

A photograph showing two small, green seedlings with several leaves each, growing out of a crack in a light-colored concrete or asphalt surface. The background is a blurred, textured ground. The text 'INTERSTICES OF FARMLAND' is overlaid in a white box on the left side of the image.

**INTERSTICES
OF FARMLAND**



ROME

LOCATION



Della Vittoria

Parioli

Fiaminio

Trieste

Trionfale

Pinciano

Salario

Nomentano

Prati

Borgo

Colonna

Castro Pretorio

Tiburtino

Aurelio

San Lorenzo

Rome

Esquilino

Trastevere

Celio

Ripa

San Giovanni

Monteverde

Testaccio

Appio-Latino

Gianicolense

Garbatella

Portuense

Ostiense

**DO NOT
LIE OR OTHERWISE
BE IN A
HORIZONTAL
POSITION ON
A PARK BENCH**

**DO NOT
SLEEP OR REMAIN
IN ANY BUSHES,
SHRUBS OR FOLIAGE**

PER CITY CODE SEC. 18A.09(A) AND (O)

A photograph showing a person sleeping on a blue sleeping bag. The sleeping bag is placed on a wooden pallet on a dirt ground. A white plastic sheet is partially visible under the sleeping bag. In the background, there is a concrete pillar and some green plastic bottles on the ground.

HOMELESS

01 absence of conventional permanent housing

HOME

is where the

Heart is

A photograph of a person sleeping on a blue sleeping bag on a wooden pallet on a dirt ground. The person is completely covered by the sleeping bag, with only their head and hands visible. The background shows a concrete wall and a dirt ground with some litter.

HOMELESS

01 absence of conventional permanent housing

02 no link between the individual and the larger society

03 to be the incumbent of a basic role or master status

LOCATION



Gianicolense

Testaccio

Italgas and
Gasometro

Mira Ianza
Complex

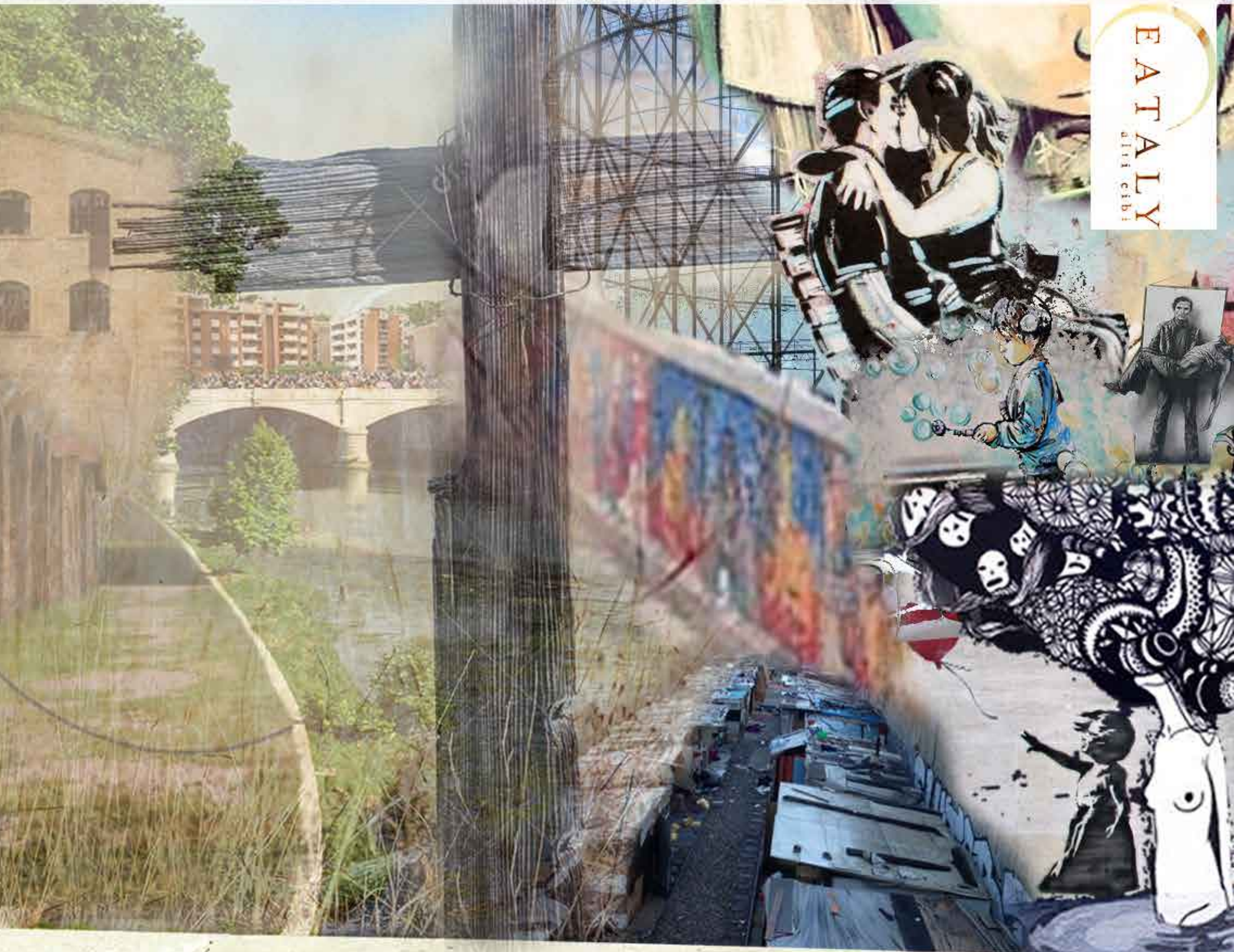
Portuense

Garbatella

Ostiense

San Paolo

ASPECTS of the site



EAT TALLY
dini cibi

LOCATION



Gianicolense

Testaccio

Mira Ianza
Complex

Portuense

Ostiense

San Paolo

Garbatella





THEATRE INDIA





MIRAFIORA FACTORY



LOCATION



Testaccio

Gianicolense

Italgas and
Gasometro

Portuense

Ostiense

San Paolo

Garbatella



ITALGAS GASOMETRO



HISTORY OF FOOD

+

INDUSTRIAL SITES

+

HOMELESS



ANALYSIS



INTERSTICES OF MEMORY



ASPECTS of the site



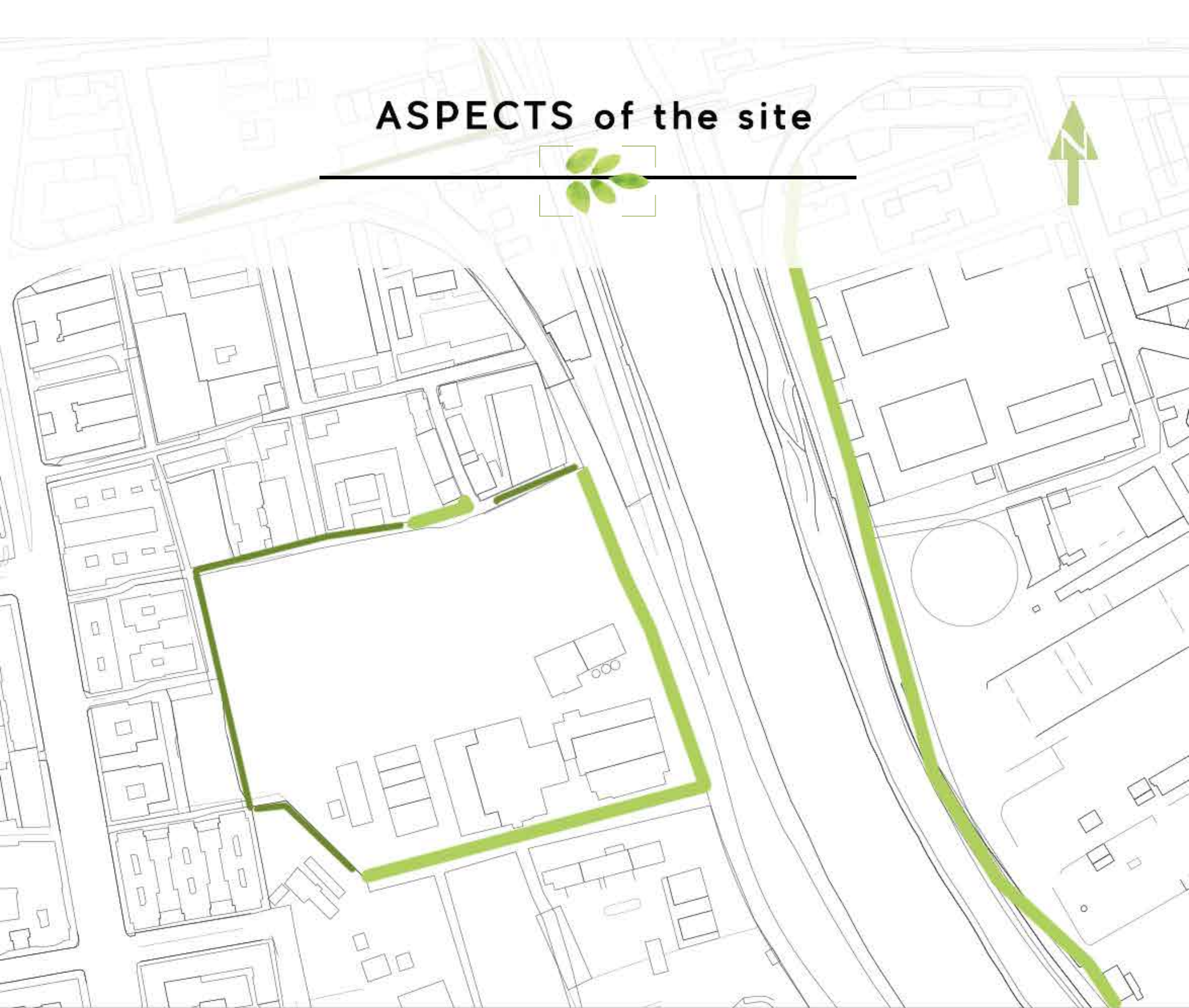
**urban fabric is composted
of triangles and squares...**

ASPECTS of the site



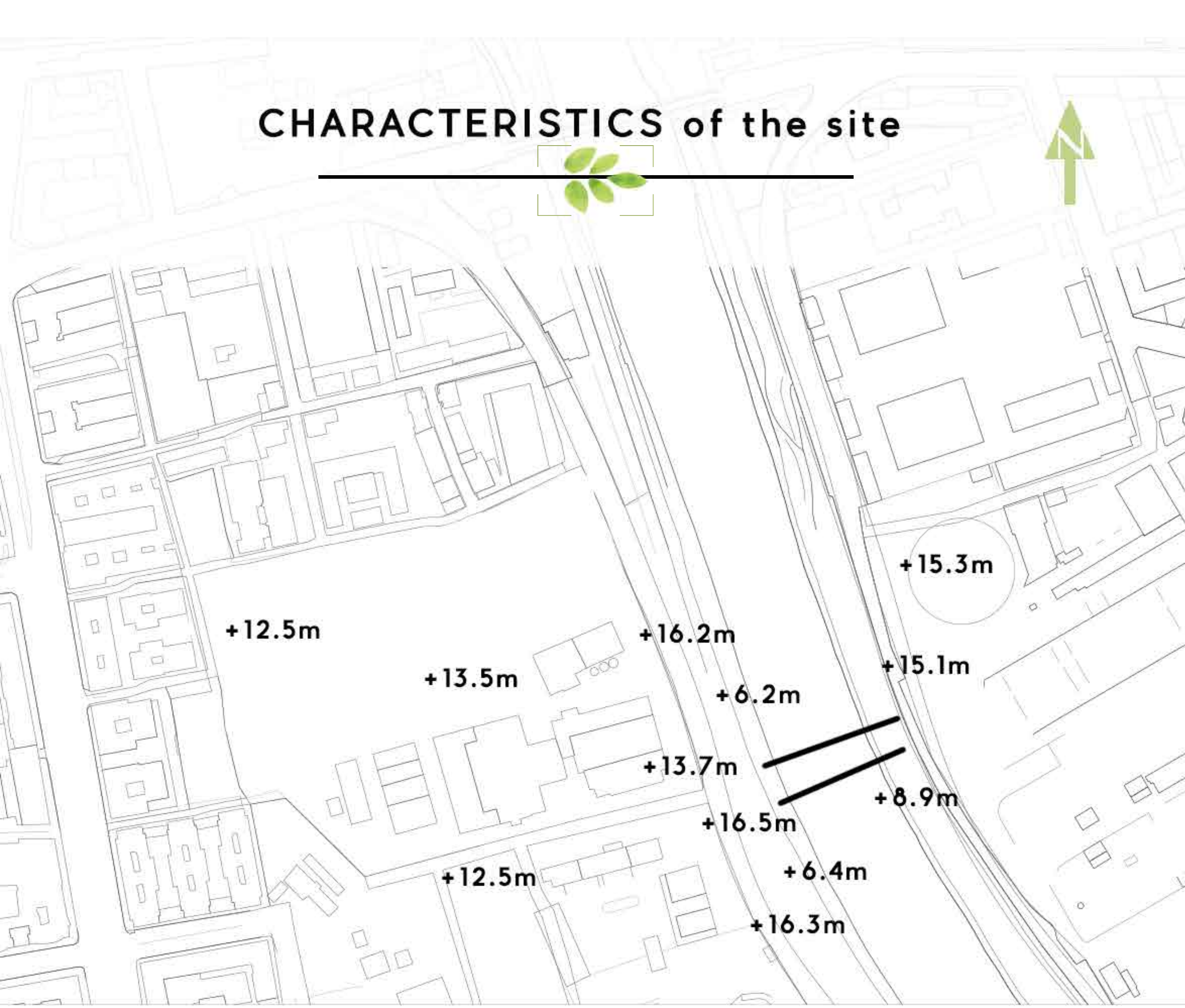
**clear grid in
the urban fabric...**

ASPECTS of the site



**delimitation of islands through stone walls,
fences, buildings on edge of the lot
difference in height from the ground level...**

CHARACTERISTICS of the site



ASPECTS of the site



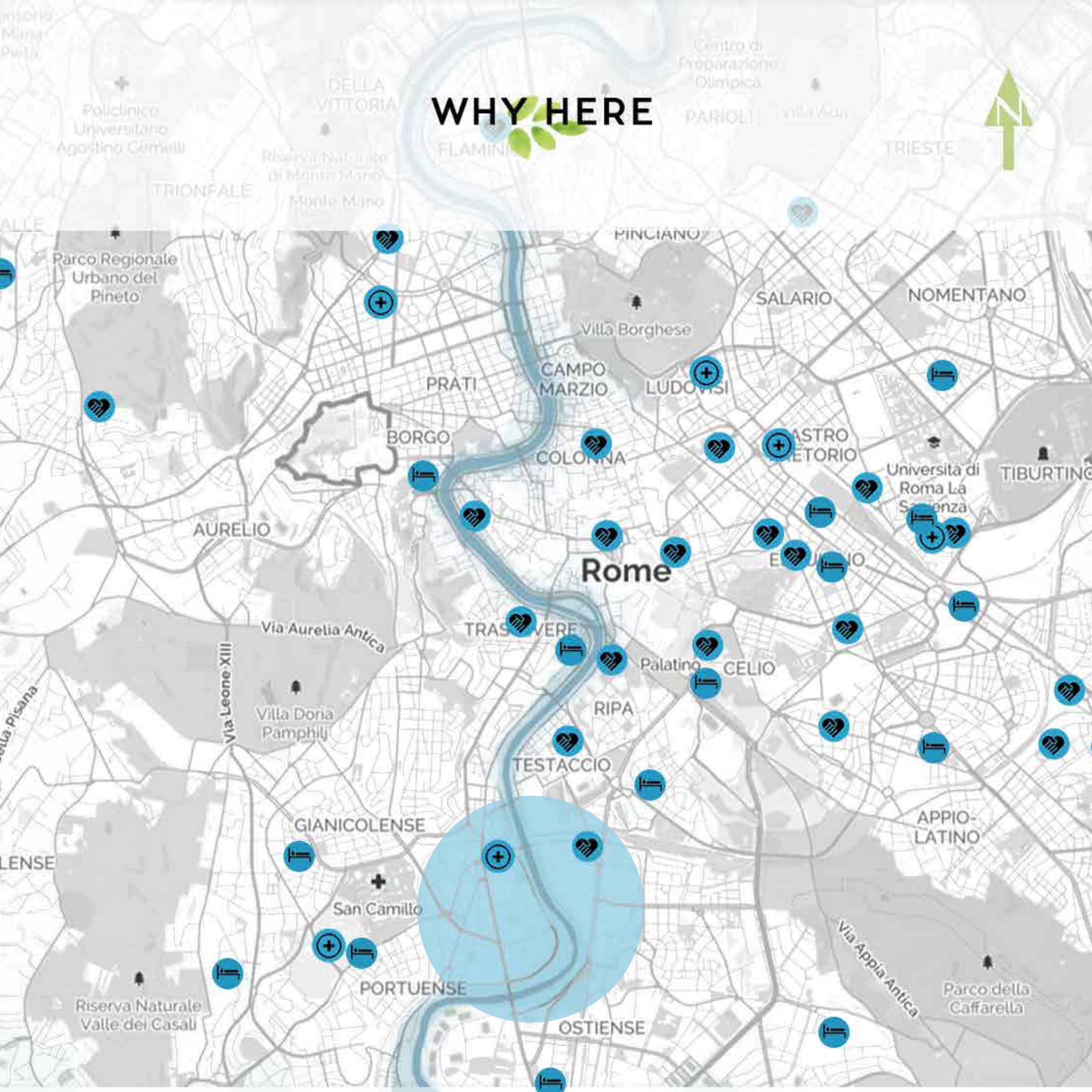
delimitation of islands through stone walls,
fences, buildings on edge of the lot
difference in height from the ground level...

A close-up photograph of a small green seedling with two leaves growing from a crack in asphalt. A tiny insect is perched on the stem of the plant. The background is a blurred asphalt surface.

**INTERSTICES
OF FARMLAND**

**WHO ARE THE
HOMELESS PEOPLE**

WHY HERE



WHO are the homeless



Numbers according IStats, the Ministry of Welfare, the fio.PSD, the Caritas and Rodolfo De Benedetti Foundation along with the Bocconi University. 2014, 2015, 2016

WHO are the homeless



Italy

62% of the homeless became so after losing a job and where unable to pay the rent, another other reason of becoming homeless is divorce.

Rason for losing job is

layoff or the closure of the company	22.3%
losing of their own business	14.3%
homeless that have never worked	06.7%

The homeless

men	85.7%
aged under 54 years	75.8%
immigrants	59.4%
low level of education (only 1 of the 3 have a dimploma)	66.0%

average time of being homeless

Italians	8.2 years
immigrants	3.9 years

Where do they live

the majority of homeless: live in the North-West of Italy	38.0%
--	-------

Milan	23.7%
Rome (1st Municipality, then 6th 7th)	15.2%
Palermo	05.7%

Prison

homeless that have been in prison	24.0%
Italian	35.0%
immigrants	18.0%

Numbers according IStats, the Ministry of Welfare, the fio.PSD, the Caritas and Rodolfo De Benedetti Foundation along with the Bocconi University. 2014, 2015, 2016

WHERE to live

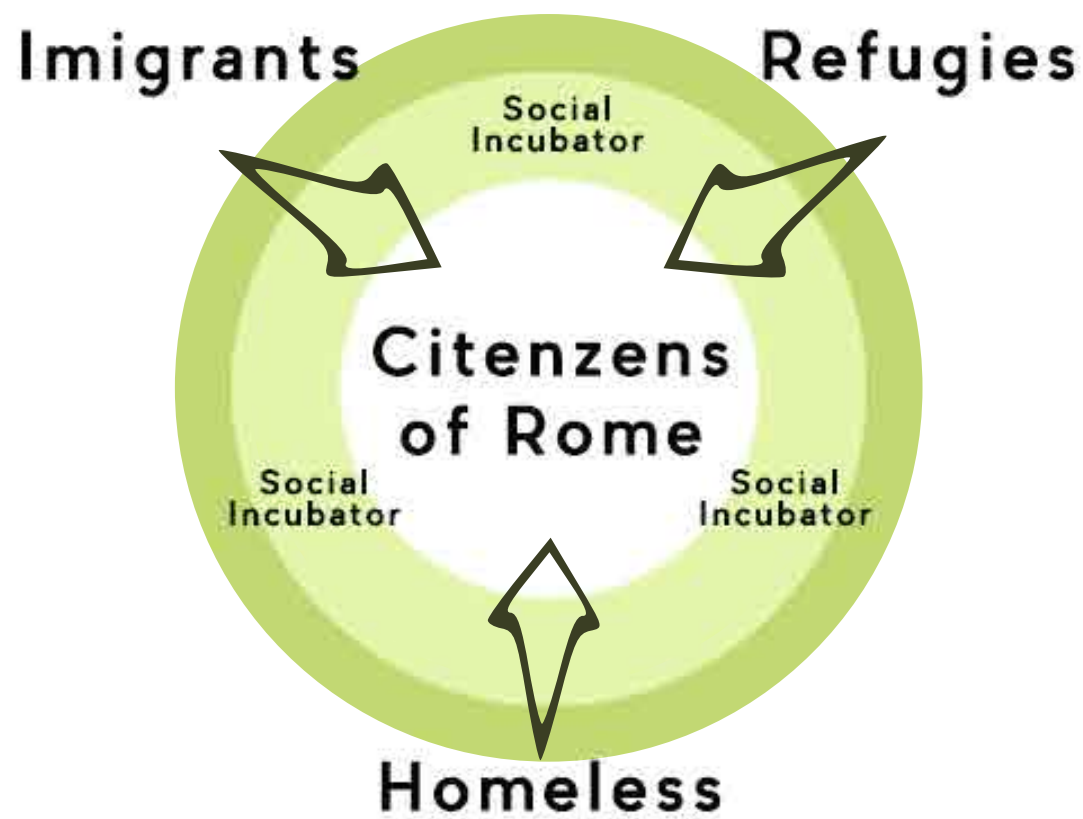


According to an estimate by ISTAT, the Ministry of Labour and Social Policy, FIOPSD and Italian Caritas carried out in 2014, homeless people in Italy are 50,724, of which 11,998 in central Italy, in Rome are 7,709, a decline of 1.2 % compared to the 2011 census when they were 7,827.

ROLE of the building



PROPOSAL
architecture is used as an tool to create a social framework that is part of machinery that helps the homeless of Rome in order to rehabilitation them into being active member of the community.



ROLE
social incubator

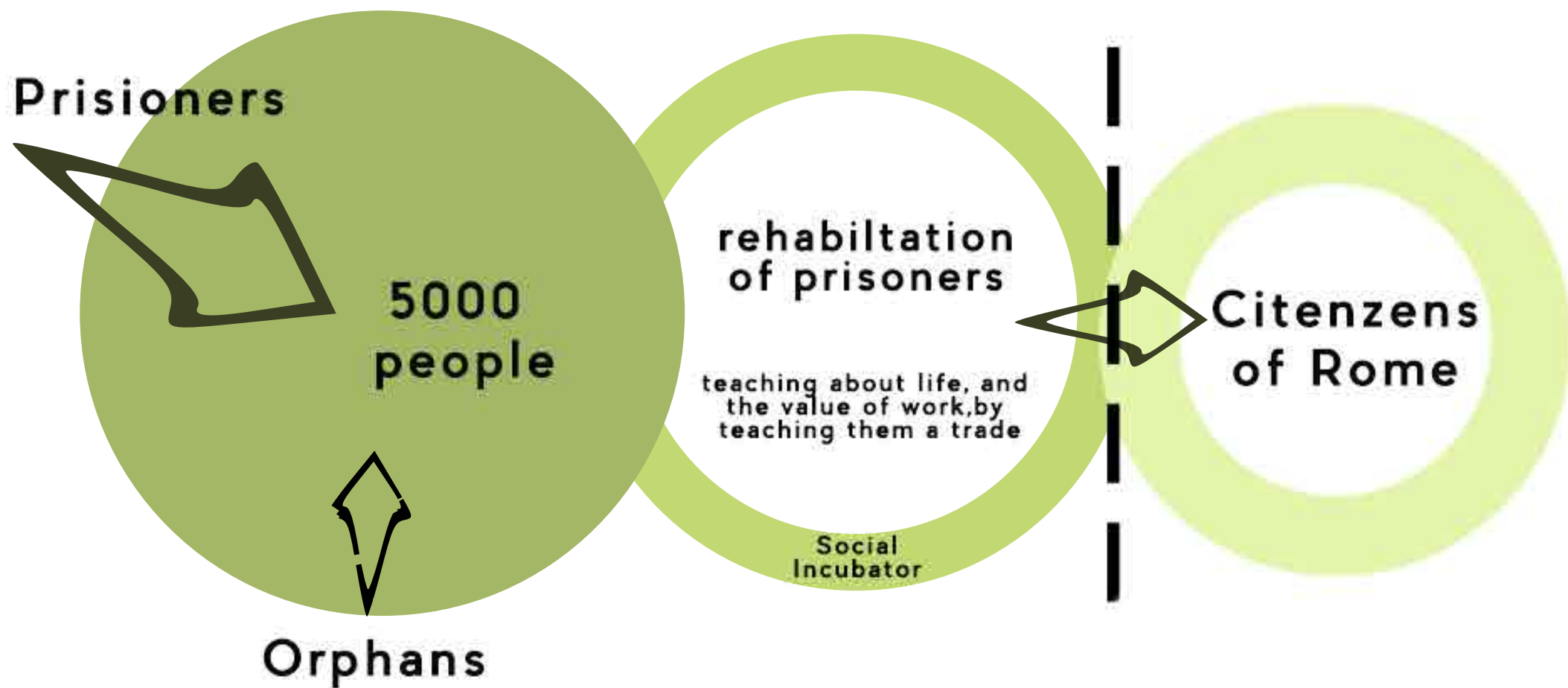


SOCIAL INCUBATOR





Alberghi dei Poveri



A facility to house the destitute and ill, as well as to provide a self sufficient community where the poor would live, learn trades, and work

Ensure the community safety needs, linked to the development of the first industrialization

REHABILITATION program



classes

re-entering
the society, finding
a job, make
resumes

upkeep and repair

maintenance of
the location and
the buildings

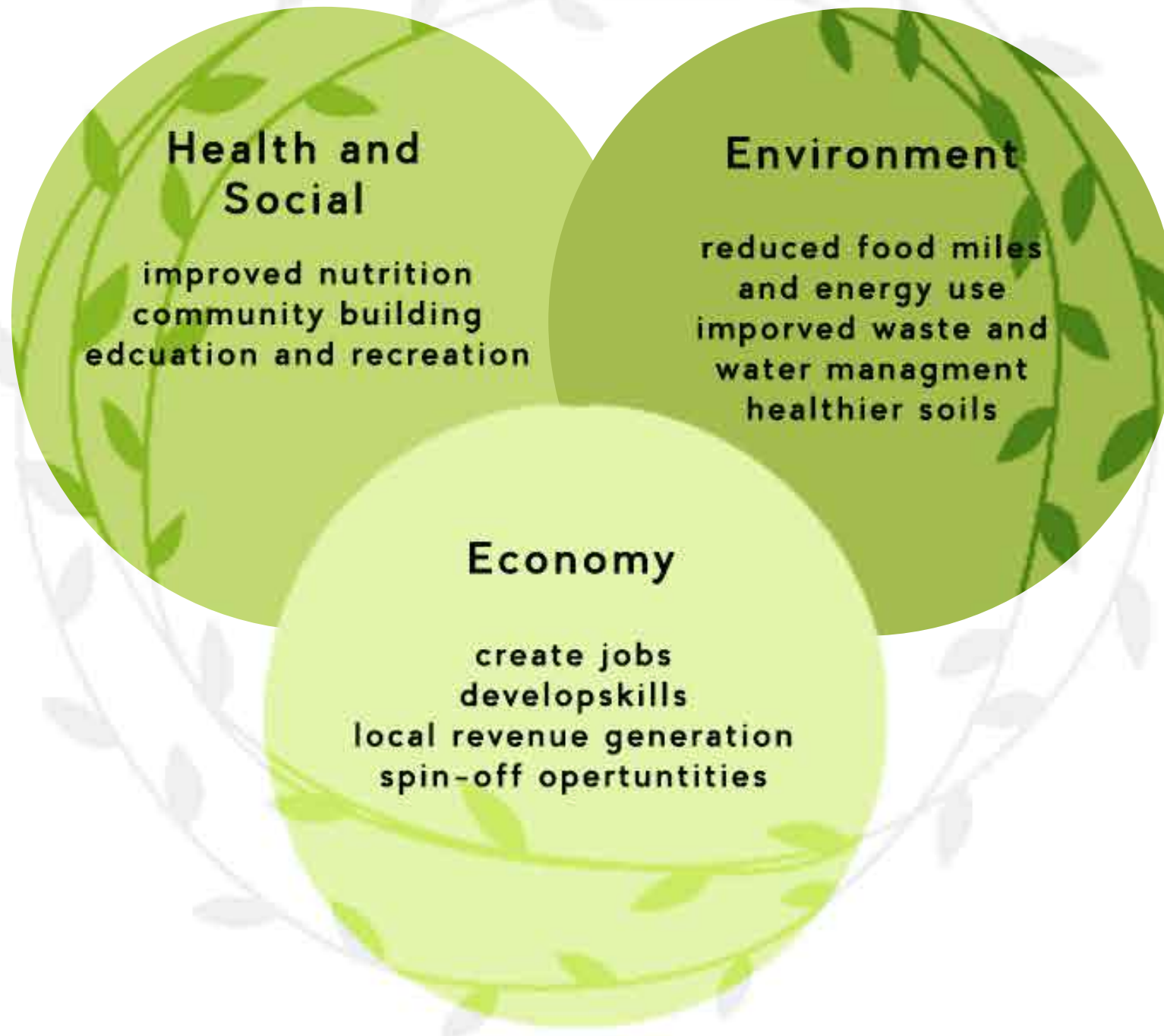
workshops

a trade, in my case
urban farming, learn
how to grow
cheap food
and cook

work

work at the farm, the
market, the restaurant
and at the compost
regulation

DEFINING Urban Agriculture





THEMATIZING THE CITY URBAN FARMING



METHODS of Urban Agriculture



Indoor farming

hydroponic farming
aeroculture
aquaponics
fungiculture
vertical farming



easy control of the environment, which makes year-round crop production possible, the minimal risks of pest, no weather variances, and minimizing of land contamination.

The ability to grow without chemicals and 70/95% reduction in water use

Outdoor farming

intensive in ground
raised bed growing

greenhouses
hoop houses
rooftop farms
apiculture
aquaponics

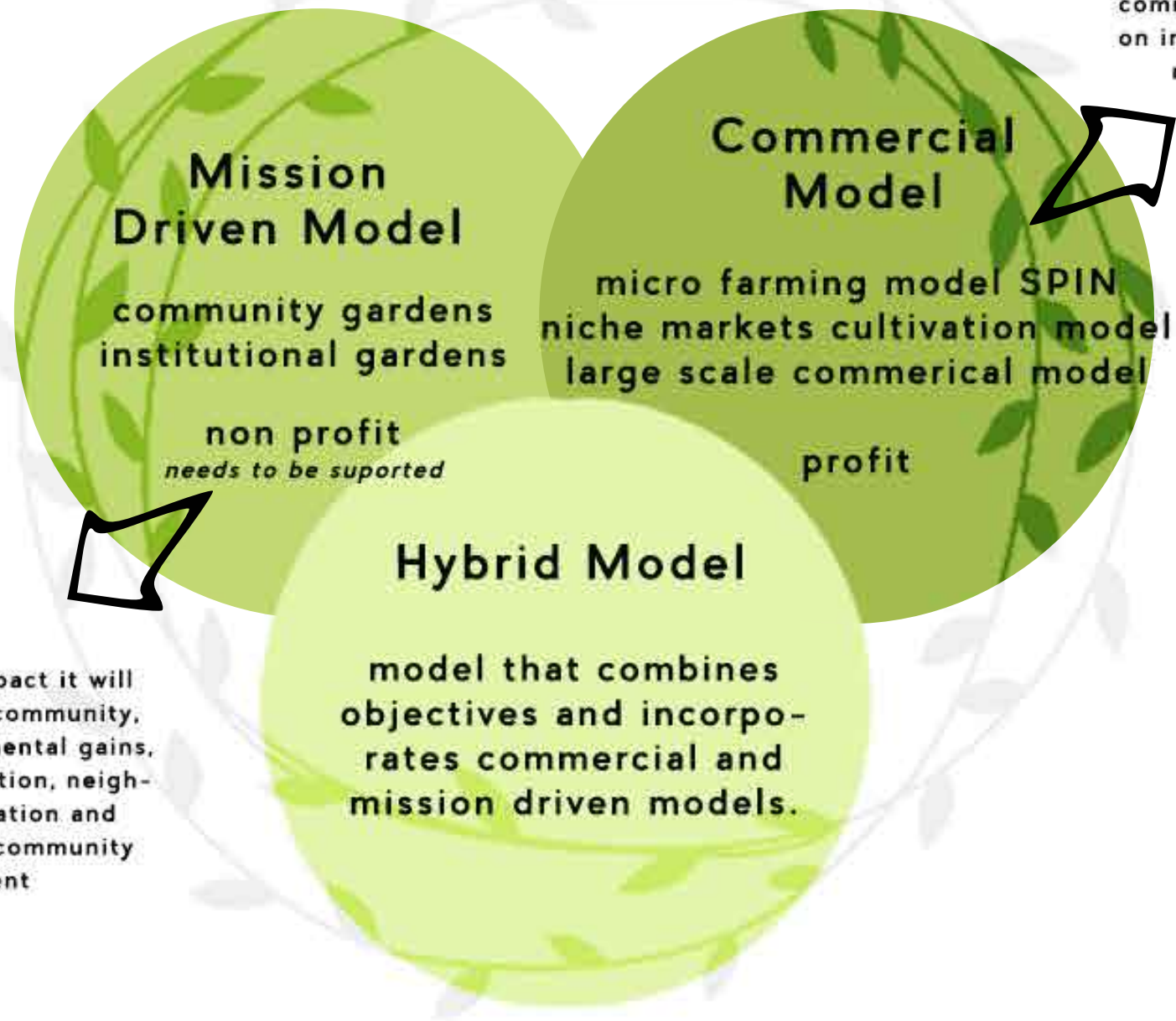


traditional farming methods

better access to sunlight and ventilation

exposure to variability in weather and more risk for pest, the soil quality can vary greatly.

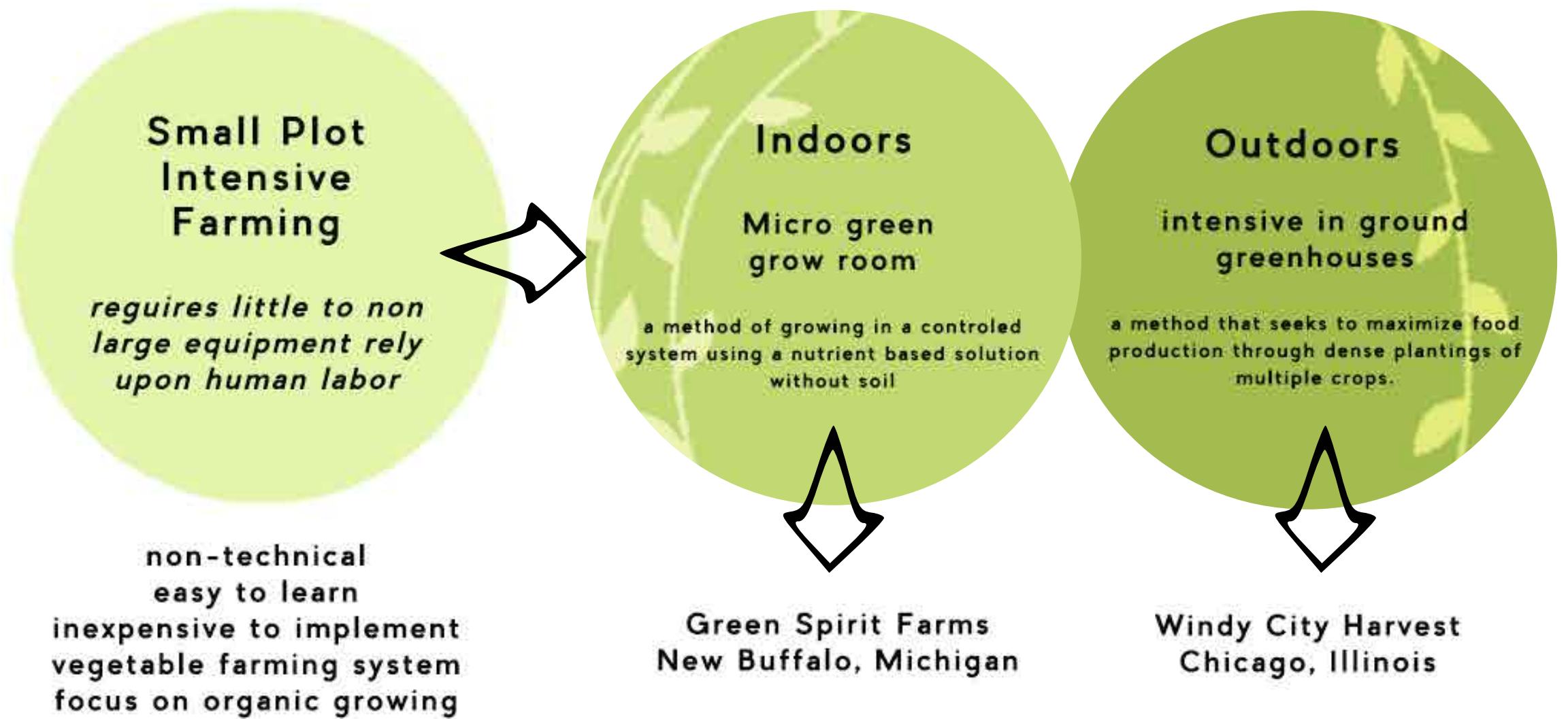
ENTERPRISE Model



large scale production with intent to sell to wholesale and to distributors in markets. commercial farming focuses on intensive production and revenue generation.

defined by the impact it will have on the local community, social and environmental gains, estimated by education, neighborhood stabilization and healthy food and community development

SPIN Farming



Delta institute

**WHAT IS THE NATURE OF
THE INTERVENTION**

***AN URBAN SCALE
AND ARCHITECTURAL LEVEL***

LOCATION



Gianicolense

Testaccio

Italgas and
Gasometro

Mira lanza
Complex

Portuense

Garbatella

Ostiense

San Paolo

TEXTURE MAP

TEXTURE GROWING		TEXTURE DEVELOPMENT	
TEXTURE COMM. GARDENS		TEXTURE SEEDS	
TEXTURE HOUSE GARDENS		TEXTURE SPROUTS	
TEXTURE ROOF GARDENS		TEXTURE MICROGREENS	
TEXTURE FOOD STRUCKS		TEXTURE DISTRIBUTION	
TEXTURE FESTIFALS		TEXTURE SUPERMARKETS	
TEXTURE RESTAURANTS		TEXTURE FARMER MARKETS	
TEXTURE CONSUMPTION		TEXTURE FOOD BANKS	



**ESTABLISH A STRONGER
CONNECTION**

+

**REPURPOSE OF FORMER
BROWNFIELD**

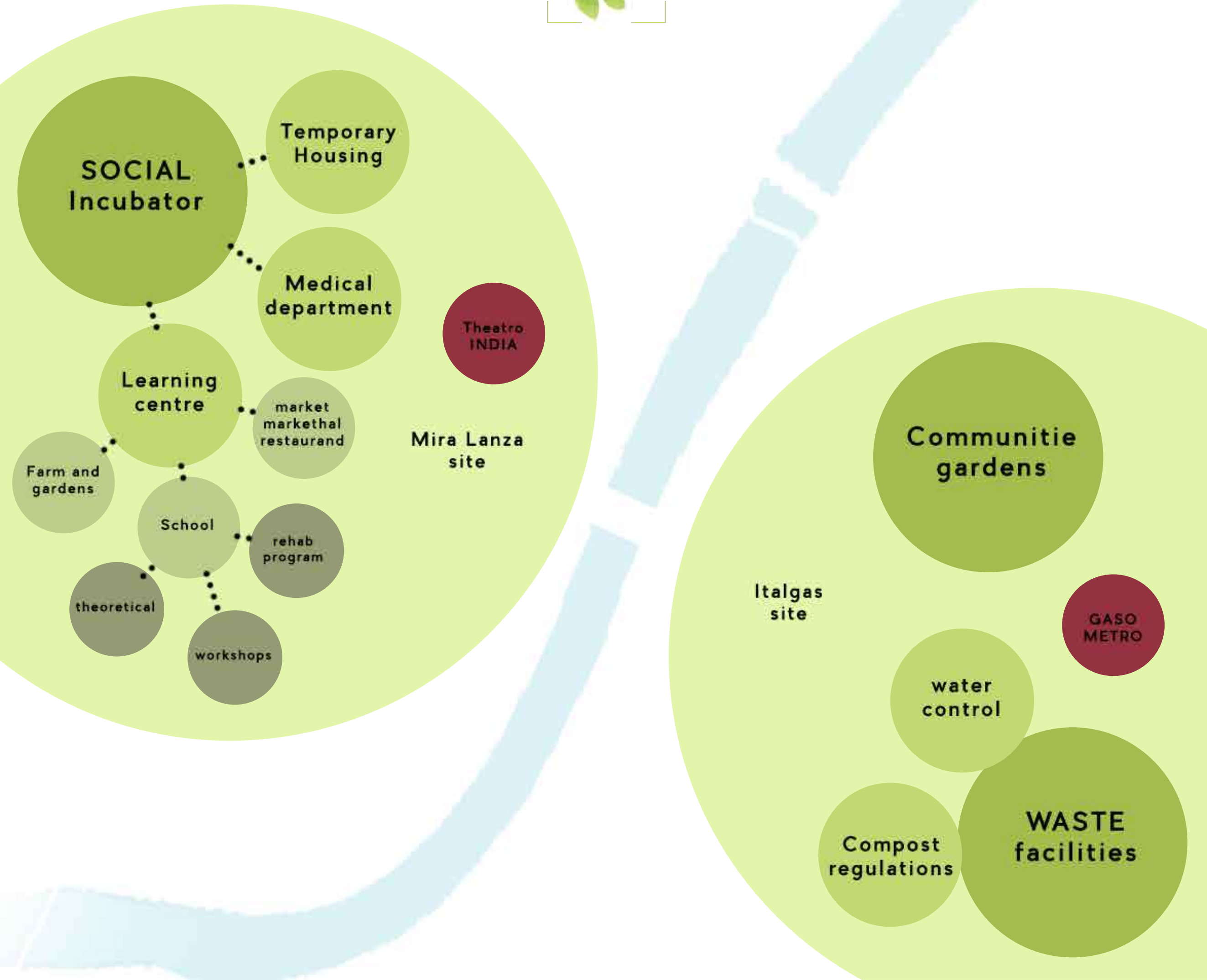
+

**ACKNOWLEDGE THE
TIBER RIVER**



MASTERPLAN

PROGRAM Masterplan



MASTERplan



Community Gardens

Community gardens

Gasometer

Waste (compost) Facilities

Urban Farm

Learning centre

Theatro India

SPIN farm

Water cleaning Facilities

Community gardens

MASTERplan



Ostiense

Portuense

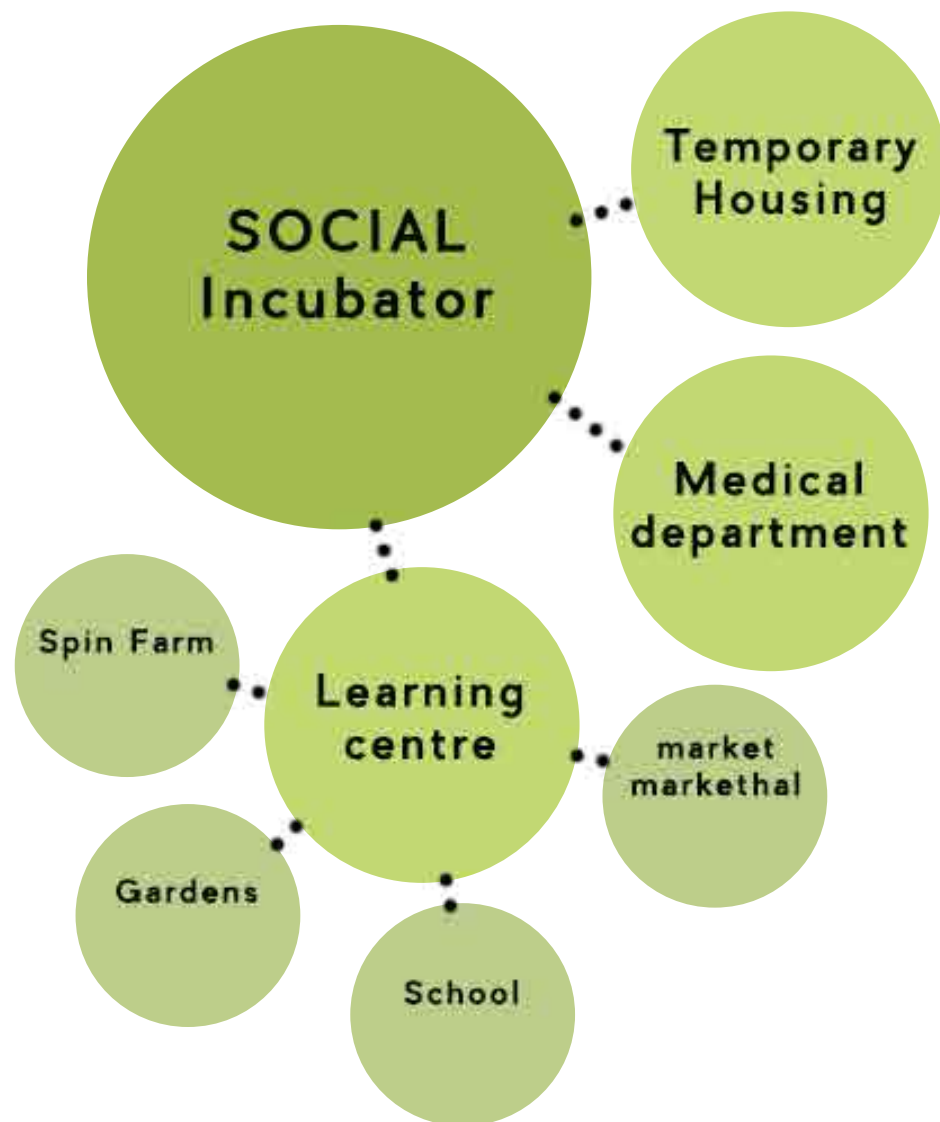


MASTERplan

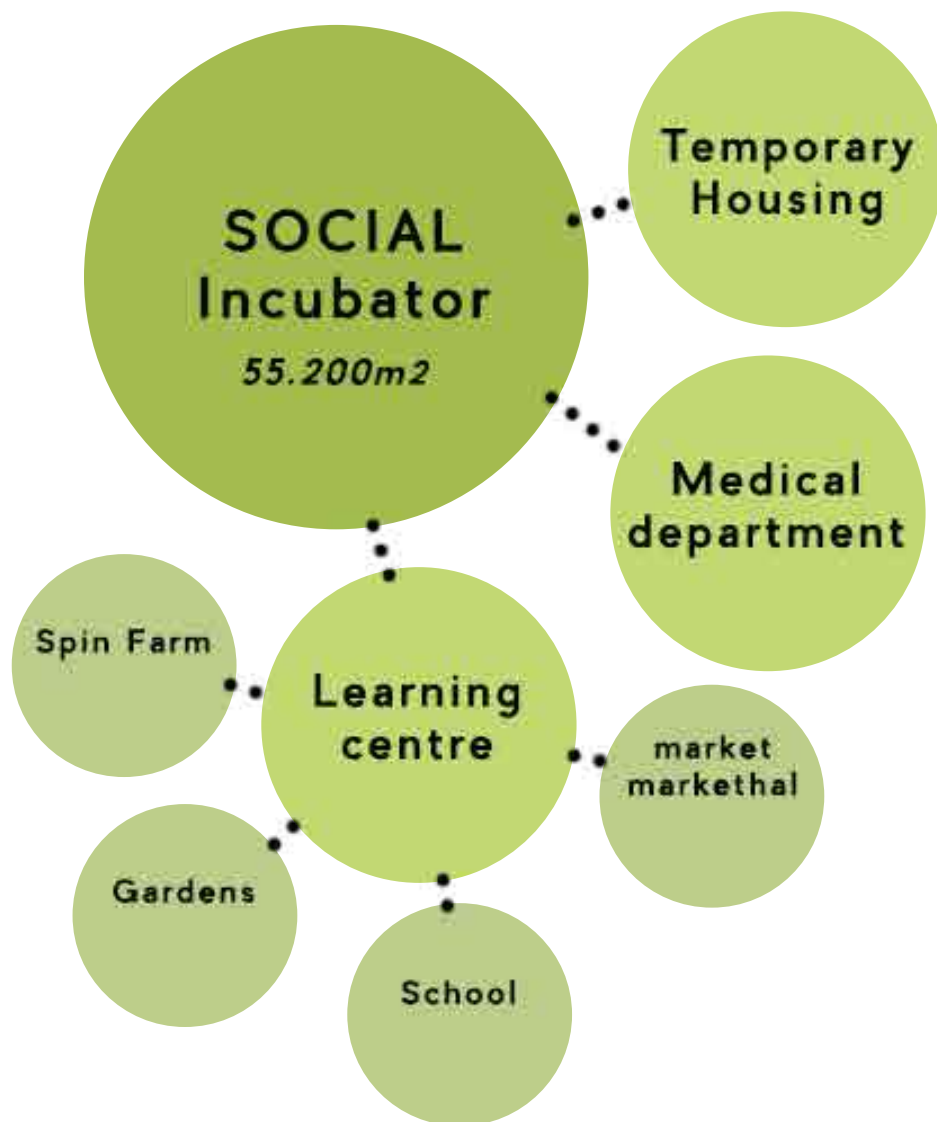




PROGRAM Mira Lanza site



PROGRAM Mira Lanza site



Whole site

55.200m²

empty lawn

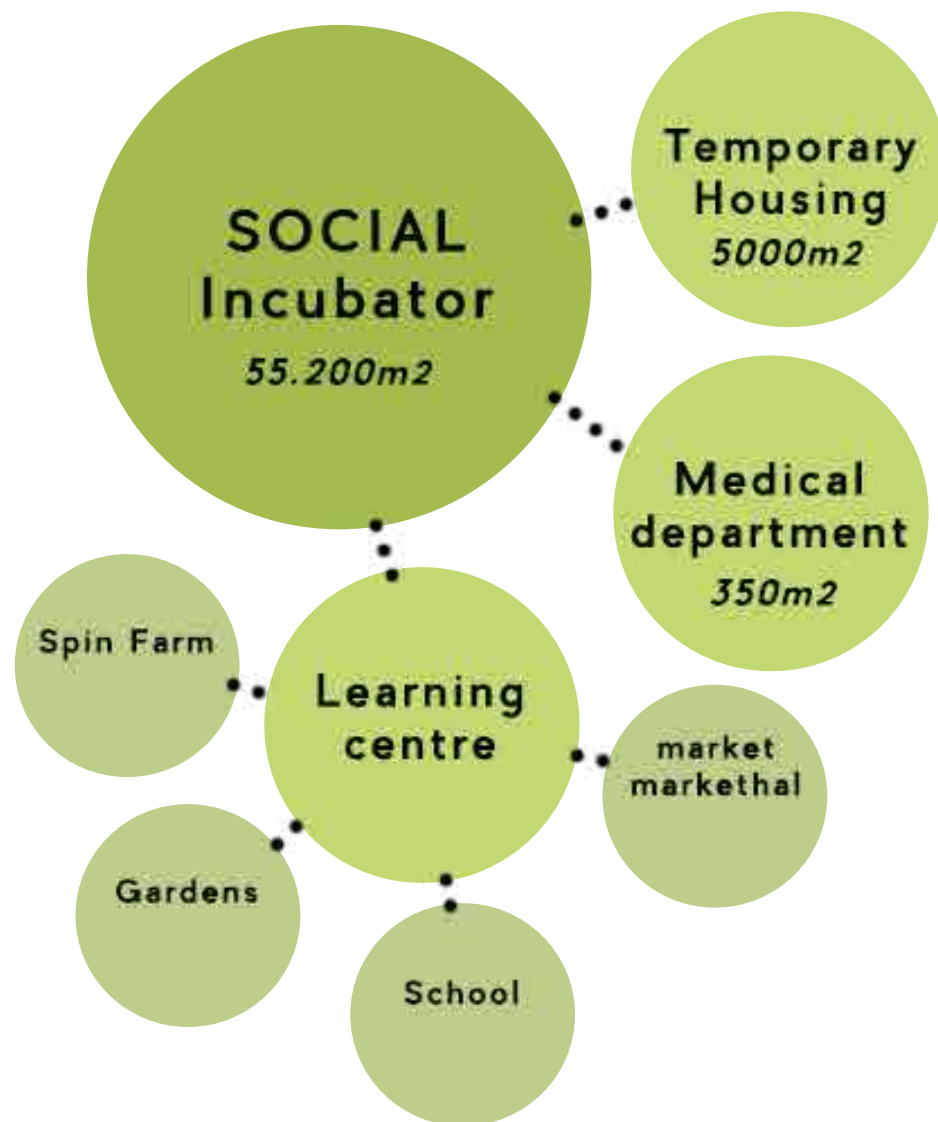
35.000m²

mira lanza factory

9300m²

theatro india 3300m²

PROGRAM Mira Lanza site

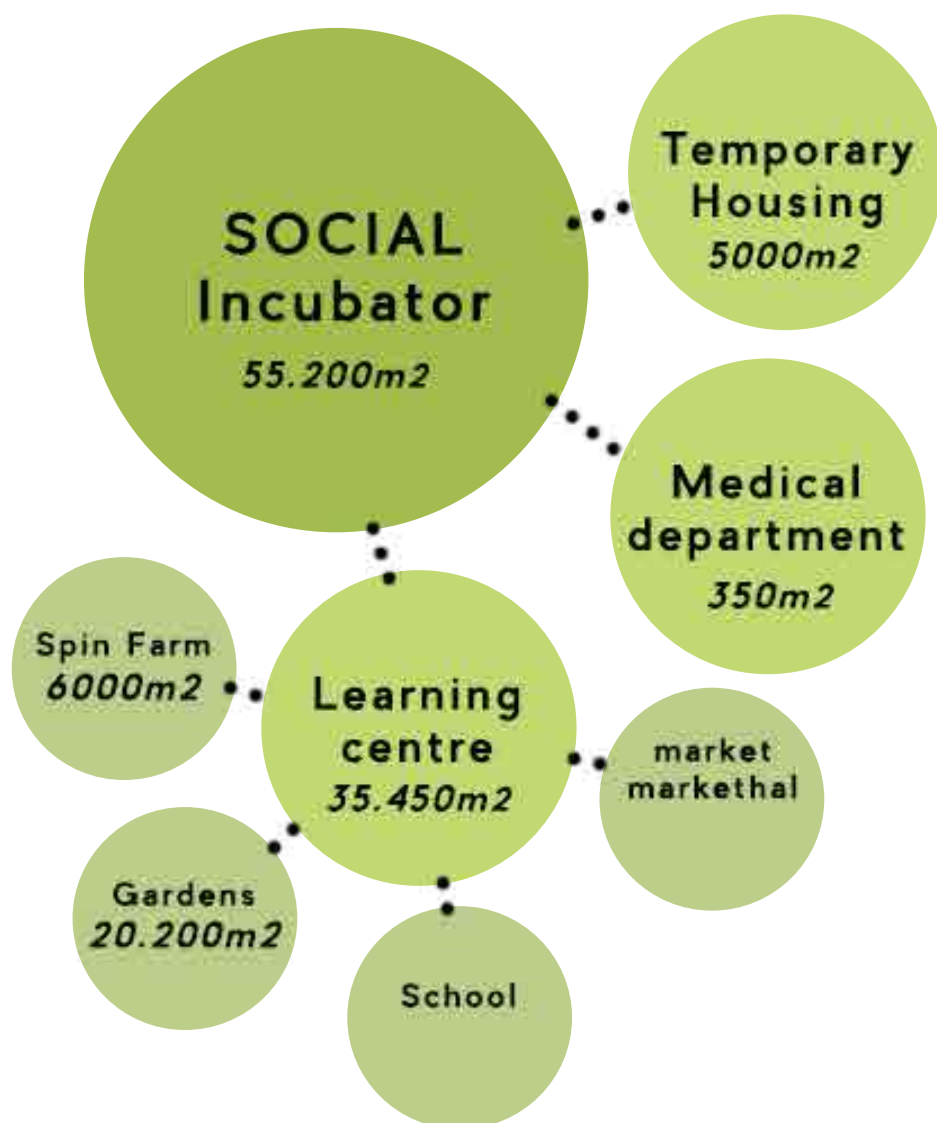


Whole site	55.200m²
empty lawn	35.000m ²
mira lanza factory	9300m ²
<i>theatro india</i>	3300m ²

Housing	5000m²
45 studios 40/45m ²	1800m ²
social worker studios	50m ²
indoor community spaces	750m ²
<i>laundryrooms, living rooms,</i>	
outdoor community spaces	650m ²
<i>covered outdoor area, hallways/entrances</i>	
courtyard	1750m ²

Medical	350m²
ofices, meetingrooms,	
examination rooms	

PROGRAM Mira Lanza site



Learning centre 35.450m2

Spin farm 6000m2

workshop spaces 150m2
staff room 25m2

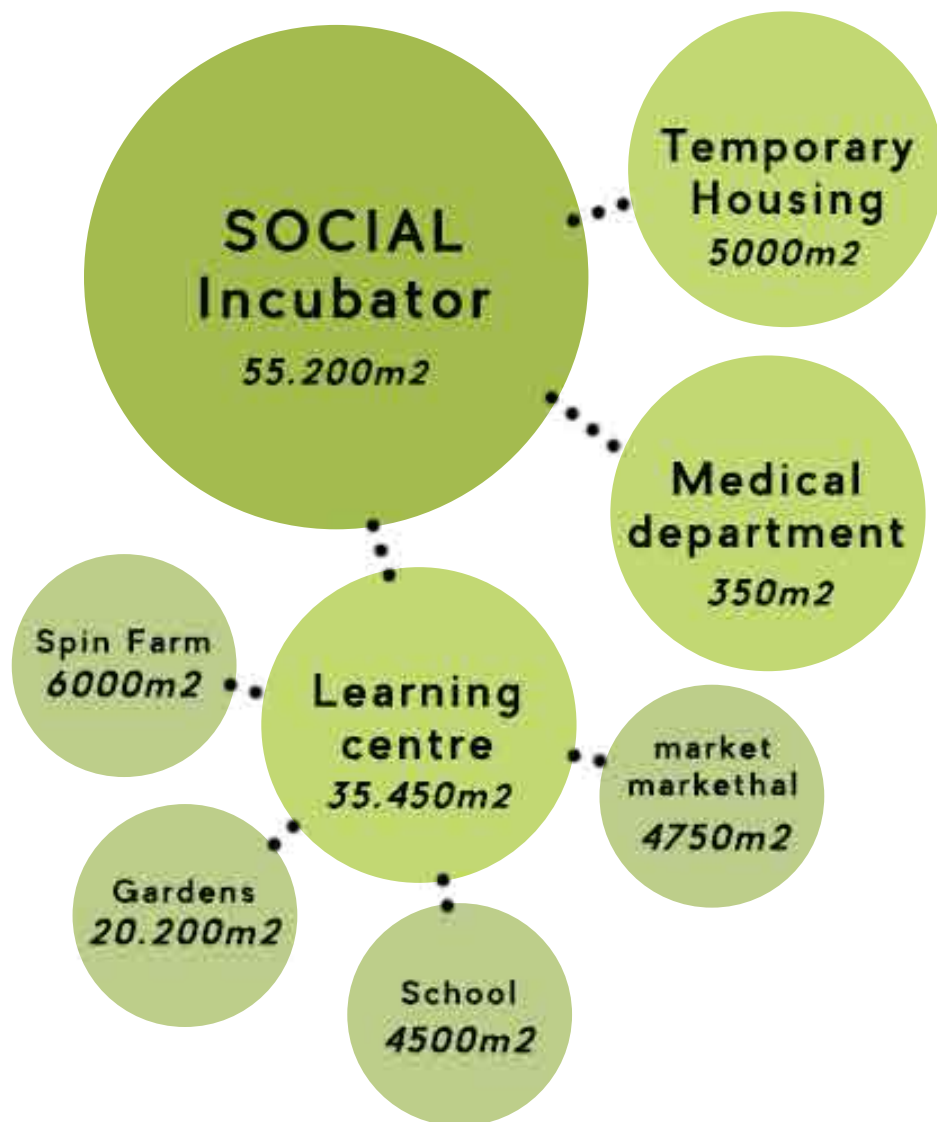
special crop production 350m2
grow room microgreen 3300m2
germination room 150m2

sanitary facilities 150m2
technics/climate controle 850m2

The gardens 20.500m2

vegetable gardens 6800m2
orchard 6250m2
vineyard 6200m2
olive garden 1450m2
water garden 2000m2

PROGRAM Mira Lanza site



School 4500m²

entrance	210m ²
<i>entrance hall, infodesk, sanitary facilities cloakroom and lockers</i>	
auditorium/lecture room	550m ²
<i>foyer, storage, technics and dressing rooms</i>	
workshop/class rooms	1850m ²
library/studie rooms	250m ²
offices	350m ²
<i>storage, meeting room, facility services</i>	
additional storage	50m ²
restaurand	500m ²
<i>storage, kitchen, workshopspace</i>	
technics/climate controle	750m ²

Market hall	500 m ²
preparation area	100m ²
storage and technics	100m ²

Market	4250m ²
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USERS of the site



Homeless
45 in the
rehab program

**Urban Farming
workshops**
100 students

Teachers
Social workes
Medical staff
Janitor ect.

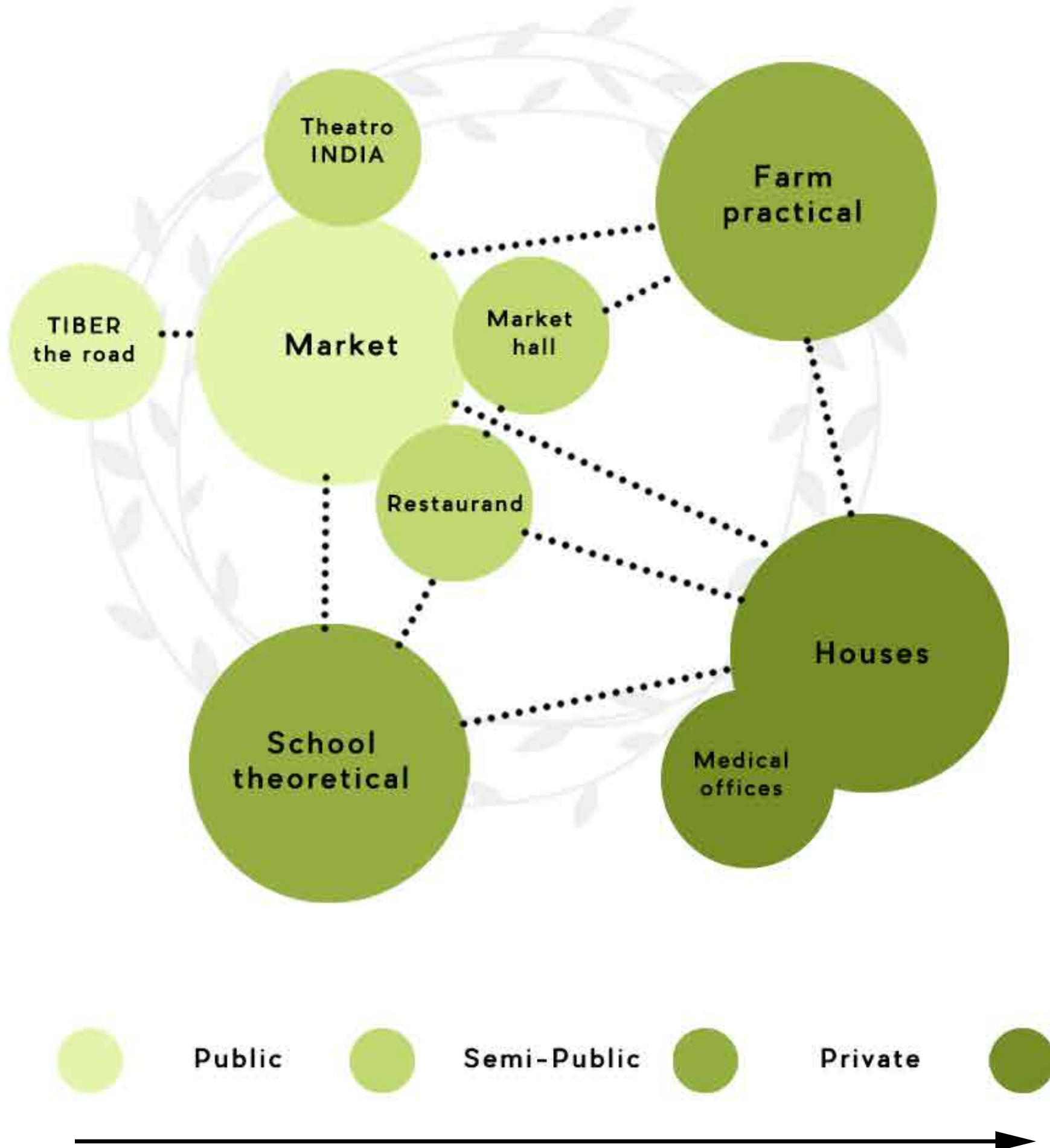
Public visitors
garden, library, public
lectures, theatre shows,
market, restaurand

**Waste controle
facilitie**

Theatro INDIA
artist, technicians,
employees

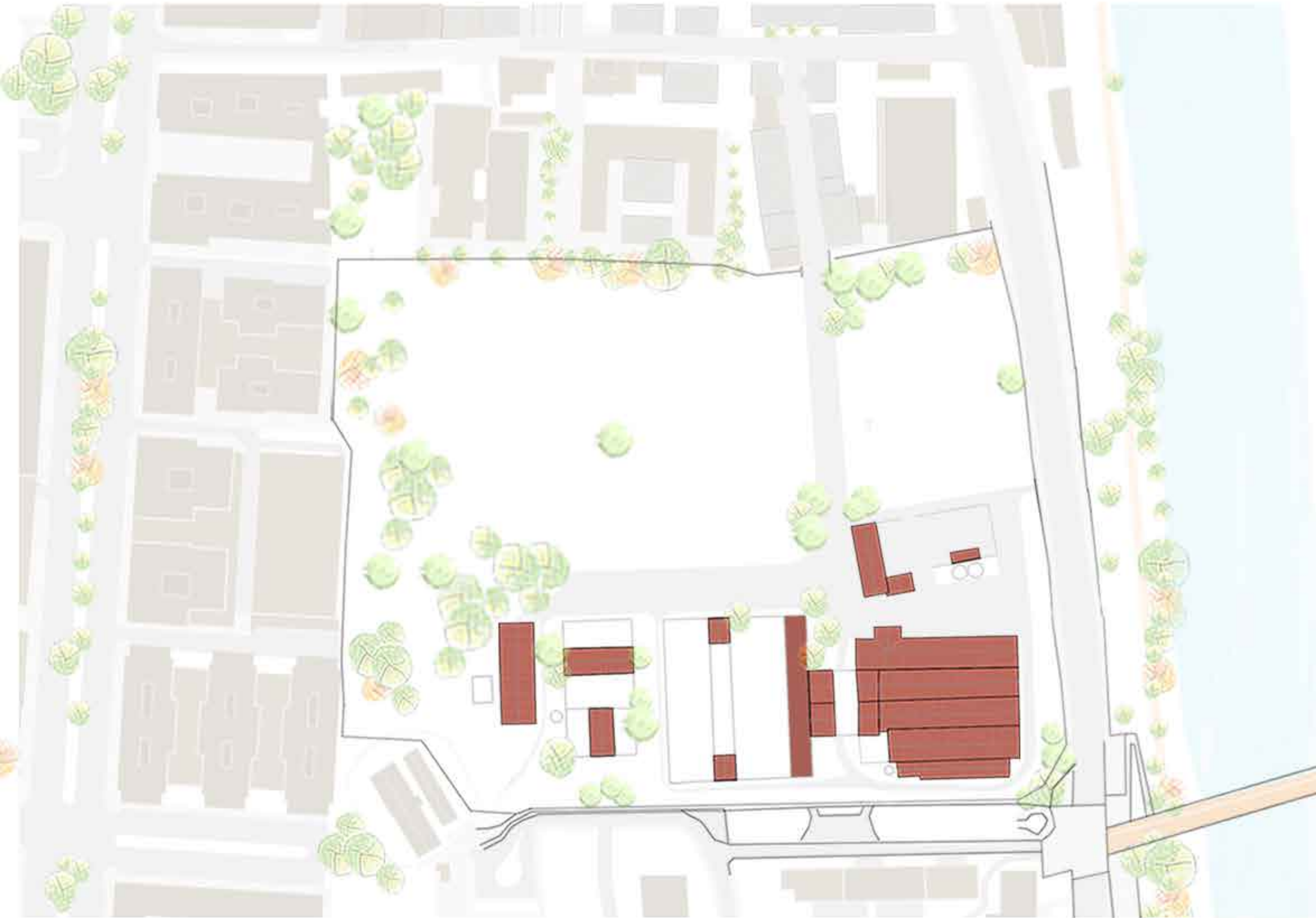
**Communitie
gardens**

RELATION Diagram

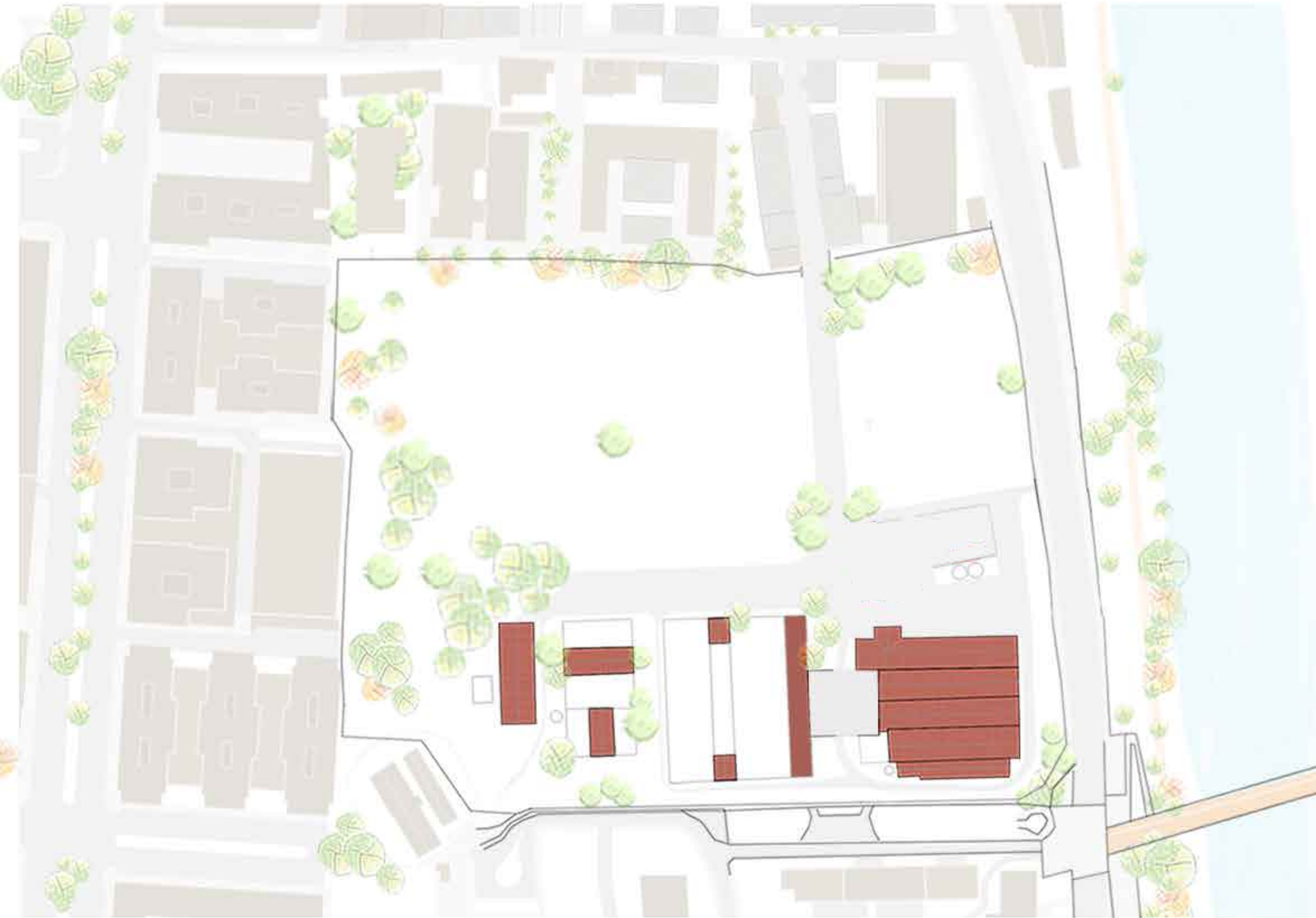


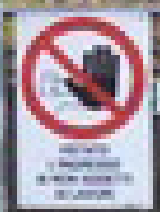
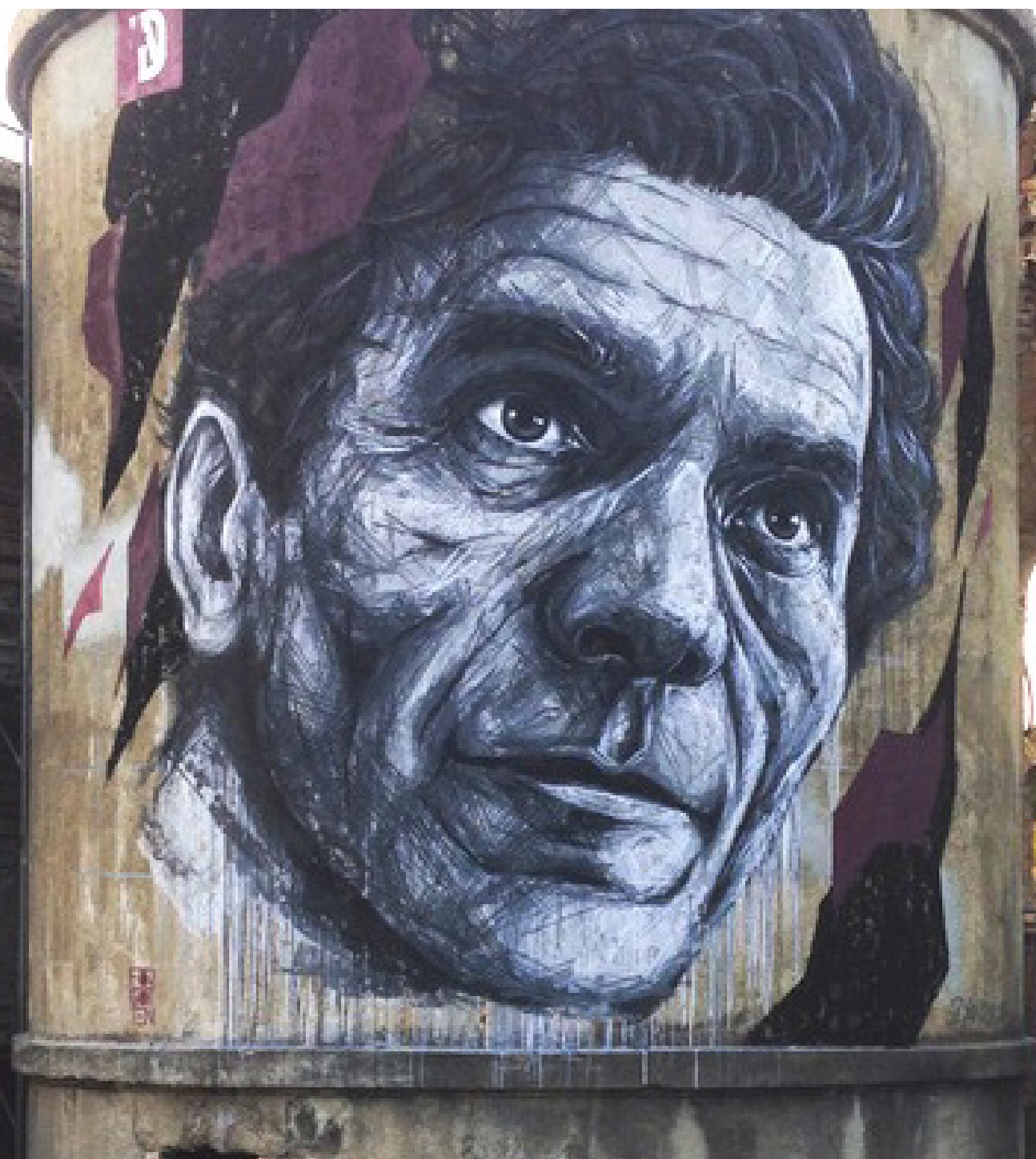


SITEplan

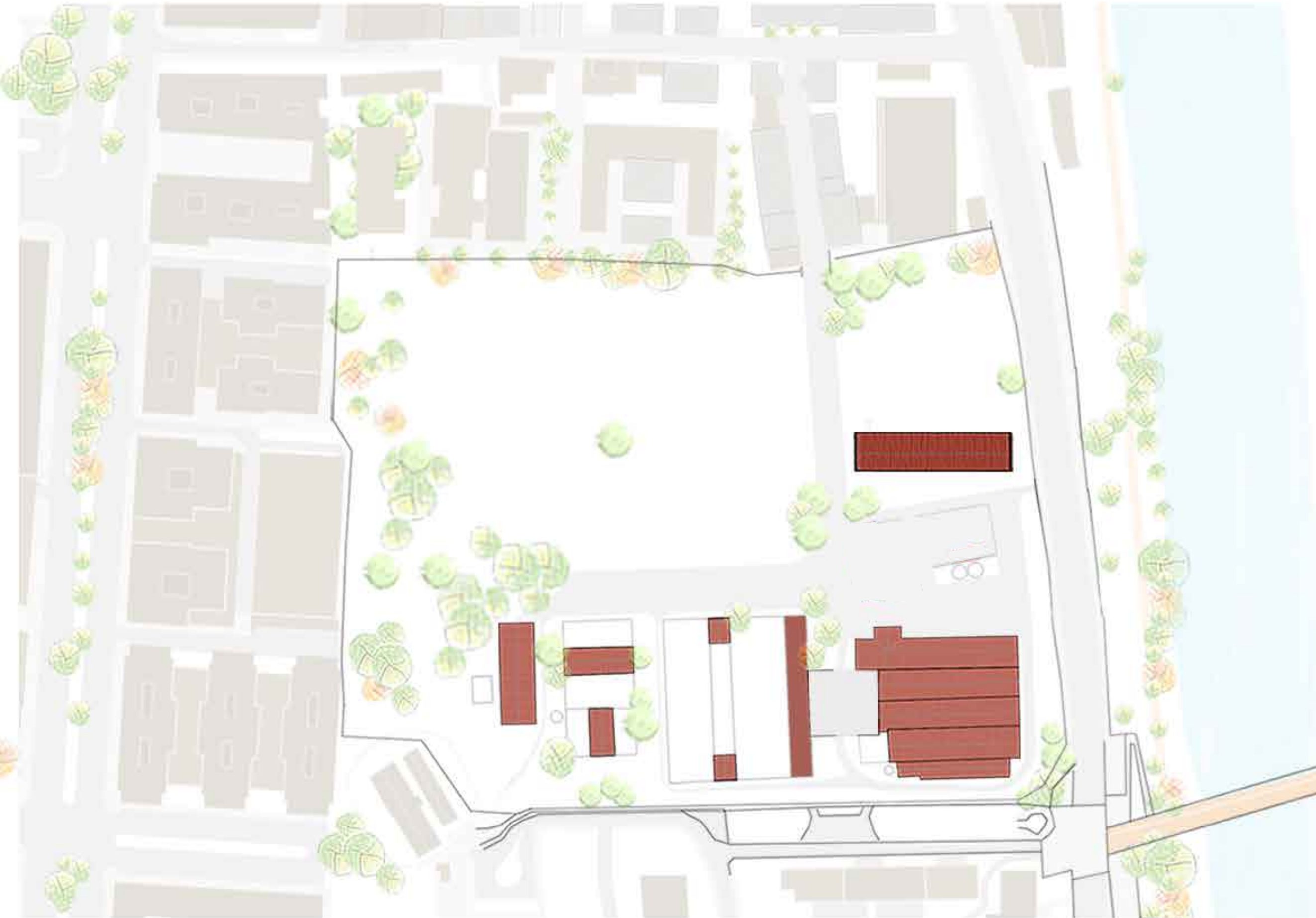


SITEplan

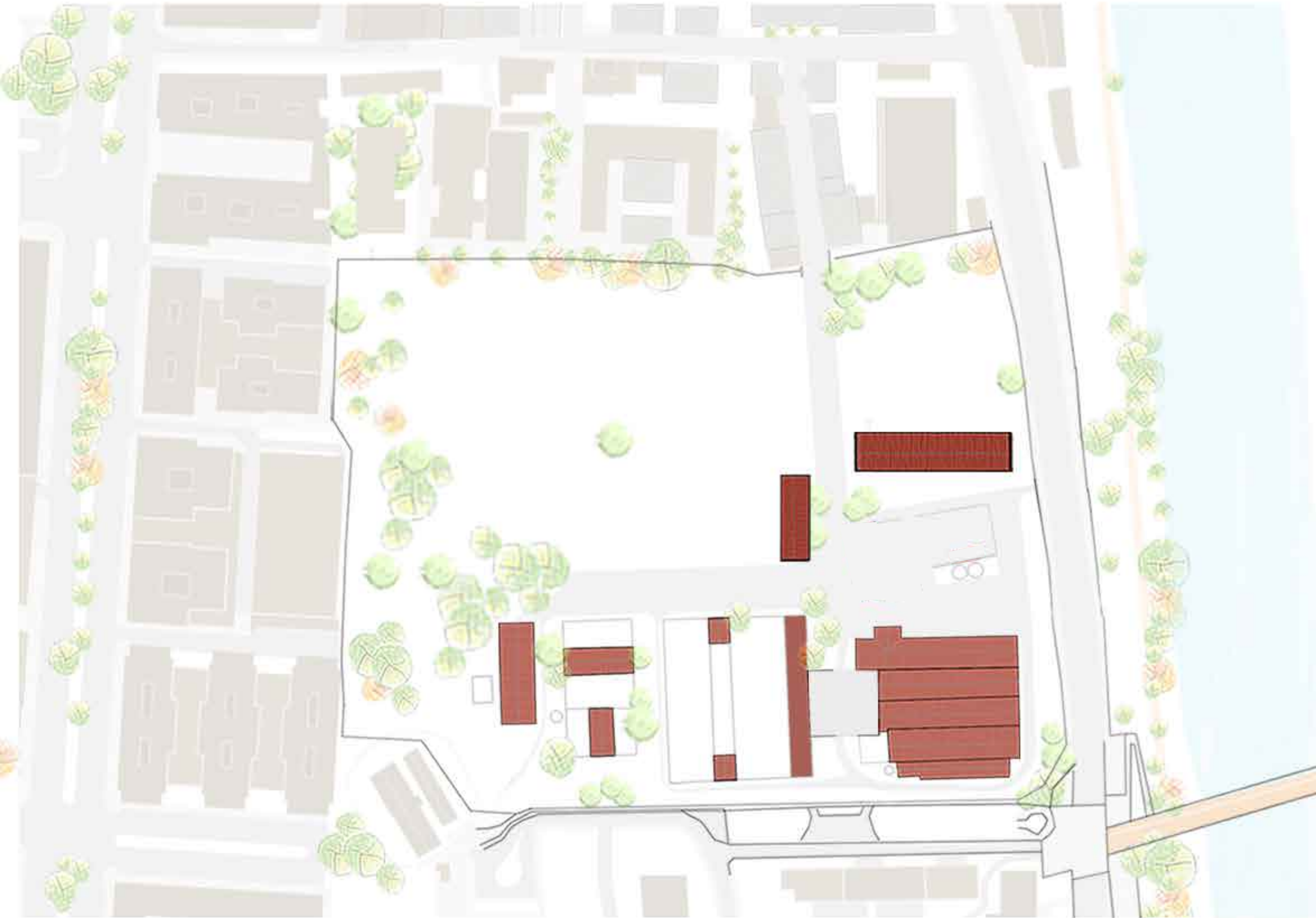




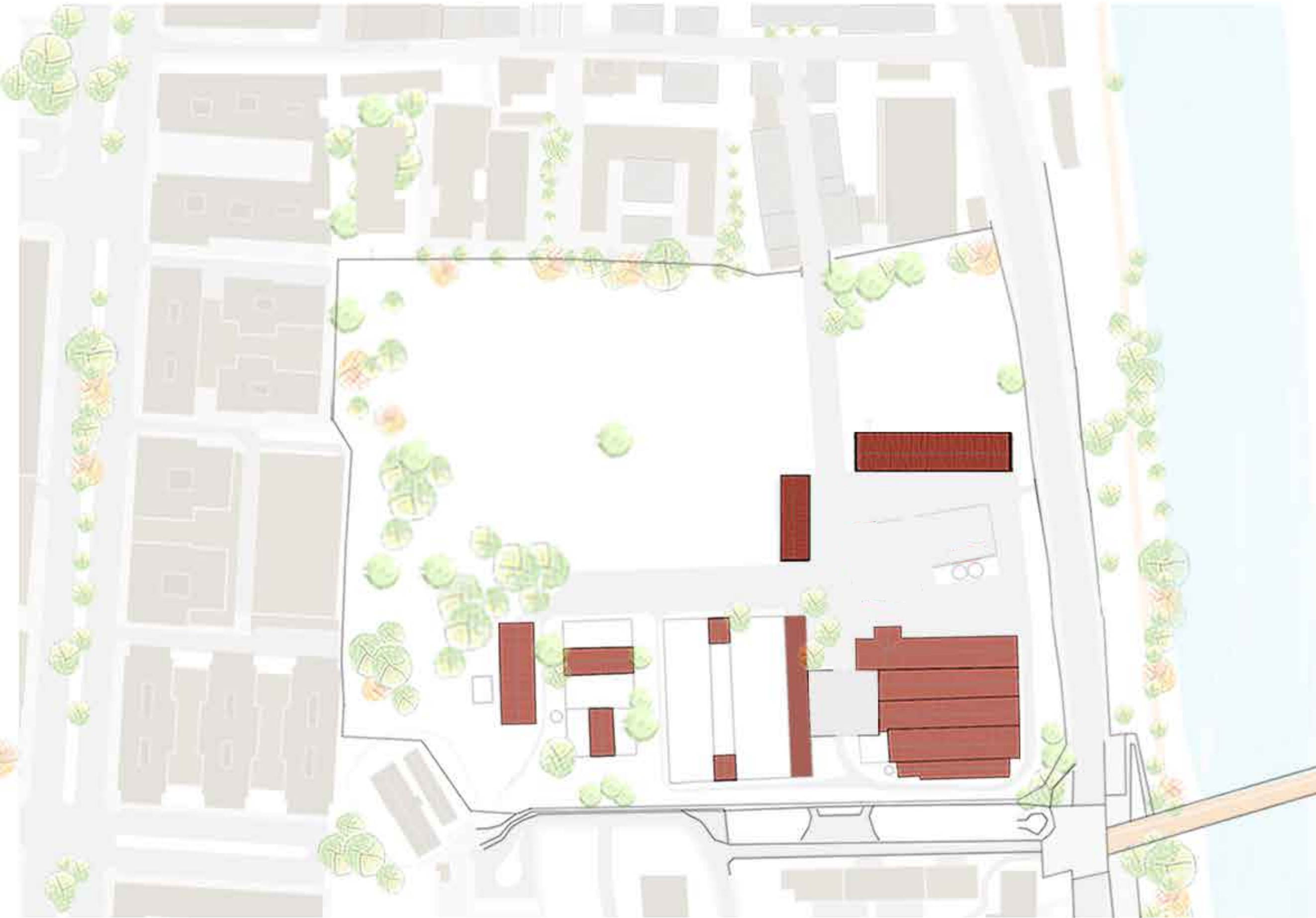
SITEplan



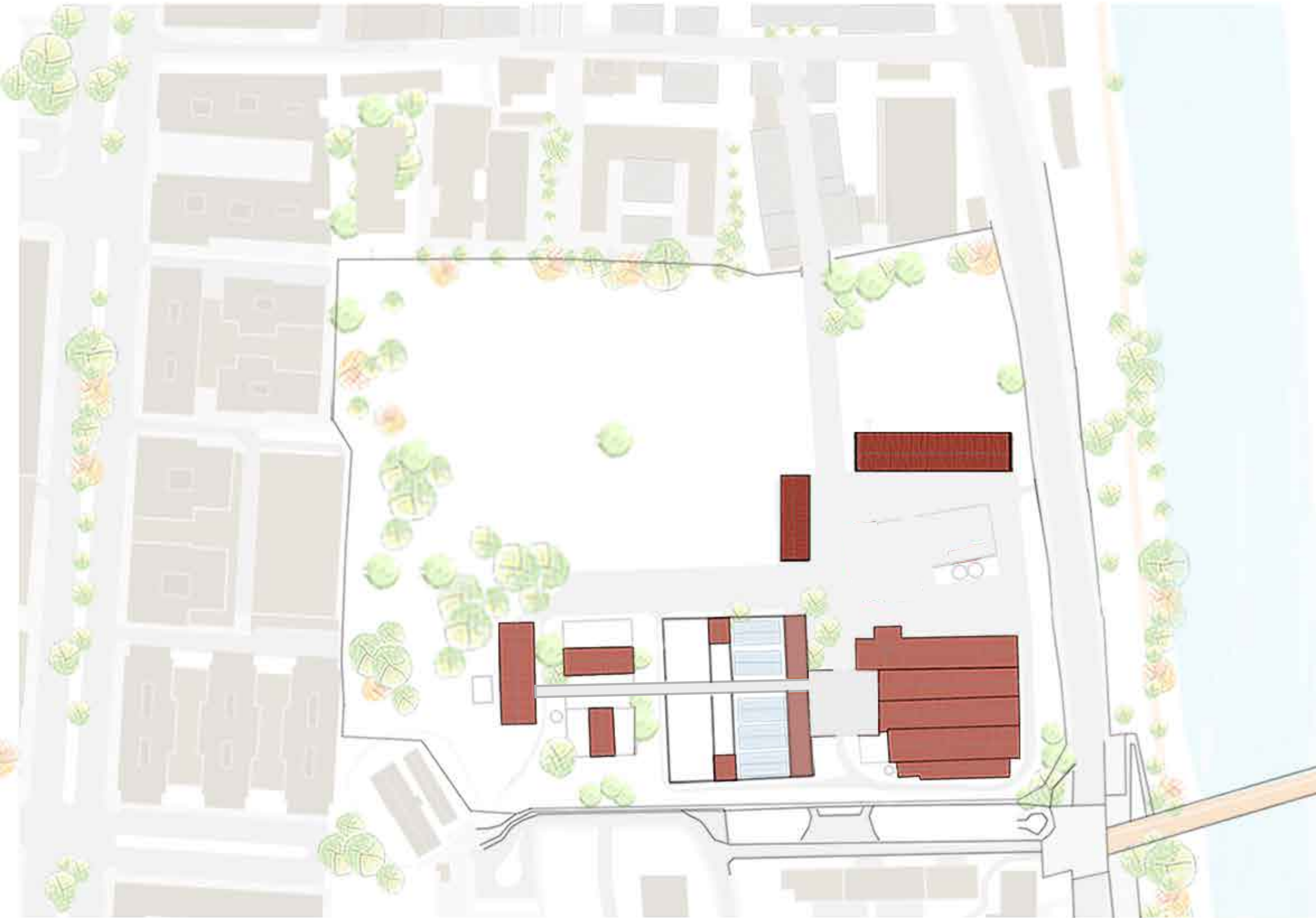
SITEplan



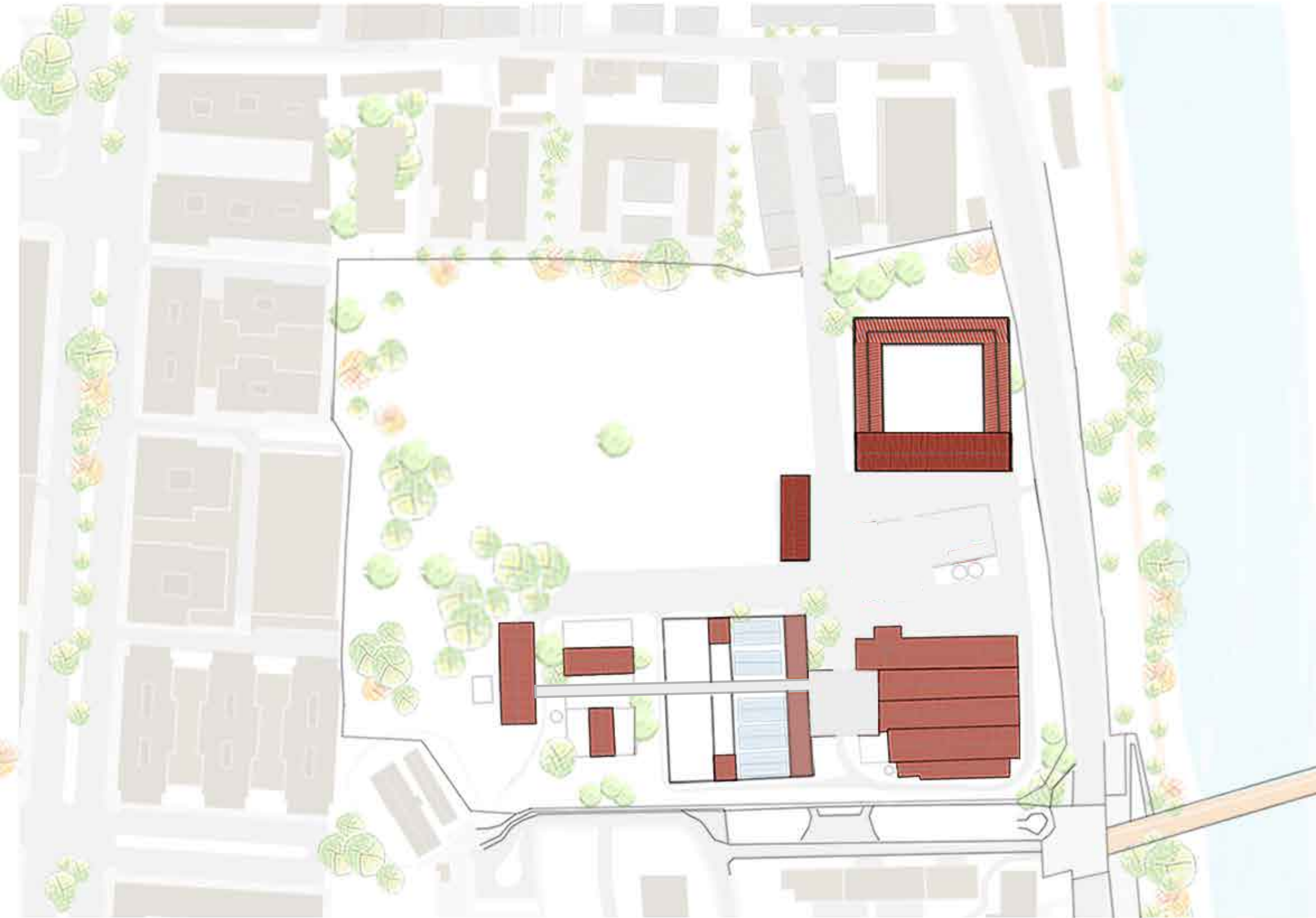
SITEplan



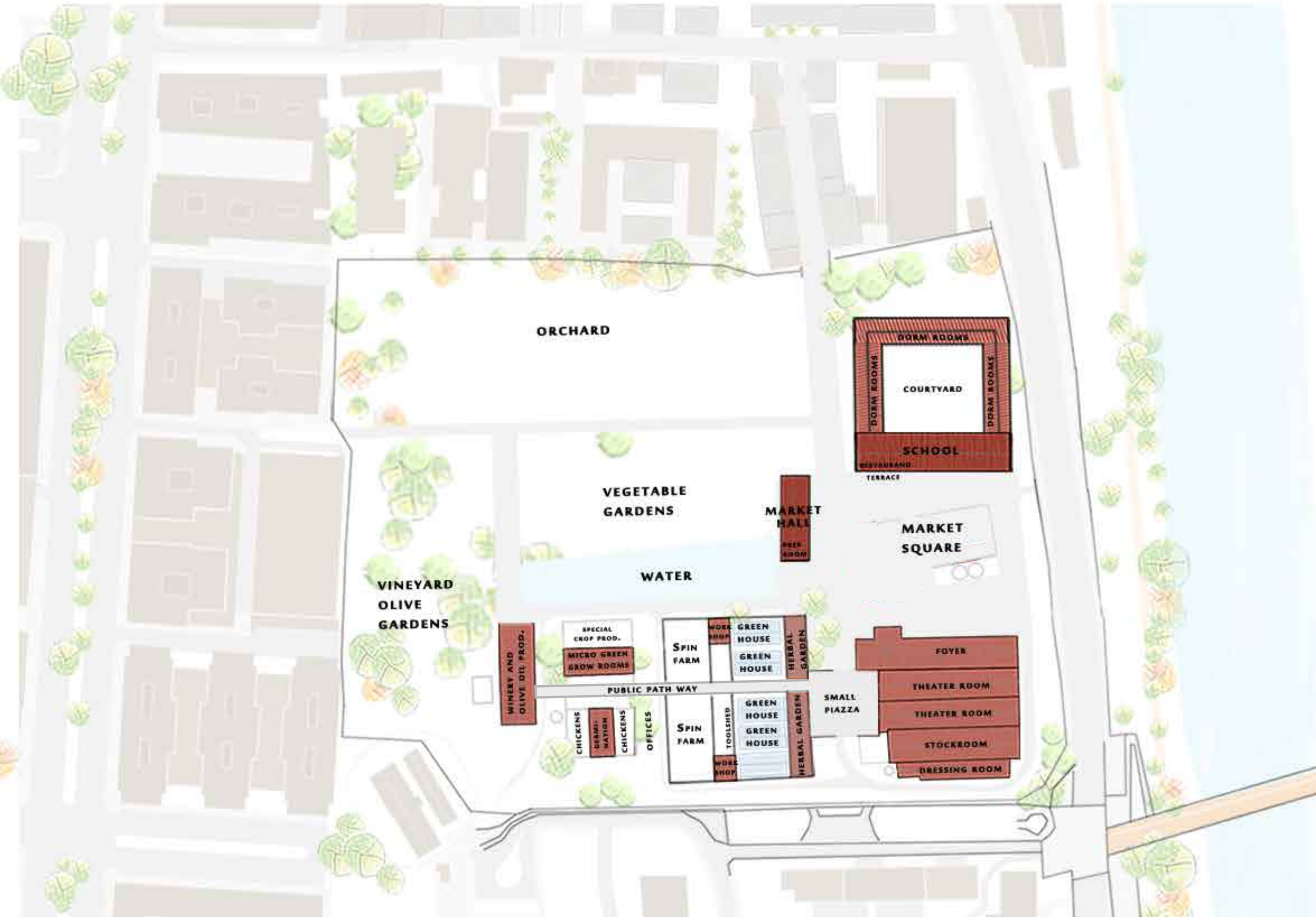
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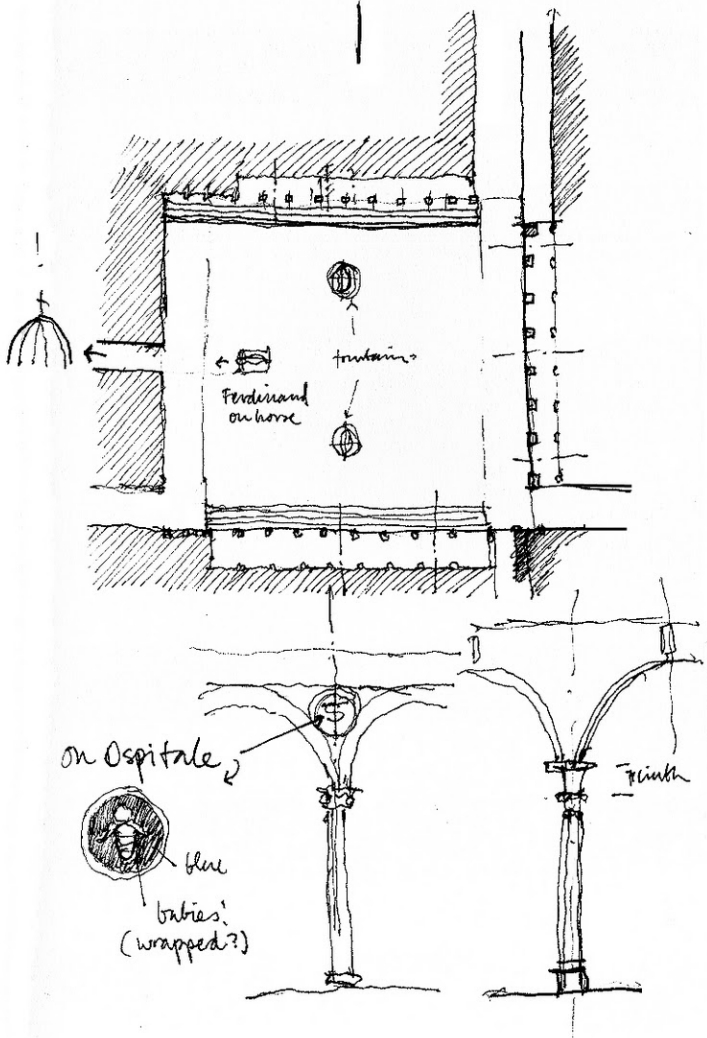
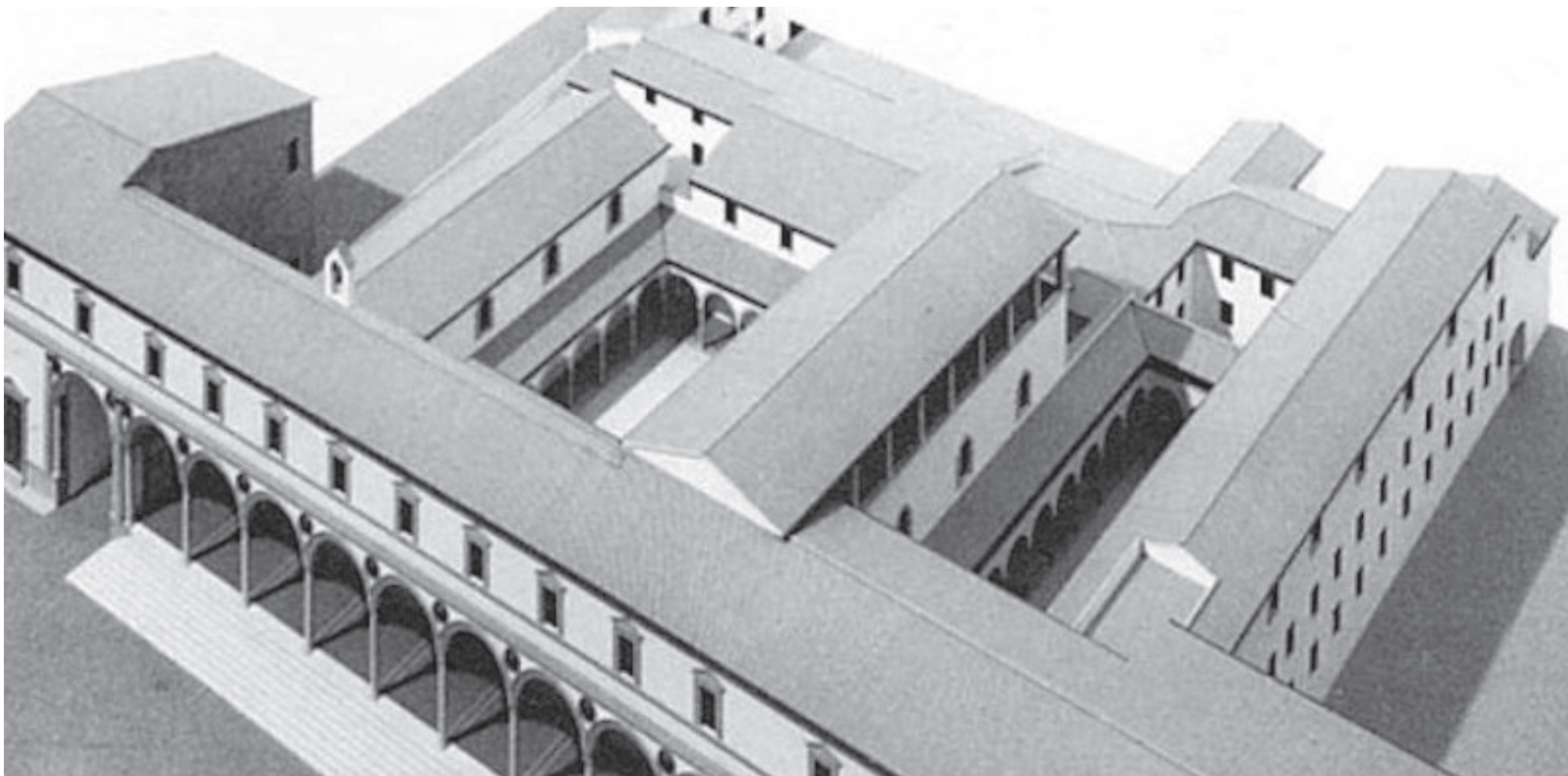
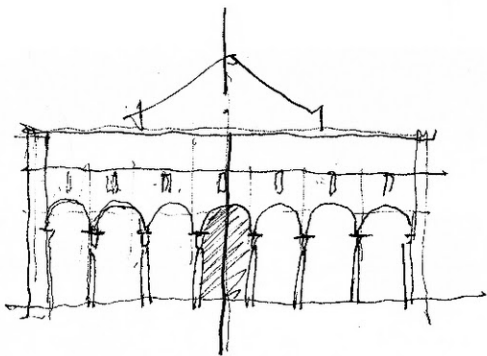


SITEplan



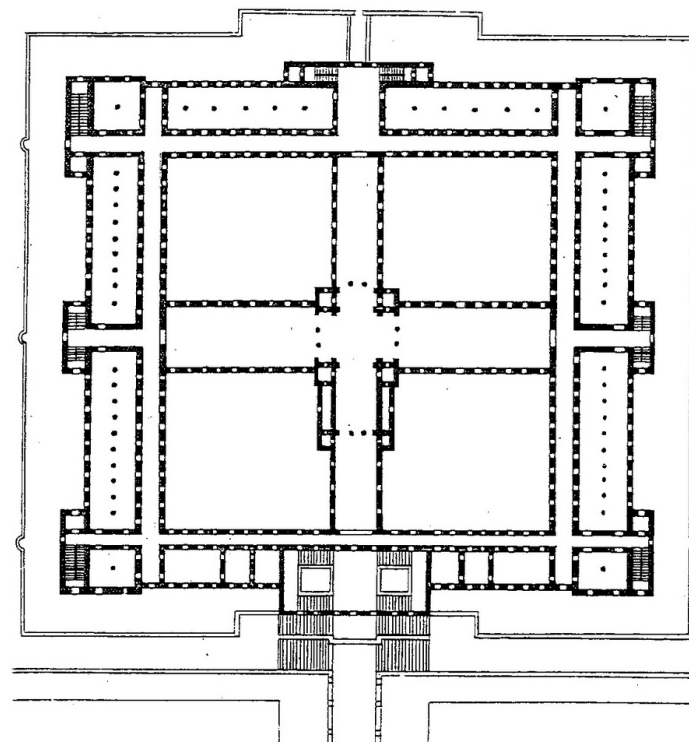
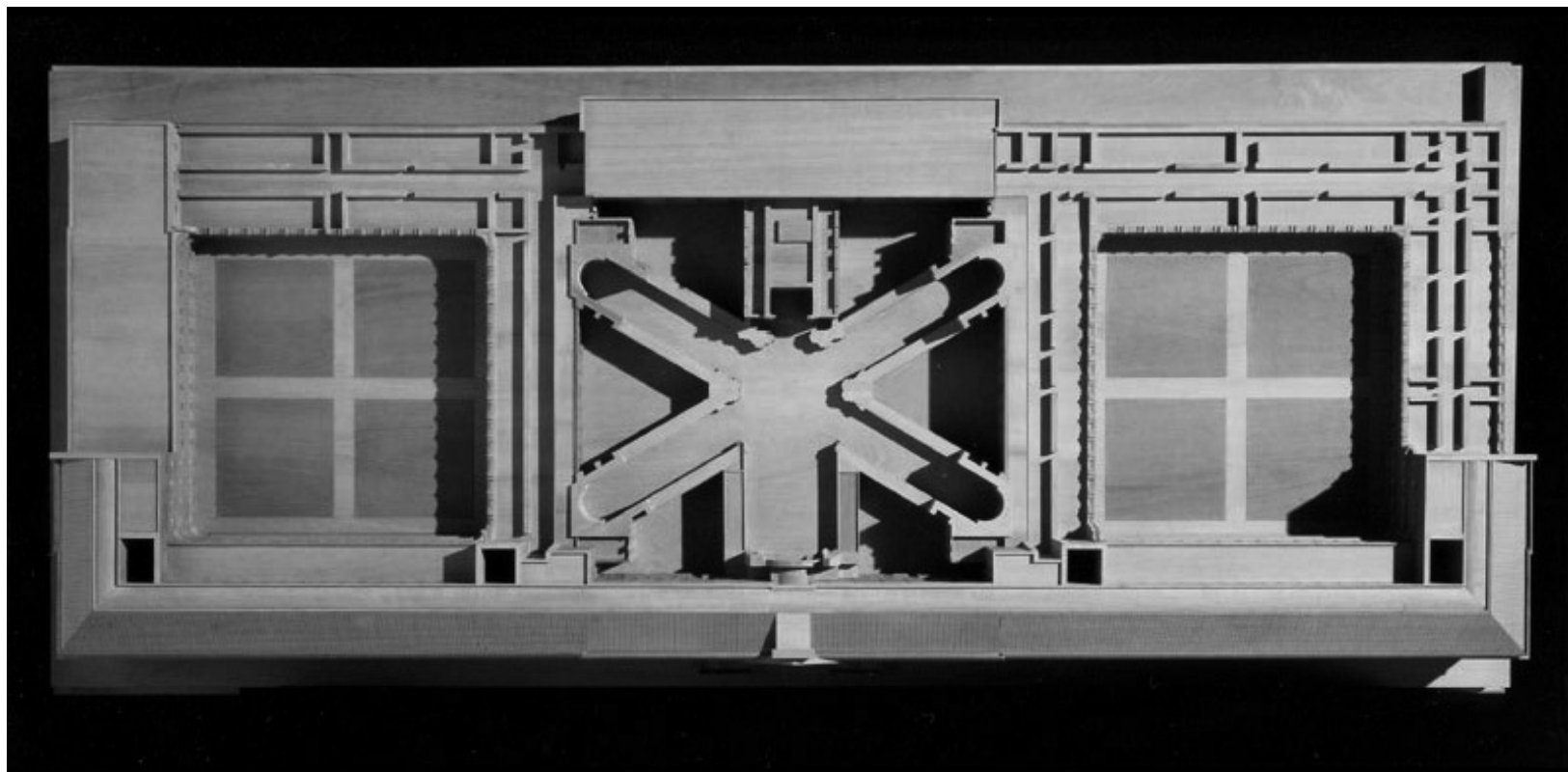
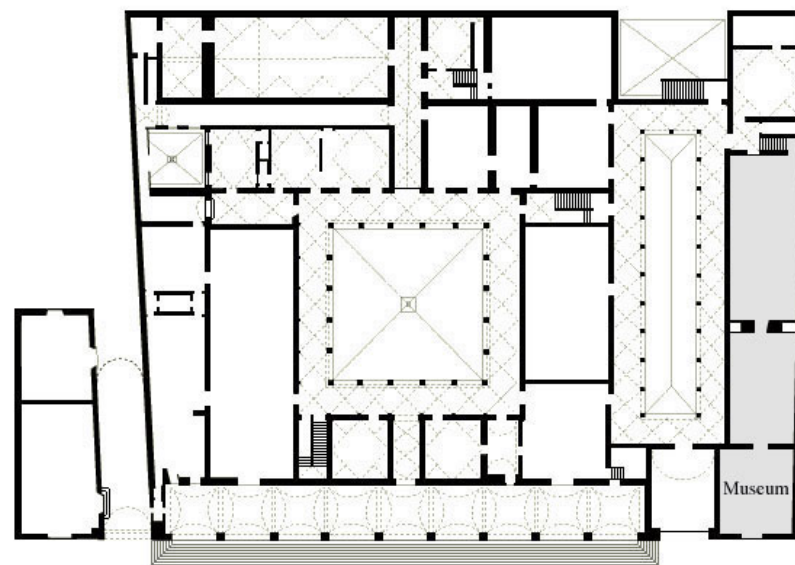
SITEplan

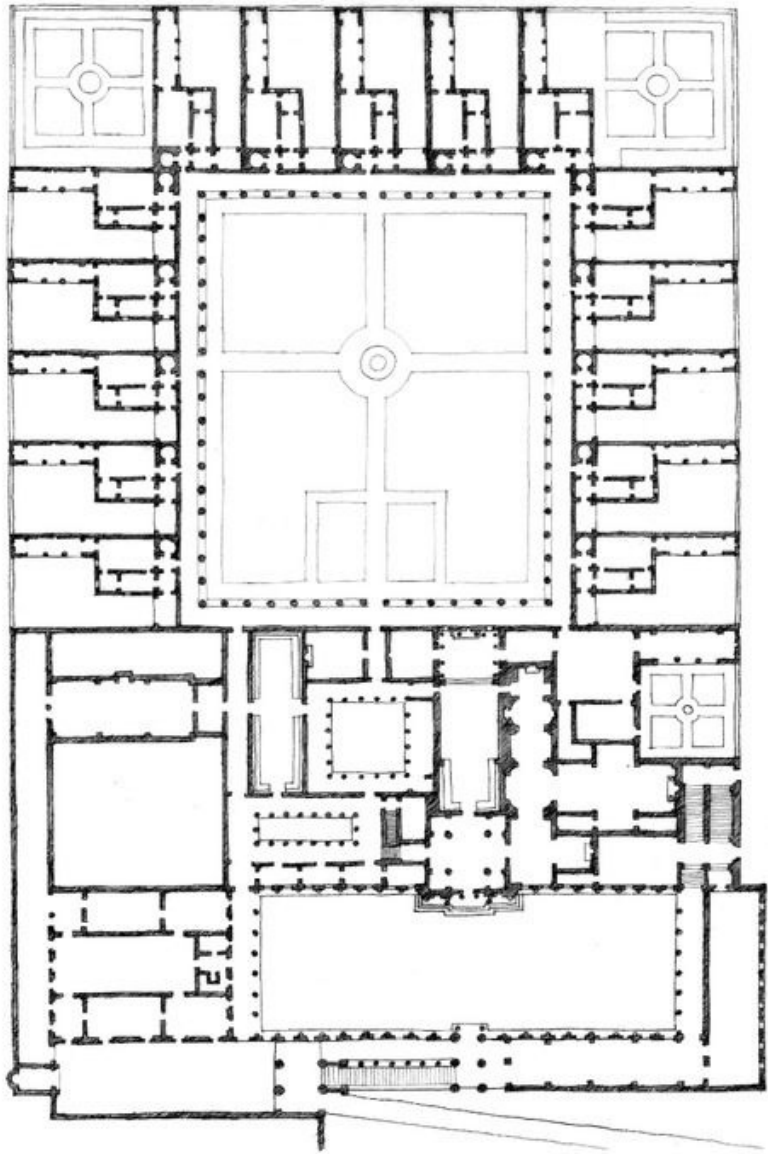




ALBERGO DEI POVERI OSPEDALE DEGLI INNOCENTI

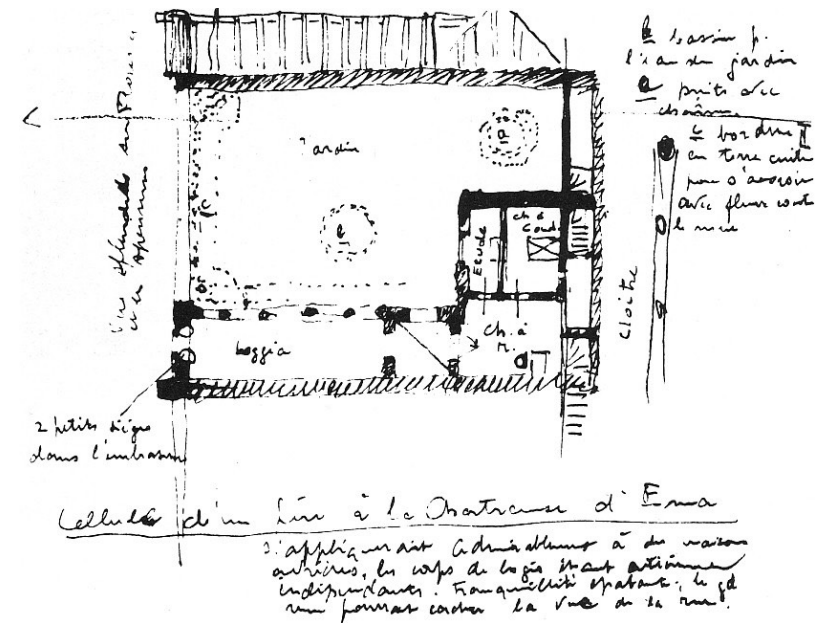
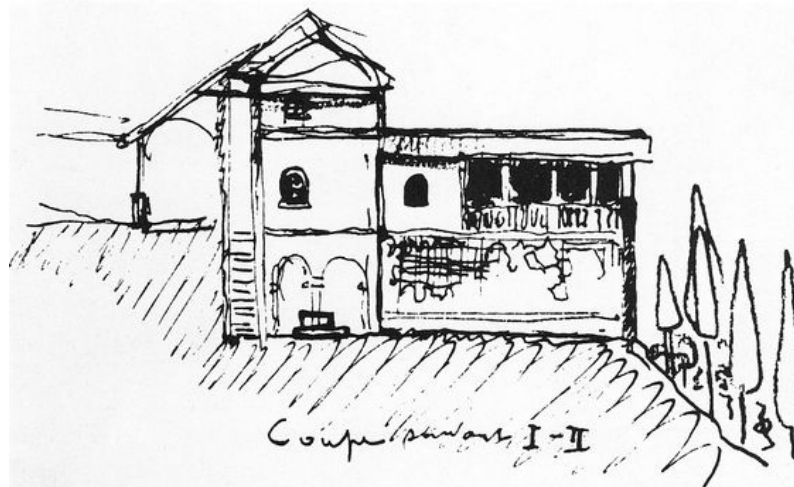
Spedale degli Innocenti





CERTOSA DEL GALLUZZO
Massimo Tosi

**CERTOSA
DEL GALLUZZO
FLORENCE**

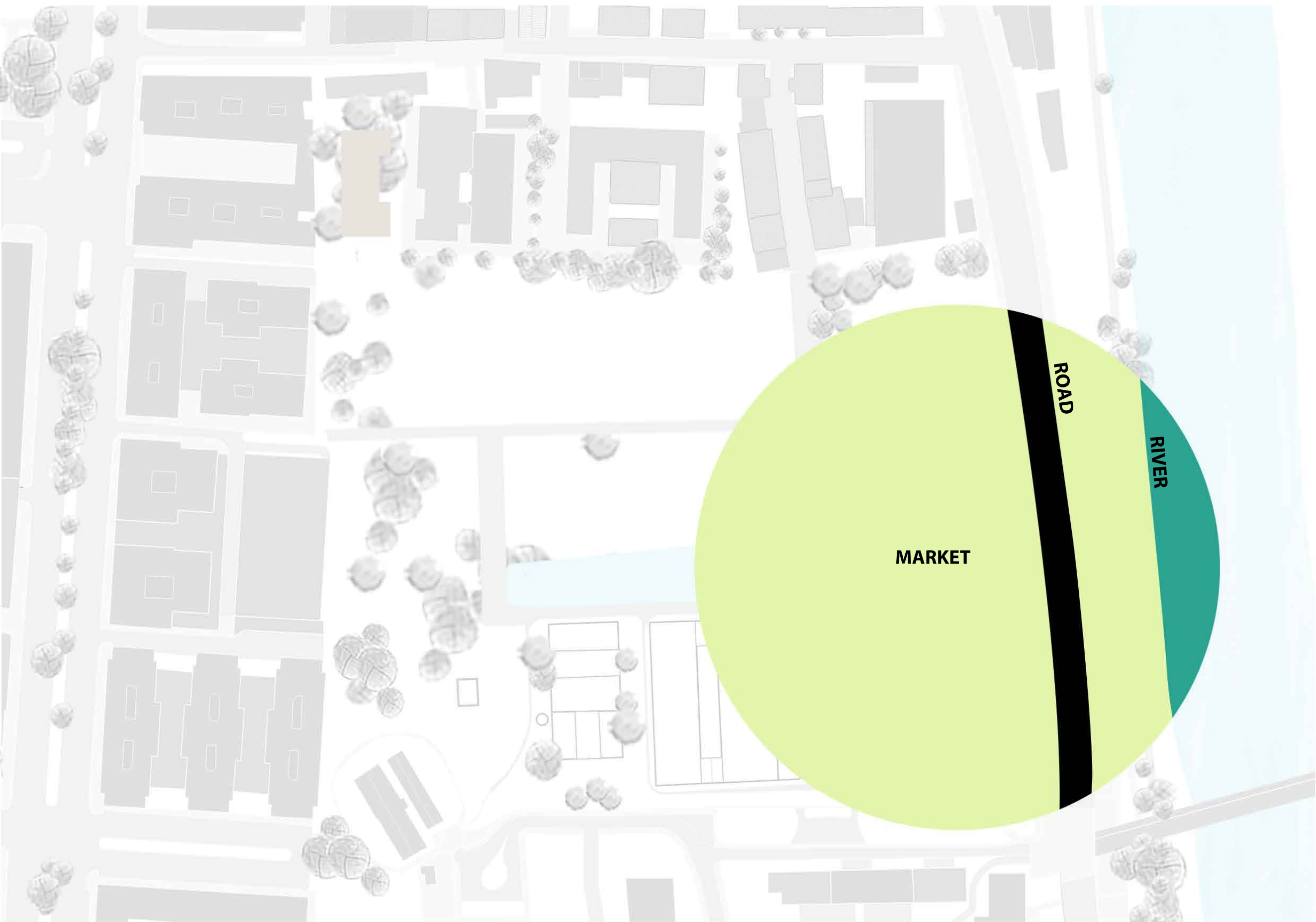


**RELATION
OF THE BUILDINGS
ON THE SITE**

SITEplan



SITEplan

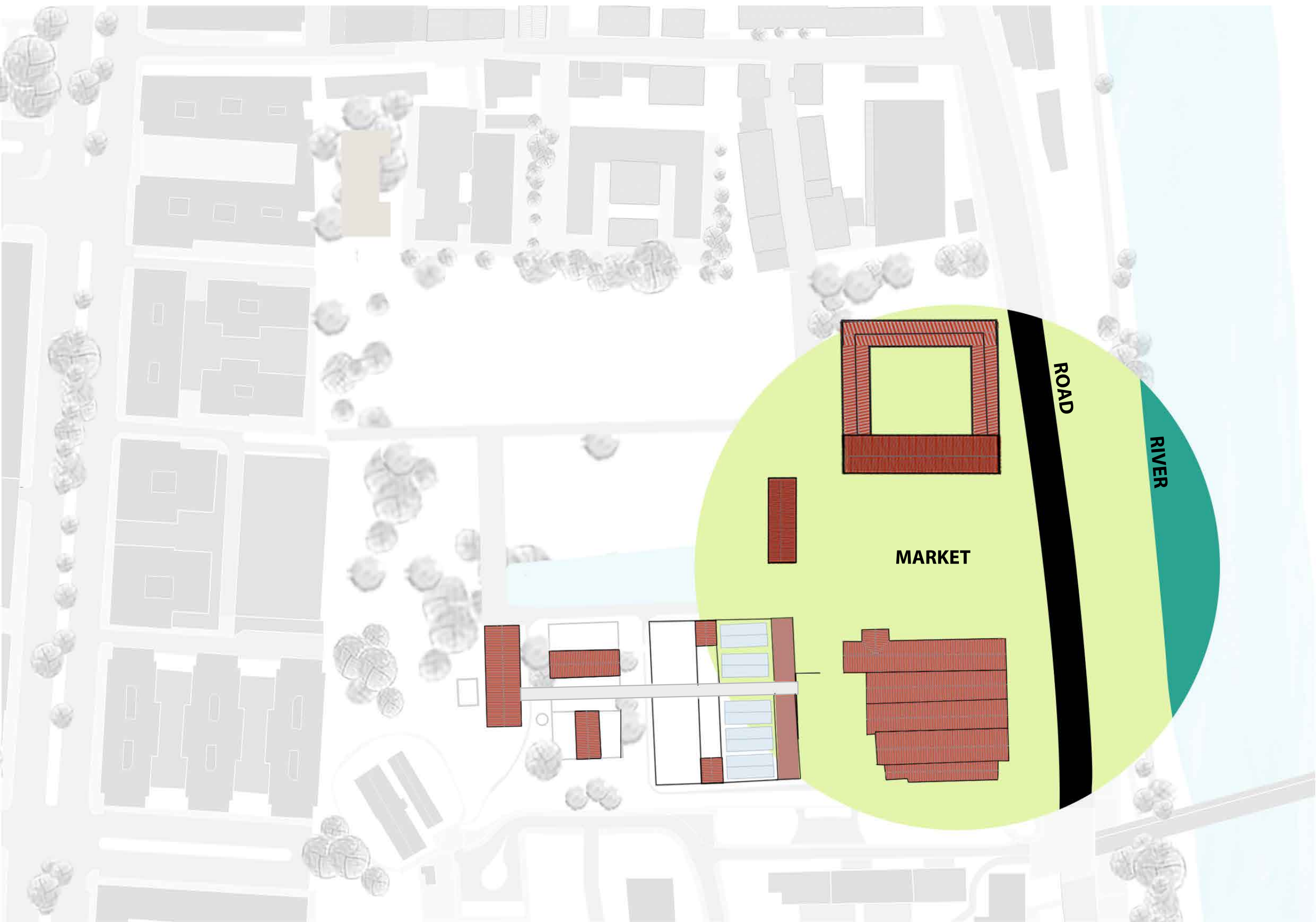


MARKET

ROAD

RIVER

SITEplan

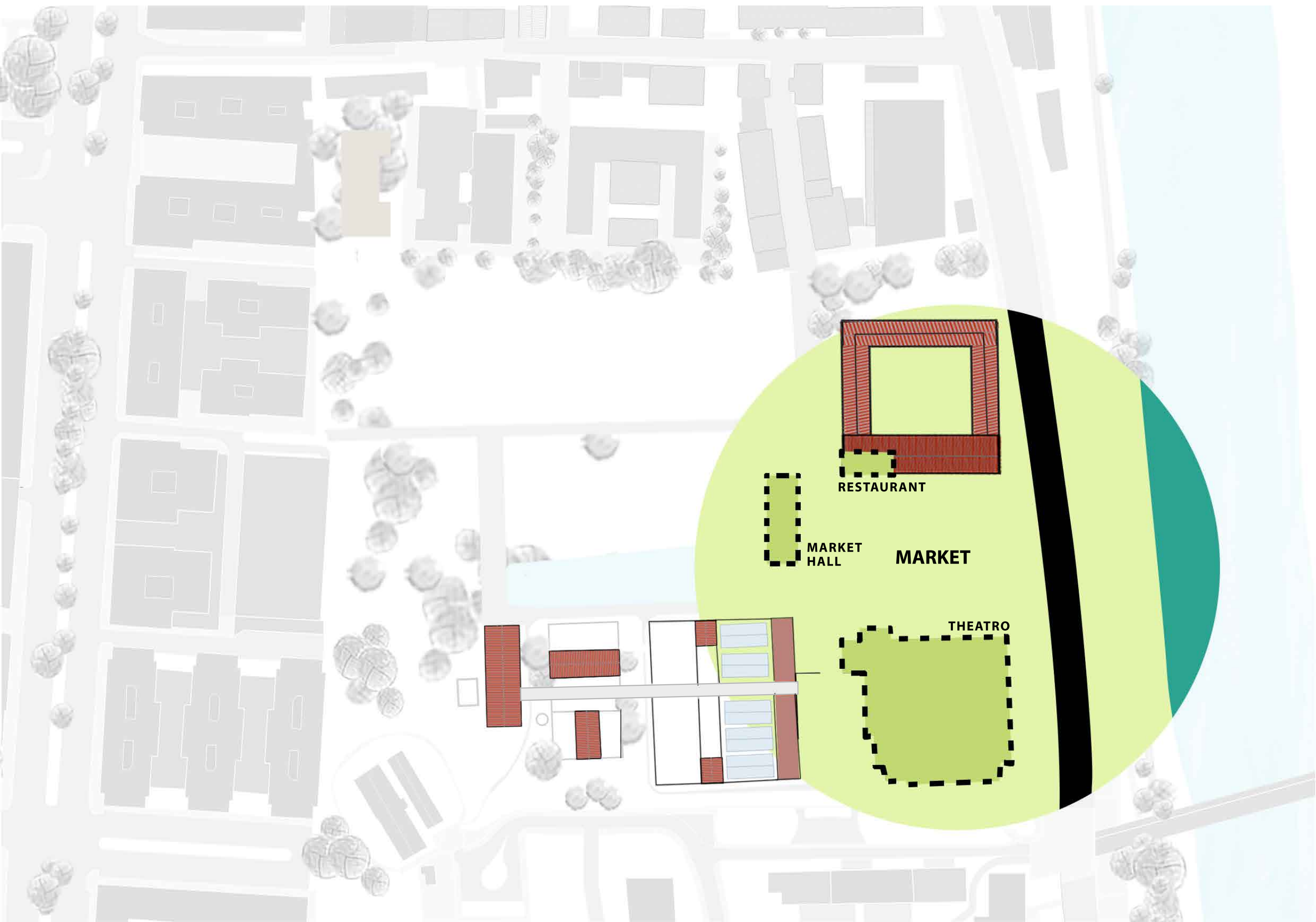


ROAD

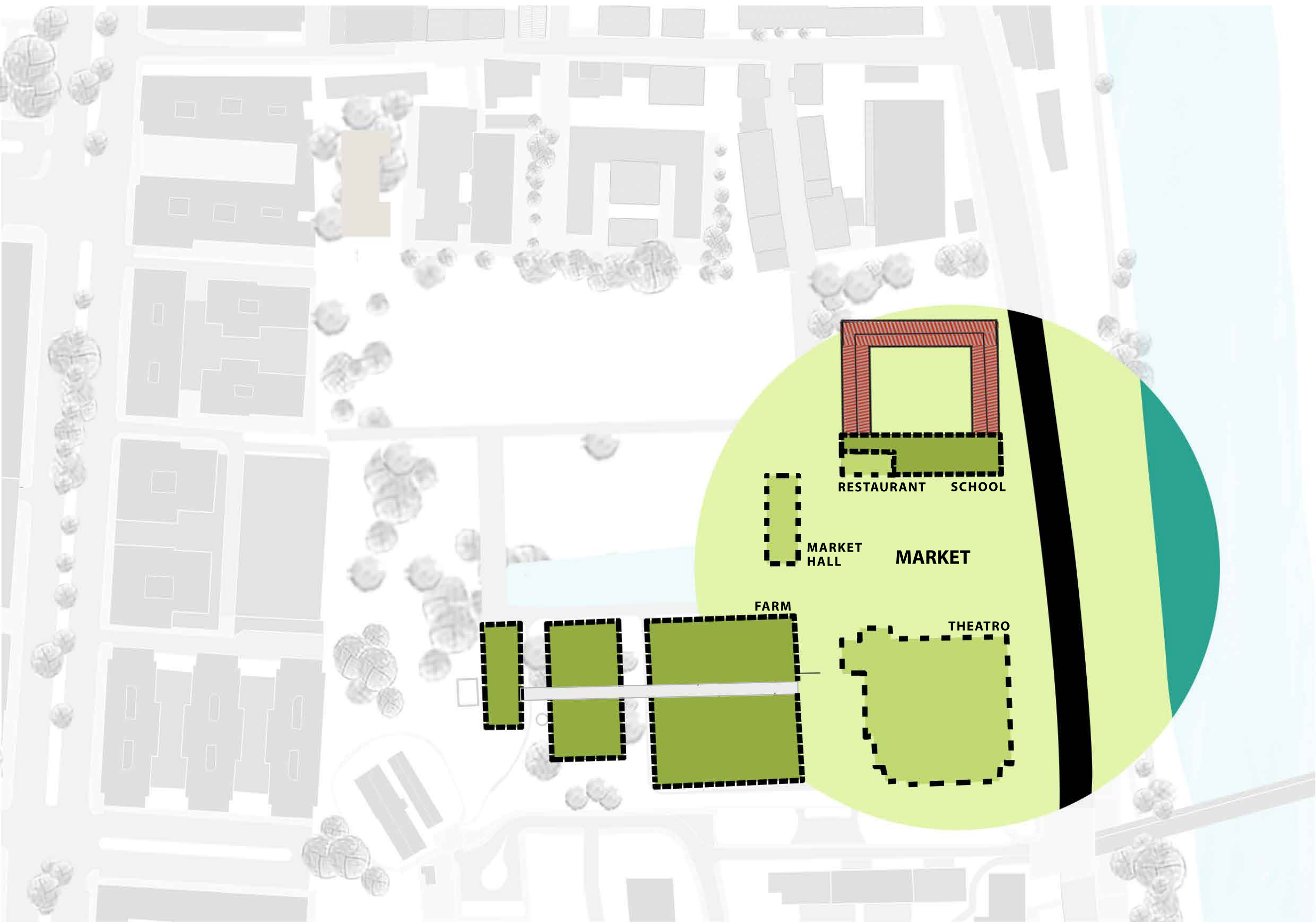
RIVER

MARKET

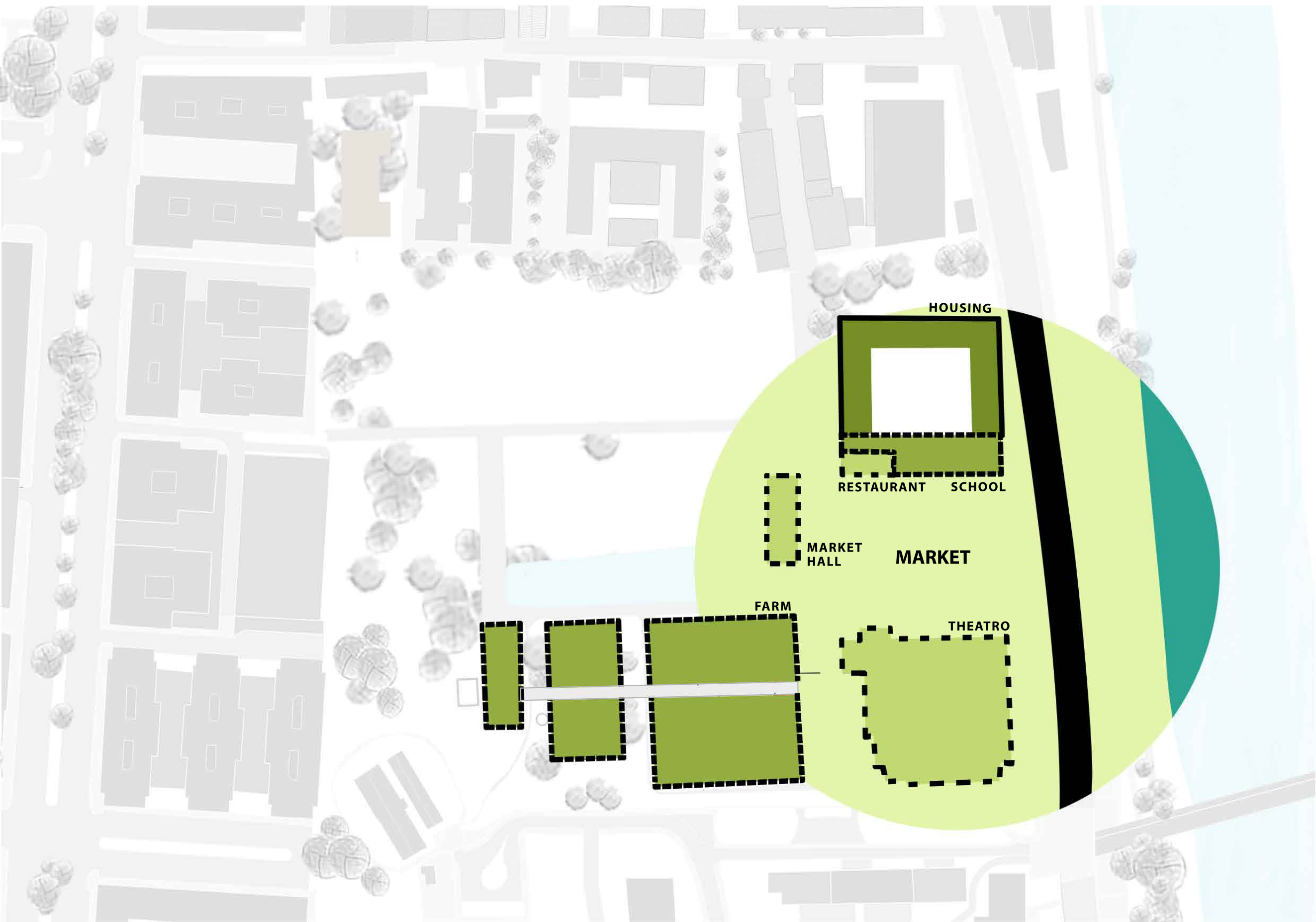
SITEplan



SITEplan



SITEplan



HOUSING

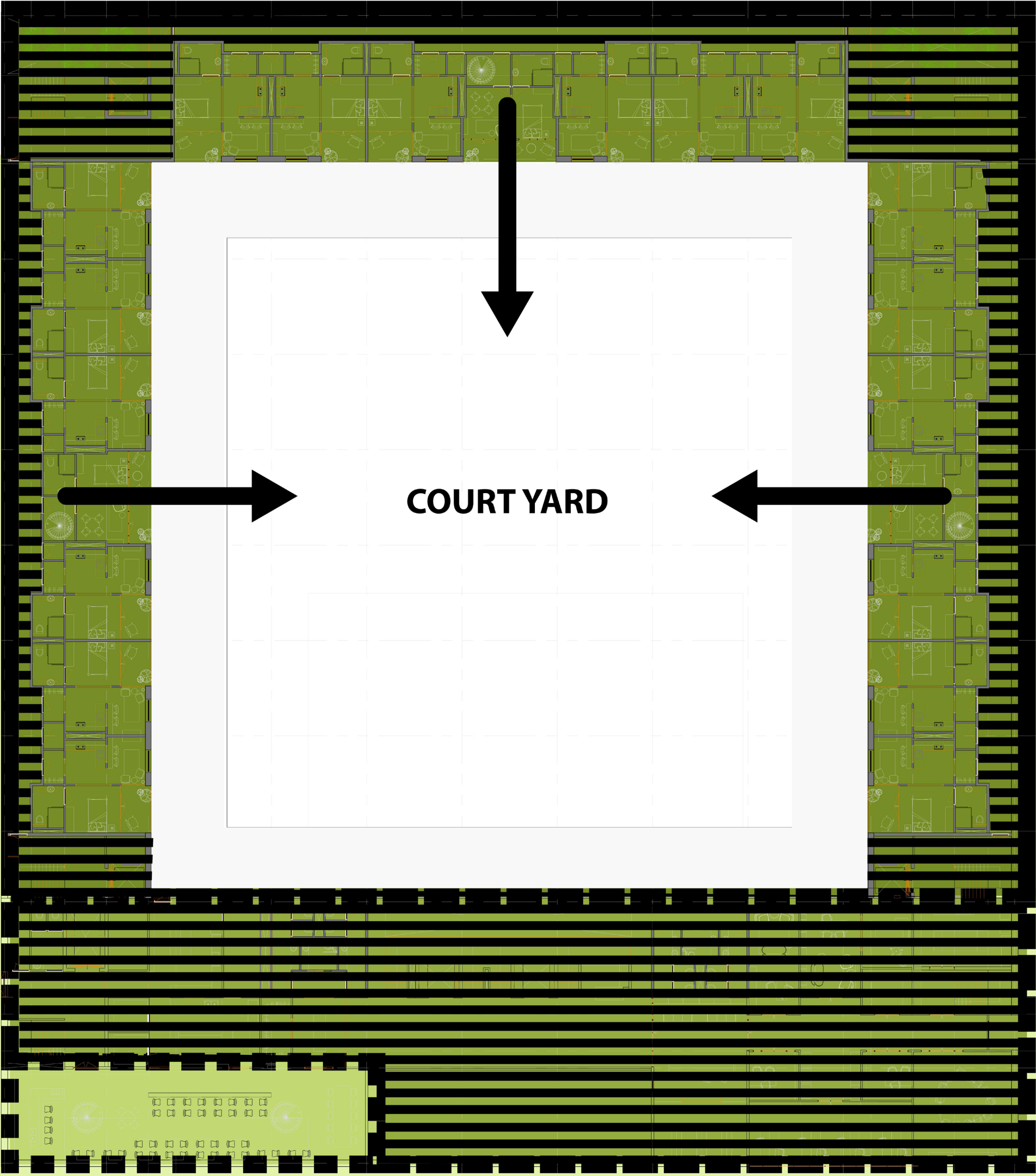
RESTAURANT SCHOOL

MARKET HALL MARKET

FARM

THEATRO

PRIVATE HOUSING



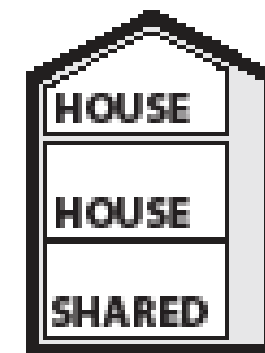
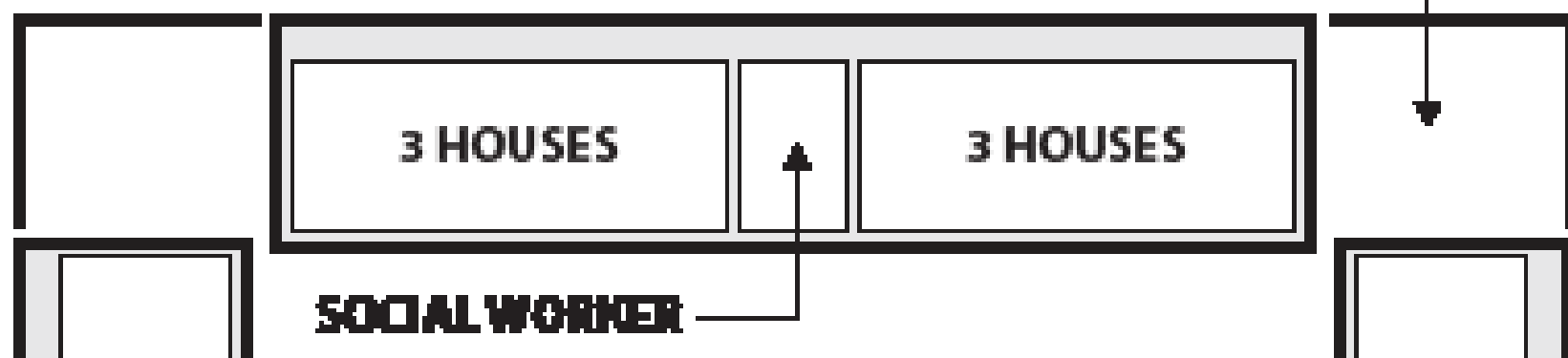
COURT YARD

RESTAURANT

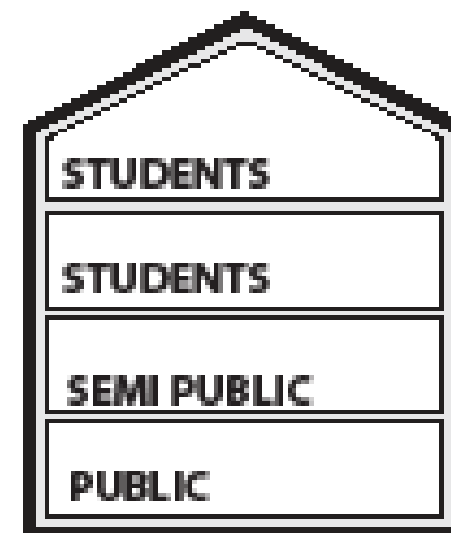
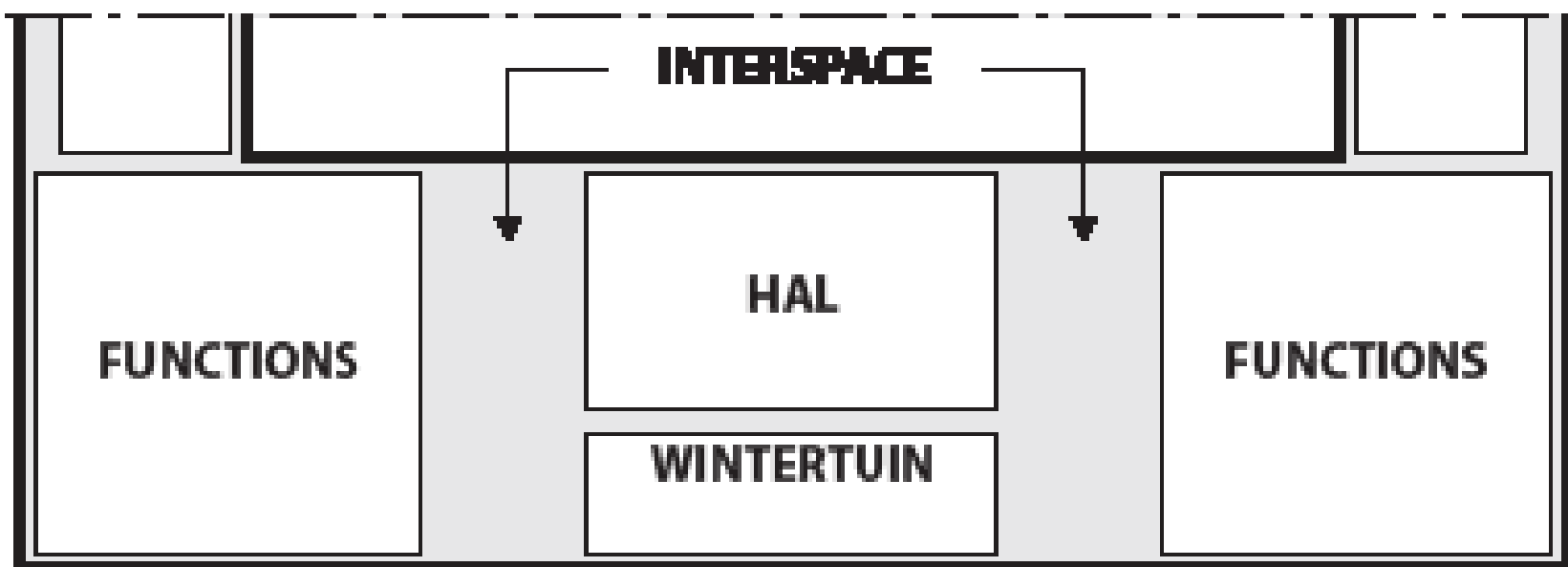
SCHOOL

RESIDENTIAL

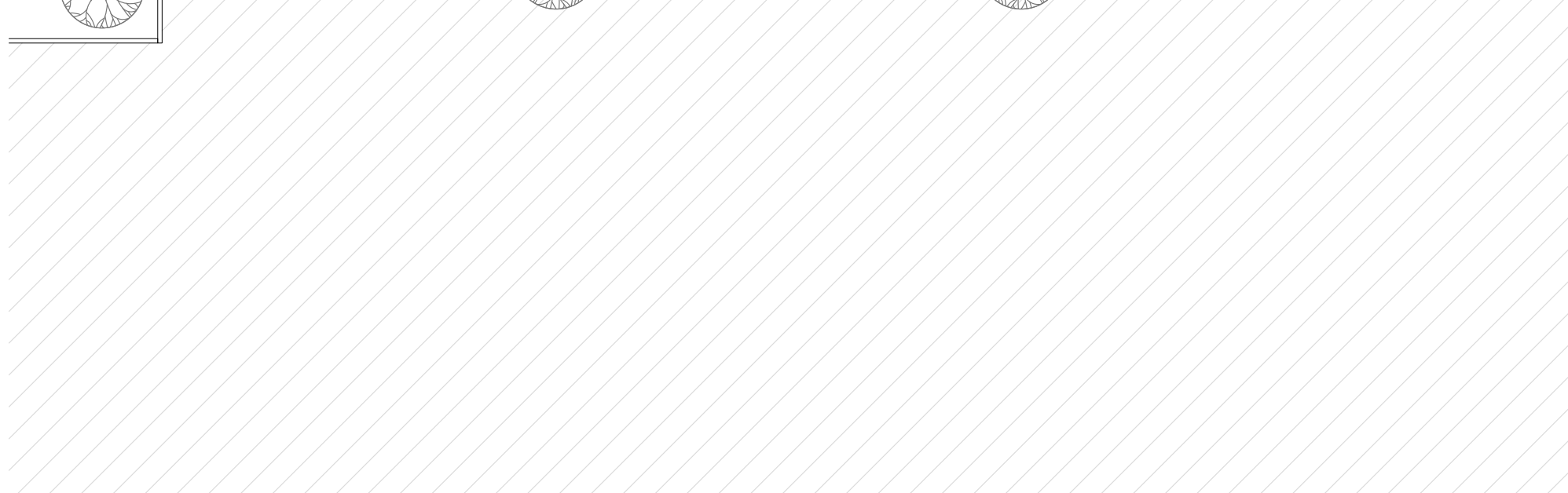
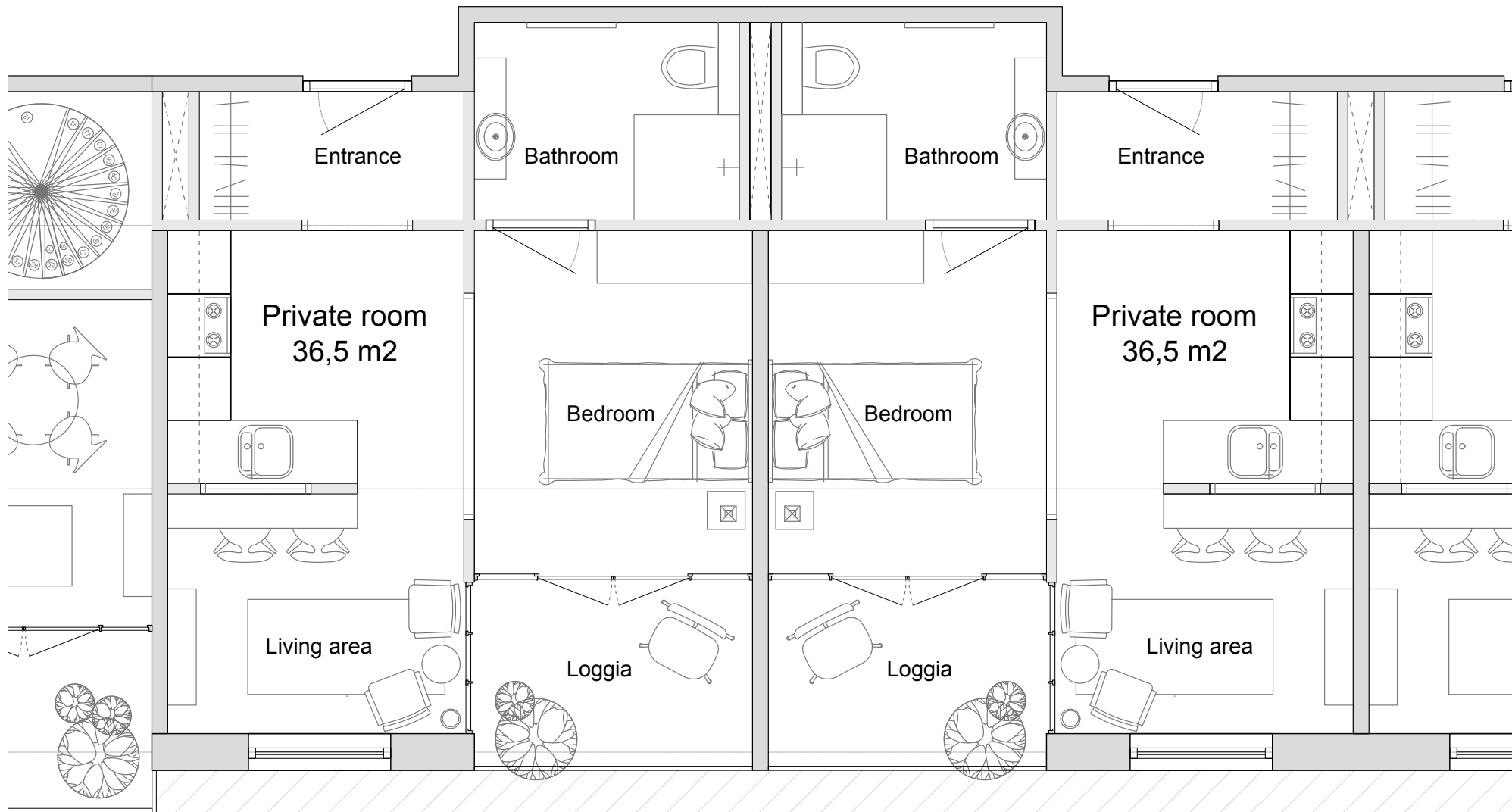
SEMI OPEN



INTERSPACE



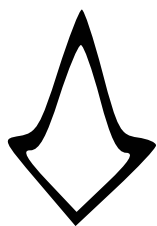
SCHOOL



**IDENTITY
OF THE BUILDING**

Trade School

**learning to farm, cook,
sell items at the
market**



Rehabilitation centre

**re-entering the society,
finding a job, a purpose,
sence of community**



Home

**comfort of everyday warm
shelter, bathroom and
company**







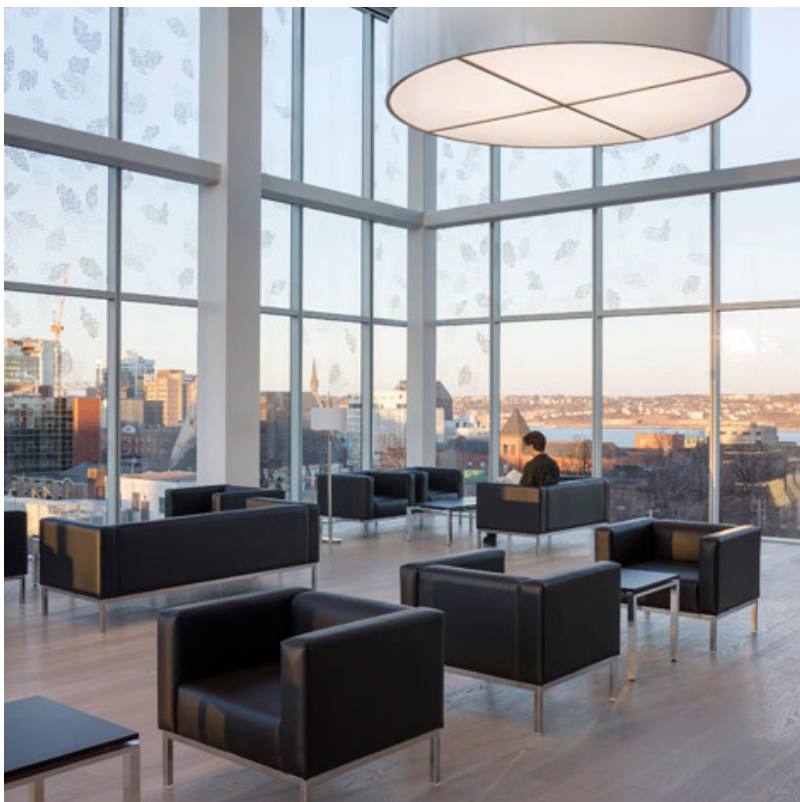


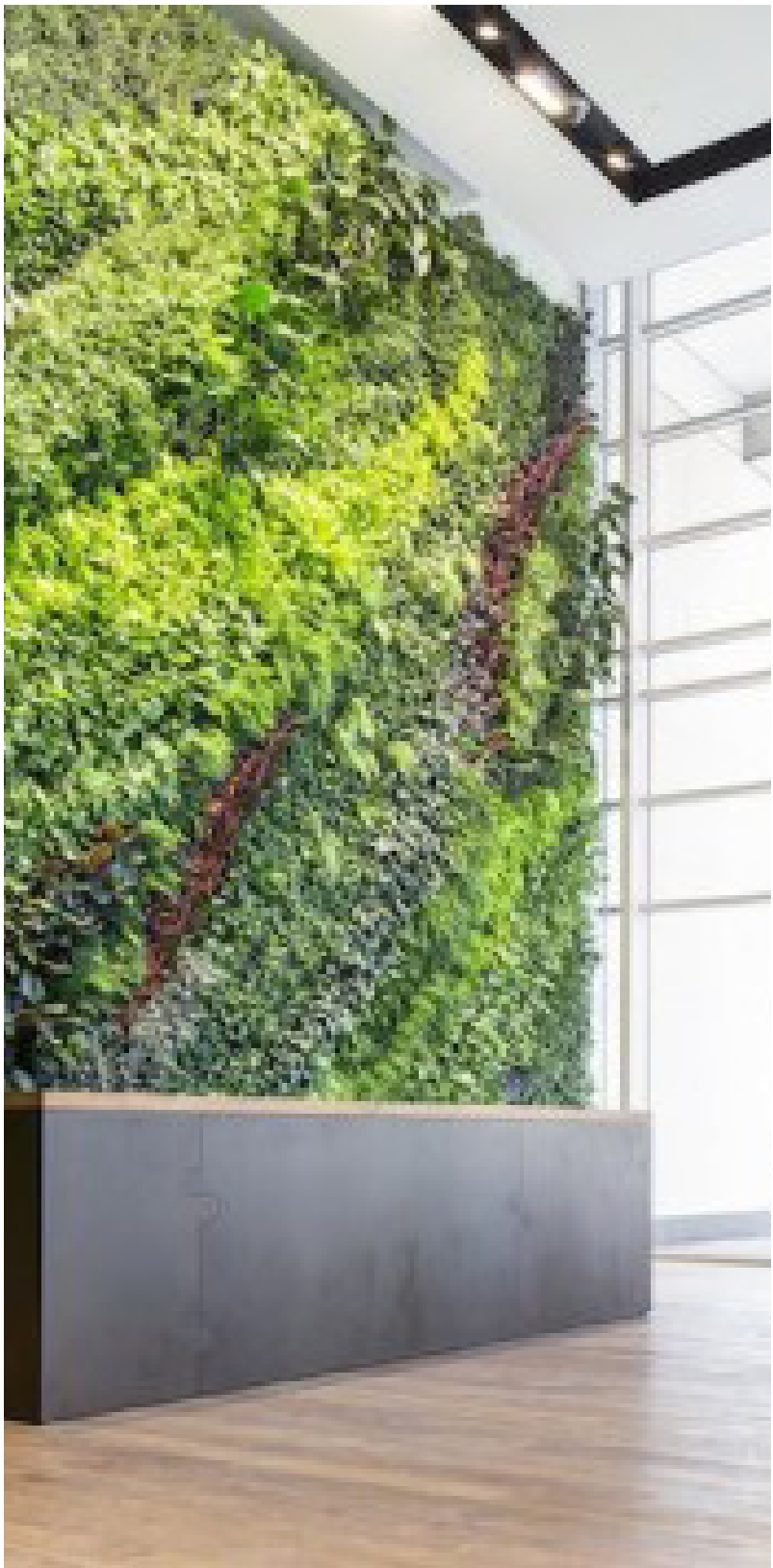
MATERIALS



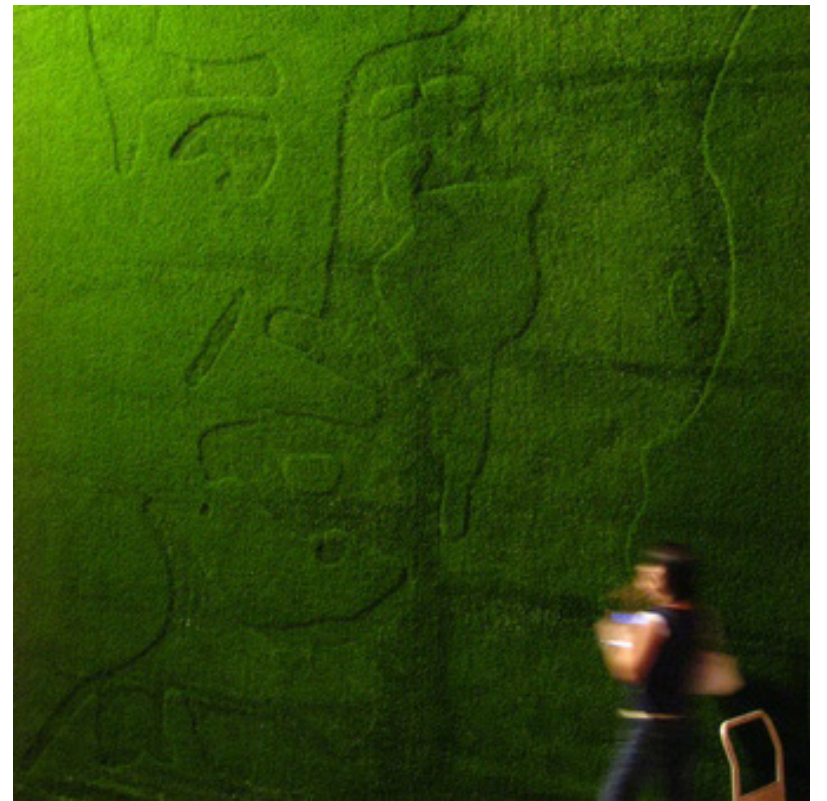


MATERIALS

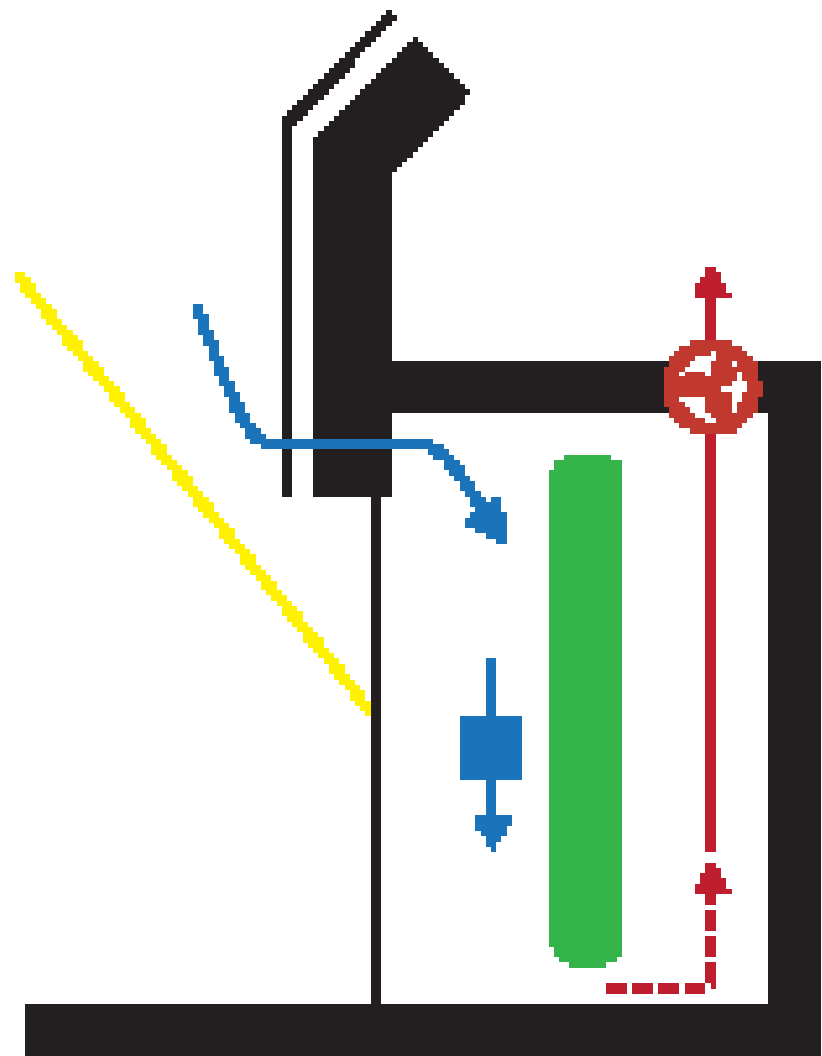




MATERIALS

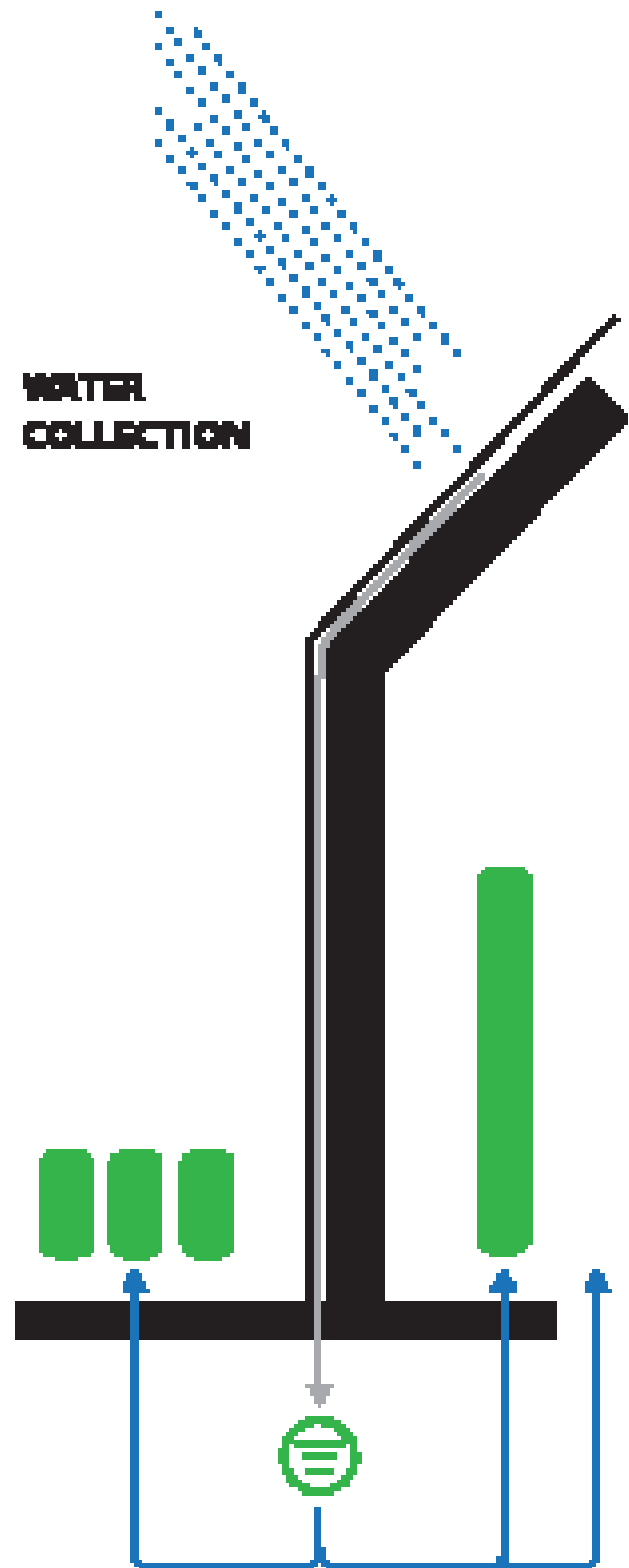


**OPEN
AREAS**



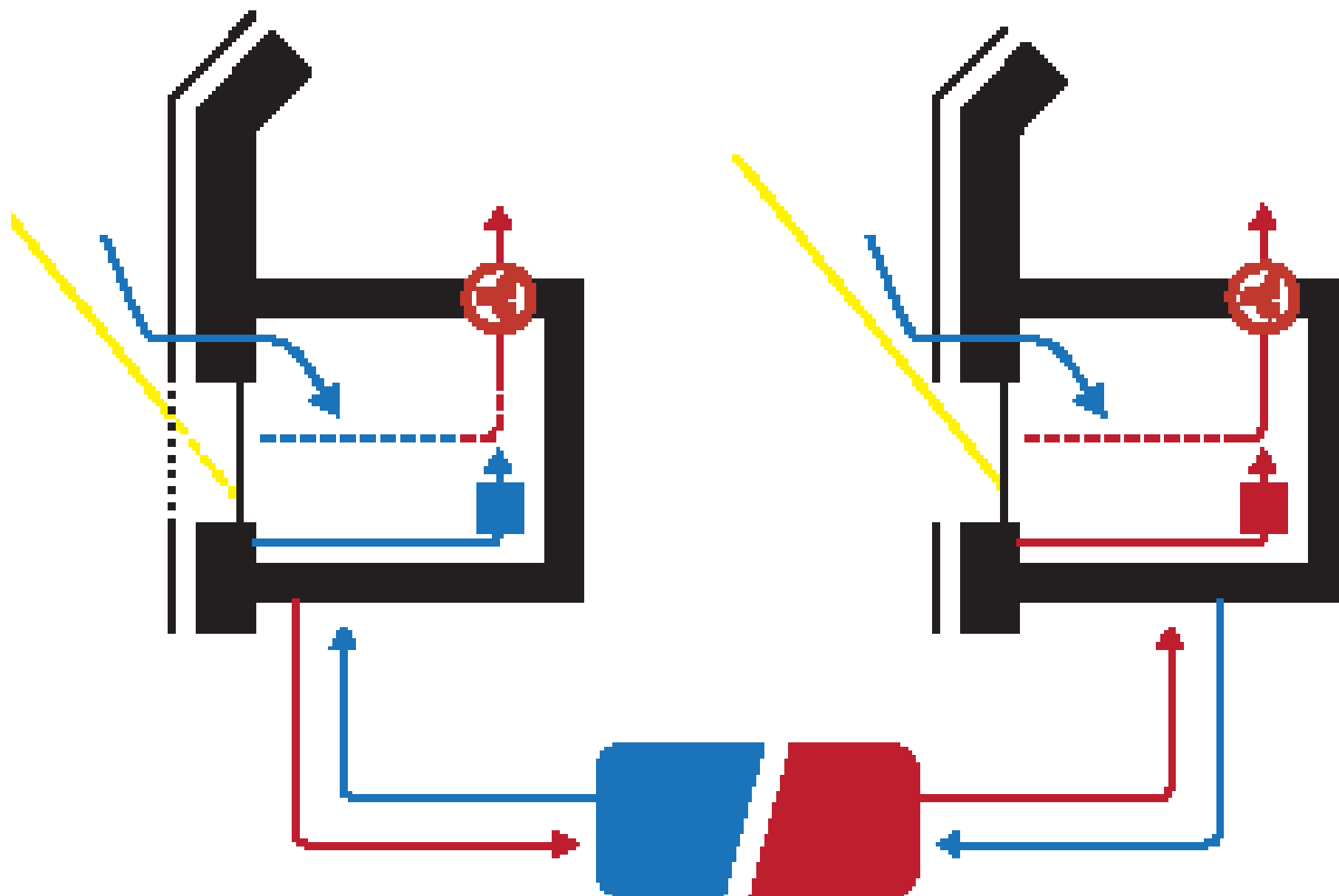
*undimitted public areas
*passive cooling through green wall

**WATER
COLLECTION**



SUMMER

WINTER



- shutters to prevent overheating
- wall cooling with hybrid system
- operated through geothermal source
- natural ventilation to draw cool air

- open windows to allow natural heating
- wall heating with hybrid system
- operated through geothermal source
- natural ventilation to draw fresh air

CLIMATE control



Wall heating

constant low distribution
of temperature
heat pump in combination
with solar collector

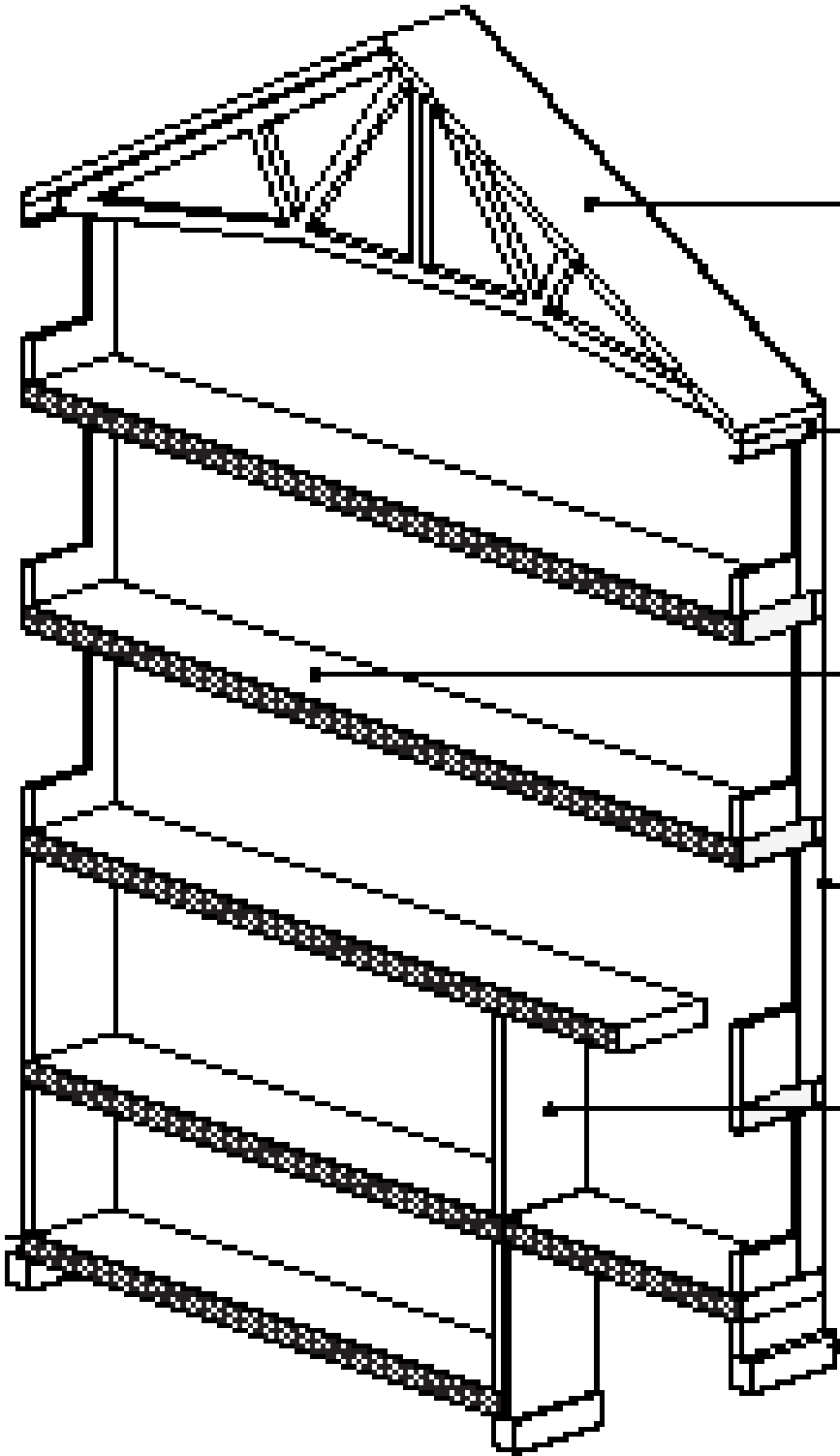
PLUS

reduce energie use
comfortable climate
can also be used to cool

SYSTEM

works the same as floor
heating systems, a net-
work of hot-water pipes,
a large surface is heated,
which emits radiant heat.
to achieve optimum per-
formance often combined
with clay plaster.

architectuur als klimaatmachine



WALL BEAM
 Wall-to-wall secondary
 beam, which supports floor of
 structure from beam to beam.

STEEL BEAM
 Steel beam, which supports
 secondary structural wall
 opening.

FLOOR
 Floor, one design and supports
 from wall to wall.

LOCAL BEAM
 Local beam, which
 supports the sub-structure
 from face to face.

SECONDARY LOCAL BEAM
 Local beam, secondary wall,
 which has structural inter-
 ruptions and are
 parallel to the beam.

CONCRETE BEAM
 Local beam, concrete beam,
 which transfers the
 structural load to the column.

WALL BRACING
Full-height load-bearing
braces that support the wall
structure from beam-to-beam.

ROOF
Roof purlin supports the
ceiling structure and stabilizes the element
between floors.

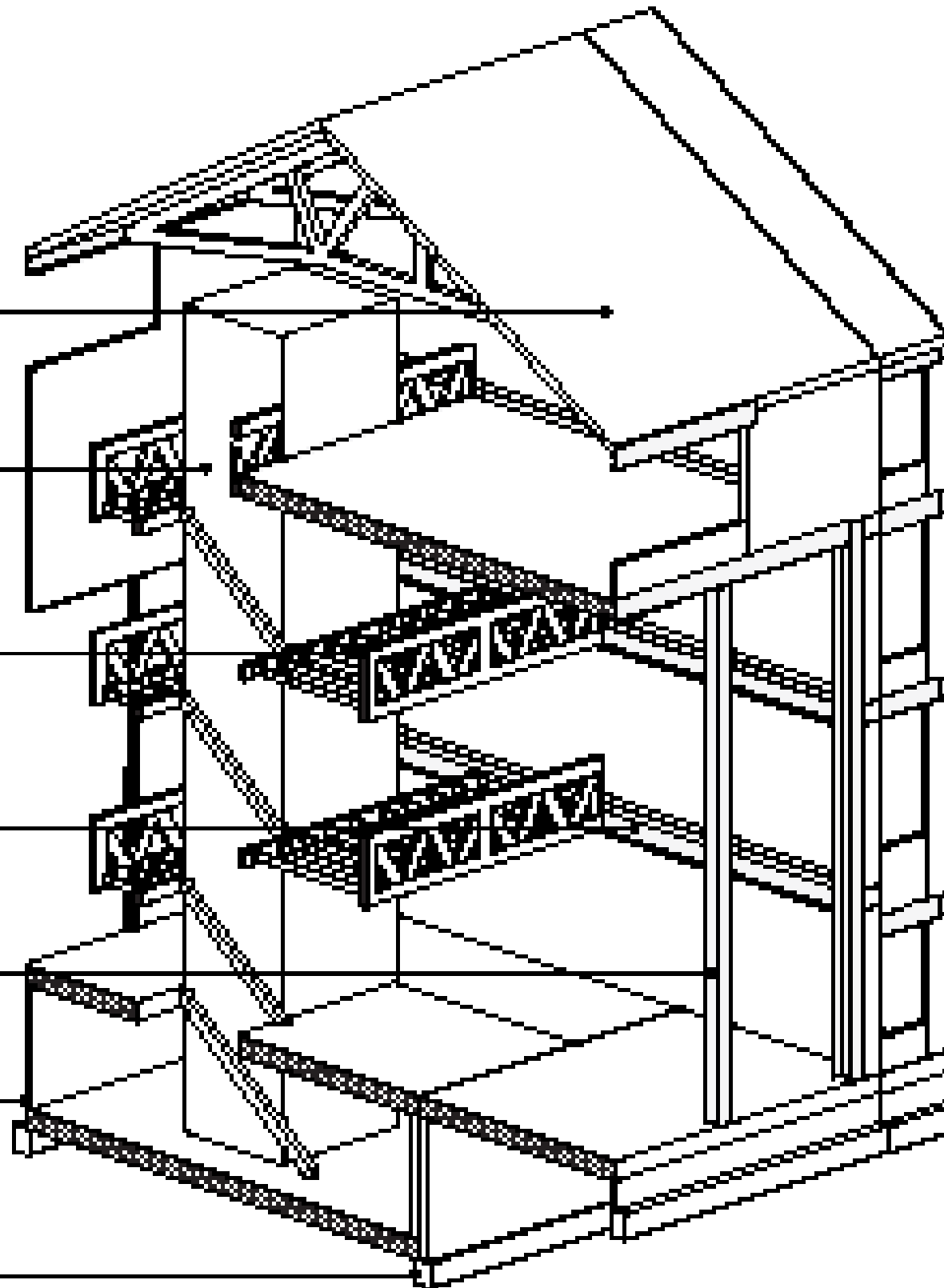
ROOF TRUSS
Load-bearing structure spanning
between steel structures
in order to support the light
weight ceiling floor.

ROOF BRACE
Member that transfers the load
from the ceiling structure
towards the outer walls.

ROOF BEAM
Beams that support the large
opening for the glass facade.

ROOF WALL
Load-bearing walls, which
support the whole structure
from facade to facade.

FOUNDATION
Load-bearing concrete foundation, which transfers the
structural loads to the ground.



A close-up photograph of a small green seedling with two leaves growing from a crack in asphalt. A tiny insect is perched on the stem of the plant. The background is a blurred asphalt surface.

**INTERSTICES
OF FARMLAND**