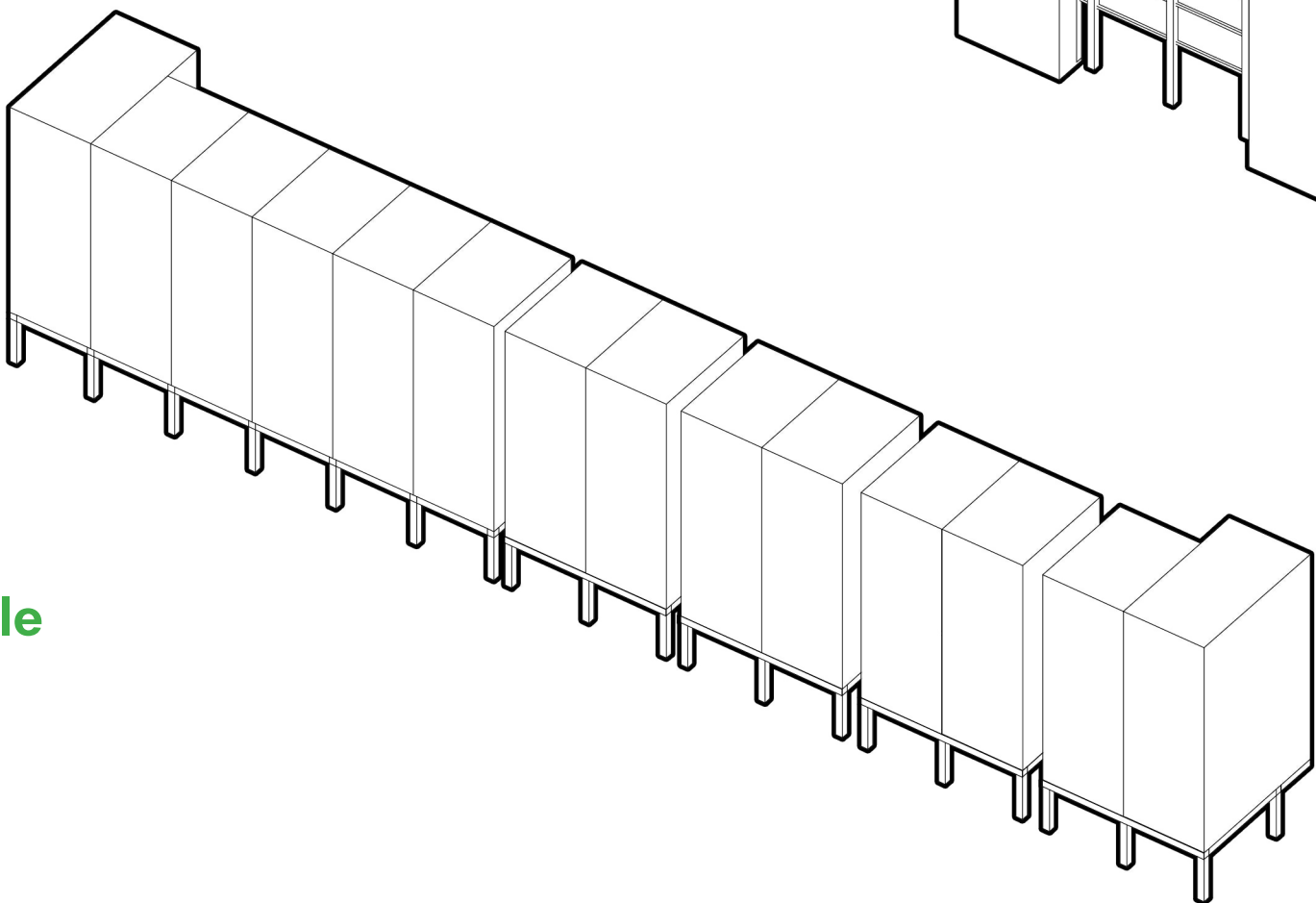
fixed



fixed



flexible



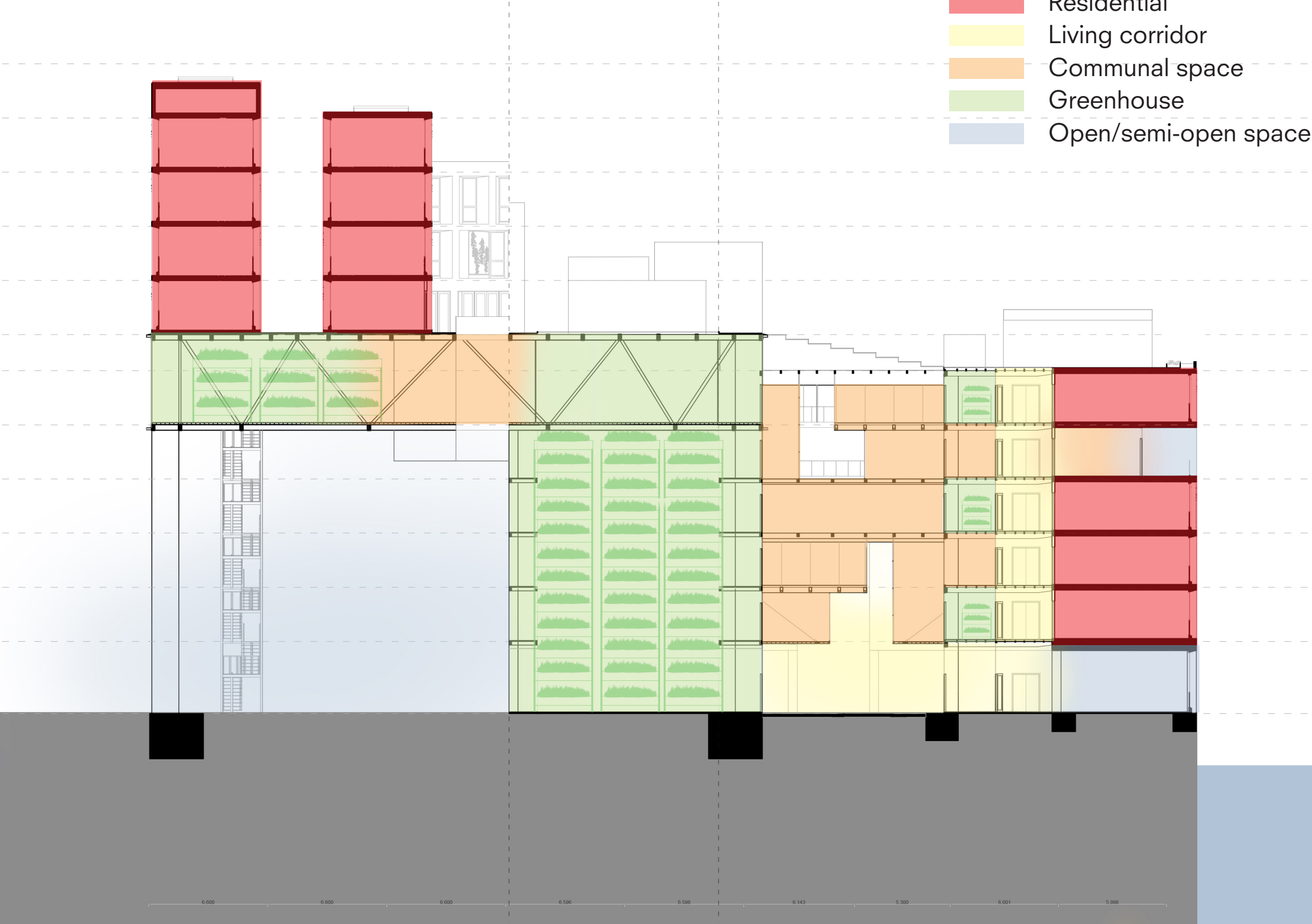


**CLIMATE**

**Smart use of  
green elements**

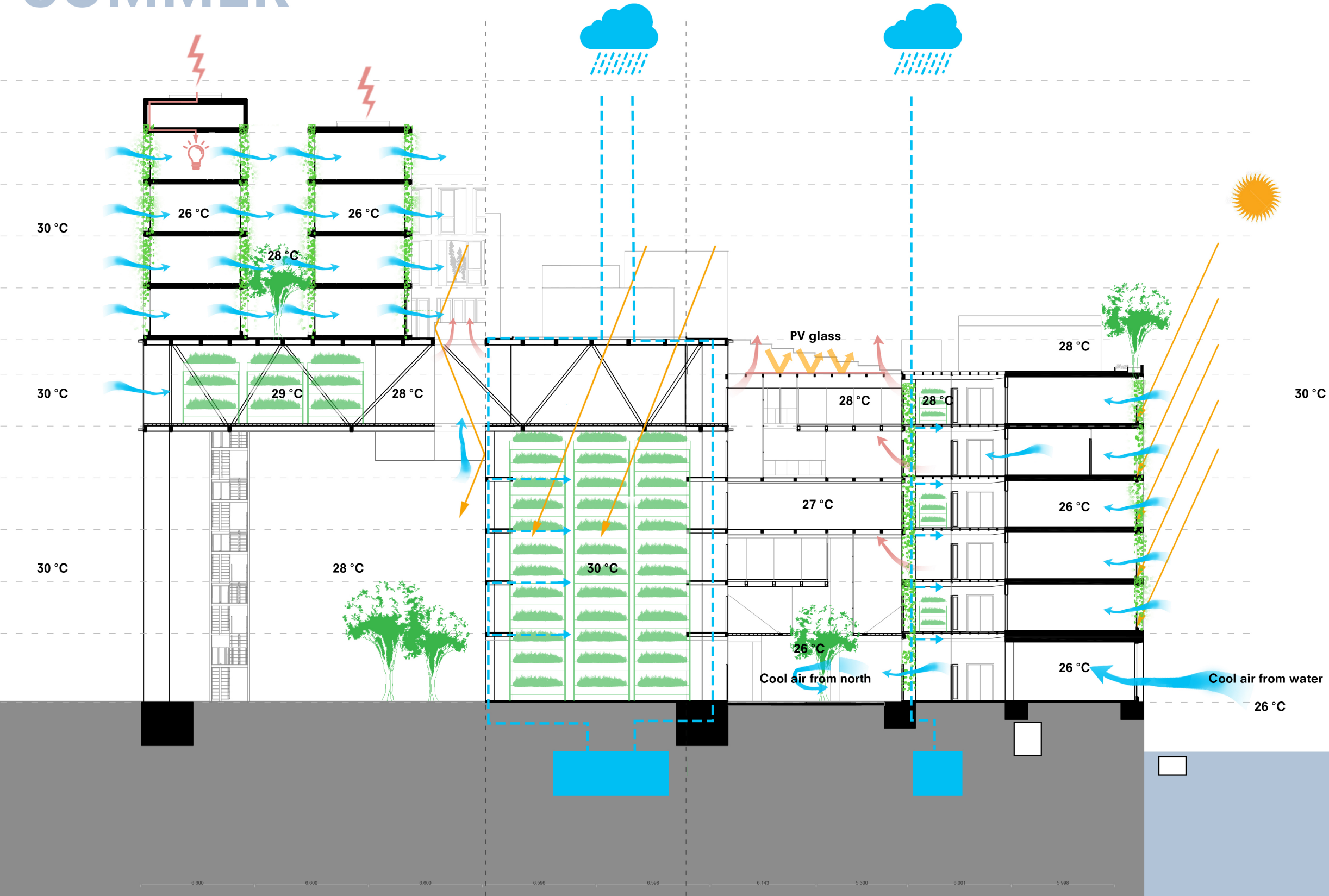
# DIFFERENT TEMPERATURE ZONES

- Residential
- Living corridor
- Communal space
- Greenhouse
- Open/semi-open space

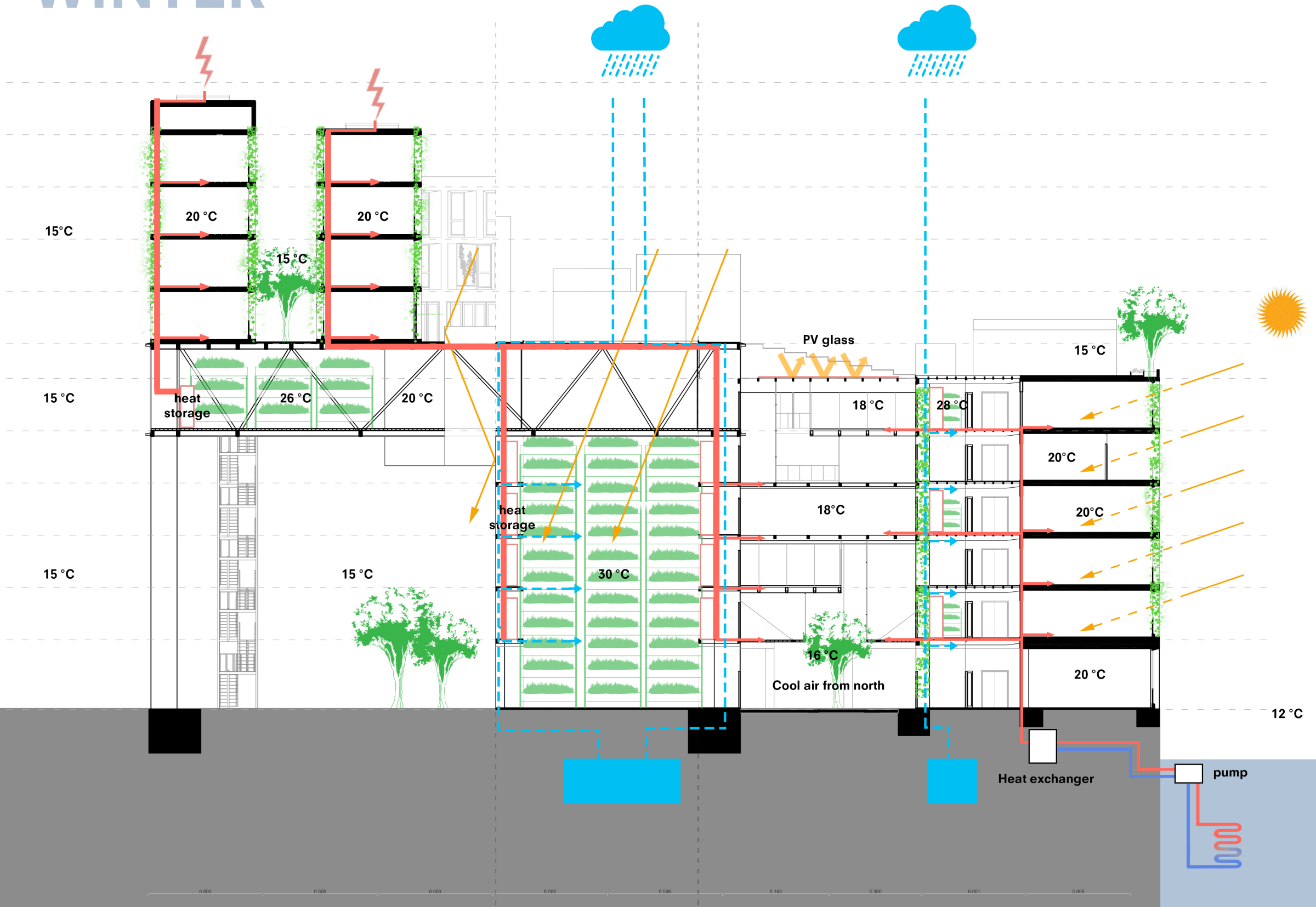




# SUMMER



# WINTER





# CONCLUSION



# INDIVIDUAL LEVEL



- Two types of collective living

# BUILDING LEVEL



- Connecting two stages of residents
- Connecting working and leisure

# COMMUNITY LEVEL



- An essential part of the bigger community & serving the locals

# URBAN LEVEL



- A continuation of the green belt
- Reconcile between different areas



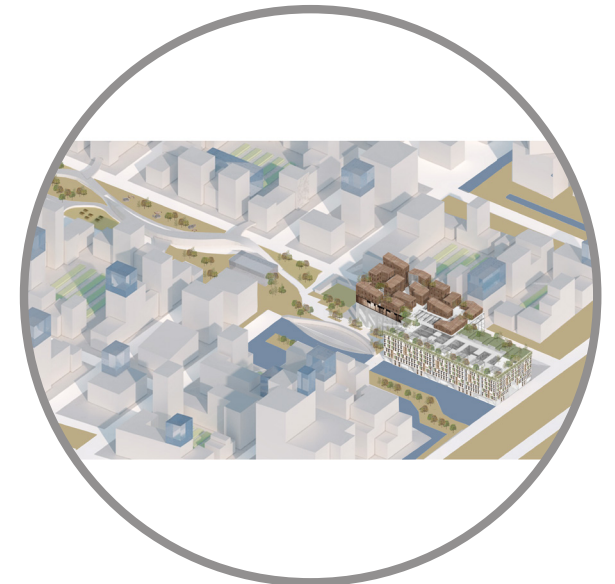
**HEALING  
SPACE**



**COMMUNITY  
CENTER**



**WORKING +  
LEISURE**



**GREEN  
CONNECTOR**



# THANK YOU

31/10/2019