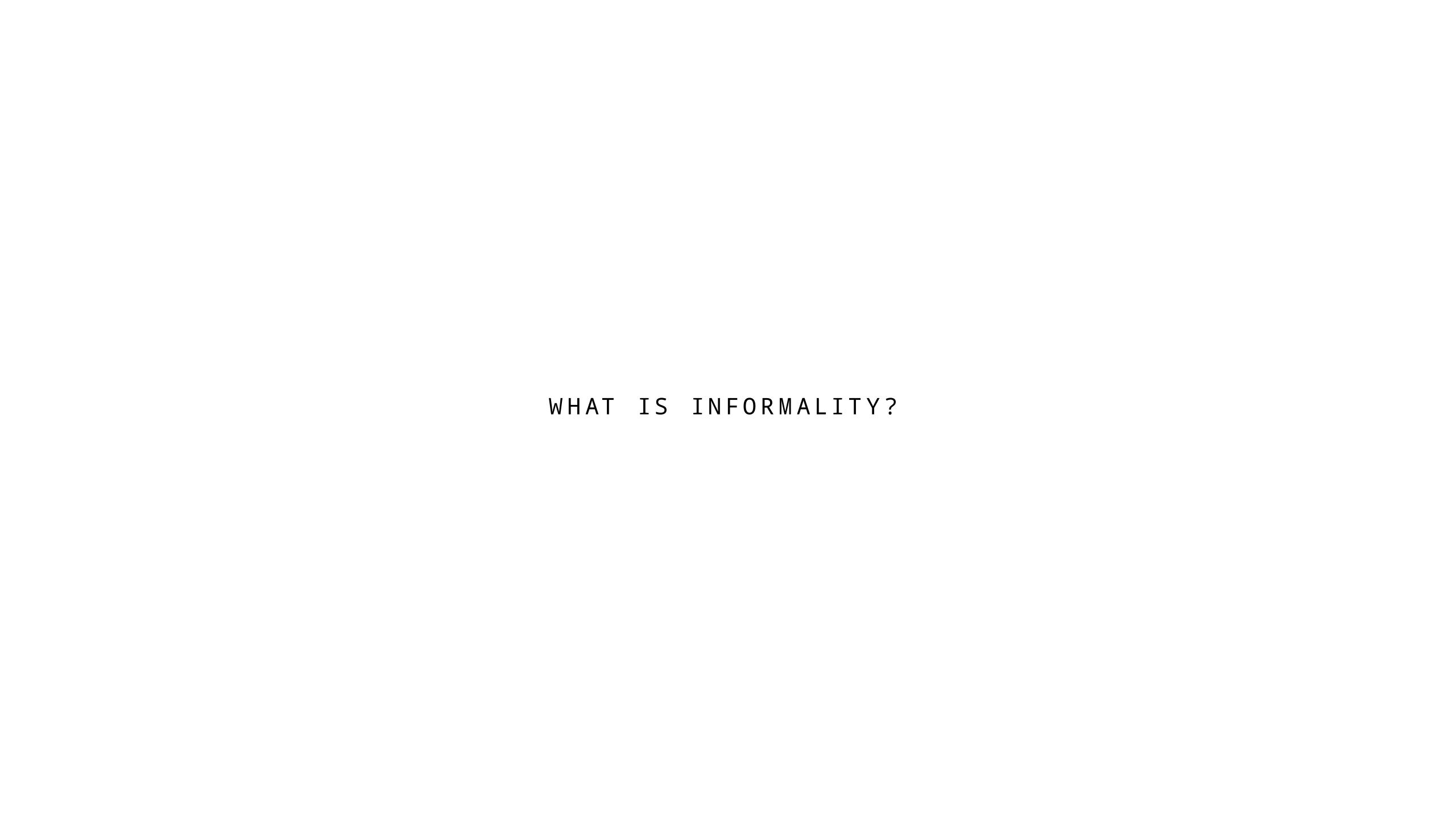
EMBRACING URBAN TEMPORALITY





lt's a lack of ...

inadequate access to safe water
inadequate access to sanitation and other infrastructure
poor structural quality of housing
overcrowding

there are different lenses

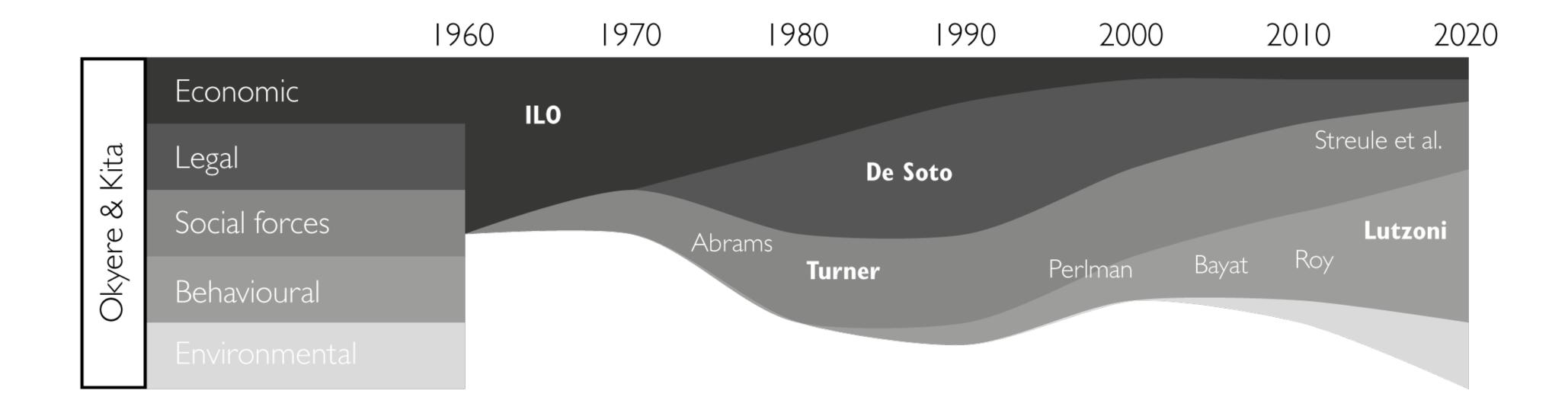
economic - labour flows & income generation

legal - occupation, tranfers, interaction, negotiation

social - social activities and actions

behavioural - mobility, moving between the formal and informal sustainable - ability to deal with climate change + resilience

there are different lenses



there are different lenses

dualists versus relationalists

there are different lenses

"an intermediate space between two conditions in which different forms of creativity may become manifest"

Lutzoni, 2016

there are different lenses

"an intermediate space between two conditions in which different forms of creativity <u>may become manifest</u>"

Lutzoni, 2016

<u>temporal</u>



TEMPORALITY

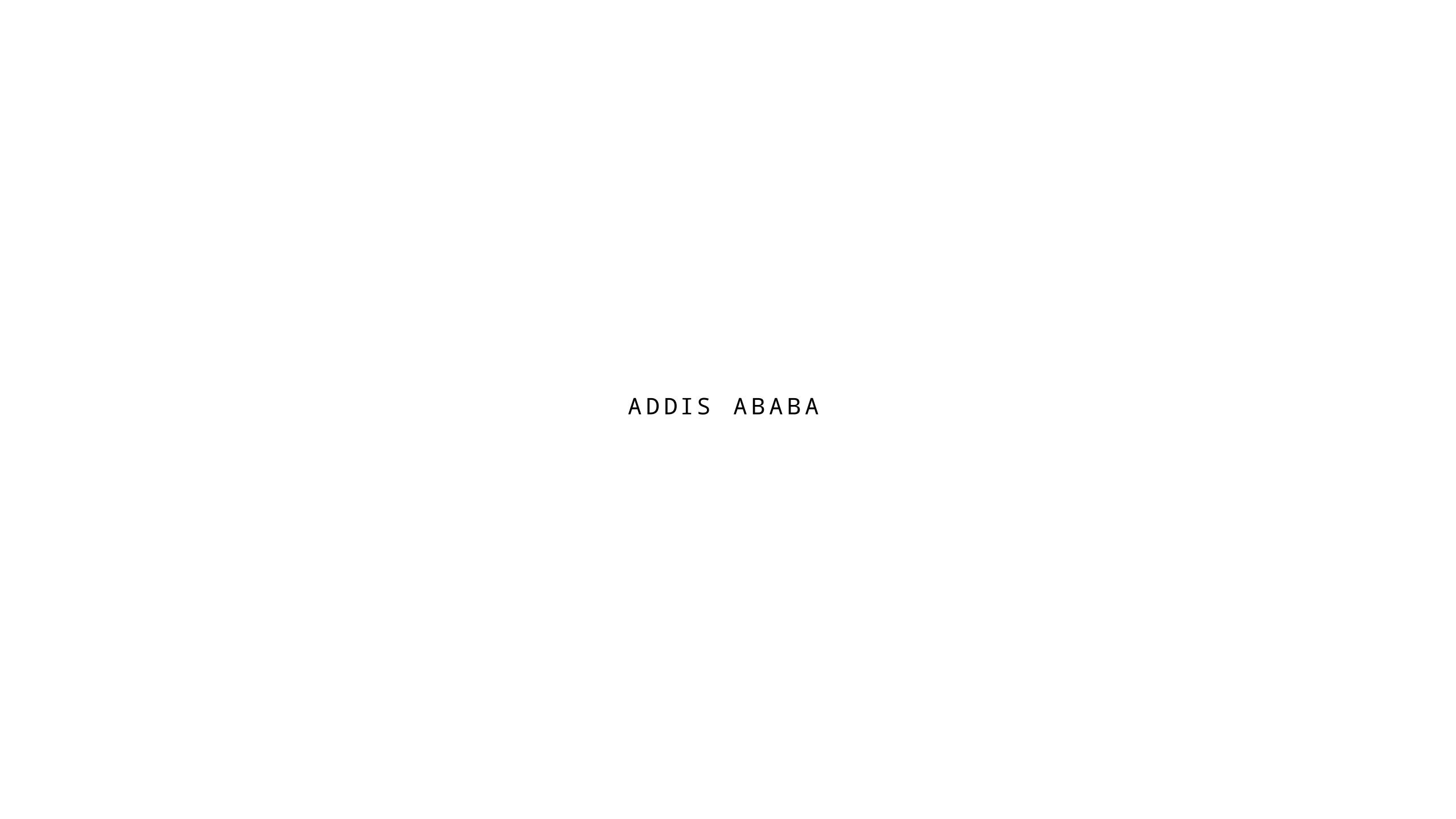
"looking at people and objects, dwellings, neighbourhoods, not as a finished and completed output, but as a process, realizing something that is better than it previously was"

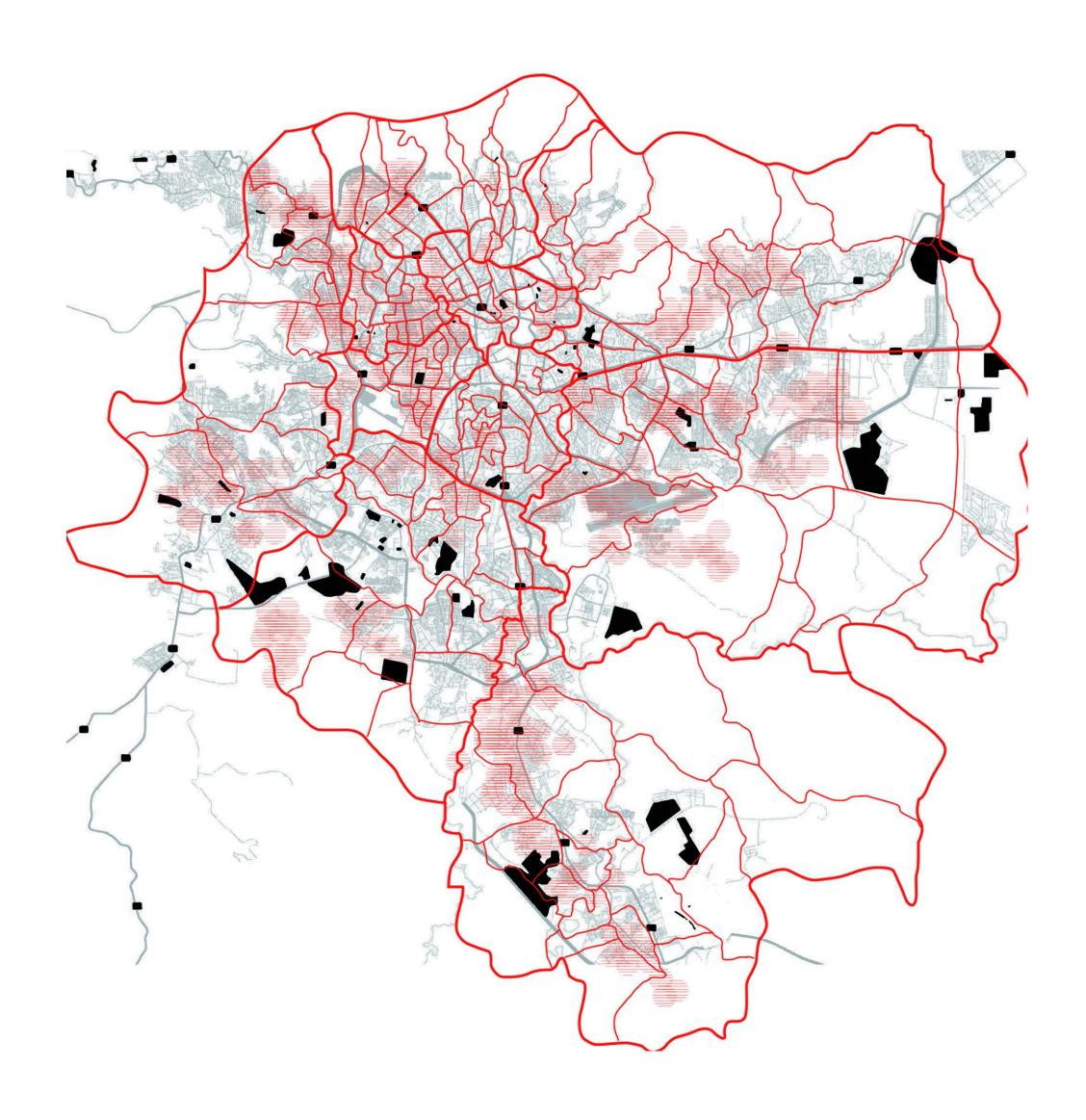
Lombard, 2013

TEMPORALITY

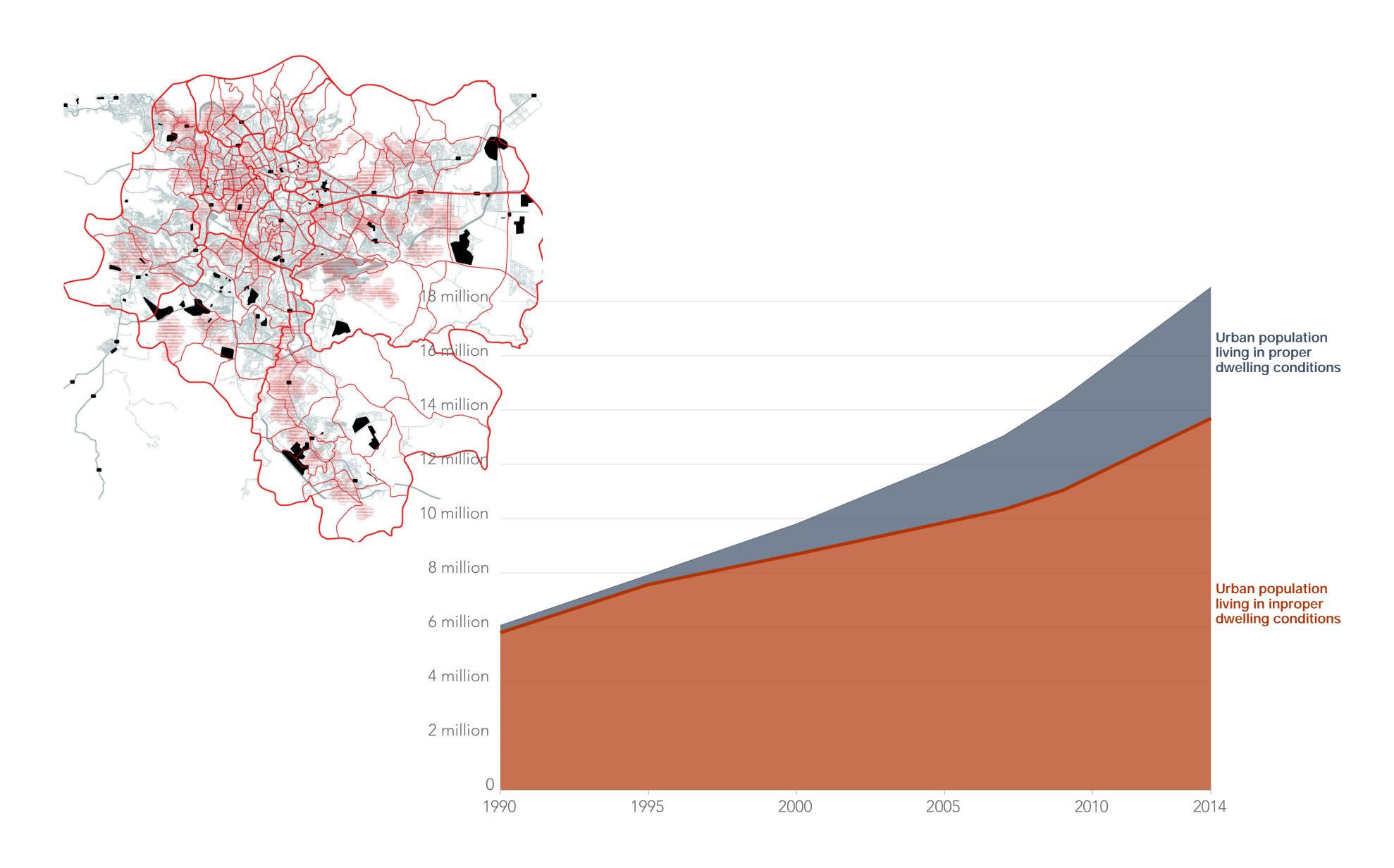
designing a space by designing its relations, rather than directly designing the physical output

informality - intermediate-space - temporality - designing-relations

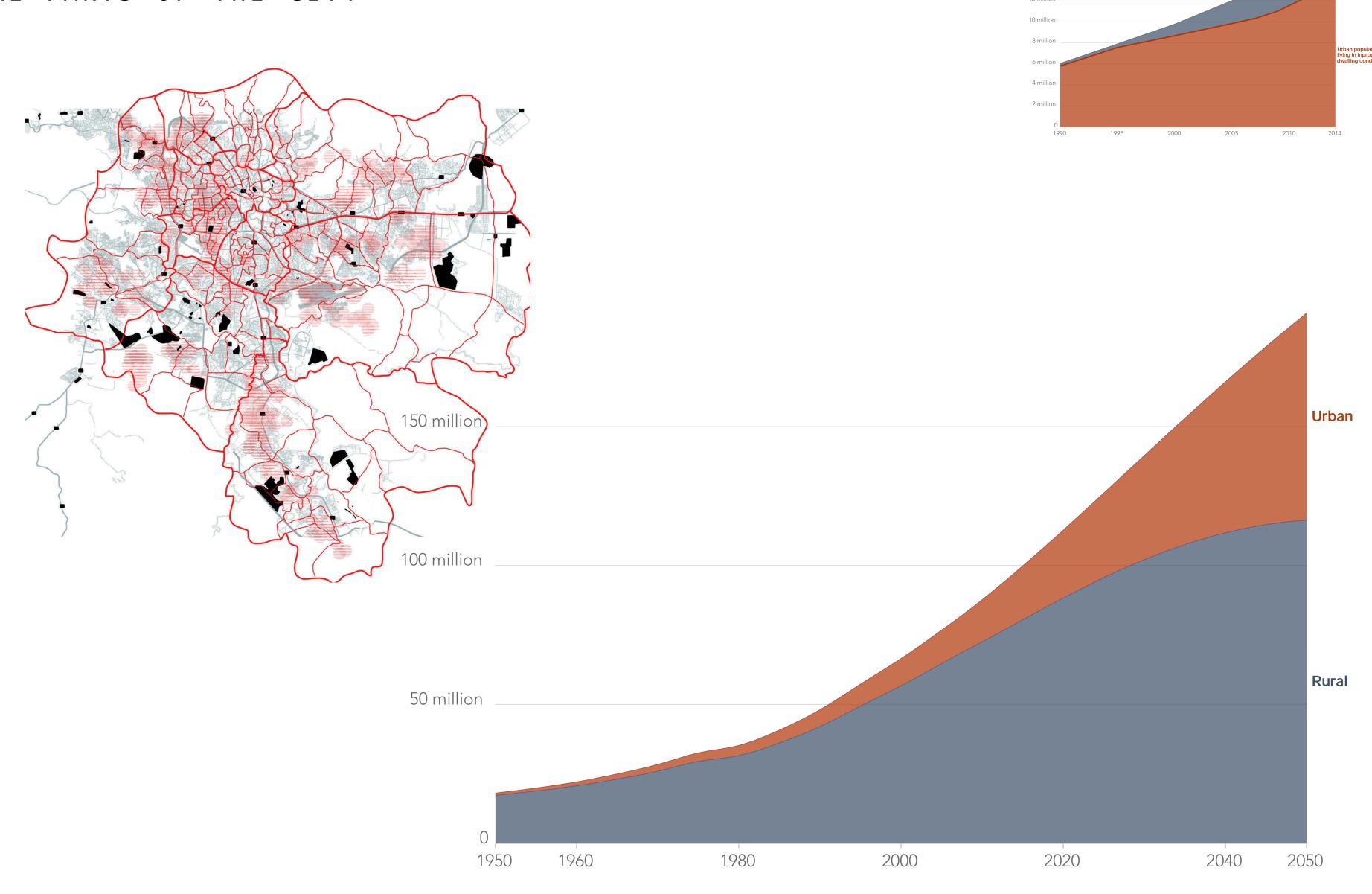




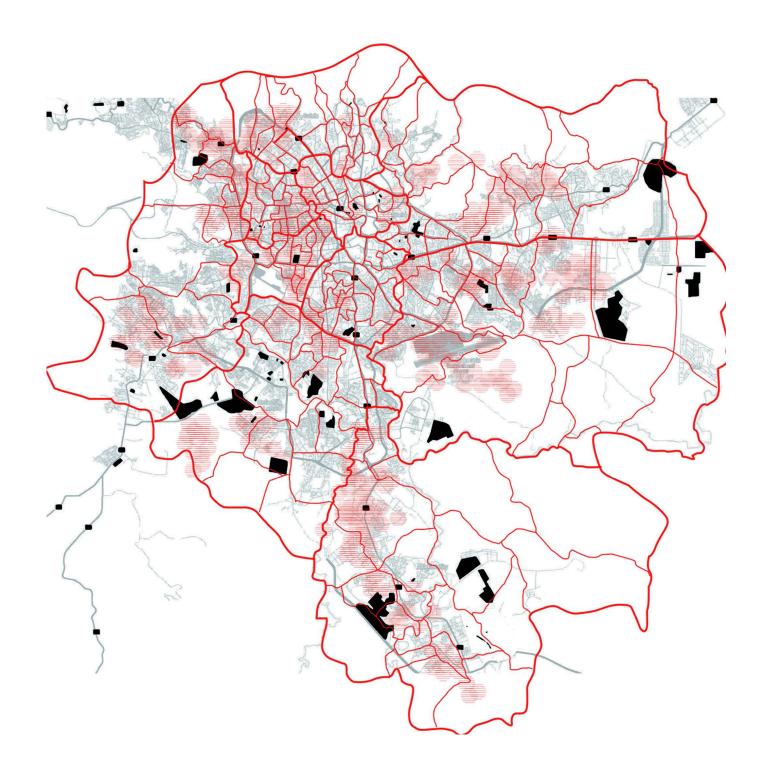
INFORMAL PARTS OF THE CITY

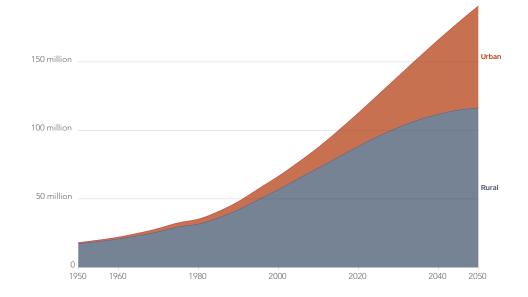


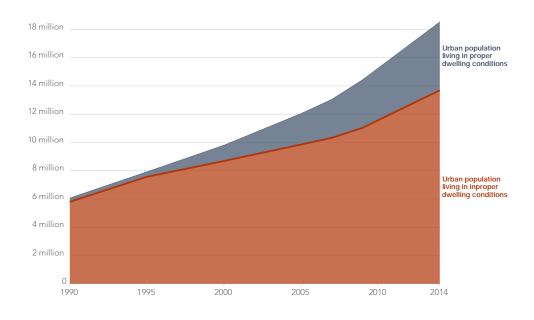
INFORMAL PARTS OF THE CITY

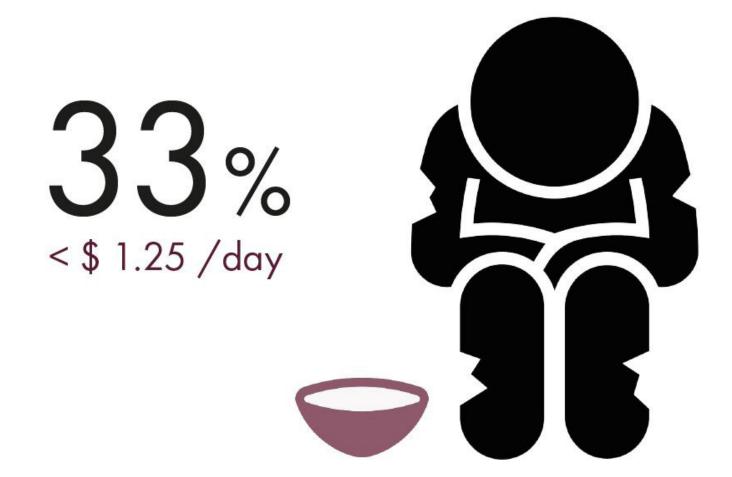


INFORMAL PARTS OF THE CITY









GOVERNMENT REACTIONS

<u>Attitudes</u>

Laissez-faire

Demolition

Regularisation

Building programmes

Sites & Services (1970's)

Cities without slums - Integrated Housing Development Programme (2005-)

IHDP - CONDOMINIUM

<u>Ambition (2006-2010)</u>

400.000 dwellings



IHDP - CONDOMINIUM

<u>Ambition (2006-2010)</u>

400.000 dwellings

Reality

80.245 dwellings



IHDP - CONDOMINIUM

Ambition (2006-2010)

400.000 dwellings

Reality

80.245 dwellings

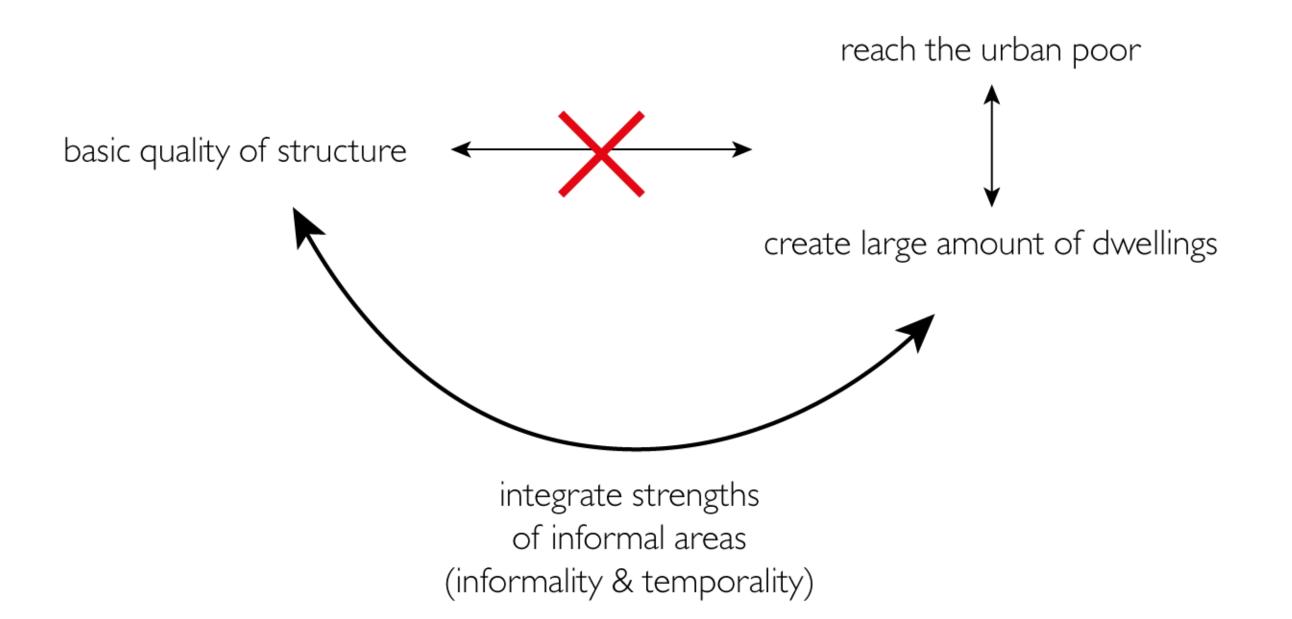
45% perceived as 'not affordable'

58% affected ability to earn income 87% unable to sustain business at new location

basic quality of structure

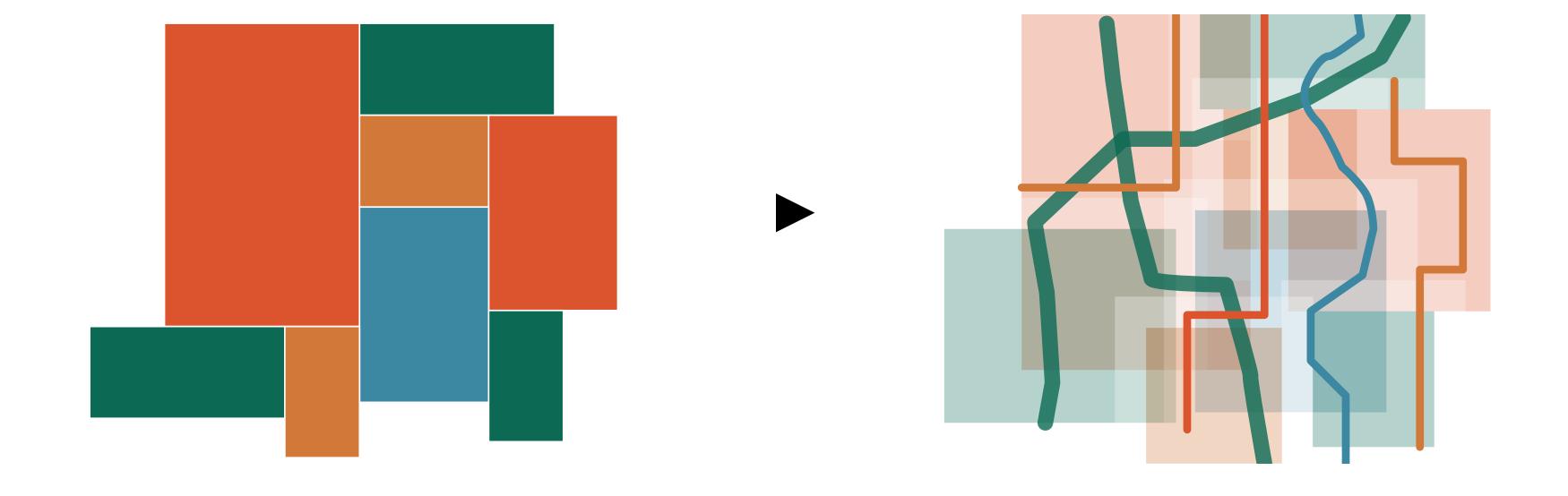
reach the urban poor

create large amount of dwellings



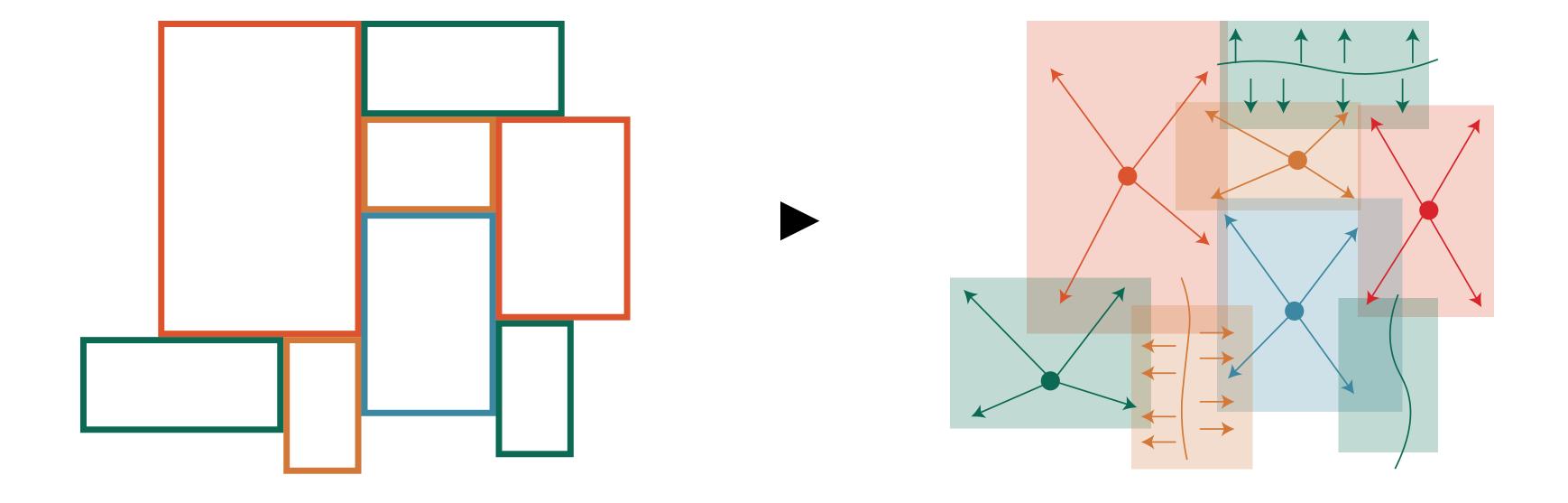
STRATEGY

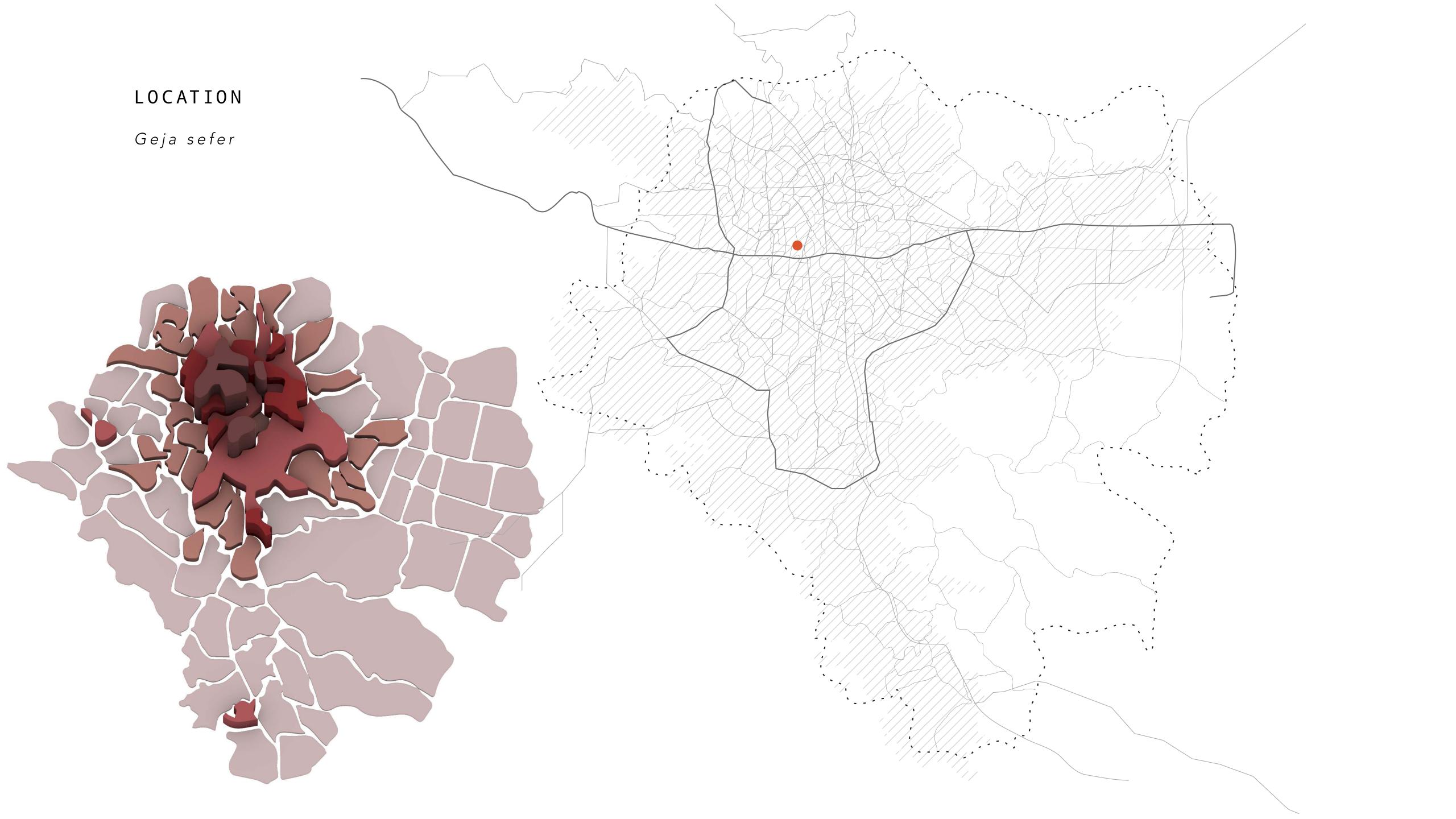
from zoning to layering

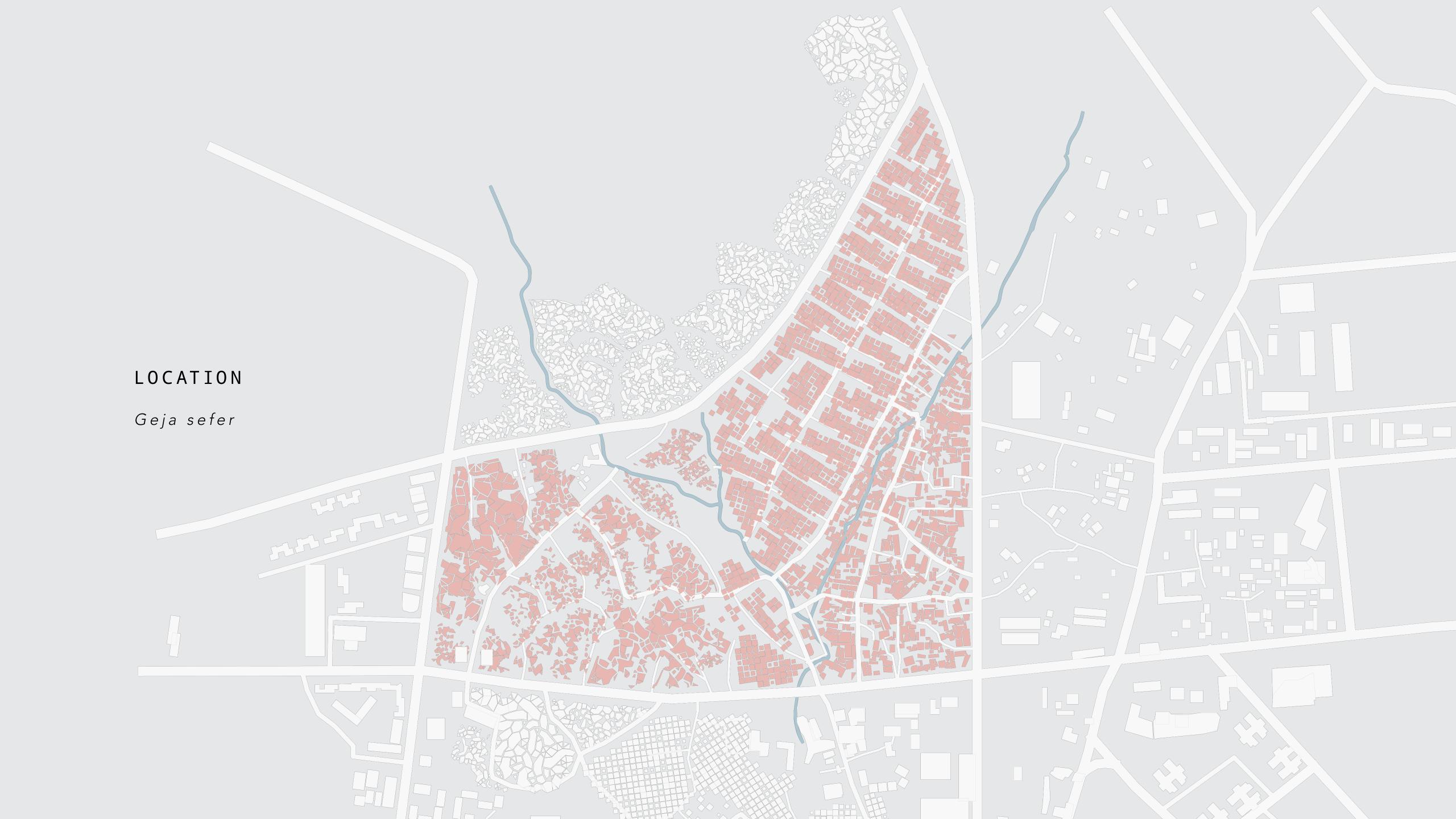


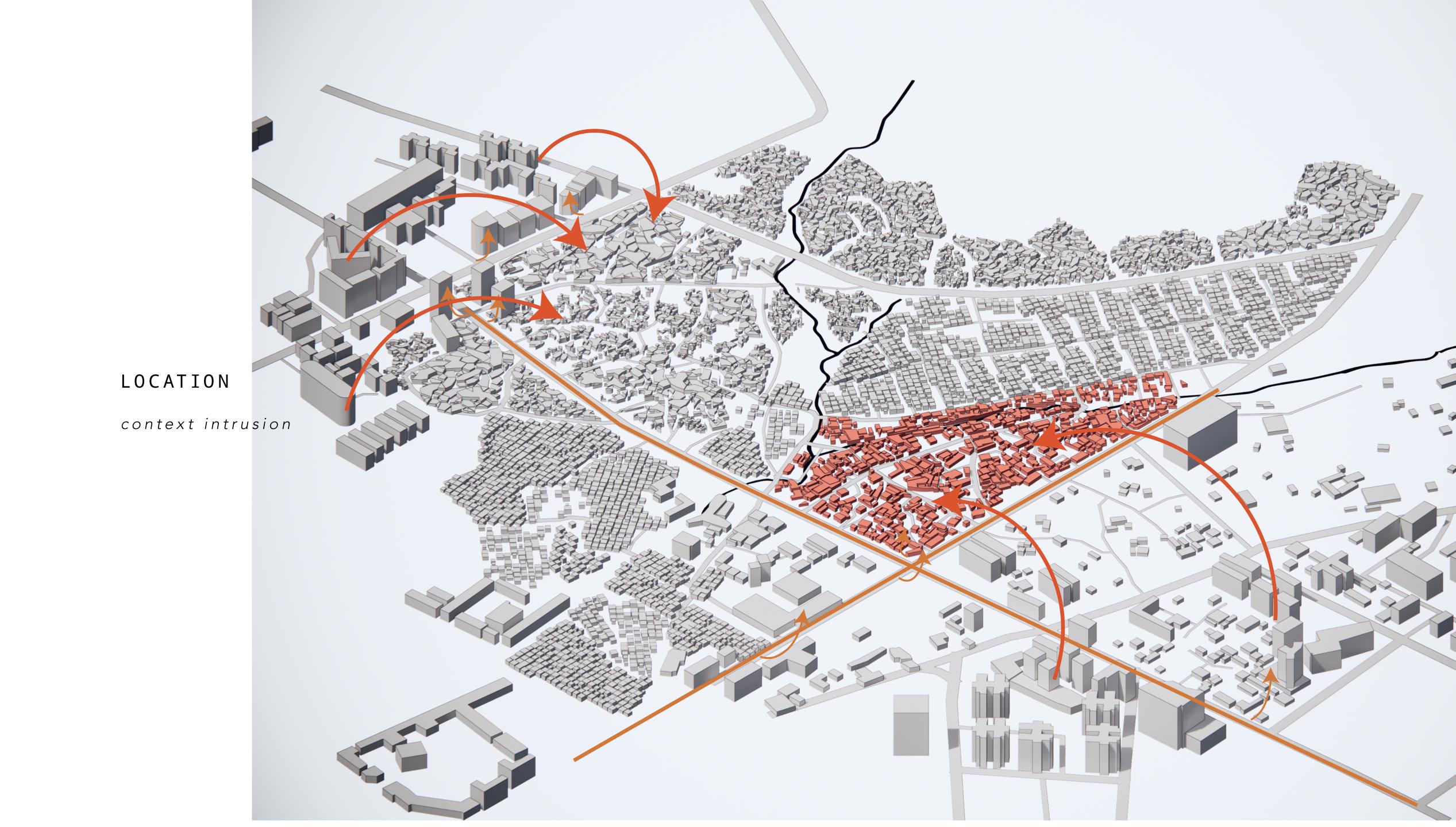
STRATEGY

from boundary to powerpoint











Geja sefer

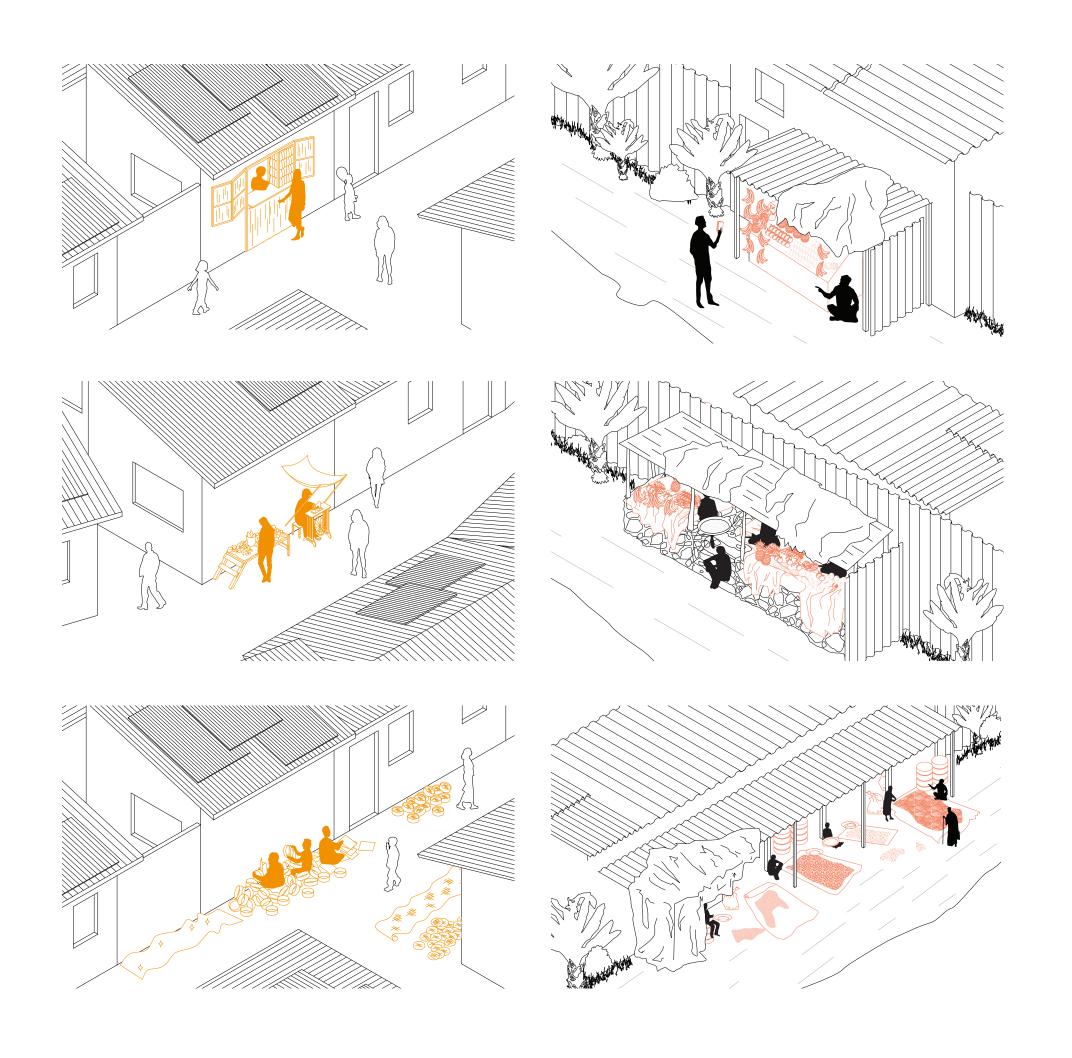


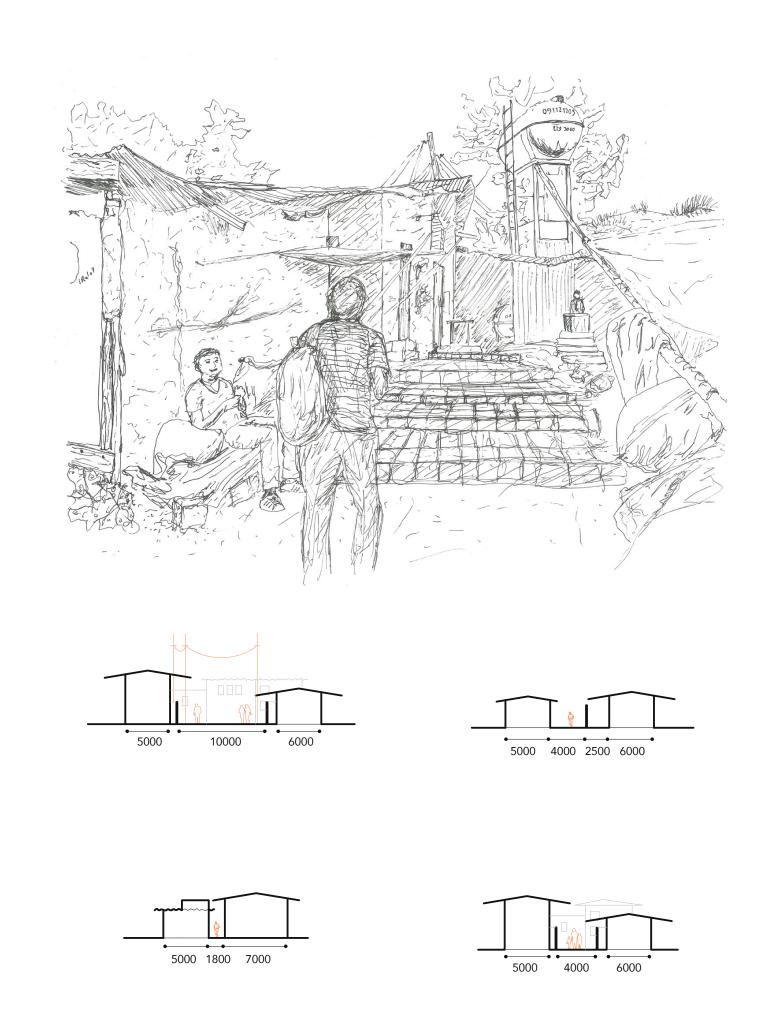






Sefer patterns - streets





Addis Ababa as a Palimpsest

Sefer patterns - courts flexibility in use

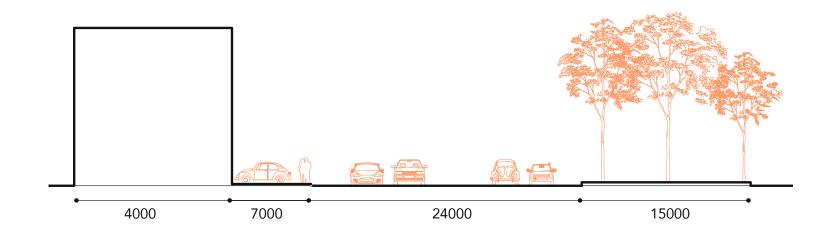
- household activities
- playing fields
- meeting spaces

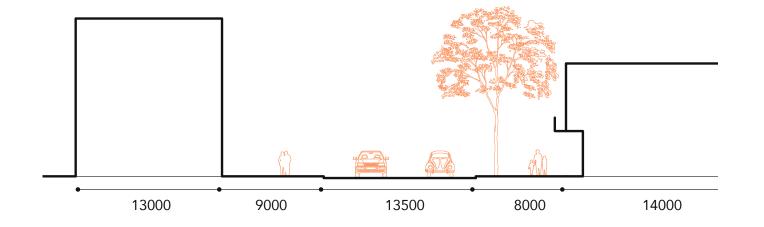


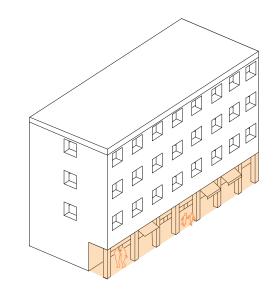
Addis Ababa as a Palimpsest

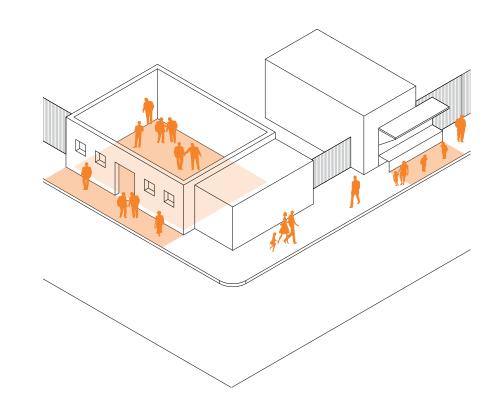
Sefer patterns - main road

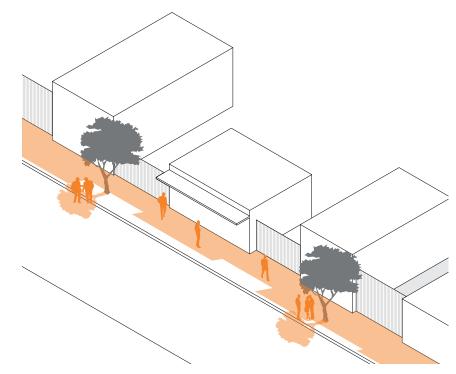










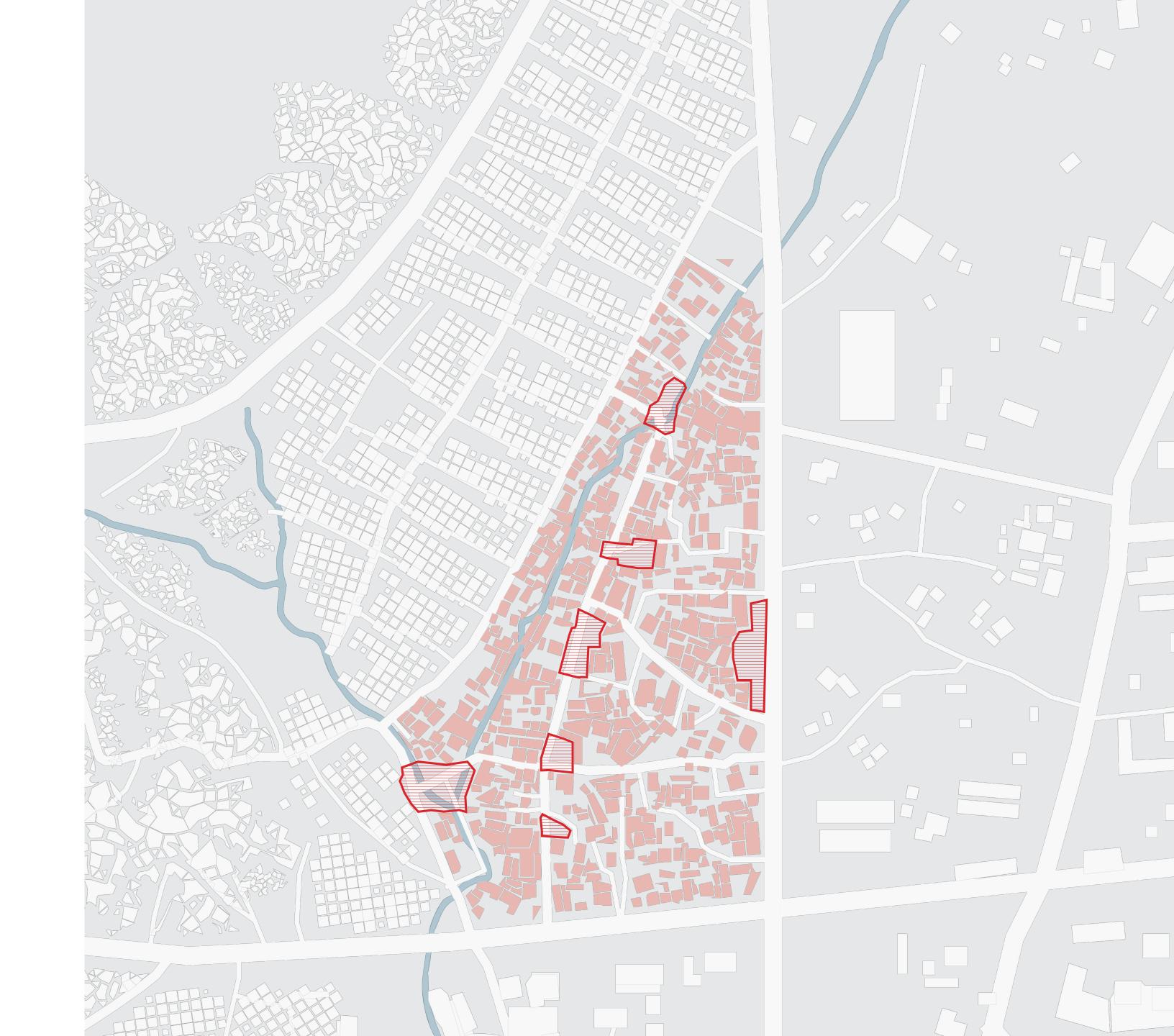


Addis Ababa as a Palimpsest

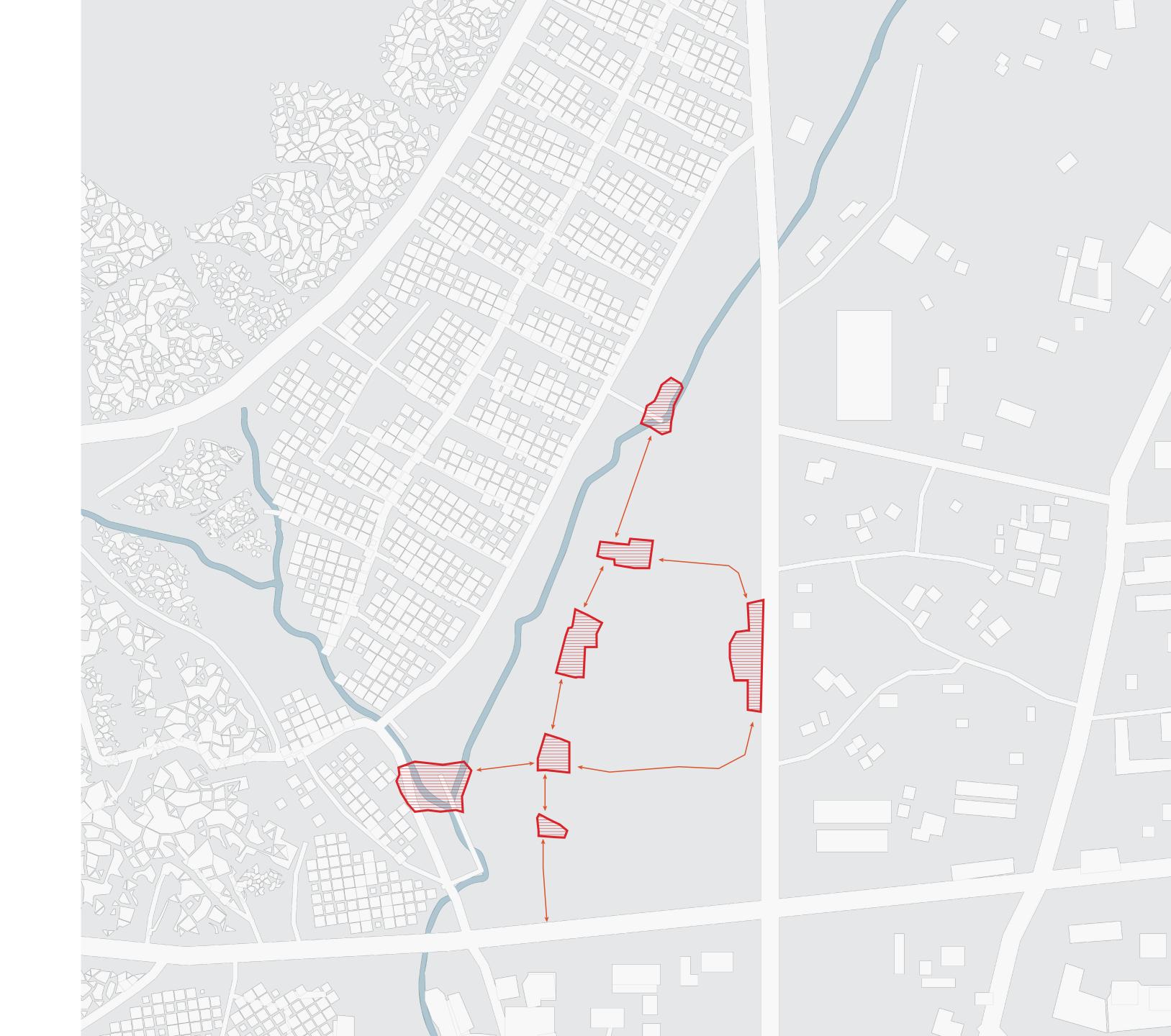
Geja sefer analysis



Geja sefer analysis



Geja sefer analysis

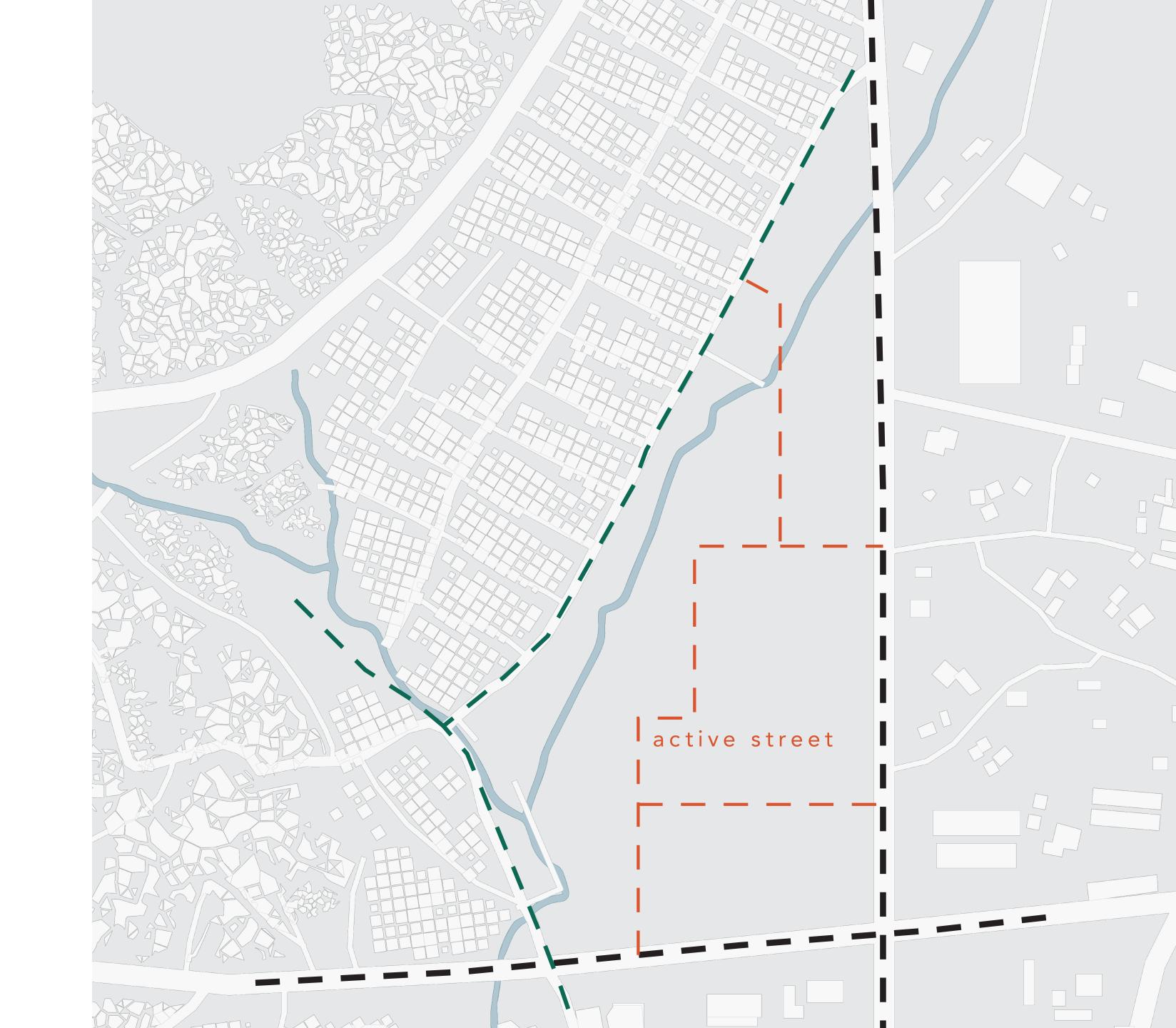


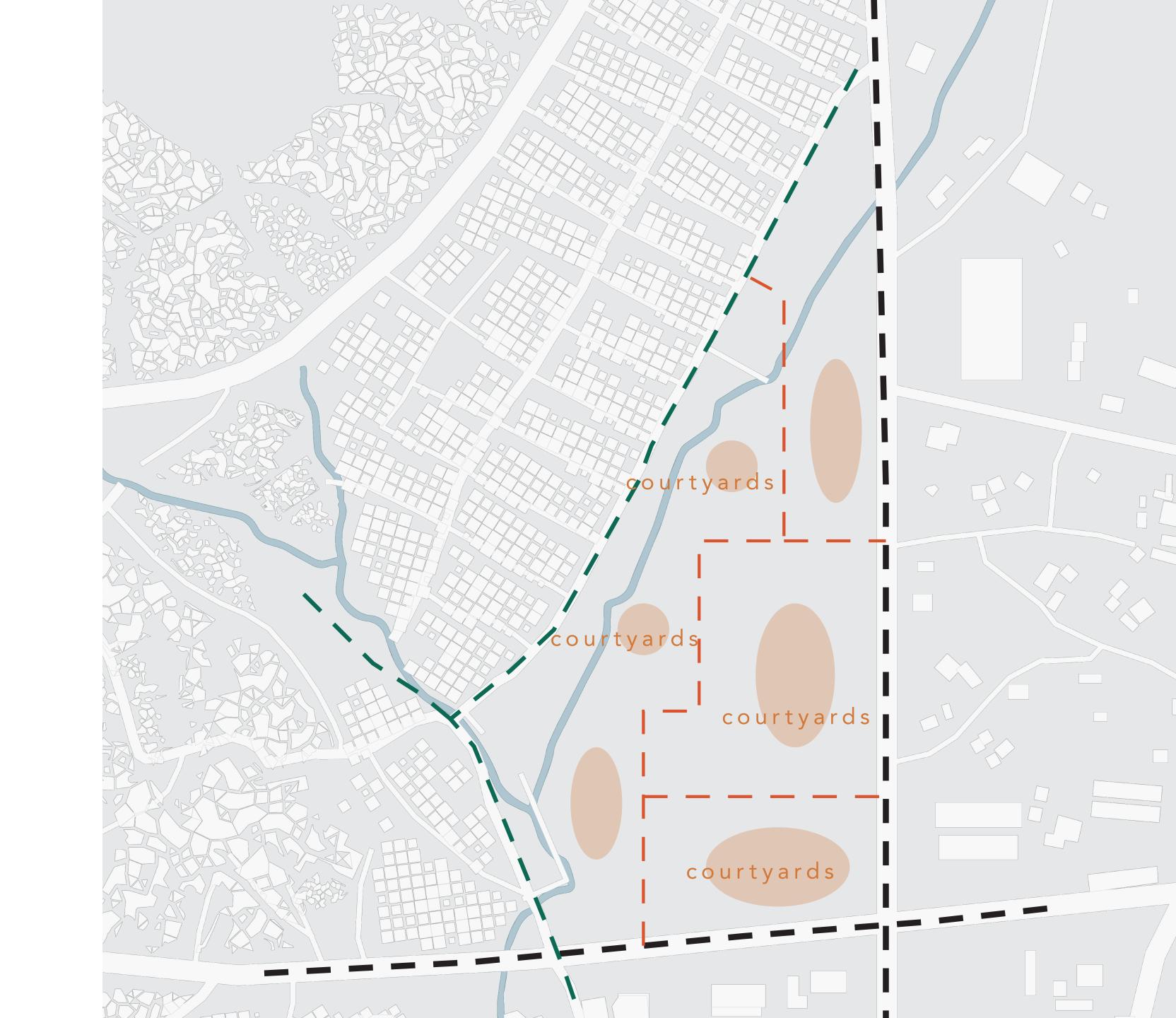
commercial street

LOCATION

green zone

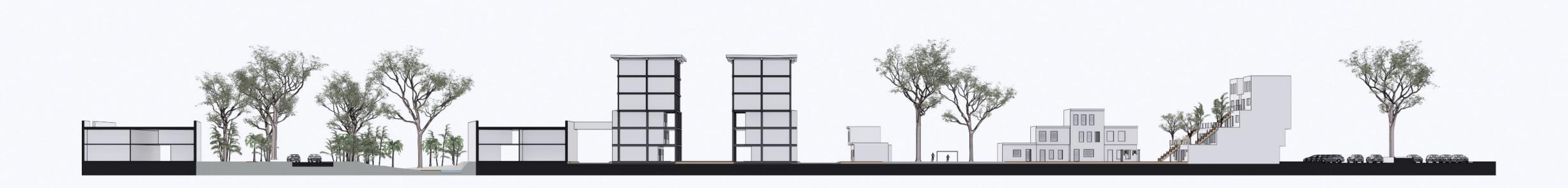
LOCATION





SECTION - ELEMENTS

every element is defined by a different way of interpreting temporality buildings form the boundary of each element, and are included as such every building has its own method, its own system



green zone

- recreational space for the whole neighbourhood
- spacious: horizontal opennes
- no dwellings
- infrastructure as single lines elements: cars, pedestrians, cycles

active street - informal

- street is economical hart of neighbourhood
- dense: open vertical
- plenty of opportunities for temporal activities
- informal housing along the street
- vertical frame is fixed, dwellings are temporal

inner court

- building plots are fixed: can extend vertically
- buildings are closely related to ground floor
- open spaces accommodate household activities
- important infrastructural connections for whole neighbourhood

commercial street

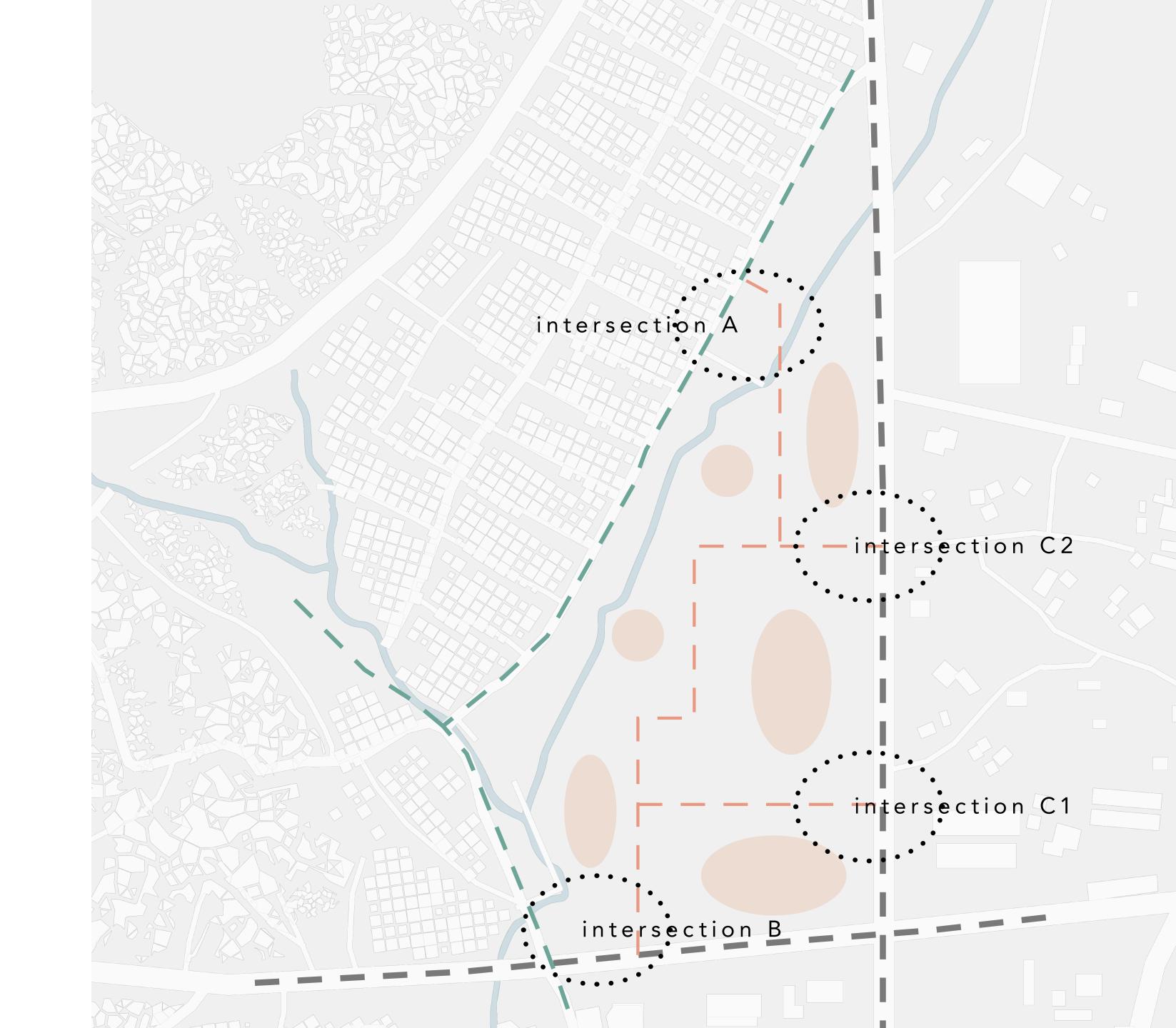
- buildings are fixed
- roof terraces accommodate personal space
- space for cars
- space for pedestrains at the street
- direct boundary between street and building
- boundary is differentiated to accommodate space for temporary activities related to the commercial

2

3

4

1



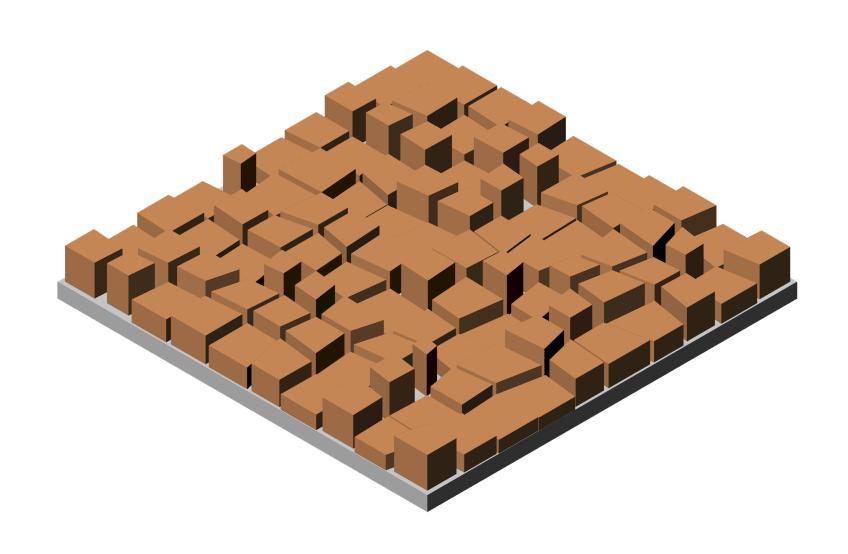
BUILDING STRATEGY

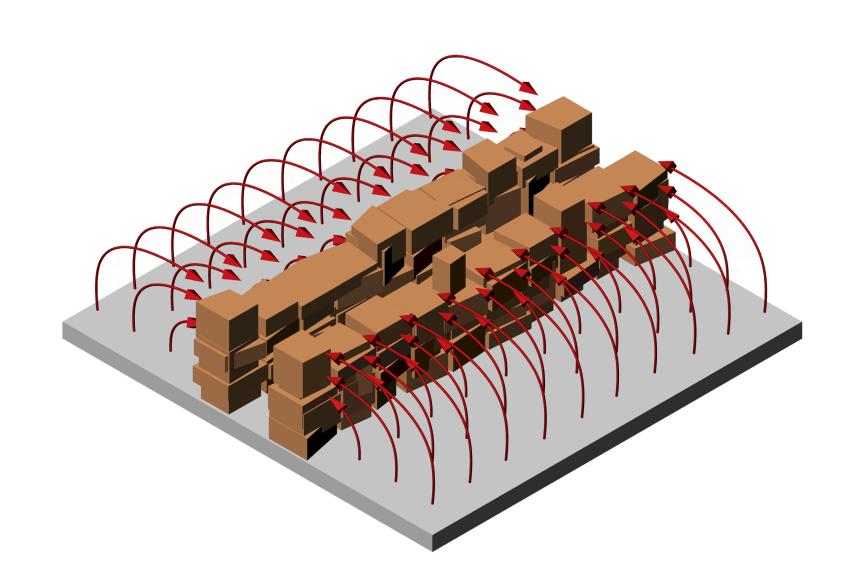
Deeveloping project

- active street & towers
- 2. courtyard housing
- 3. commercial street









3 ACTIVE STREET: PRINCIPLE

THEORY - WEB

Candilis, Josic, Woods

the web is an urban planning instrument that allows for the structuring of an urban environment. A matter of weaving a fabric from threads or yarn in which different programmatic elements can evolve.

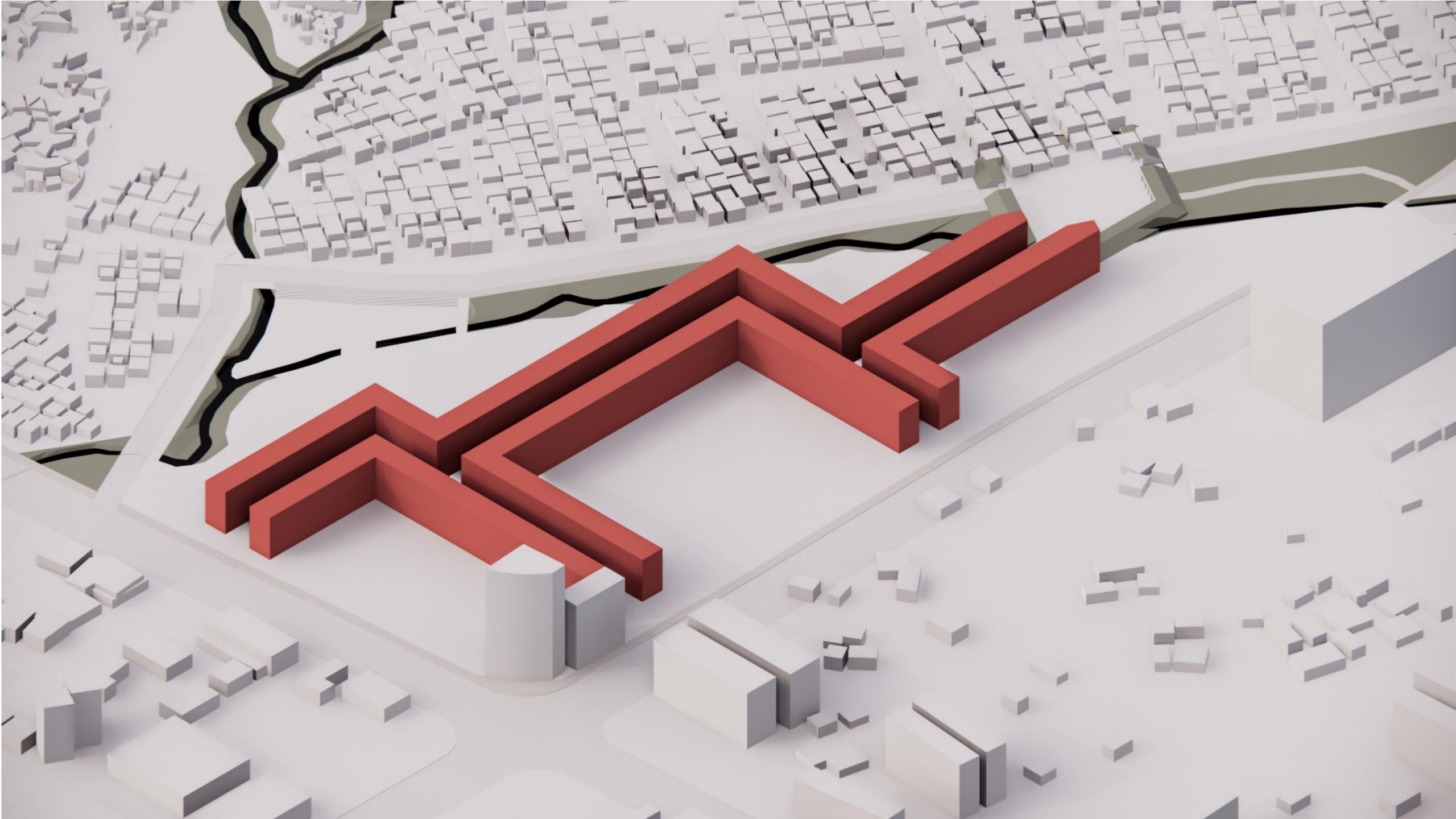
Avermaete, 2005; from Another Modern: p.318

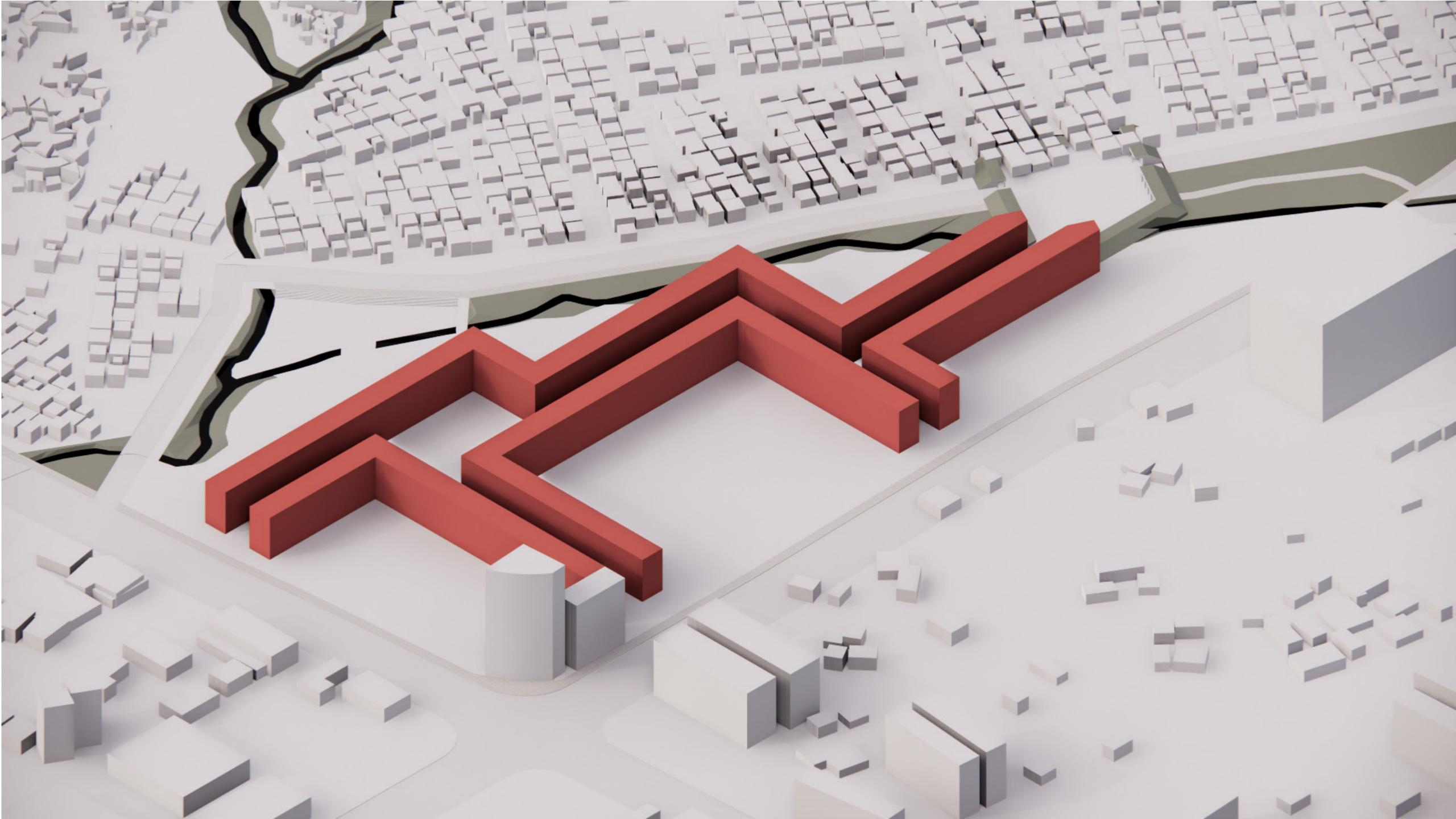
THEORY - WEB

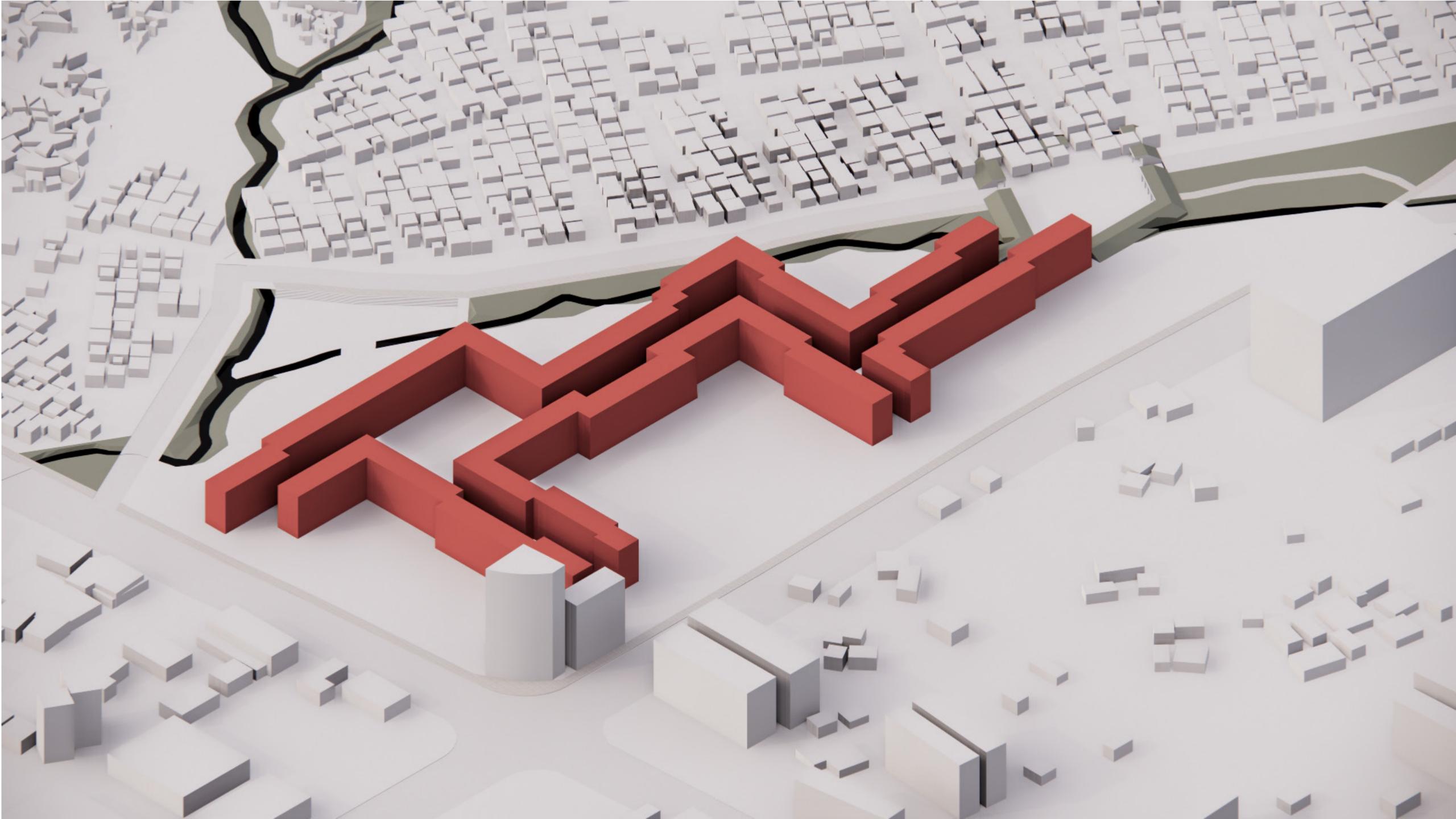
Candilis, Josic, Woods

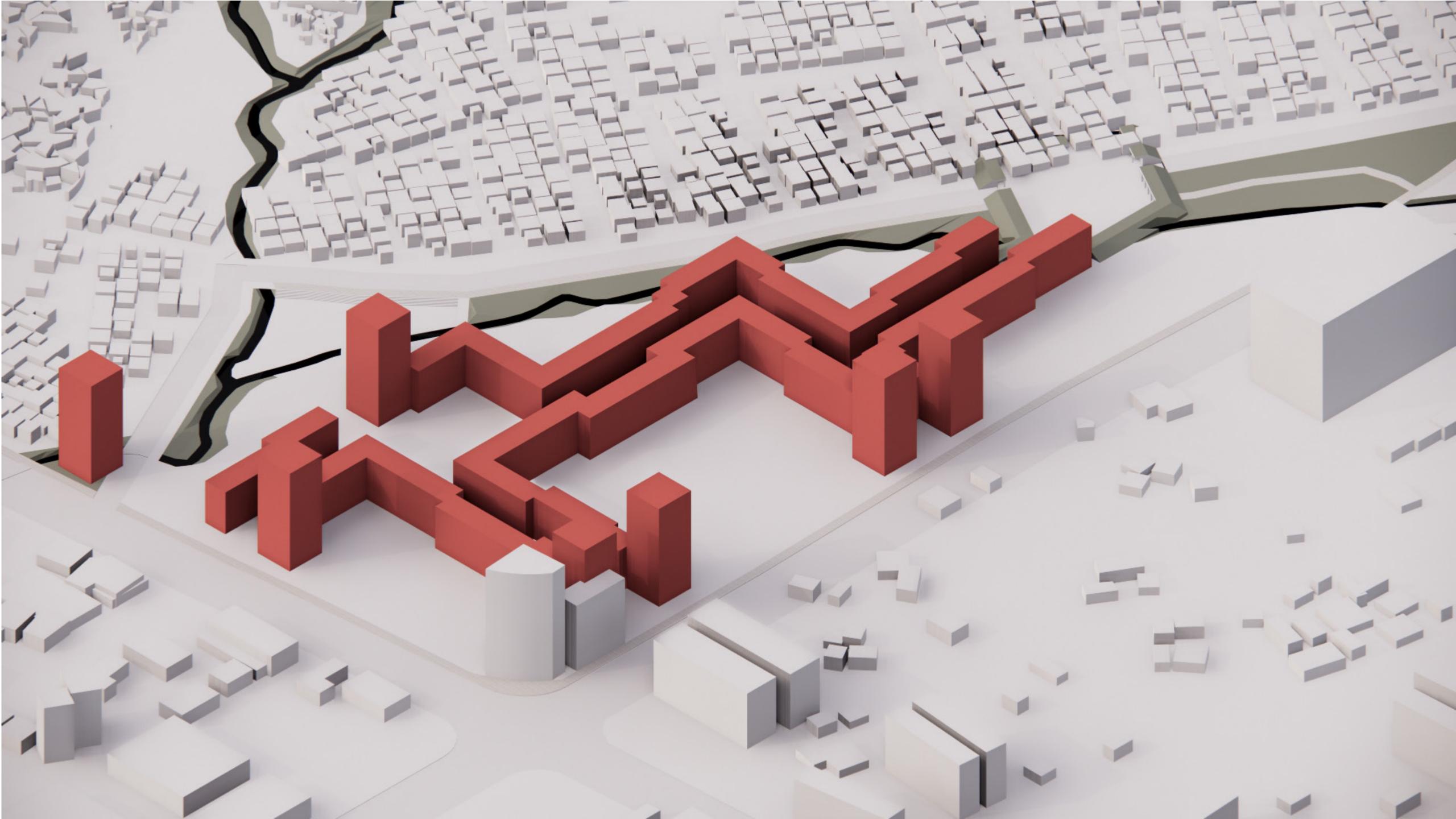
THEORY - WEB

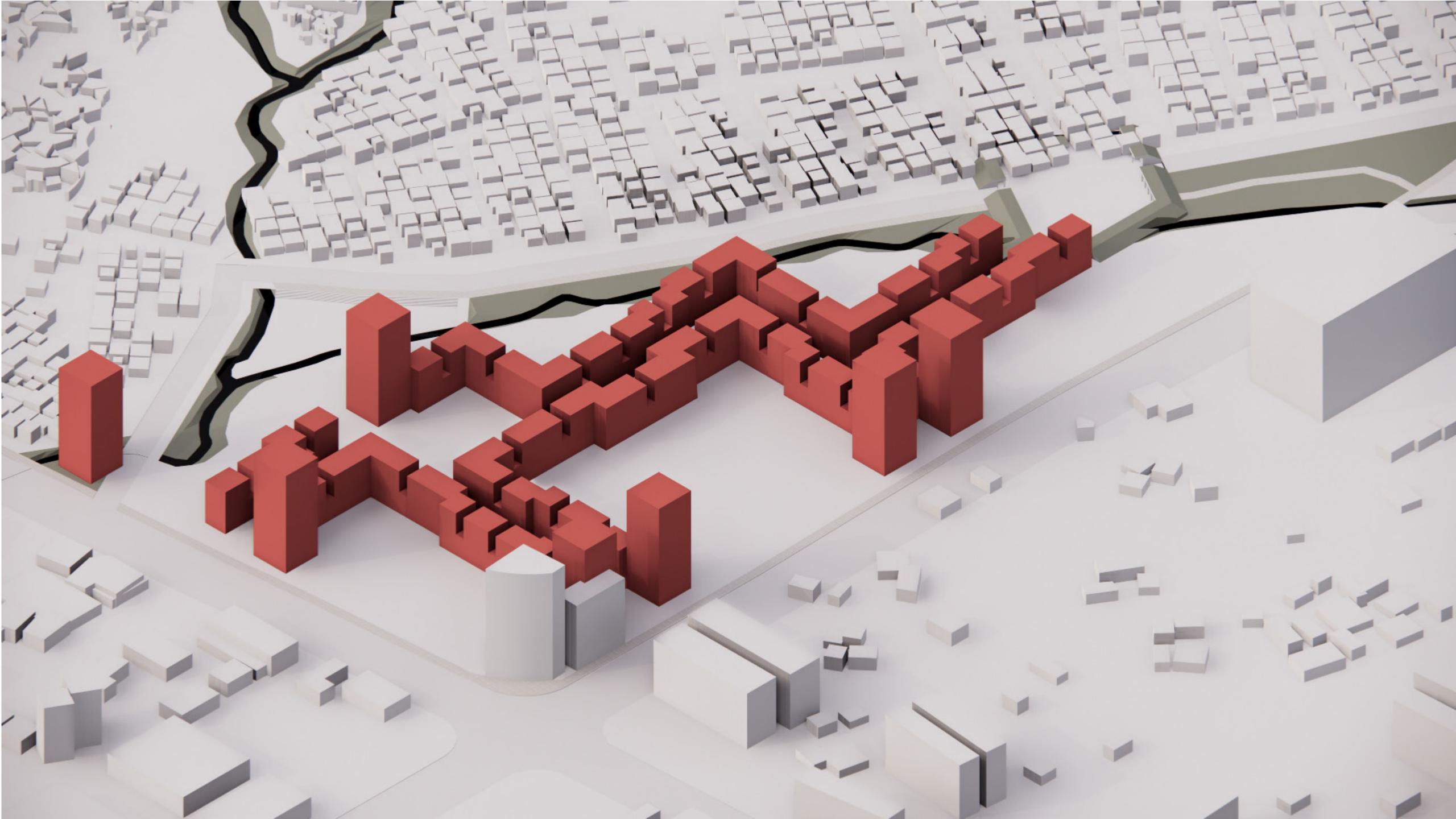
Candilis, Josic, Woods

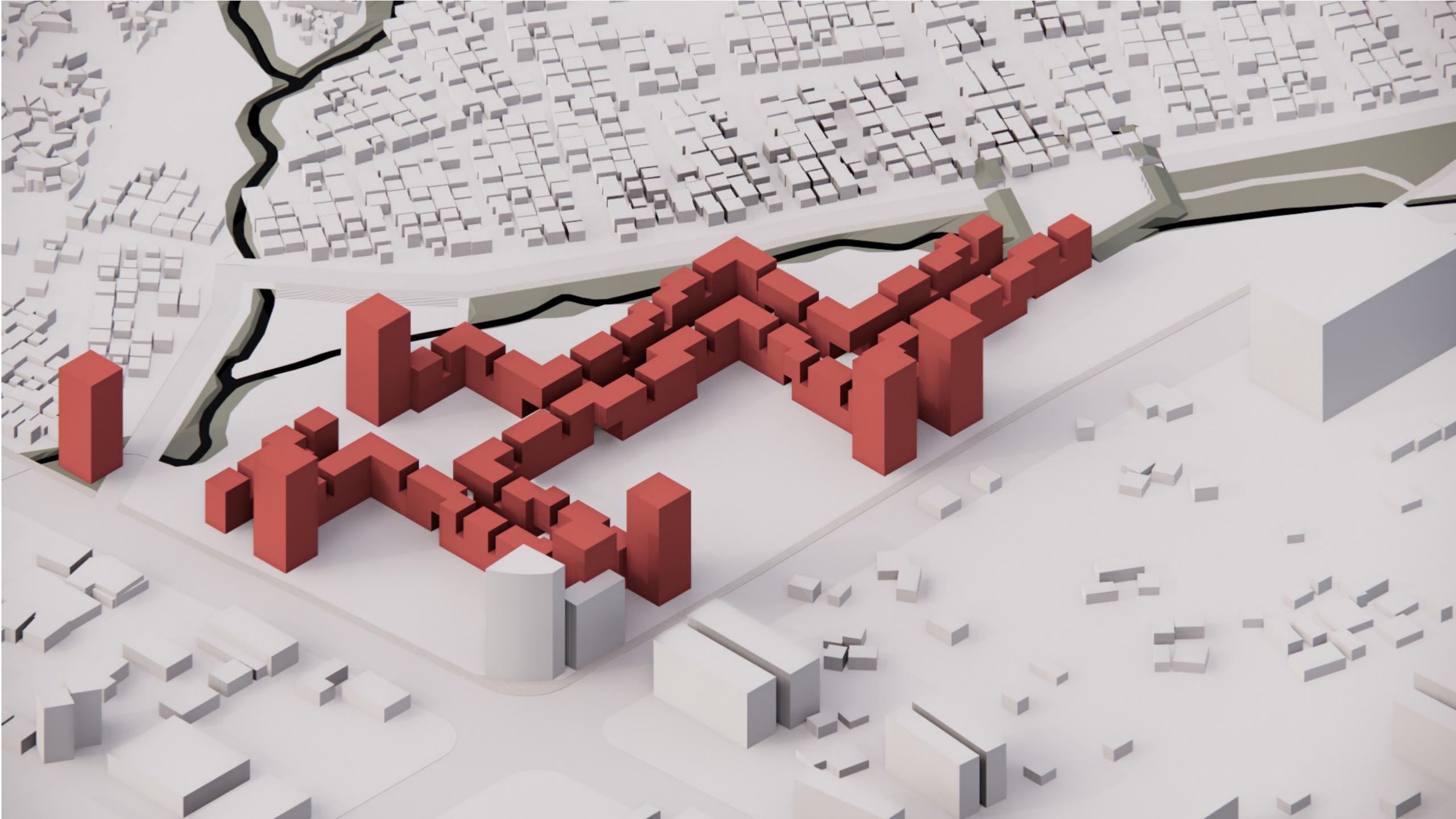


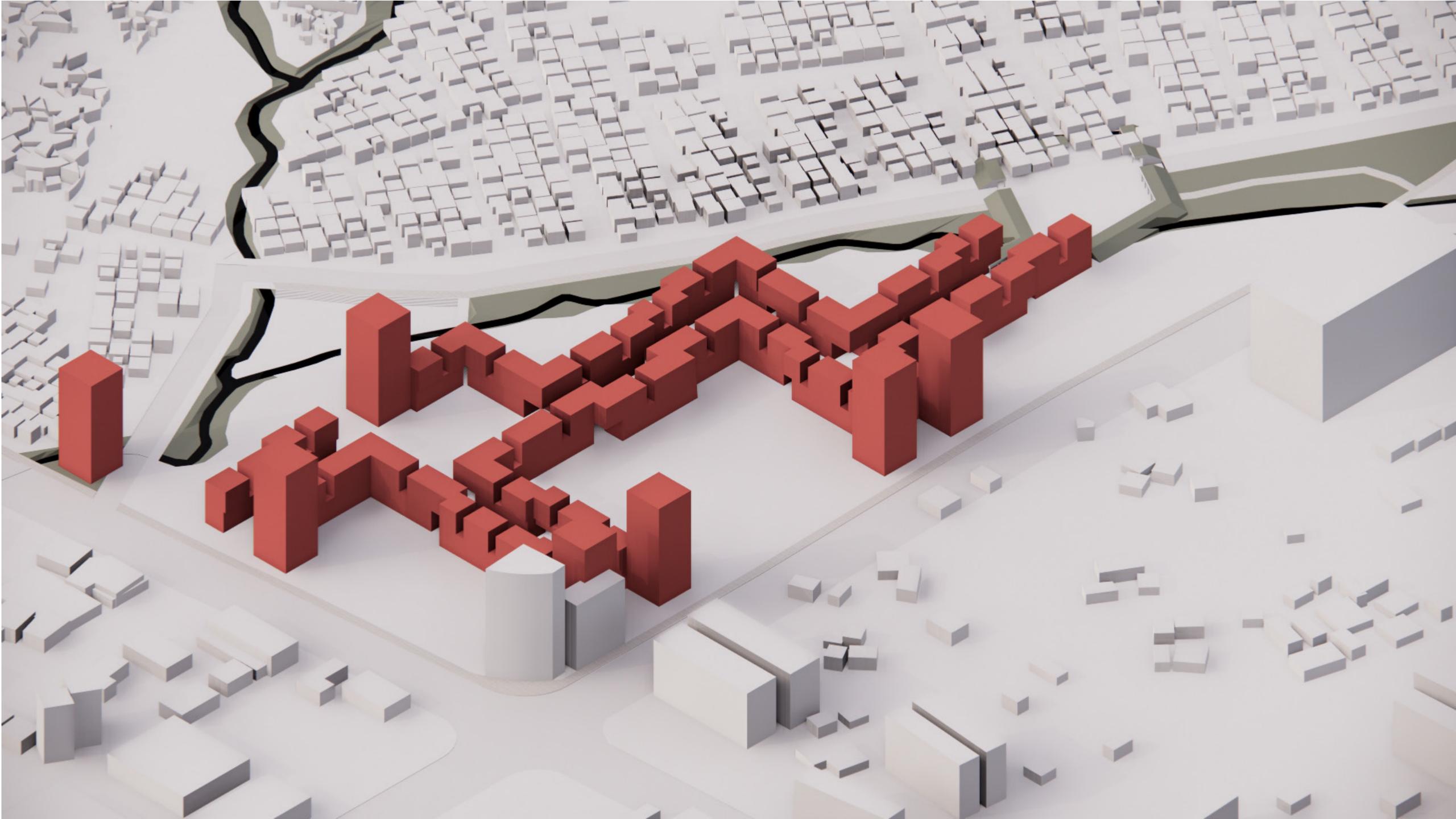












ORGANISATION - ACTORS



Government

Addis Ababa City Administration (AACA)

- -selecting new sites
- -allocating government resources

Addis Ababa Housing Development Project Office (AAHDPO) - subcity Lideta

-Design, construction, housing transfer and administration



Financier

Commercial Bank of Ethiopia (CBE)

-providing mortgage

Housing Investment Group

-property investment and renting out of dwellings



Building regulation group

Building supervisors

- -regulation new construction by dwellers
- -allocation and provision of building materials

Control group

- -built environment quality check
- -fire safety and acoustic insulation



Dwellers

Current dwellers (484 households)

-informal

Projected dwellers (1016 households)

-493 units on ground, first and second floor

-522 units on upper floors



Contractor

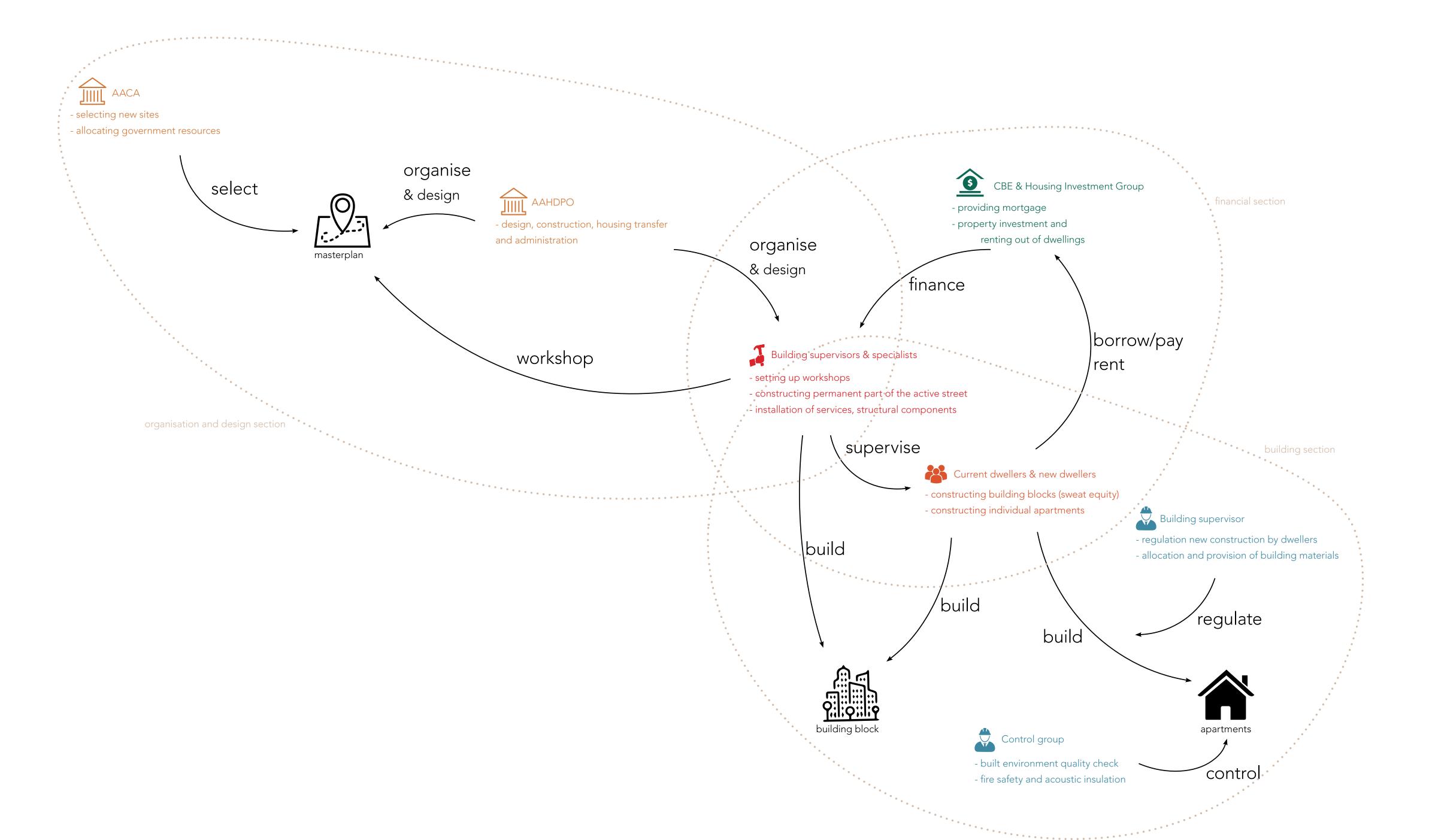
Building supervisors (i.e. Habtamu intern/K2N consultants)

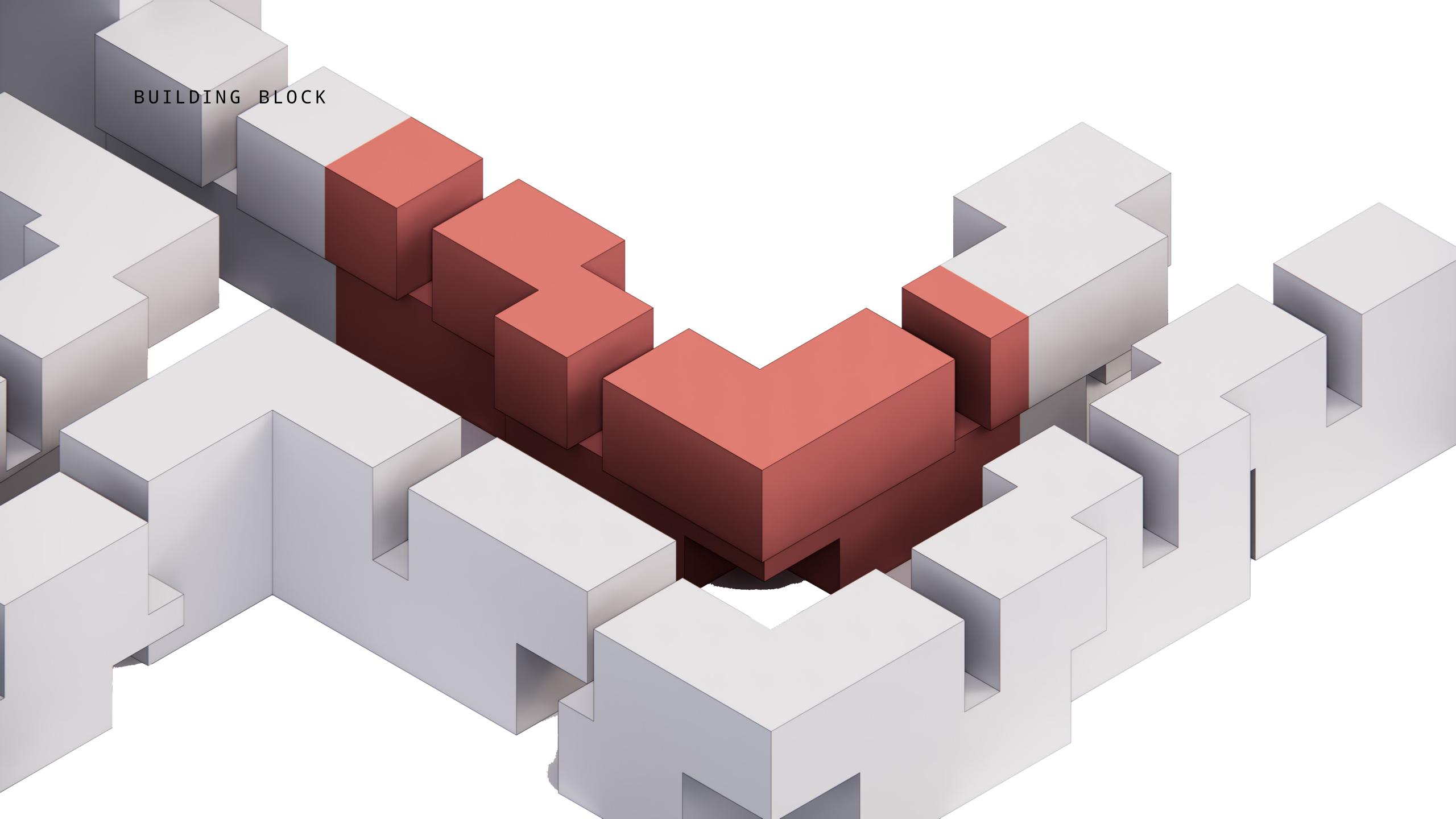
- -setting up building workshops
- -constructing permanent part of the active street

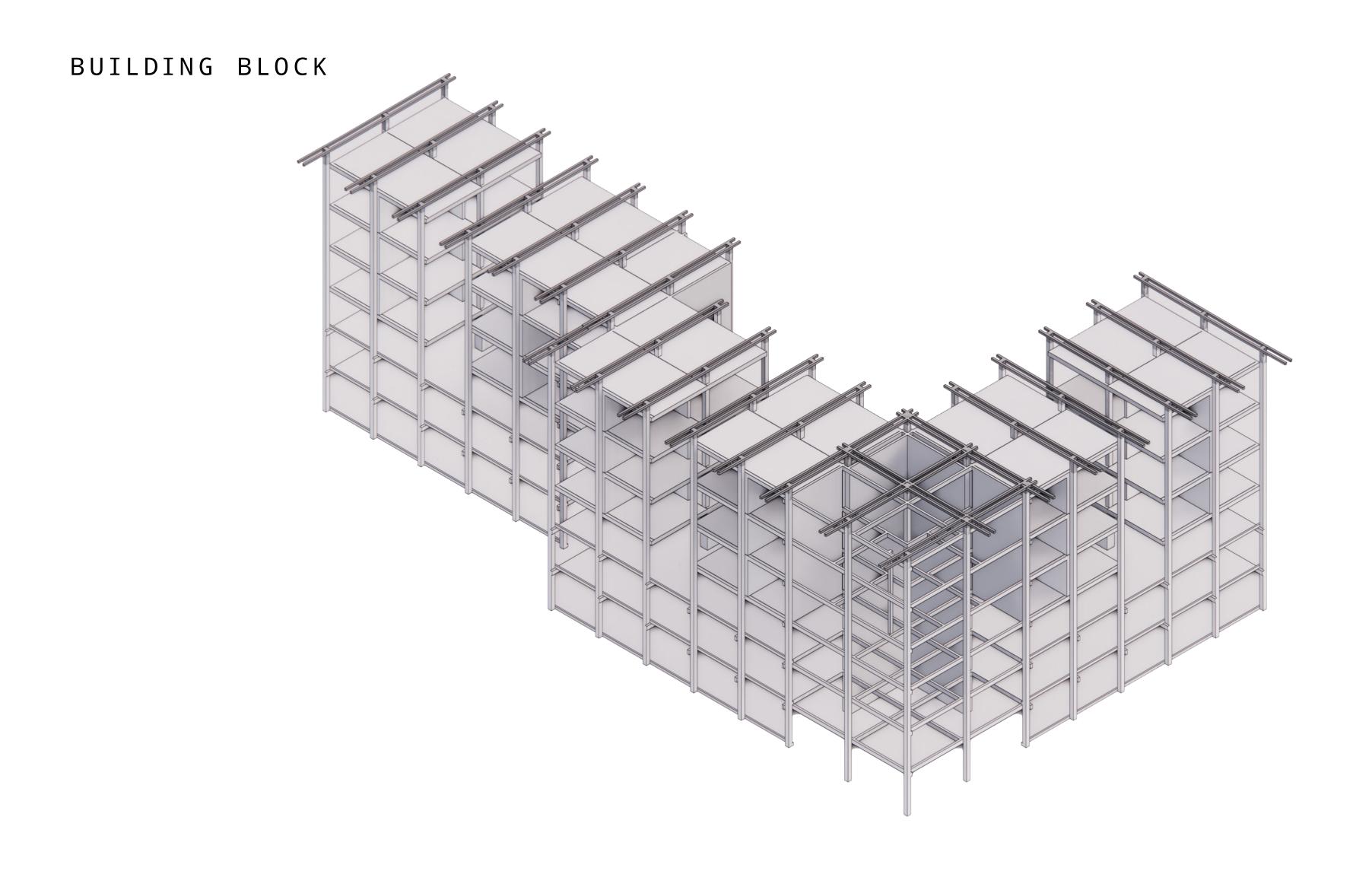
Specialists (i.e. PACE consultants-Ethiopia)

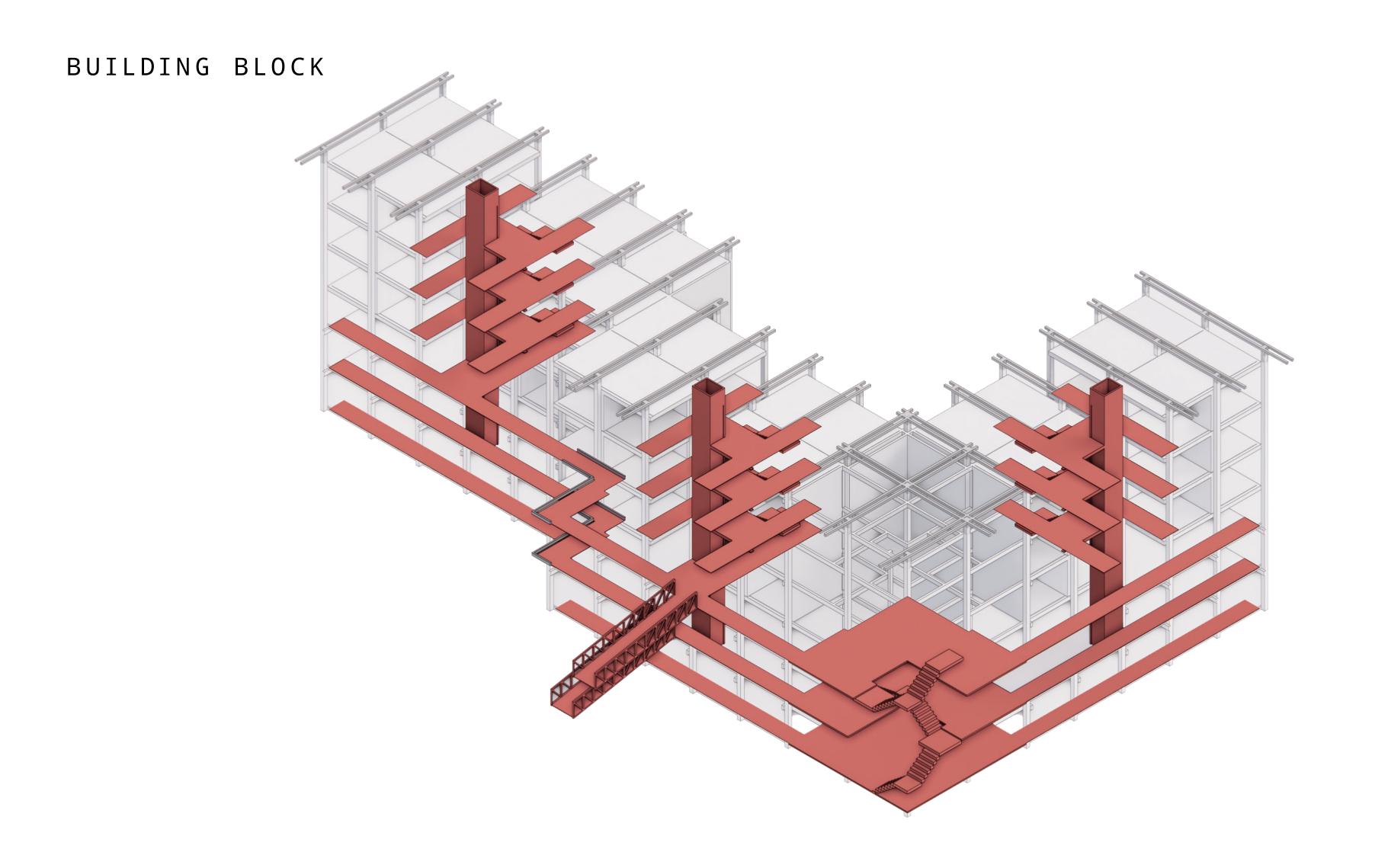
-installation of services, structural components

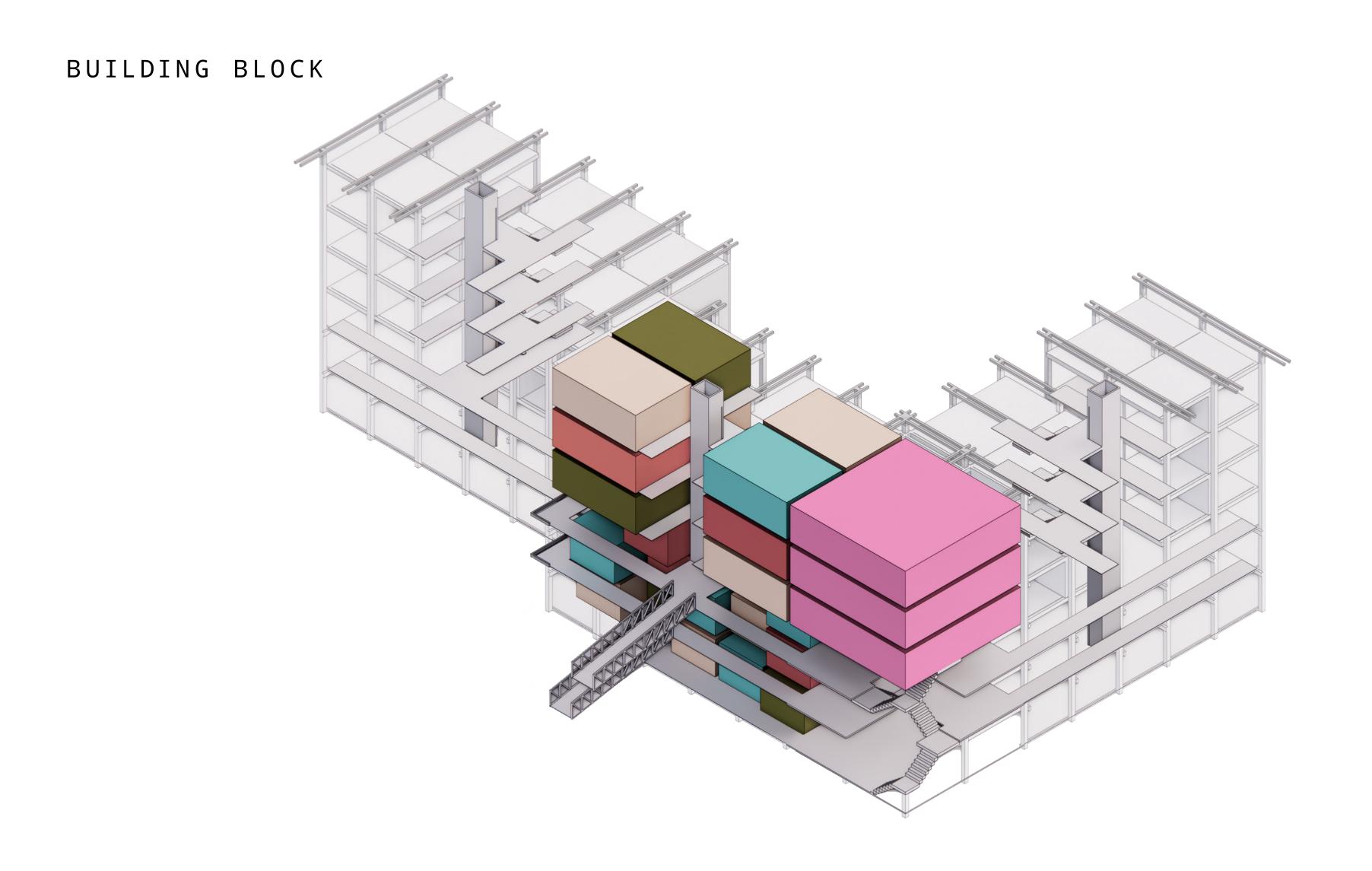


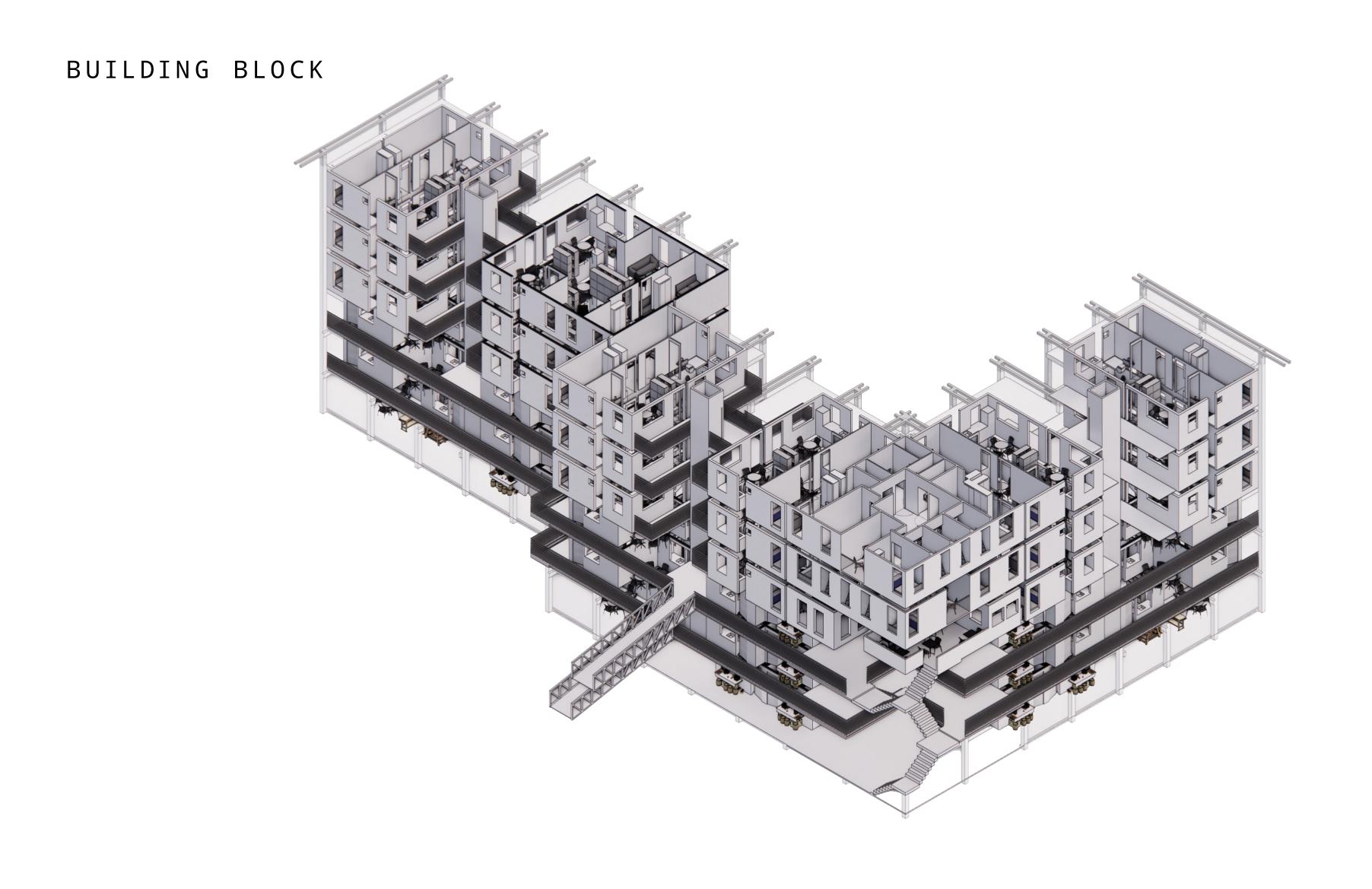


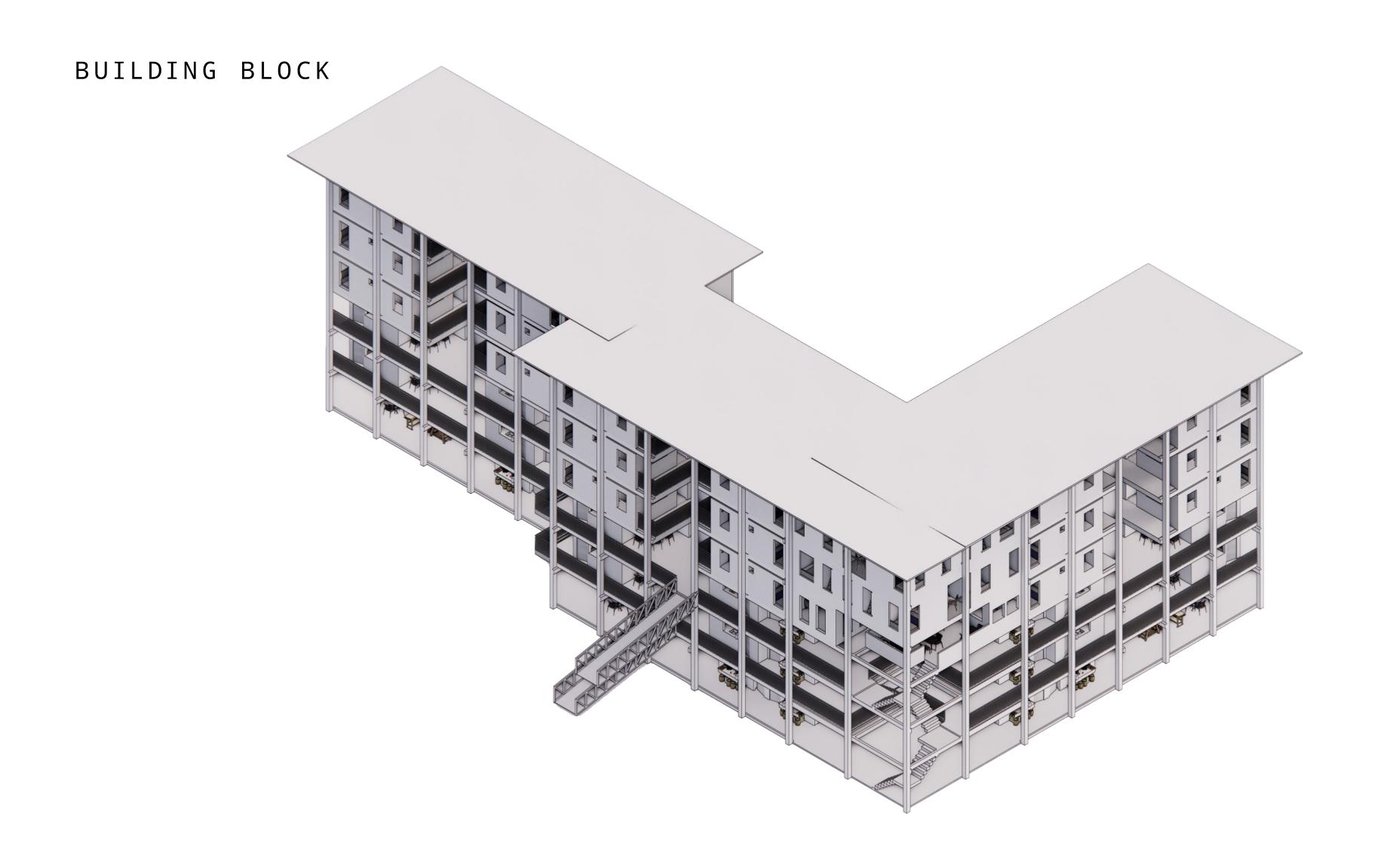




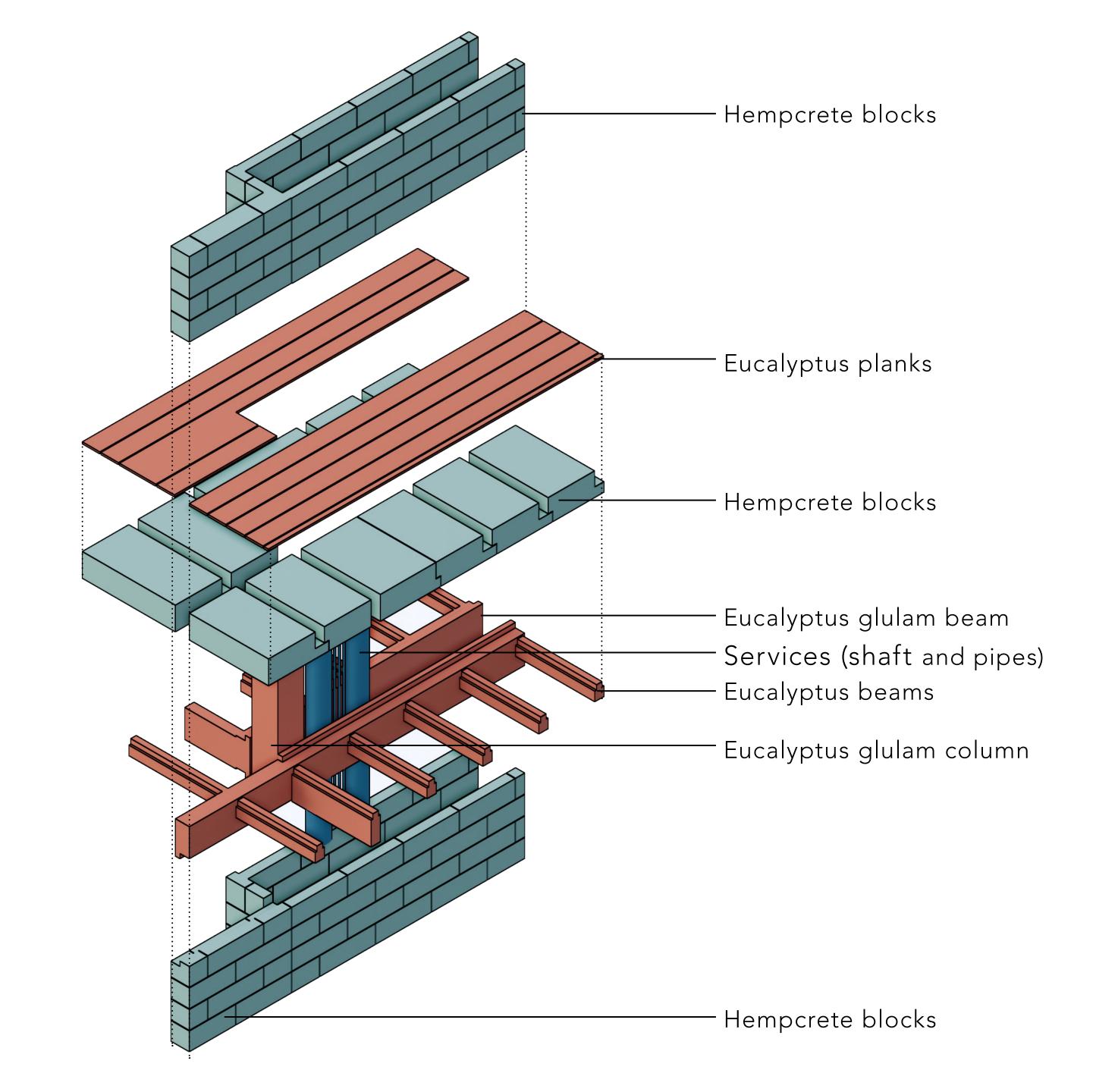


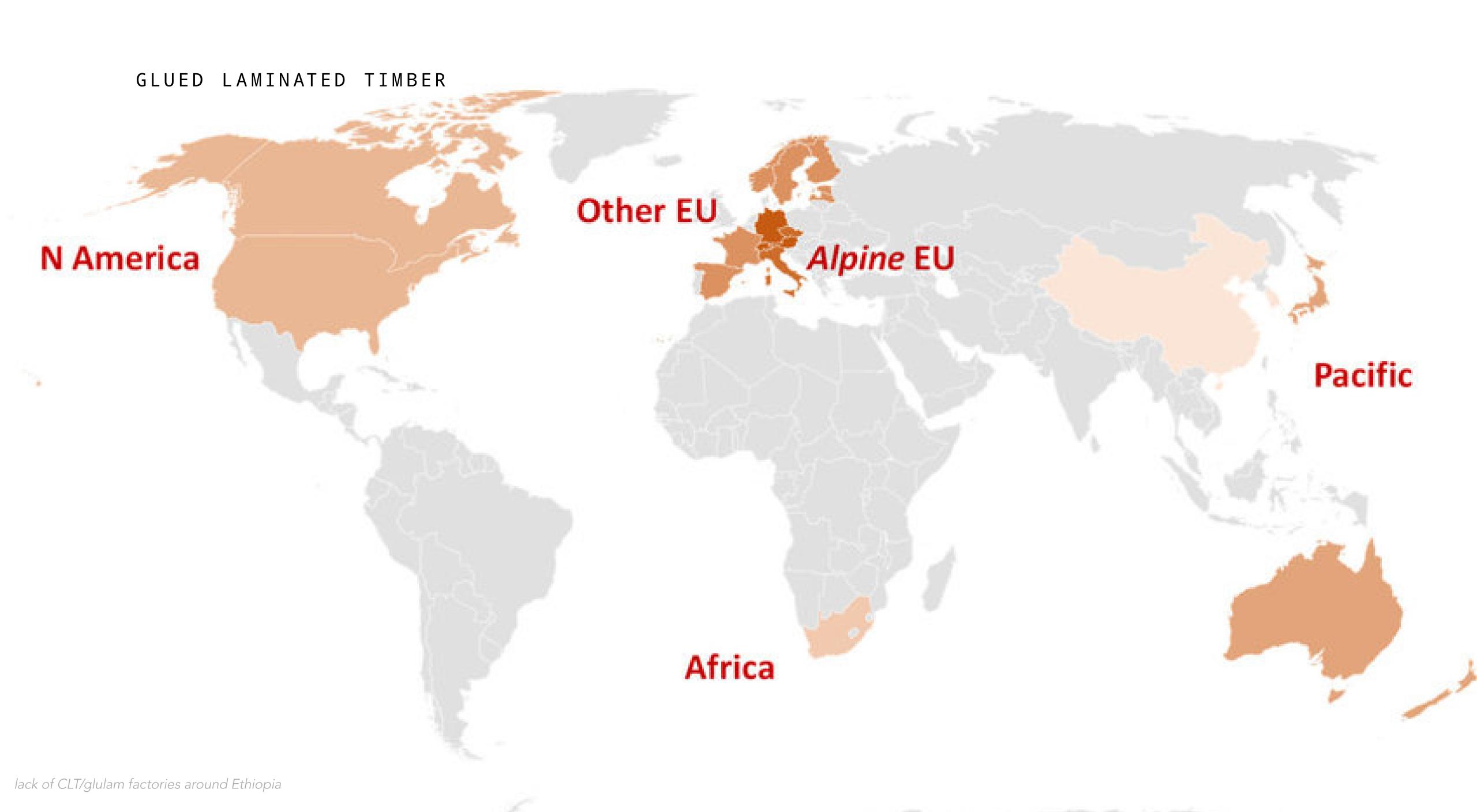






MAIN MATERIALS





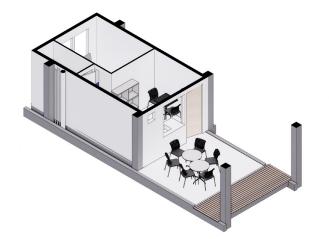
GLUED LAMINATED TIMBER

- 1. strength grading (visual)
- 2. wood drying
- 3. finger jointing
- 4. planing
- 5. glue spreading
- 6. clamping station
- 7. curing
- 8. cutting station
- finger jointing machine
- planing device
- glue and glue spreaders
- clamping jigs
- cutting machine/miter saw
- controlled space for drying
 and curing



DWELLING OPTIONS

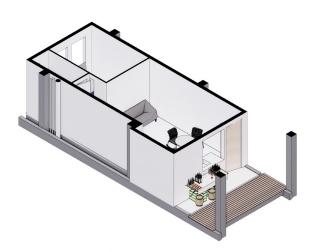
a catalogue



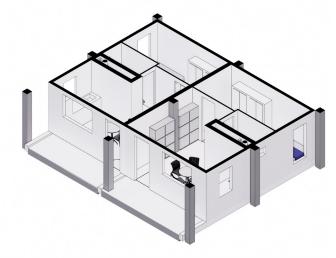
1-bedroom



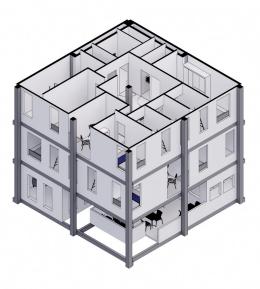
1-bedroom



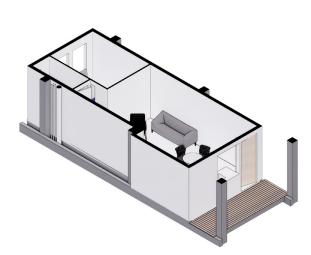
1-bedroom



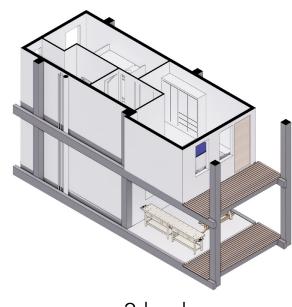
1-bedroom



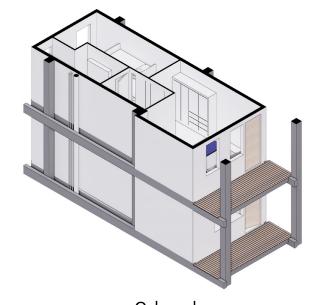
corner dwelling group housing



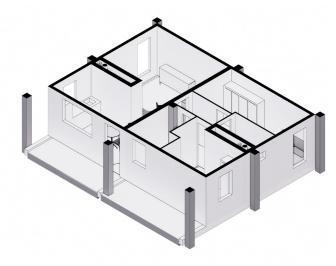
1-bedroom



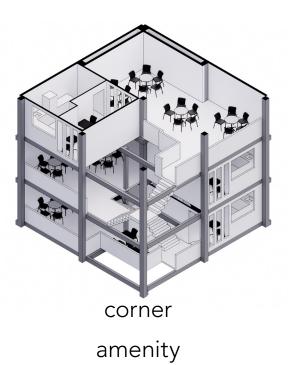
2-bedroom alternative access



2-bedroom alternative access



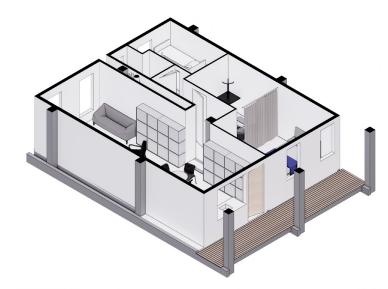
3-bedroom



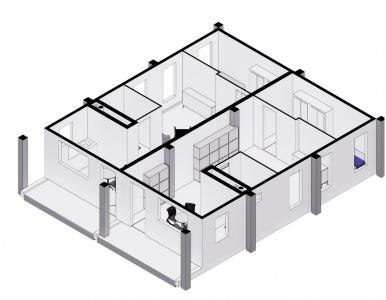
2-bedroom



2-bedroom

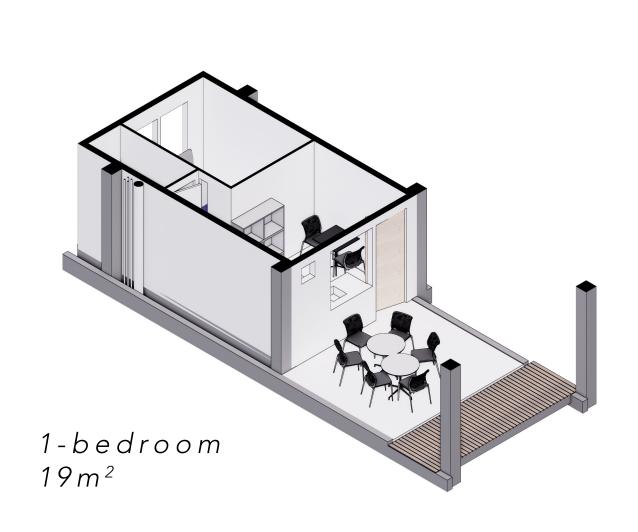


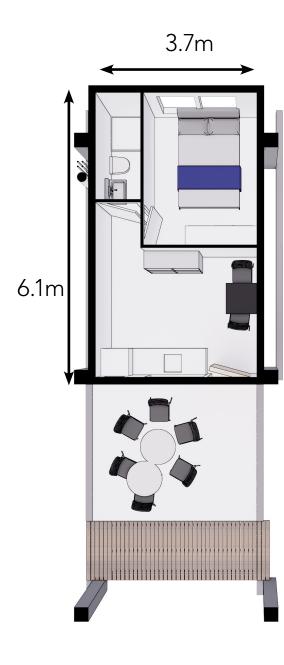
2-bedroom



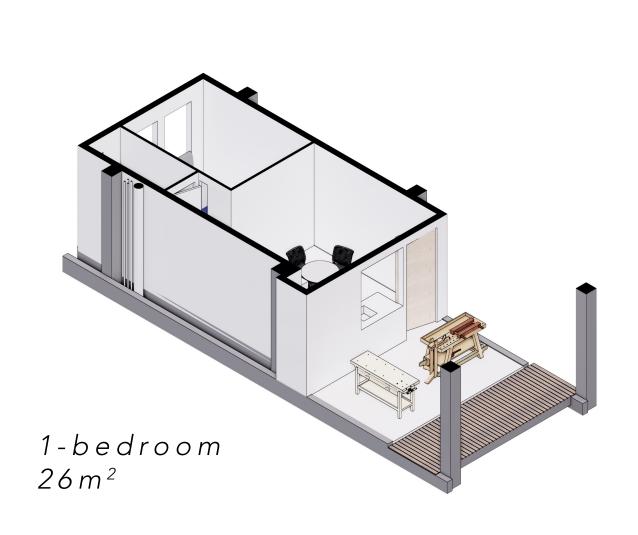
1-bedroom

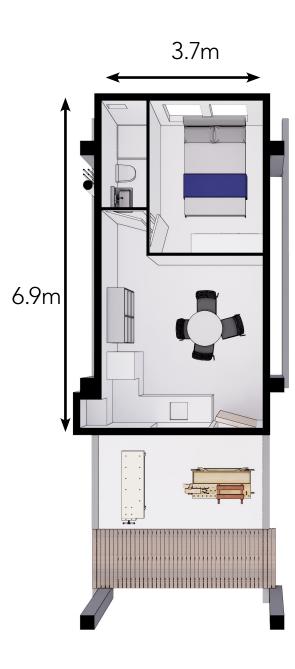
LOWER FLOORS (0-2)

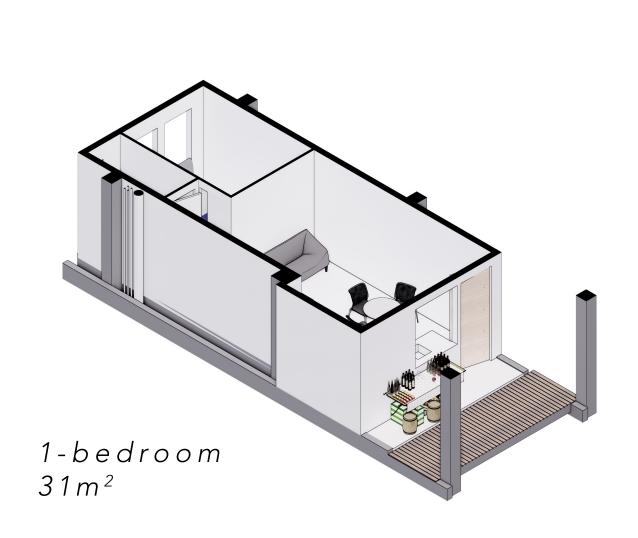


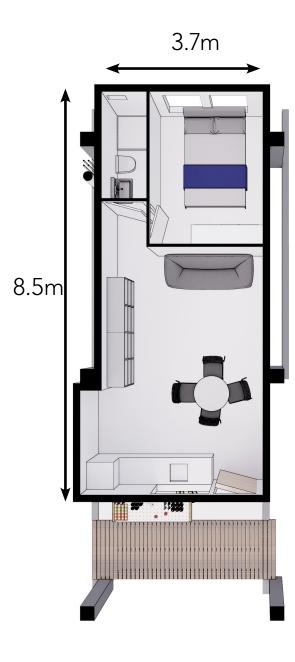


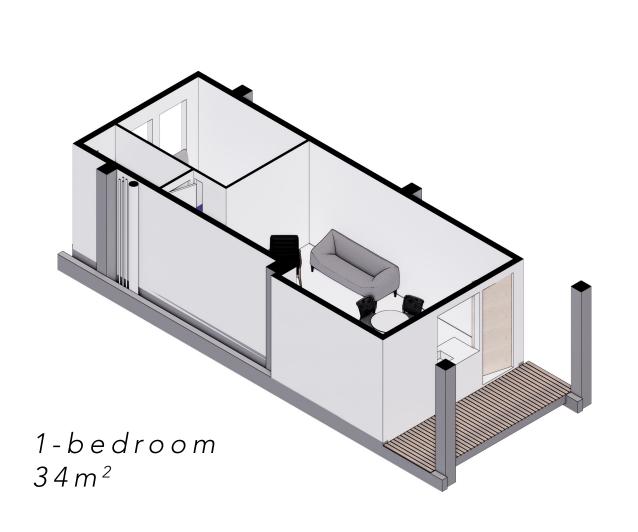
LOWER FLOORS (0-2)

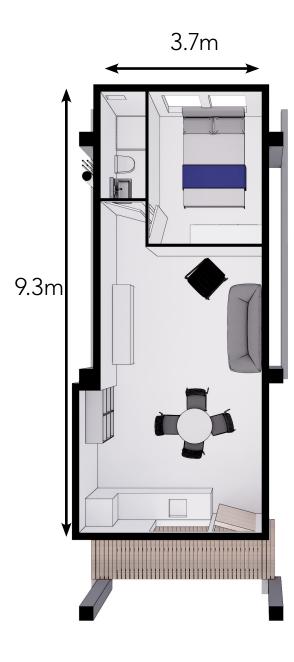


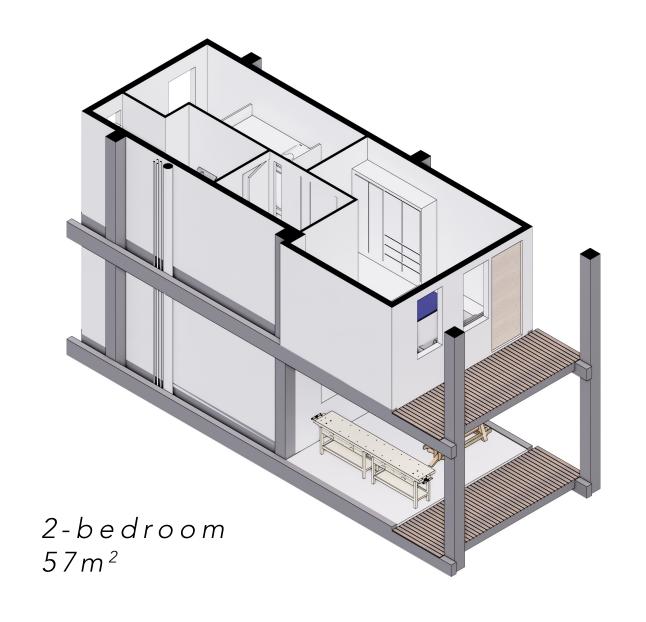




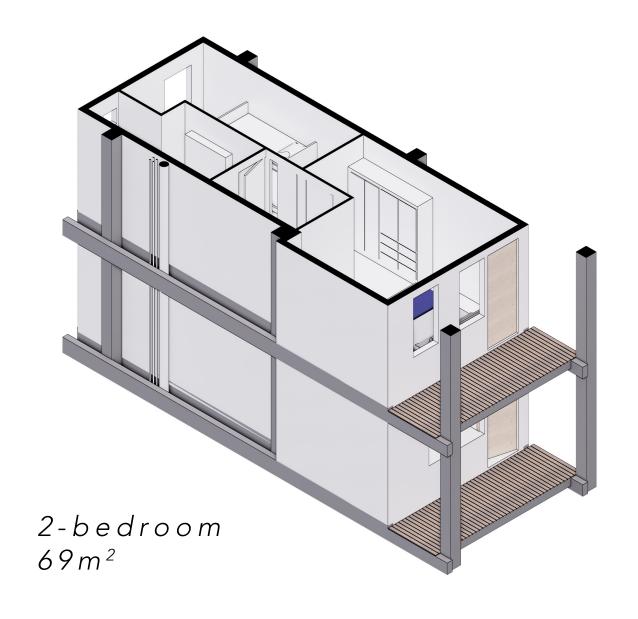


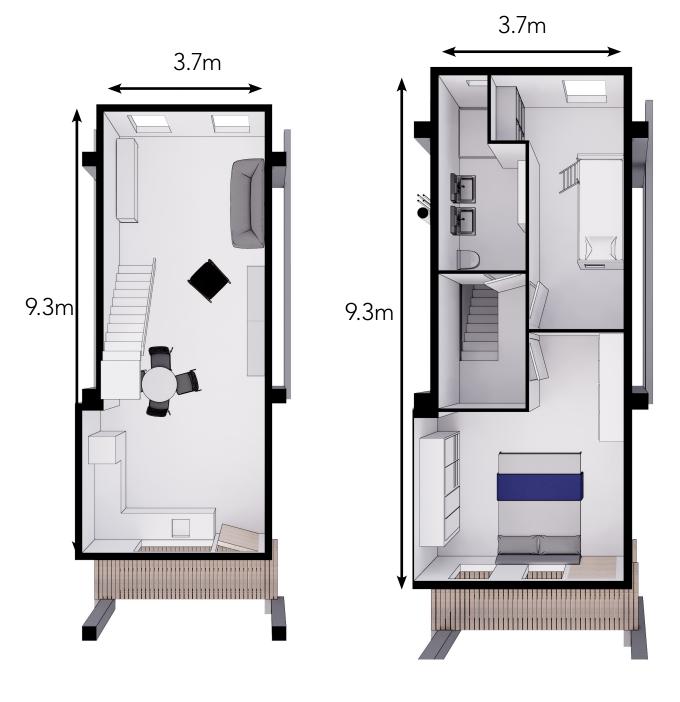






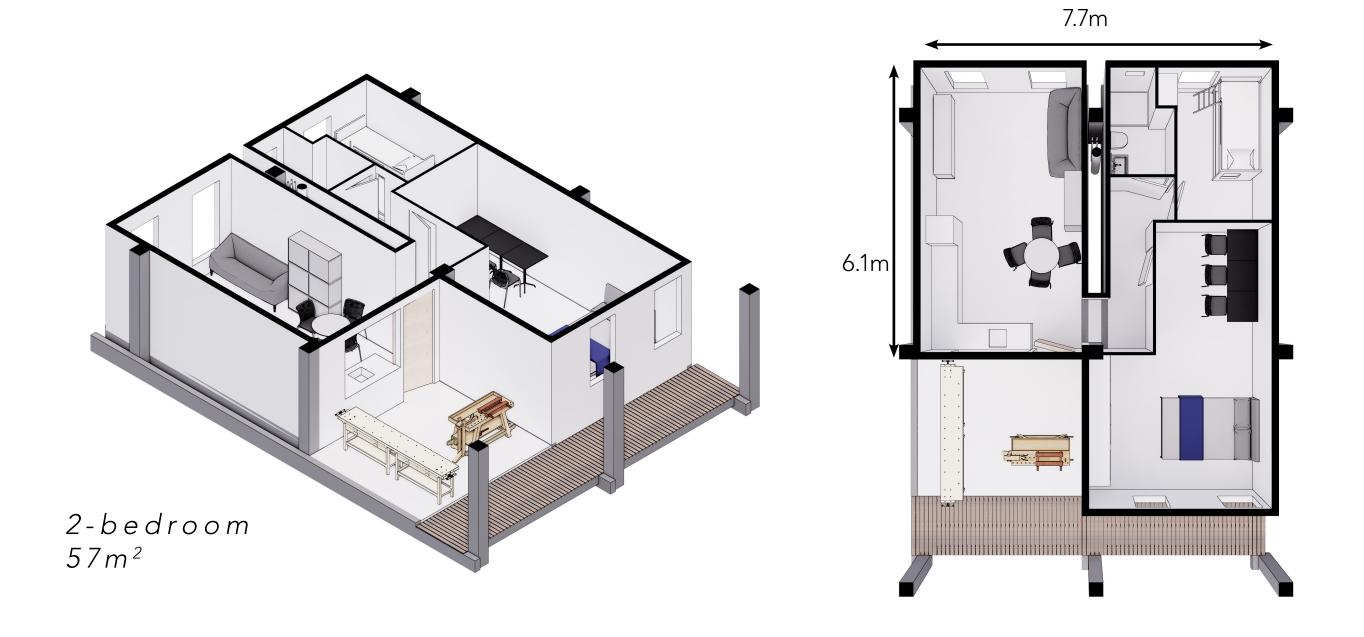


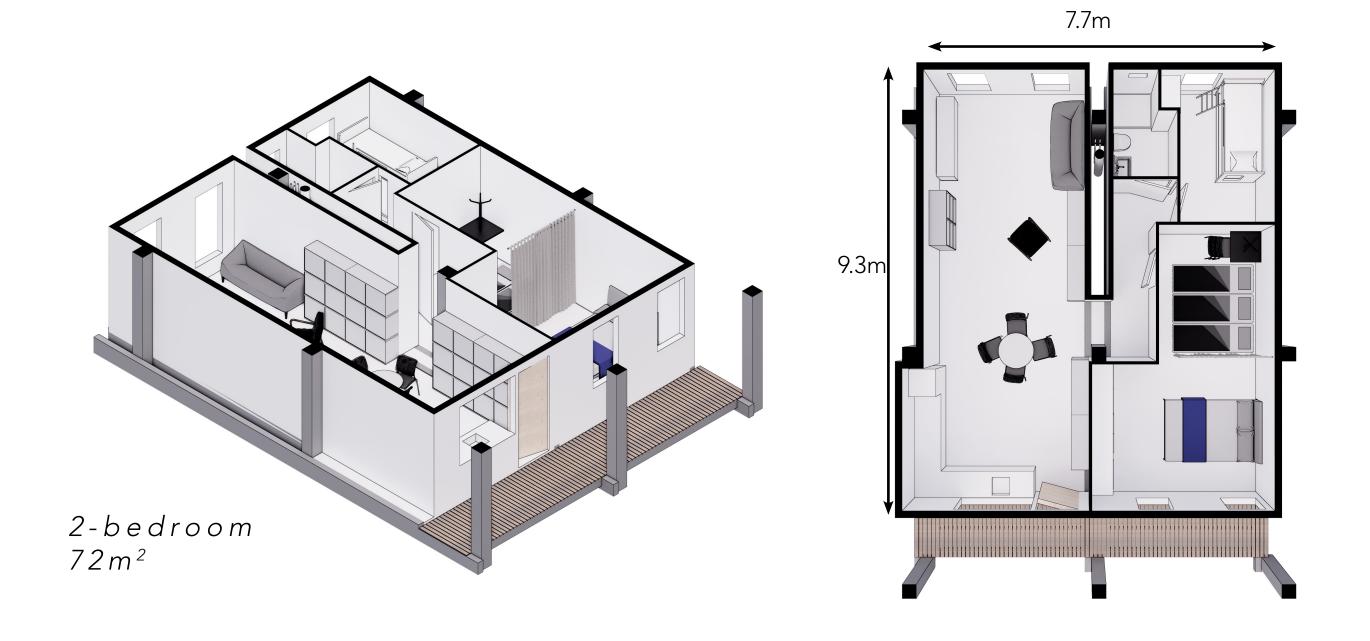


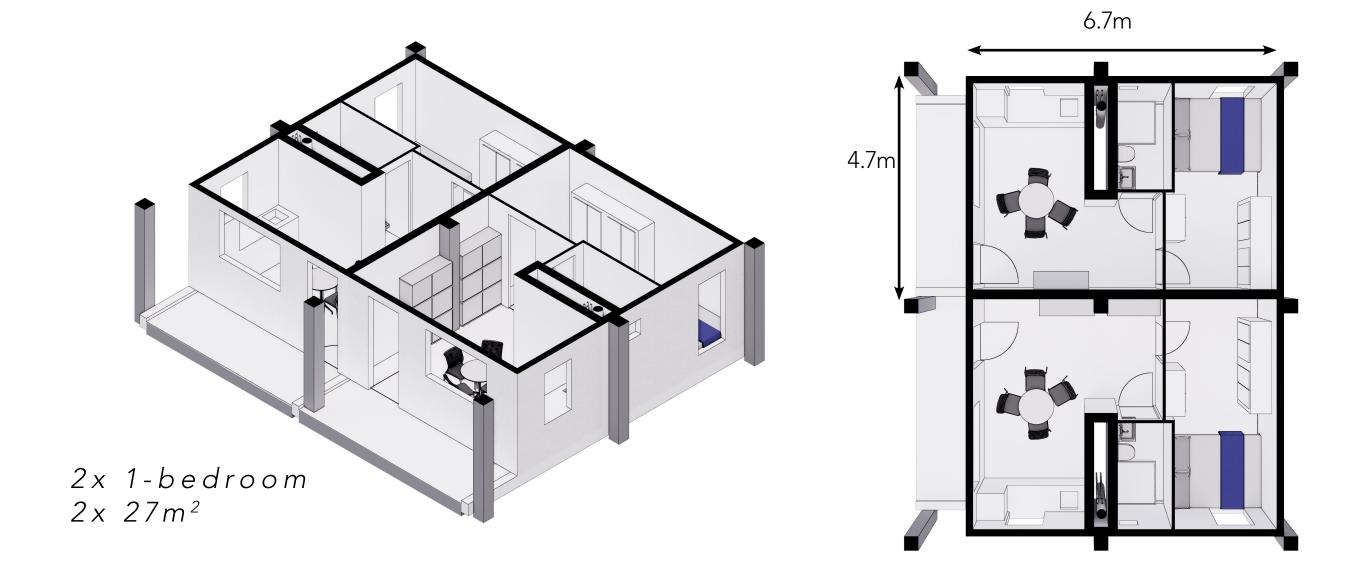


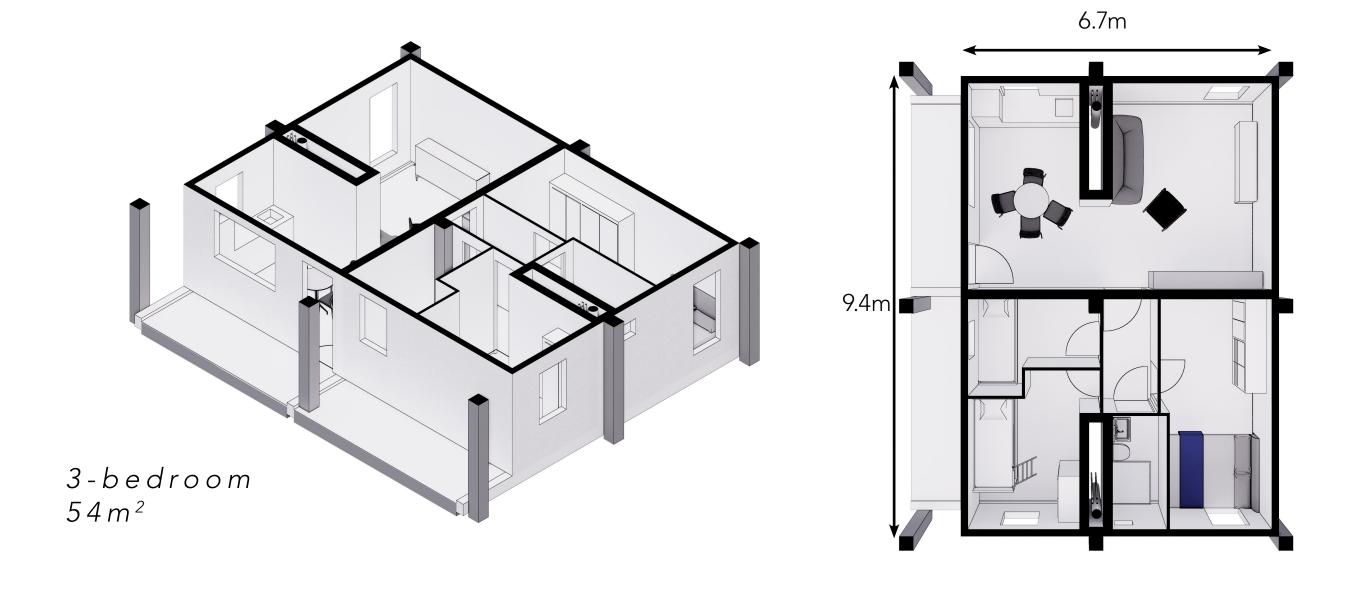


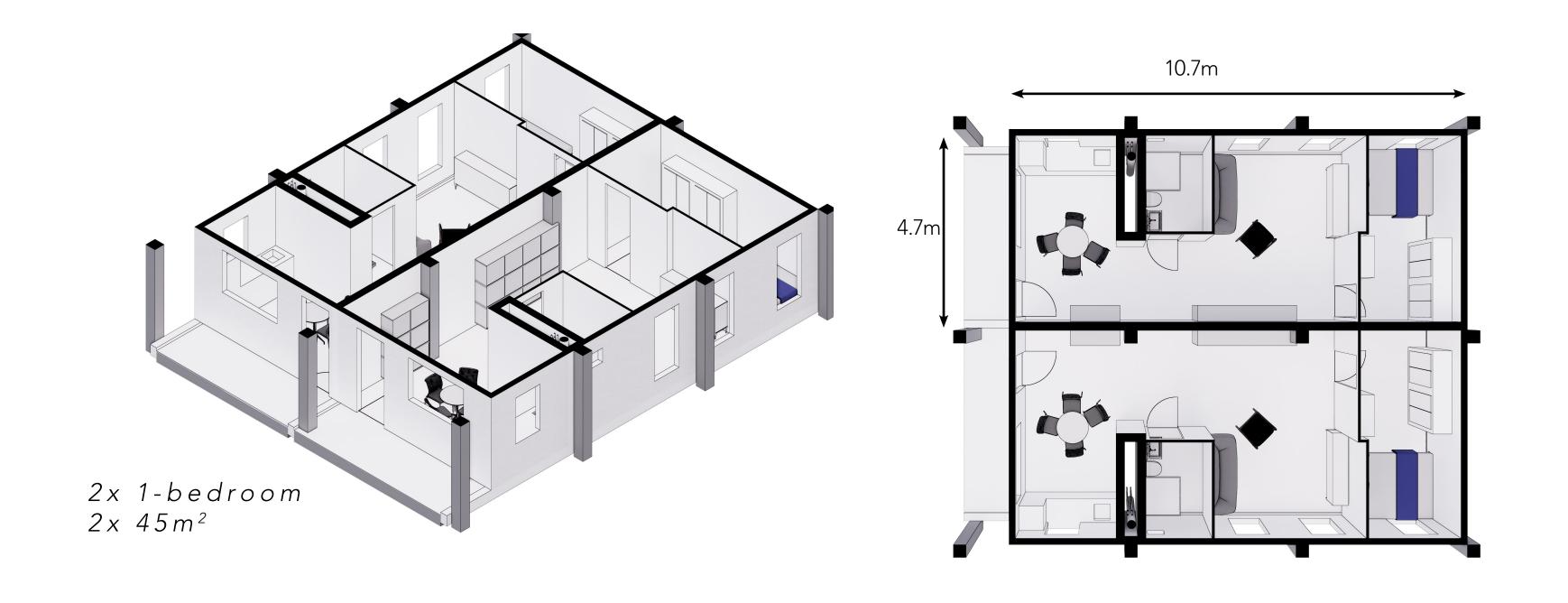






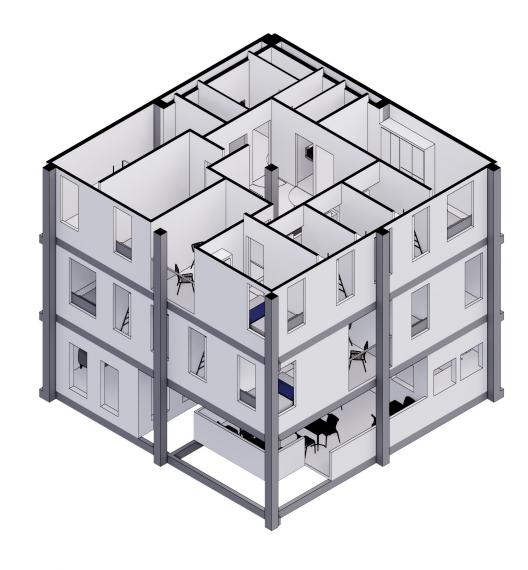




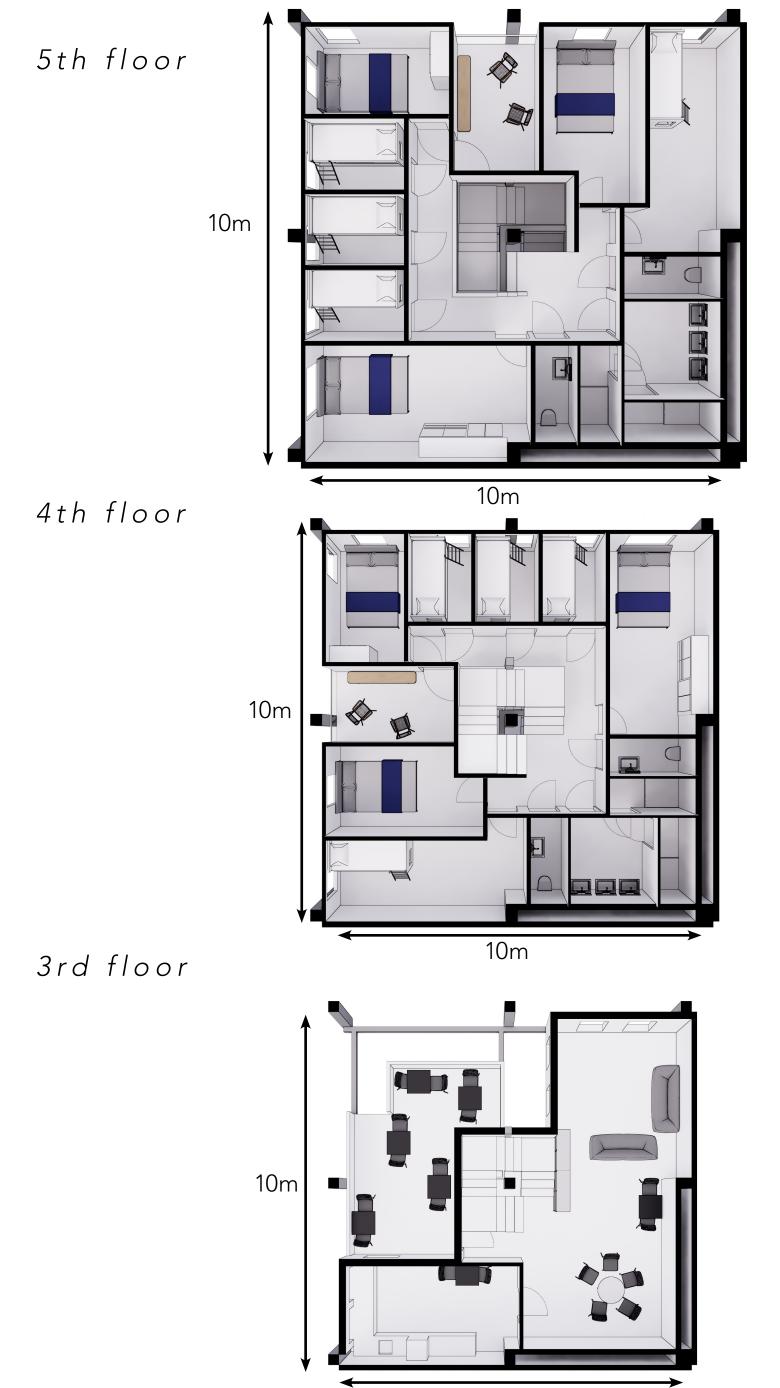


CORNER DWELLING (3-5)

group dwelling

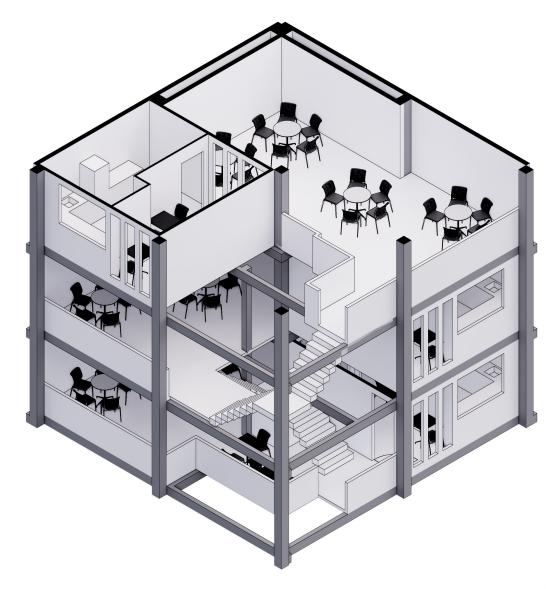


14-bedroom group unit 241m² 3rd floor (69m²) 4th floor (86m²) 5th floor (86m²)



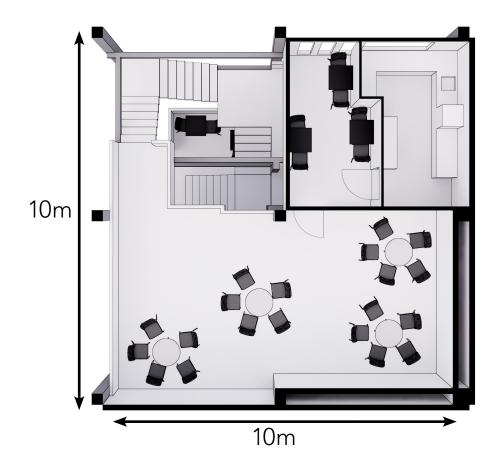
CORNER DWELLING (3-5)

public amenity

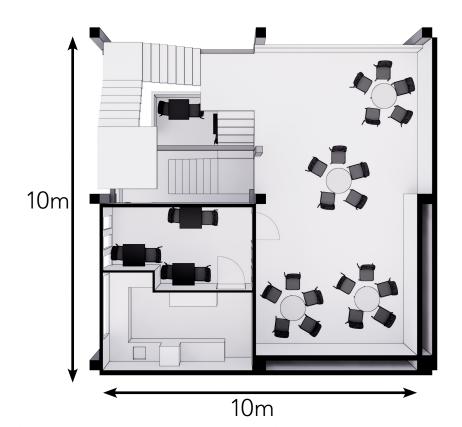


public amenity three levels of roof terrace & café

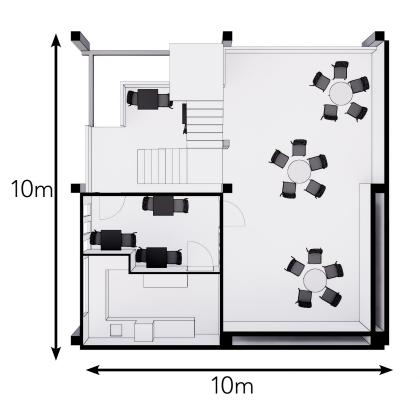
5th floor



4th floor

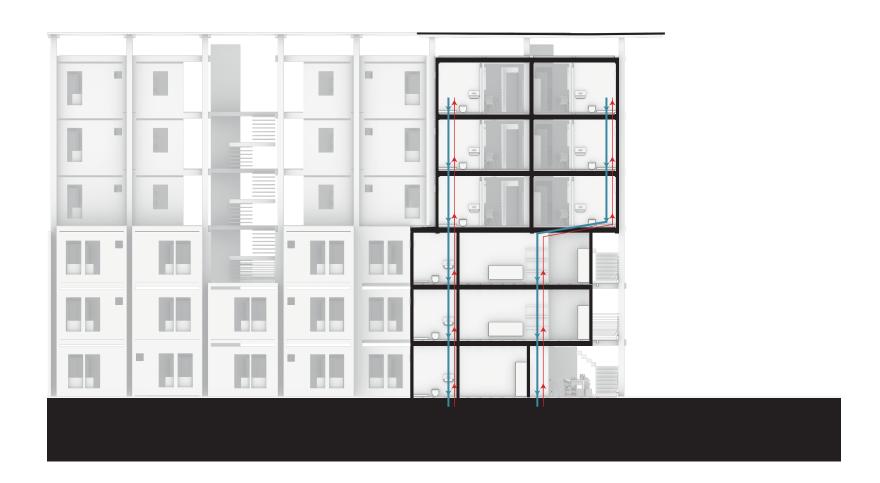


3rd floor

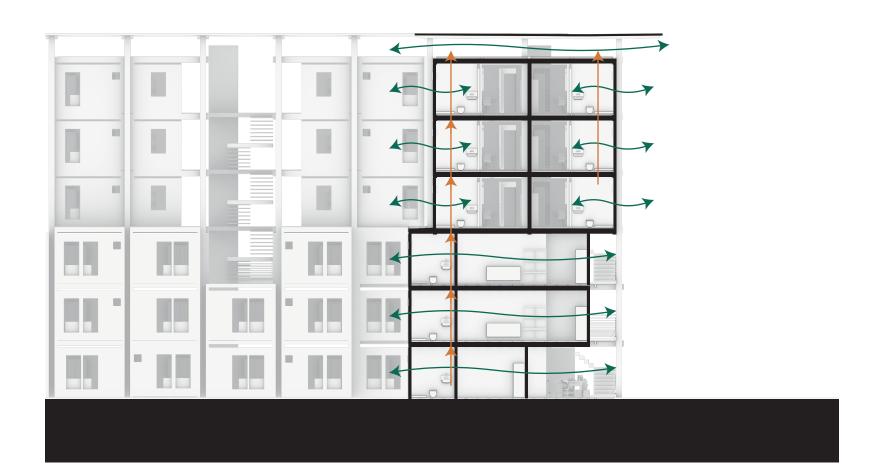


CROSS SECTION

climate control



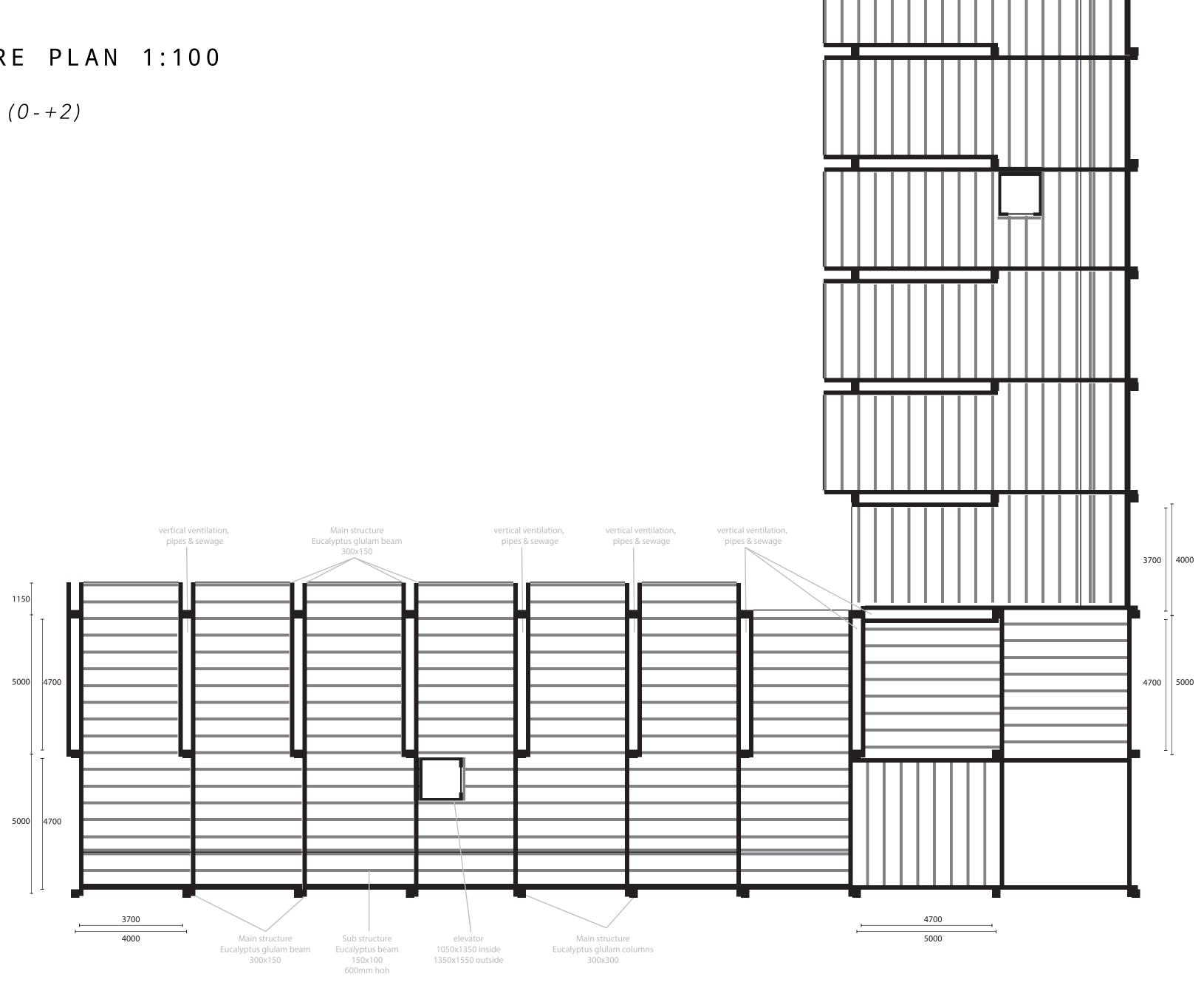






STRUCTURE PLAN 1:100

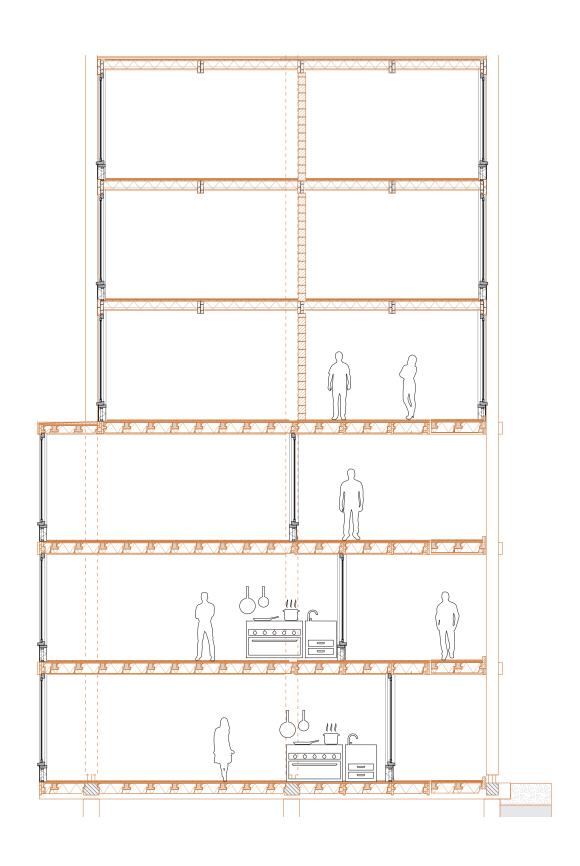
lower part (0-+2)



STRUCTURE PLAN 1:100 upper part (3-+5) 3700 4000 vertical ventilation, vertical ventilation, / pipes & sewage / pipes & sewage 4700 5000 Main structure Main structure Sub structure elevator vertical ventilation, Eucalyptus glulam beam Eucalyptus beam 1050x1350 inside Eucalyptus glulam columns pipes & sewage 300x150 150x100 1350x1550 outside 300x300

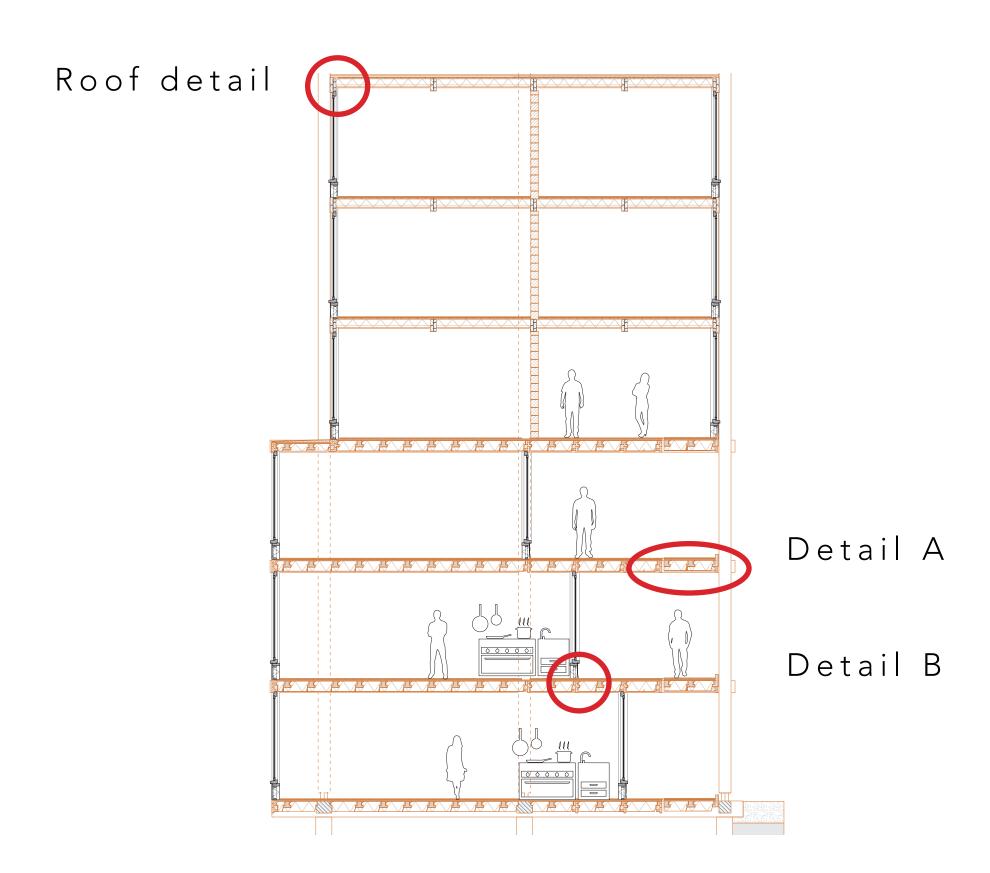
SECTION 1:50 - SCALED

cross section - overview

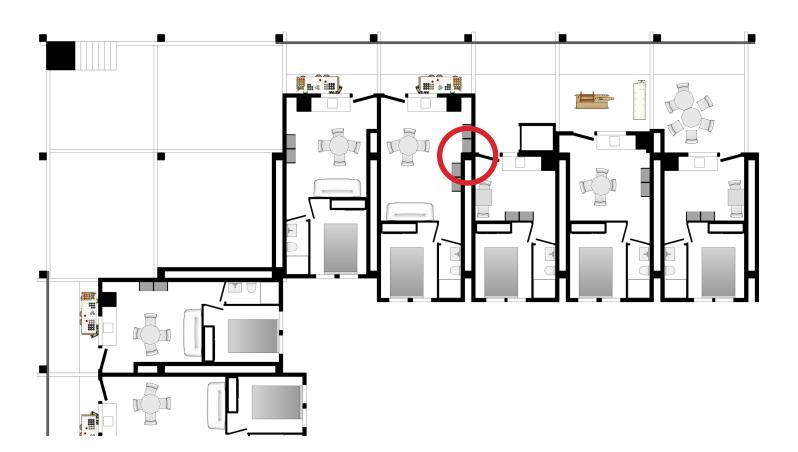


DETAILS

locations

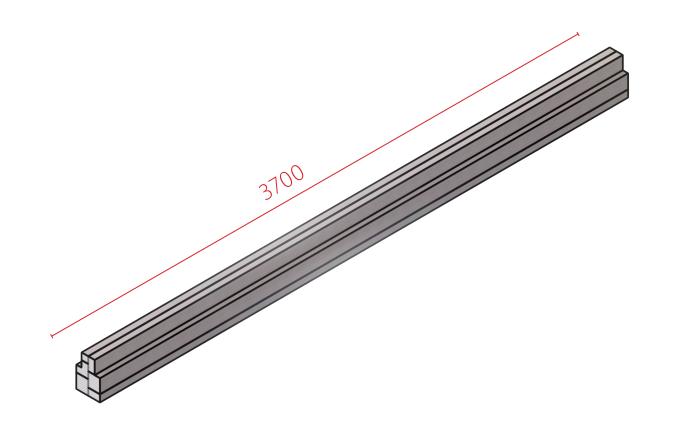


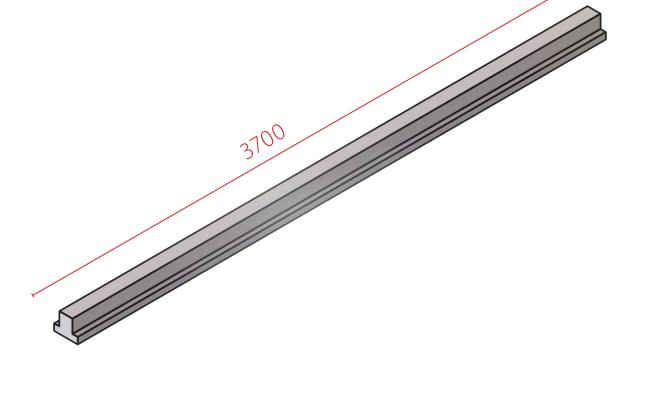
Detail C

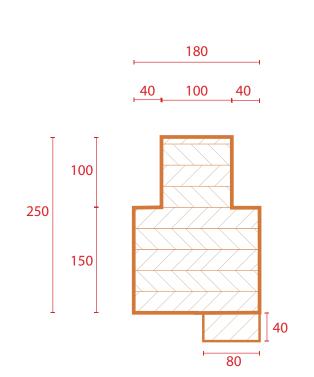


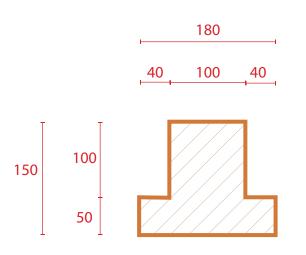
BASIC ELEMENTS

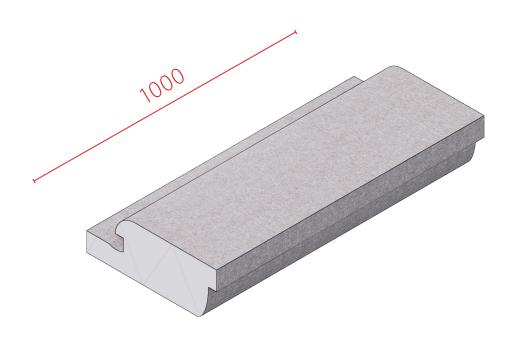
glulam, eucalyptus and hempcrete

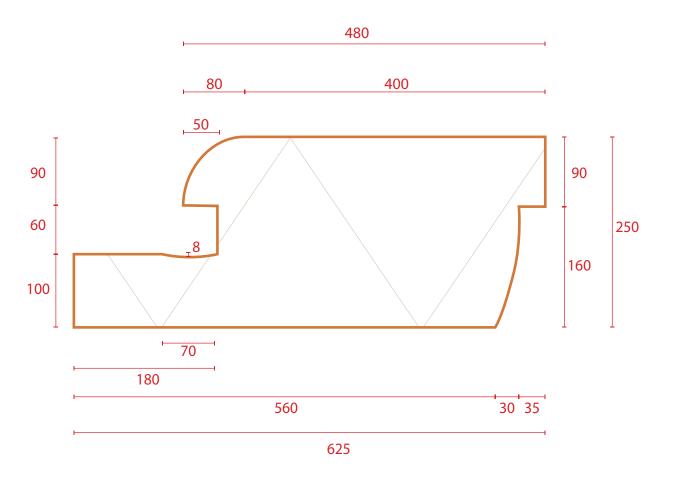


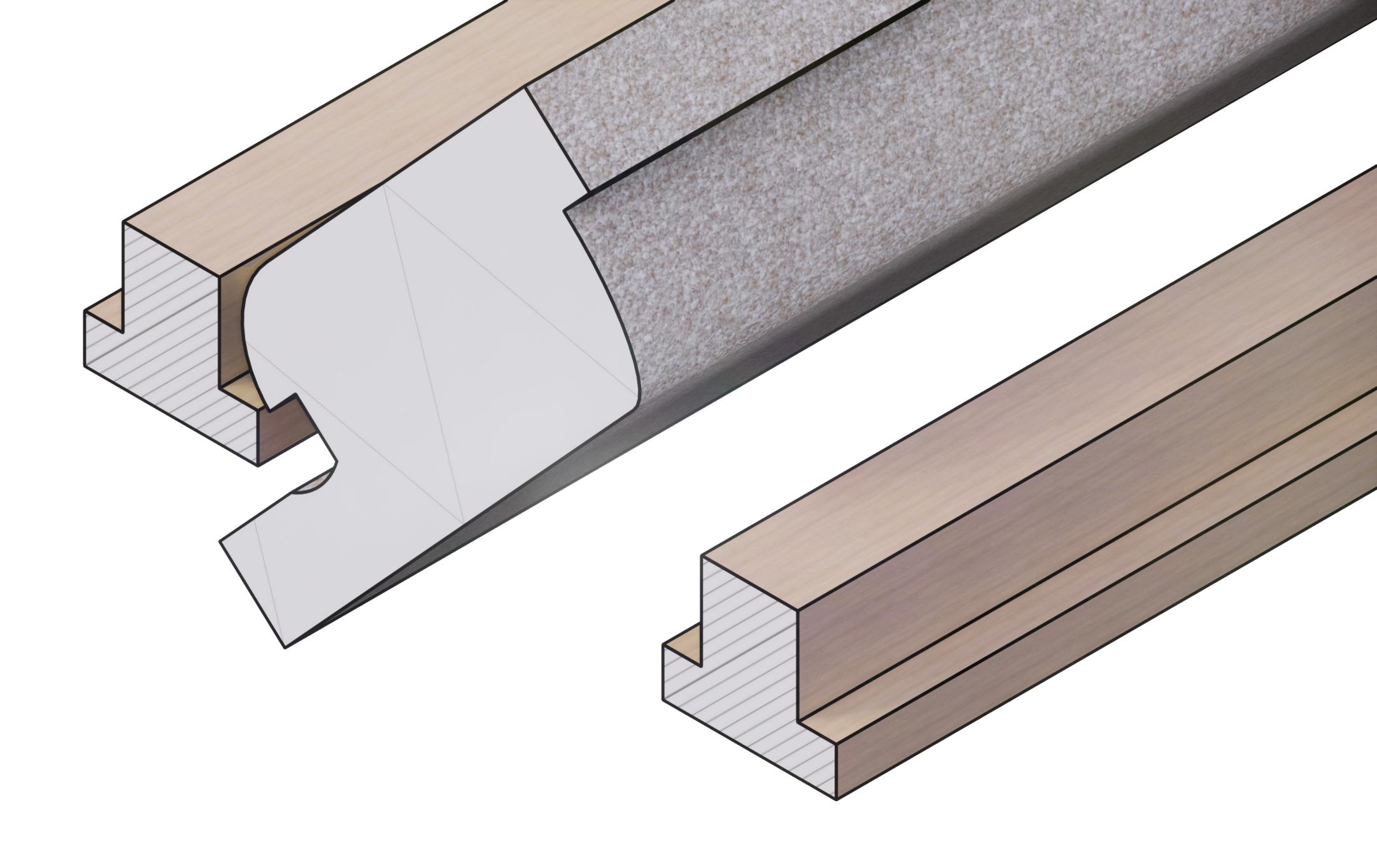


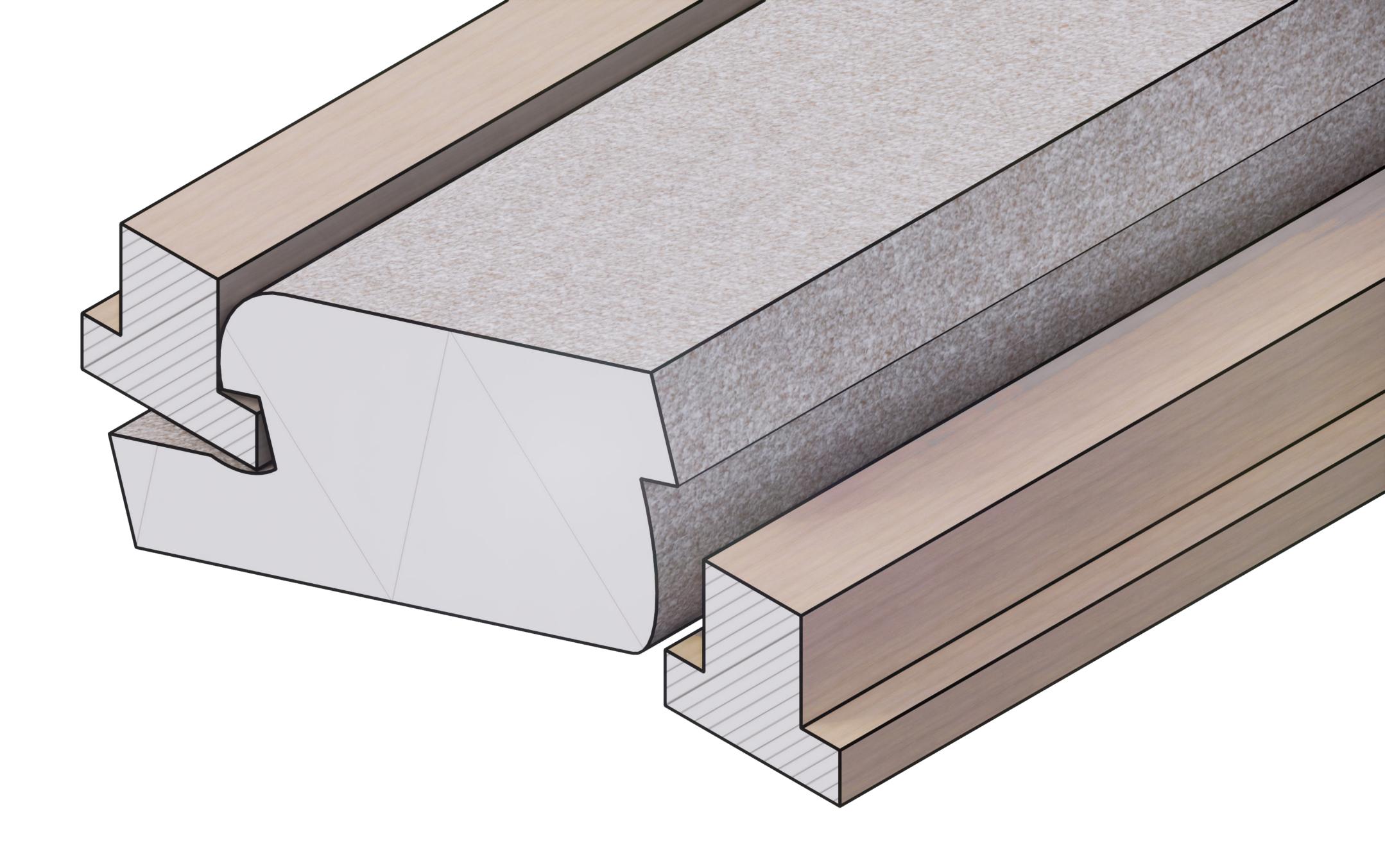


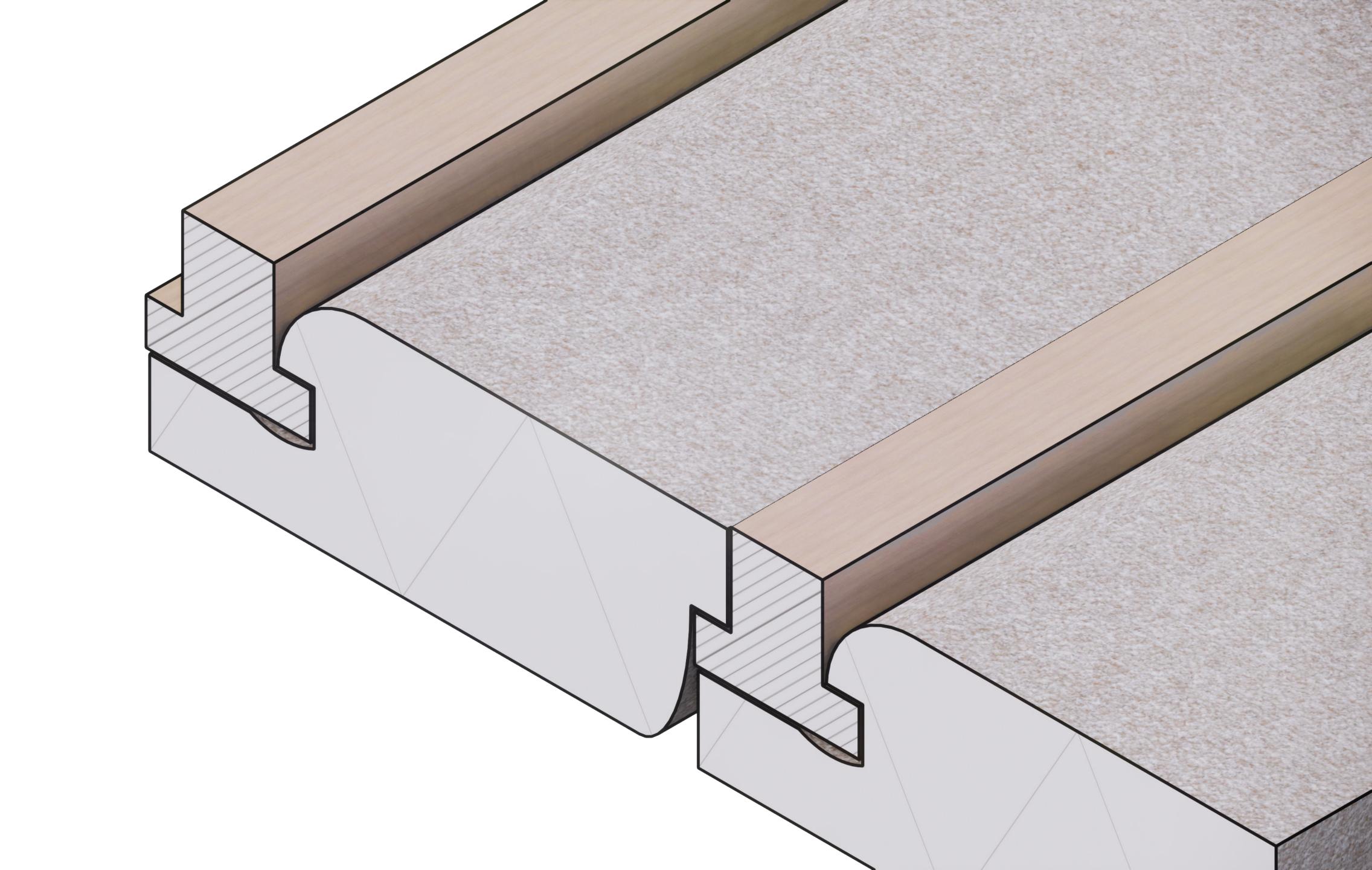


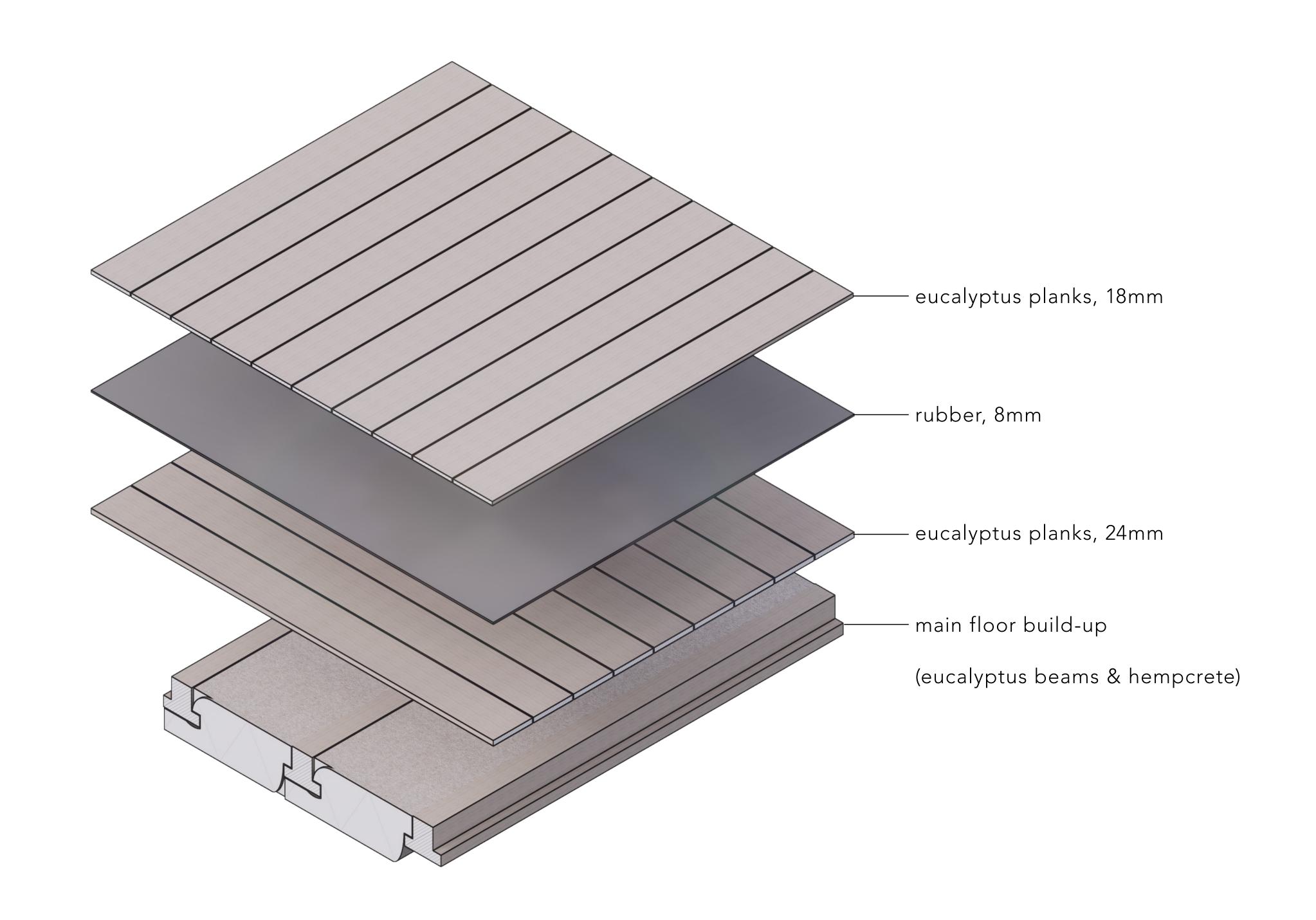






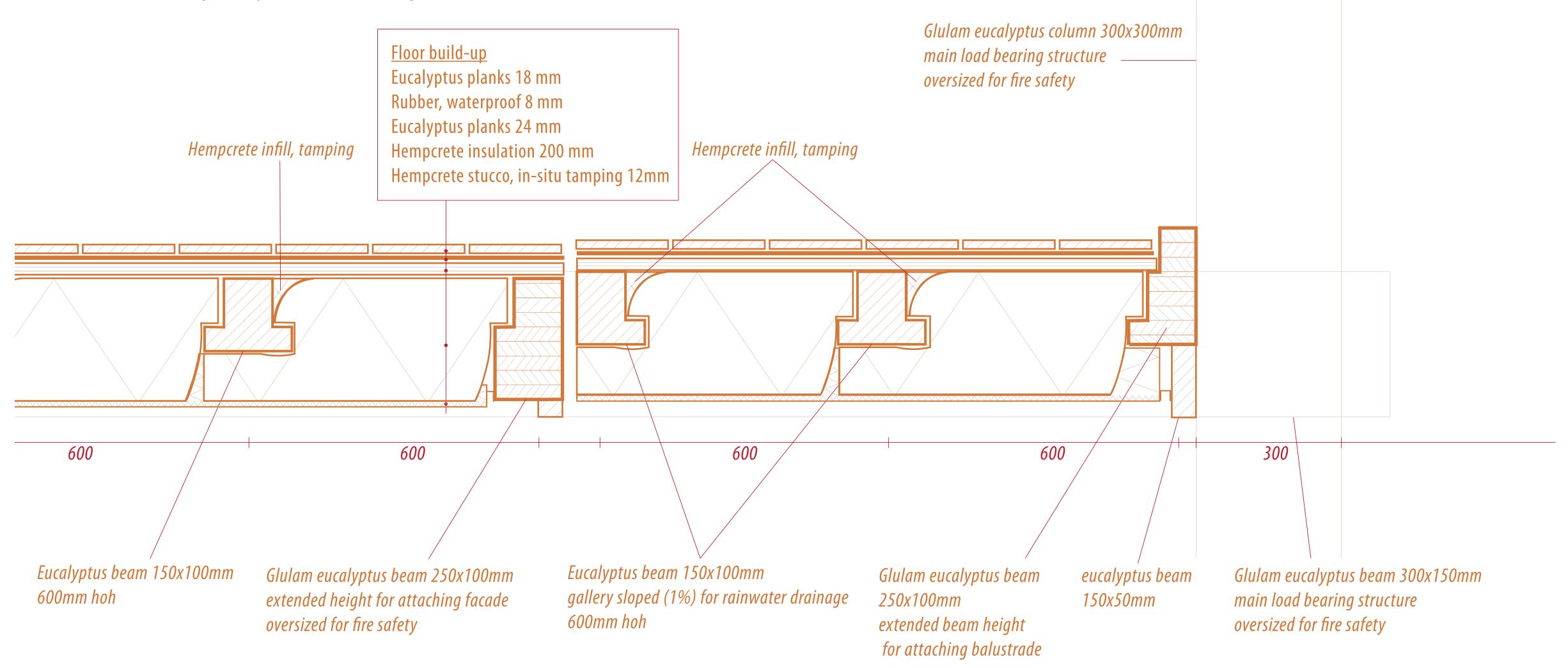






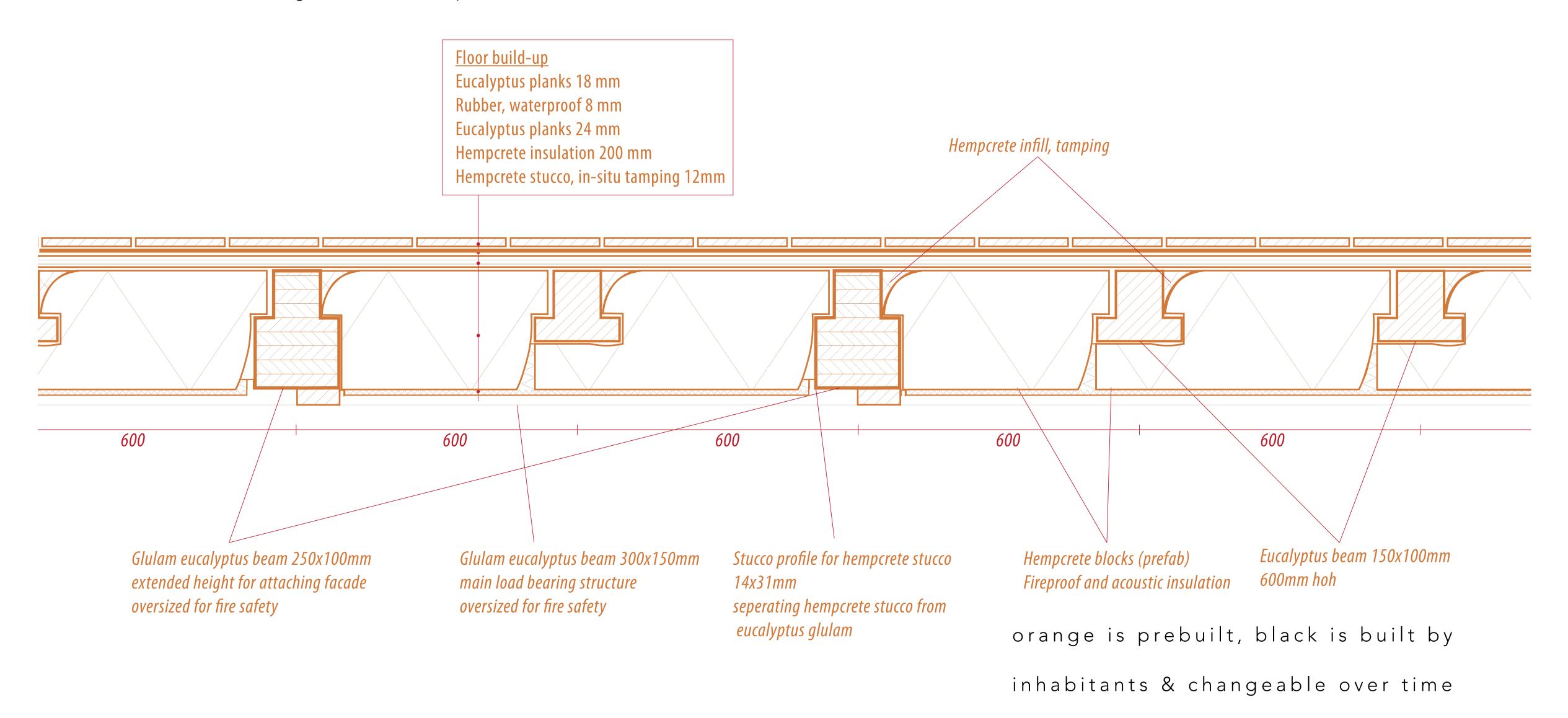
DETAIL A 1:5

basis - galery and dwelling floor

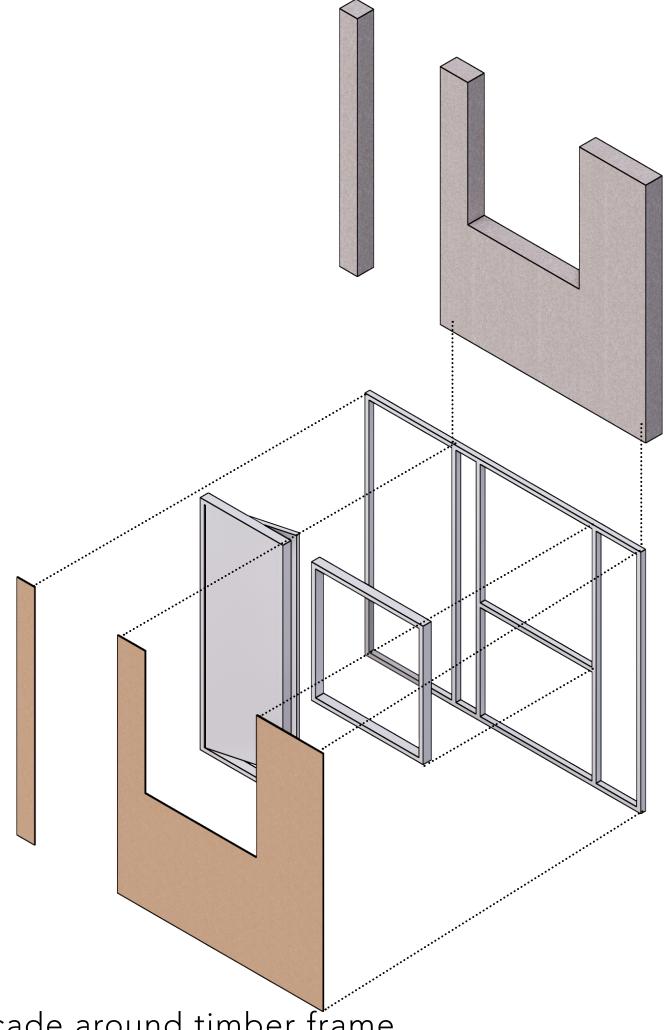


DETAIL B 1:5

basis - dwelling floor build-up

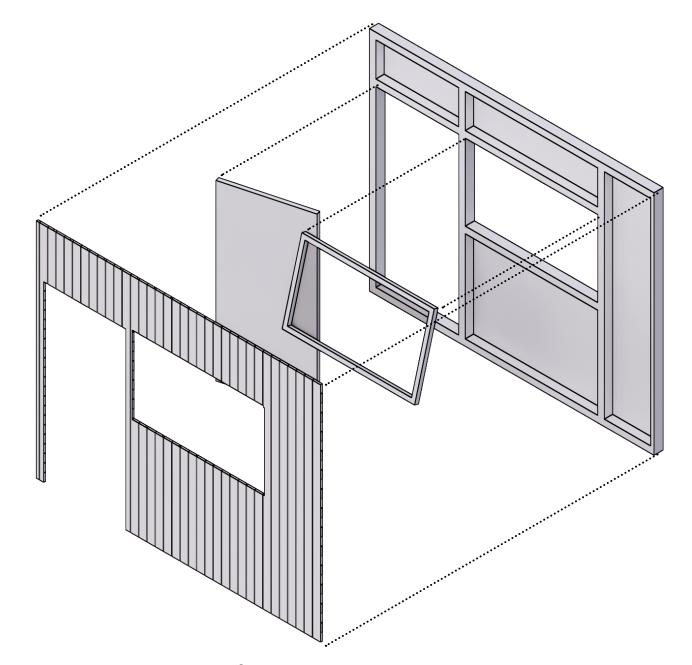


DETAIL B 1:5 facade options



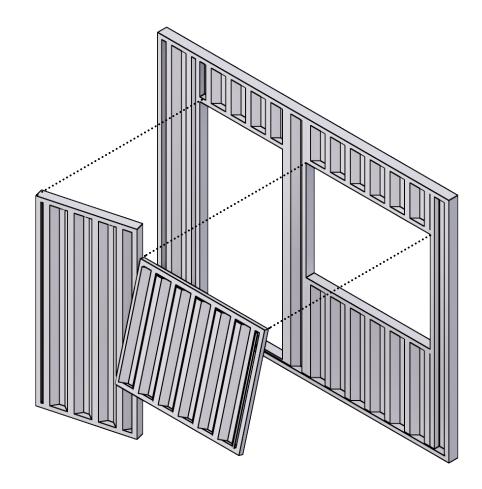
facade <u>around</u> timber frame

(hempcrete)



facade <u>on</u> timber frame

(eucalyptus planks)

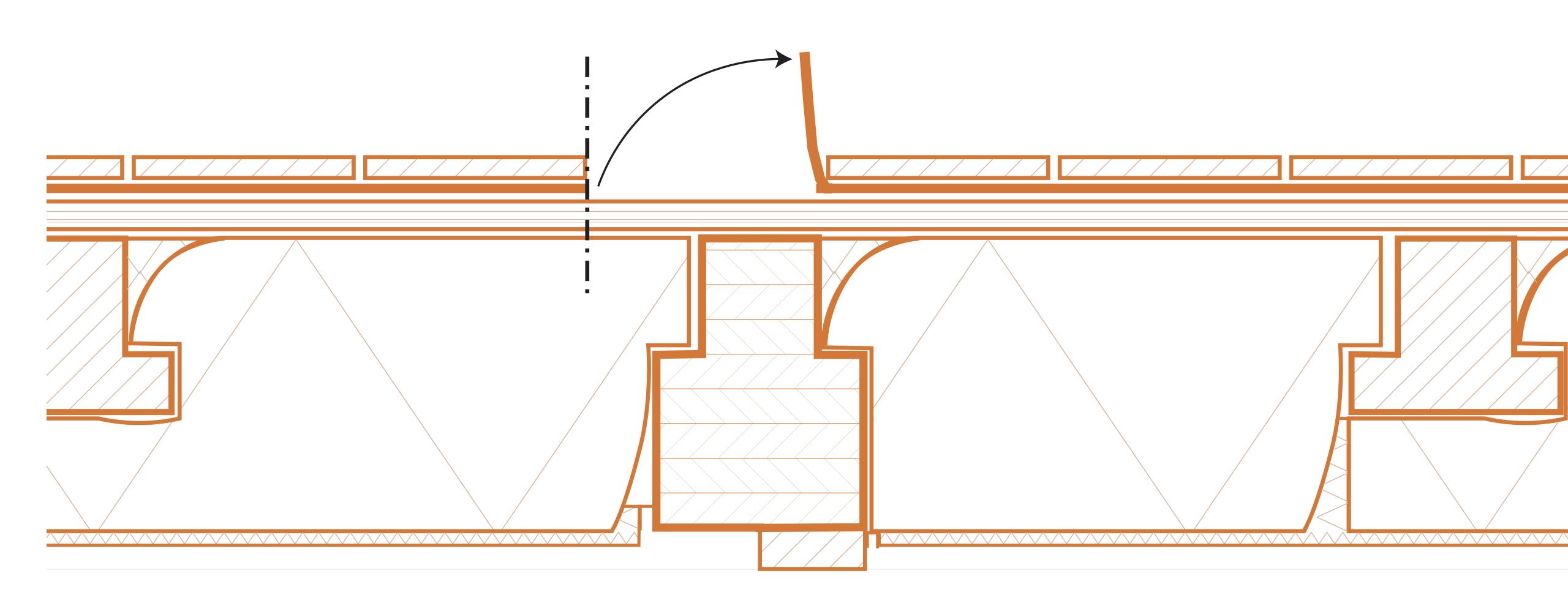


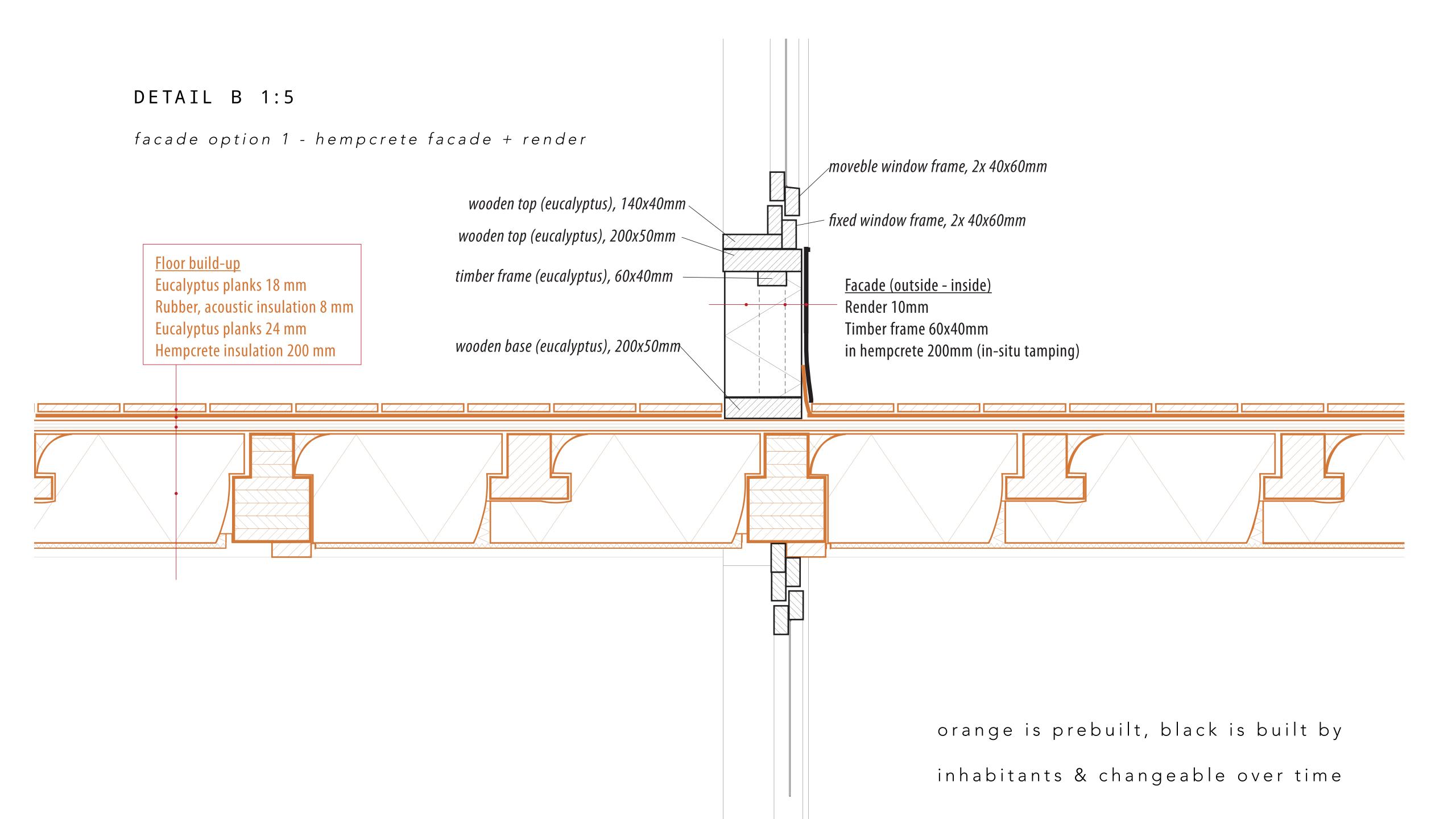
facade <u>in</u> timber frame

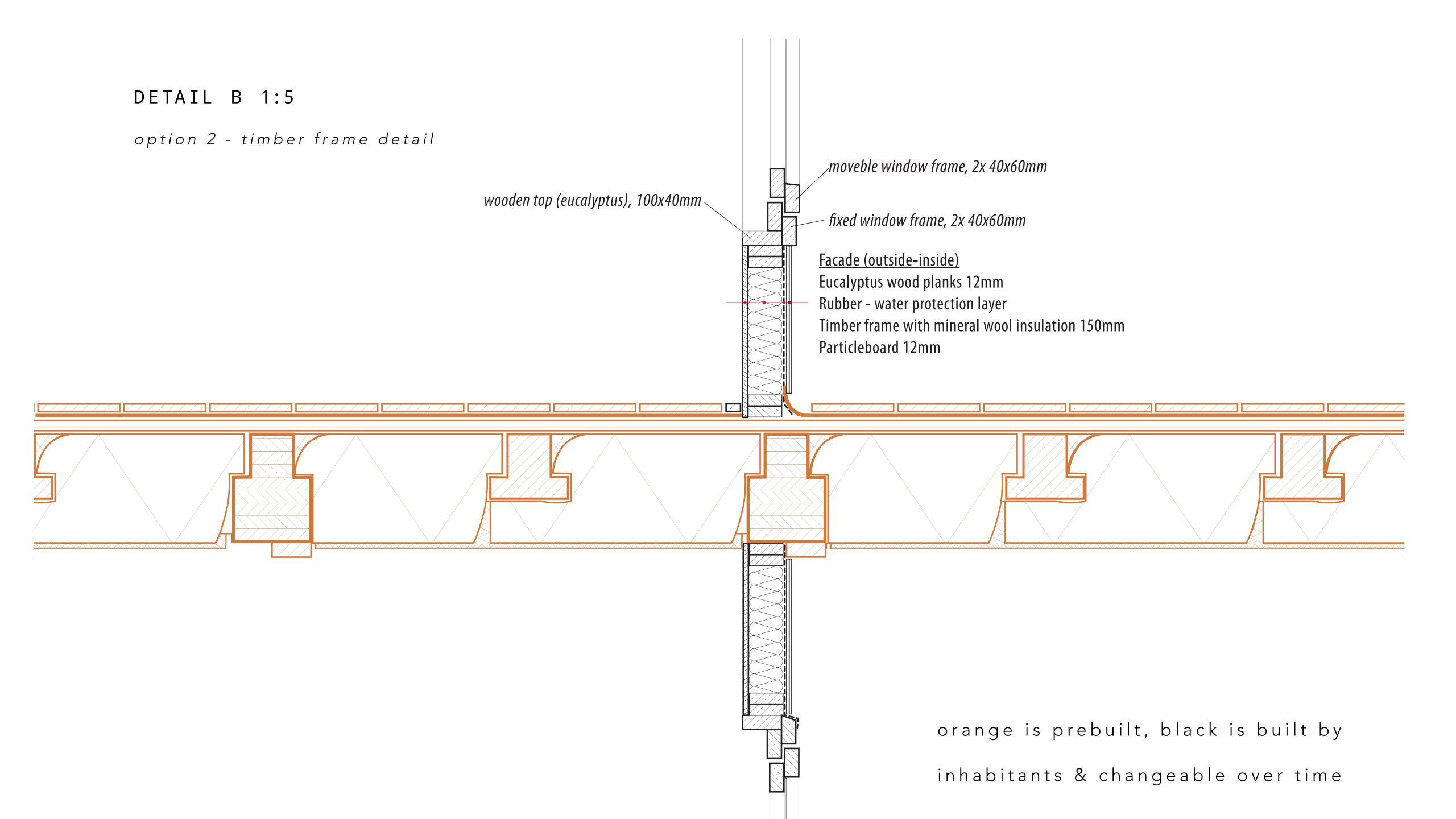
(corrugated steel)

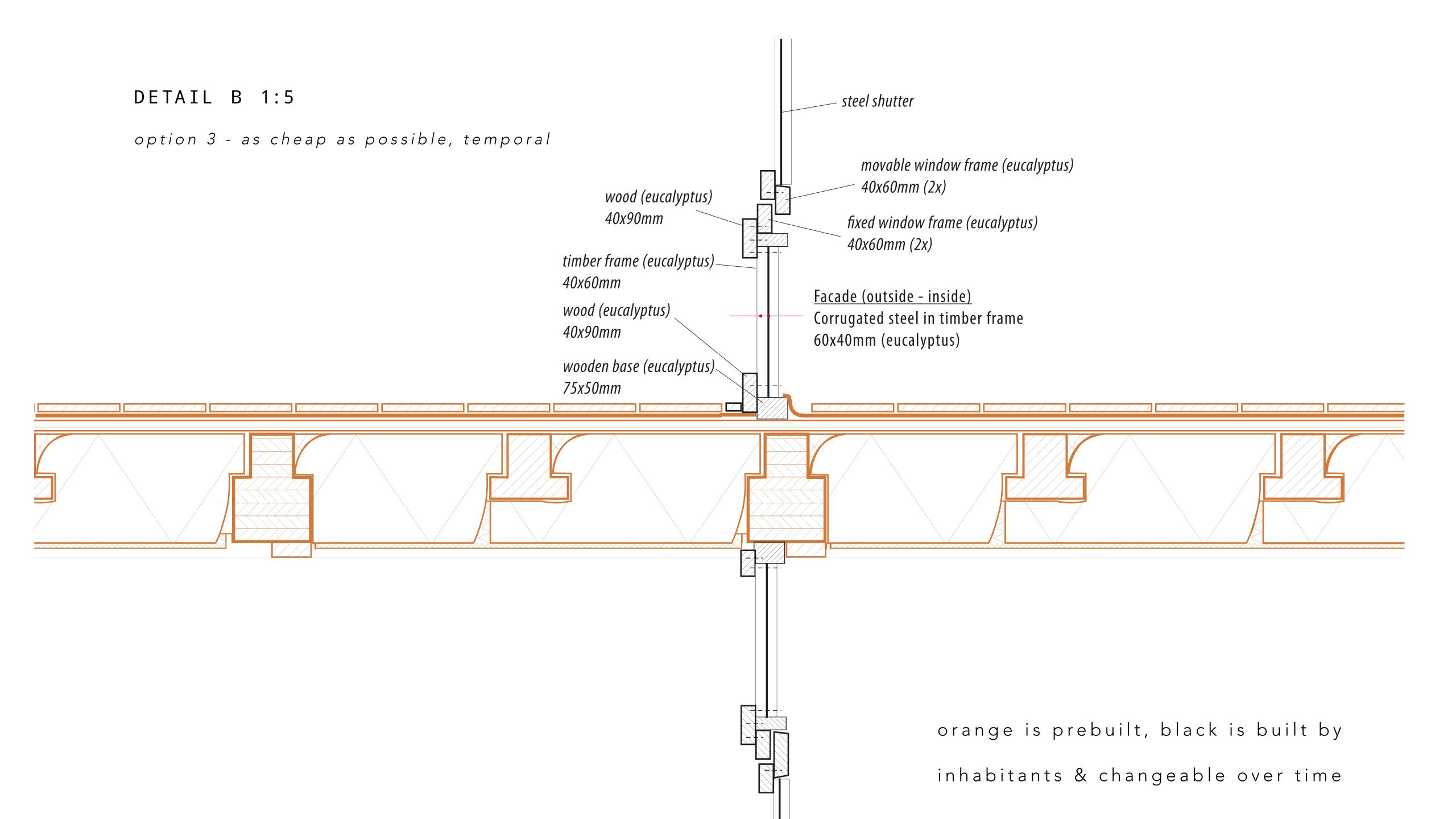
DETAIL B 1:2

option for facade placement



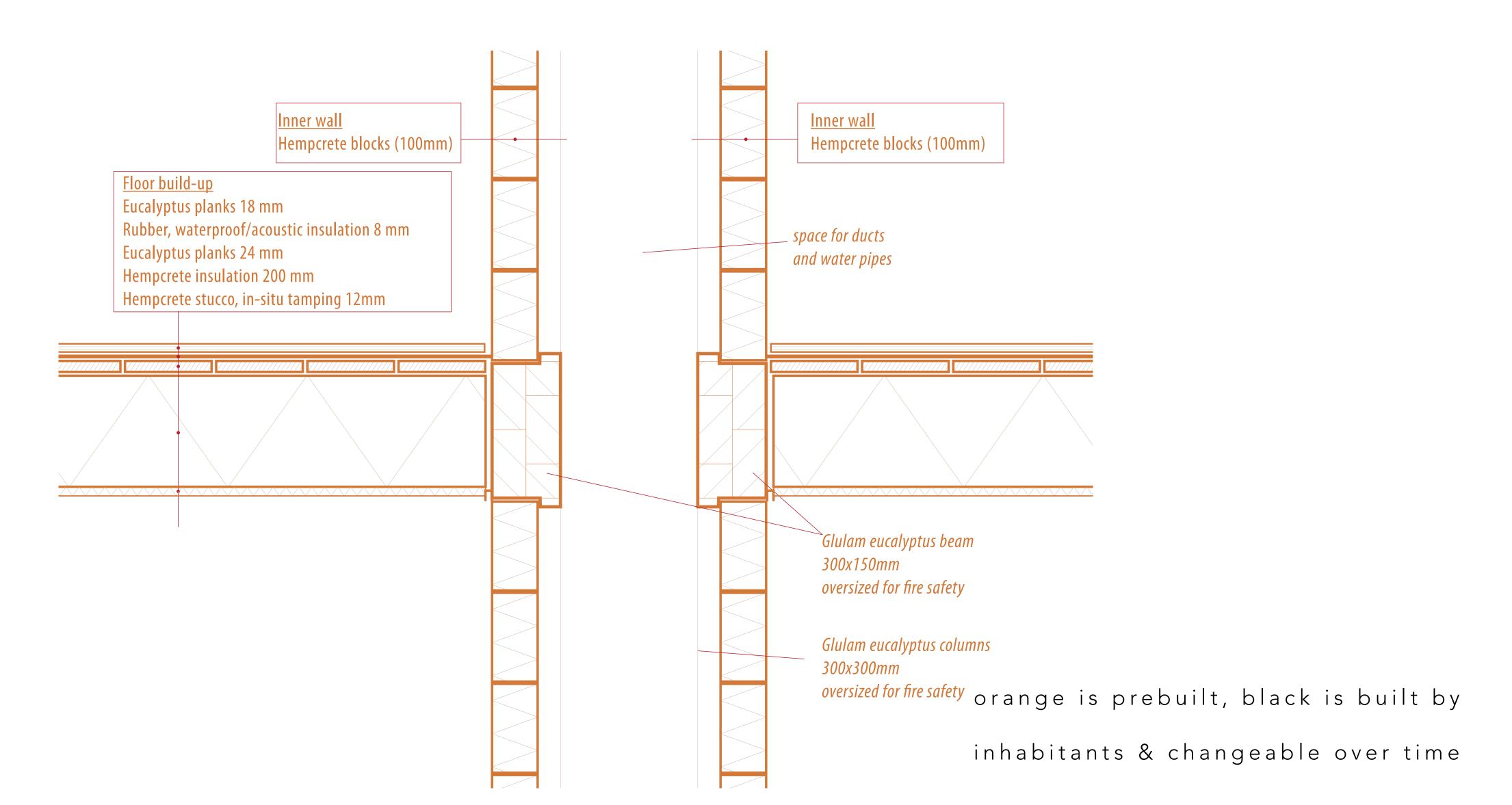






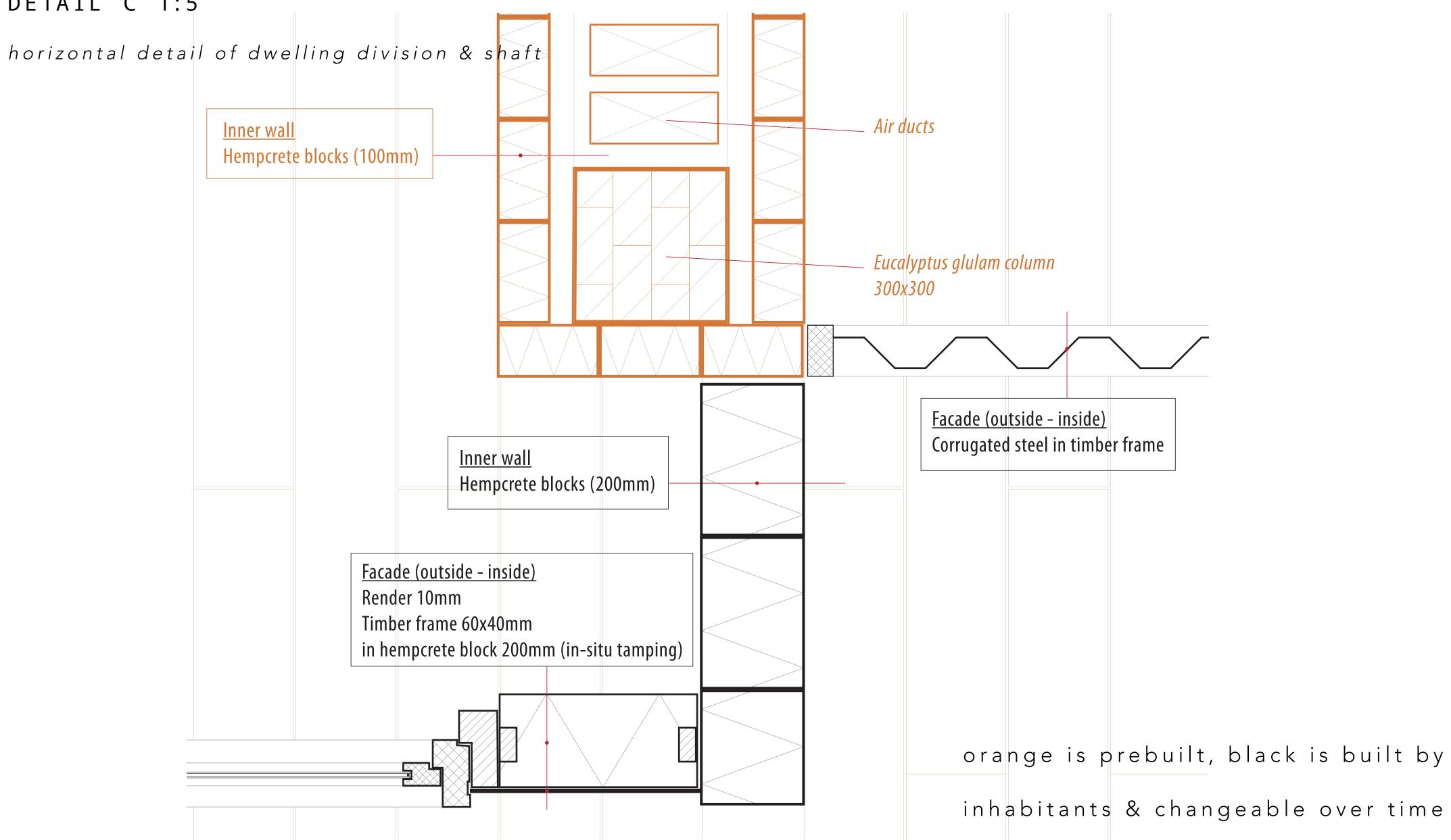
DETAIL C 1:5

vertical detail of dwelling division & shaft

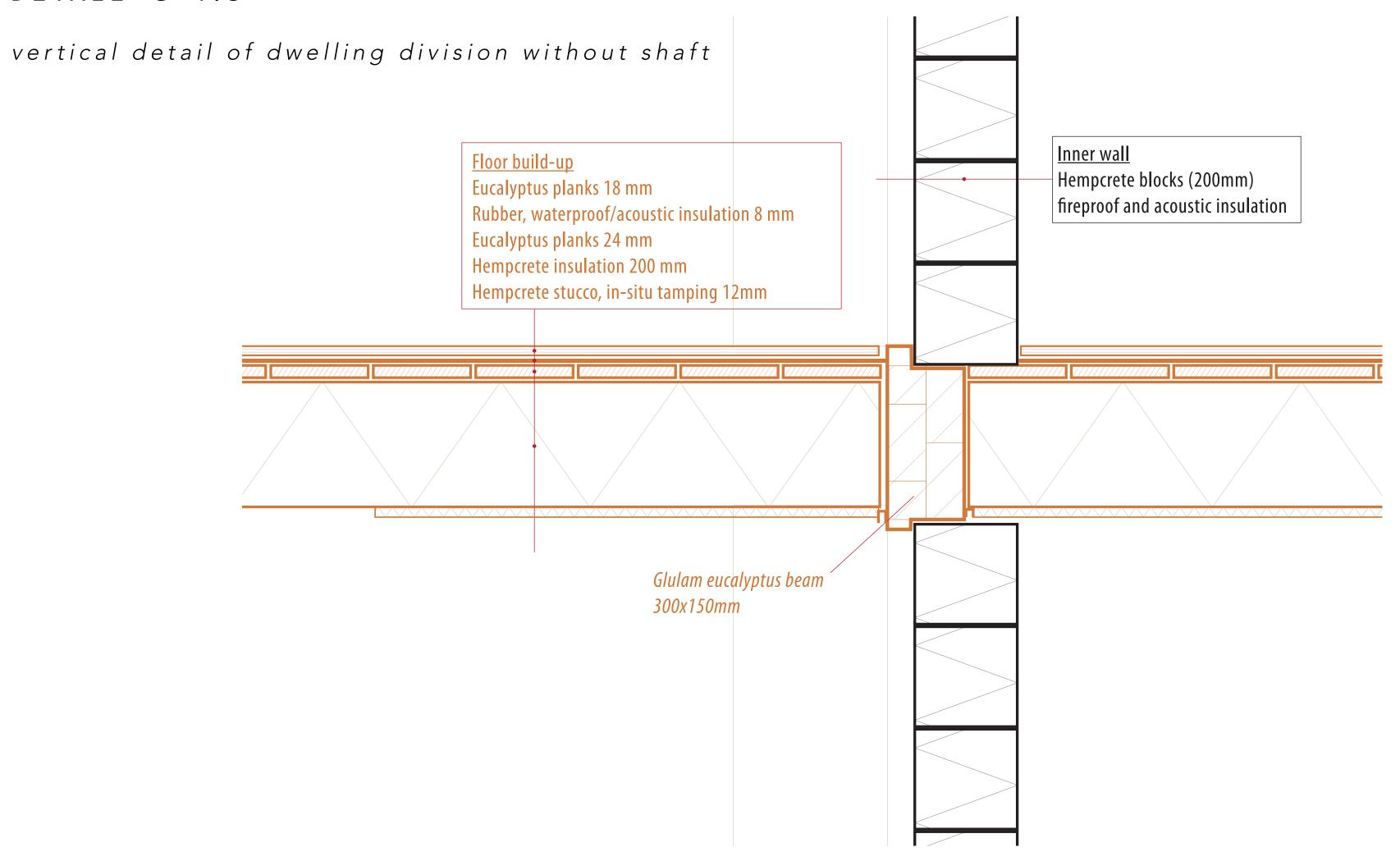




DETAIL C 1:5

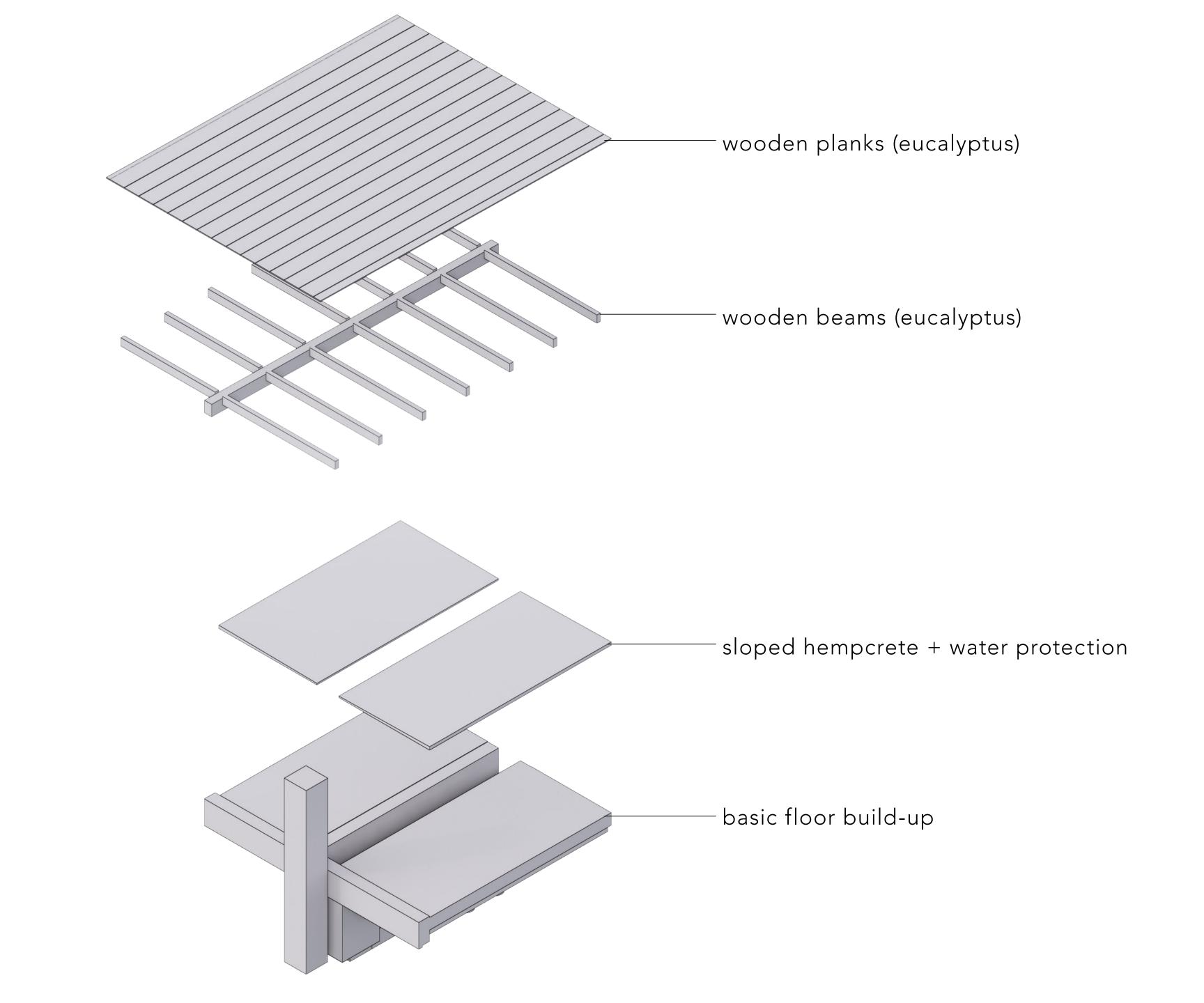


DETAIL C 1:5

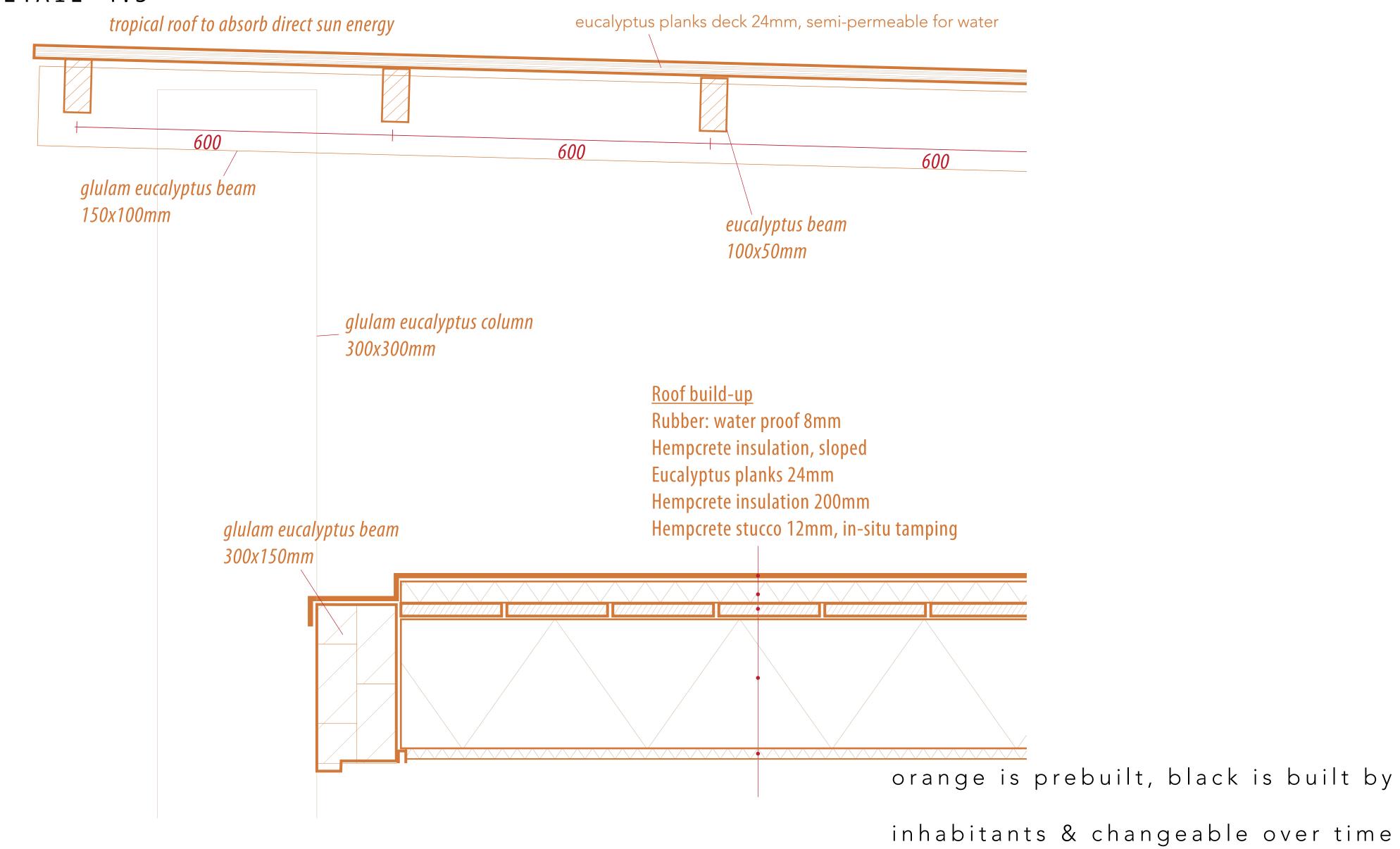


orange is prebuilt, black is built by inhabitants & changeable over time

ROOF AXONOMETRY



ROOF DETAIL 1:5







AMENITIES

needs large space close to active street	needs small space close to active street
needs large space open air - central square	needs small space at active street in building block

AMENITIES

elementary school kindergarten church/chapel police station theatre library garden & parks cinema	needs large space close to active street	needs small space close to active street	sports centre/fitness post office drugstore/pharmacy doctors office garage ateliers community space clubs
festivities open air theatre	needs large space open air - central square	needs small space at active street in building block	café/restaurants galleries/workshops garages library/book shelves computer work place (wifi) bakery butcher clubs



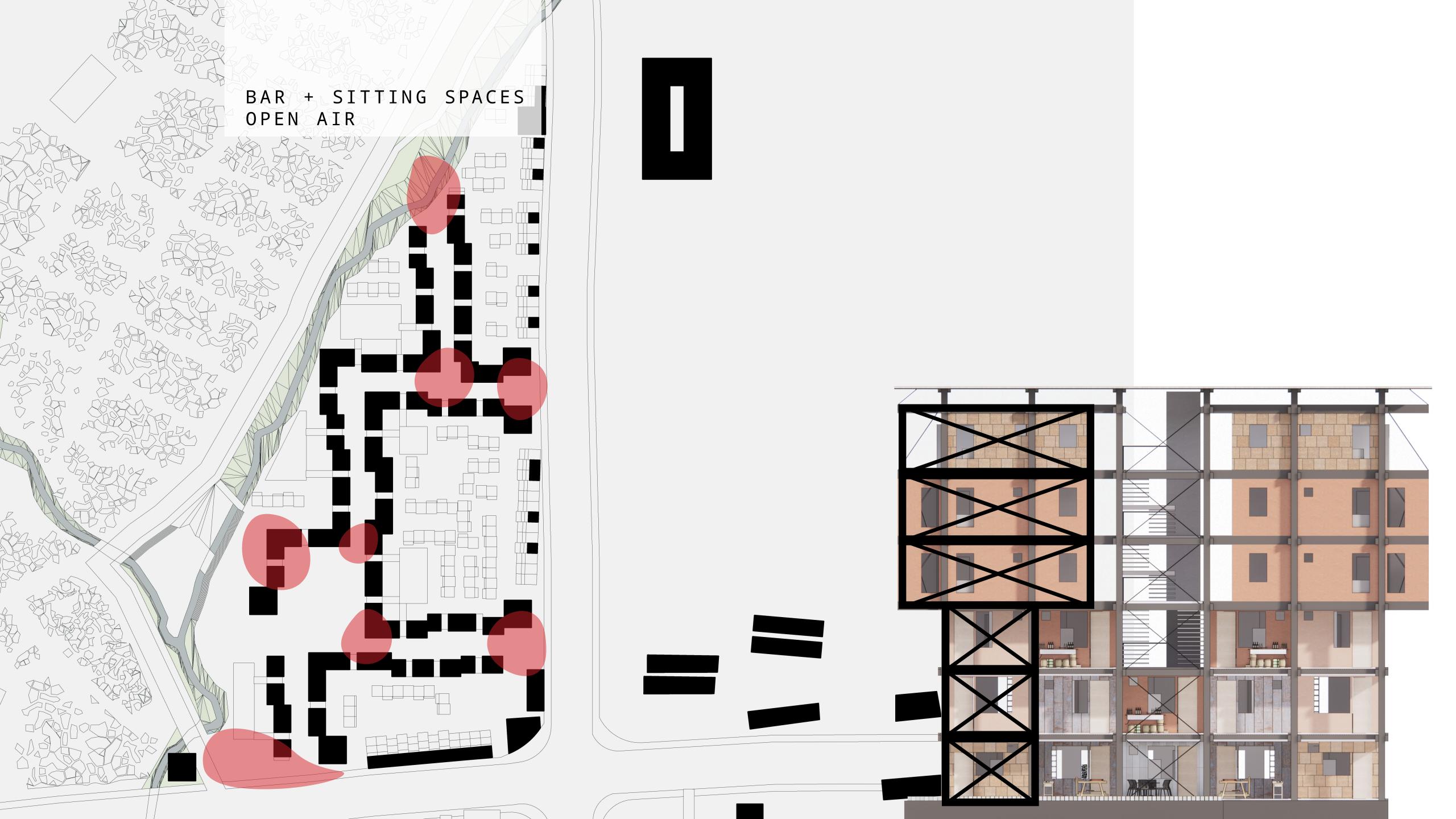
amenities (no dwelling spot)

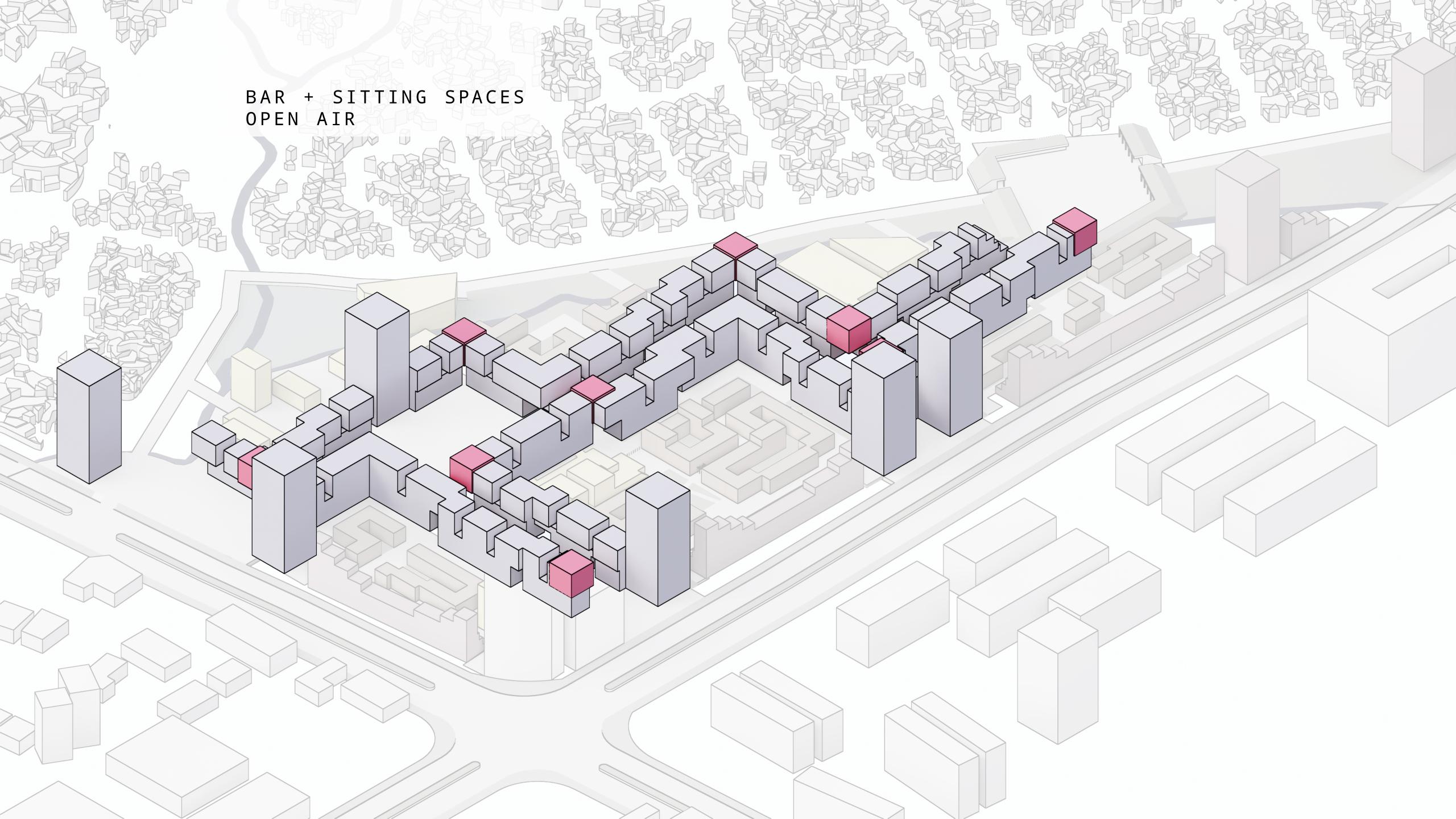
specialised spaces
sitting spaces + bar/kitchen
hotel room
book shelves
good wifi connection
fitness installations

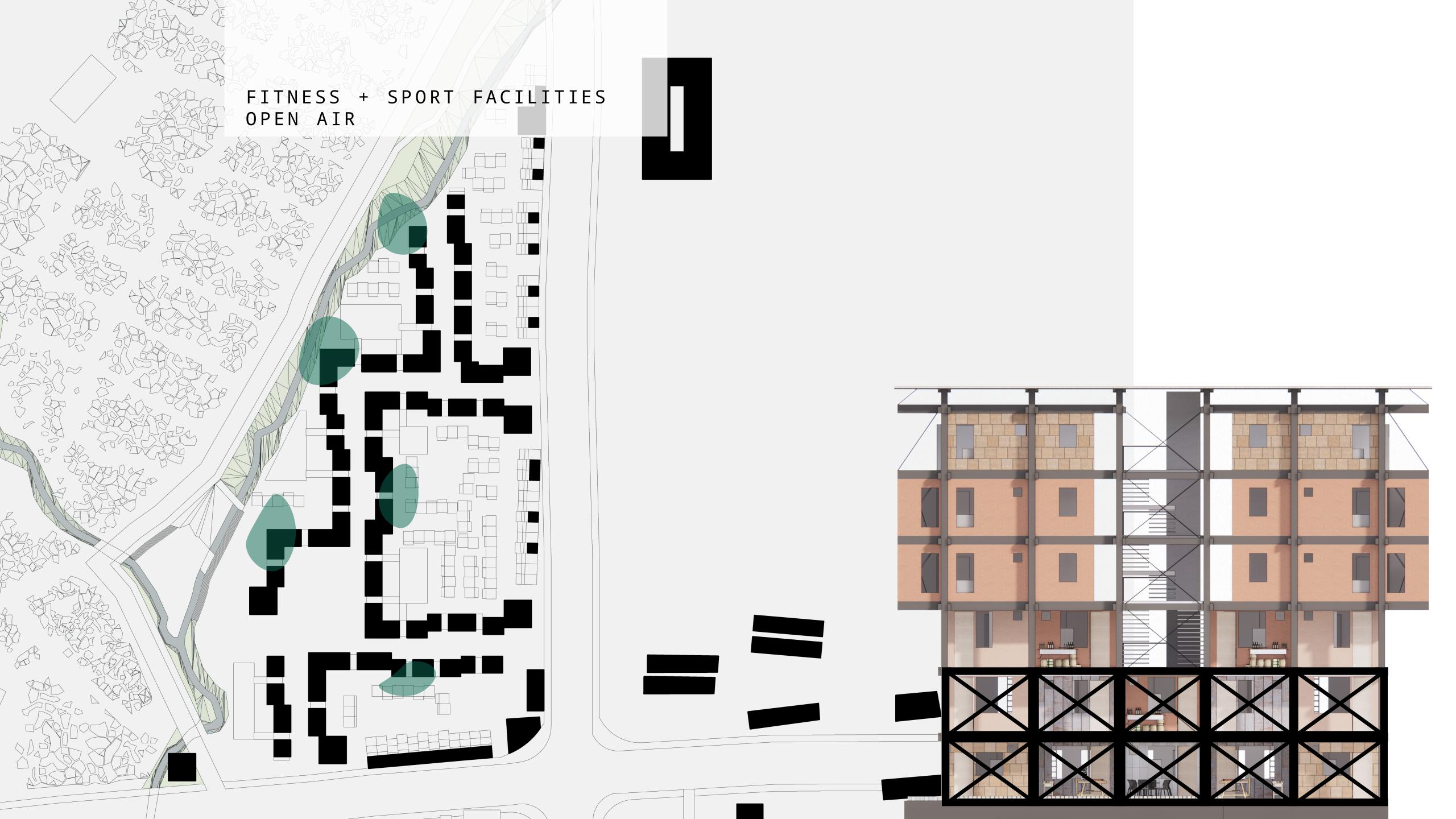
open air (outside)

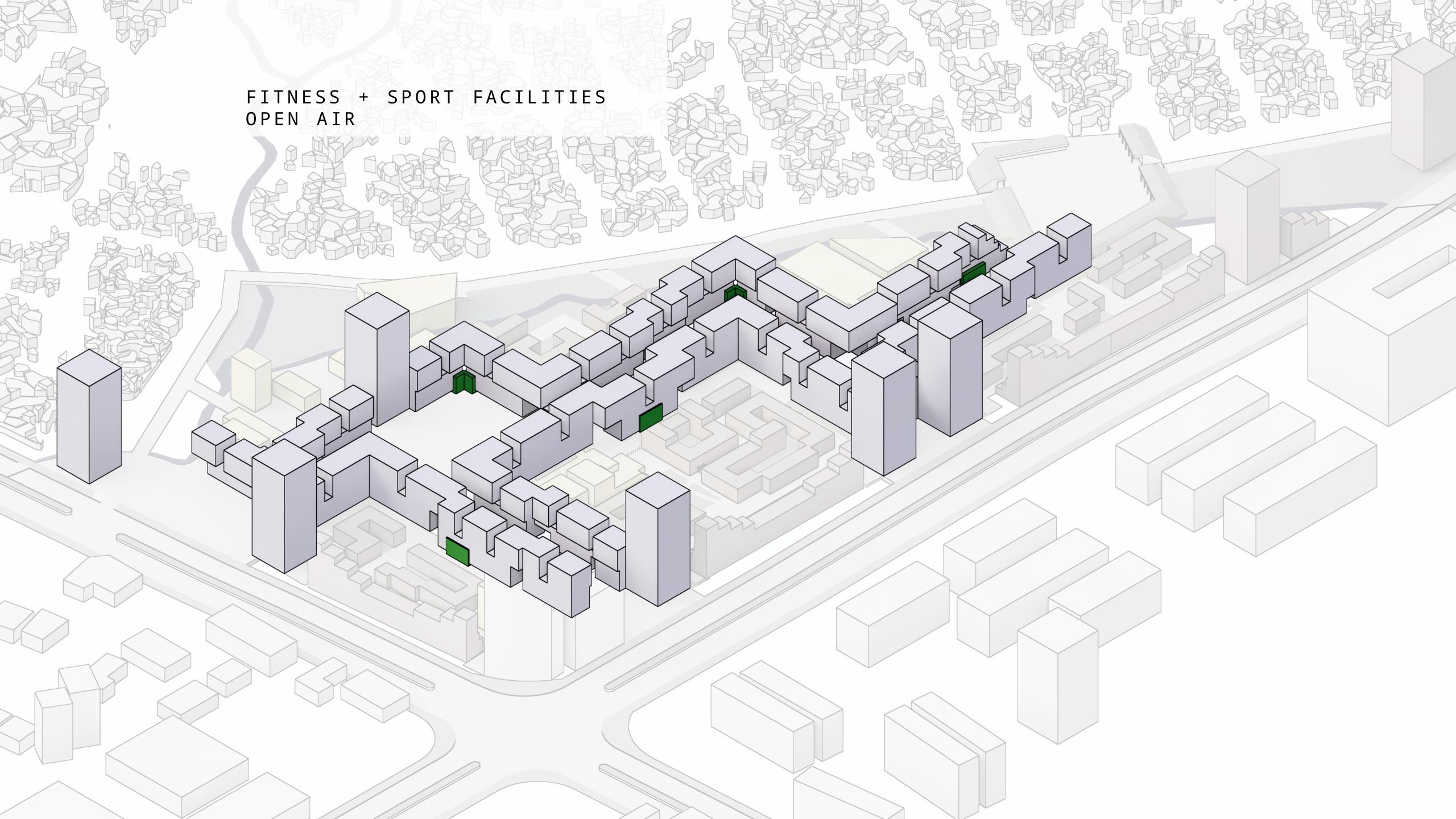
versus

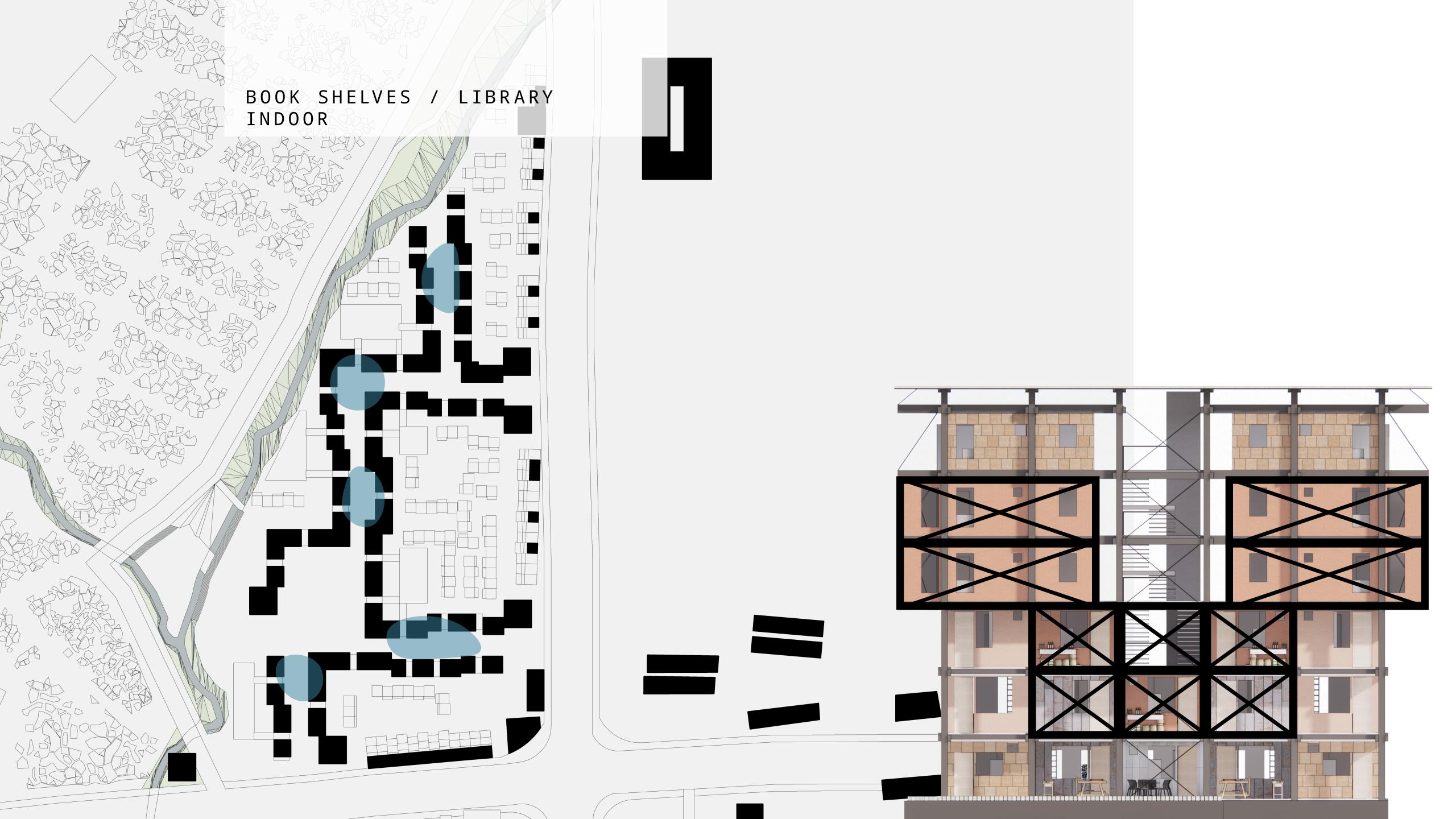
closed (inside)

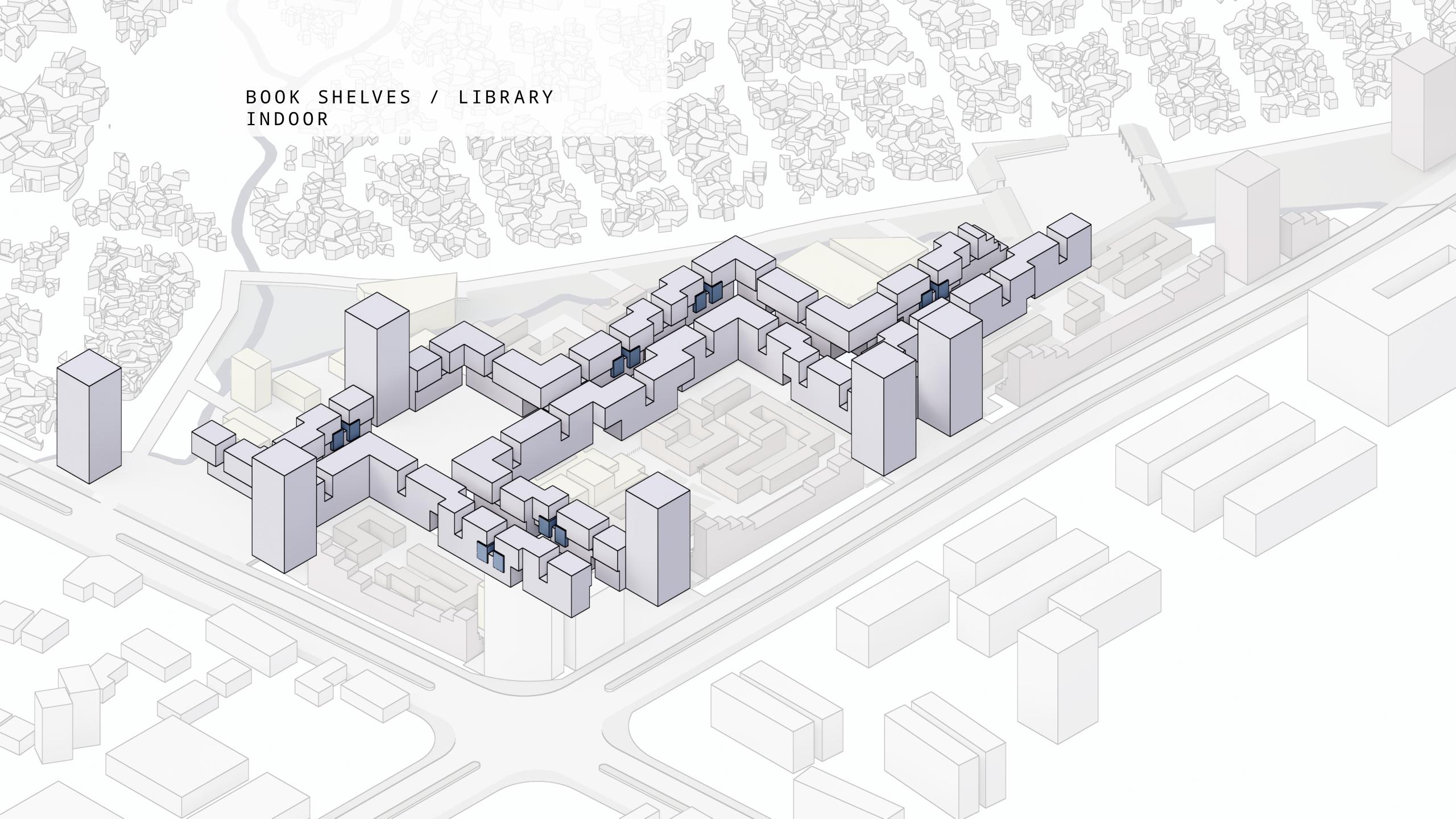












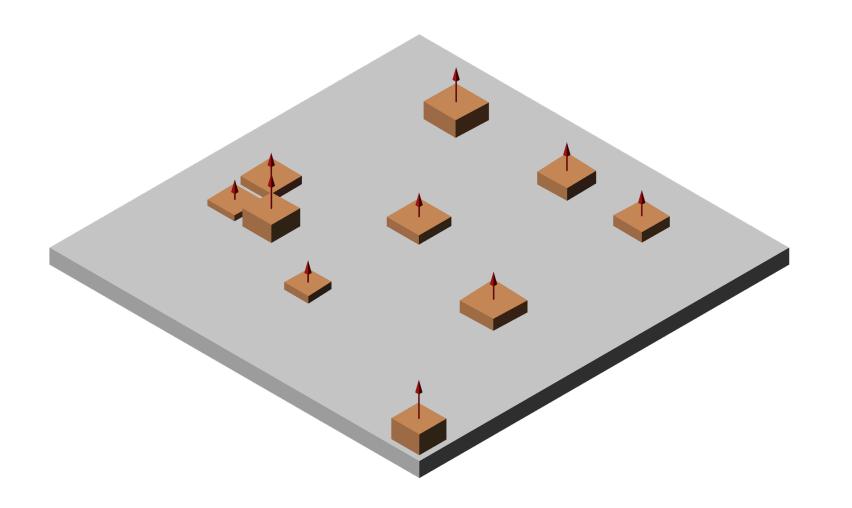


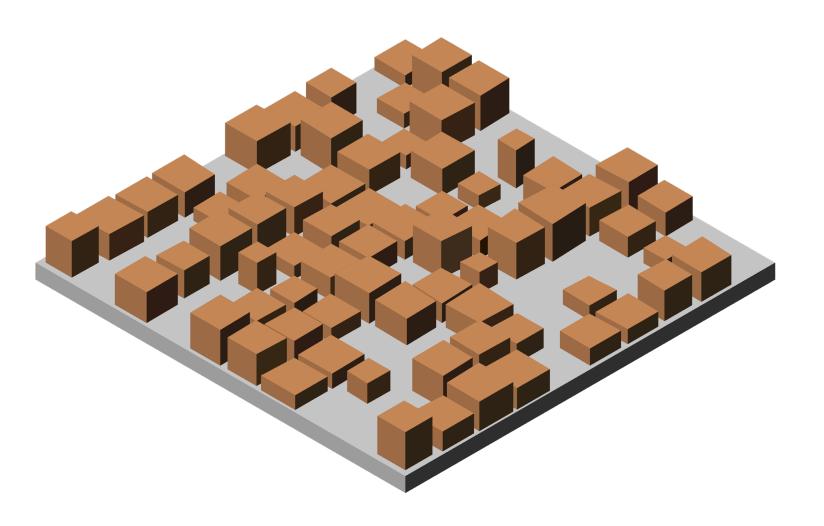


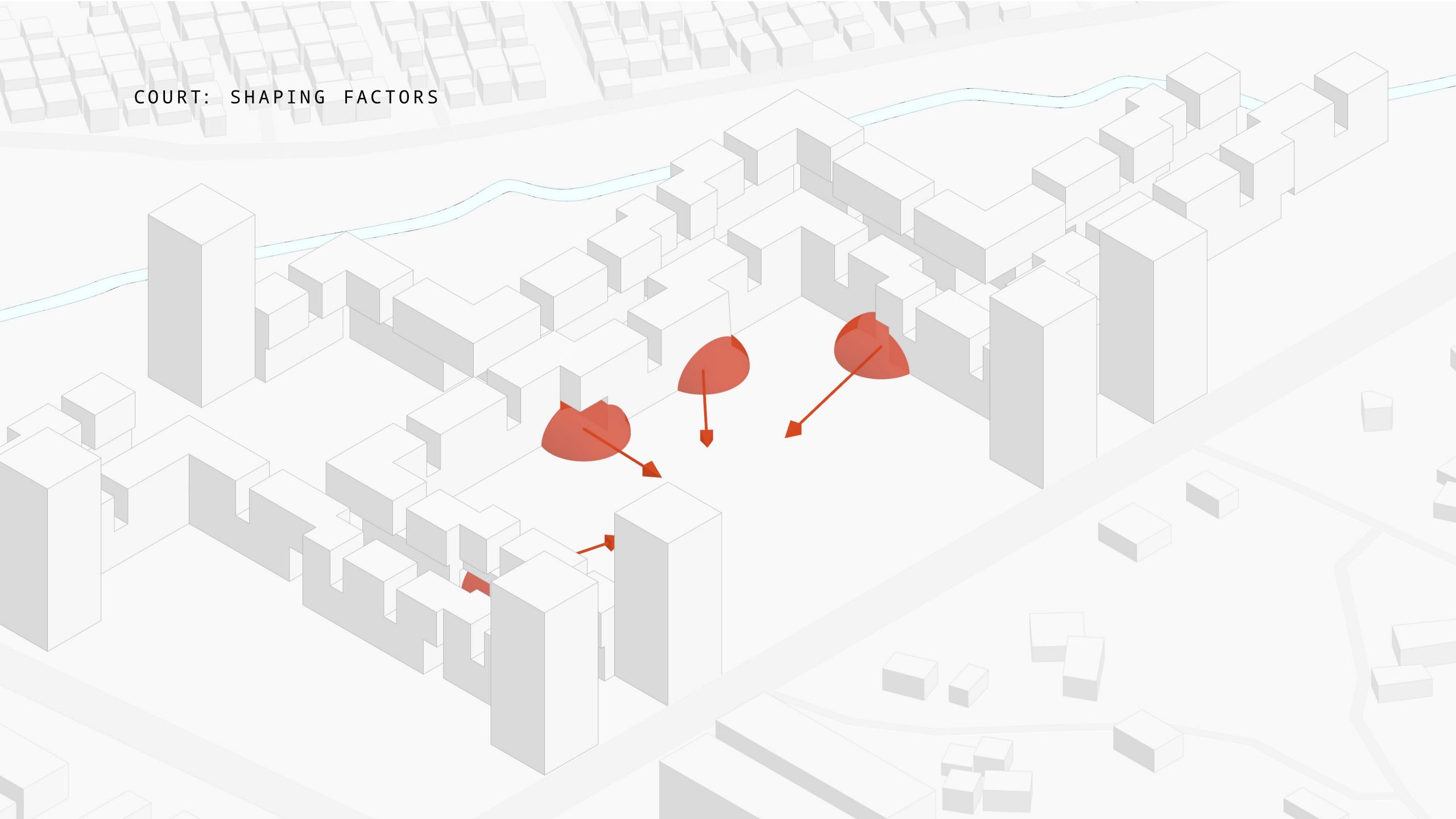
MASTERPLAN - NEXT ELEMENT

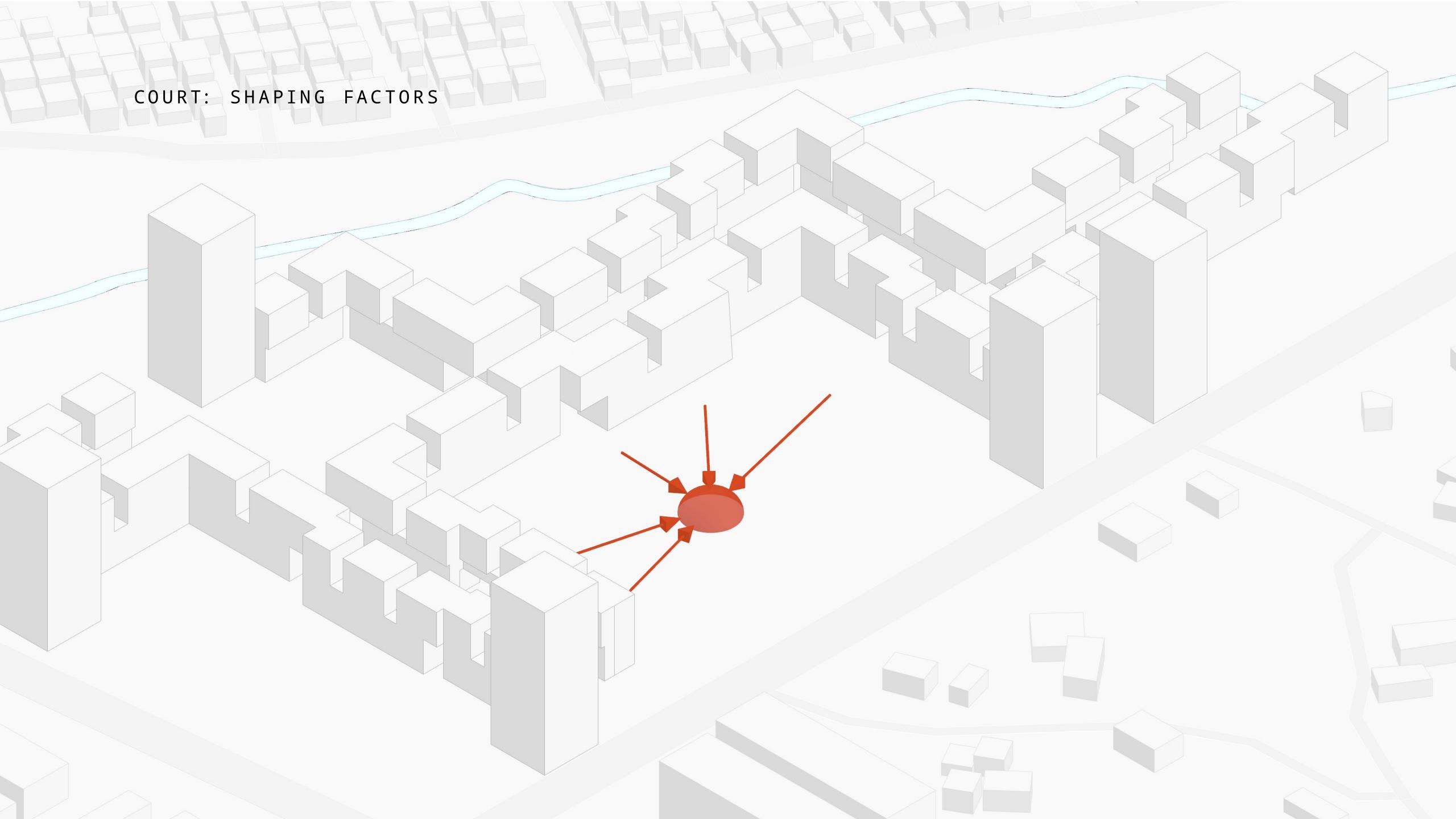
space for courtyards

COURT: PRINCIPLE

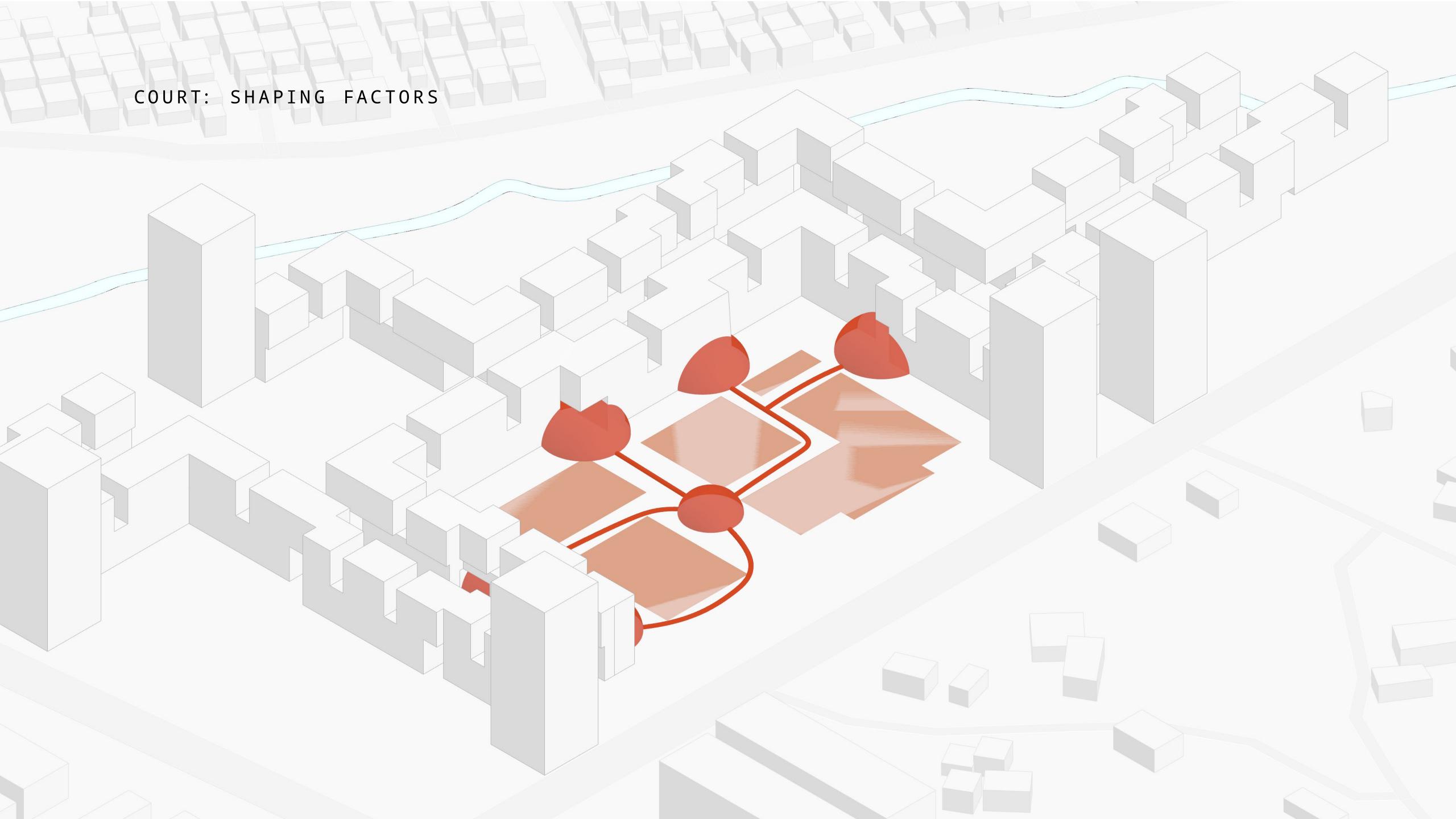




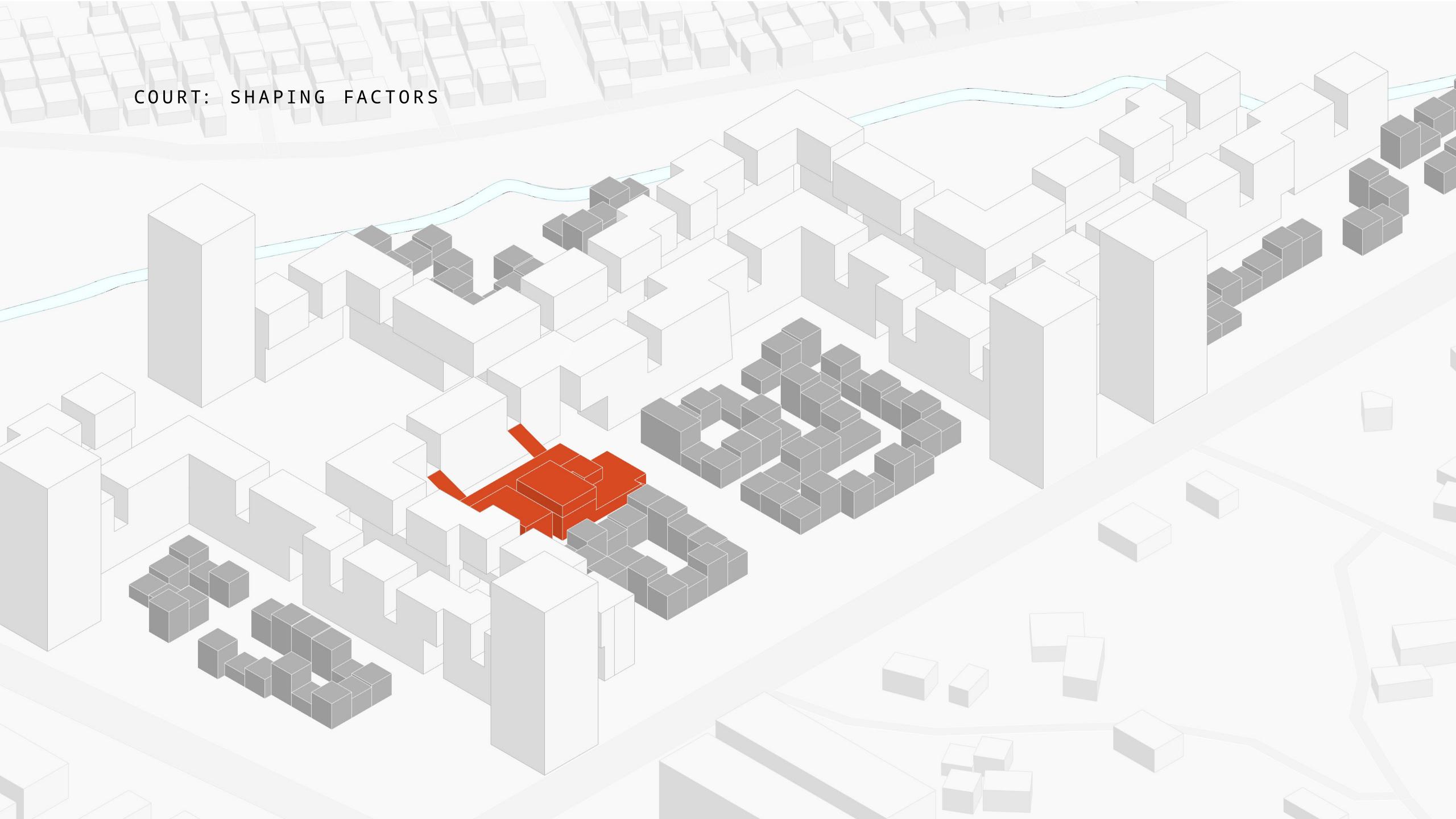




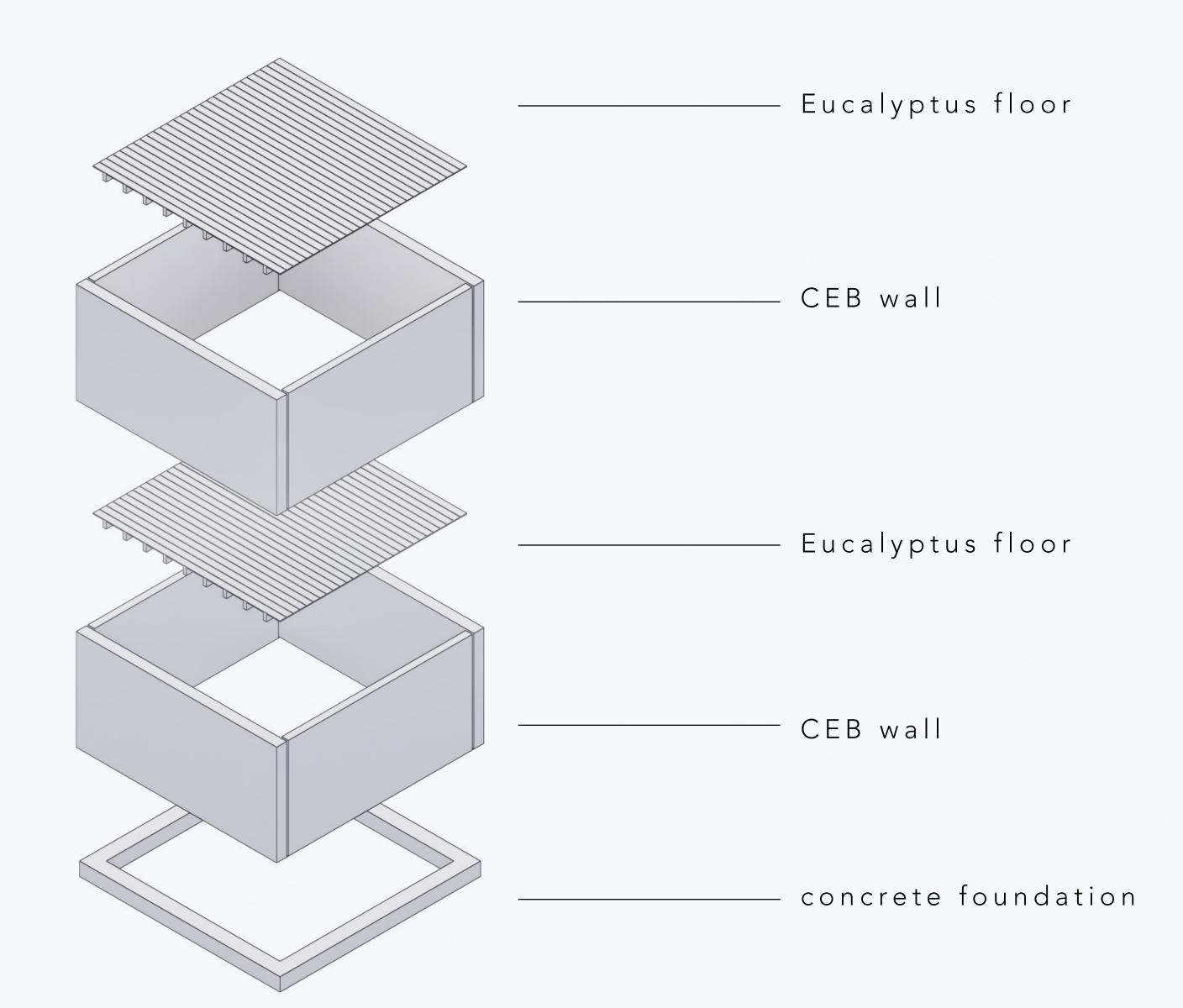








4 COURT



vertical flexible direction









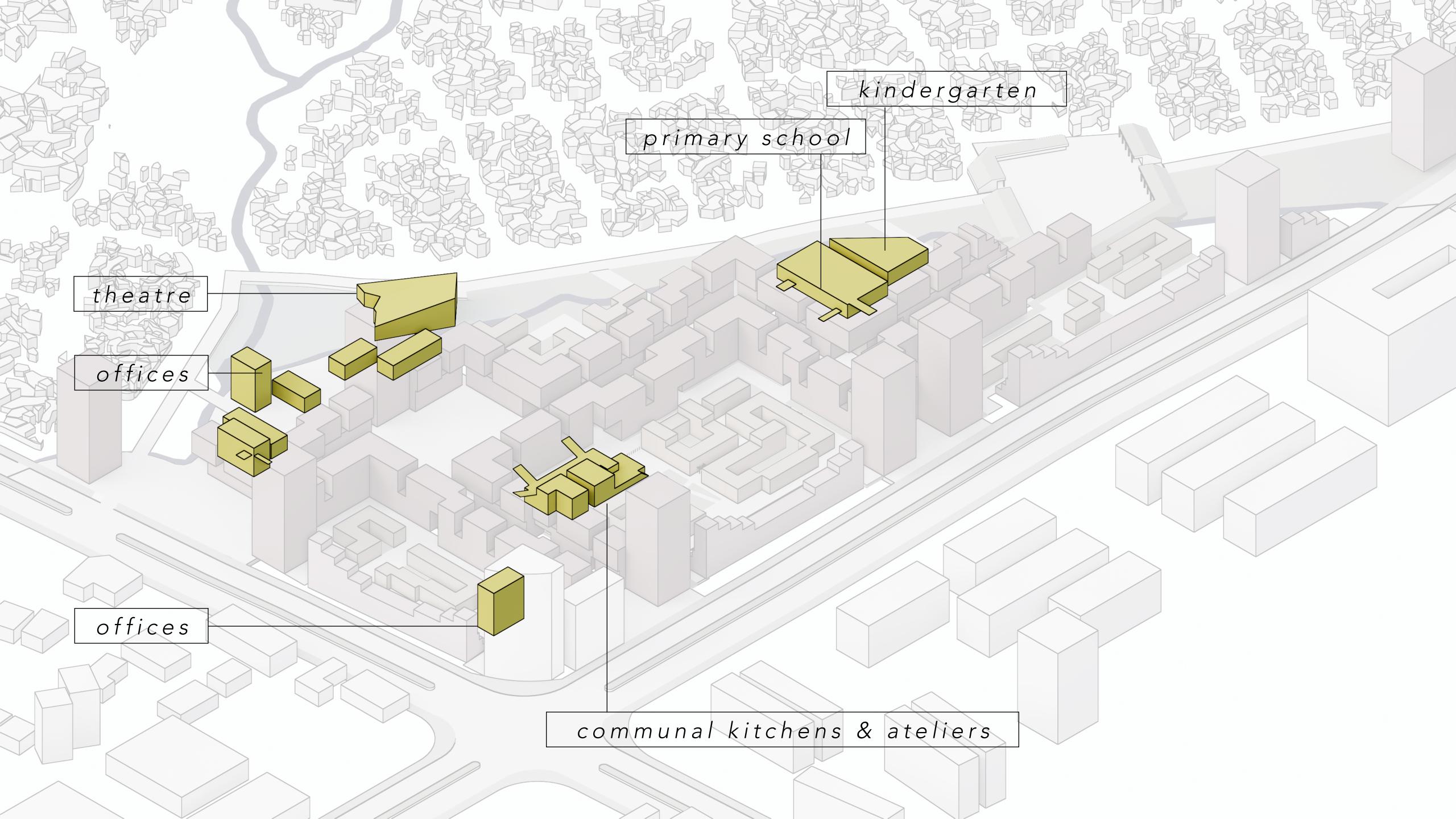


MASTERPLAN - UP NEXT

adding amenities

AMENITIES

elementary school kindergarten church/chapel police station theatre library garden & parks cinema	needs large space close to active street	needs small space close to active street	sports centre/fitness post office drugstore/pharmacy doctors office garage ateliers community space clubs
festivities open air theatre	needs large space open air - central square	needs small space at active street in building block	café/restaurants galleries/workshops garages library/book shelves computer work place (wifi) bakery butcher clubs





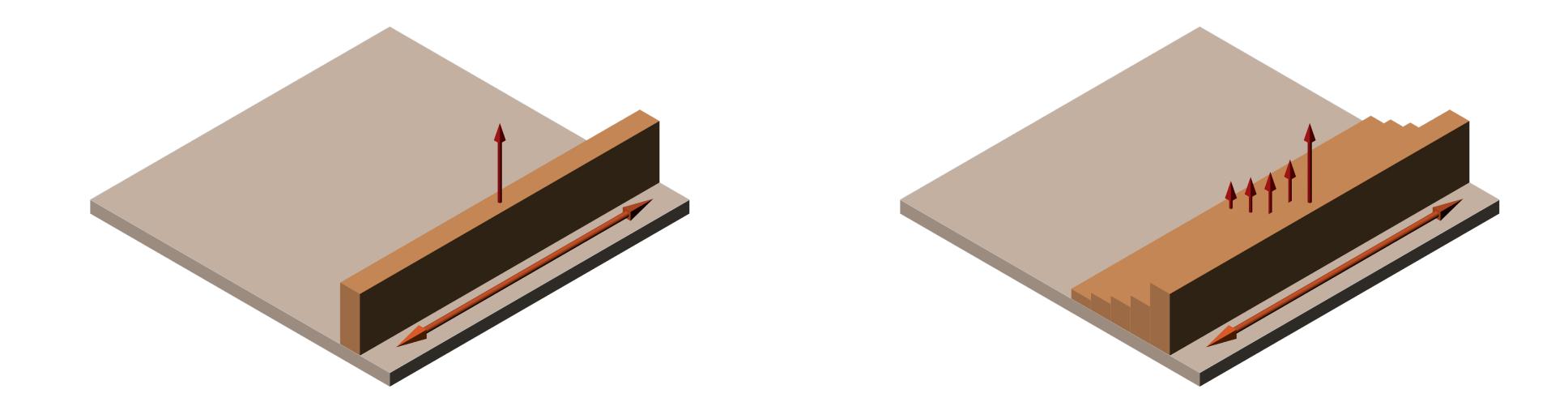
MASTERPLAN - CURRENT STATE

courtyards interact and feed

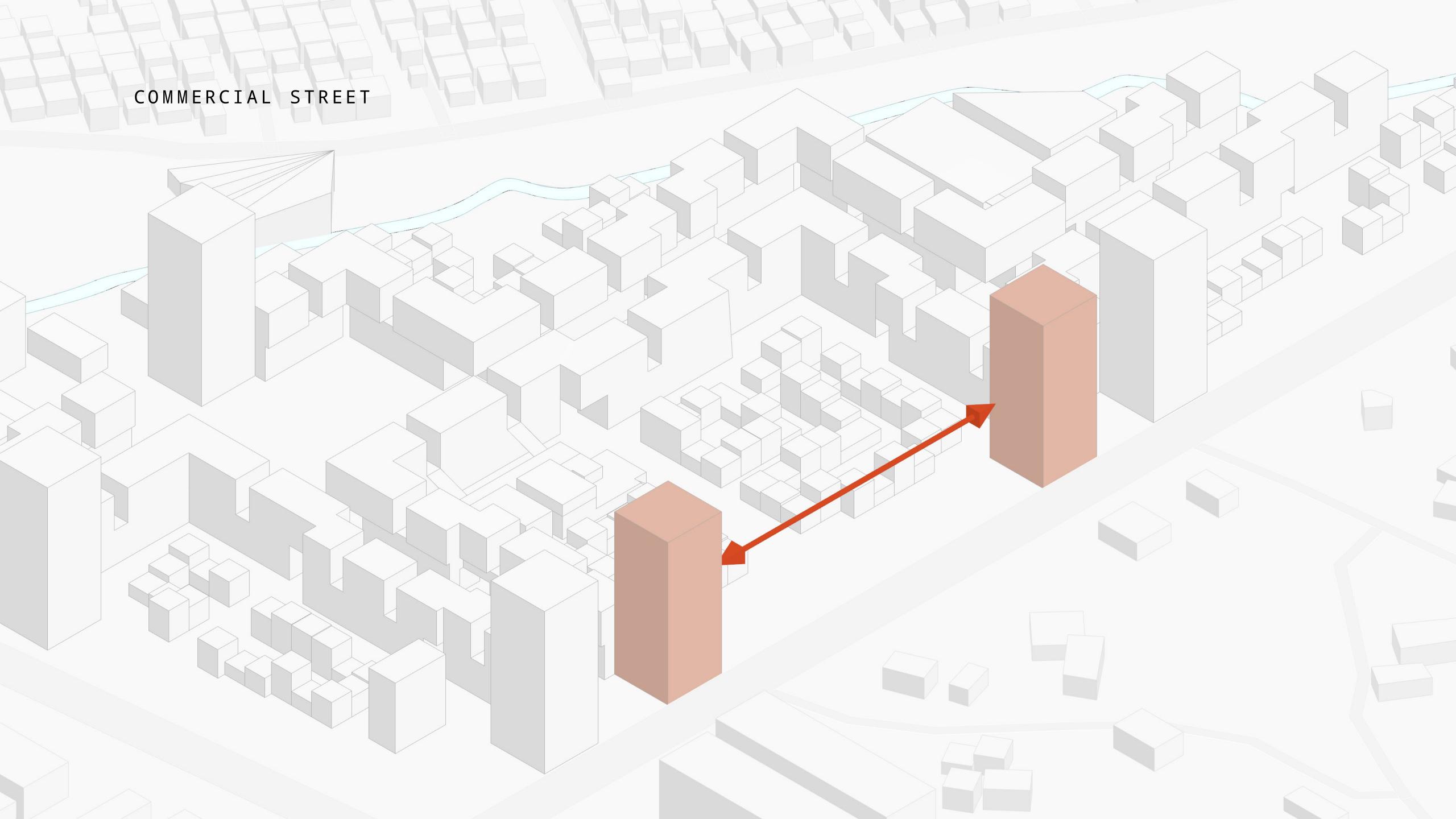
MASTERPLAN - UP NEXT

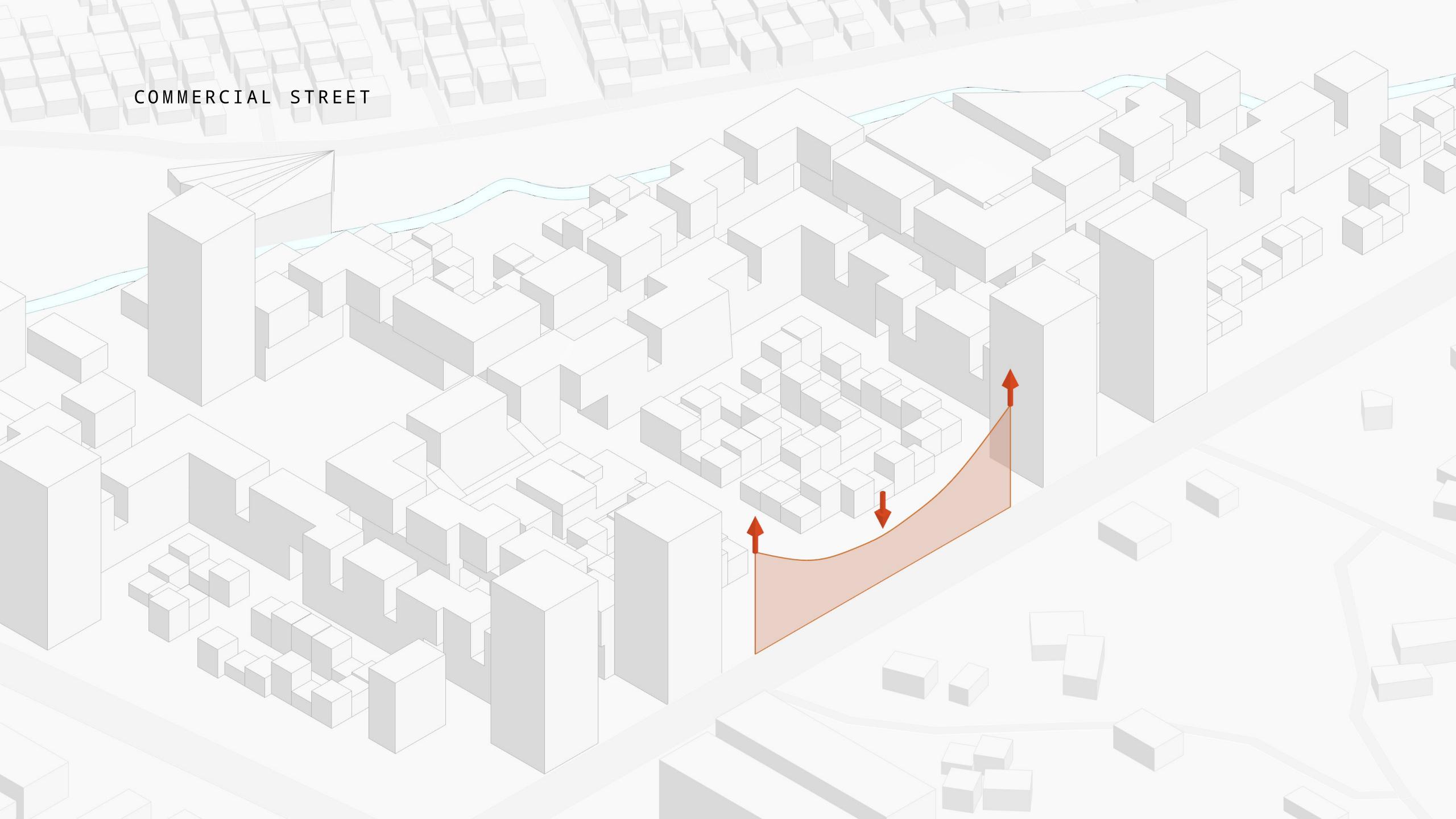
connecting to the commercial street

COMMERCIAL STREET: PRINCIPLE



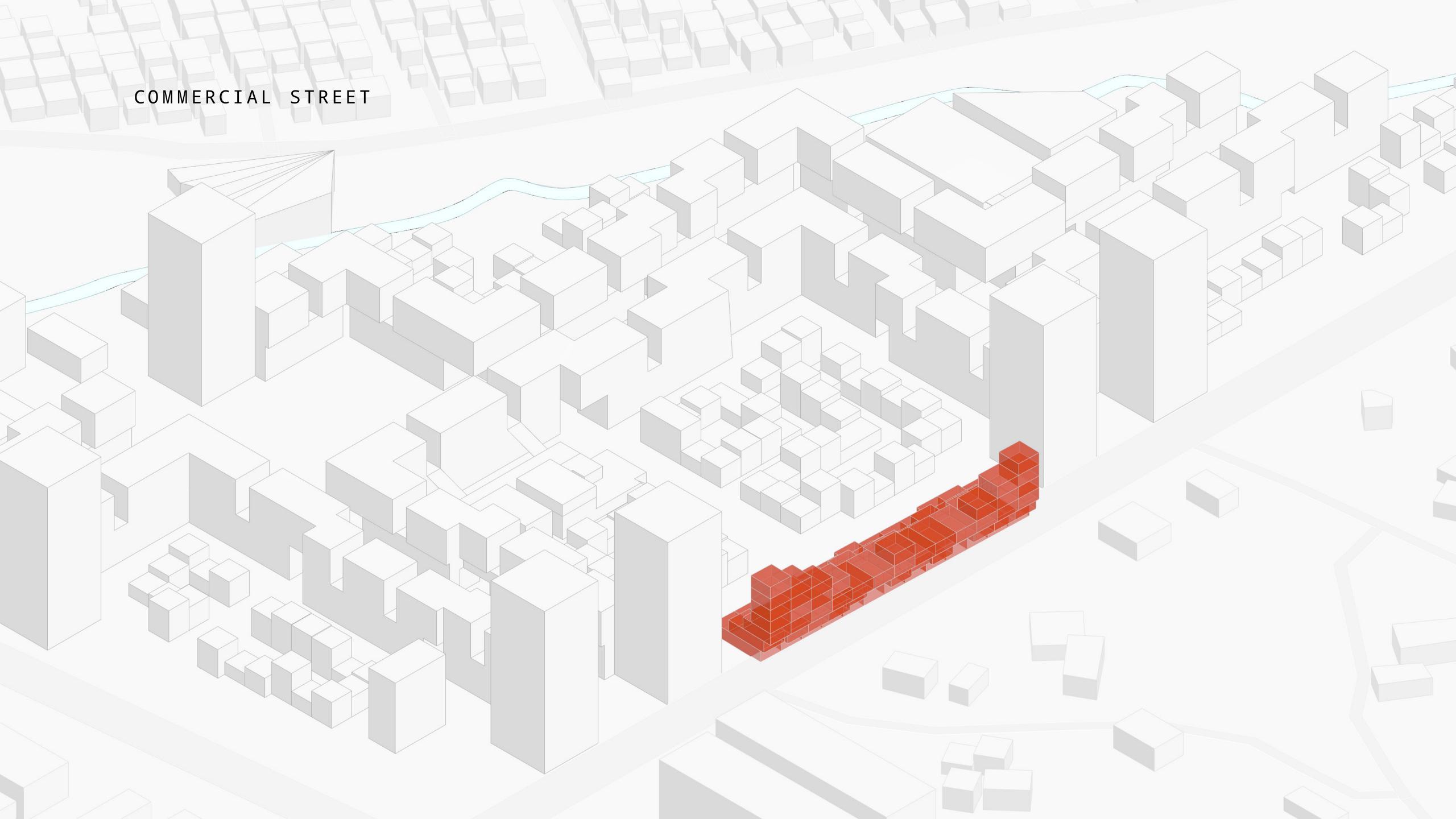


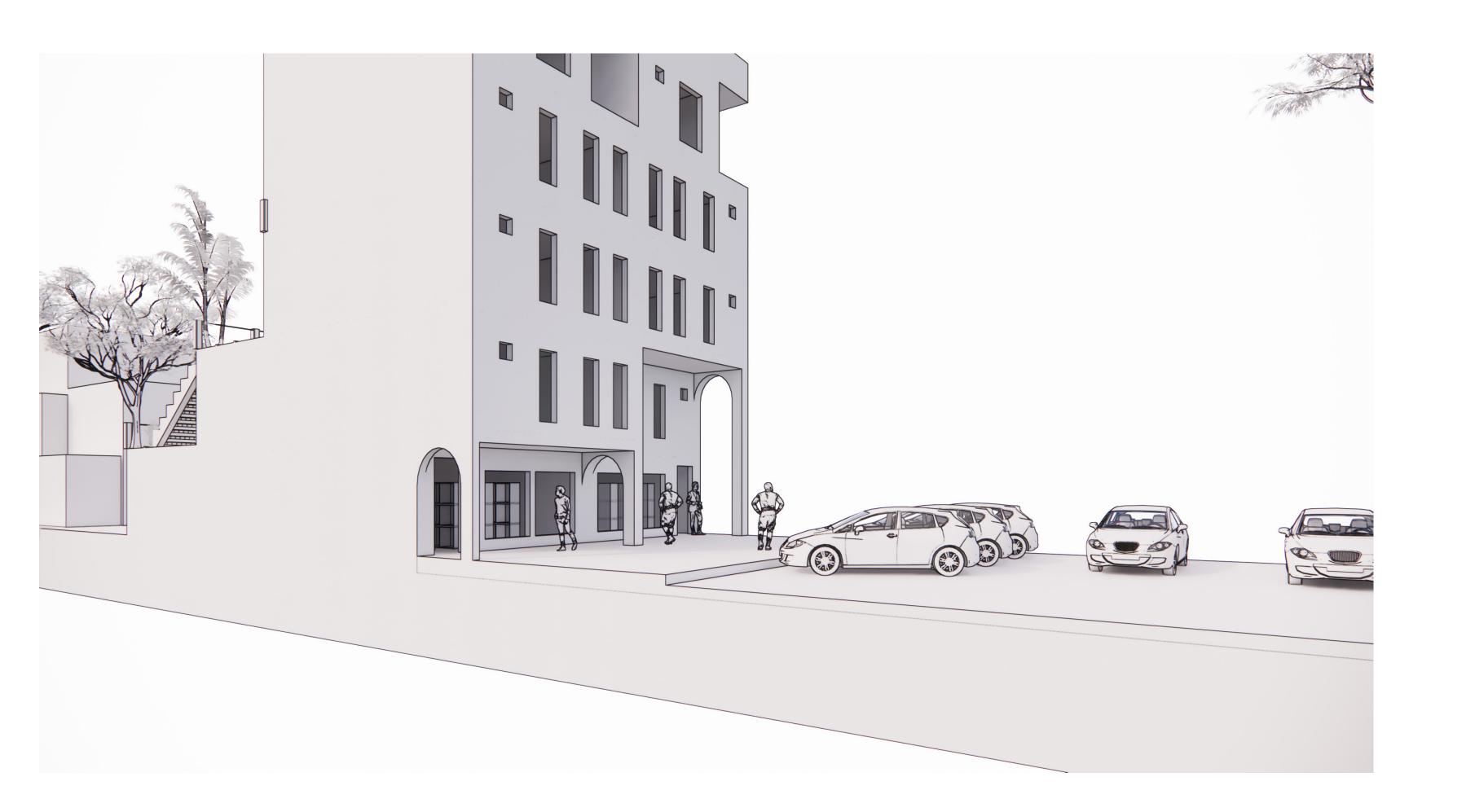






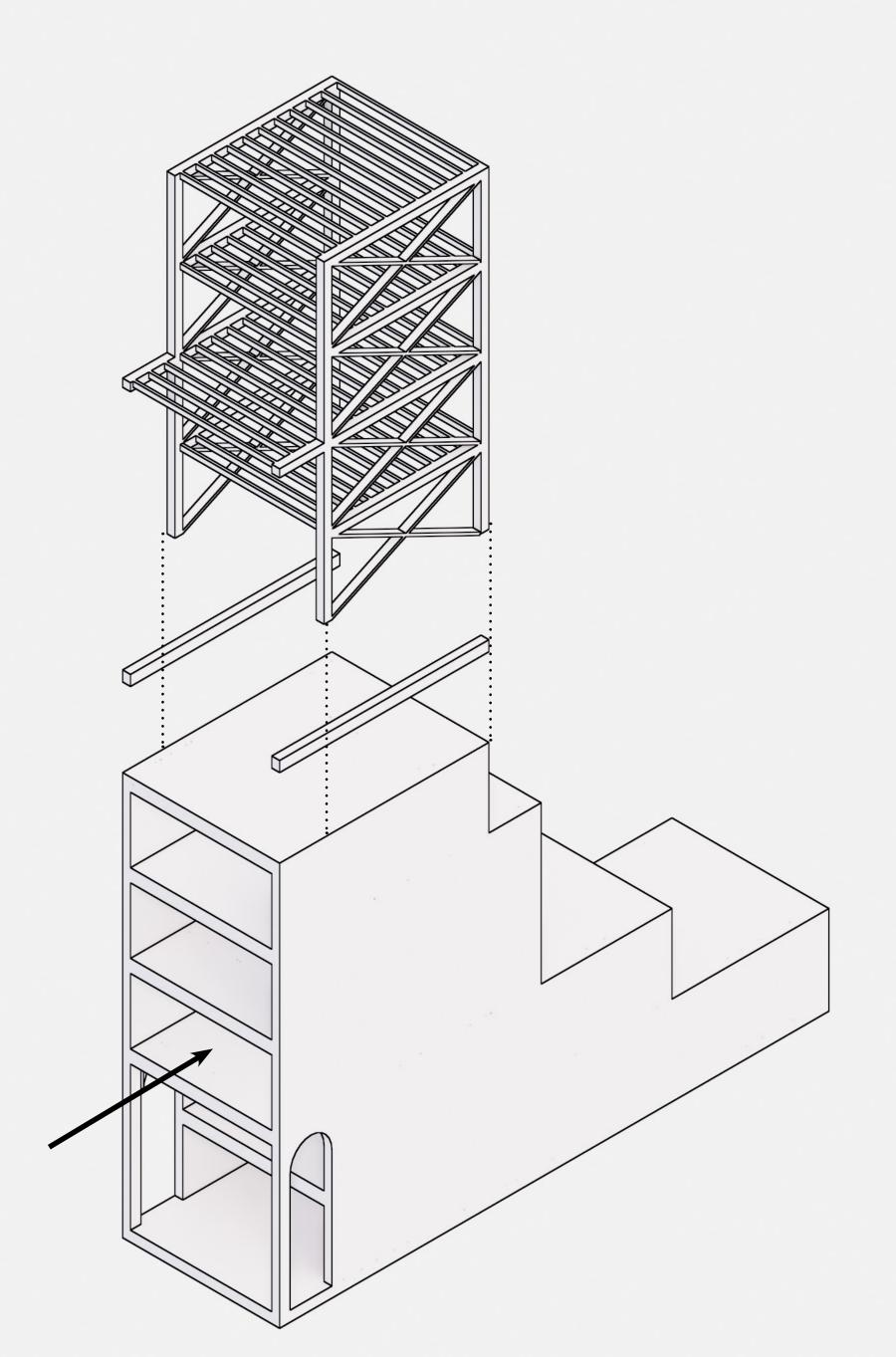




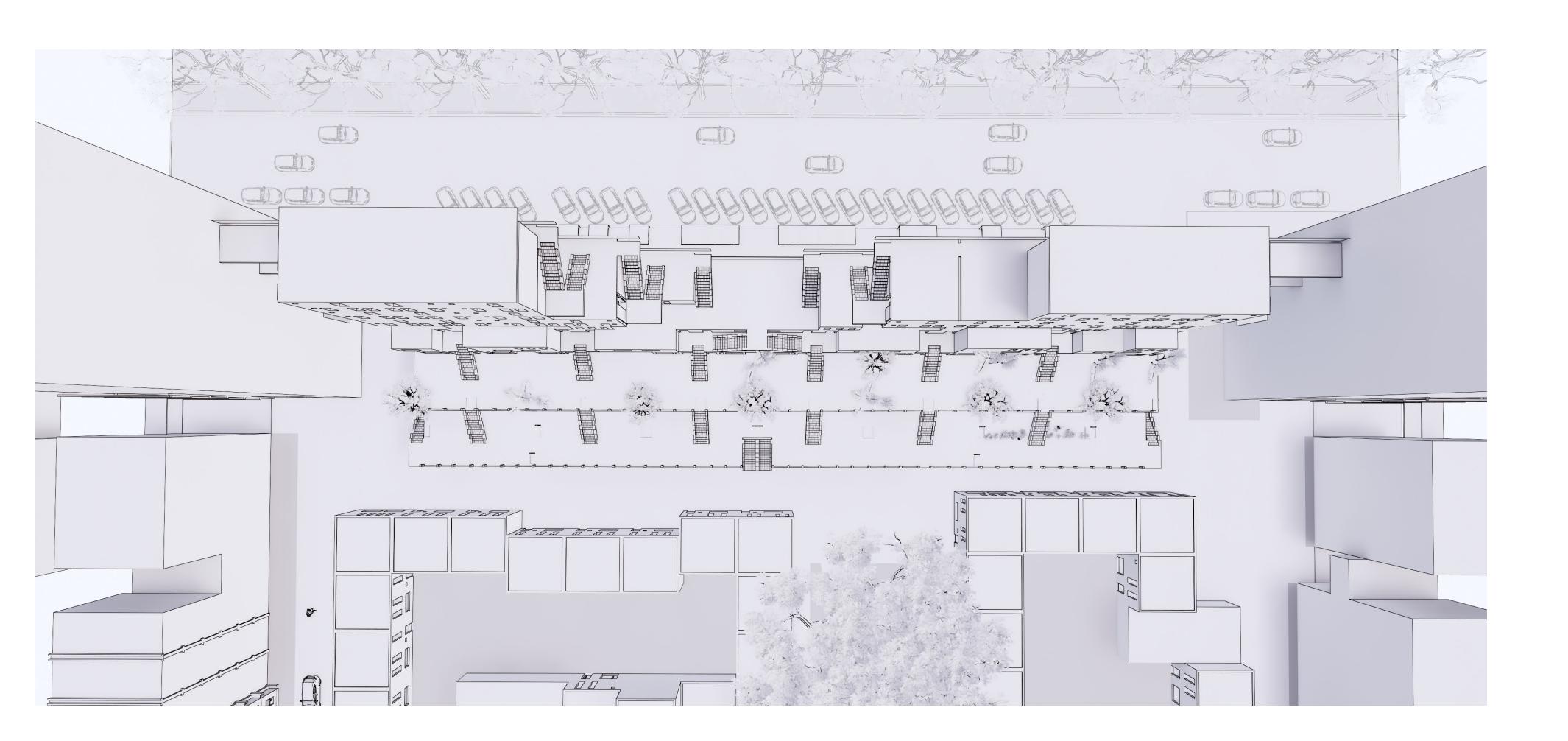








horizontal flexible direction





MASTERPLAN - CURRENT STATE

commercial street facilitates

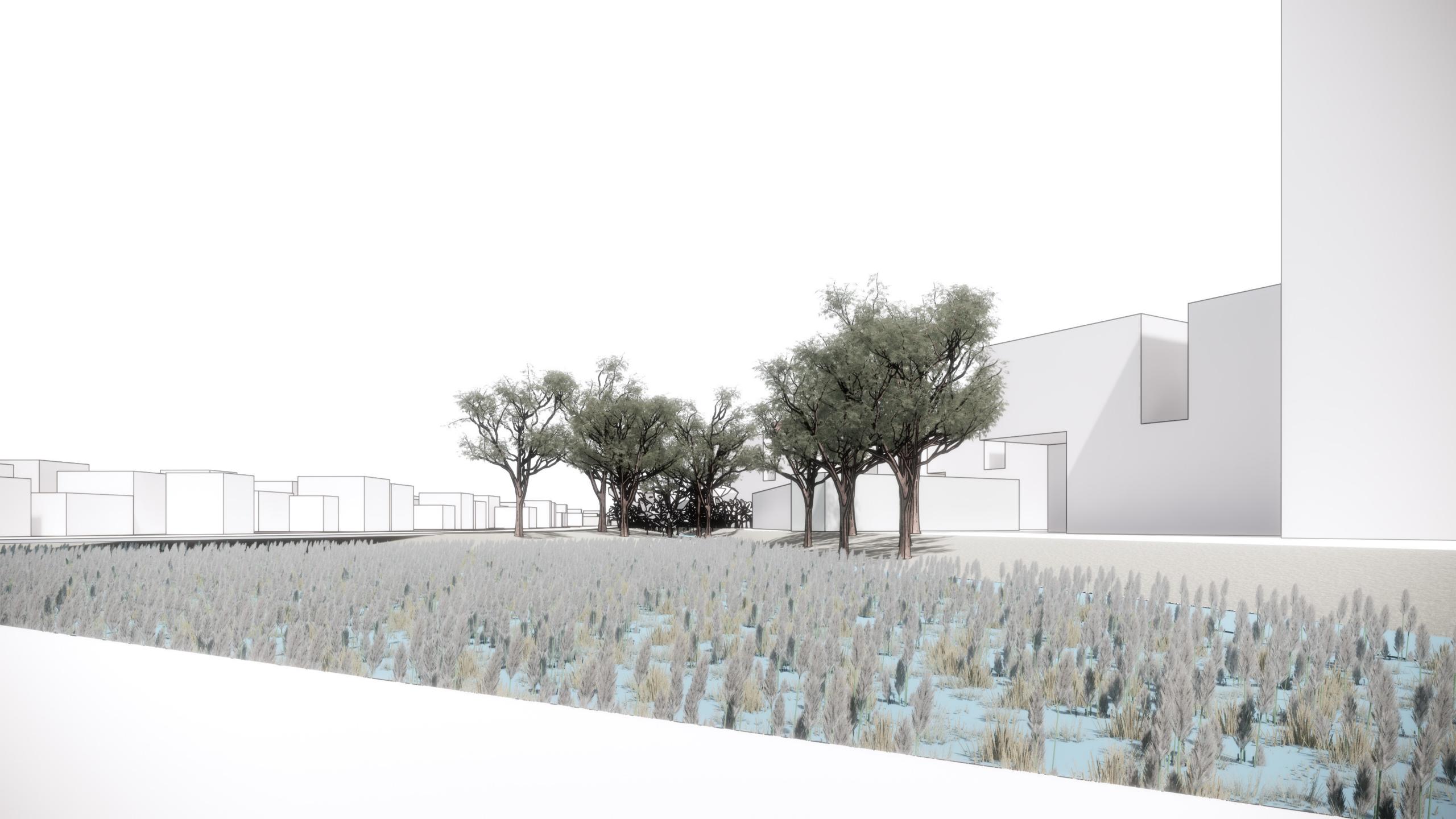
MASTERPLAN - UP NEXT

forming the green zone





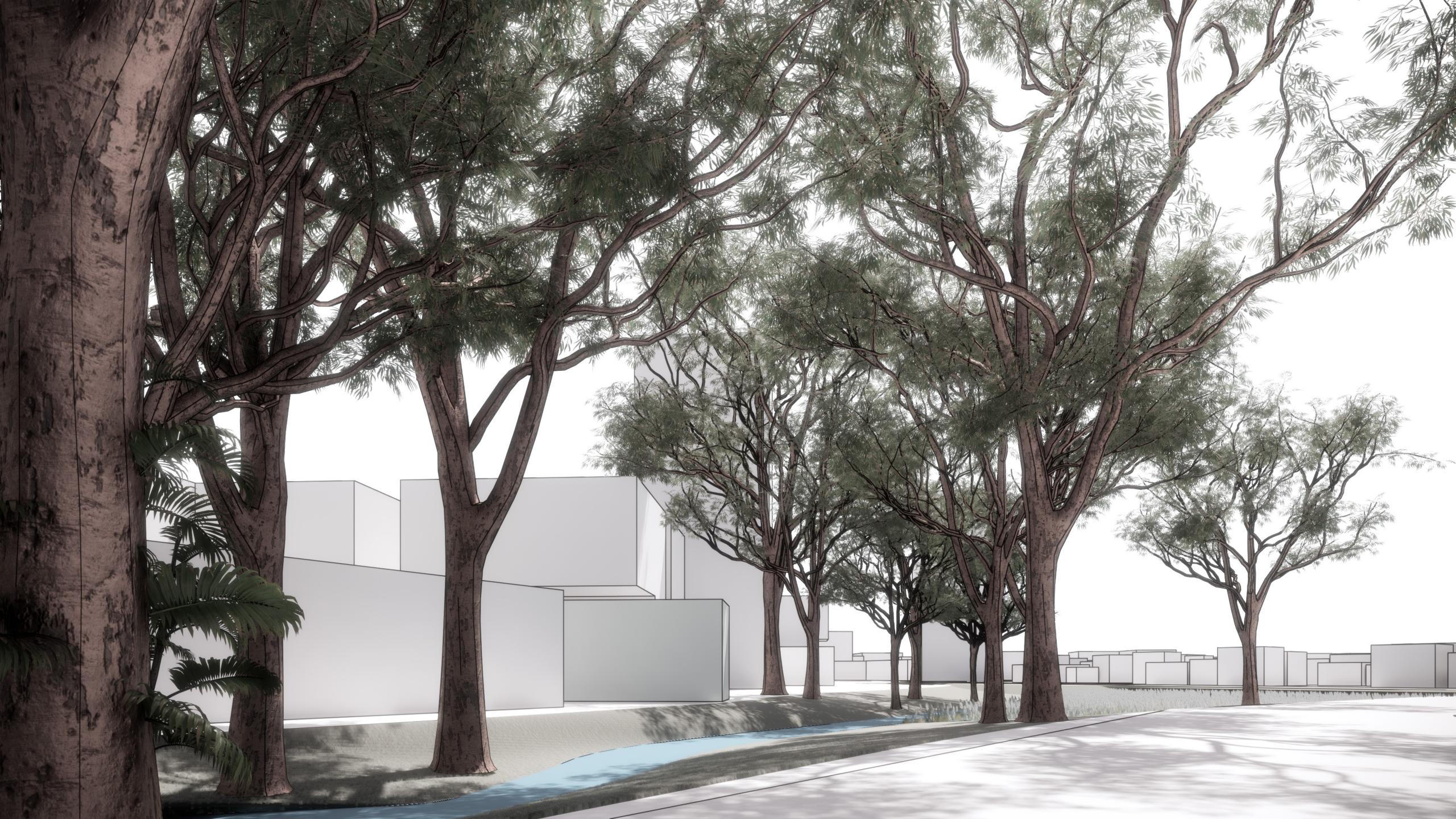






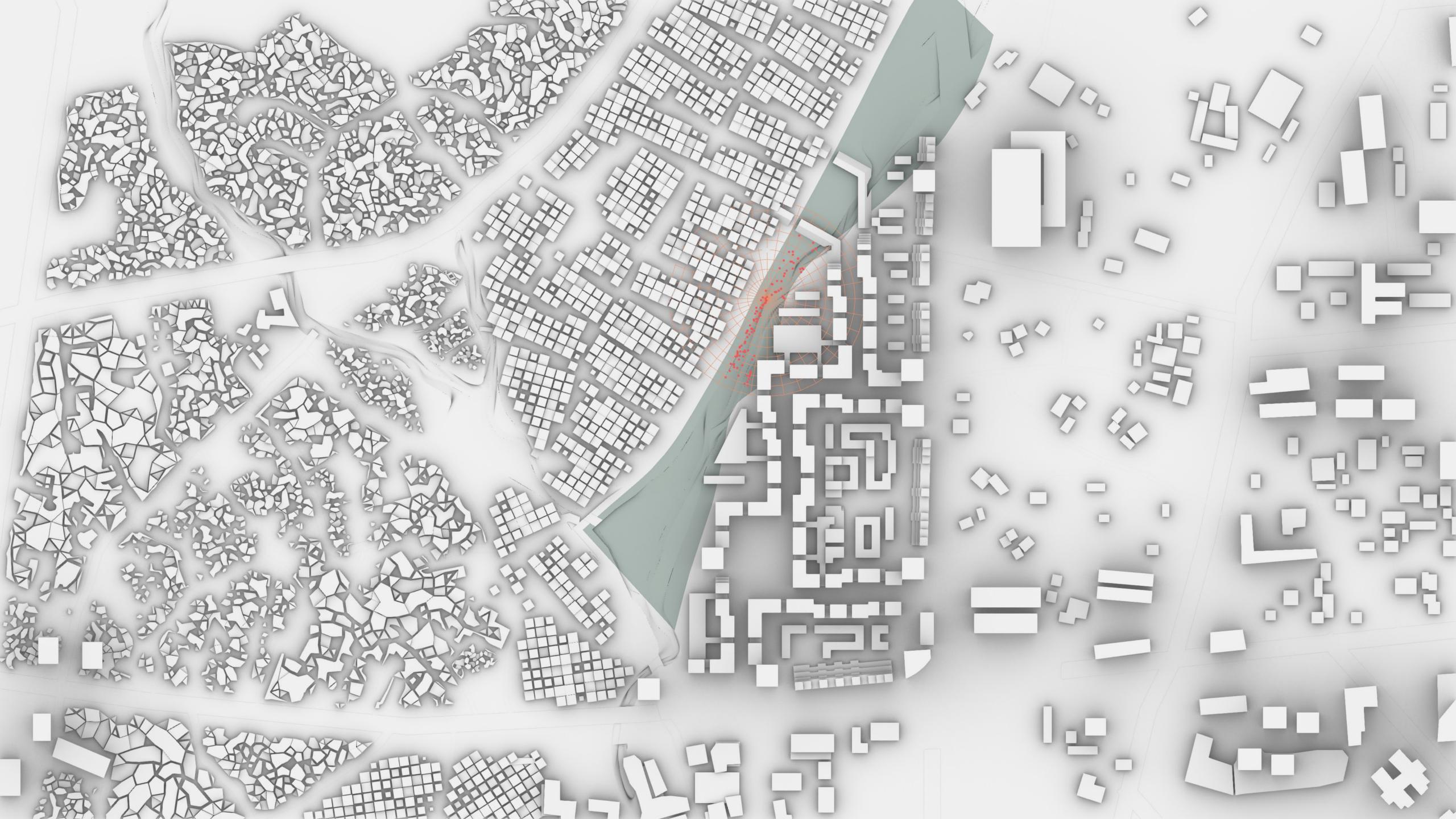




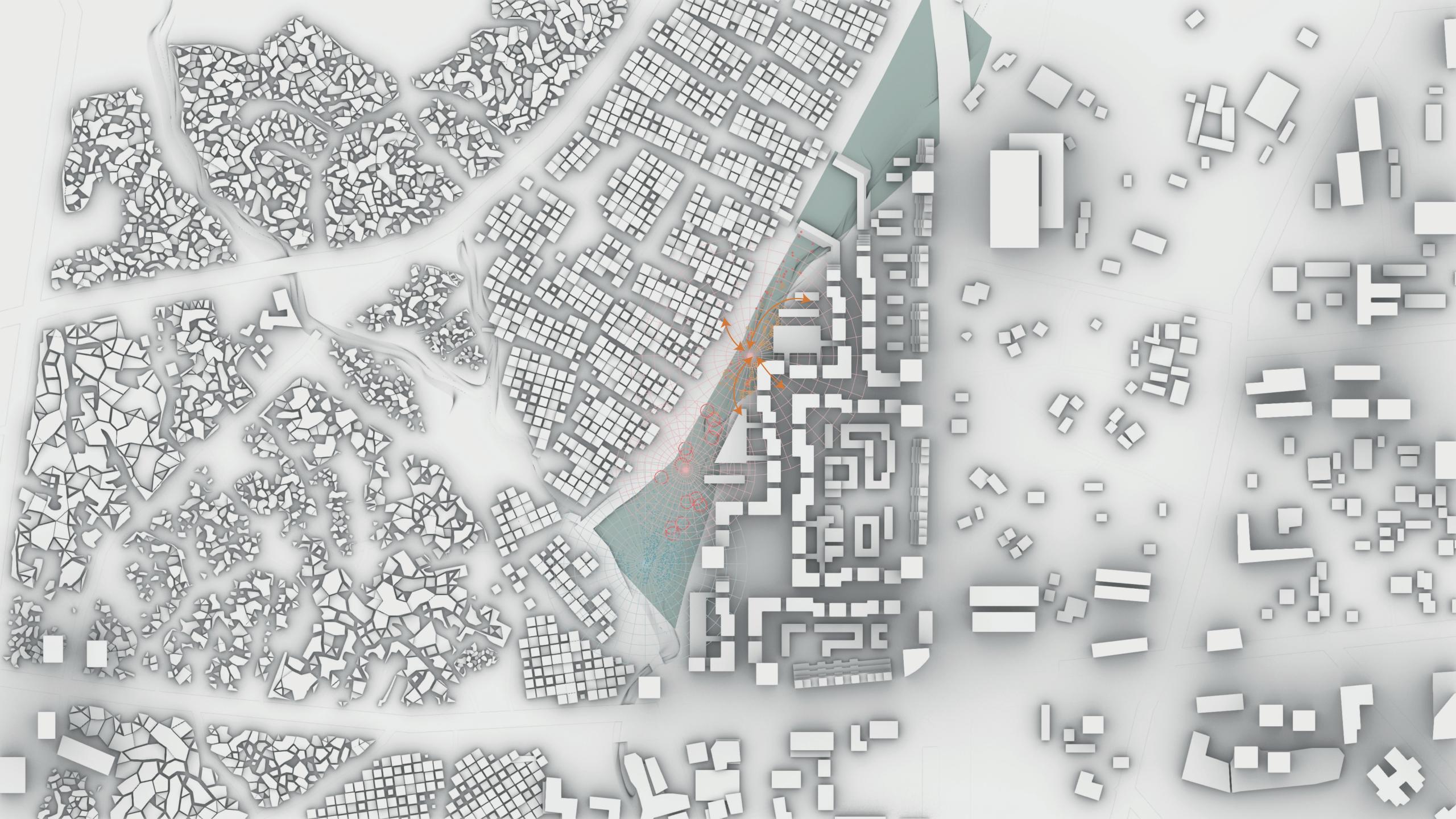


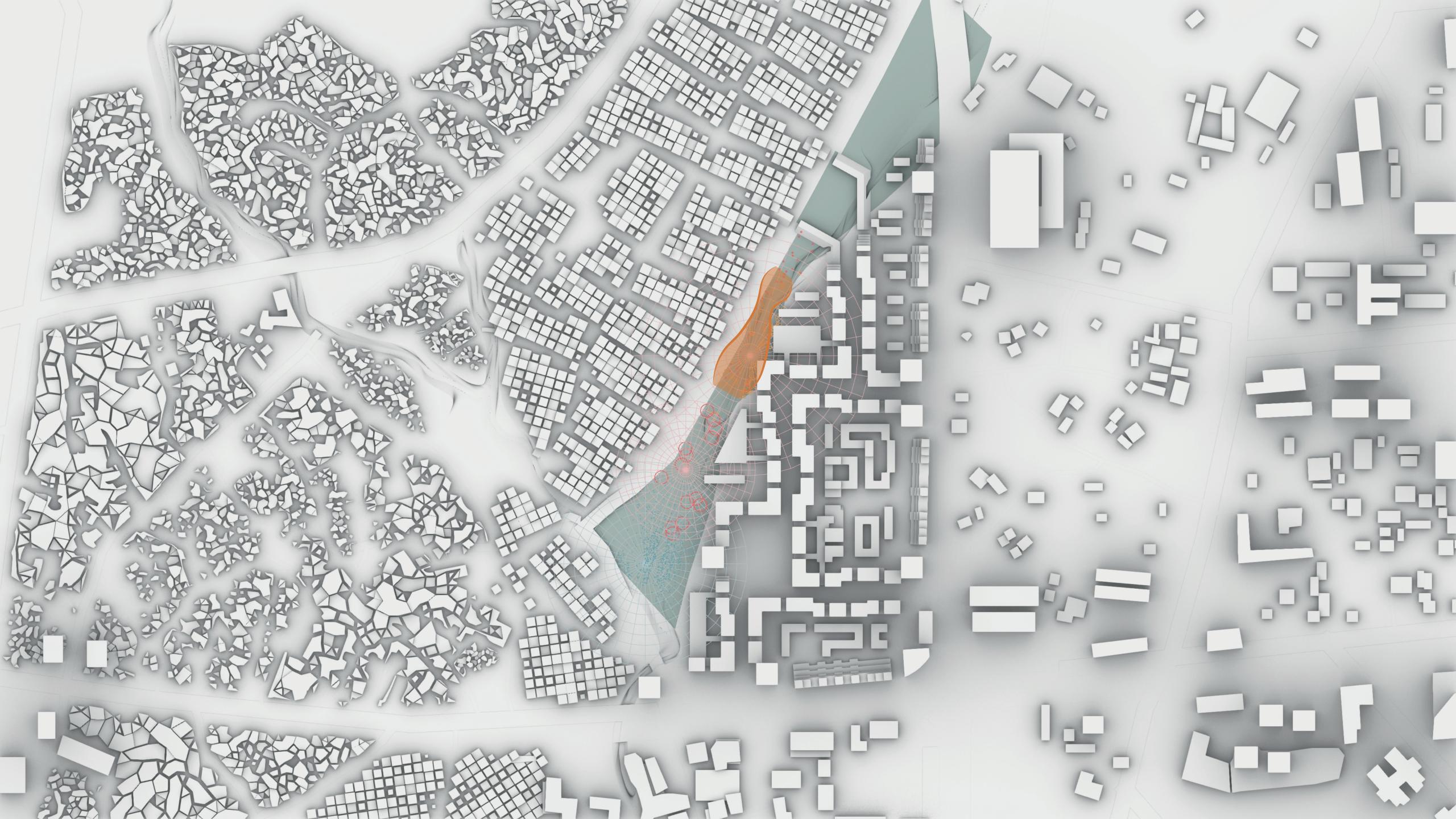












MASTERPLAN - CURRENT STATE

green zone for all



HOUSING TYPOLOGIES

PUBLIC SPACE PLAN

level O

PUBLIC SPACE PLAN

level 3







input









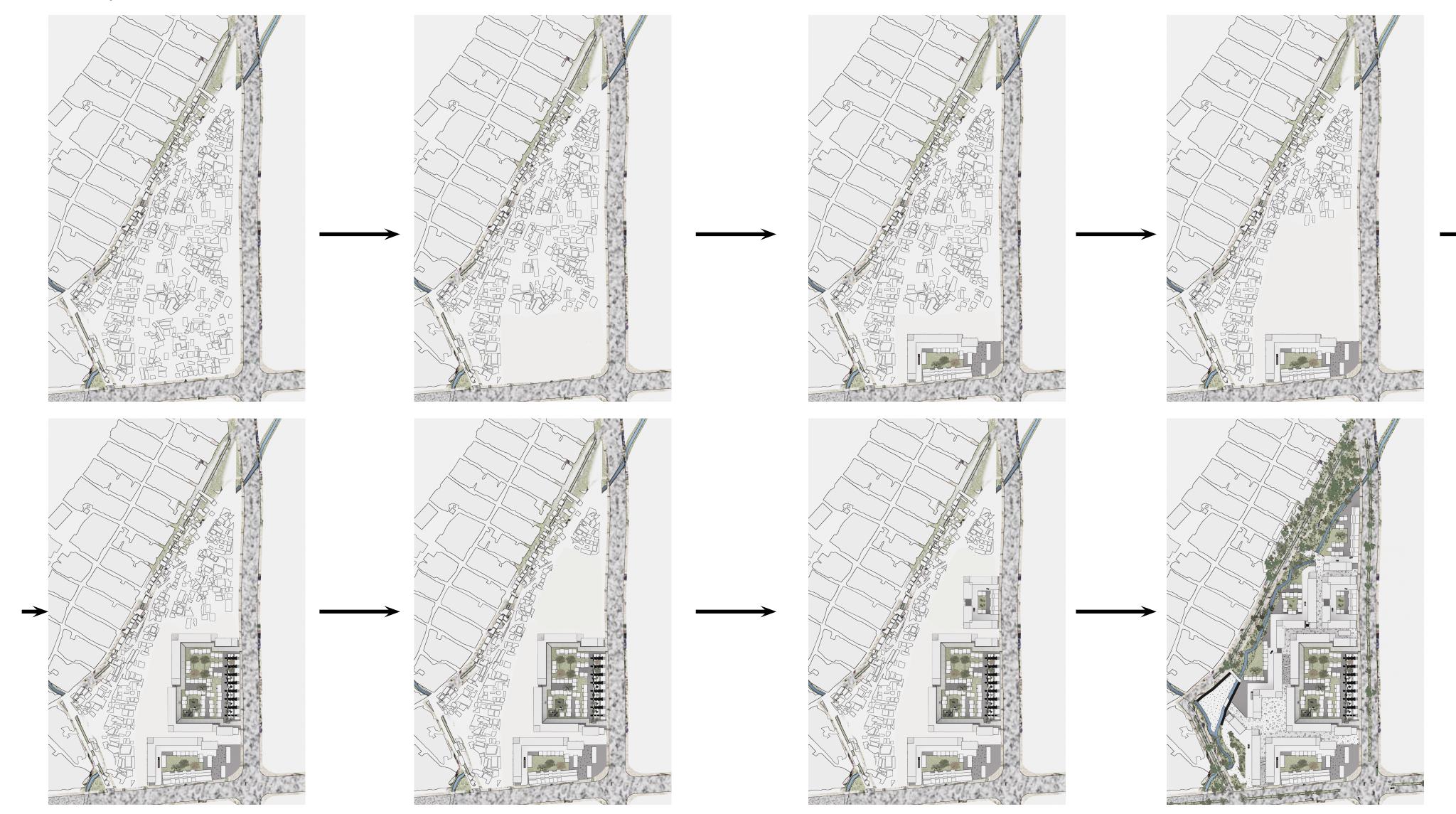


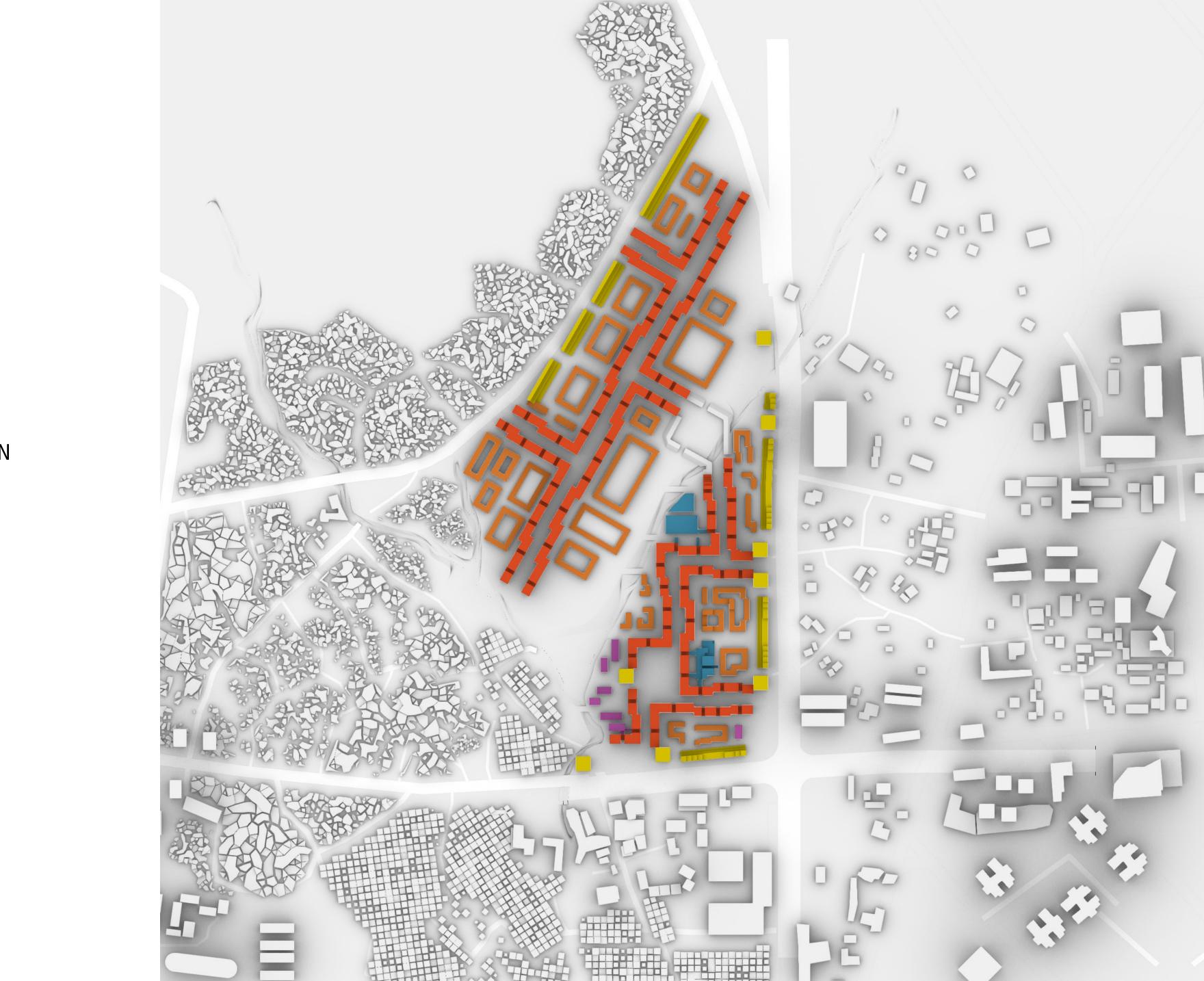
input



PHASING

cluster by cluster





MASTERPLAN EXTENSION



MASTERPLAN EXTENSION

MASTERPLAN

points of interest



