

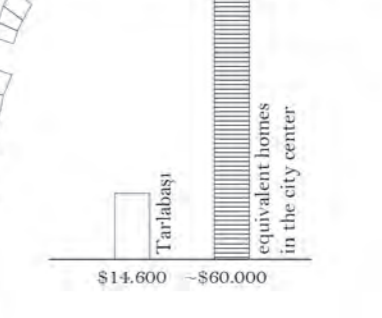
RENT GAP

50 m² \$60-\$120 per month
historical buildings

50 m² \$450 per month
gentrified buildings

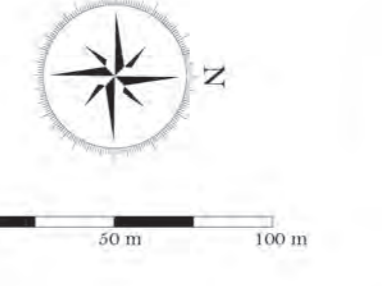
INFORMAL CLUSTER
waste collectors
car reparation

EVICTIION OFFER



LEGENDA

- building
- gentrified buildings
- demolition site gentrification
- informal practice
- Google Maps street view access
- H tourisification
- P police station
- + Tarlabasi community centre



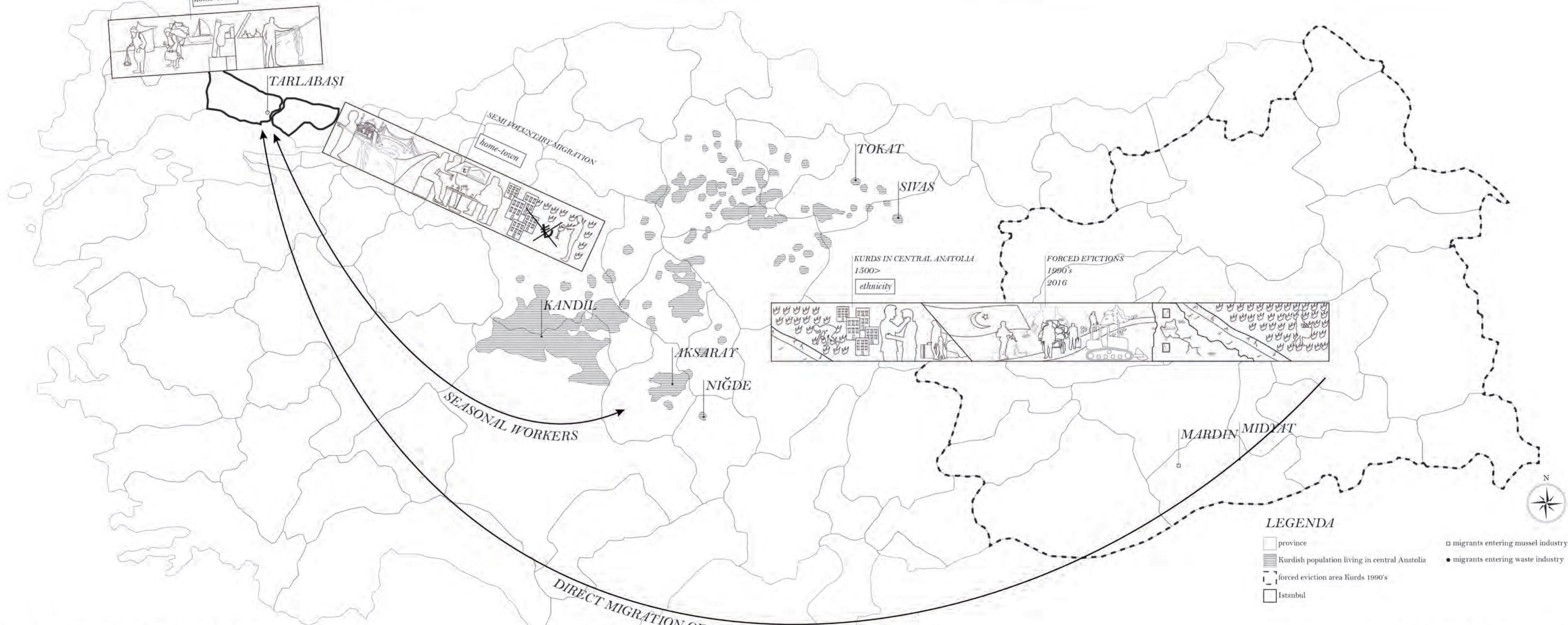
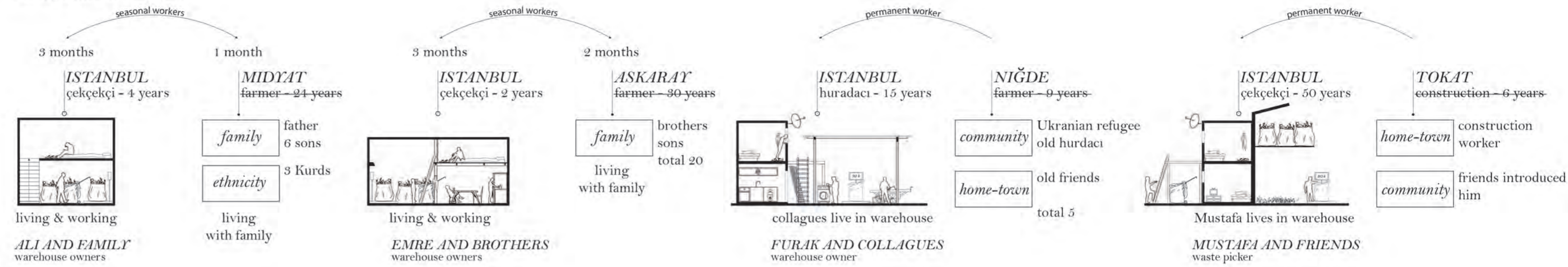
THE SYSTEM OF HEMŞEHRI (SHARED HOME-TOWN)

the phenomenon of hemşehri:

common identity and solidarity between immigrants & settlements

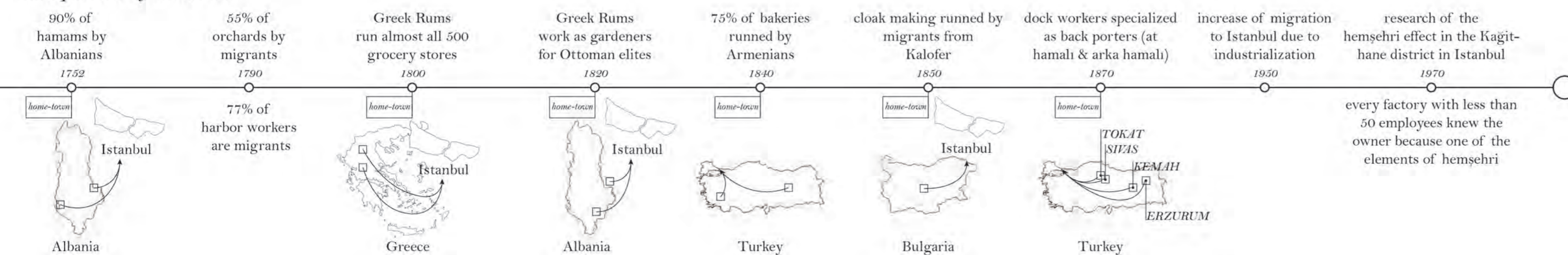


waste pickers & hemşehri:

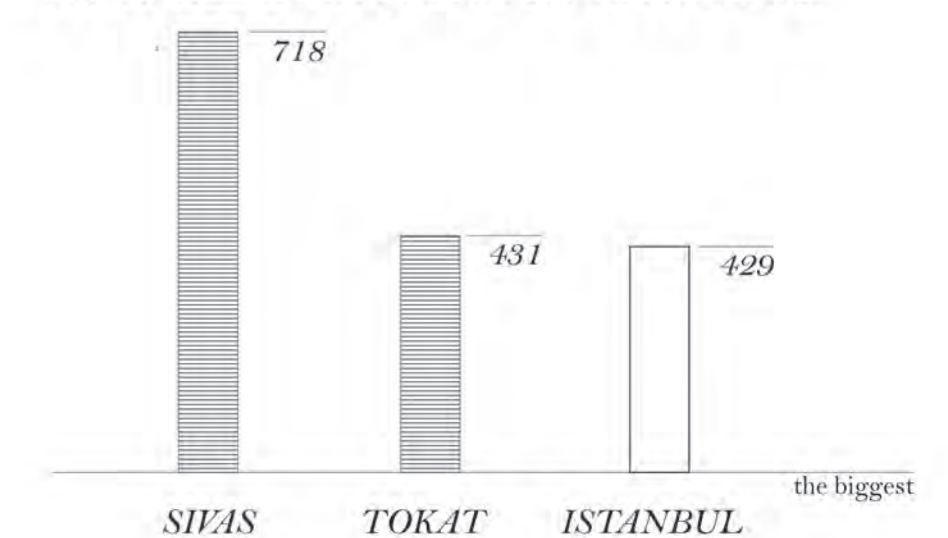


HISTORICAL FUELED BY MIGRANTS

made possible by hemşehri



CIVIC ASSOCIATIONS IN ISTANBUL



INFORMAL WORKPLACES
TARLABASI

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

1990 Existing courtyard houses

2014 Kuvvetli/Weak migrants enter Çekirge warehouse

2002 Çekirge warehouse

ELEMENTS

- extension corrugated iron
- extension steel beams
- extension brick
- extension stone
- old facade stone

PROGRAM

- living
- storage
- workshop
- car garage
- basement

transformed çekirgeci ruin

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2000 Still abandoned

2002 Çekirgeci house

ELEMENTS

- stone plaster
- new roof steel beams & corrugated iron
- new facade wood
- old facade stone
- façade brick

PROGRAM

- living
- storage
- workshop
- car garage
- basement

communal çekirgeci field

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2004 YHİ declared Tarlabasi as gentrification area

2014 Demolishing houses of gentrification

2016 Resistance against gentrification

2002 Çekirgeci communal field expansion

ELEMENTS

- open storage boxes steel beams & corrugated iron
- field grass
- façade brick

PROGRAM

- living
- storage
- workshop
- car garage
- basement

self-built hurdacı warehouse

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2000 Gentrification field self-built with recyclables

2002 hurdacı warehouse

ELEMENTS

- extension roof steel beams & corrugated iron
- walls brick & corrugated iron
- minis wood

PROGRAM

- living
- storage
- workshop
- car garage
- basement

self-built çekirgeci warehouse

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2000 Gentrification field self-built with recyclables

2002 expanded self-built Çekirgeci warehouse

ELEMENTS

- extension roof steel beams & corrugated iron
- extension walls brick
- minis wood

PROGRAM

- living
- storage
- workshop
- car garage
- basement

the informal basement

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

1970 Gentrification field self-built with recyclables

2000 Gentrification field self-built with recyclables

2002 expanded self-built Çekirgeci warehouse

ELEMENTS

- extension roof steel beams & corrugated iron
- extension walls brick
- basement stone & concrete

PROGRAM

- living
- storage
- workshop
- car garage
- basement

this is a business!

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2000 work without workshop

2012 expansion of informal work with recyclables

2002 expanded self-built car garage

ELEMENTS

- extension roof steel beams & corrugated iron
- extension walls recycled steel frames
- storage level floor wood

PROGRAM

- living
- storage
- workshop
- car garage
- basement

GLOBAL INFORMALITY

1900 Row house

1953 Ideal Program Turkish Kuvvetli/Weak Row nearly house Tarlabasi

1980 Migrants looking for work enter abandoned houses

2000 work without workshop

2012 expansion of informal work with recyclables

2002 expanded self-built car garage

ELEMENTS

- extension roof steel beams & corrugated iron
- extension walls recycled steel frames
- storage level floor wood

PROGRAM

- living
- storage
- workshop
- car garage
- basement

INFORMAL ELEMENTS

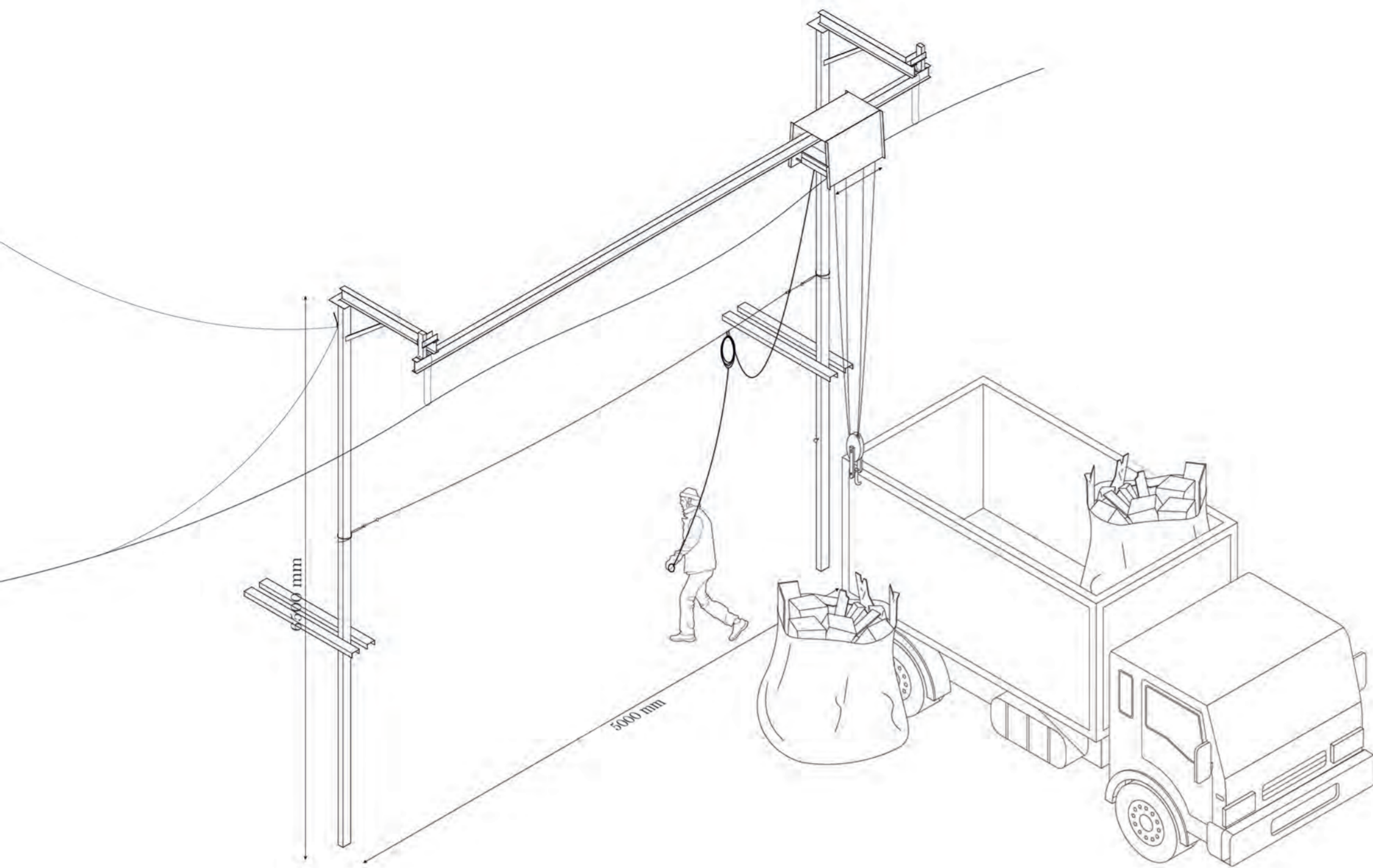
self-regulating structure

square

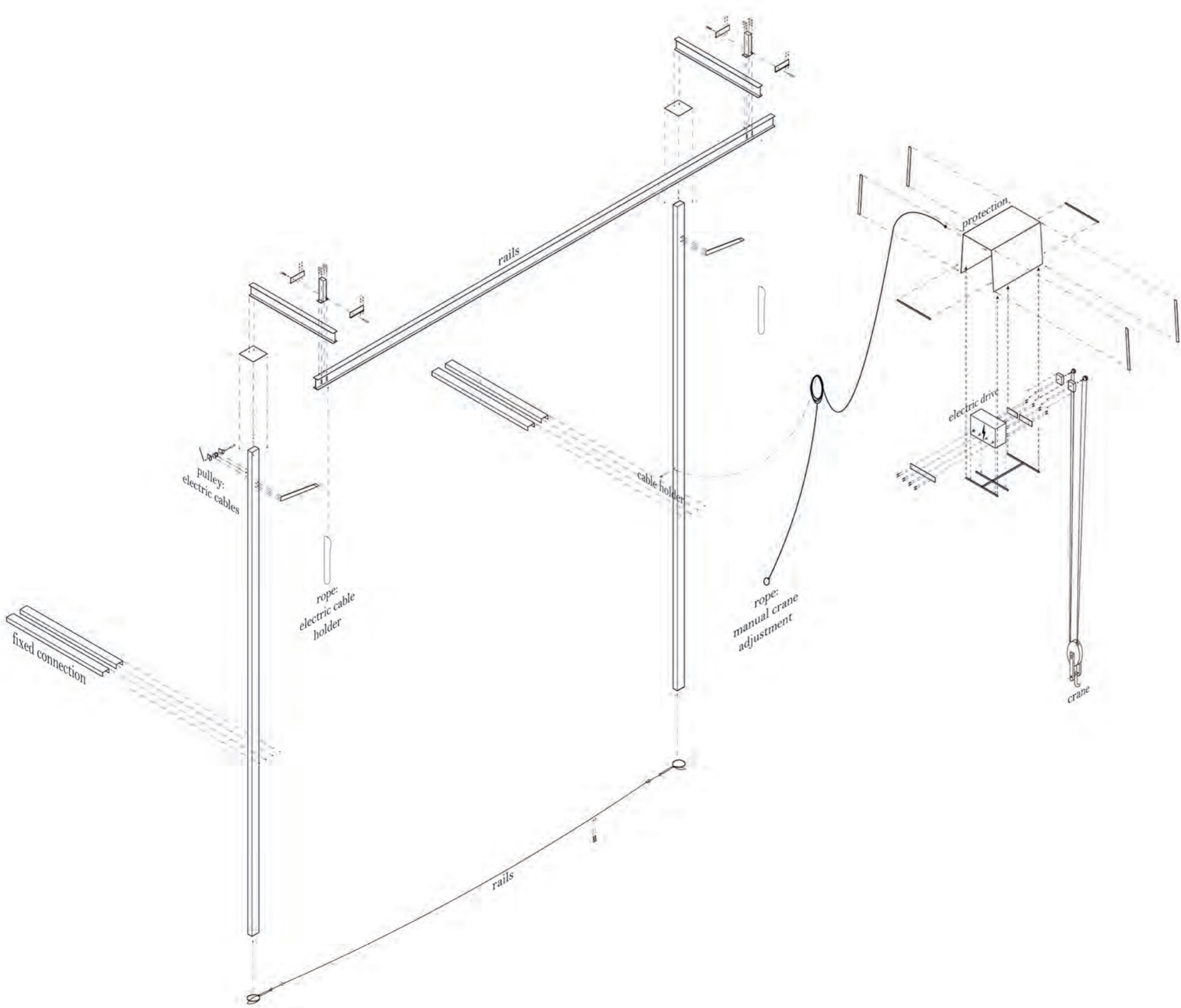
communal structures

re-use and adapt

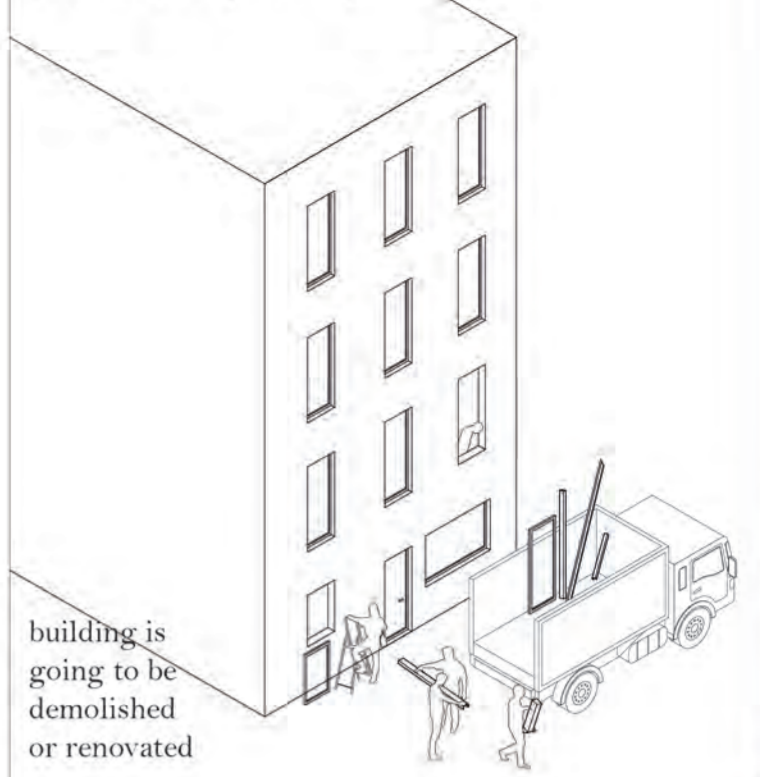
the reinvented crane



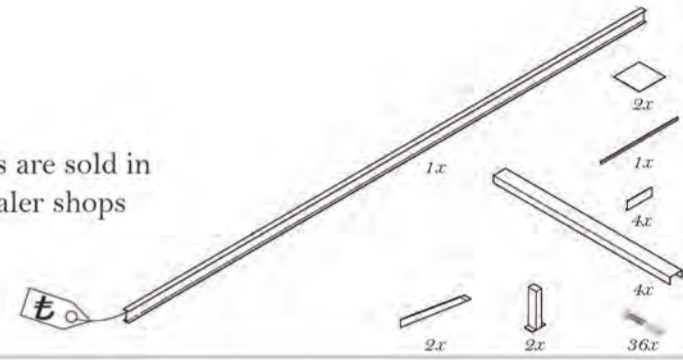
the reinvented crane - exploded



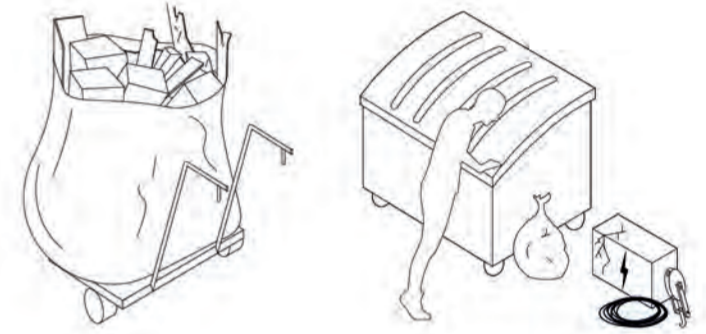
çıkmacı (scrap dealer)



materials are sold in scrap dealer shops

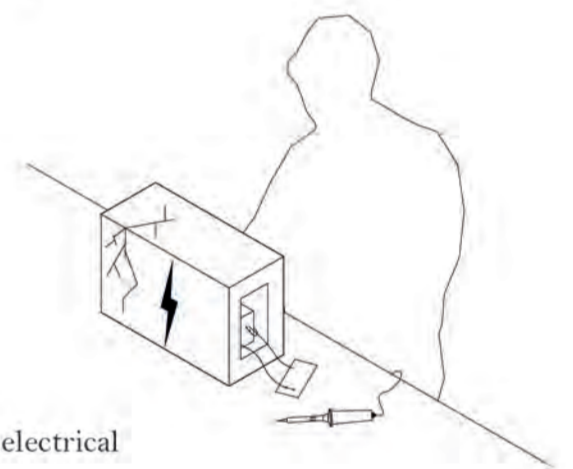


çekçekçi



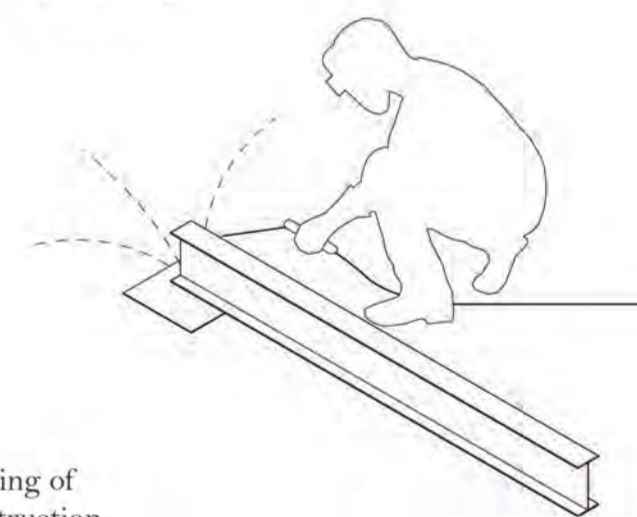
collecting items for the crane

repair shop



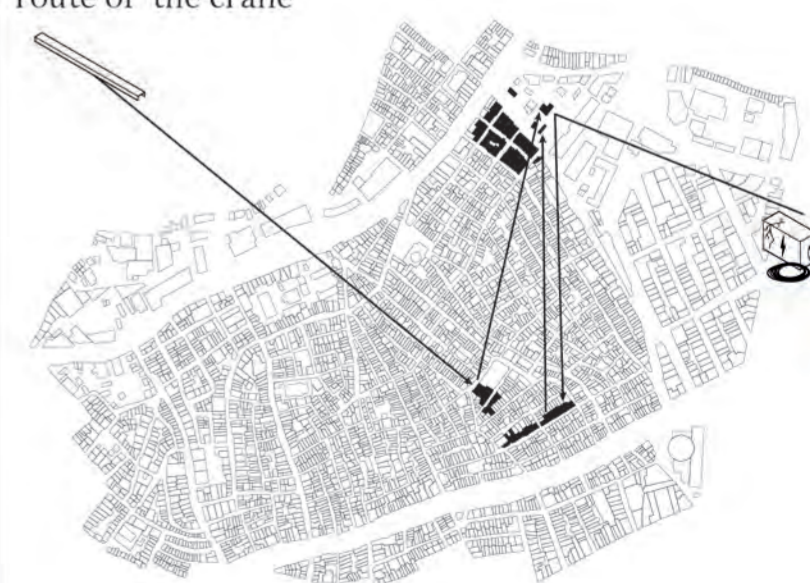
repairing electrical devices

metal workshop

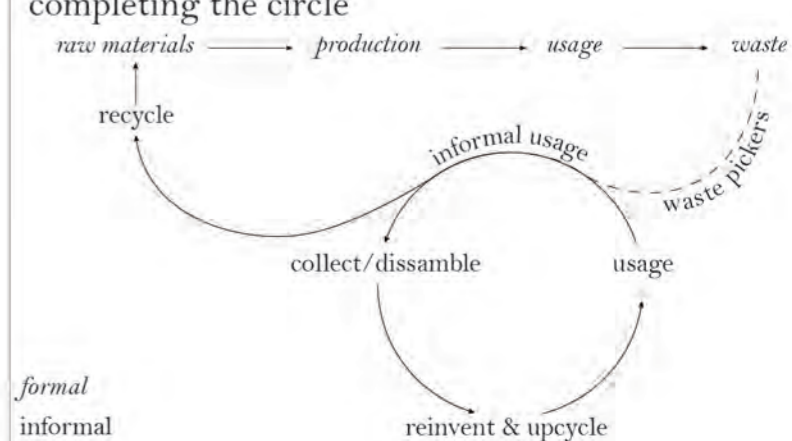


welding of construction

route of the crane



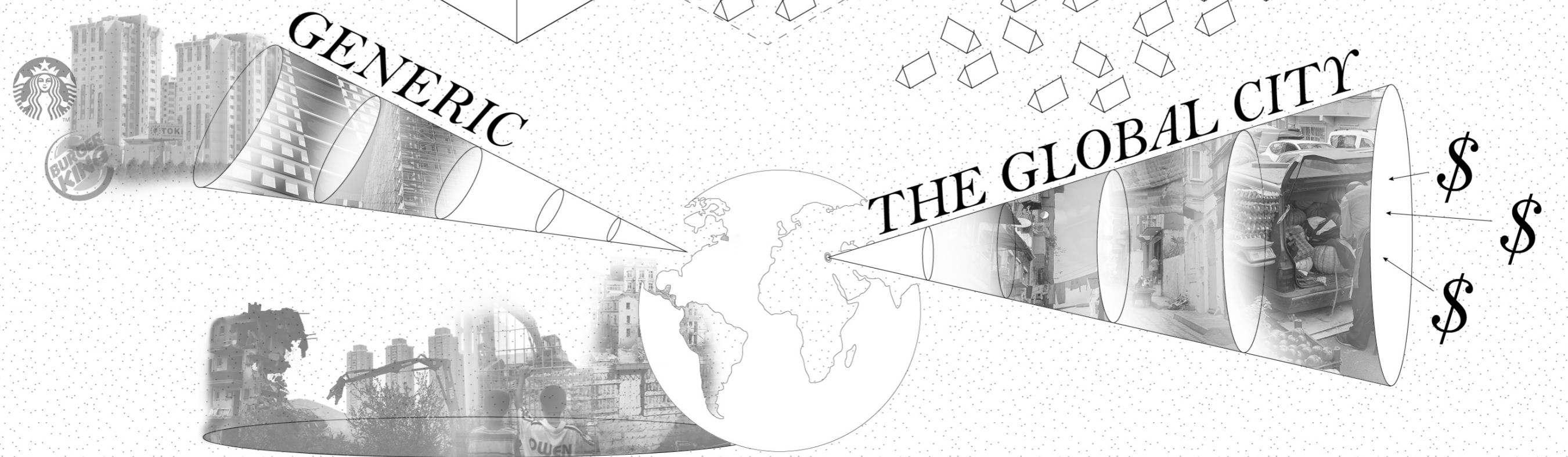
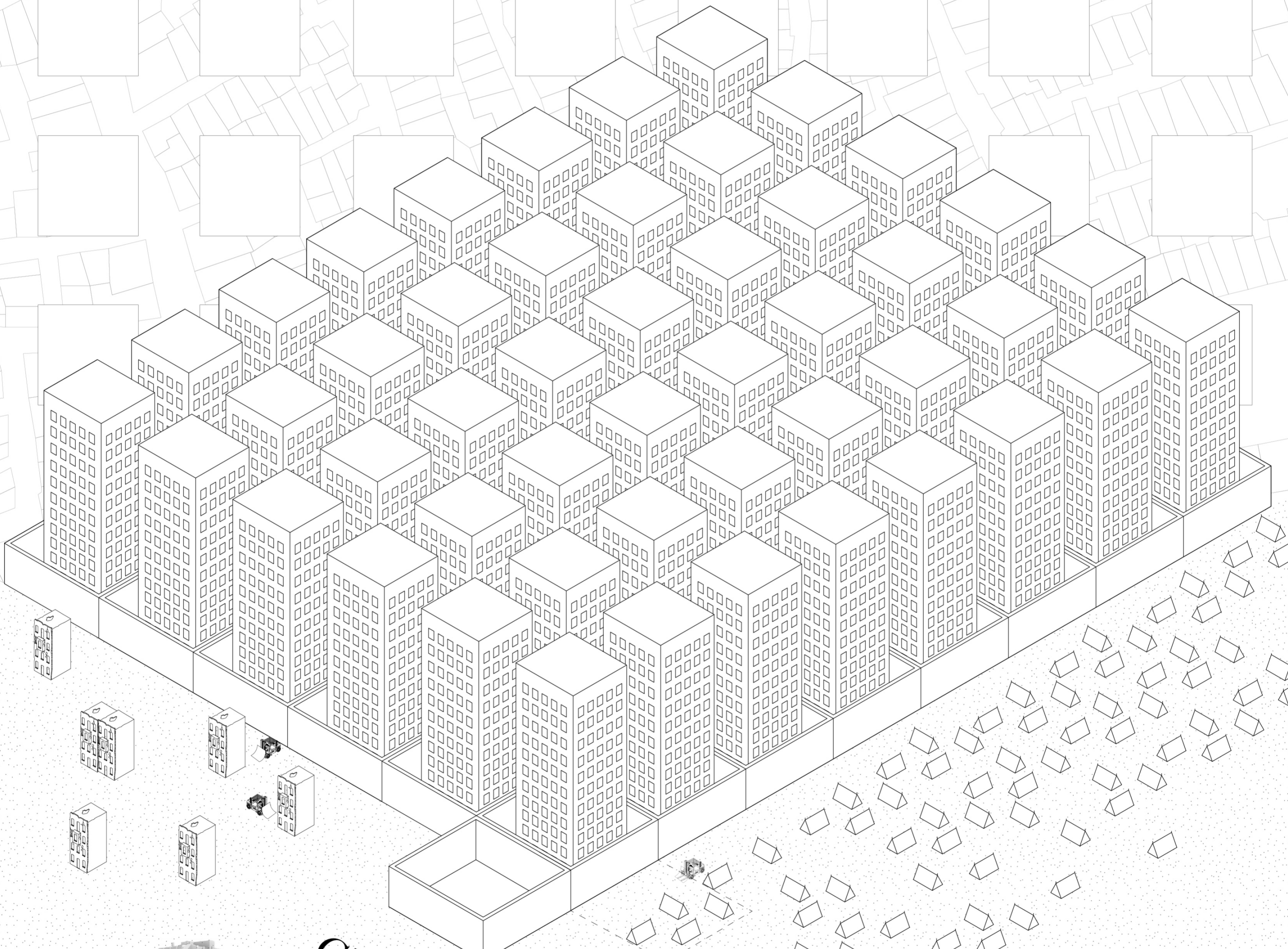
completing the circle

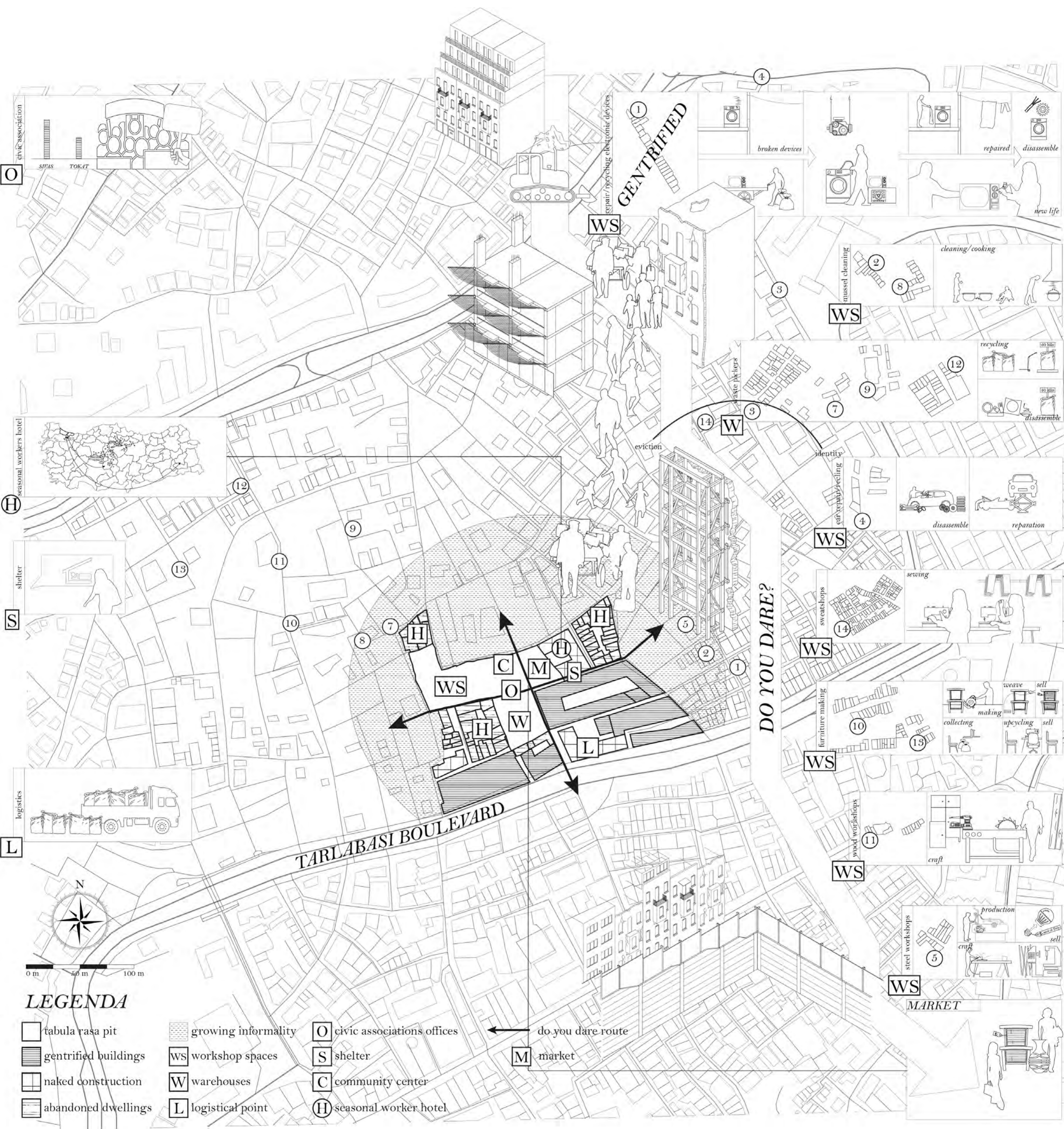


THE UNLIVABLE CITY

MANIFESTO

classified by income and wealth.





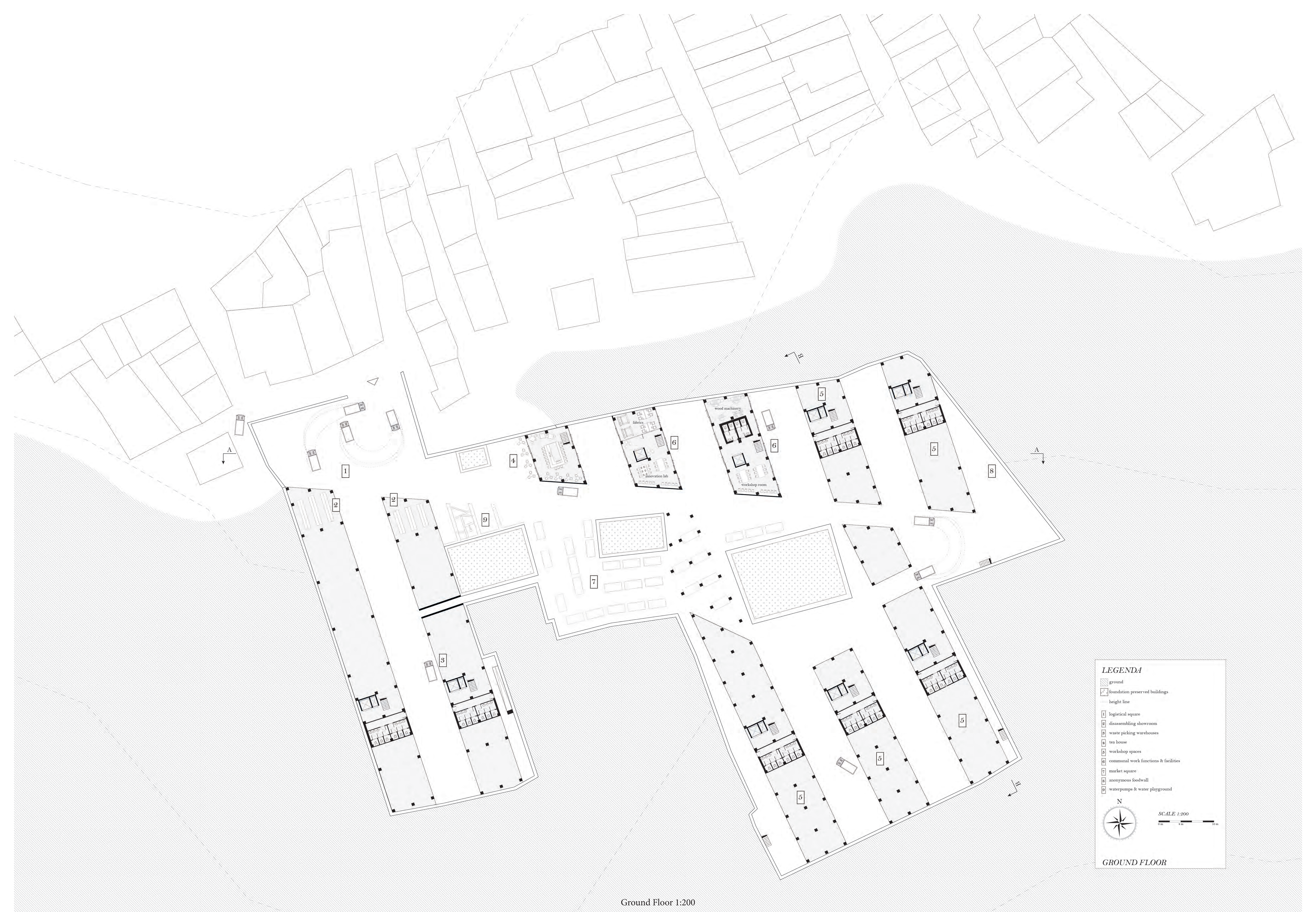
LEGENDA

- tabula rasa pit
- growing informality
- civic associations offices
- gentrified buildings
- workshop spaces
- shelter
- naked construction
- warehouses
- community center
- abandoned dwellings
- logistical point
- seasonal worker hotel

MASTERPLAN

SHELTER OF THE INFORMALITY





LEGENDA

- ground
- foundation preserved buildings
- height line
- logistical square
- disassembling showroom
- waste picking warehouses
- tea house
- workshop spaces
- communal work functions & facilities
- market square
- anonymous foodwall
- waterpumps & water playground

N

SCALE 1:200

0m 4m 8m

GROUND FLOOR

Ground Floor 1:200



LEGENDA

- ground
- foundation preserved buildings
- height line
- logistical square
- start Do You Dare Route (the house of disruption)
- waste picking warehouses
- tea house
- workshop spaces
- communal work functions & facilities
- market square
- outdoor communal meeting platforms
- logistical ramp
- seasonal workers hotel
- civic association offices
- place of common life/courtyard
- communal sanitary facilities
- communal kitchen facilities
- daycare
- tea house
- Tarlabasi community centre

N

SCALE 1:200

FIRST FLOOR

First Floor 1:200



LEGENDA

- ground
- foundation preserved buildings
- height line
- 1 logistical square
- 2 start Do You Dare Route (the house of disruption)
- 3 waste picking warehouses
- 4 tea house
- 5 workshop spaces
- 6 communal work functions & facilities
- 7 waste picker roof
- 8 daylight opening / open structure
- 9 logistical ramp
- 10 Do You Dare Route
- 11 studio rooms
- 12 the connect room
- 13 communal sanitary facilities
- 14 communal kitchen facilities
- 15 family rooms / transformable in hostel room
- 16 shelter rooms
- 17 shared laundry point
- 18 hostel room

N

SCALE 1:200

SECOND FLOOR

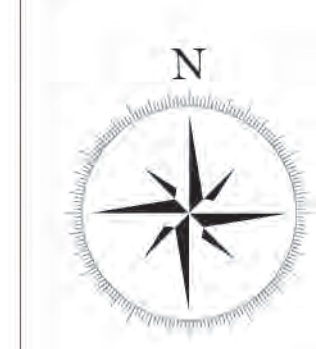
Second Floor 1:200



Site Plan 1:400

LEGENDA

- buildings
- height line
- 1 logistical square
- 2 waste picking roof
- 3 start Do You Dare route
- 4 Do You Dare Route
- 5 exhibition roofs
- 6 market roof
- 7 energy roof
- 8 logistical strip & energy roof
- 9 seasonal workers hotel



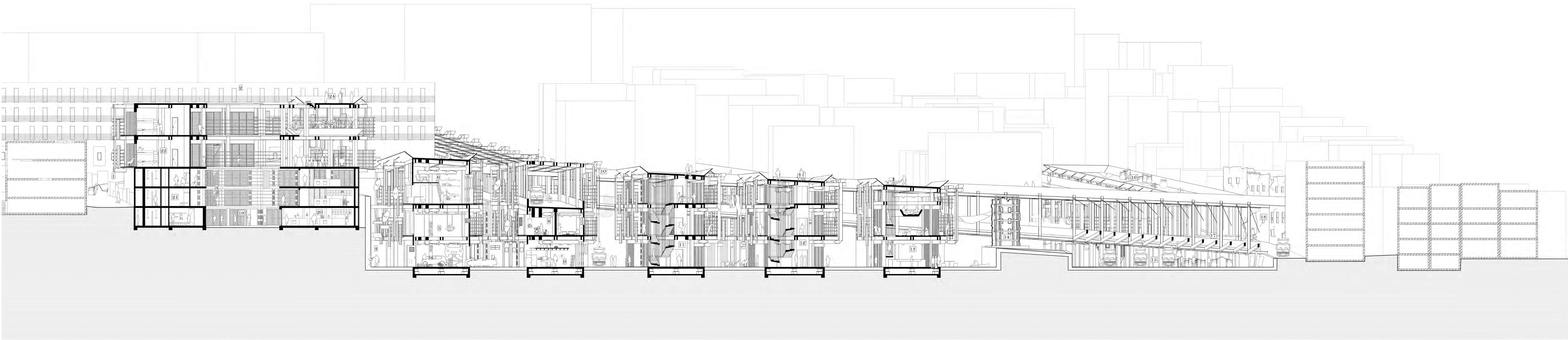
SCALE 1:200
 0m 4m 8m

ROOF PLAN

LEGENDA



COMPLETION
SECTION - AA
scale 1:200



INDEX

- | | | | | | | | |
|--------------------------|---------------------------------|---------------------------------------|------------------------------------|---------------------------------|--|-----------------------------|--|
| 1. Do You Dare Route | 4. anonymous food wall | 7. logistical ramp | 10. crane added informal structure | 13. tea house | 16. waste picking & recycling roof | 19. place of community life | 22. long stay seasonal workershotel room |
| 2. gentrified block | 5. high ceiling informal module | 8. small informal module | 11. communal workshop spaces | 14. historical preserved facade | 17. vierendeelliger with logistical axis | 20. communal kitchen | 23. gardening platform |
| 3. seasonal worker hotel | 6. two floors informal module | 9. informal module with storage level | 12. communal workshopspaces | 15. logistical square | 18. start Do You Dare Route (house of' disription) | 21. communal bathroom | 24. observation point |

OCCUPATION
SECTION - AA
scale 1:200



COMPLETION
SECTION - BB
scale 1:200



INDEX

- 1. energy roof
- 2. logistical ramp
- 3. Do You Dare Route

- 4. internal logistical ramp
- 5. two storey workshop space
- 6. added storage level

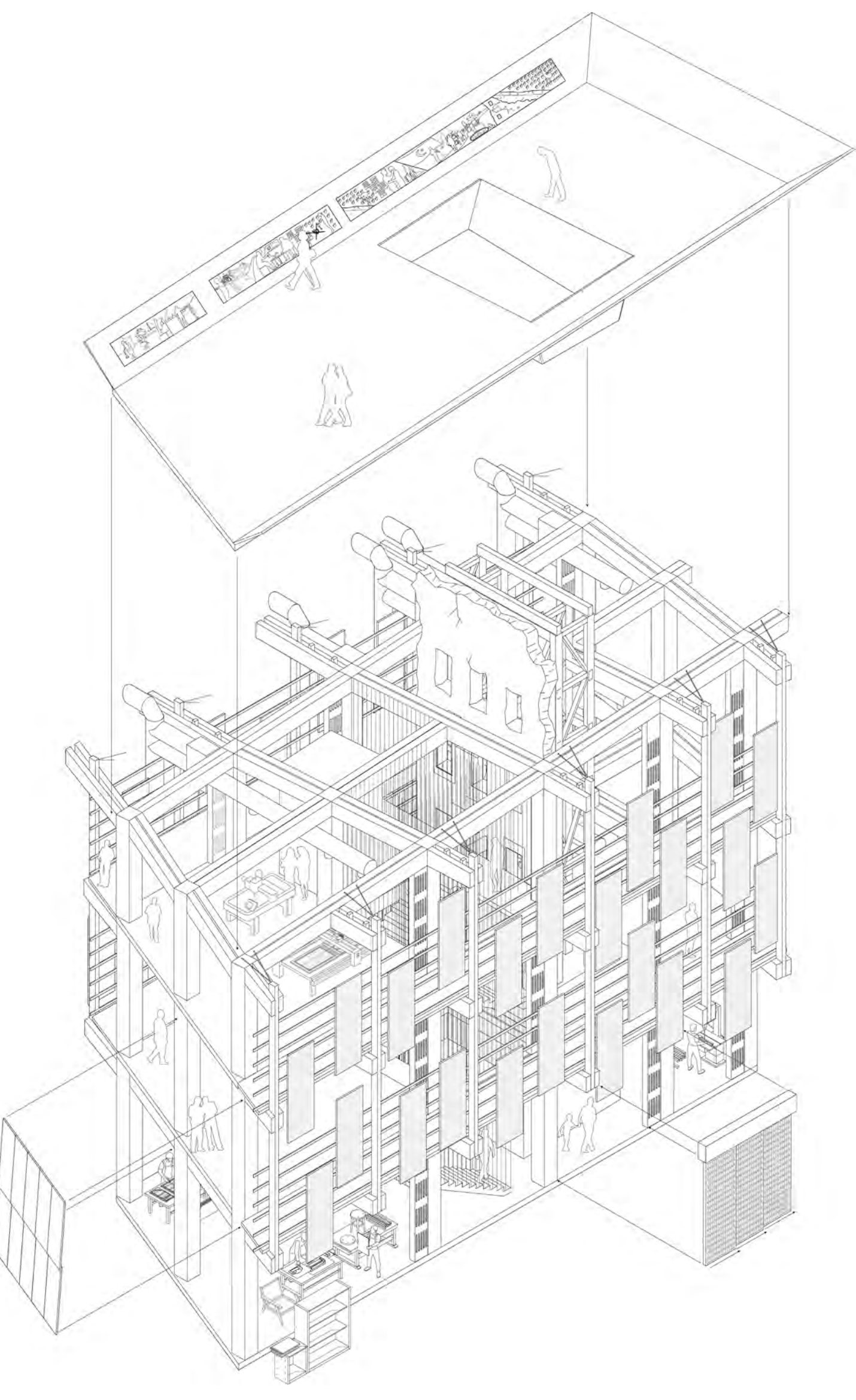
- 7. small workshop module
- 8. toilet module
- 9. staircase

- 10. removed floor and column module
- 11. 3 storey workshop
- 12. logistical passage

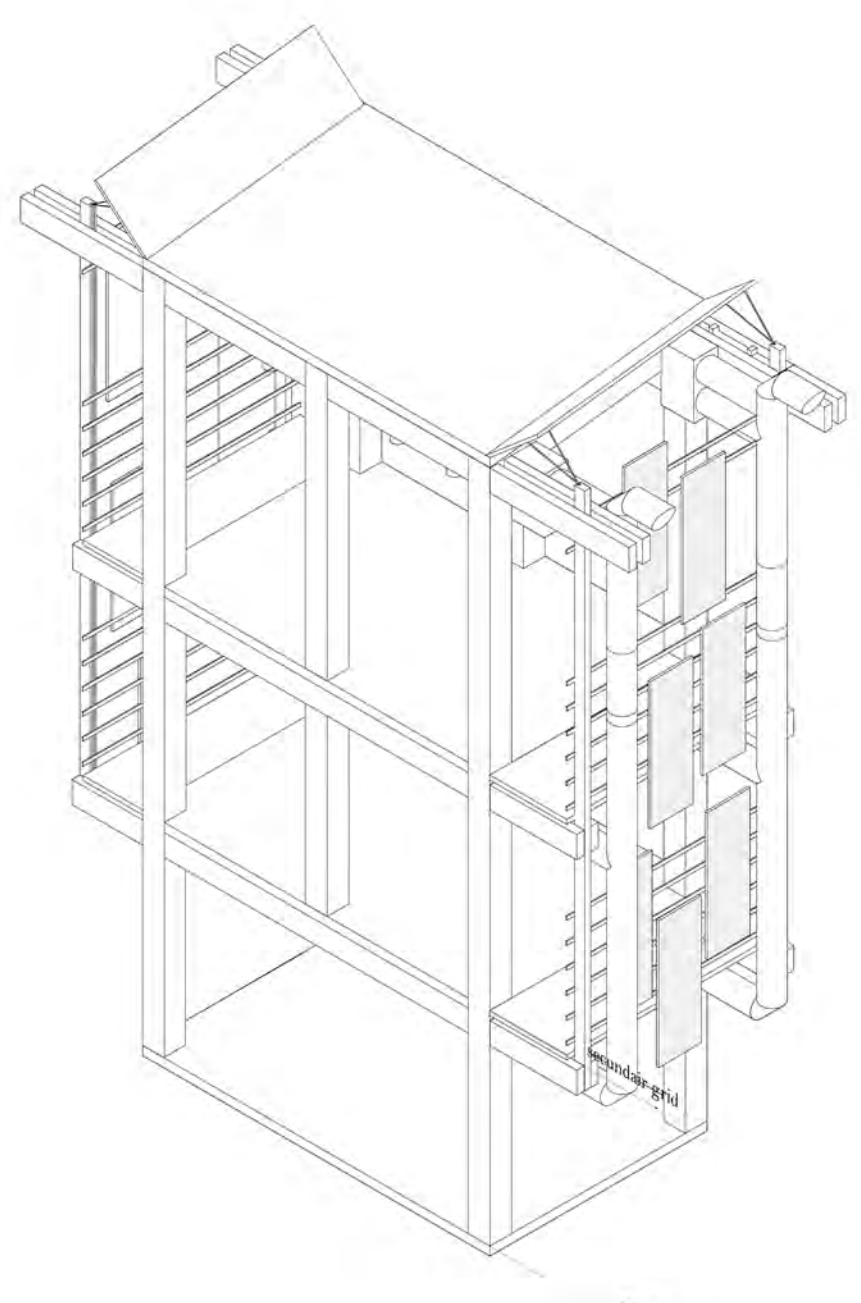
- 13. horizontal expanded module
- 14. high ceiling module
- 15. existing construction pit beam

- 16. main logistical axis
- 17. elevator
- 18. dynamic seismic isolation system

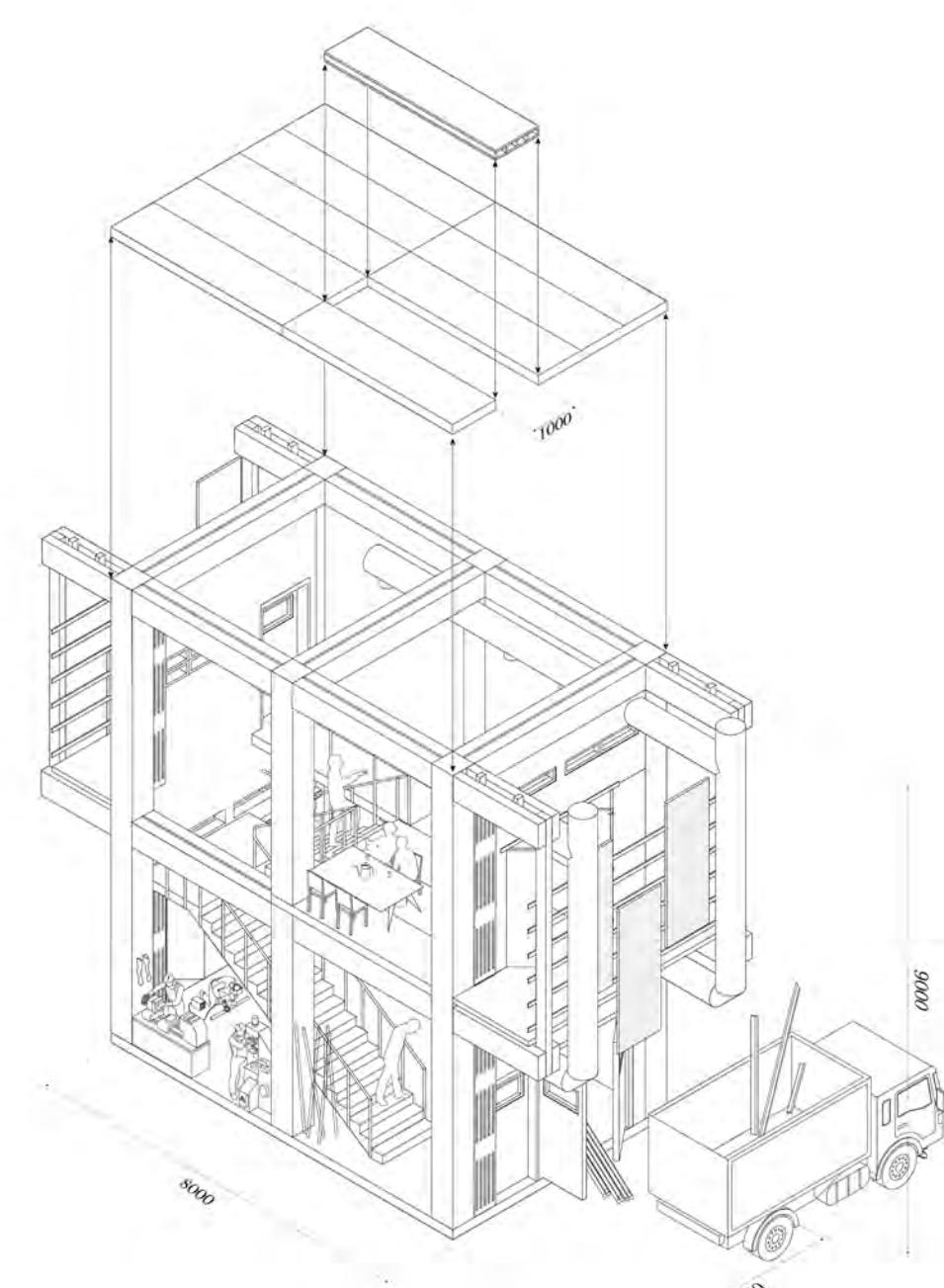
OCCUPATION
SECTION - BB
scale 1:200



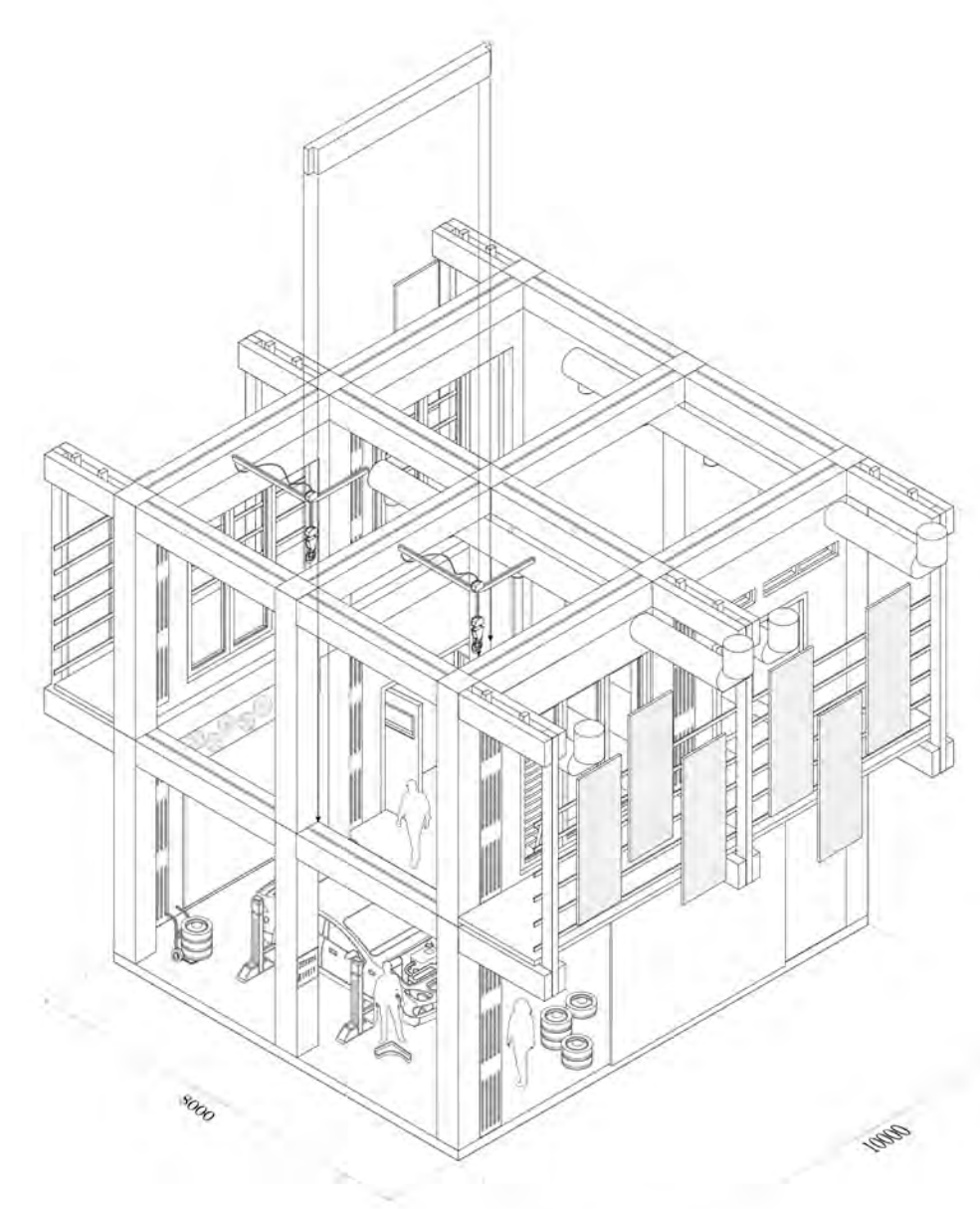
COMMUNAL WORKSHOP FUNCTIONS



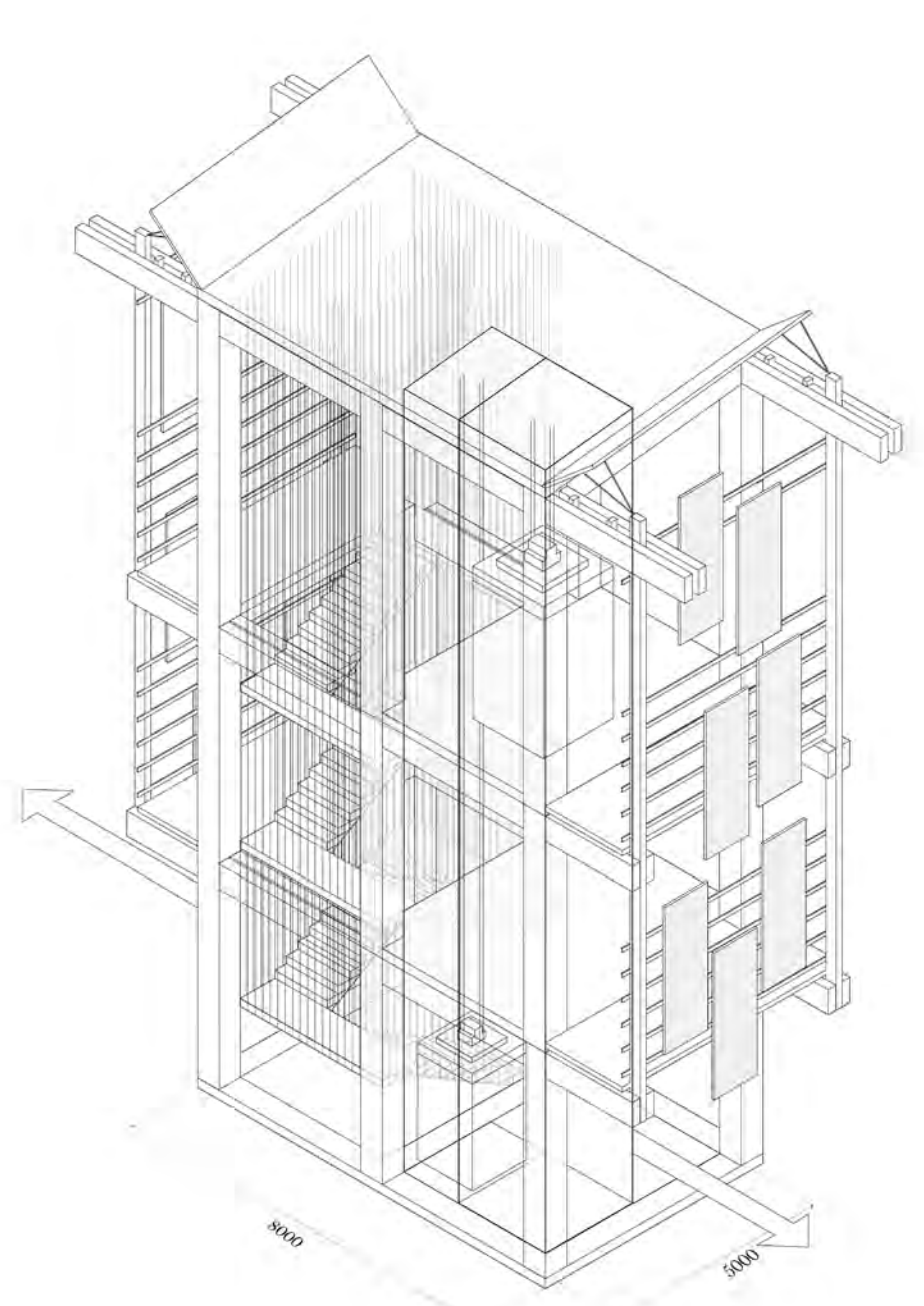
FRAGMENT
VARIETY OF SUPER GRID AND SECONDARY GRID



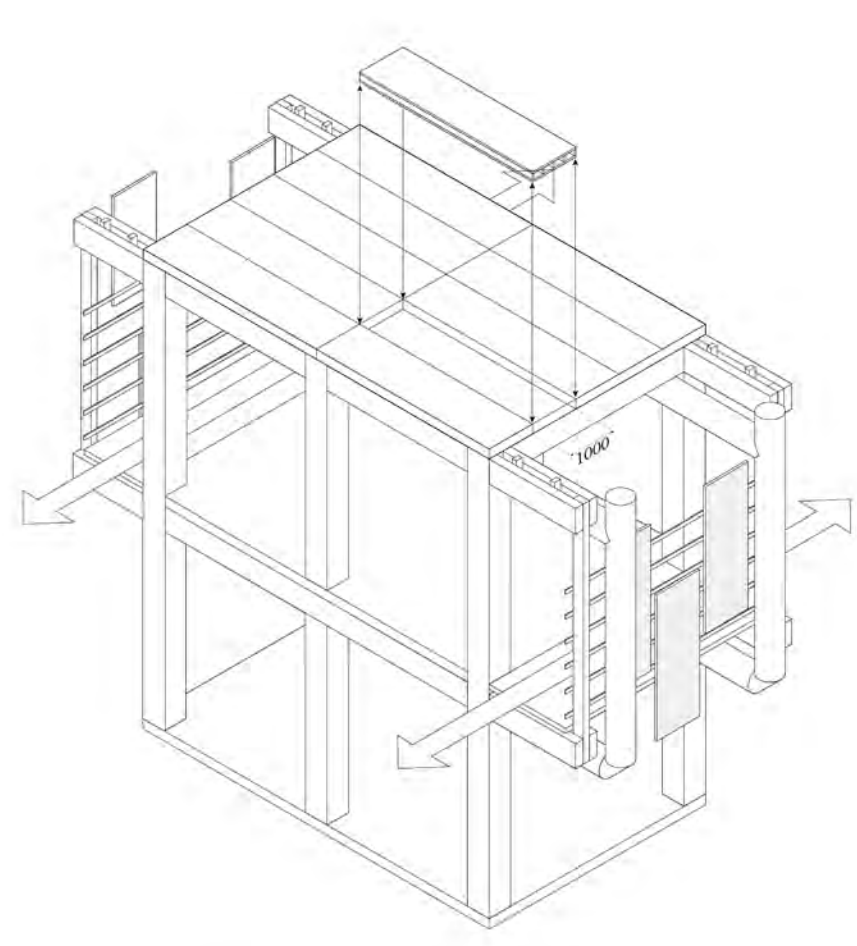
CONNECTED MODULES
FOUR MODULES, ONE WORKSHOP BY REMOVING FLOOR PLATES



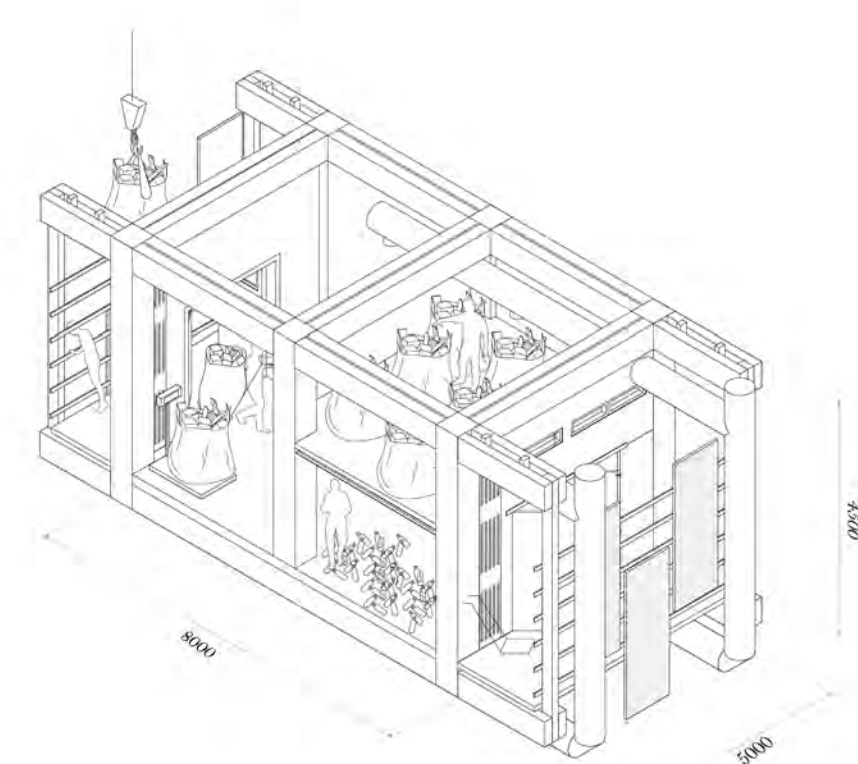
EIGHT MODULES, ONE WORKSHOP
HIGH CEILING



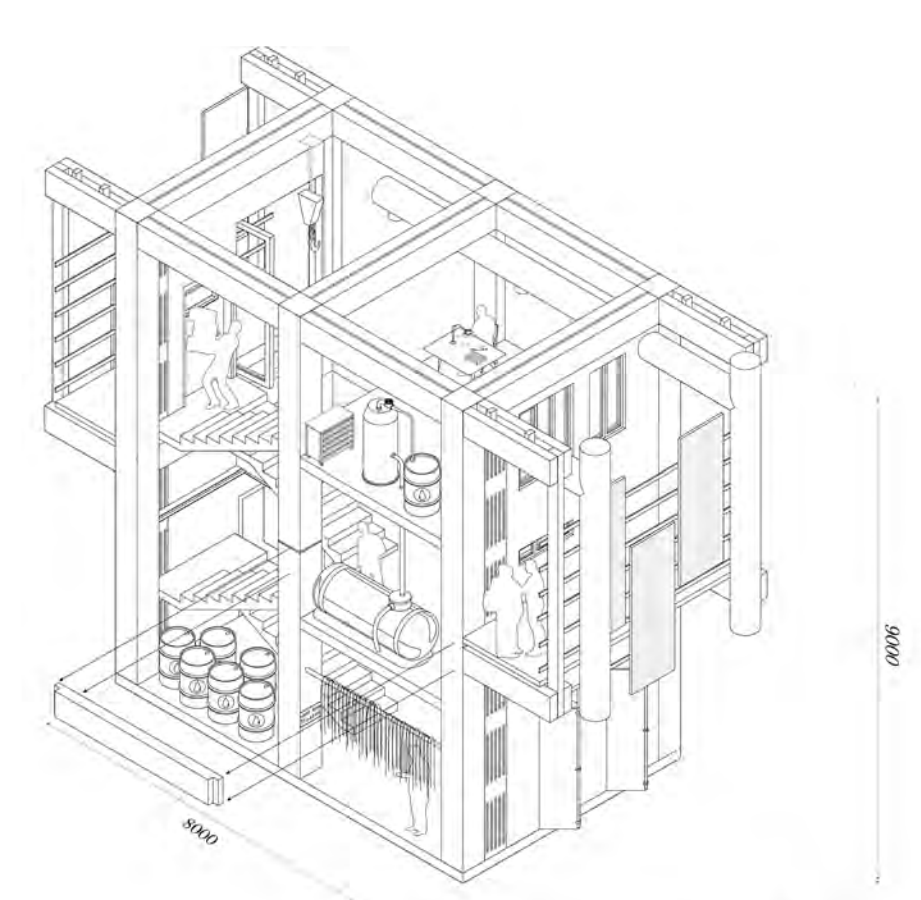
INTERNAL ROUTING & LOGISTICS



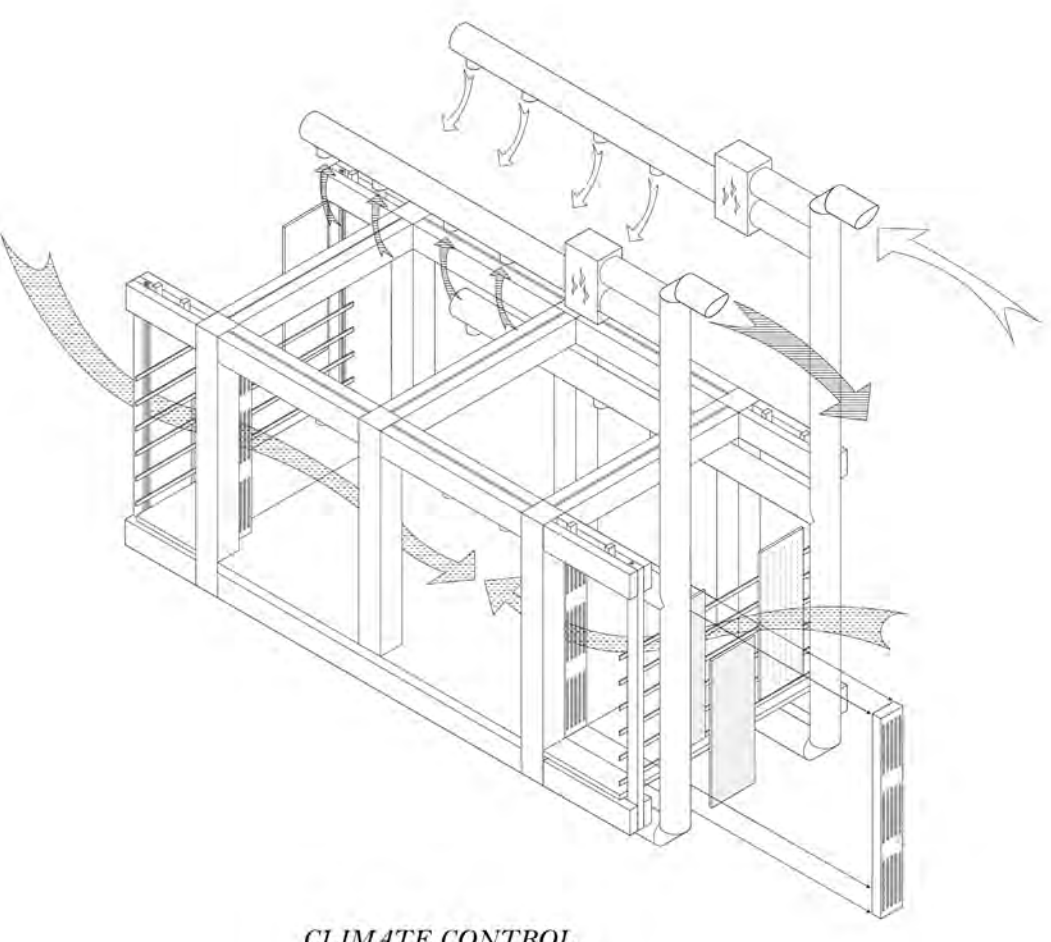
FLEXIBILITY BY PUSHING
GALLERIES AND PIPELINES TO THE OUTSIDE
OF THE STRUCTURE & BY FLOOR SYSTEM



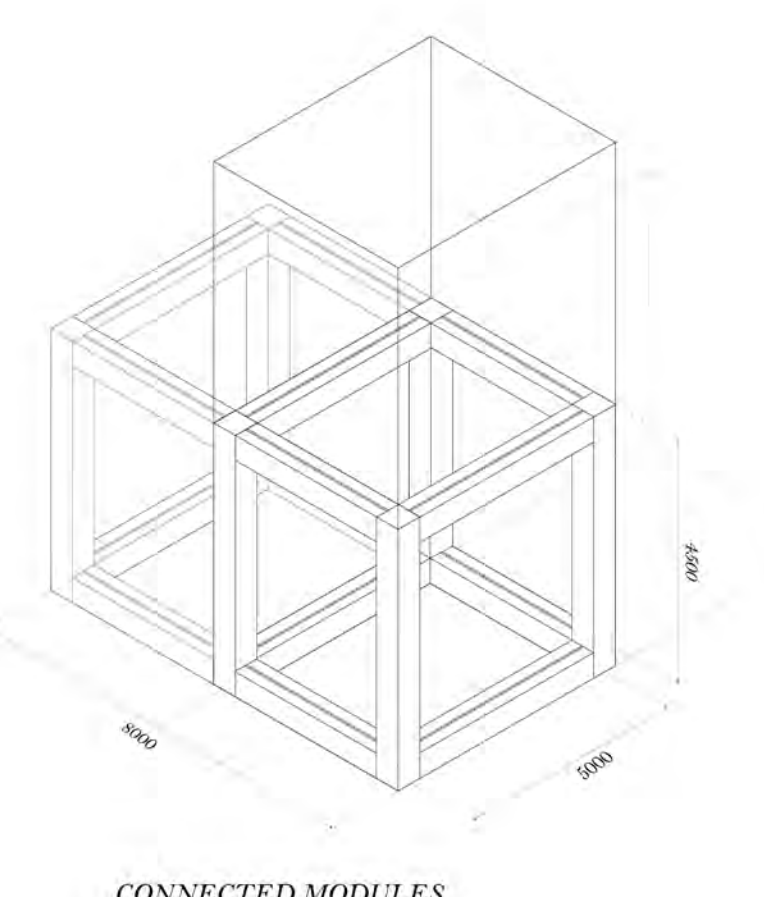
CONNECTED MODULES
TWO MODULES, ONE WORKSHOP &
STORAGE LEVEL



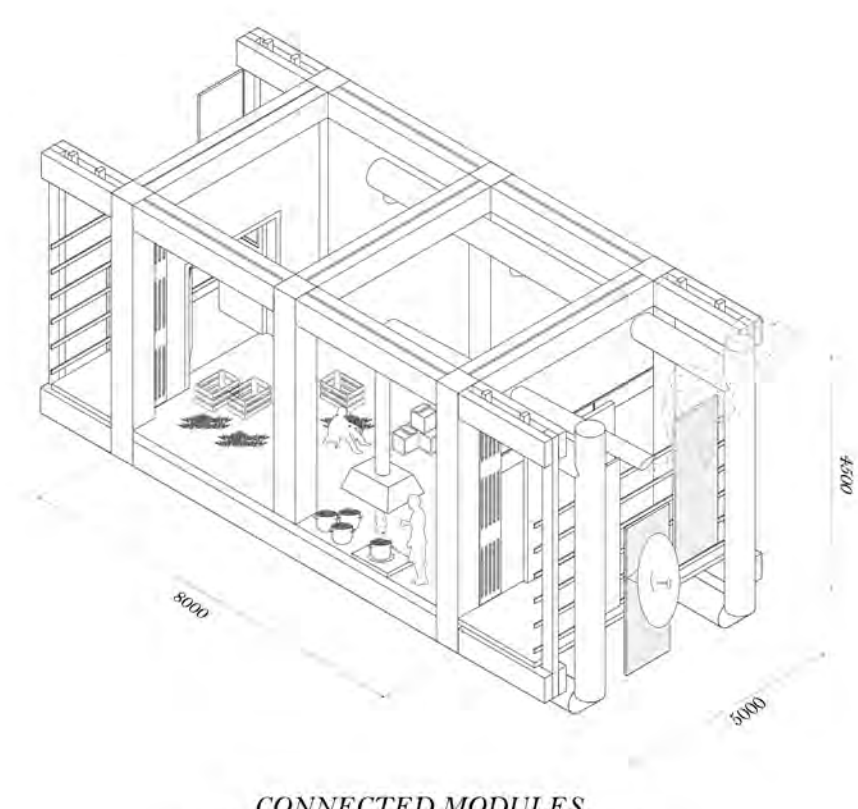
FOUR MODULES, ONE WORKSHOP
THREE LEVELS



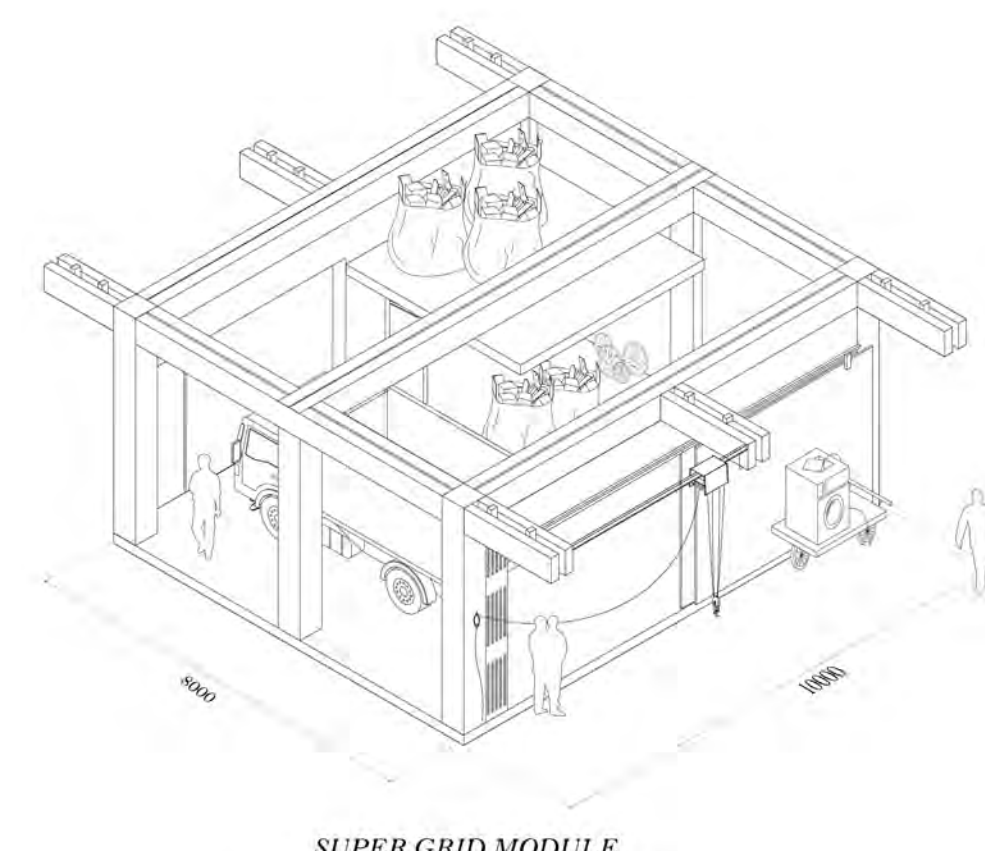
CLIMATE CONTROL



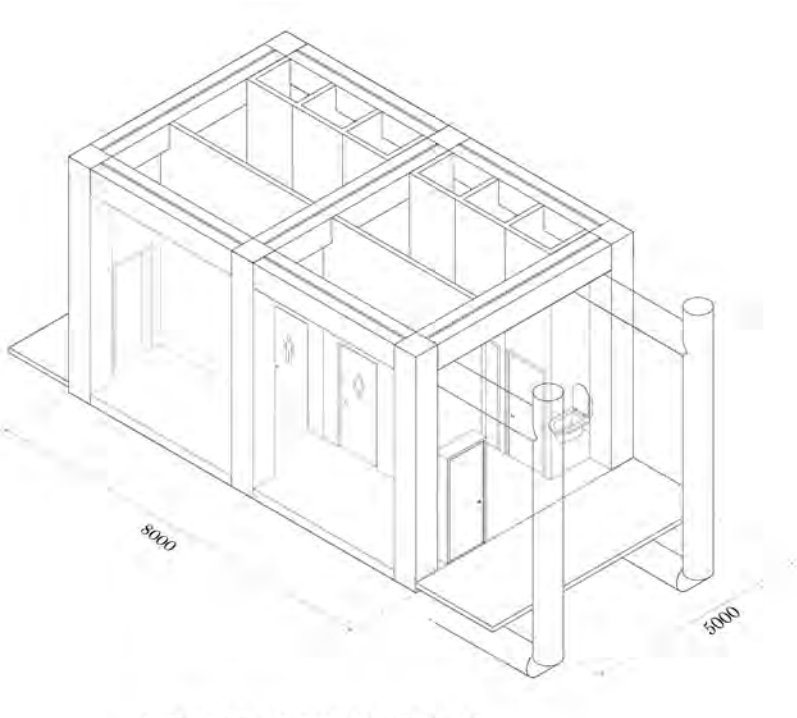
CONNECTED MODULES



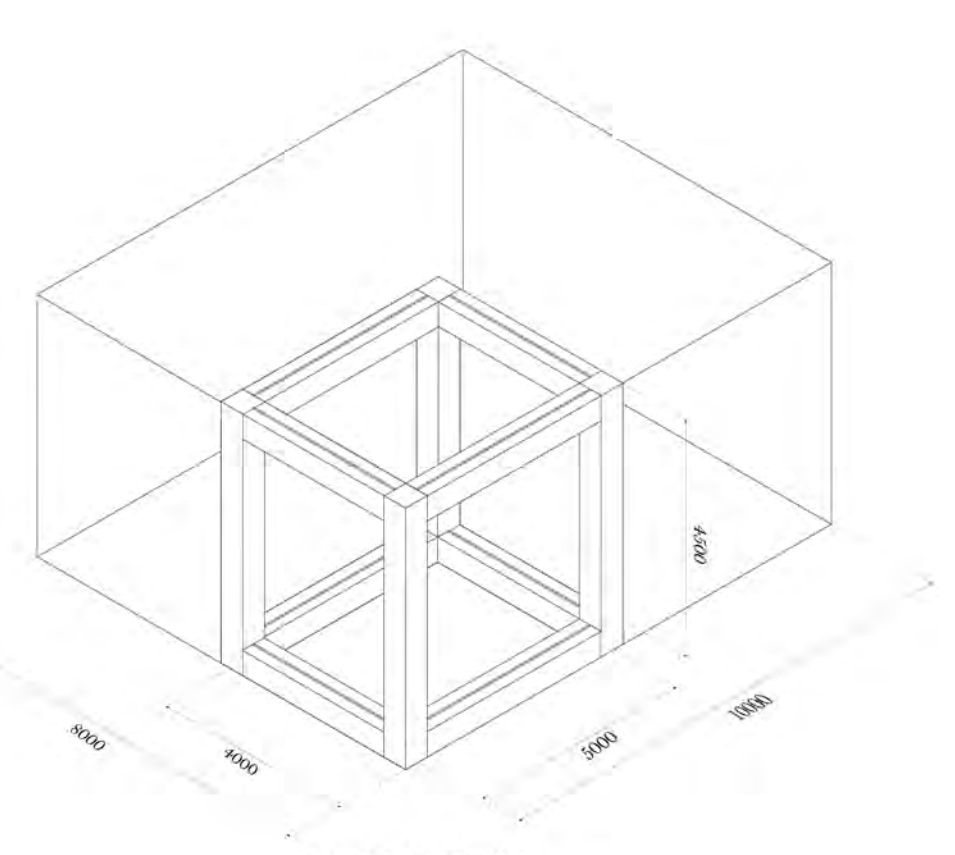
CONNECTED MODULES
TWO MODULES, ONE WORKSHOP



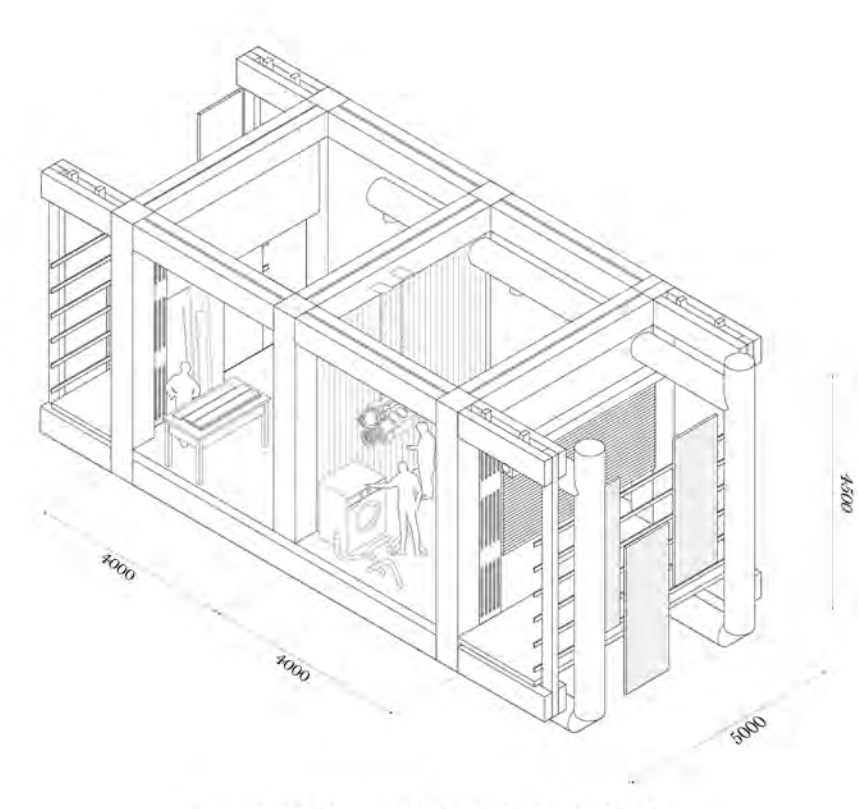
SUPER GRID MODULE



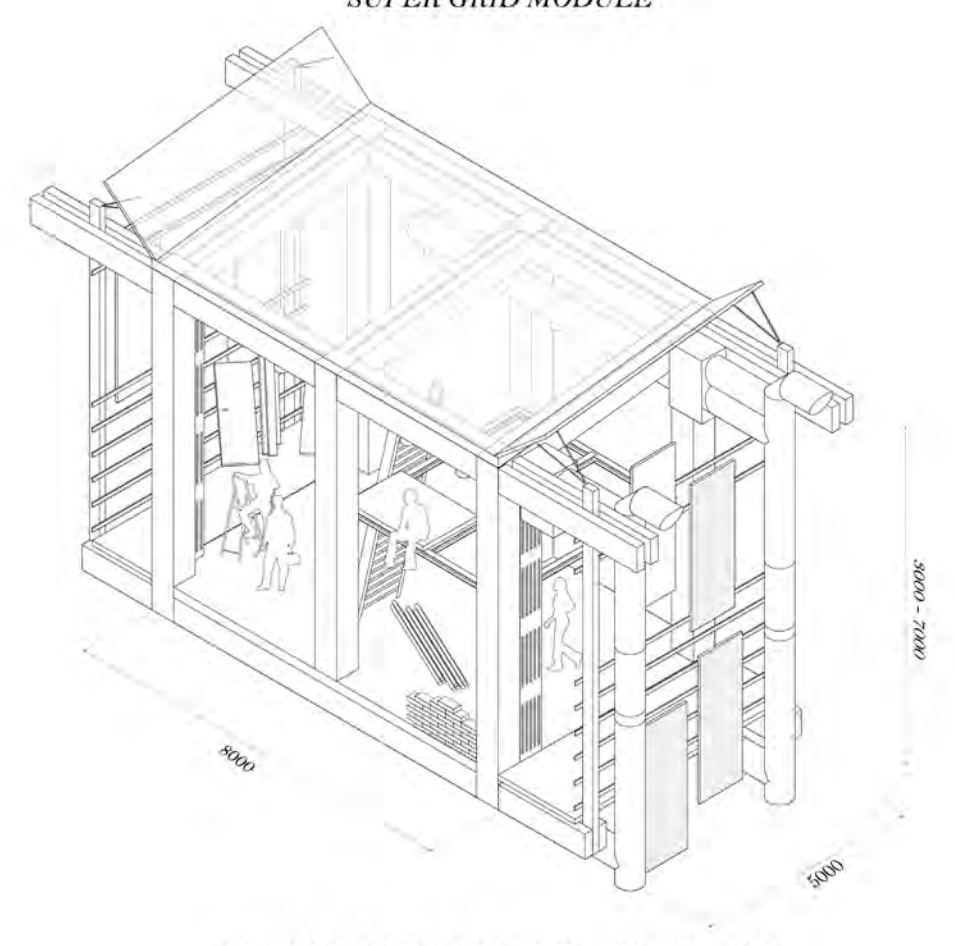
NECESSARY FUNCTIONS



SINGLE MODULE



ONE WORKSHOP IN ONE MODULE

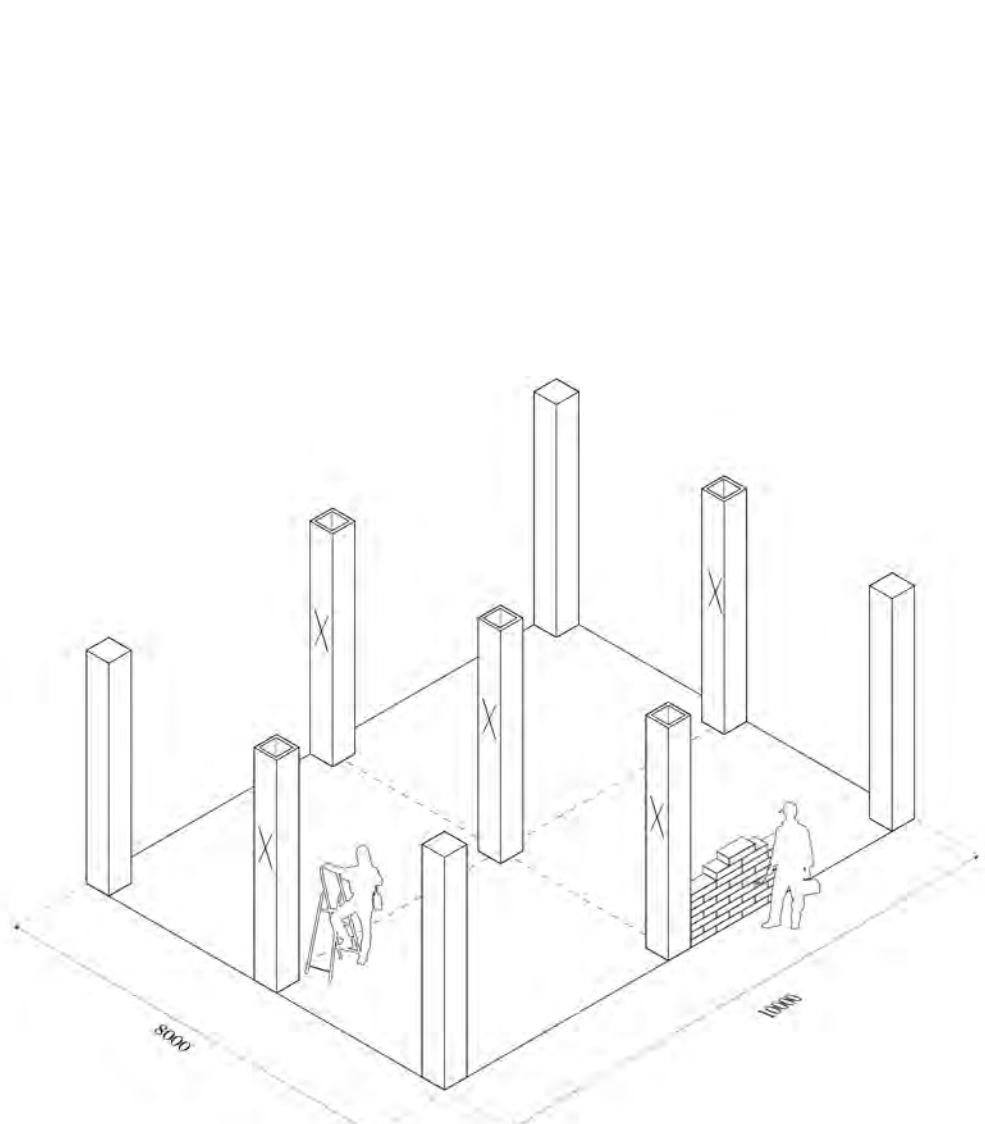


EXCEPTION IN THE GRID DUE TO THE
SLOPED ROOF

DESIGNED ELEMENTS
ROLE OF THE ARCHITECT

THE HYBRID STRUCTURE
HYBRID STRUCTURE

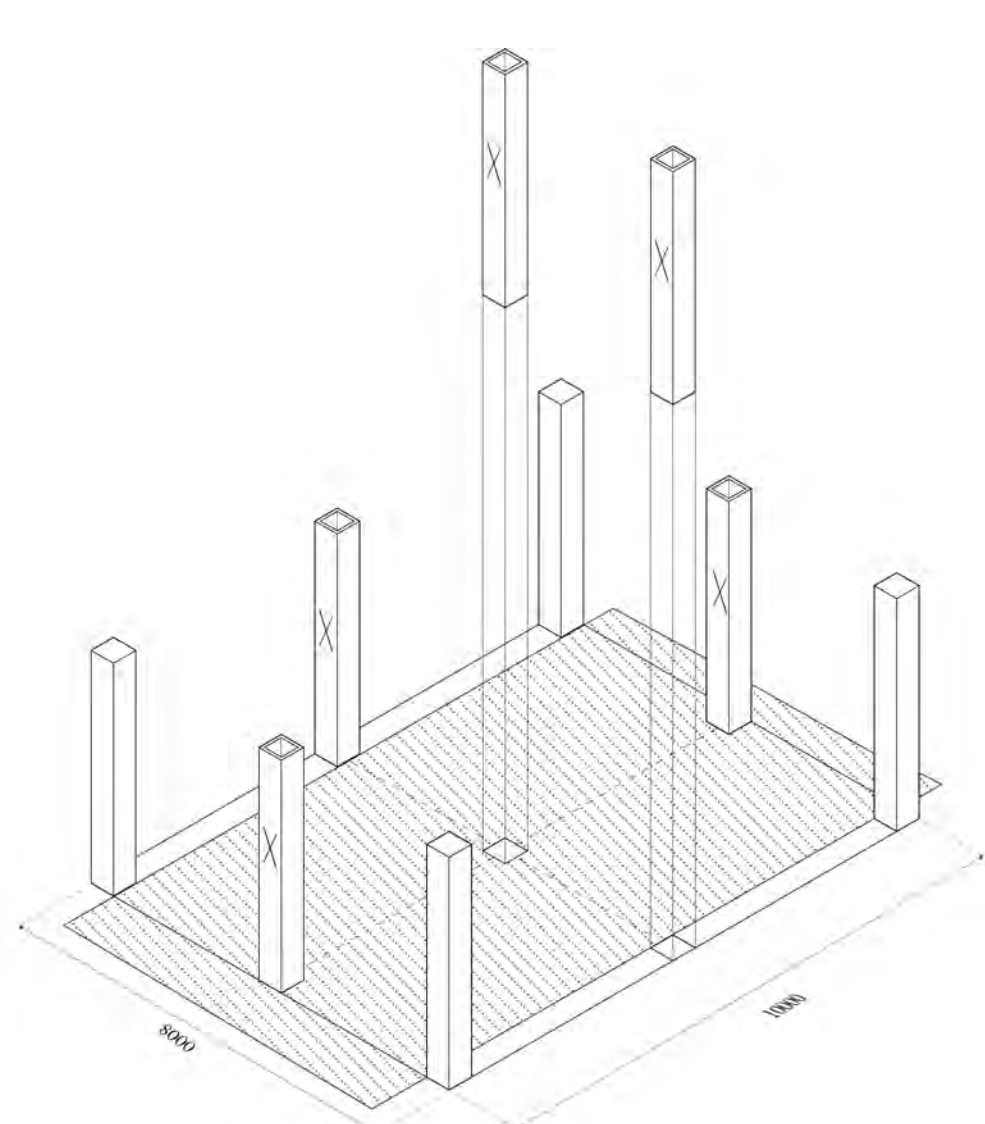
OCCUPATION
SELF REGULATION OF INFORMALITY



* SUPER GRID WITH SECONDARY GRID

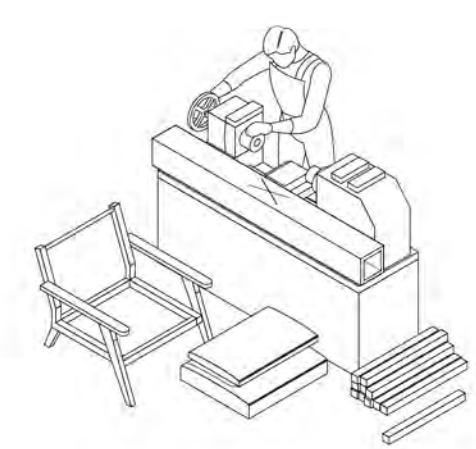
- removable columns are marked
- add your own facade

* In some strips the removable columns are already left out, because larger informal practices are expected.



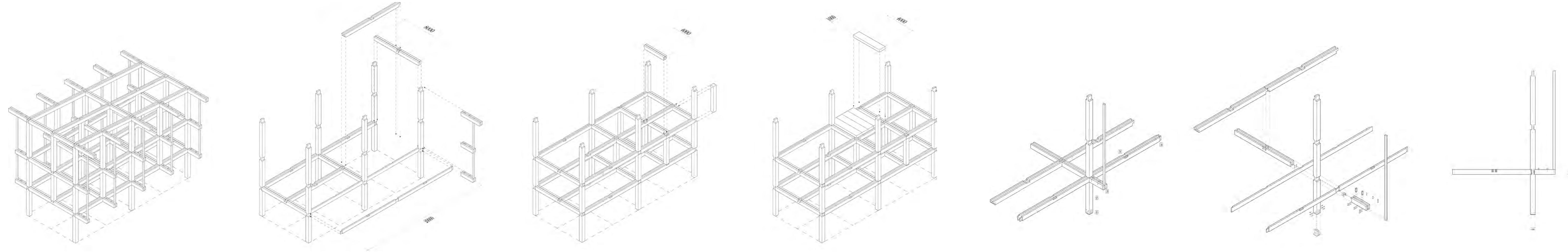
REMOVE

- possibility to grow inside the structure or to gain an open floor plan
- removable columns



REUSE

- New life possibilities
- Removed columns can be reused for structural addition or for crafts



STRUCTURAL FRAGMENT
One of the three different grid systems

THE SUPER GRID
series of concrete casting out of long CLT columns and beams by providing the column on the outside system for open building concept

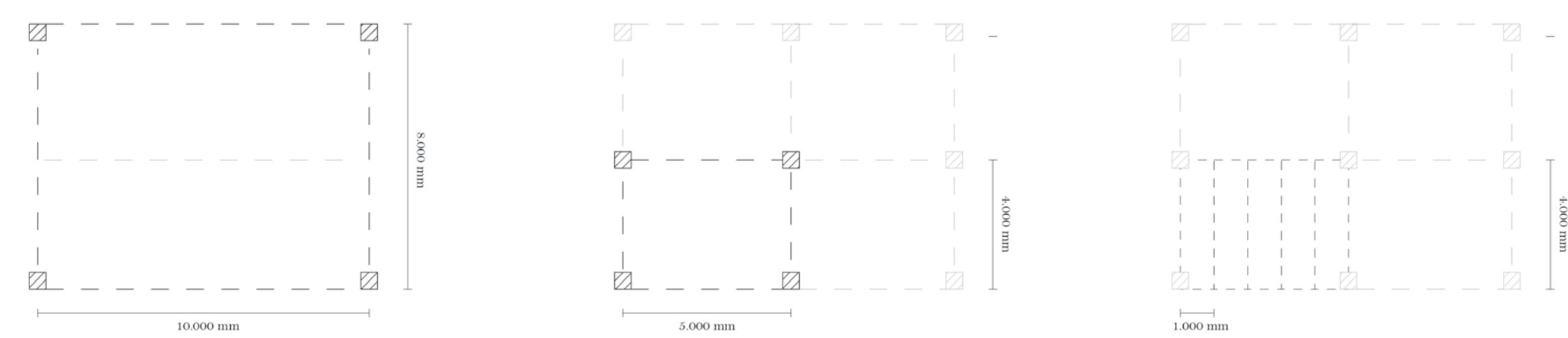
THE SECONDARY GRID
system of secondary or secondary grid CLT columns and beams to create secondary grid and smaller spatial elements

THE TERTIARY GRID
system of secondary or secondary grid CLT columns and beams to create secondary grid and smaller spatial elements

STRUCTURAL JOINT
2-rod grids for secondary columns with the secondary grid structure CLT columns structure and steel beam structure

EXPLODED AXONOMETRIC

JOINT ELEVATION



SUPER GRID
primary grid with the building structure columns on the outside of the grid to create an open floorplan

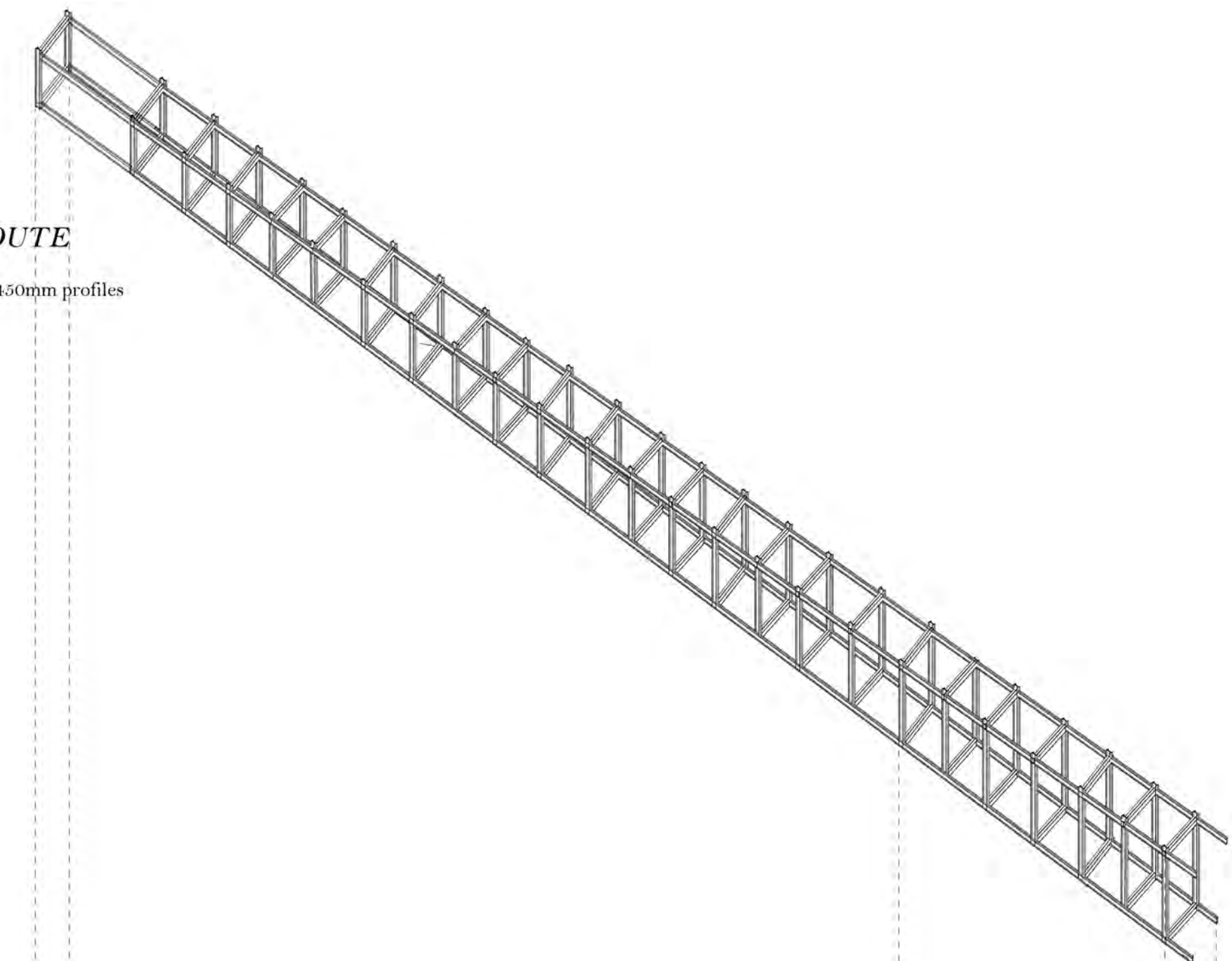
SECONDARY GRID
secondary grid, dividing super grid into smaller spatial elements

TERTIARY GRID
tertiary grid, existing out of removable lightweight floorplates

The hybrid structure of the bridge strip has a primary grid of 8000 x 20000 mm

LOGISTICAL AXIS & DO YOU DARE ROUTE

vierendeeliger with steel HEA 400mm profiles momentary connections



EXISTING STABILITY BEAMS
usage of the existing beams in the construction beams to gain stability and stiffness

CONCRETE CORE
elevator shaft used for stability

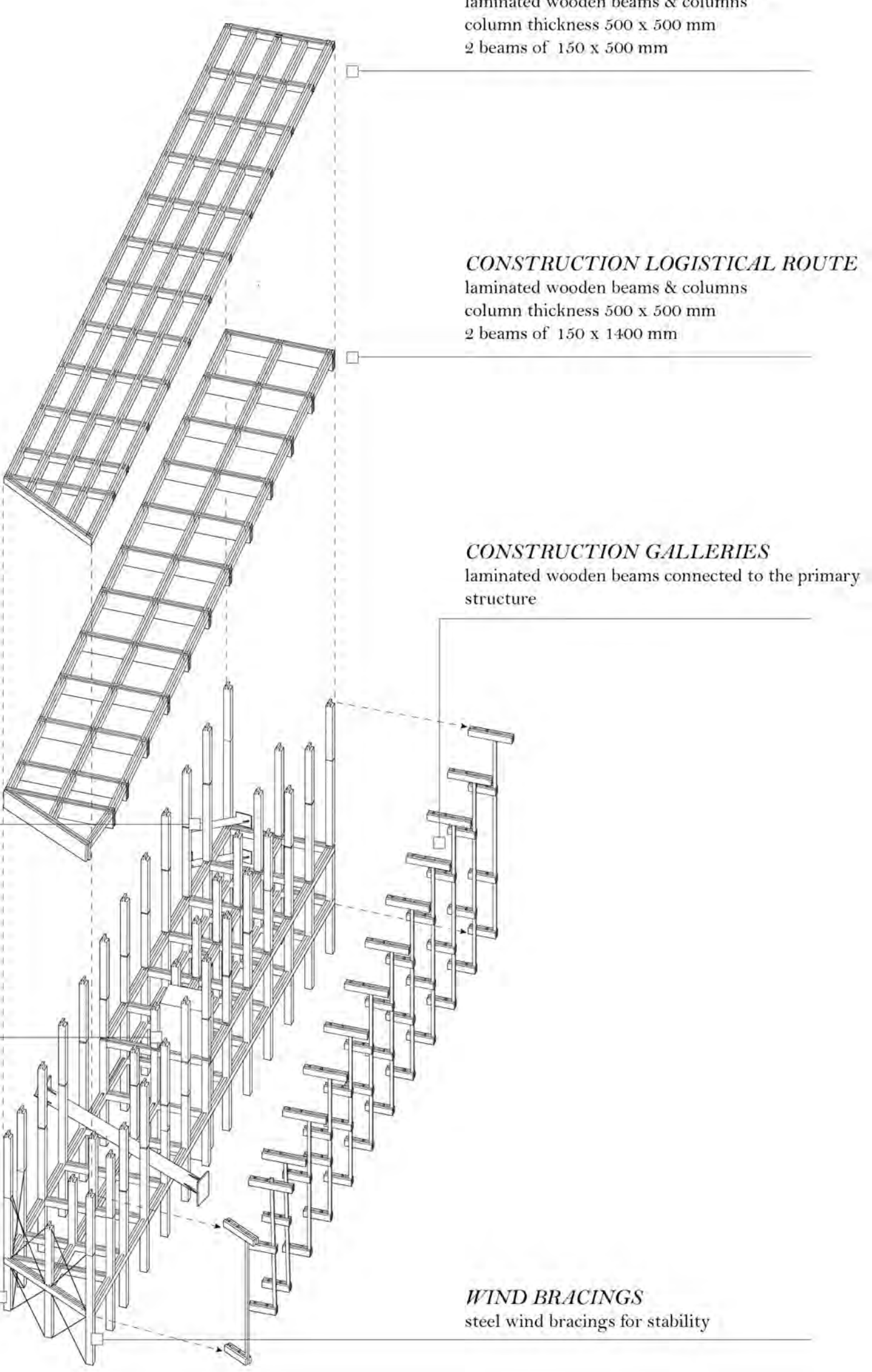
LOAD BEARING CONSTRUCTION
hybrid structure existing out of laminated wooden beams & columns column thickness 500 x 500 mm 2 beams of 150 x 1400 mm

CONSTRUCTION ENERGY ROOF
laminated wooden beams & columns column thickness 500 x 500 mm 2 beams of 150 x 500 mm

CONSTRUCTION LOGISTICAL ROUTE
laminated wooden beams & columns column thickness 500 x 500 mm 2 beams of 150 x 1400 mm

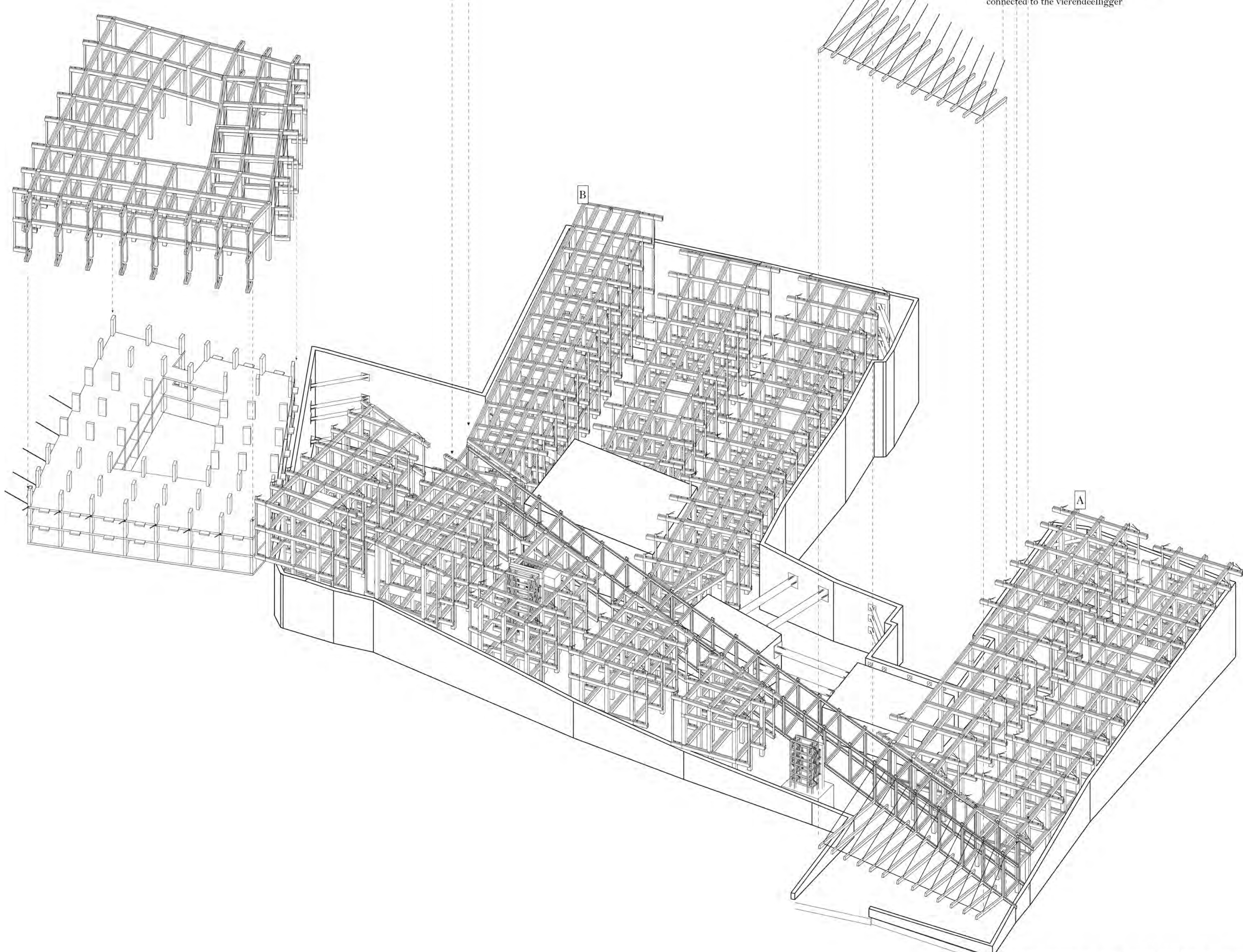
CONSTRUCTION GALLERIES
laminated wooden beams connected to the primary structure

WIND BRACINGS
steel wind bracings for stability



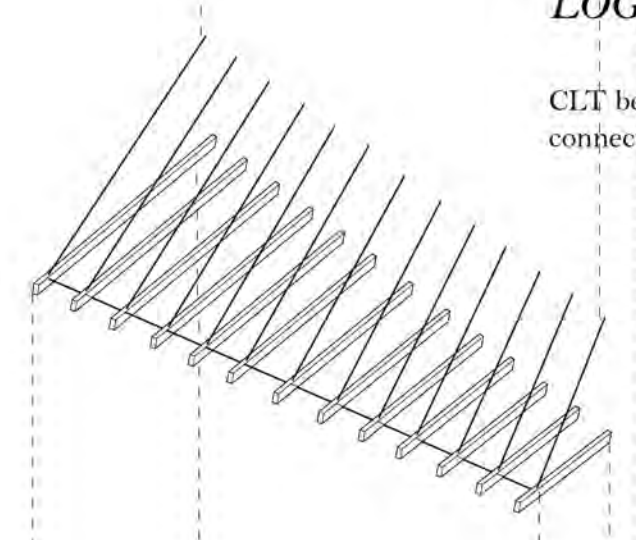
SEASONAL WORKERSHOTEL

Existing "naked" gentrification construction, with on top two floors of the hybrid CLT structure



LOGISTICAL SQUARE

CLT beams (150 x 500 mm) and steel cables connected to the vierendeeliger



LOGISTICAL STRIP & WORKSHOP STRIP

Exception in gridsystem due to logistical ramp super grid (8000 x 30000 mm) secundair grid (4000 x 30000 mm)

STIFFNESS
floors spanning from side to side (8000 mm)

CONSTRUCTION WASTE P.
laminated wooden beams & columns column thickness 500 x 500 mm 2 beams of 150 x 200 mm

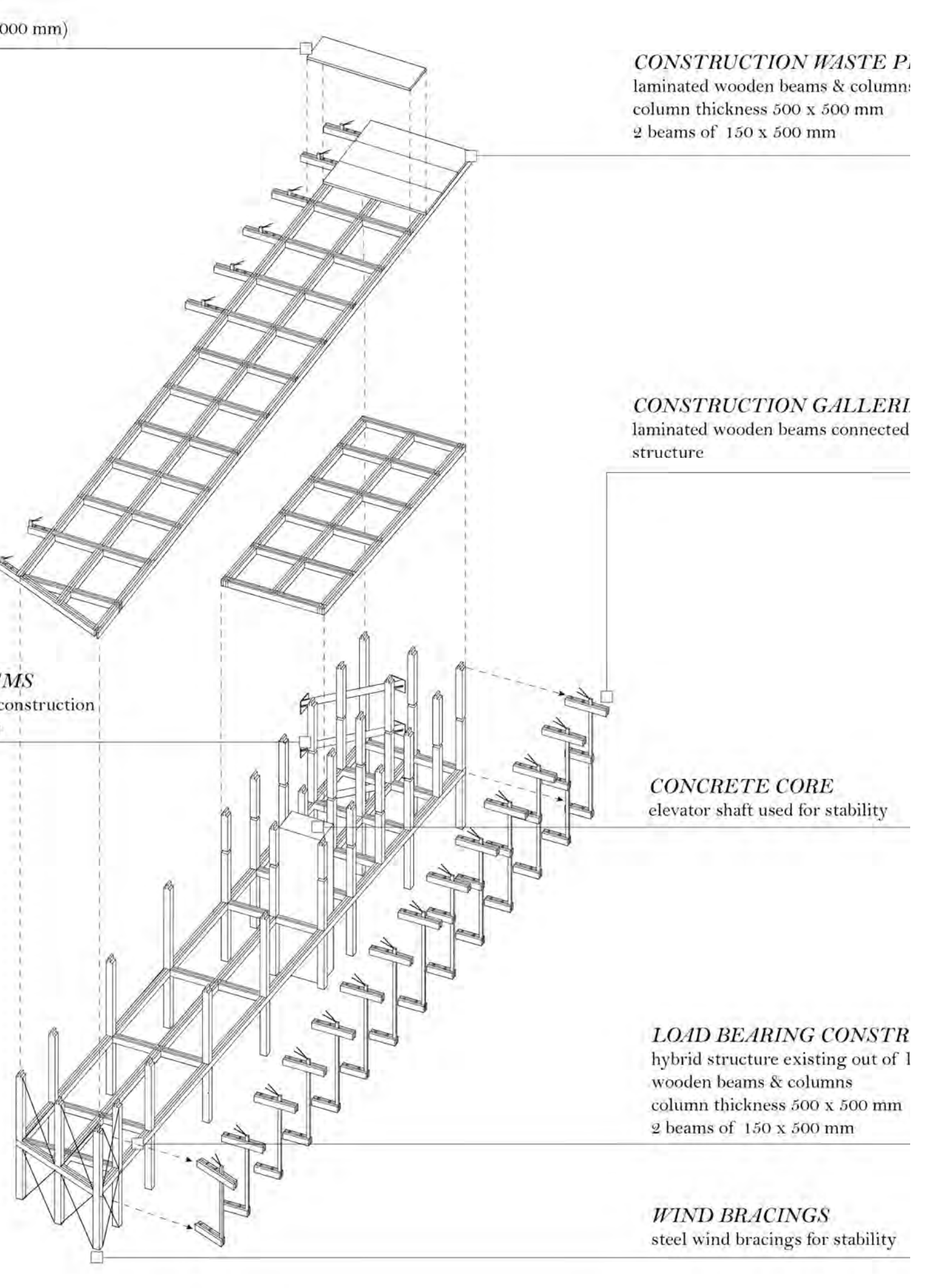
CONSTRUCTION GALLERY
laminated wooden beams connected structure

EXISTING STABILITY BEAMS
usage of the existing beams in the construction beams to gain stability and stiffness

CONCRETE CORE
elevator shaft used for stability

LOAD BEARING CONSTR
hybrid structure existing out of 1 wooden beams & columns column thickness 500 x 500 mm 2 beams of 150 x 500 mm

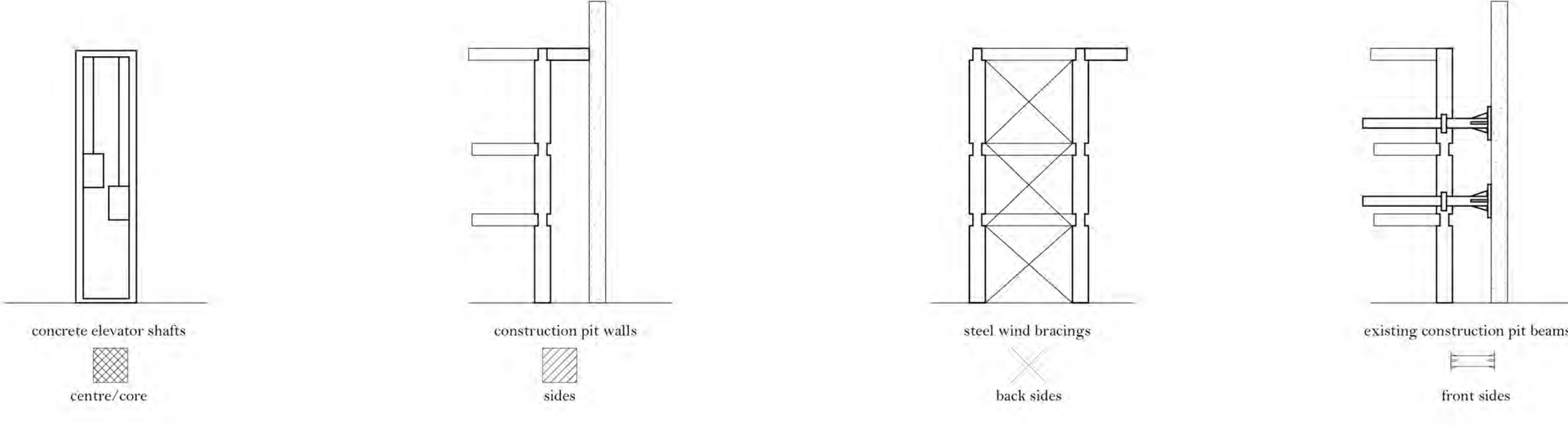
WIND BRACINGS
steel wind bracings for stability



STRUCTURAL AXONOMETRIC OF THE HYBRID STRUCTURE

WORKSHOP STRIP

super grid (8000 x 10000 mm) & secundair grid (4000 x 30000 mm)

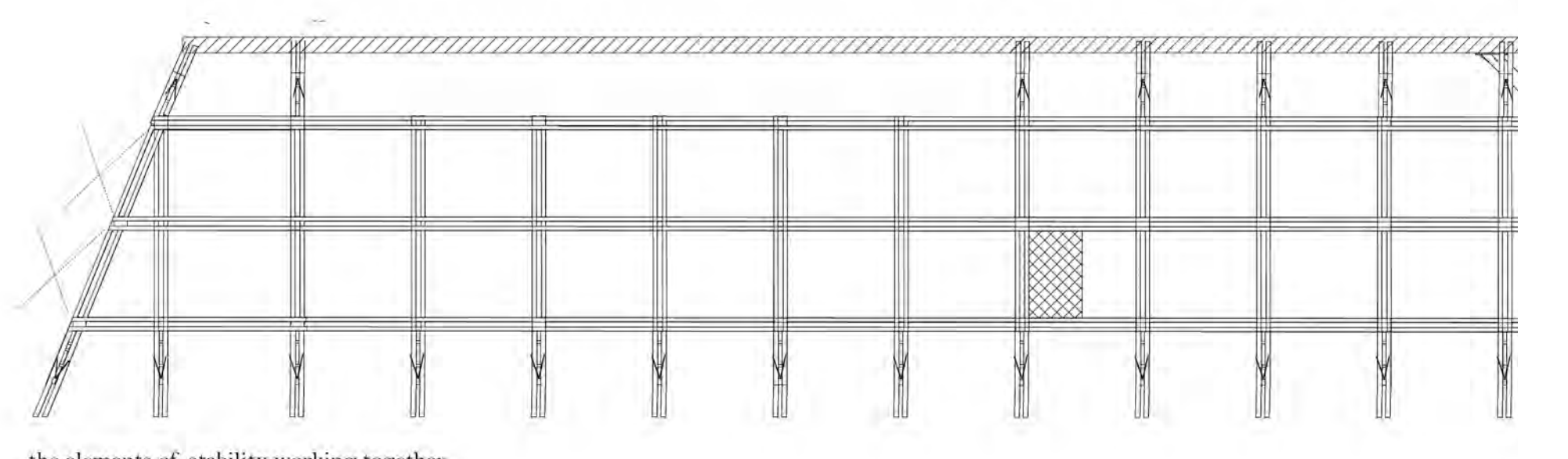


concrete elevator shafts
centre/core

construction pit walls
sides

steel wind bracings
back sides

existing construction pit beams
front sides



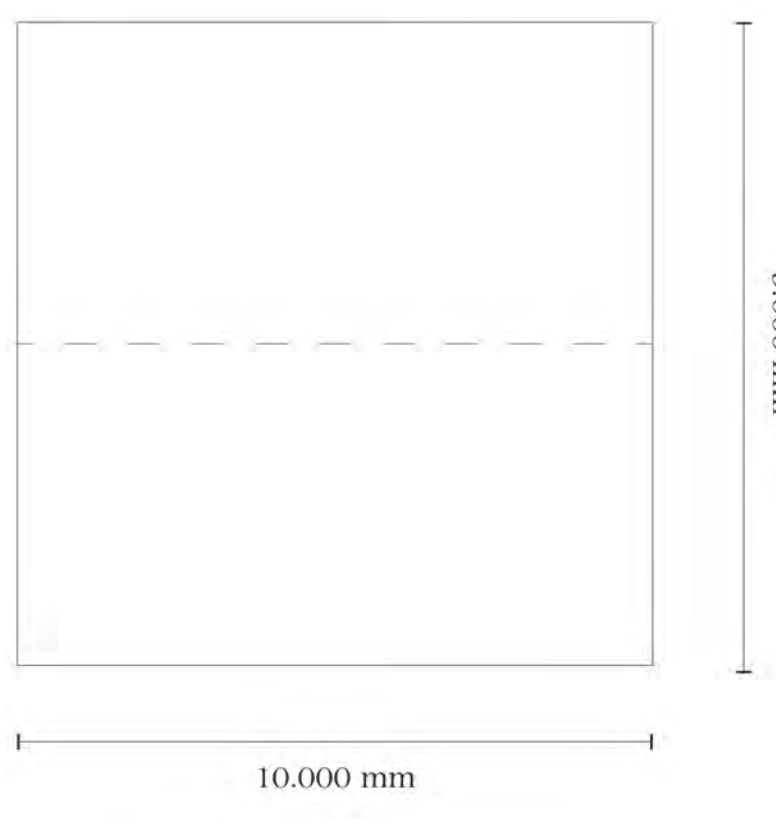
the elements of stability working together

ELEMENTS OF STABILITY

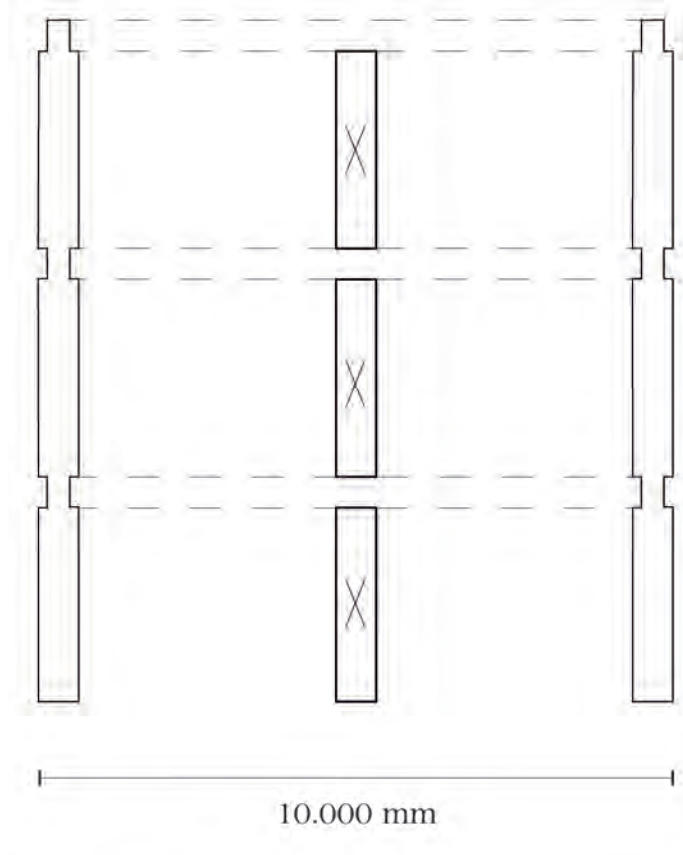
HOW TO LOSE CONTROL?

adaptivity

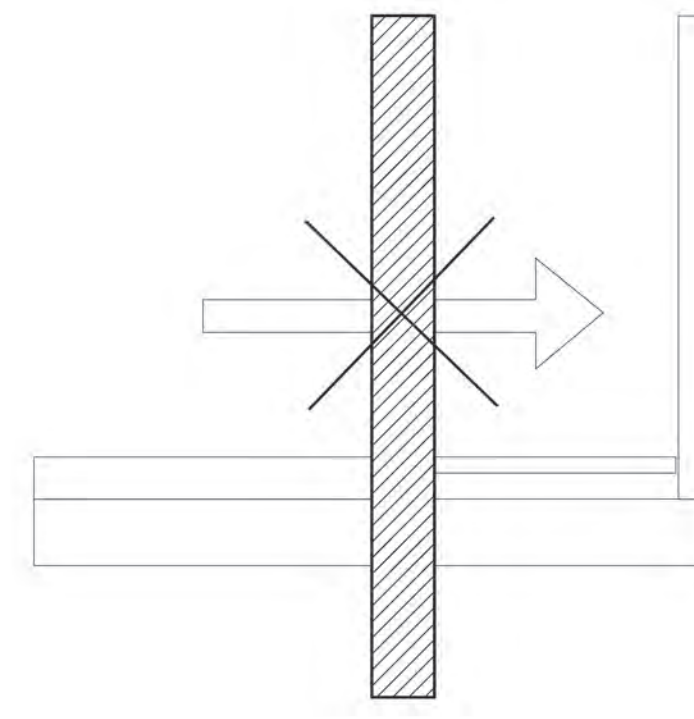
RULES OF CONTROL
to guide a small part of the process via a protocol



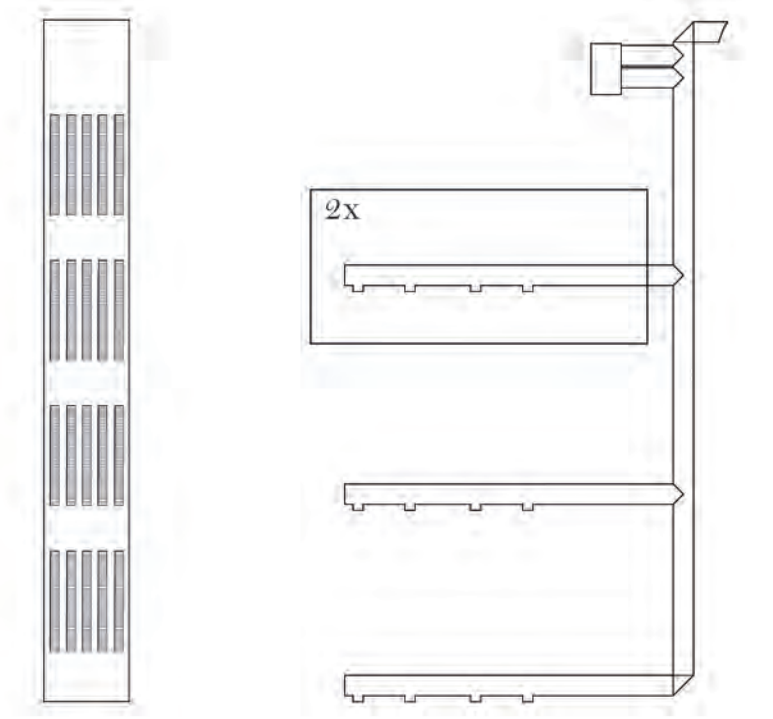
1 MAXIMUM WORKSHOP SIZE
Control over the maintenance of small-scale practices



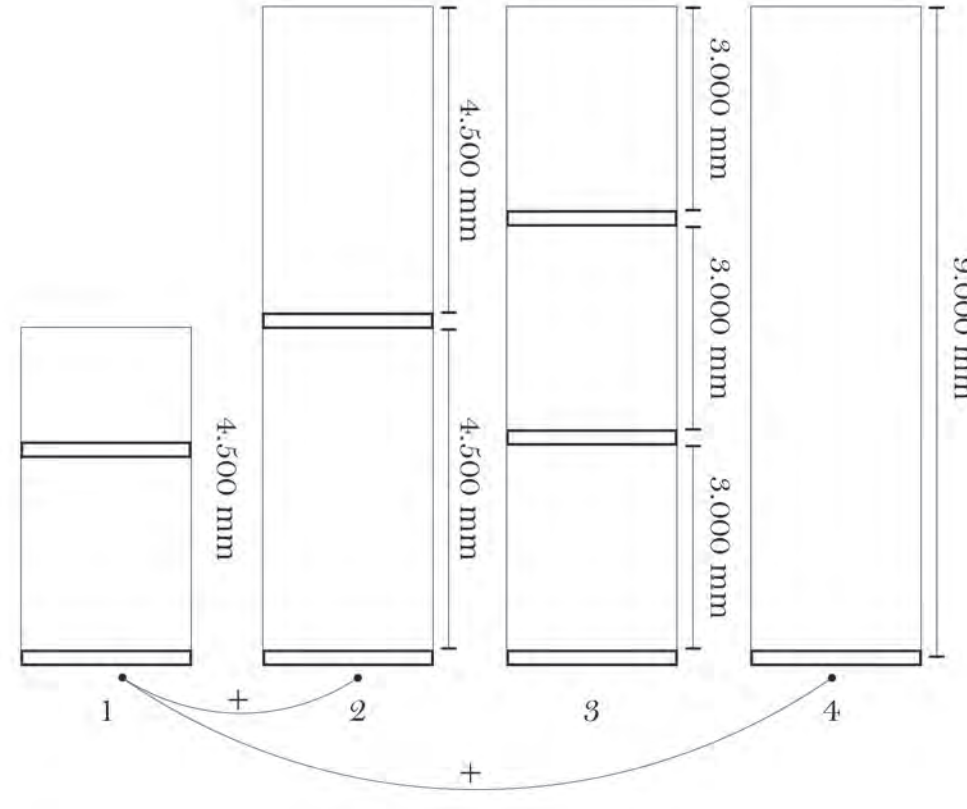
2 TRANSFORMATION TO SUPERGRID
Only marked columns are allowed to be removed



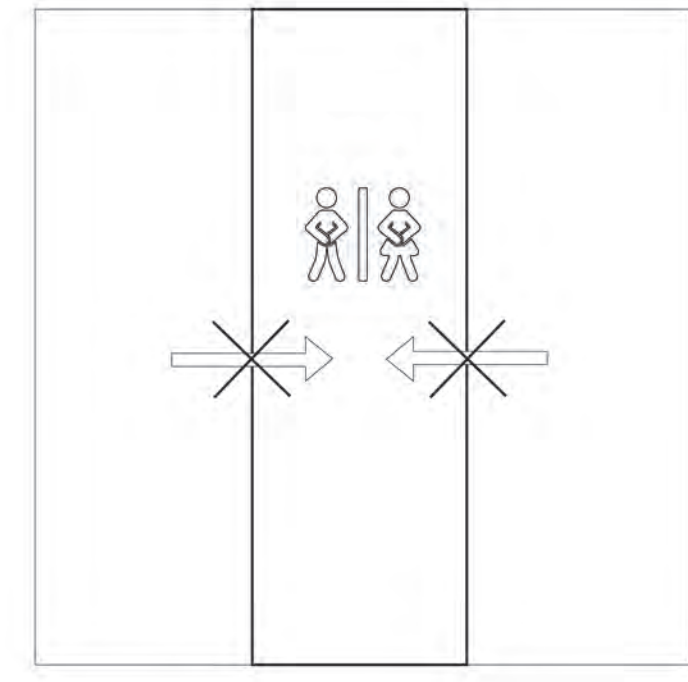
3 KEEP ROUTING FREE
Galleries on both sides of the strips are not allowed to be occupied due growing practices



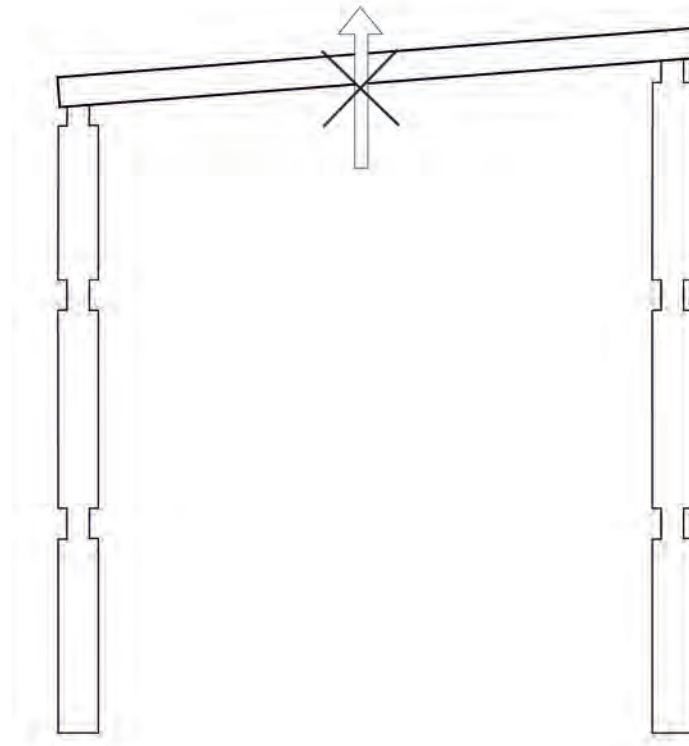
4 NON REMOVABLE CLIMATE ELEMENTS
Climate panels cannot be replaced. At least two ventilation tubes per workplace, because of heating.



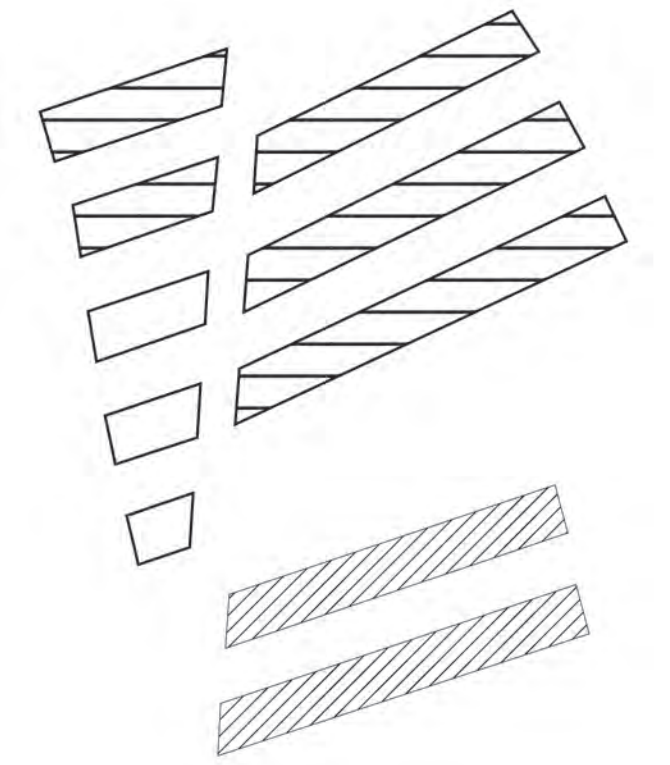
5 MAXIMUM OF FOUR FLOOR CONFIGURATIONS
Climate panels cannot be replaced. At least two ventilation tubes per workplace, because of heating. Combinations between configurations 1, 2 & 4 are possible



6 NECESSARY FUNCTIONS CANNOT BE PRIVATIZED
Necessary functions such as toilet units, communal platforms and internal routing cores cannot be occupied by an informal practice. However communal strips can be privatized in the future in the case it turns out to be unnecessary.



7 SLOPED ROOFS ARE THE LIMIT OF VERTICAL GROWTH
The building cannot get higher than the sloped roofs



8 THE SYSTEM AS A WHOLE MUST BE COMPLIED WITH *
The system of sorting, disassembly, reassembly, and community and trade locations must remain intact.

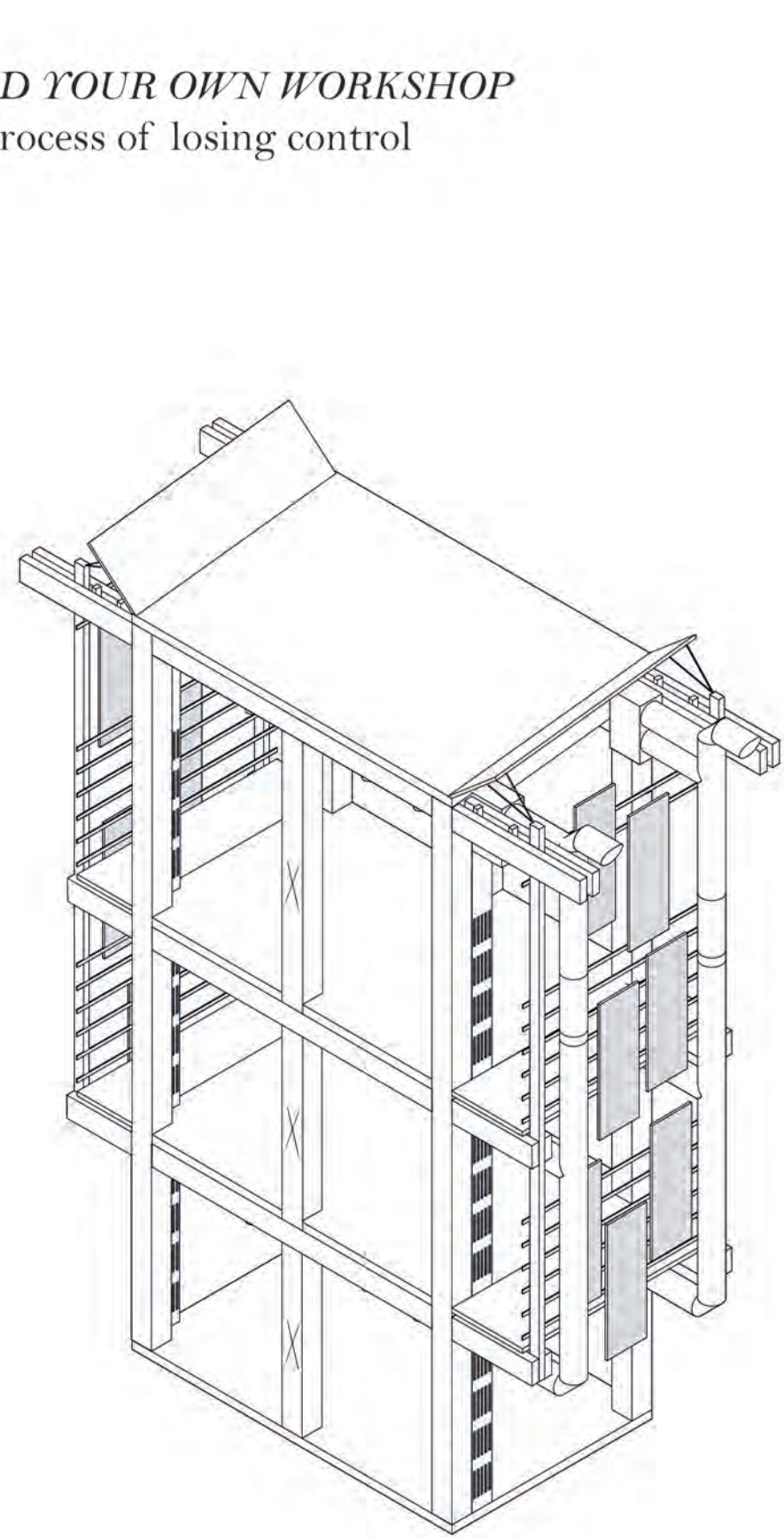
* If it turns out that this system can be optimized by a different arrangement of the strips, this rule can be broken.

TOOLS OF SELF REGULATION

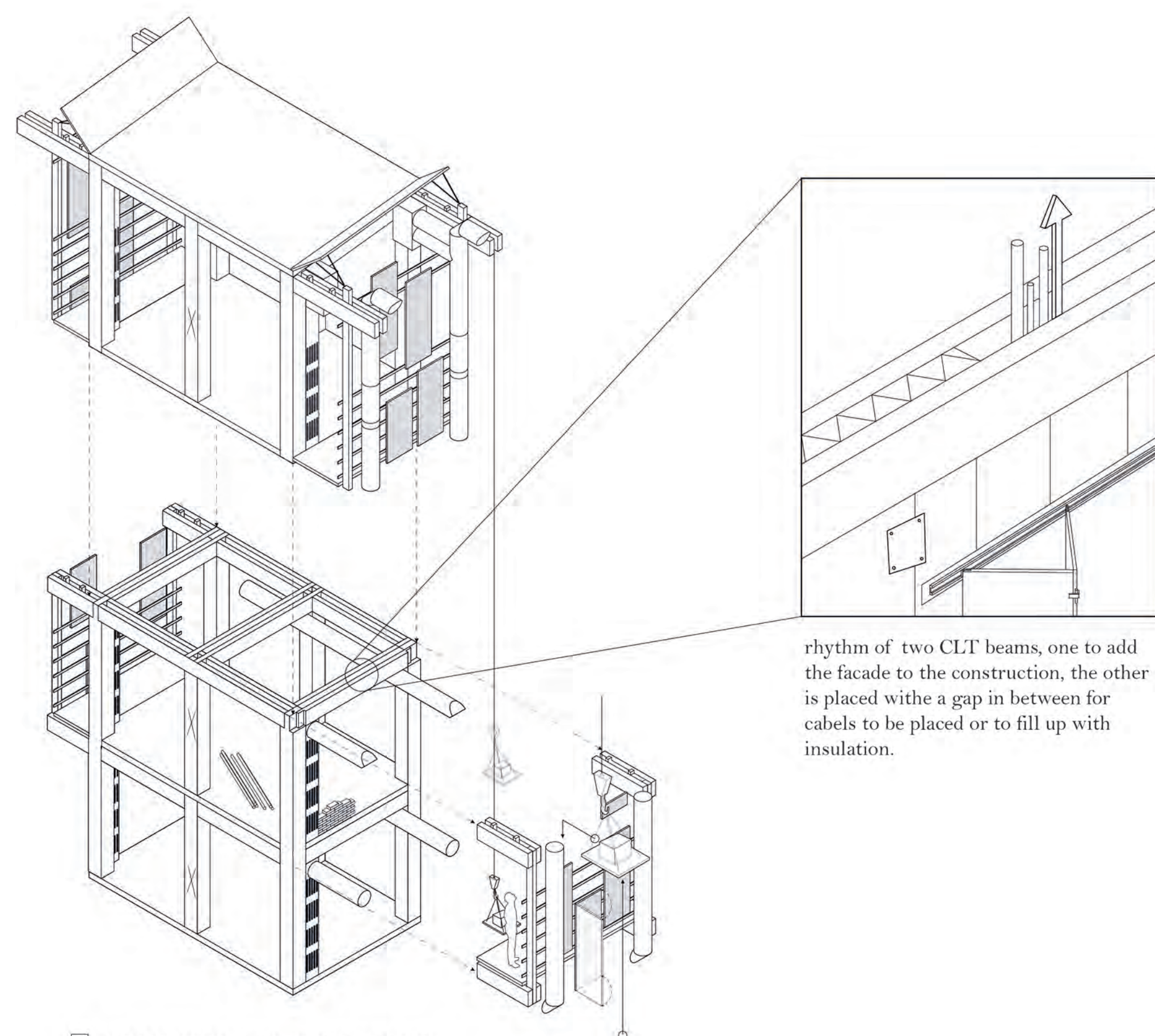
A story about a growing structure

BUILD YOUR OWN WORKSHOP

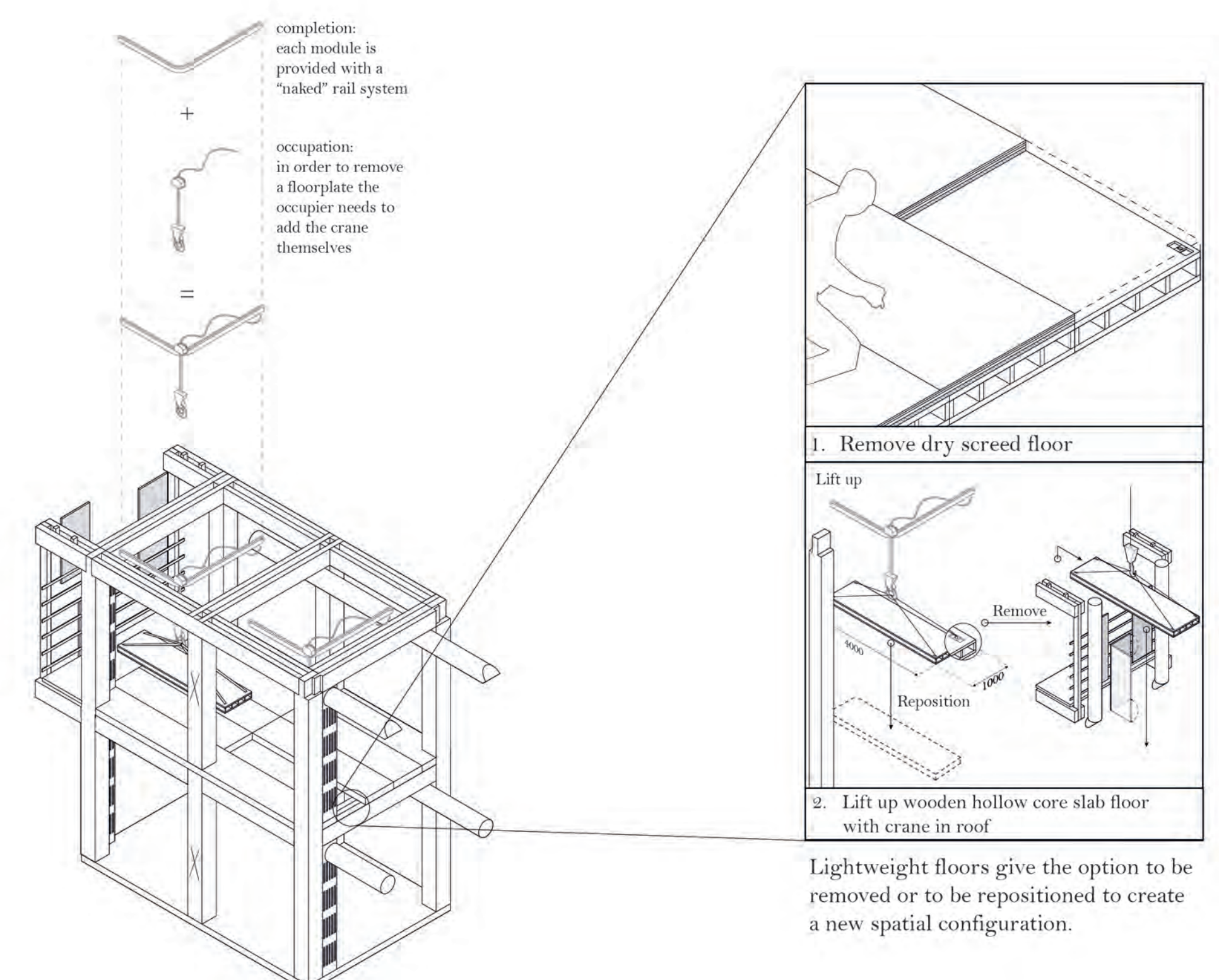
The process of losing control



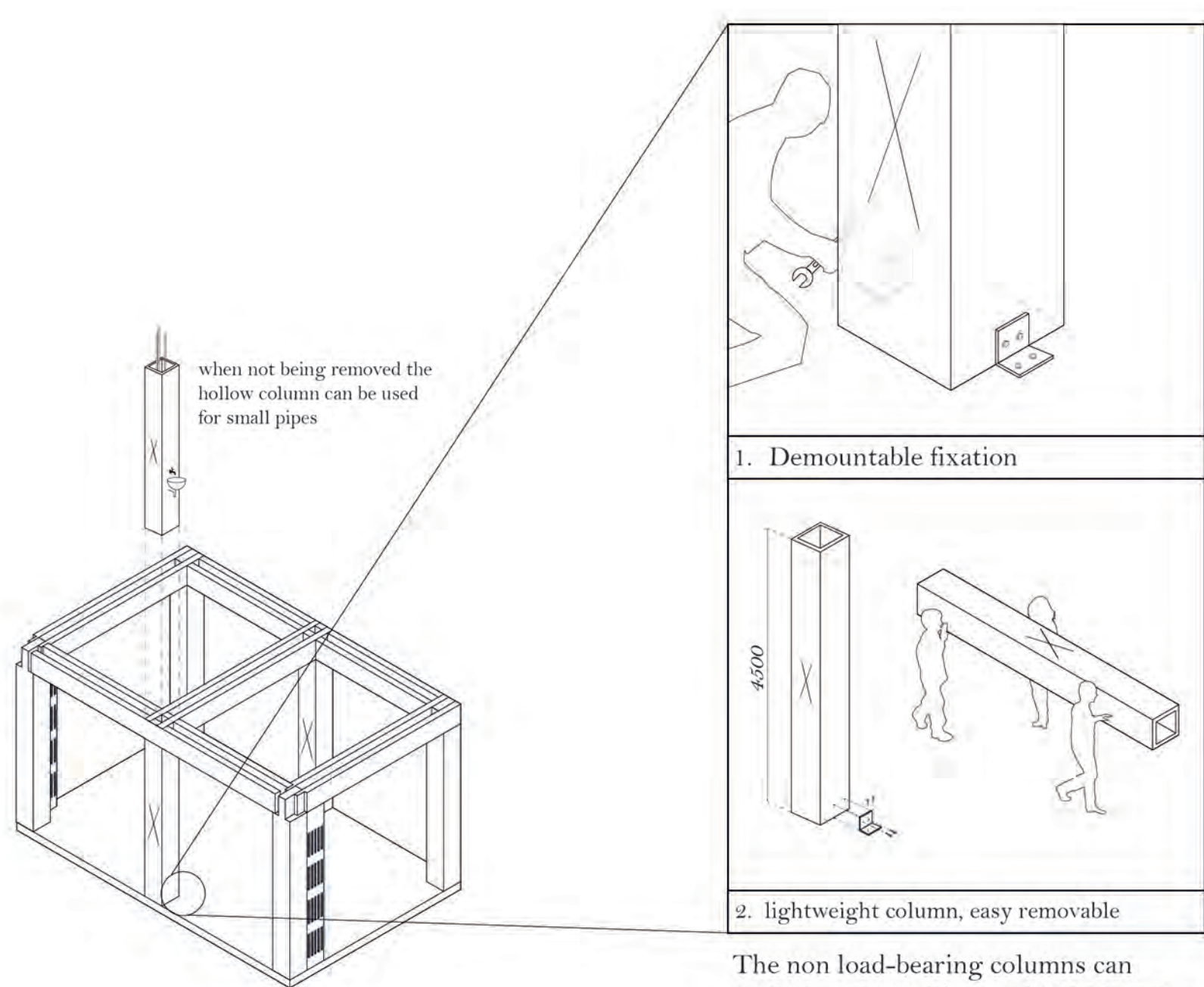
1 NAKED STRUCTURE
The completed structure without being occupied



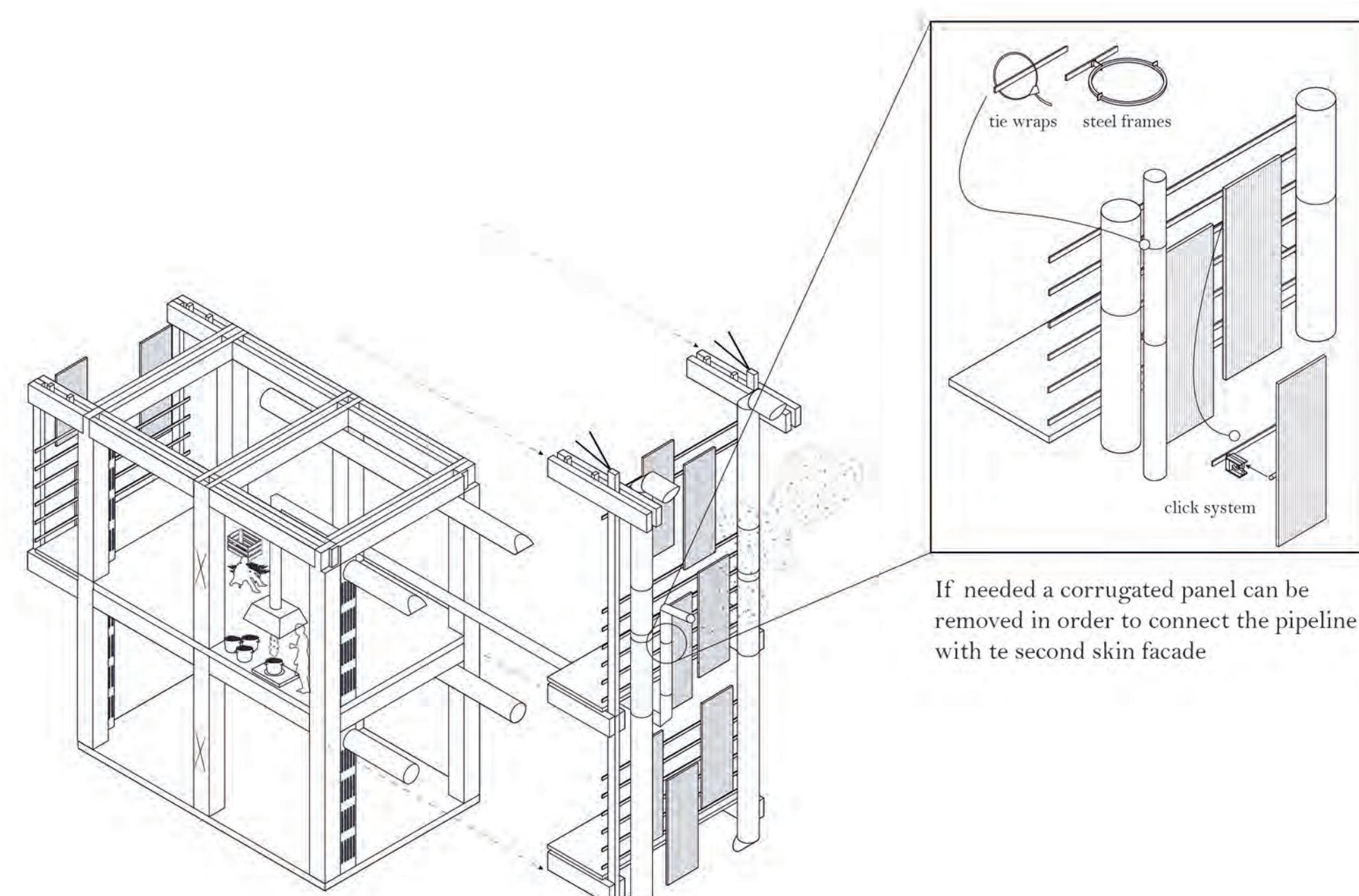
2 ADDITION OF YOUR OWN FACADE
Materials can be lifted with cranes attached to the structure



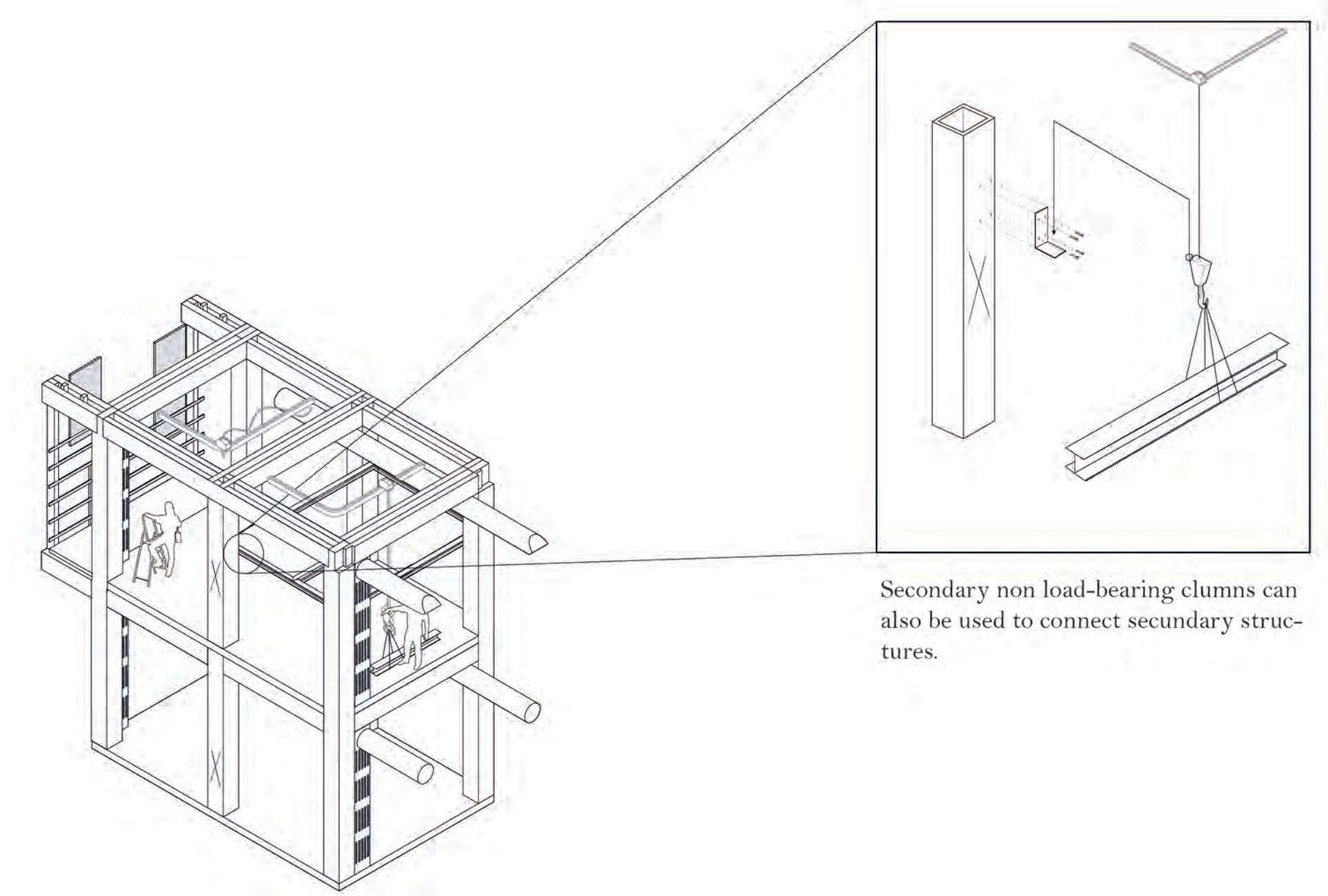
3 REMOVE A FLOOR
How to remove a wooden hollow core slab floor



4 REMOVE A COLUMN
Change your grid system from the secondary grid into the primary grid!

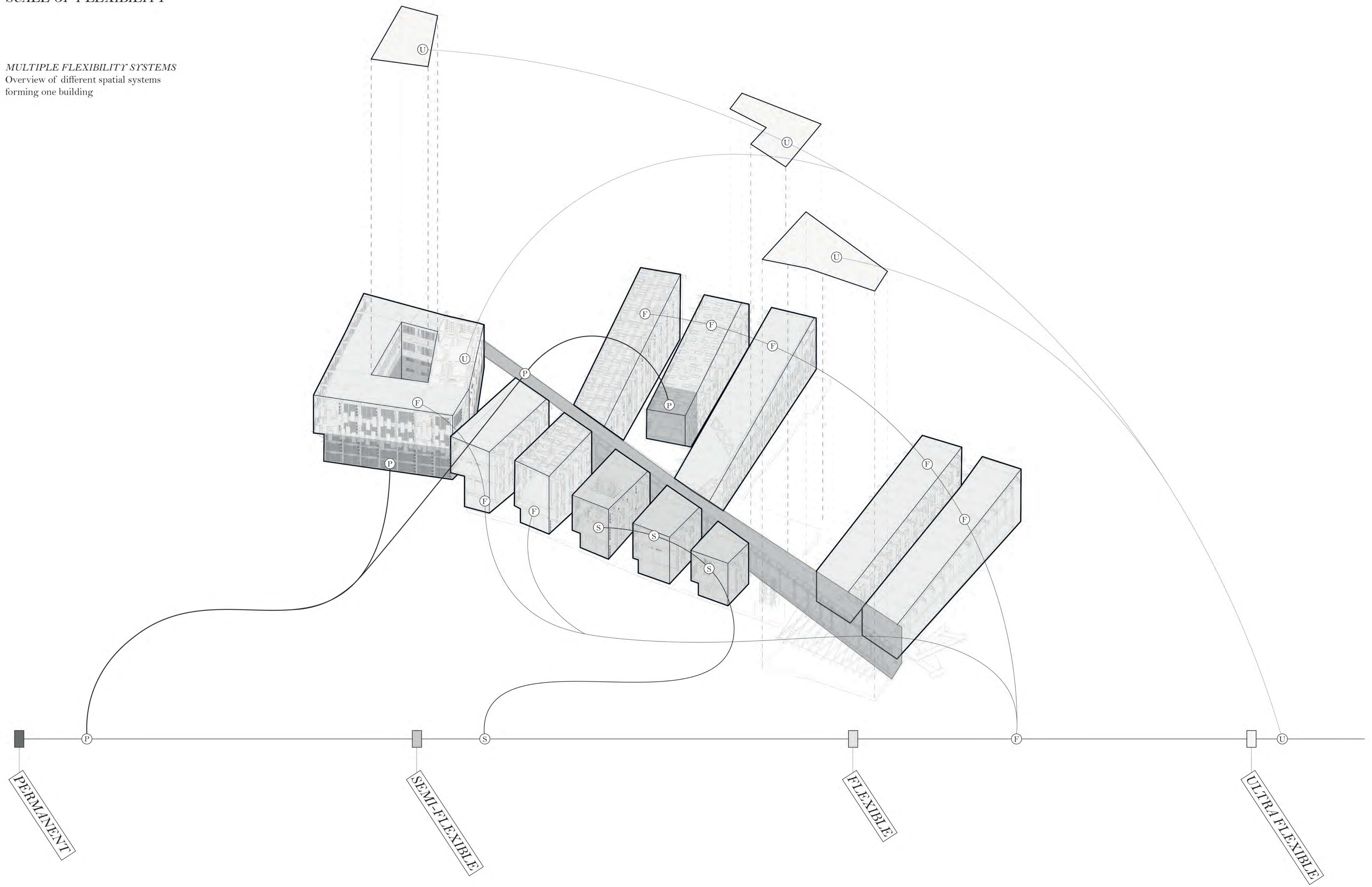


5 CONNECT EXTRA PIPELINES
Connect big pipelines to your workshop with the skin facade, if necessary



6 ADD A SECONDARY STRUCTURE
How to add a new floor and structure?

MULTIPLE FLEXIBILITY SYSTEMS
Overview of different spatial systems
forming one building

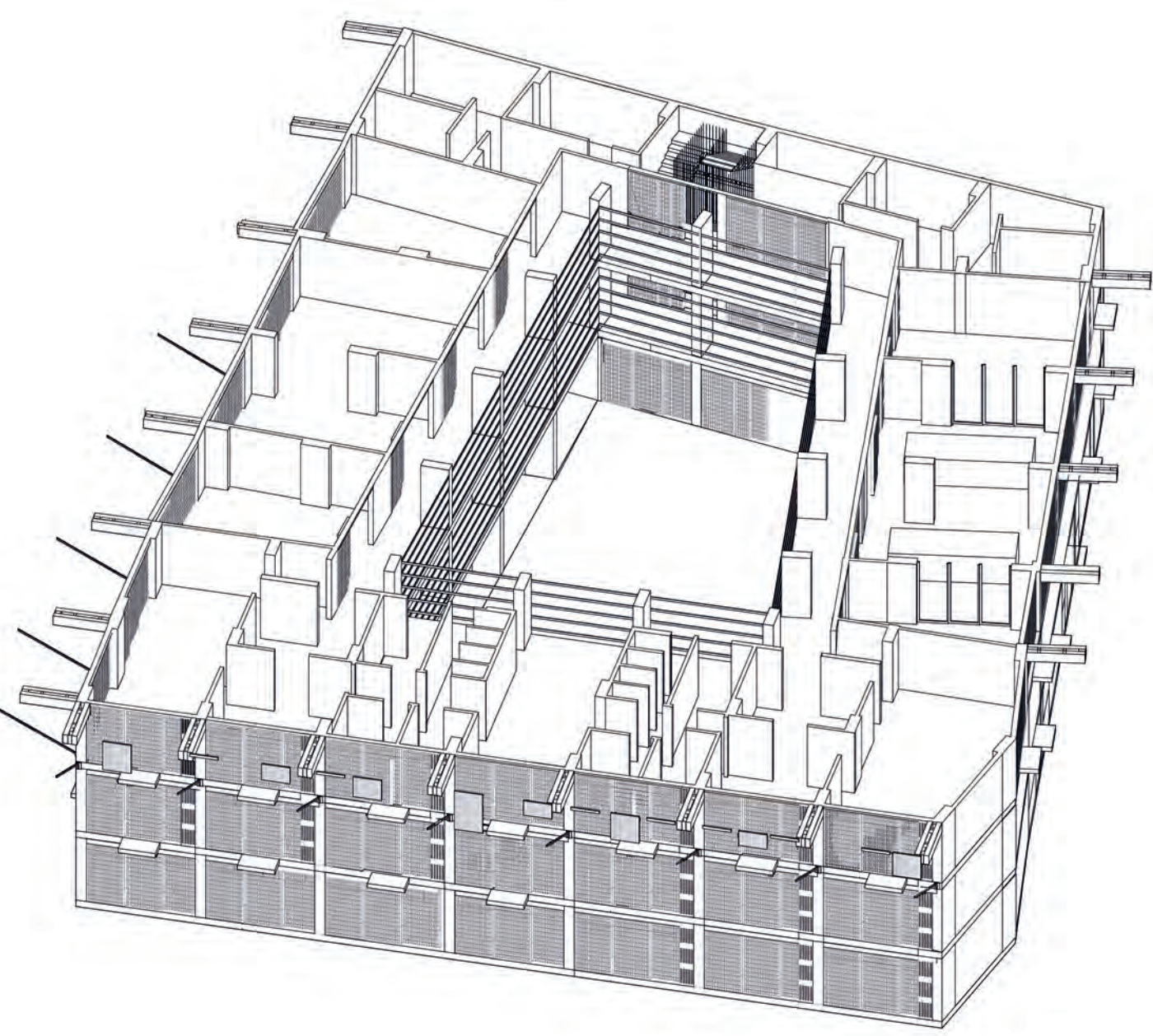


P Elements of the building that cannot be changed over time.

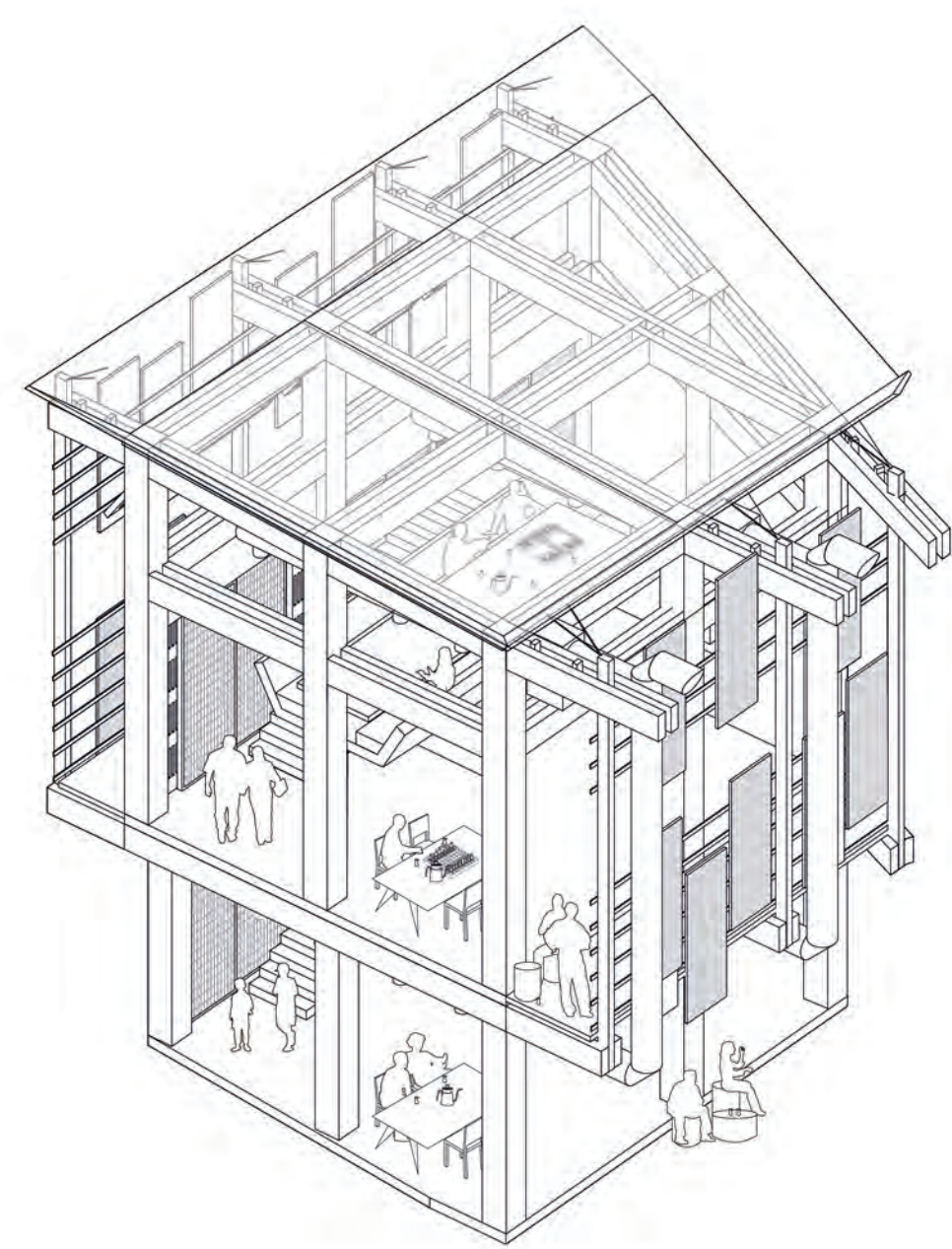
S Same structural principle as the hybrid structure, but used as community spaces. These spaces can be privatized in the future but is not necessarily desirable.

F Usage of the hybrid CLT structure, that can be changed according to the needs of the occupier. Although changes to the structure are only possible by actions of the occupier.

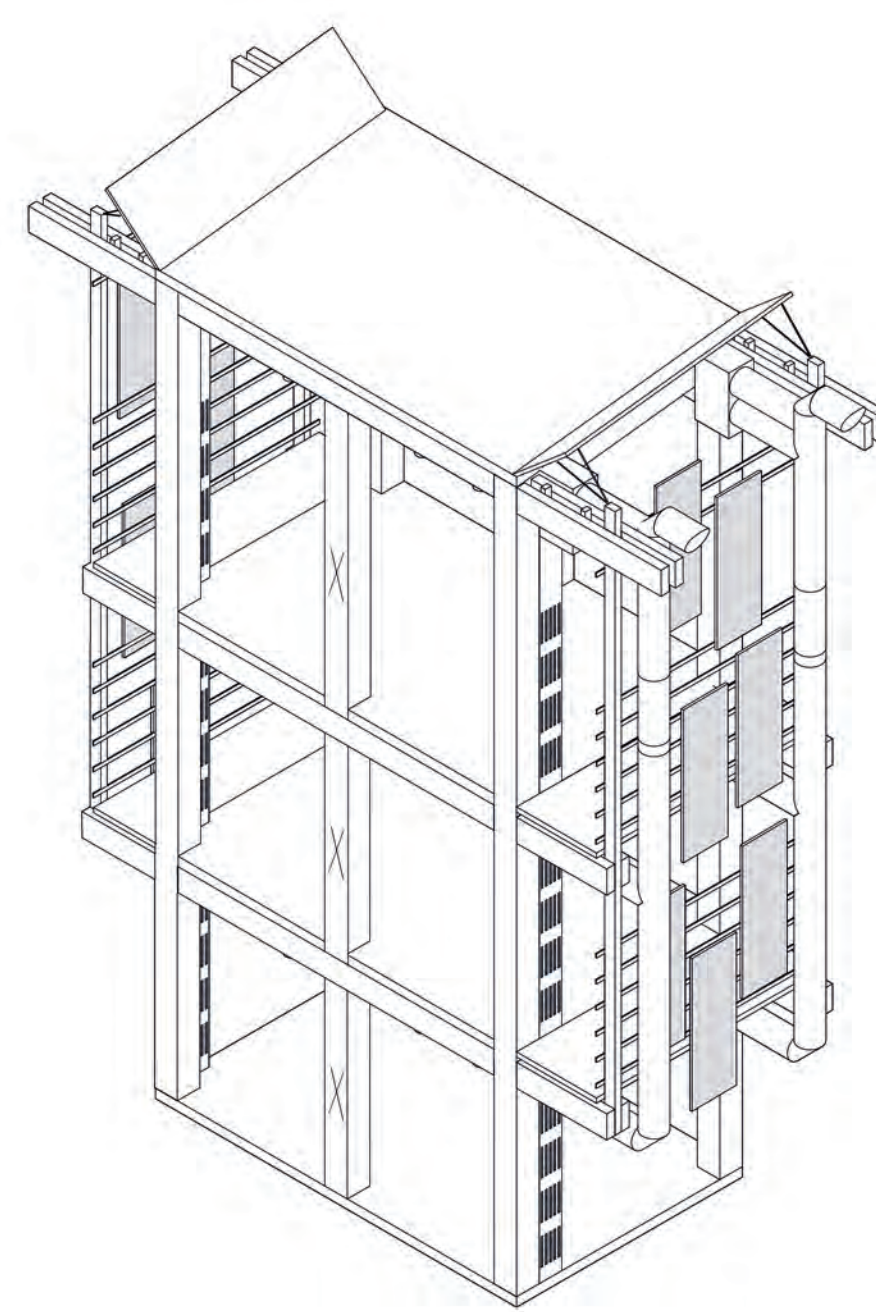
U The ultra flexible spaces are open & communal spaces, that can be used in multiple ways. Changes to these spaces are taking less effort and there are less elements of spatial control.



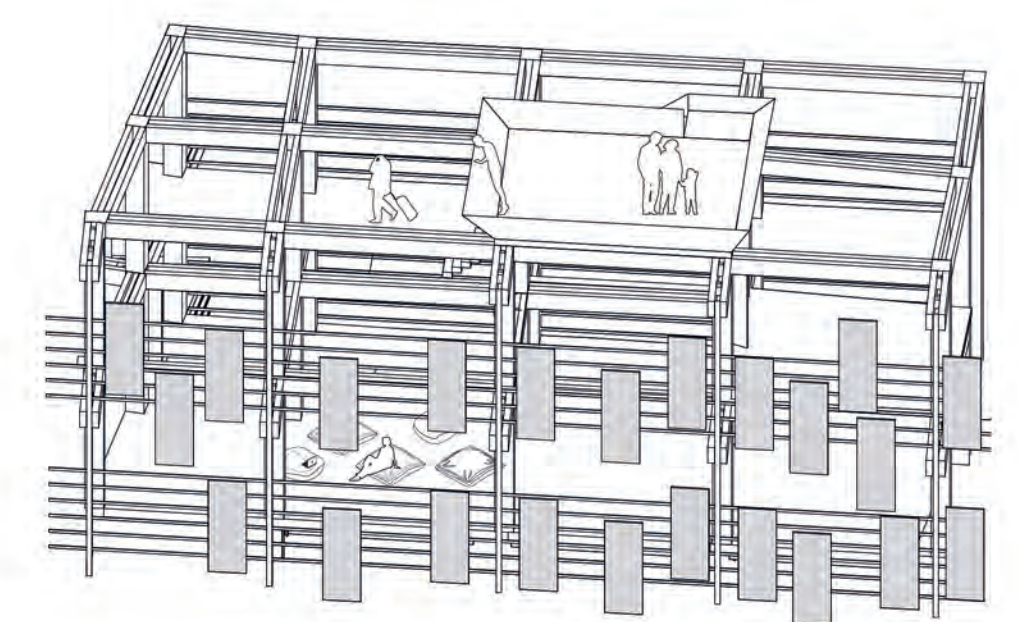
1 RE-USED CONCRETE GENTRIFICATION STRUCTURE
The structure of the seasonal workers hotel is permanent, offering different type of rooms and communal spaces.



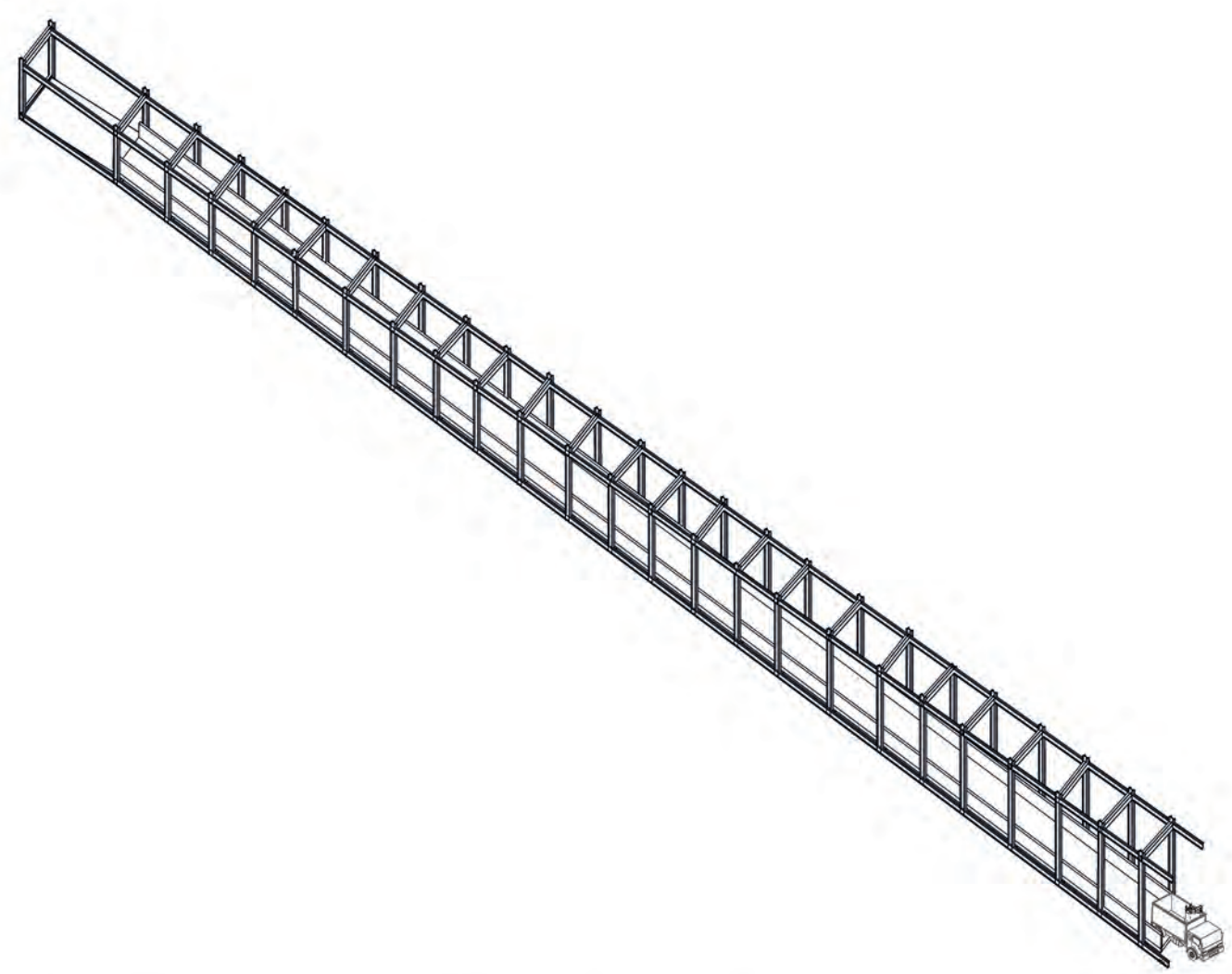
1 COMMUNAL HYBRID STRUCTURE STRIPS
The structure and grids are the same in the communal strips, which gives the option to the strips to be privatized or changed in the future



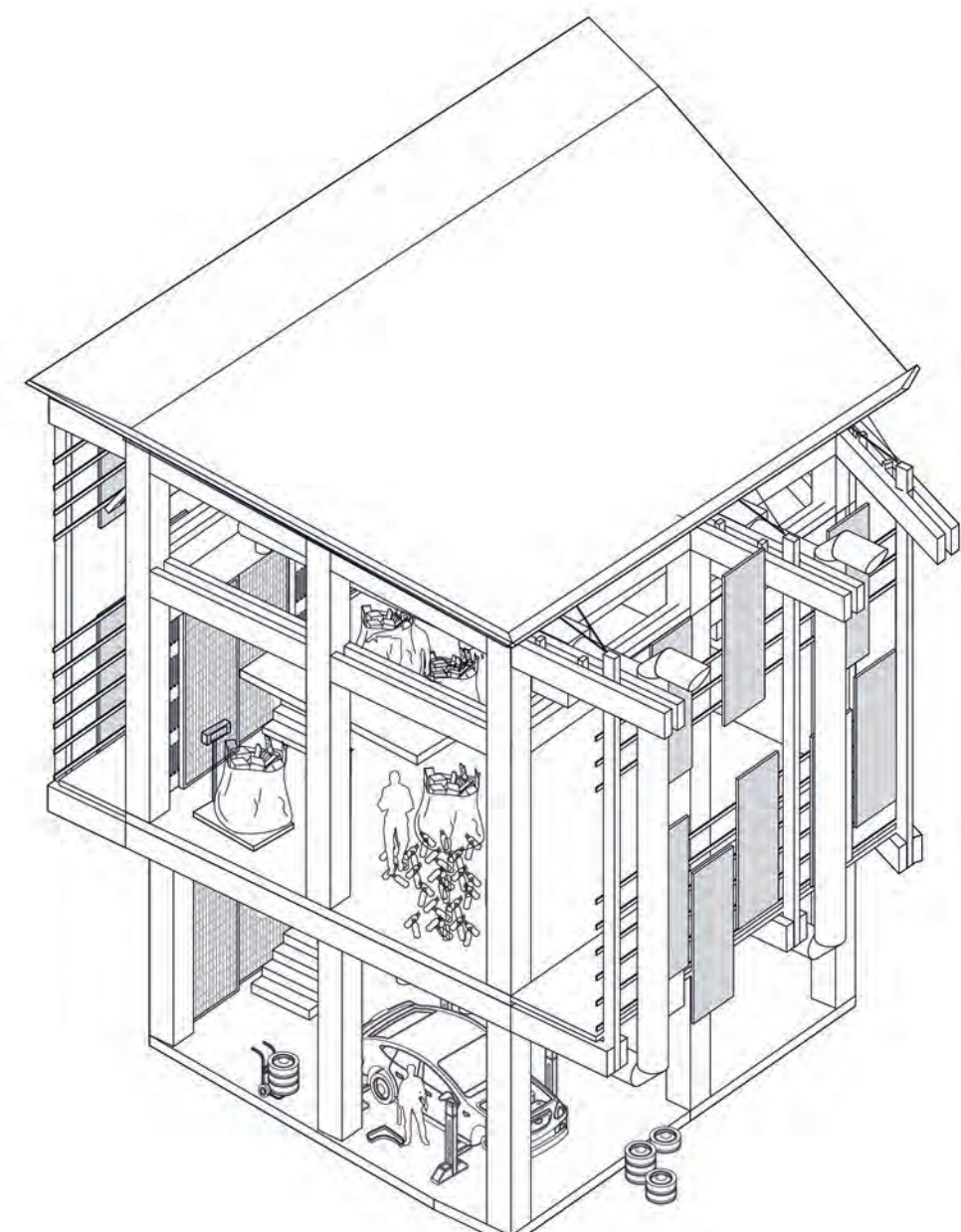
1 THE HYBRID WORKSHOP STRUCTURE
The completed structure being occupied by the informal world



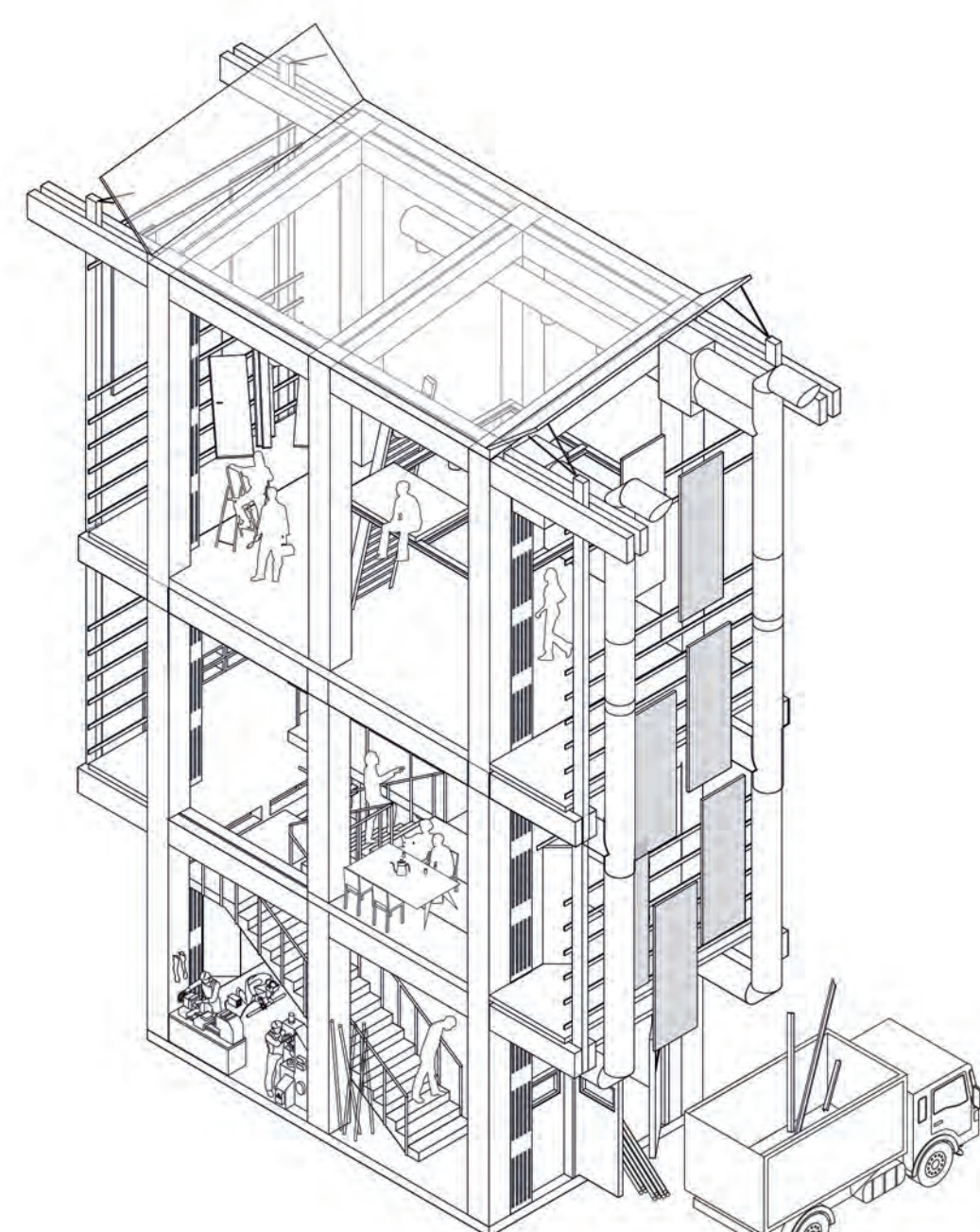
1 PLACE OF COMMUNITY LIFE SEASONAL WORKERS HOTEL
This CLT hybrid structure on top of the seasonal workers hotel functions as a flexible space that can be changed due its activities. There are also platforms that can be transformed in for example a gardening platform.



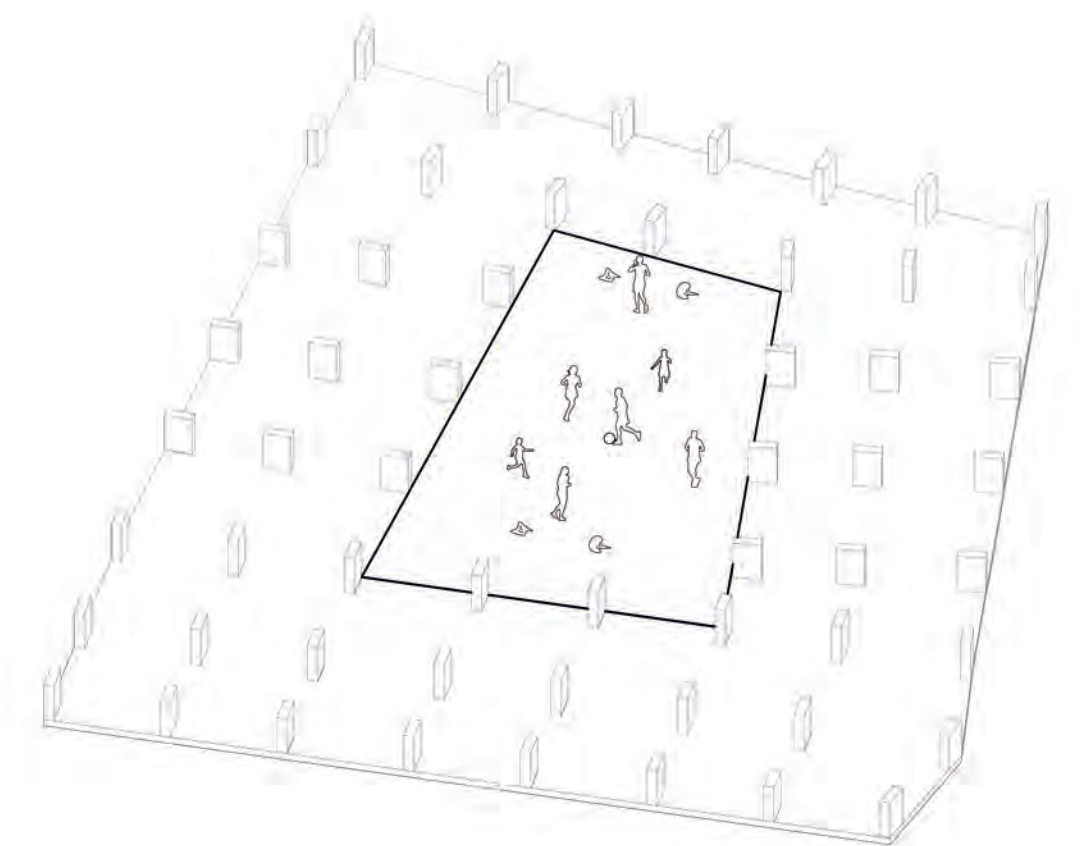
2 THE LOGISTICAL VIERENDEELIGGER
This steel vierendeeliger construction functions as an important internal routing system. Therefore it is permanent, also if for example small trucks will be displaced by more sustainable transport.



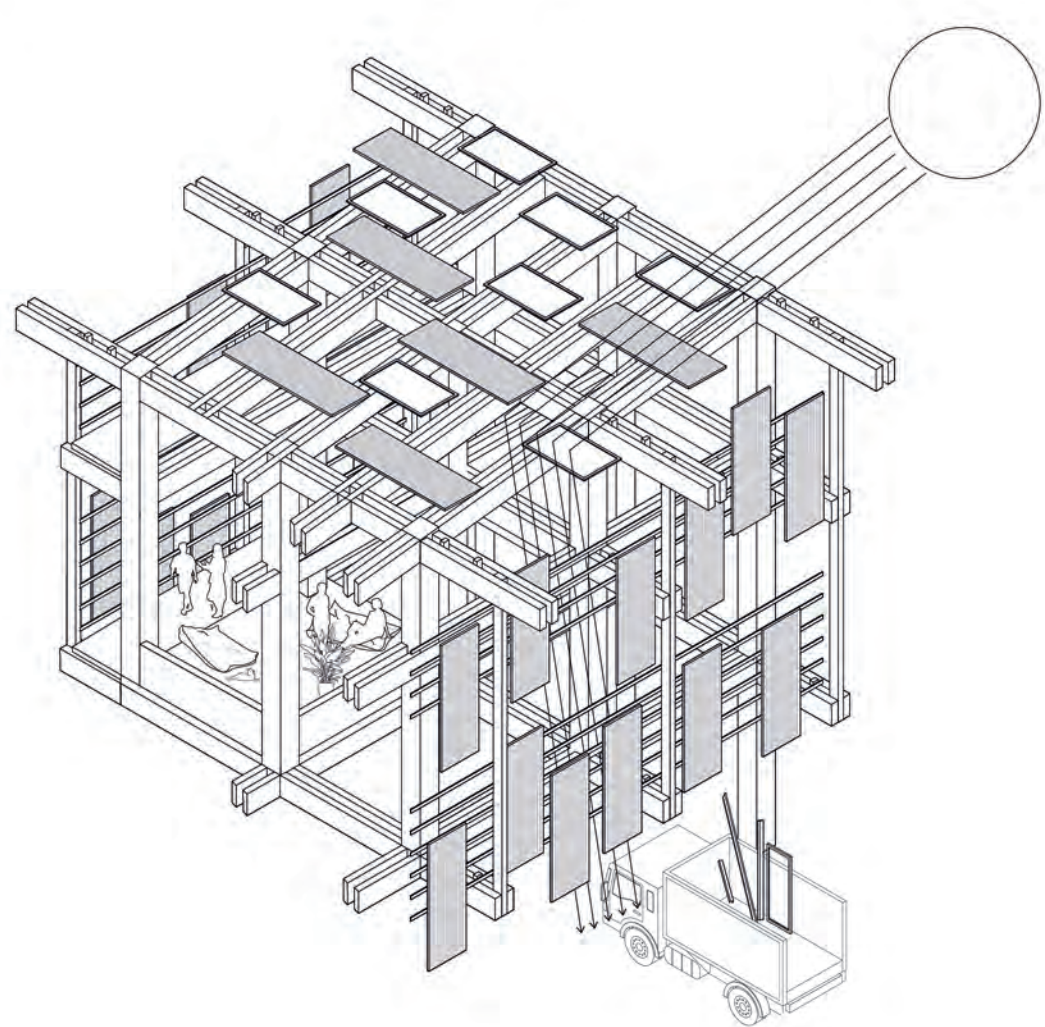
2 SEASONAL WORKERSHOTEL ROOM
The sliding doors make it possible to change a small family room into a large family room (two rooms configured into one) or to change it to one big hostel room (three rooms configured into one big room).



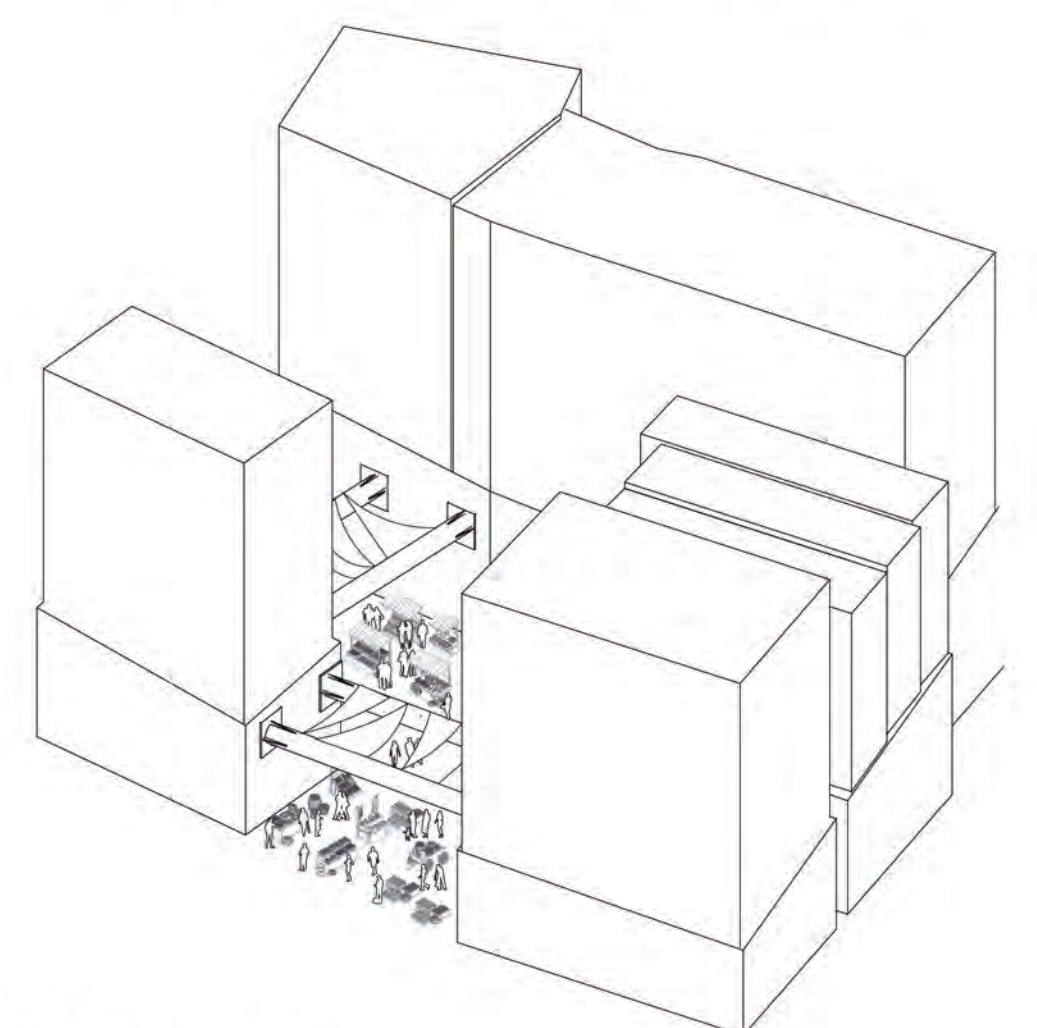
2 PERMANENT WORKERS HOUSE
Half of this house is finished, with functions such as sanitary and kitchen facilities integrated. The unfinished part is also using the CLT hybrid structure and can be built by the occupier itself in the future.



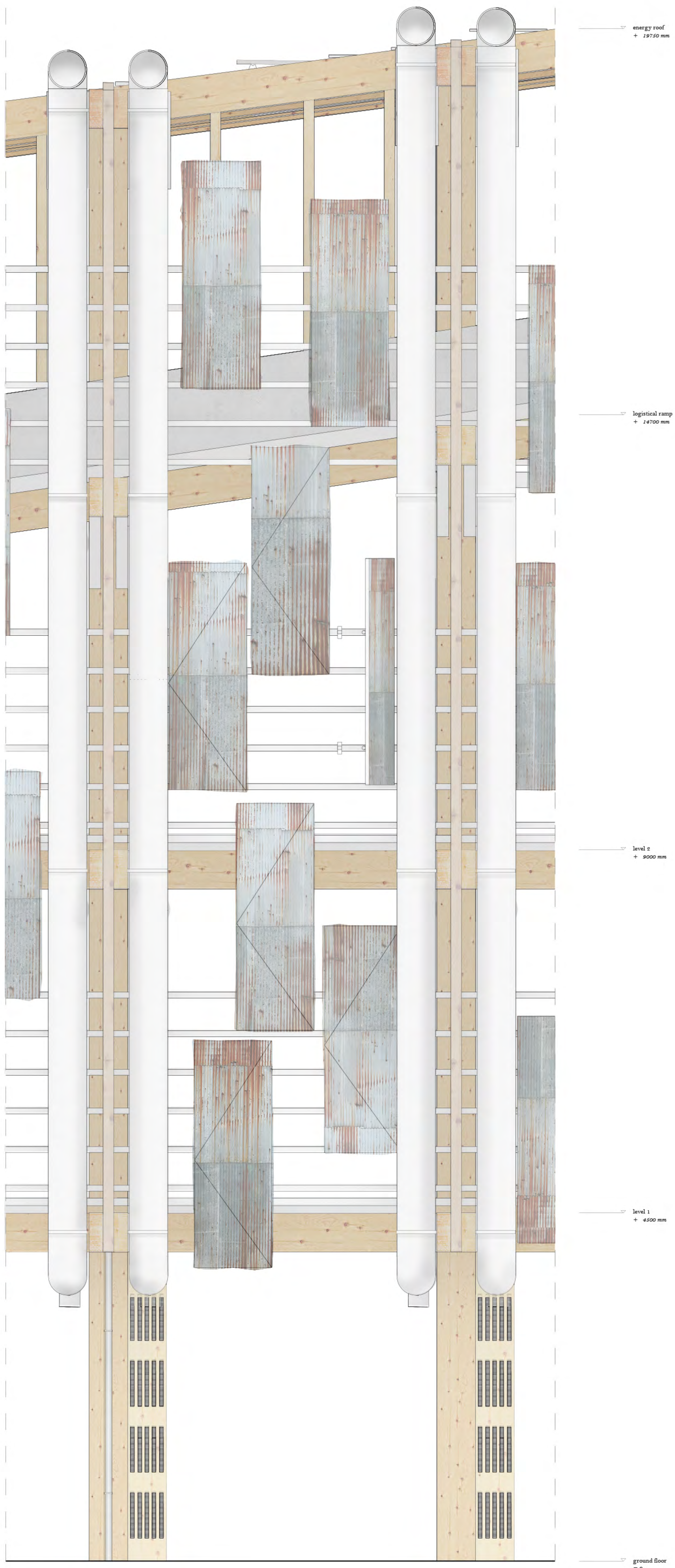
2 PLACE OF COMMUNITY LIFE SEASONAL WORKERS HOTEL
The square in the middle of the seasonal workers hotel functions as a meeting point. The courtyard can be transformed into all kinds of functions, such as a playground, sportfield, space for parties, etc.



3 COMMUNAL PLATFORMS WITH OPEN STRUCTURE
This CLT structure is open with communal platforms inside. The open structure allows sunlight to enter the construction pit and offers communal platforms. The structure functions permanently like this



3 MARKET SQUARE
The market square is an open central spot between the strips of the building, which functions as an trading spot. Different type of markets can take place here.



Fragment Elevation - Completion 1:20



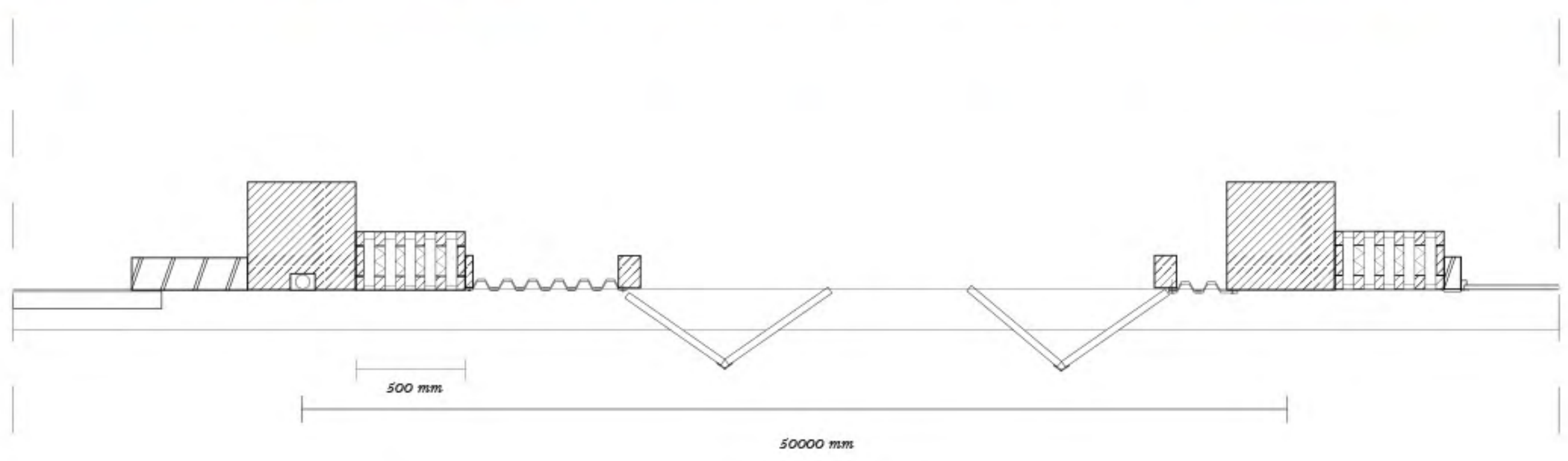
energy roof
+ 19750 mm

logistical ramp
+ 14700 mm

level 2
+ 9000 mm

level 1
+ 4500 mm

ground floor
= 0



Fragment Elevation - Occupation 1:20



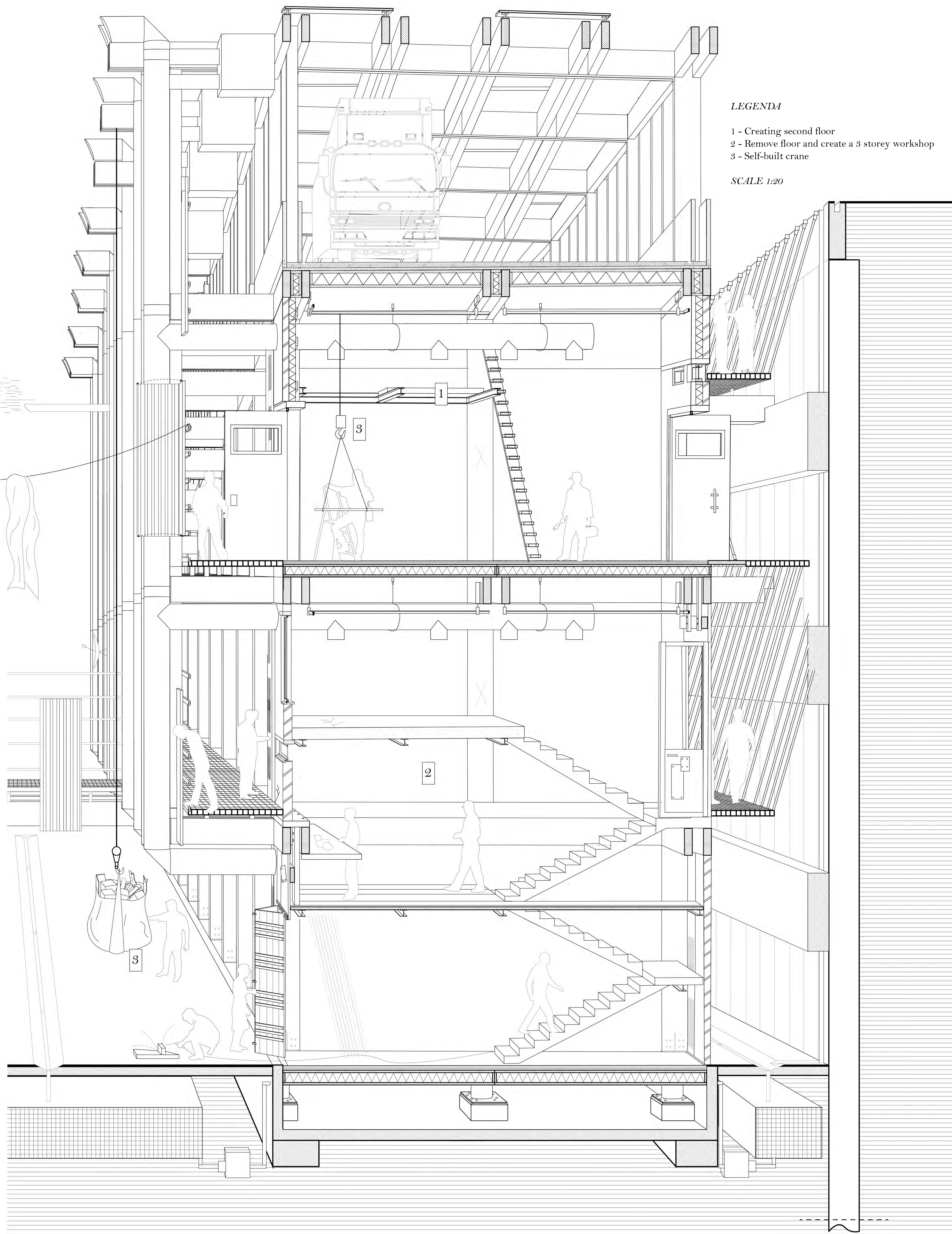
- LEGENDA**
- 1 - Energy roof with solar panels
 - 2 - Mechanical ventilation pipes
 - 3 - Precast filigree slab (50 mm) with concrete load spreading layer (80 mm)
 - 4 - Wooden hollow-core slab floor with sound and fire insulation (thickness 350 mm)
 - 5 - Dry floating screed
 - 6 - Infiltration crates
 - 7 - CLT beams (500 x 150 mm)
 - 8 - CLT columns (500 x 500 mm)
 - 9 - Waterpump
 - 10 - Corrugated sheet with water pipes for cooling
 - 11 - Accessible roof
 - 12 - Dynamic seismic isolation system
 - 13 - CLT beams for logistical ramp (1400 x 150 mm)
 - 14 - Gallery floors existing out of perforated steel
 - 15 - Elevator with concrete core for stability
 - 16 - Staircase
 - 17 - Removable wooden column (marked)
 - 19 - Wall of the construction pit
 - 20 - Pre-heating ventilation air
 - 21 - Ventilation panels
 - 22 - Rails for adding a crane
 - 23 - Water catchment

SCALE 1:40

DISASSEMBLY SPACES

ASSEMBLY SPACES

ASSEMBLY SPACES



LEGENDA

- 1 - Creating second floor
- 2 - Remove floor and create a 3 storey workshop
- 3 - Self-built crane

SCALE 1:20