

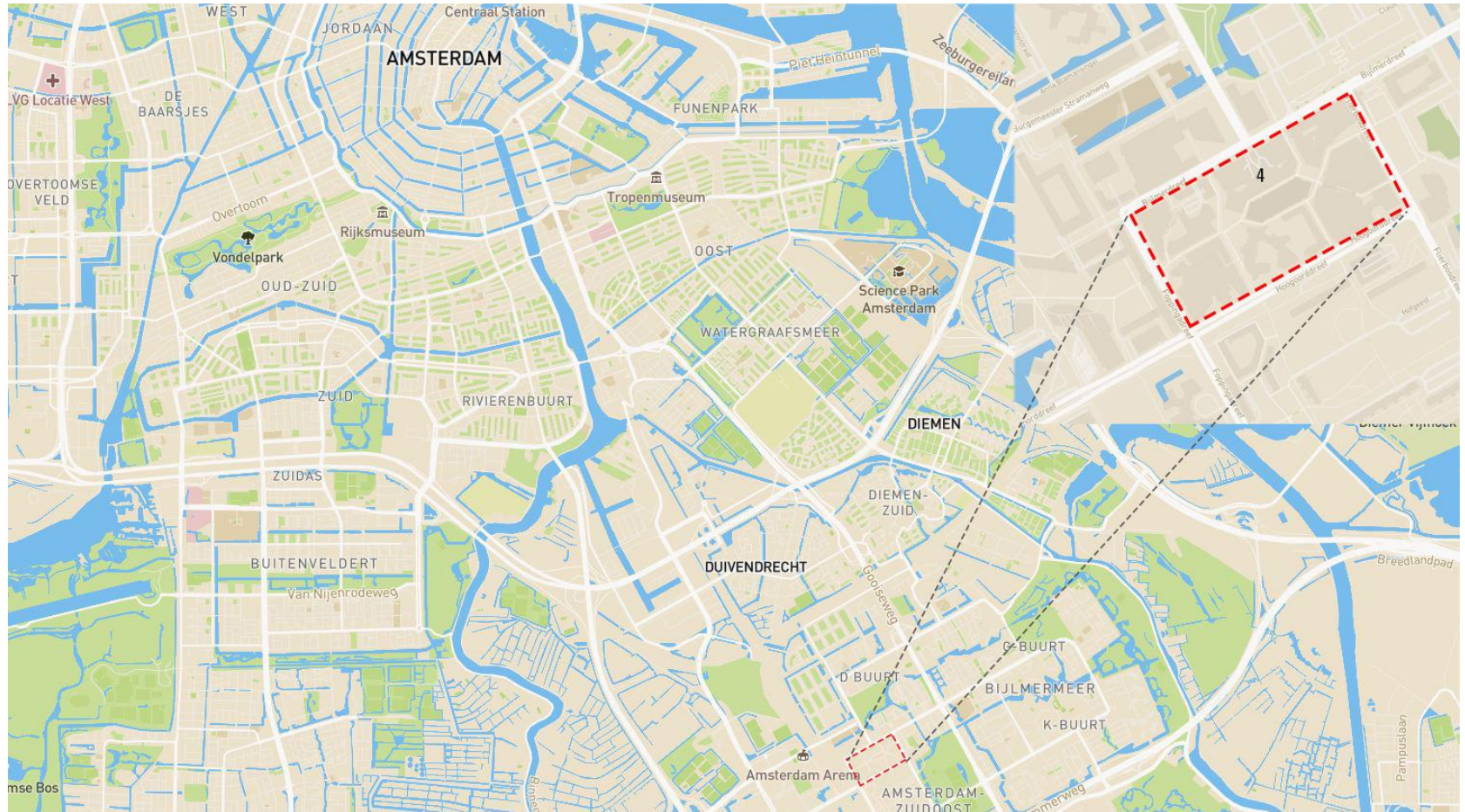
Juxtaposition of notions

Adaptable housing through circular transformation

New heritage Graduation studio
P5 Presentation



LOCATION





The 1M Homes Initiative

BIJLMERPLEIN

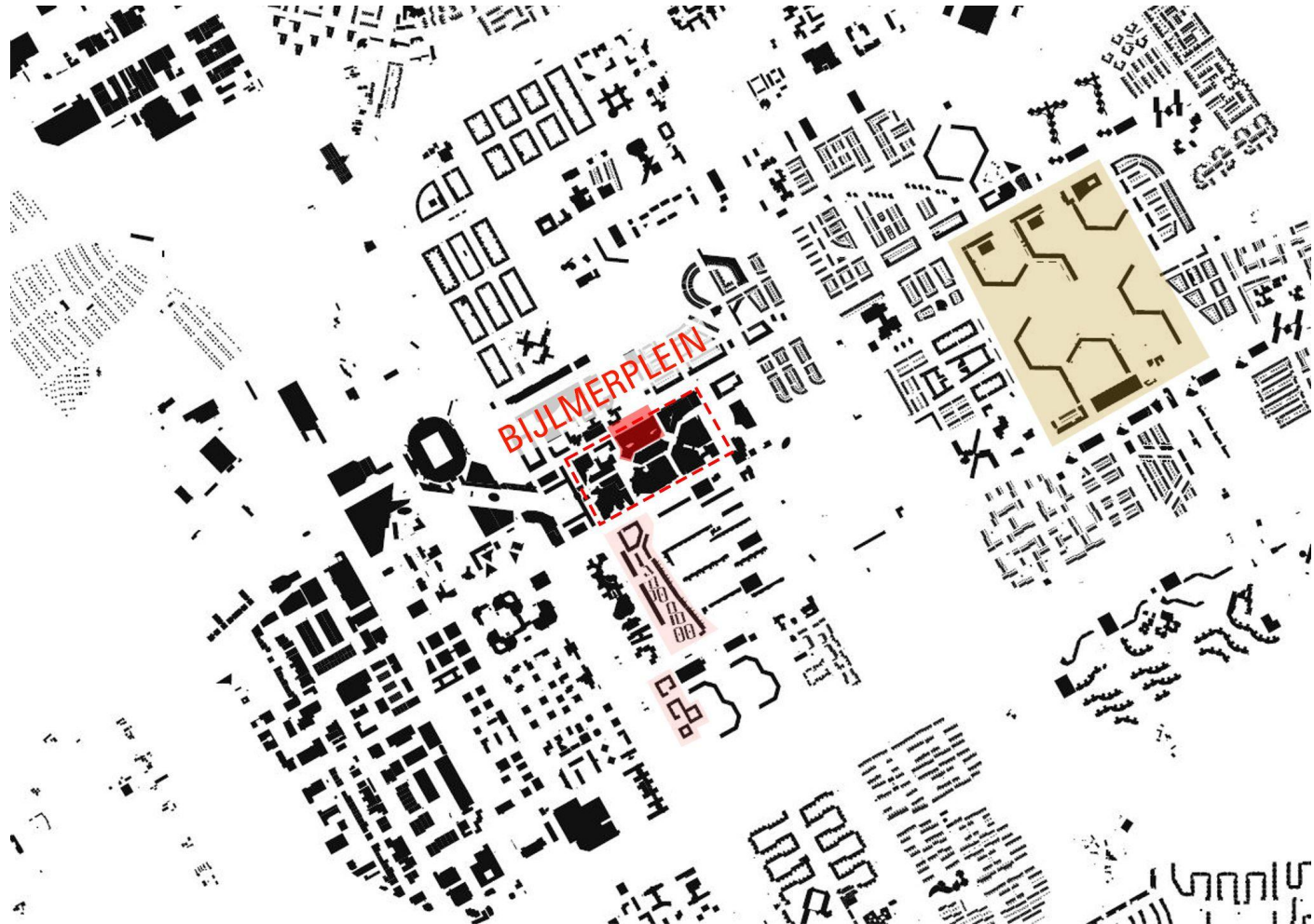
HOPTILLE

HEESTERVELD

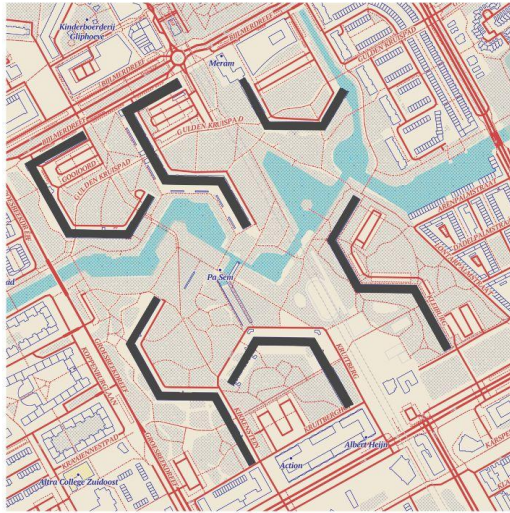
BIJLMERPLEIN - EXAMPLE OF SMALL SCALE URBANITY



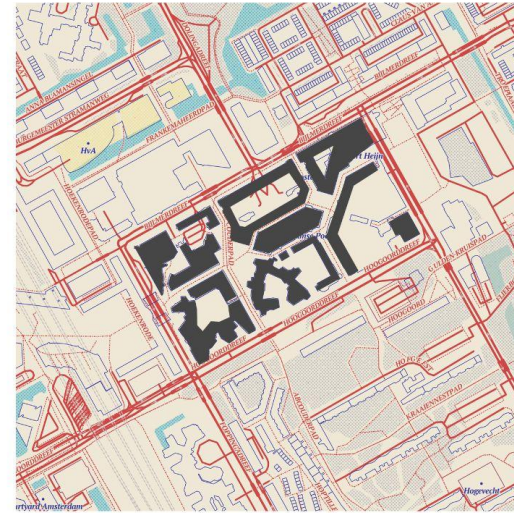
URBAN CONTEXT OF THE NEIGHBOURHOOD



REACTION TO MODERNISM



MICROCOSMOS SPACES OF BIJLMER



SMALL SCALE URBANITY OF BIJLMERPLEIN

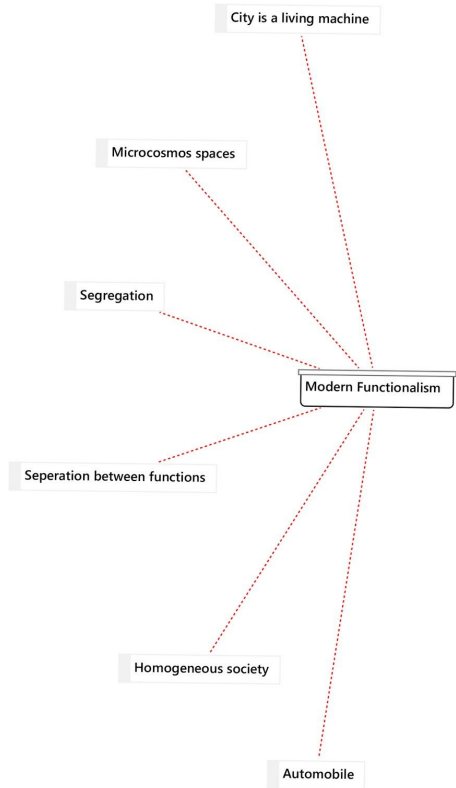


1972 Aerial photo Bijlmer East Center



1987 Aerial photo Bijlmerplein

INTERPLAY BETWEEN NOTIONS



Interplay between notions

Bijlmer - utopian city

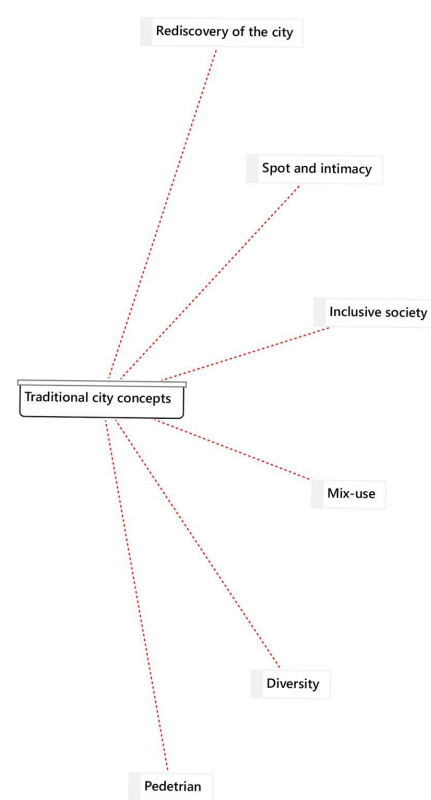
Failed - "The Drain of the Dutch Society"
Pi de Bruijn called it "an invasion" and "a ghetto."

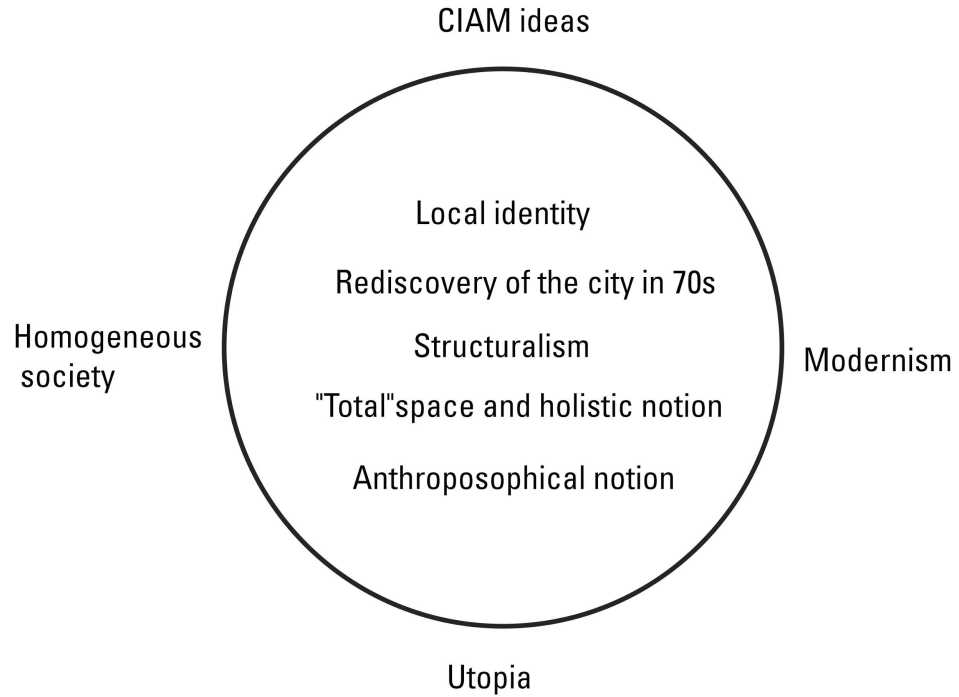


Manifest of openness of 70s

Failed to create a unified ideological alternative

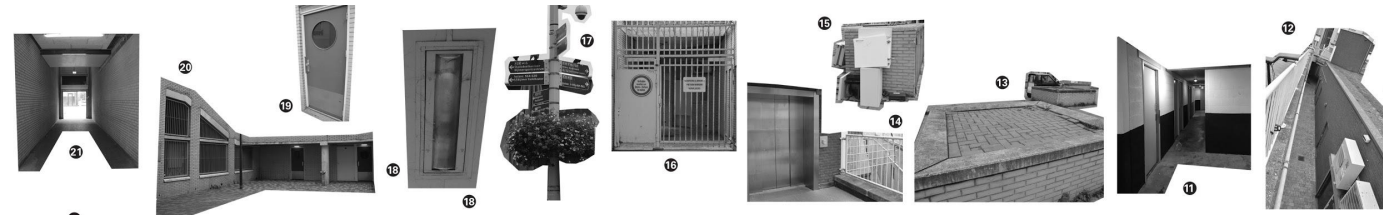
"The rotten years" - (Arne van Herk)
"An age of confusion" - (Adri Duivesteijn)
"Pluriform period" - (John Habraken)



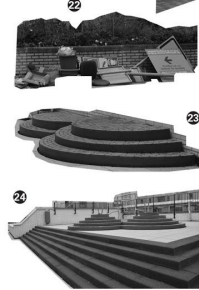


STAKEHOLDERS PERSPECTIVE

OWNERS PERSPECTIVE



Mobility of people with disabilities (complicated ramps, not maintained elevators).



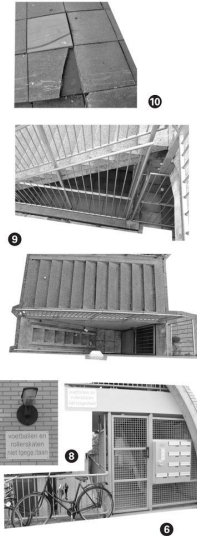
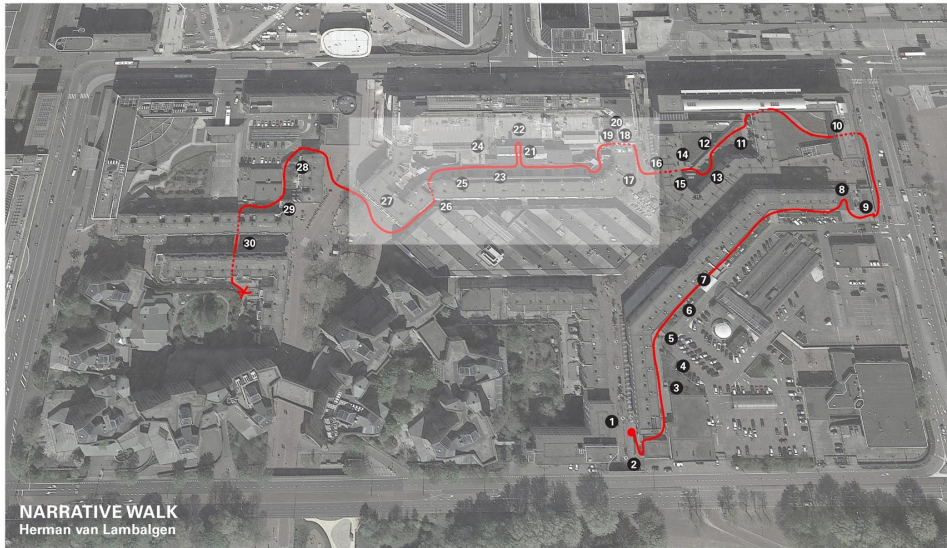
Homeless people come to the inner spaces and sleep there, cause on the ground floor there is public activities.



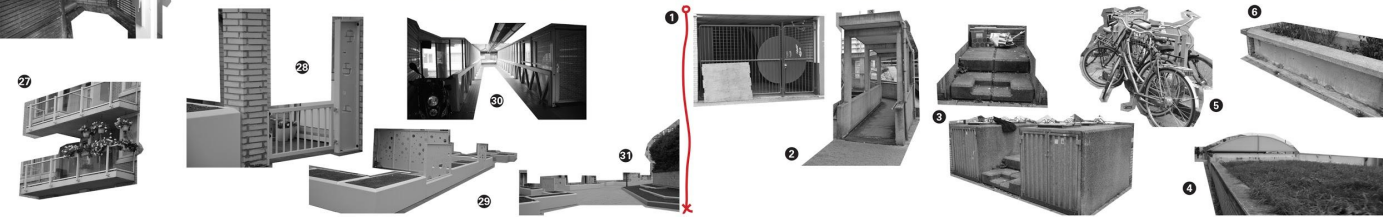
Hard surface and little of greenery.



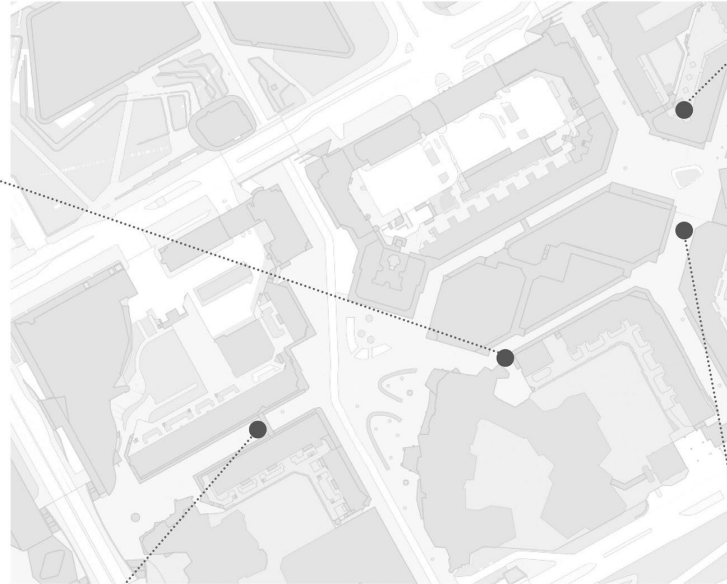
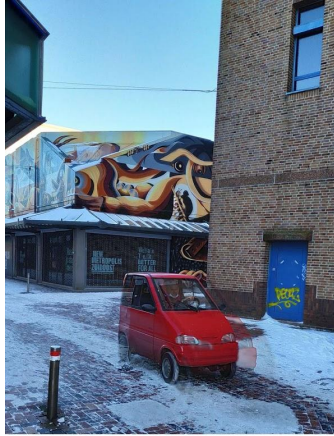
Courtyard is lacking of ownership.



Storage units on the first level are not desirable, it is hard to use them.



MOBILITY



The Cantar is a two-seat microcar from the Netherlands specifically created for disabled drivers. It was developed in 1995 by Waaijenberg together with the Delft University of Technology. In addition to the standard petrol-engine production models, an electric Cantar was designed for the German market but it has remained at the prototype stage. In the Netherlands, it is classified as a mobility aid because the width of the vehicle is only 1.10 metres, thus it may - unlike larger microcars - be used on cycle paths as well as sidewalks and footpaths; in addition a driver's license is not required.

OWNERS PERSPECTIVE



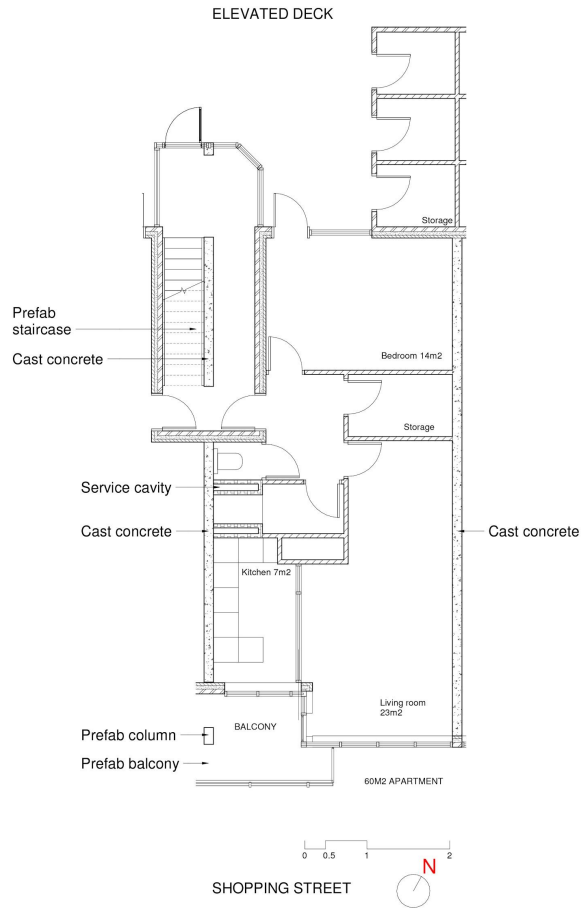
Inner space is without any connection with public domain and it is separated.

The space itself is designed with one scenario so it lacks of flexibility in terms of residential use.

Complicated circulation system and maze like structure discourage social interaction.

There is no space for residents gatherings

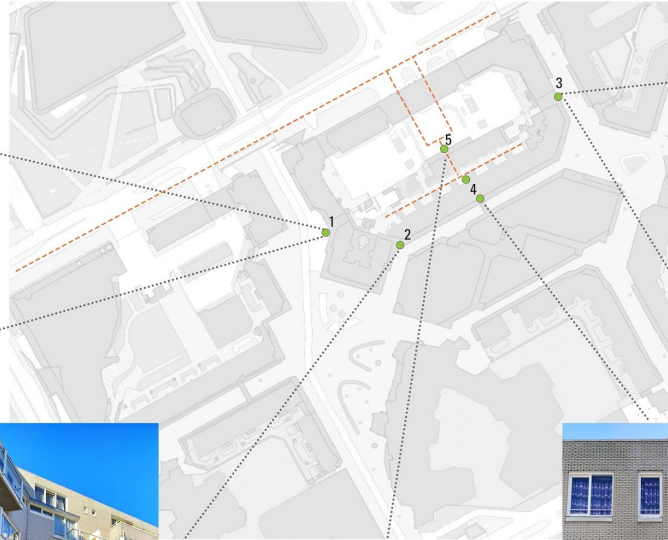
RESIDENTS' PERSPECTIVE



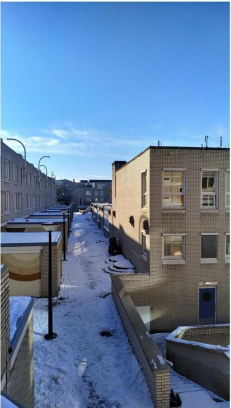
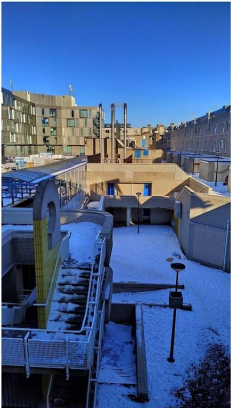
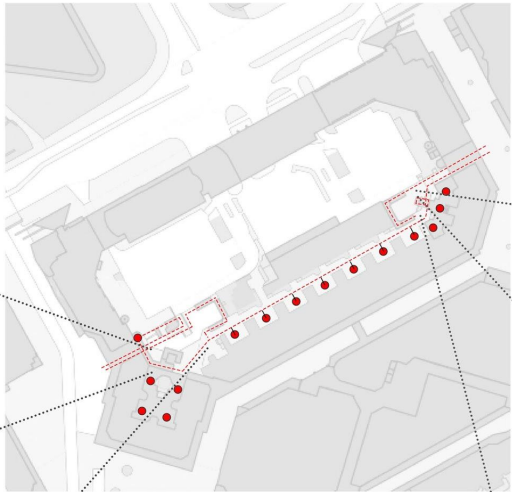
Highlighted qualities from some residents of their apartments:

- Very spacious for one person
- Two side orientation
- Balcony connected with a kitchen
- Enough storage space
- Separation between bathroom and WC

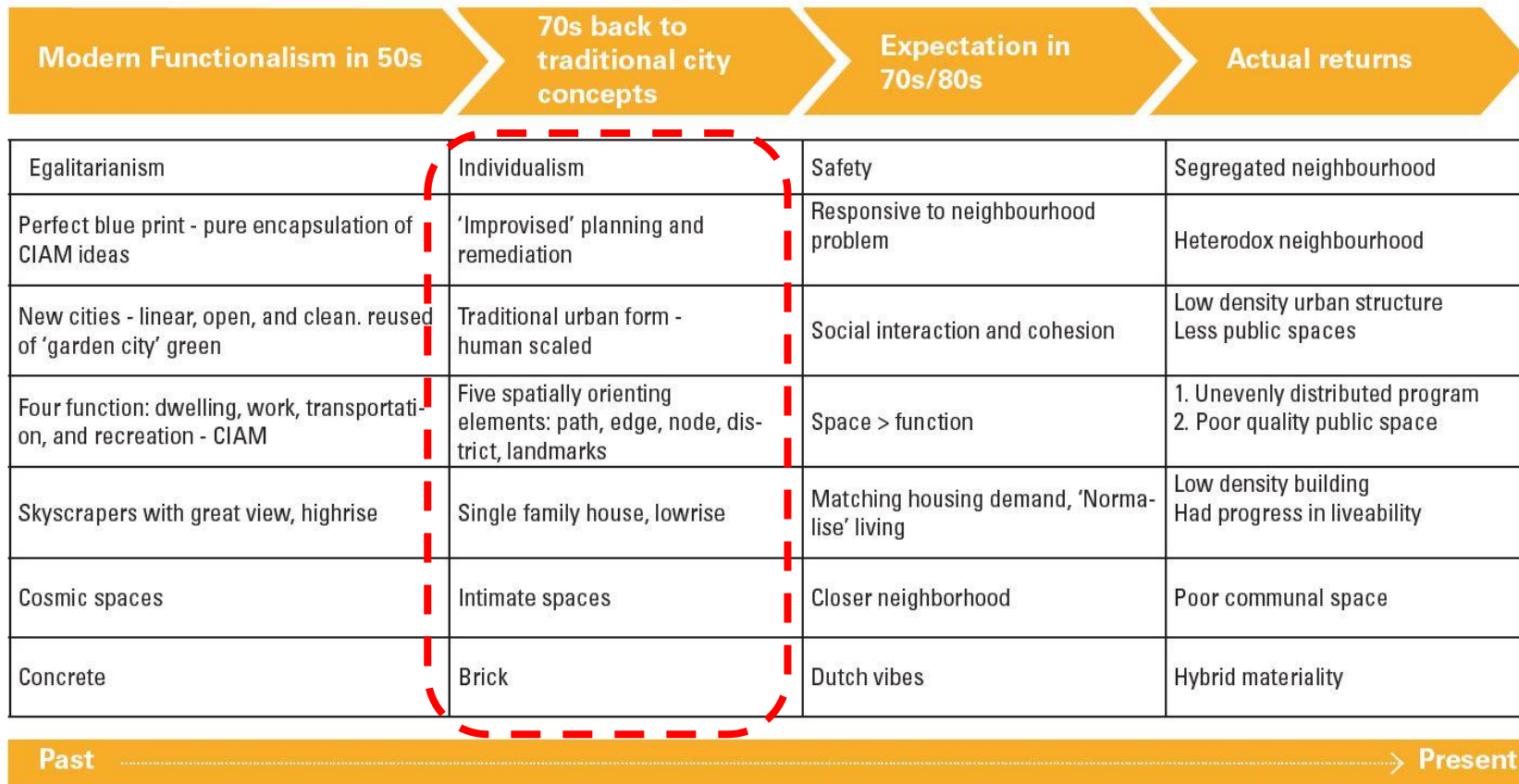
ENTRANCES TO RESIDENTIAL CLUSTERS



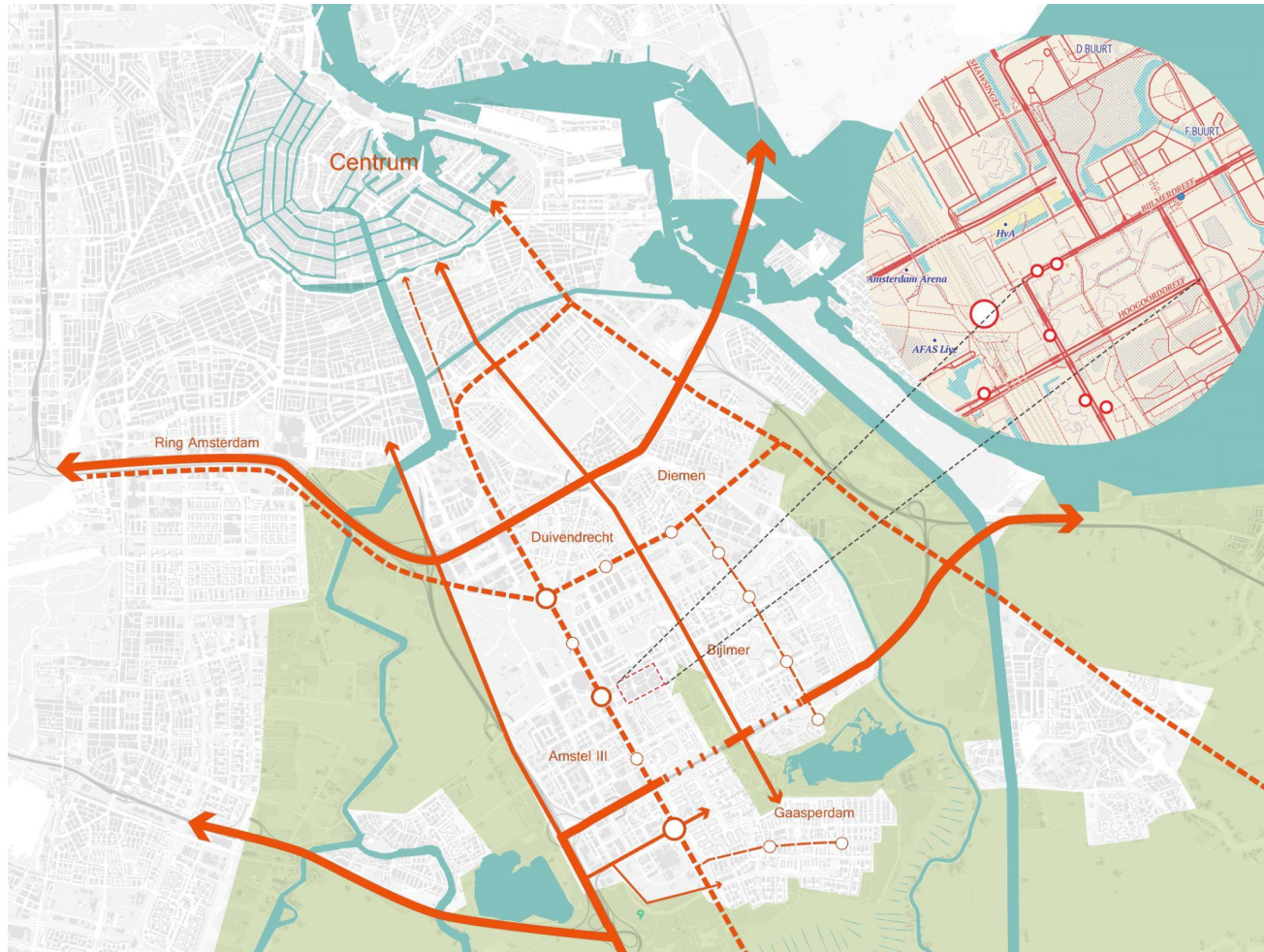
ENTRANCES TO THE DWELLINGS

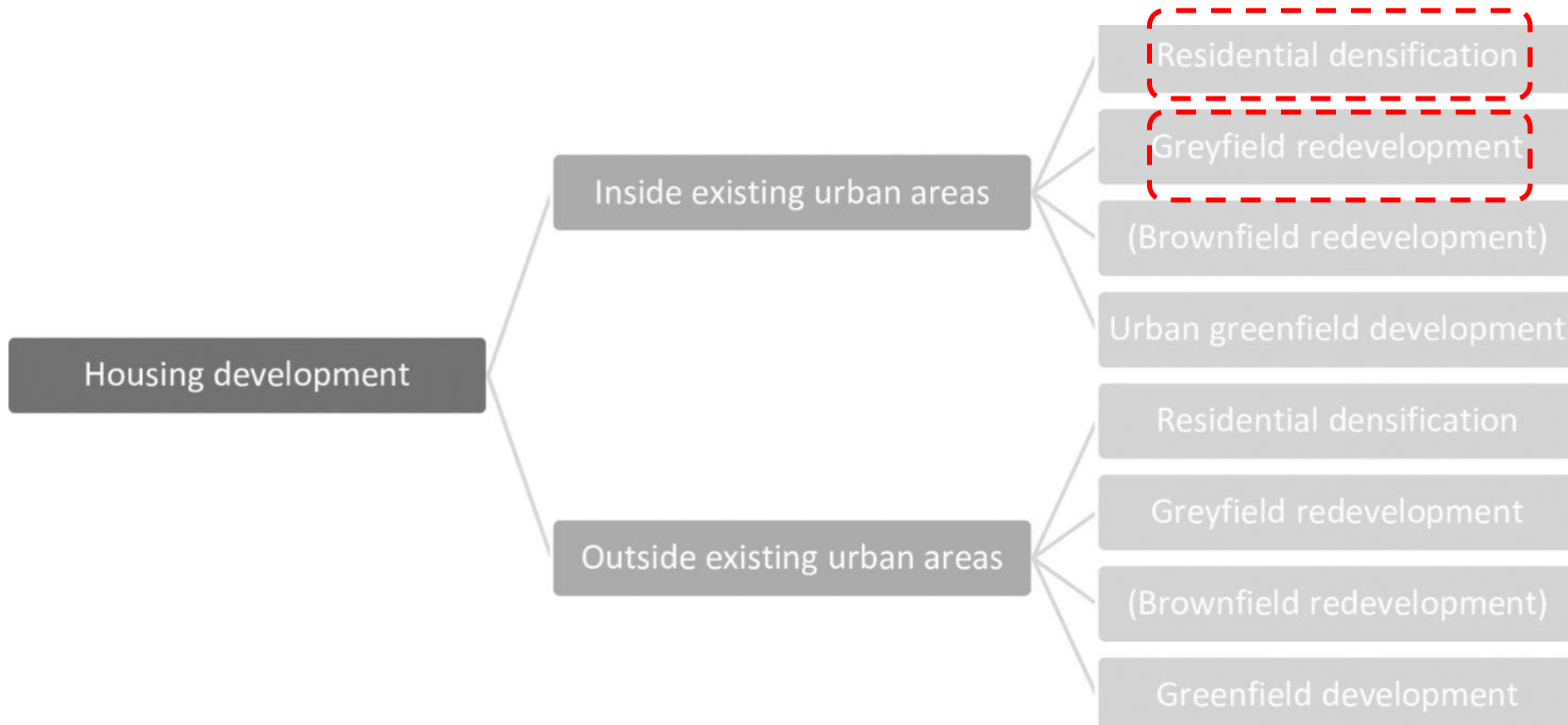


DEFINED ATTRIBUTES OF HISTORICAL VALUE



URBAN SCALE MOBILITY - POTENTIAL FOR DENSIFICATION





SITE ANALYSIS

VEHICLE CIRCULATION



PEDESTRIAN CIRCULATION



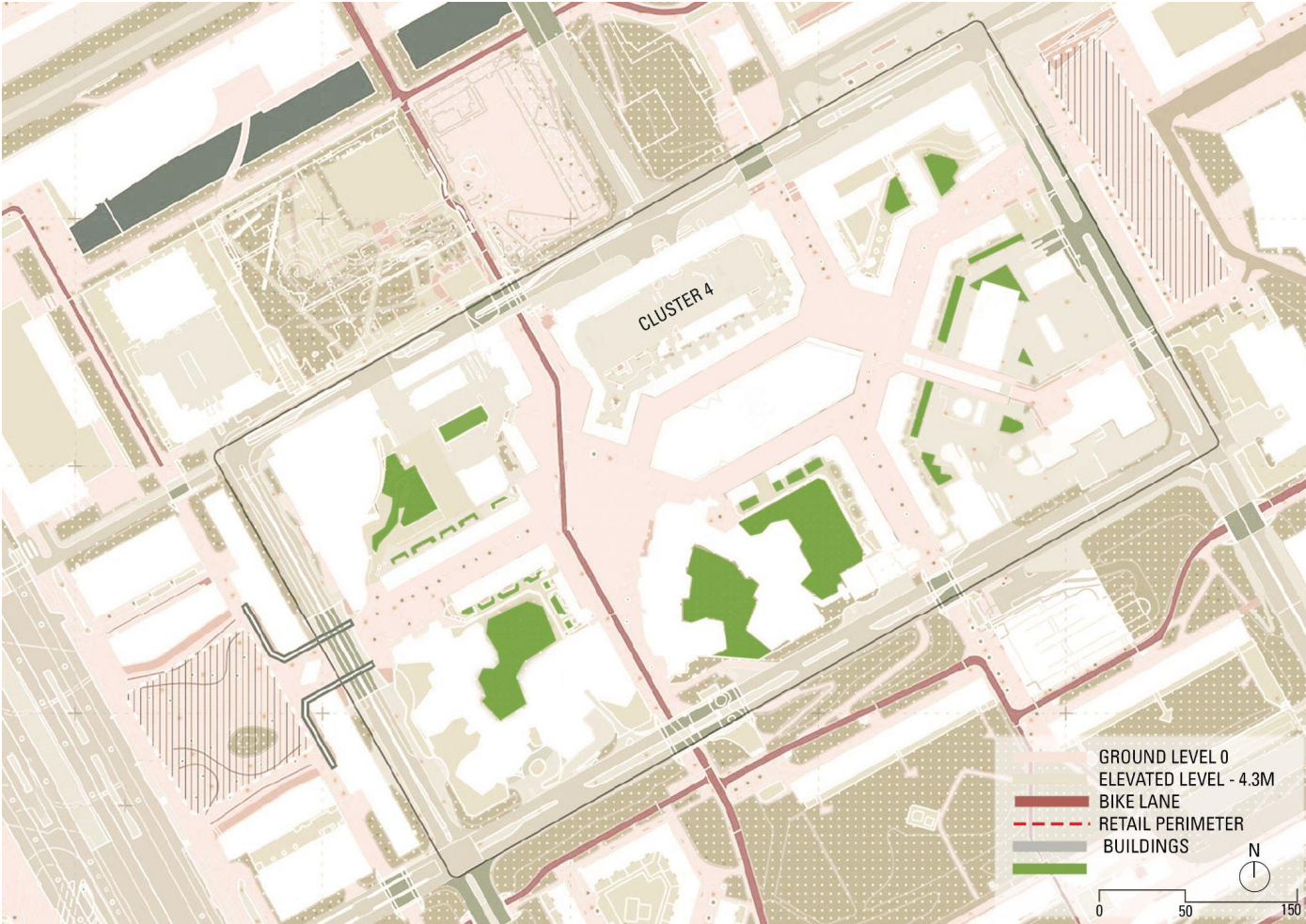
ENTRANCES TO THE RESIDENTIAL CLUSTERS



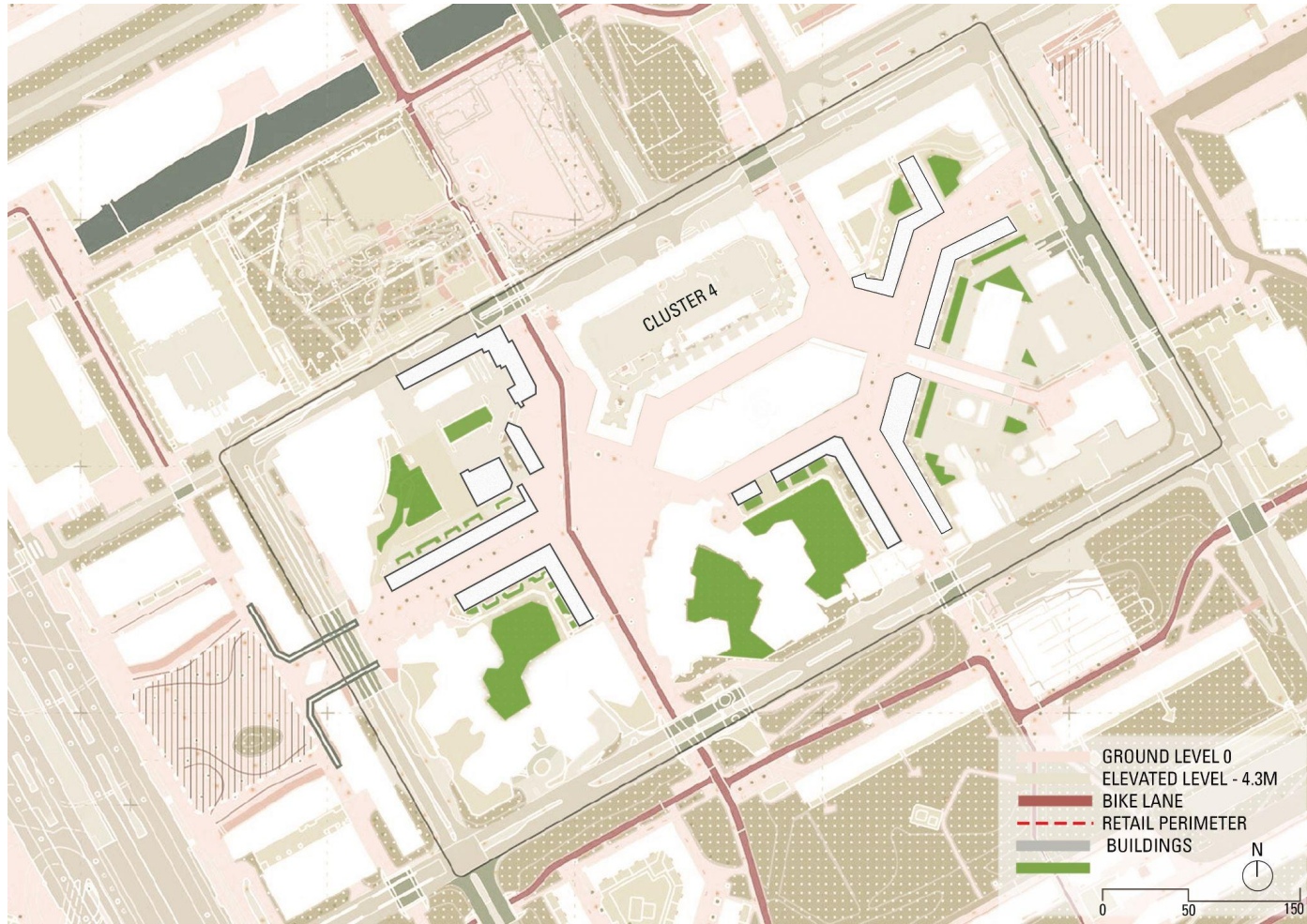
FUNCTIONS



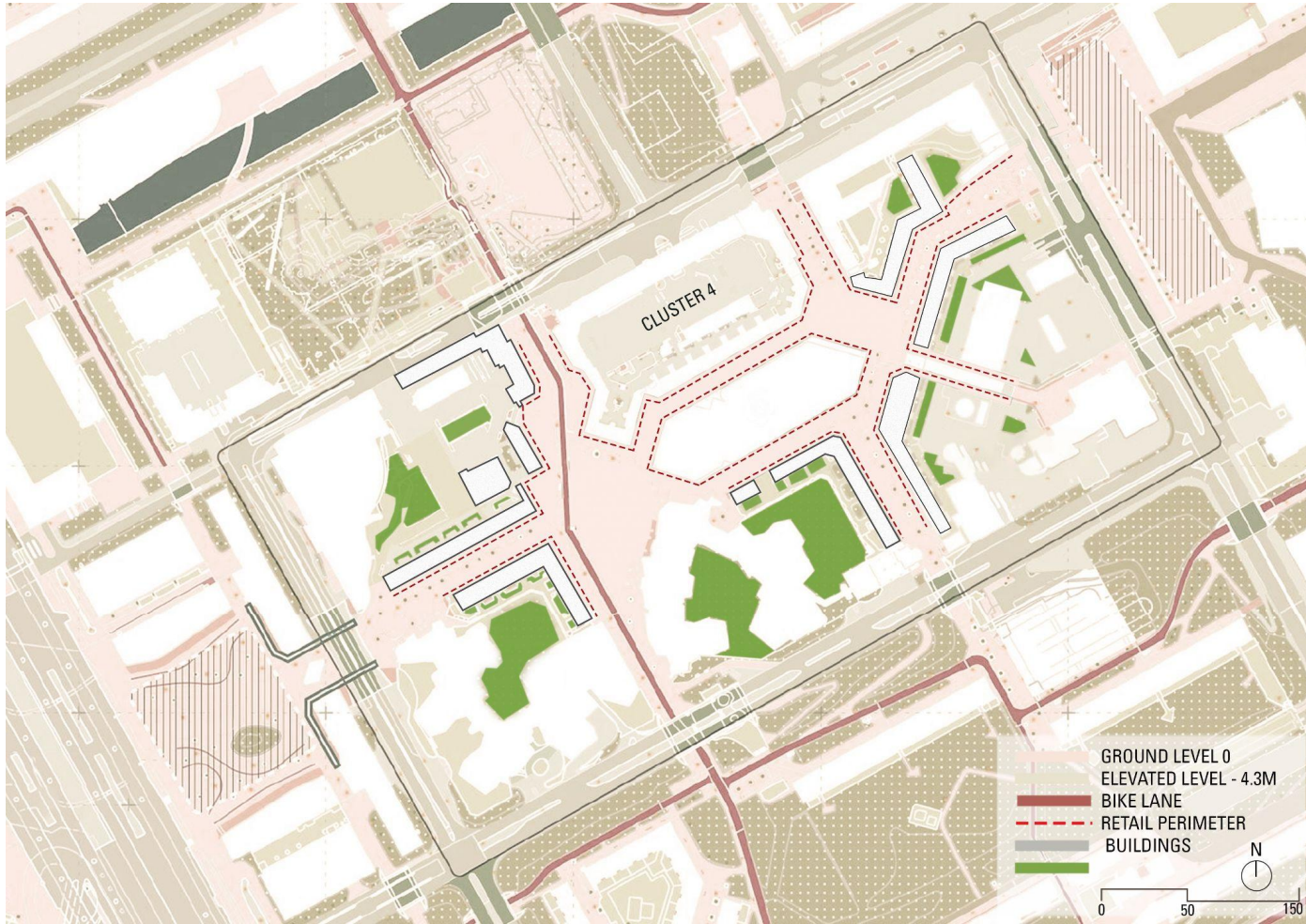
LACK OF GREENERY



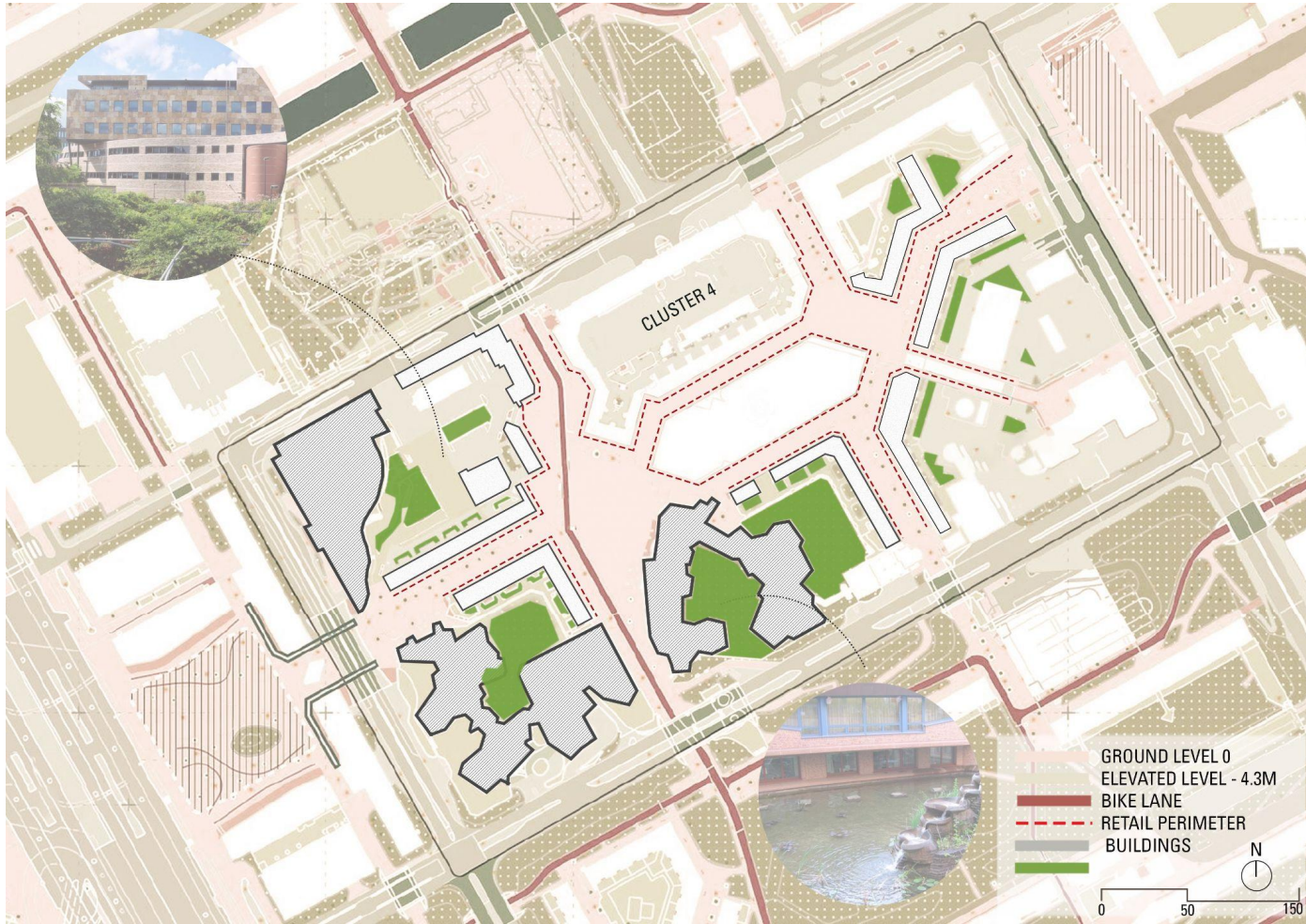
URBAN TISSUE COMPOSITION



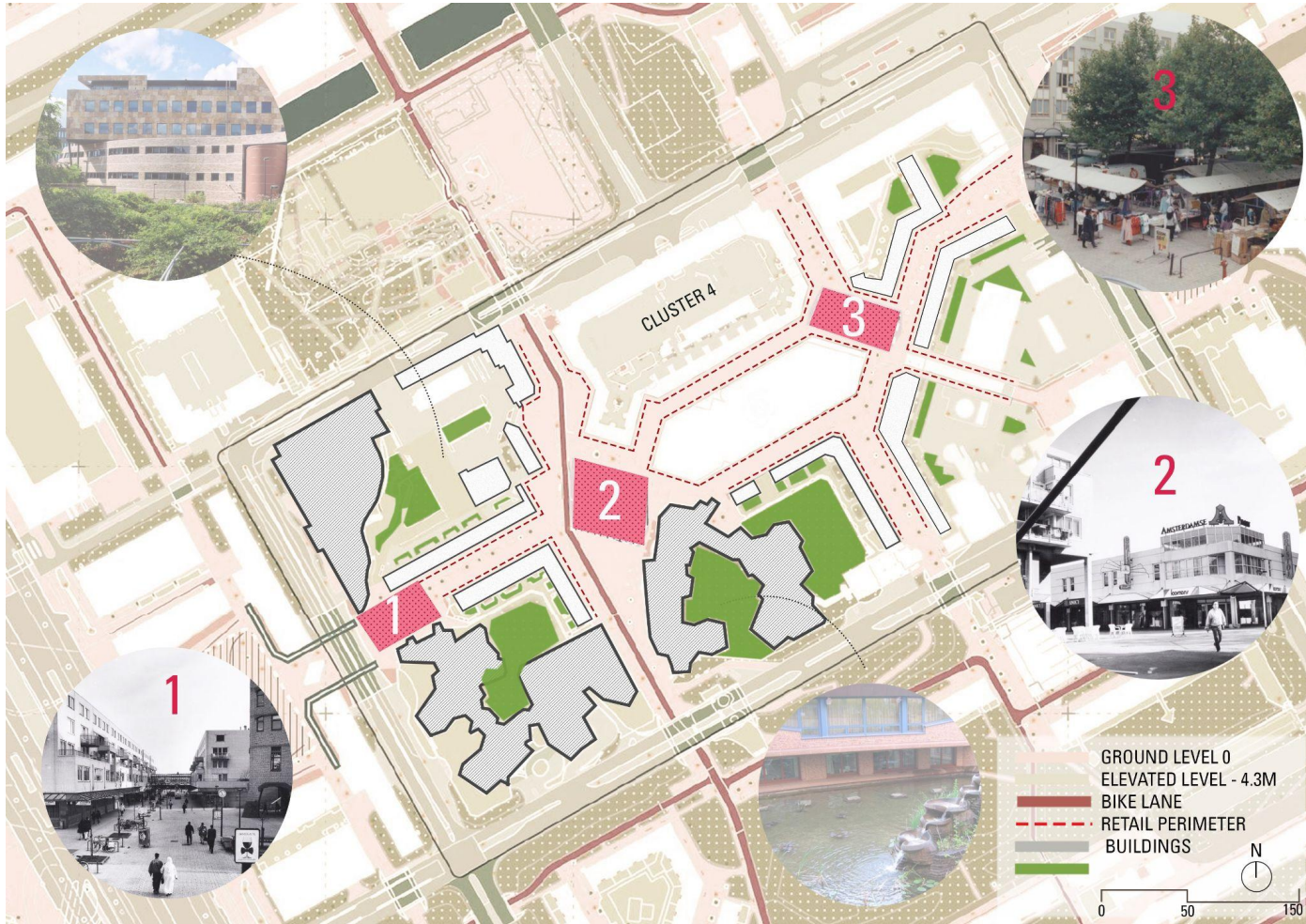
RETAIL PERIMETER



SOPHISTICATED INNER STRUCTURES



SEQUENCE OF PUBLIC SQUARES



HISTORICAL DRIVER - ARCHETYPES IN BIJLMERPLEIN



Great Colonnade, Apamea, Syria



The Tower of the Winds



The Lion Gate the entrance of the Bronze Age citadel



Curetes Street in Ephesus



The Bridge of Arts crosses the Arachthos river



Hadrian's Villa (Villa Adriana), Tivoli, Italy



Hadrian's Arch in Athens



COLONNADE



TOWER



GATE



STREET



BRIDGE



GARDEN-YARD



ARCH



1



2



3



4



5



6



7

Archetype, Existential Expression, and Shared Experience

Set of archetypes which we can call the grammar of architecture. These archetypes may be understood as images which can be identified in relation to both architectural form, function and technology



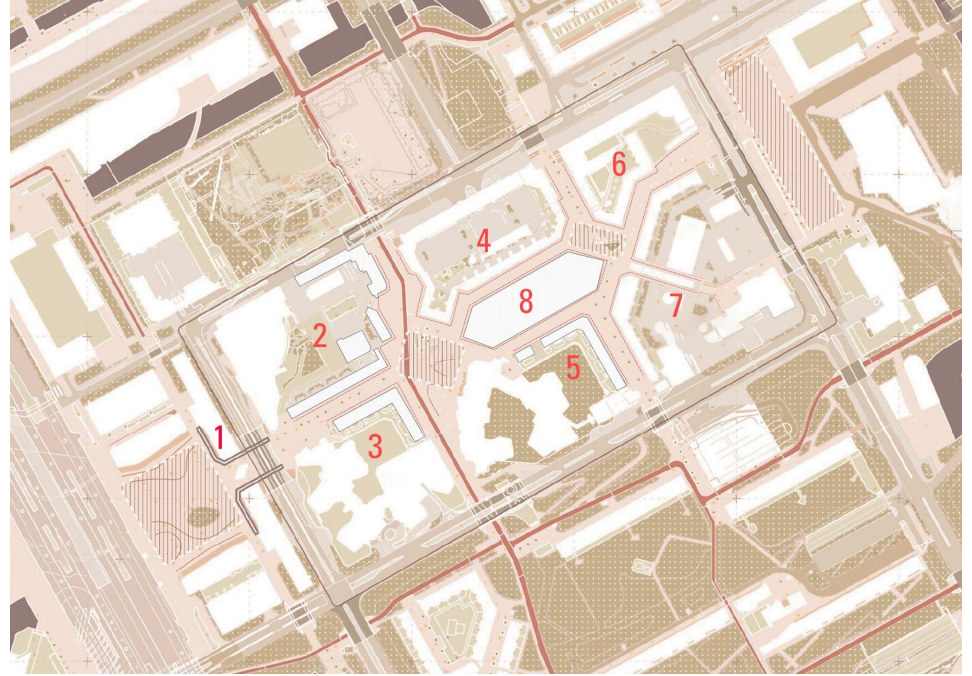
These basic forms can be referred to as the archetypes of architecture. The original Greek meaning of the word archetype is 'first form', or 'original model' as it exists as a basis for all later variations and combinations

CLUSTER 4 ANALYSIS

CLUSTER 4



CLUSTER 4



CLUSTER COMPOSITION OF BIJLMERPLEIN

CLUSTER 4



Cluster 4

Architects:
Van den Broek en Bakema

Date of construction: 1983 -1985

ARCHETYPES IN CLUSTER 4



TOWER



COLONNADE



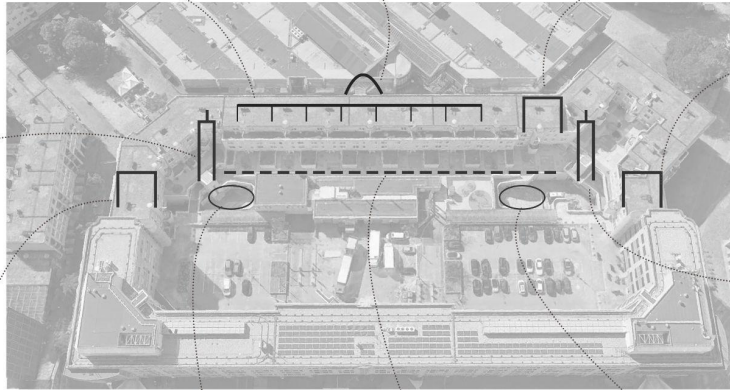
BRIDGE



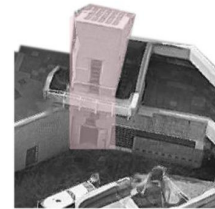
GATES



GATES



GATES



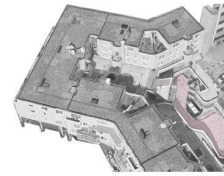
TOWER



BACKYARD

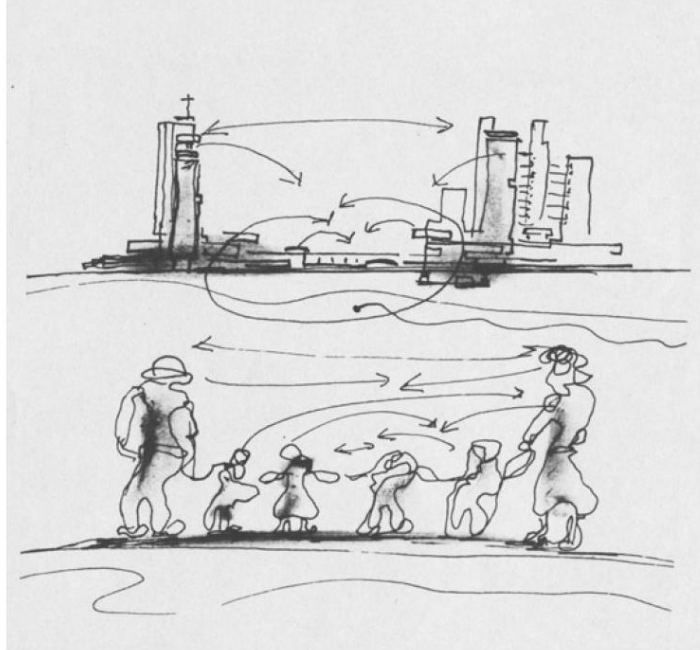


STREET



BACKYARD

PRIMARY CONCEPTS OF BROEKBAKEMA



With the 'friendship diagram' Bakema demonstrates how architecture can be an expression of human behaviour,

Discontent with the post-war reconstruction machinery

PRIMARY CONCEPTS

SPACE FORM STRUCTURE MAN

FUNCTIONAL CONCEPTS

HOME WORKPLACE CHURCH SCHOOL

HISTORICAL AND USE VALUES



WHITE BETON BRICK



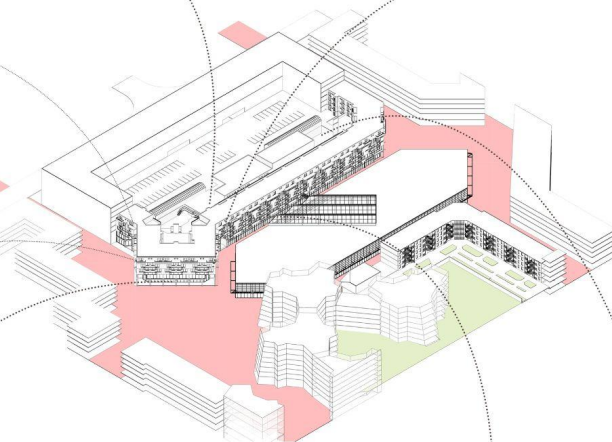
STRUCTURAL GRID AND ENCODED POSTMODERNIST LANGUAGE



FACADES ARE RELATED WITH PUBLIC REALM



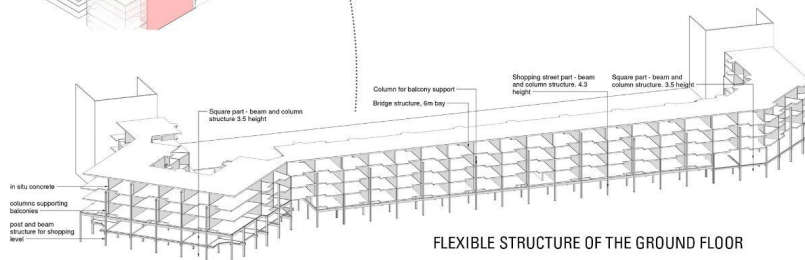
ORNAMENTATION OF THE CORNERS



ELEVATED DECK WITH RESIDENTIAL FUNCTIONS



EXPOSED STRUCTURE



FLEXIBLE STRUCTURE OF THE GROUND FLOOR

in situ concrete
columns supporting
balconies
post and beam
structure for shopping
level

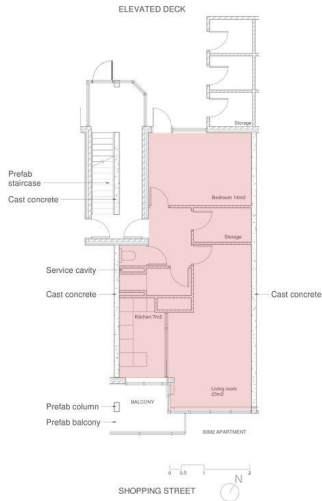
Square part - beam and column
structure 3.5 height

Column for balcony support
Bridge structure, 6m bay

Shopping street part - beam
and column structure, 4.3
height

Square part - beam and
column structure, 3.5 height

SOCIAL VALUES



QUALITY OF DWELLINGS



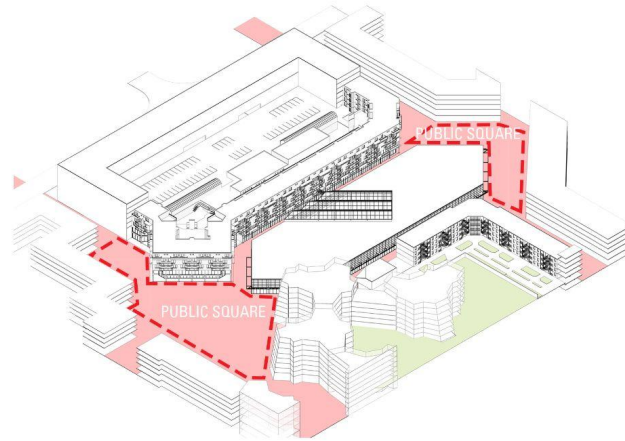
FESTIVALS



LOCAL BUSINESS



COMMUNITY EVENTS



MARKET



SHOPPING



COMMERCIAL NOTION



CULTURAL & ARTS

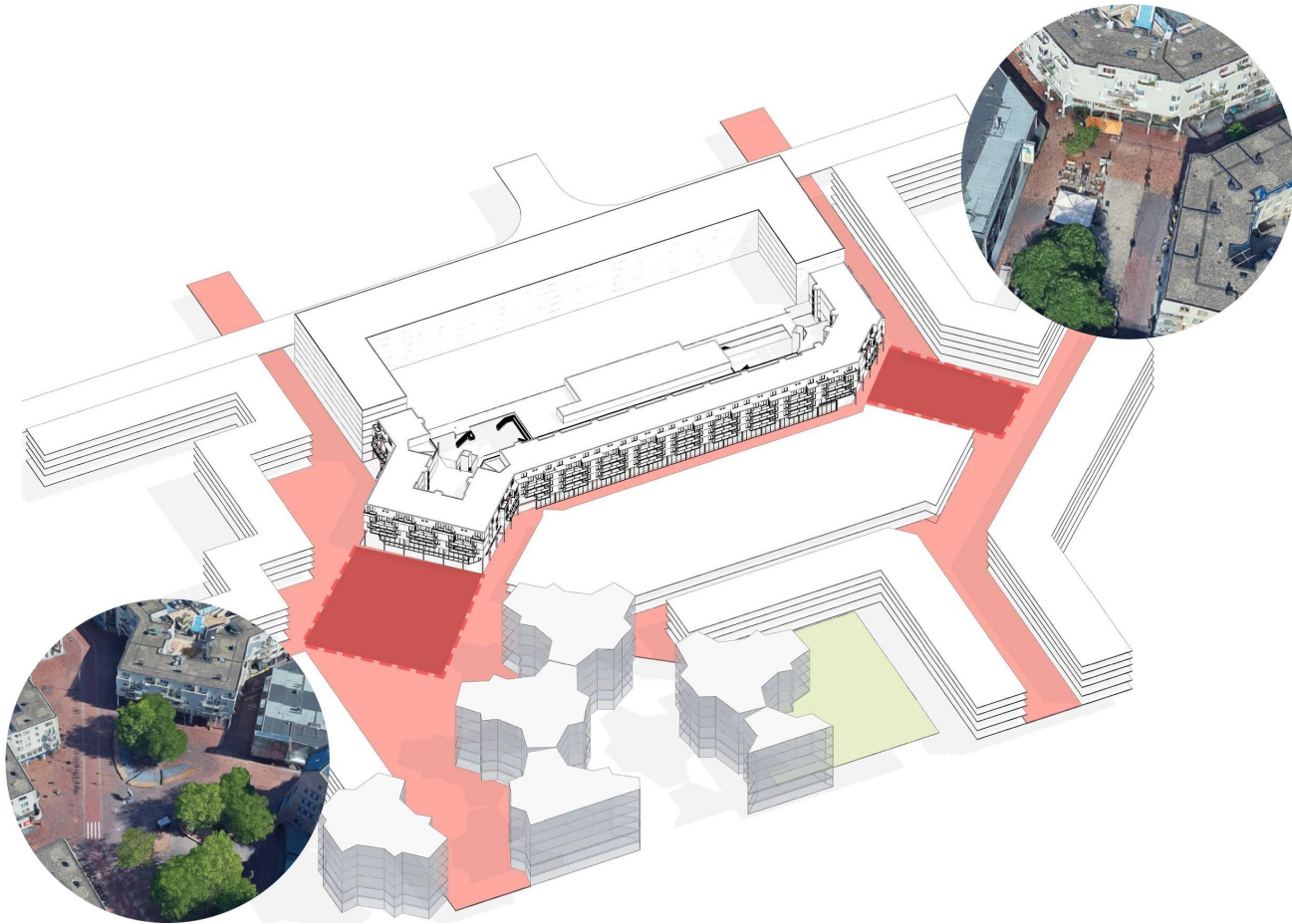


LOCAL FOOD

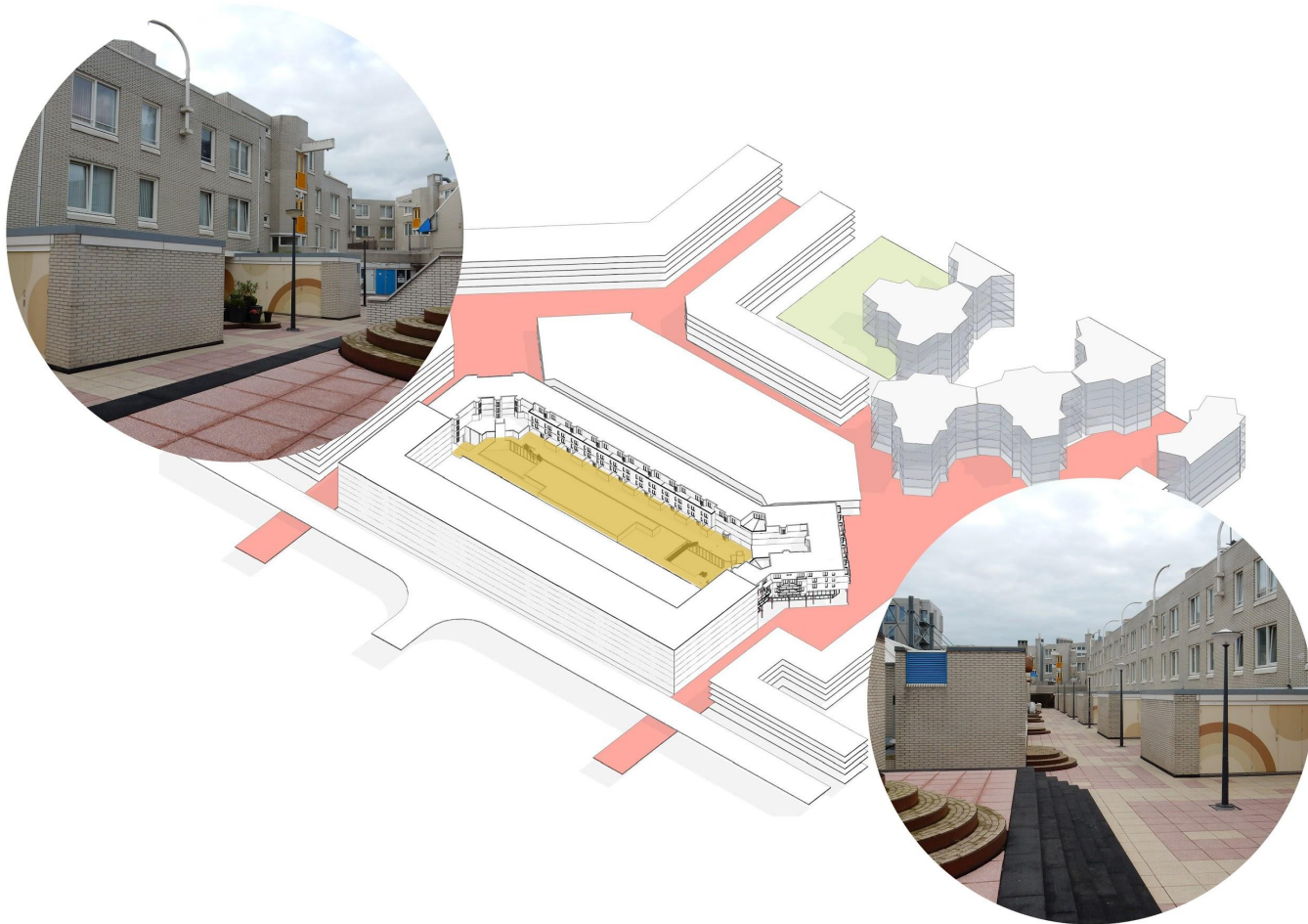


MULTICULTURAL DIVERSITY

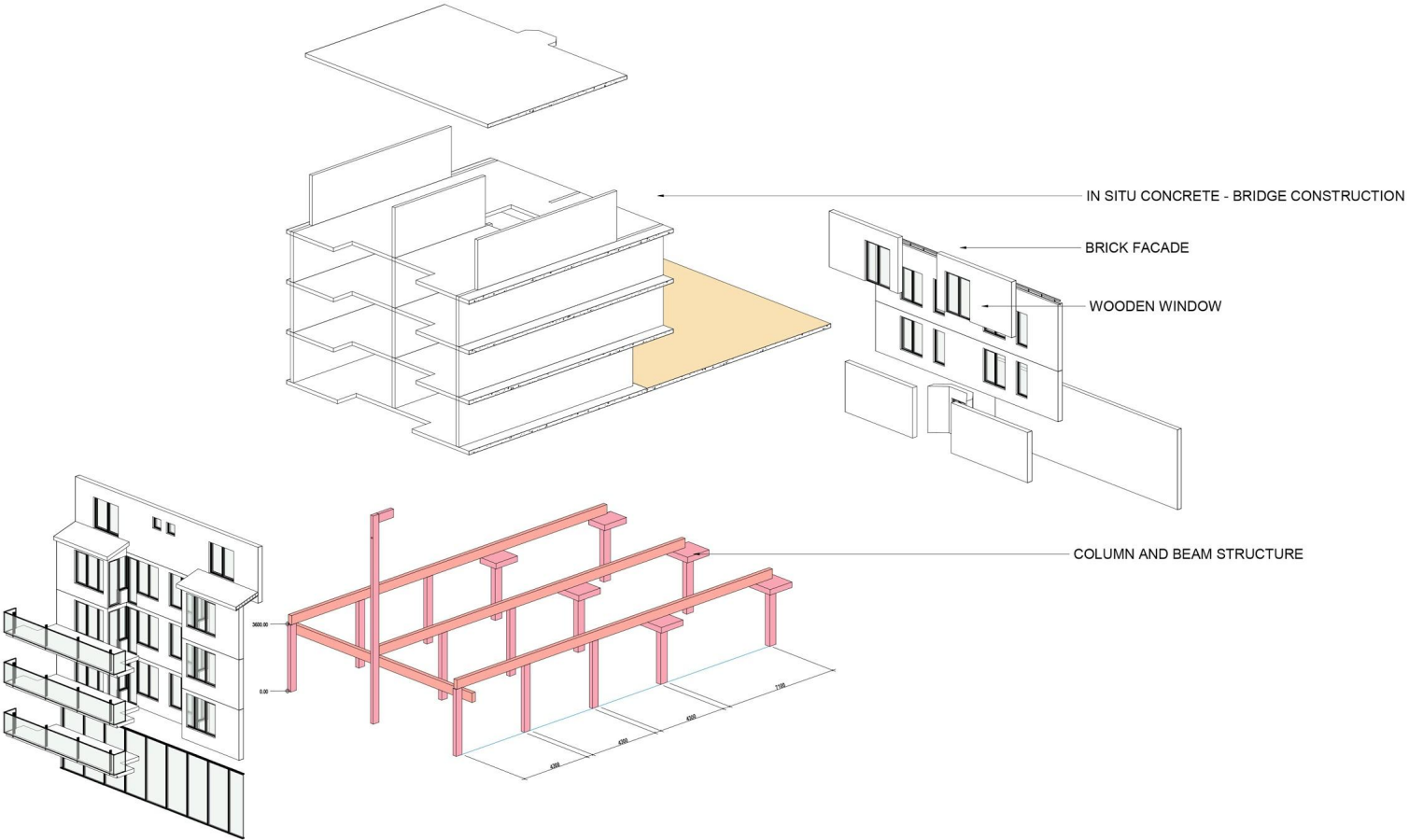
RELATIONSHIP BETWEEN THE CLUSTER AND PUBLIC SQUARES



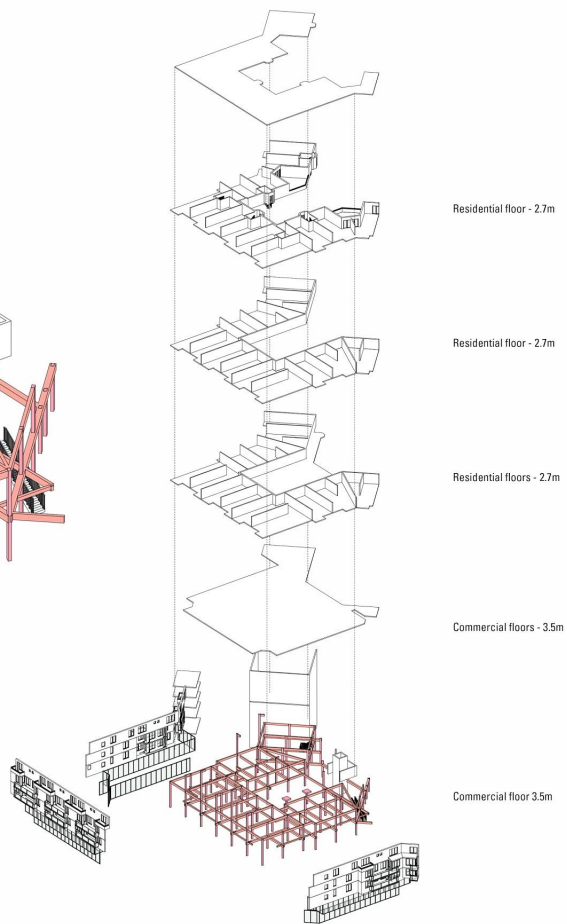
INNER SPACE



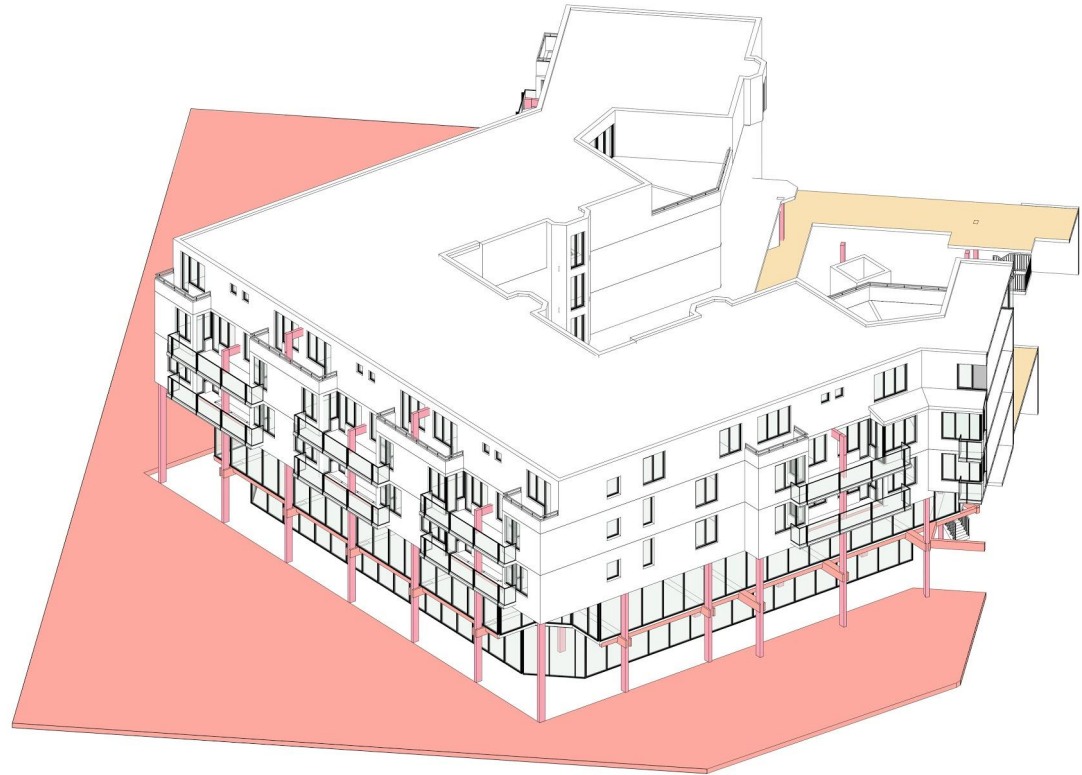
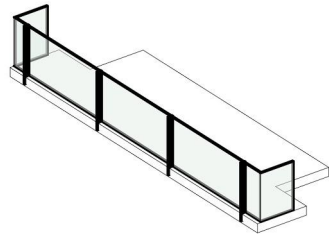
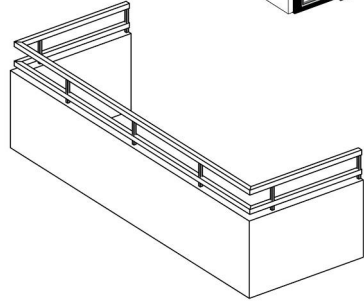
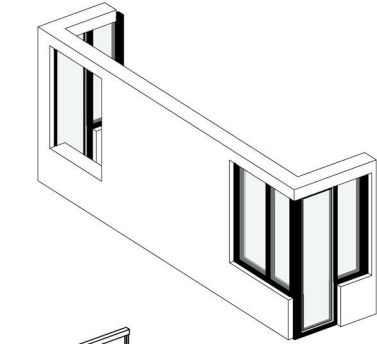
ELONGATED PART TOWARDS SHOPPING STREET



CORNER WING TOWARDS PUBLIC SQUARE



AESTHETICS OF POSTMODERNISM AND STRUCTURALISM



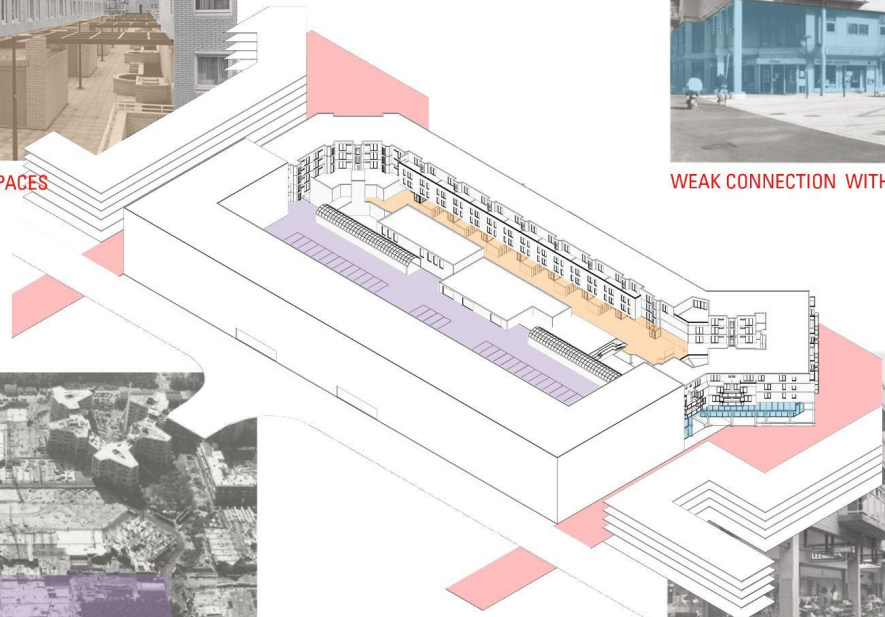
ENCODED CHALLENGES



LACK OF COMMUNAL SPACES



WEAK CONNECTION WITH PUBLIC REALM

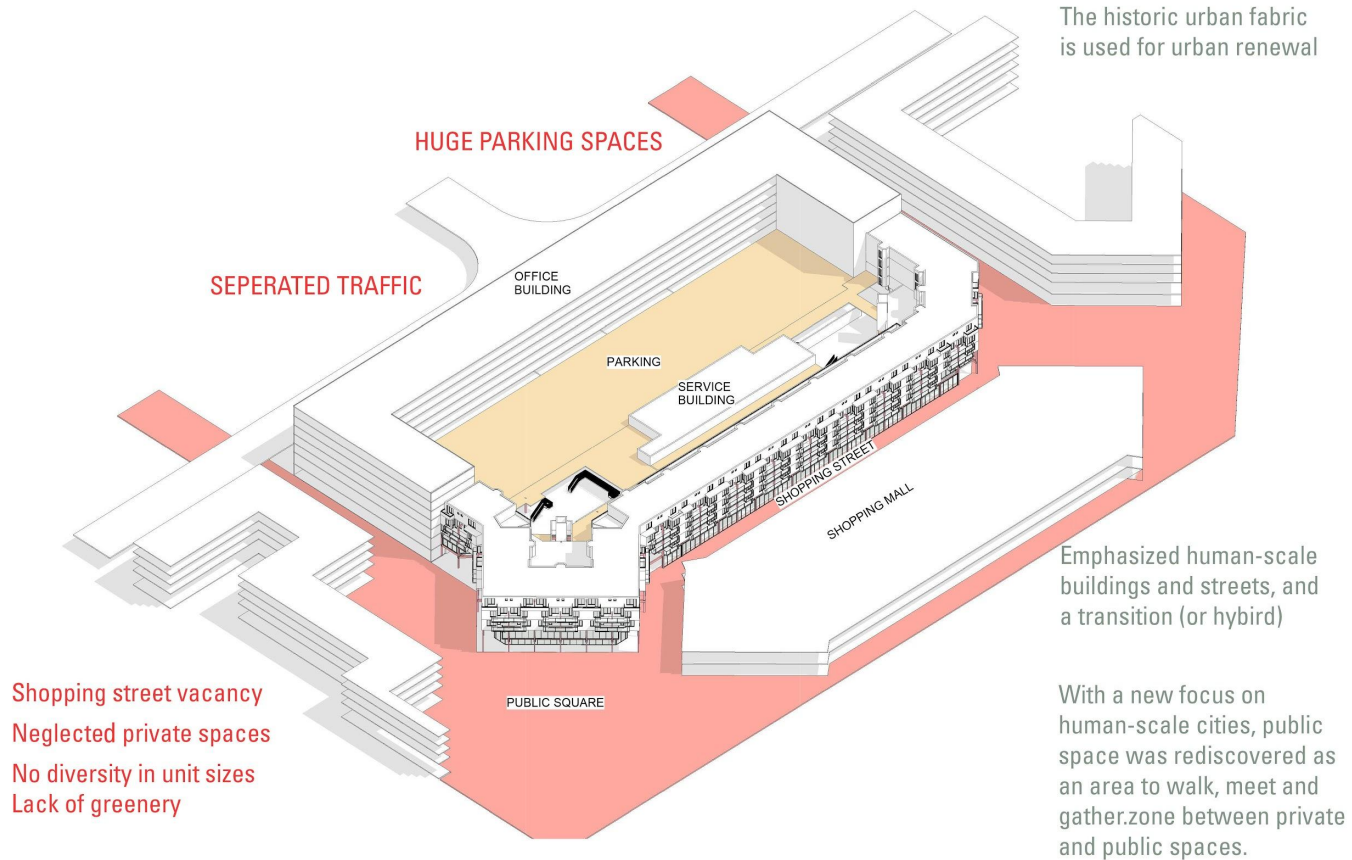


VEHICLE MOBILITY



NEGLECTED PUBLIC SPACES

CHALLENGES AND POSSIBILITIES



RESEARCH BY DESIGN

“By the end of the 1960s, most urban planners and civil engineers realised **that the future was difficult to predict**. This led to a less biased standpoint regarding the “make-ability” of society in the sense of social engineering, and a greater doubt about the guiding role of urban planning”

THE RESEARCH QUESTION

How Bijlmerplein can be densified using flexible design drivers by creating harmony with existing notions (juxtaposition)?

IMPROVE RESIDENTIAL QUALITIES

First of all residential qualities in the cluster 4 were vague and neglected: no communal meeting space, poor circulation, dark and shady nooks were perfect place for drug dealers and homeless people, there was no playground for children.

INTRODUCE URBAN GREENERY

The cluster 4 had no greenery, the entire elevated deck and the ground floor was taken by car park, which is the notion of 1970s car mobility and consequence of Bijlmer urban planning with elevated roads and separation of functions. The project aims to introduce greenery and incorporate it into new urban landscape.

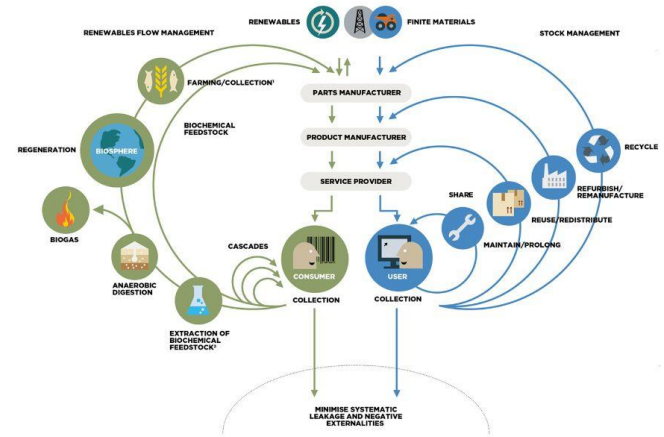
CAREFUL DENSIFICATION WITH PUBLIC PARTICIPATION

The project aims to densify the area. House shortage in the Netherlands is evident issue and by 2030 Dutch government aims to build 1 million new homes. Bijlmerplein is excellent example for new housing as it has metro station and other public transport nearby. Bijlmerplein is the hub for shopping which can also be enhanced by bringing more residents. Also, vacant parking garages also are potential for new housing.

POST MODERN ARCHETYPES

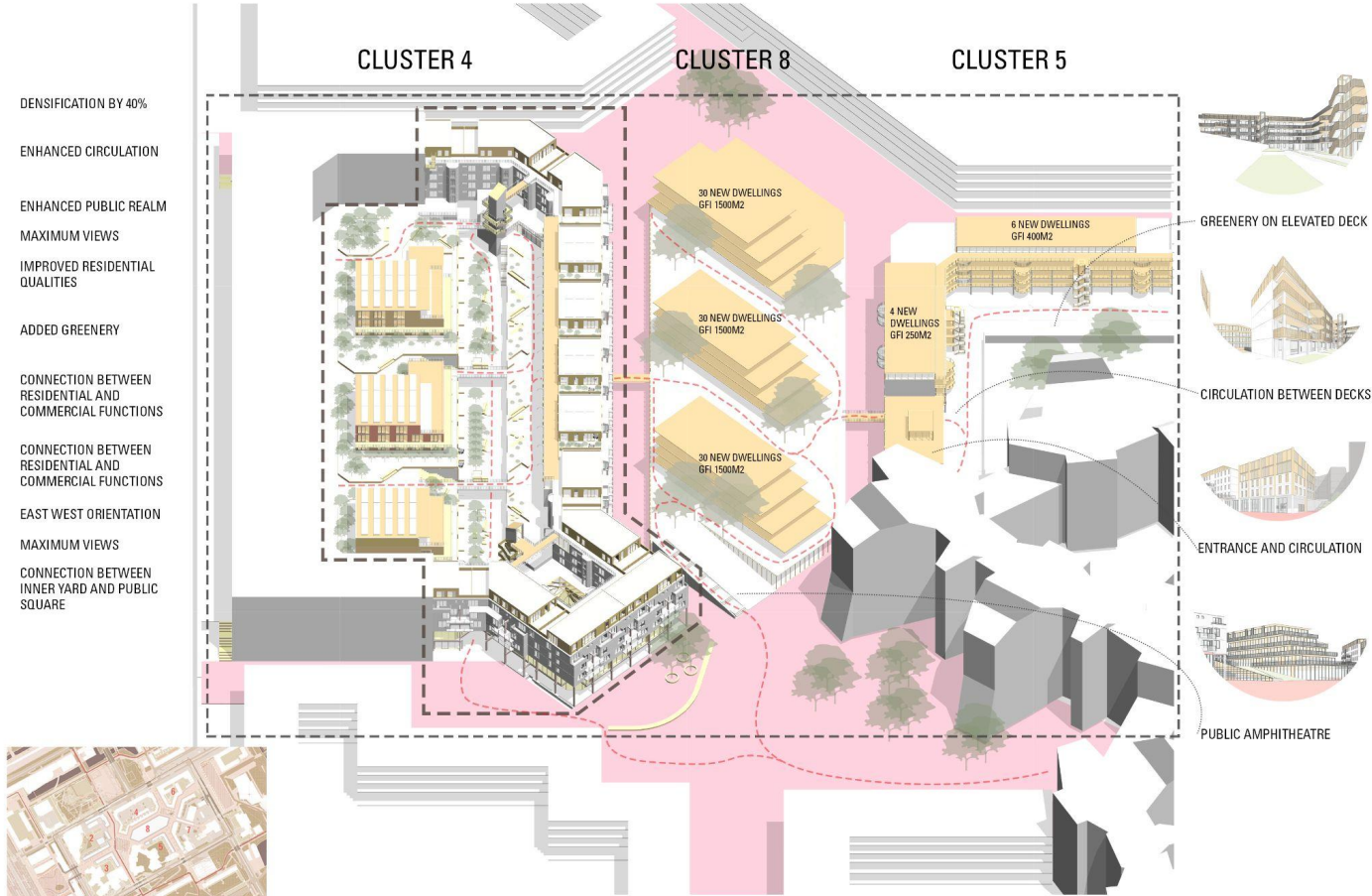
From the heritage perspective, archetypes are purified and introduced into the design. They were given more importance and opened for residents use.

ENVIRONMENTAL POSITION

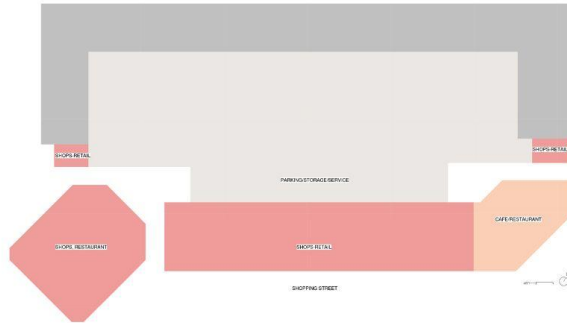


RESOURCE EFFICIENCY

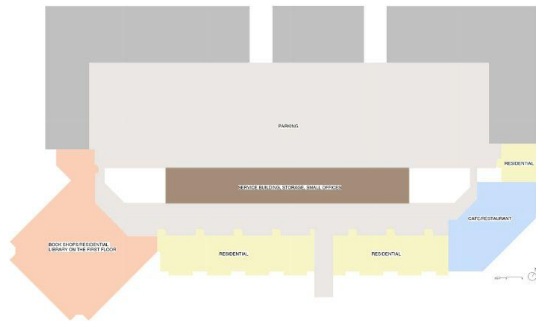
URBAN PROPOSAL



EXISTING SITUATION

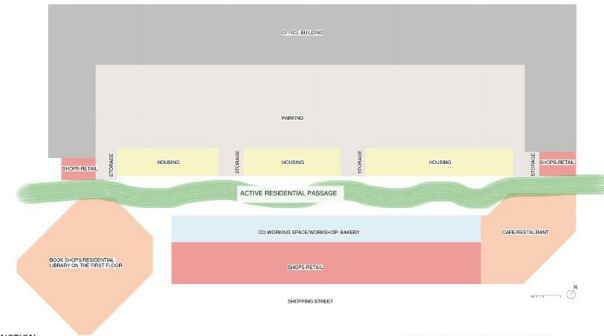


THE GROUND FLOOR



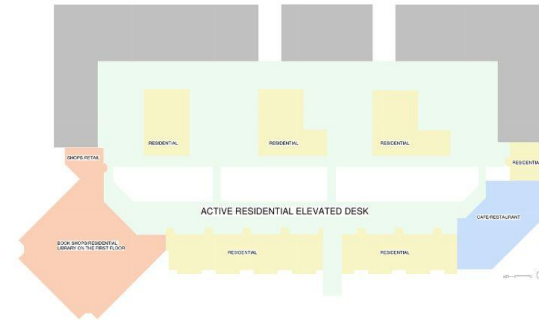
THE FIRST FLOOR

PROPOSED SITUATION



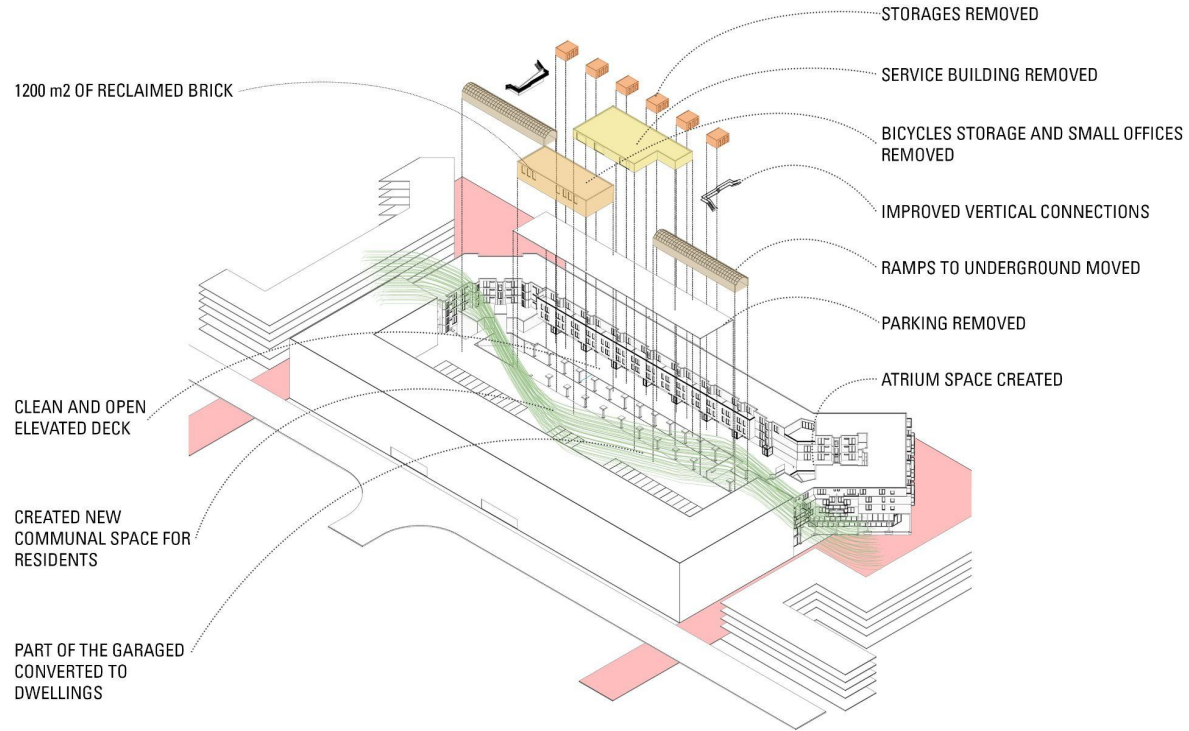
THE GROUND FLOOR

- SHOPPING FUNCTION
- RESIDENTIAL FUNCTION
- PUBLIC FUNCTION
- CO-WORKING
- STORAGE FUNCTION
- CATERING

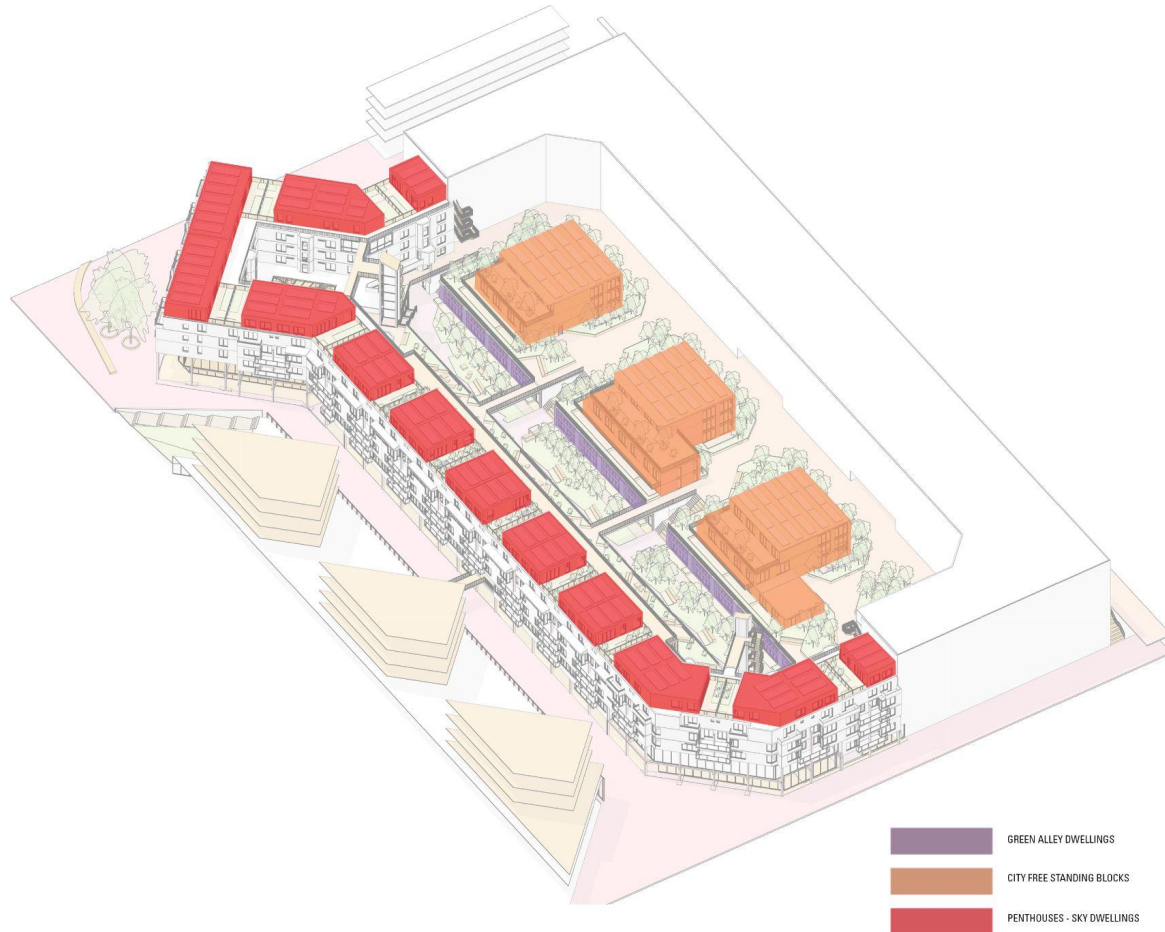


THE FIRST FLOOR

SCHEME OF INTERVENTIONS - REMOVED PARTS



SCHEME OF INTERVENTIONS - INTRODUCED PARTS



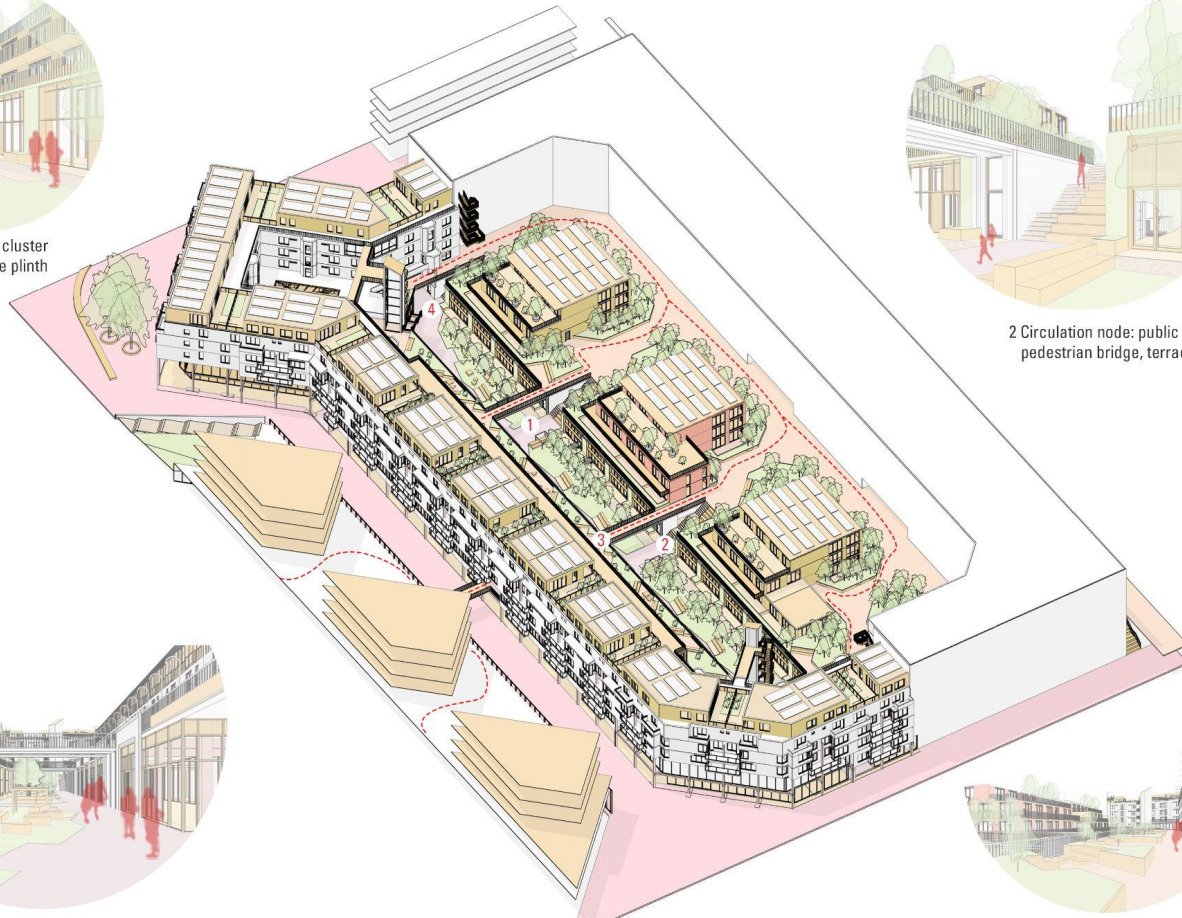
SAFE, OPEN AND PLEASANT INNER RESIDENTIAL SPACE



1 Residential cluster with an active plinth



2 Circulation node: public stair, pedestrian bridge, terraces

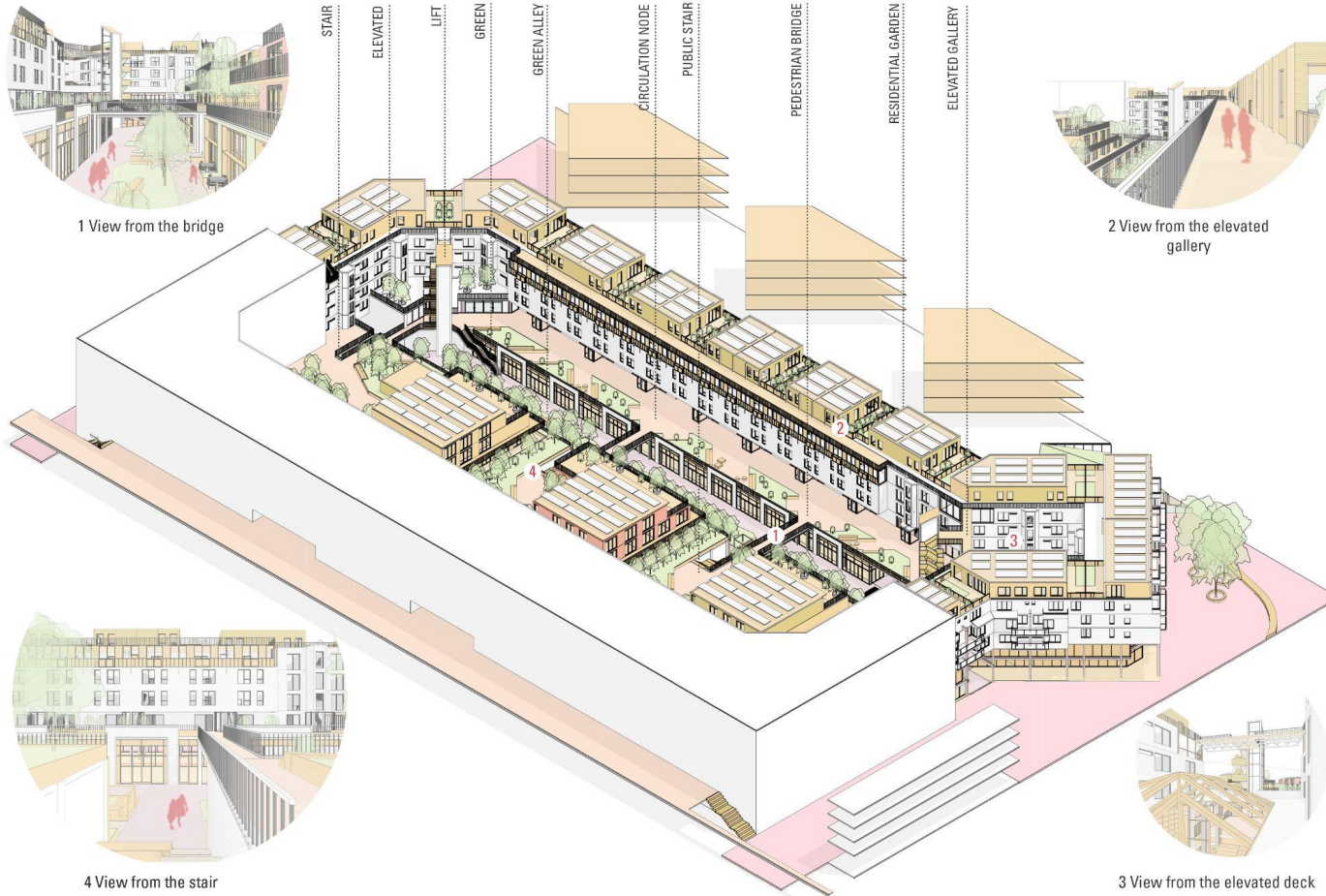


4 Green pedestrian alley

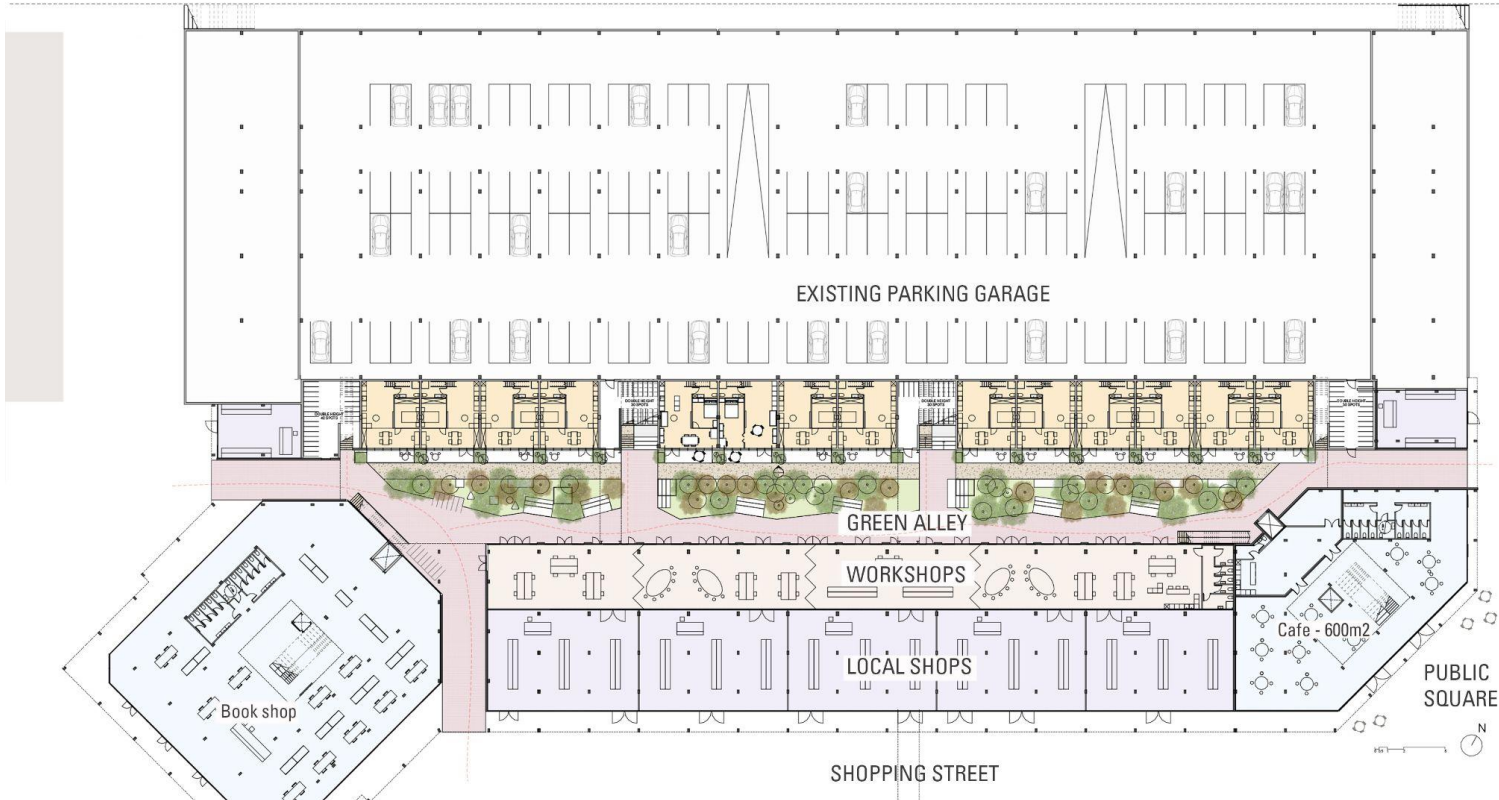


3 Elevated deck with "green pockets"

OBSERVABLE AND SAFE SPACE



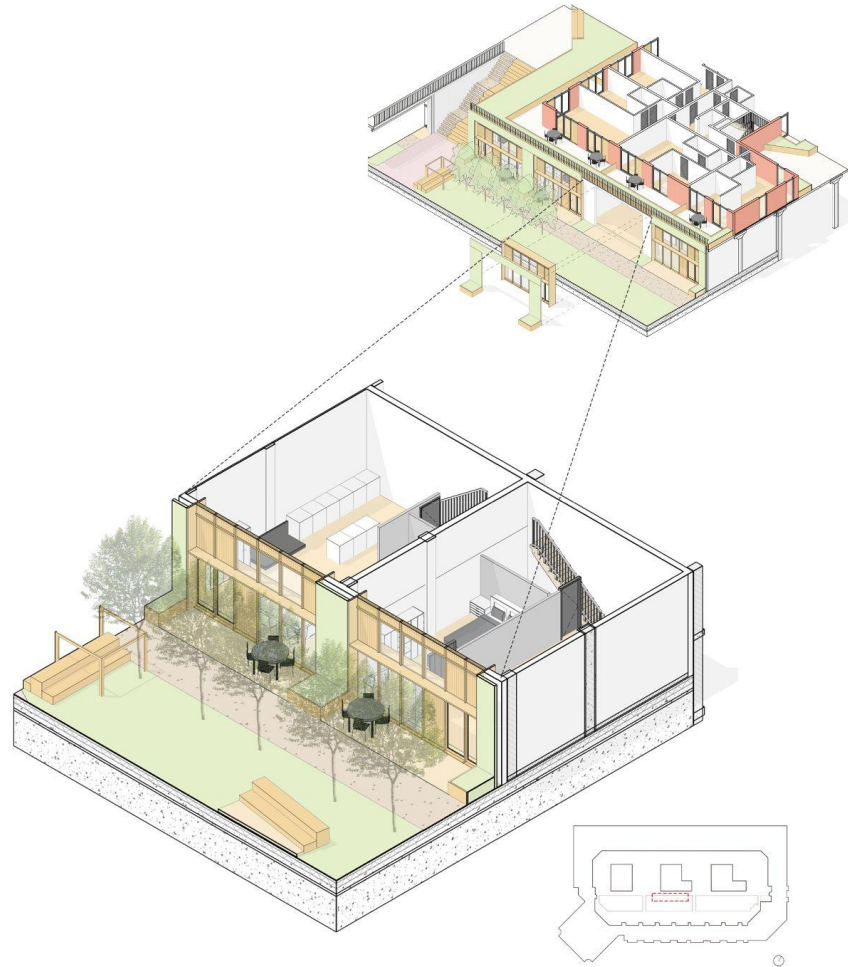
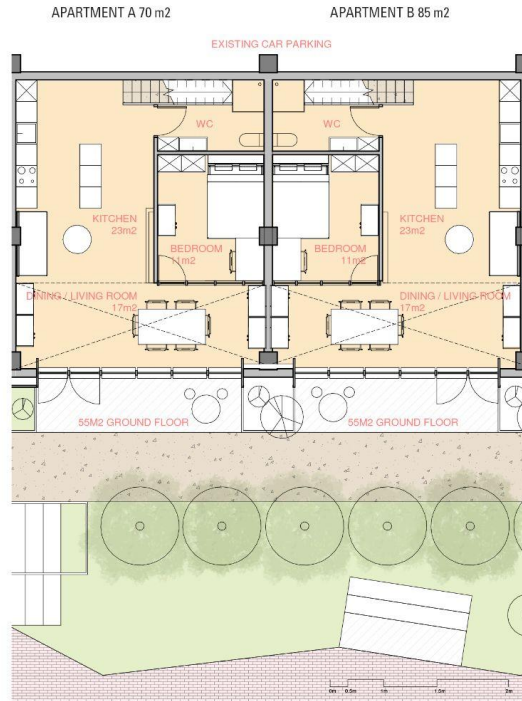
BIJLNERDREEF STREET



PUBLIC SQUARE

- EXISTING
- PUBLIC
- NEW HOUSING - 14 DWELLINGS (800 GFA)
- RETAIL
- WORKSHOPS - COWORKING (850 GFA)

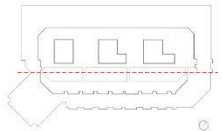
GREEN ALLEY DWELLINGS



FACADE OF THE GREEN ALLEY



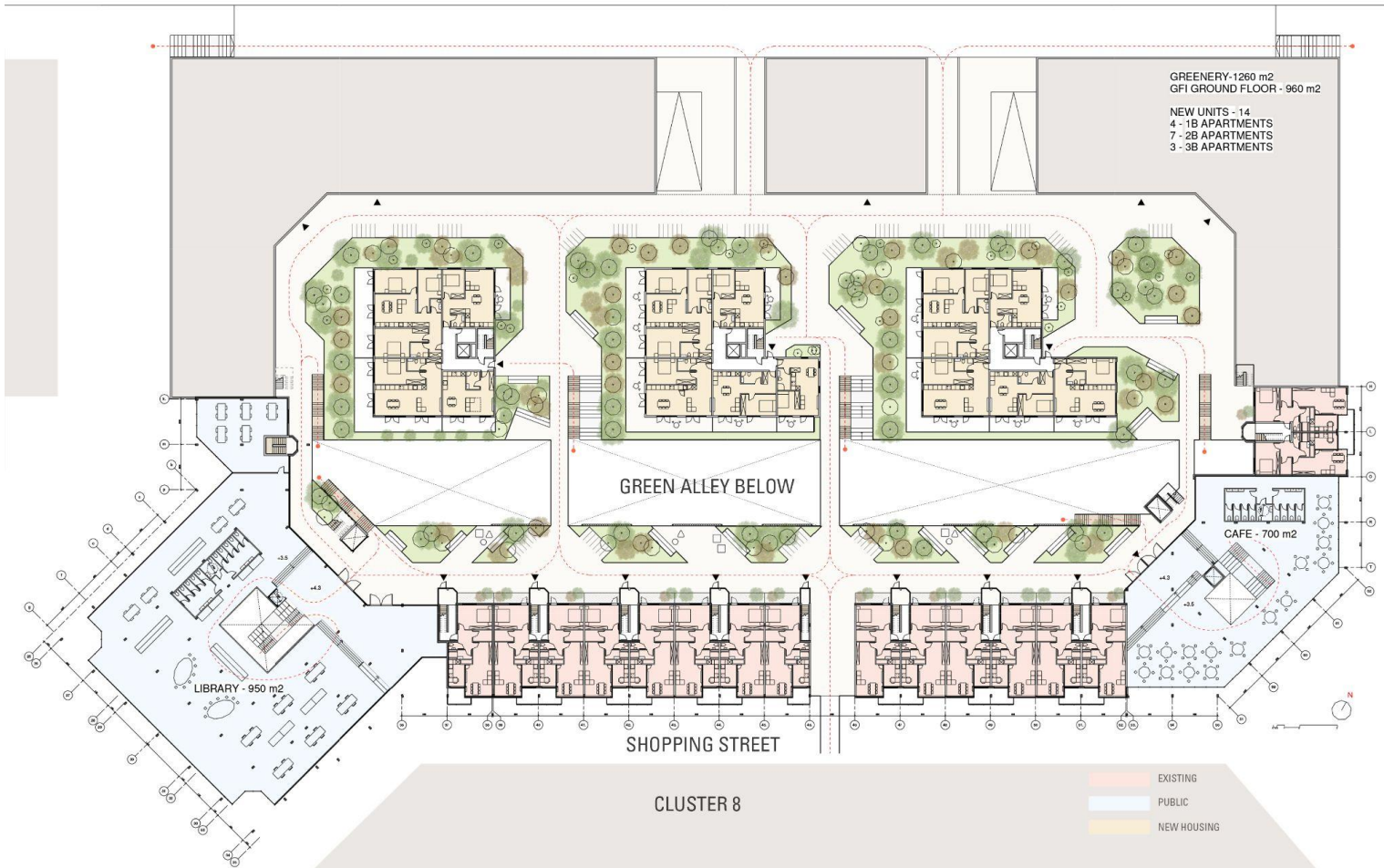
0 1 2 3 5



- Perimeter Edging
- Drip Irrigation Header
- Building wall
- Plywood Backer
- Sheet Waterproofing
- Cleat Hanger System
- Air Gap
- Waterproof Backer Board
- Continuous Back Layer of Fibrous Growth Media
- Front Layer of Fibrous Growth Media
- Plumbing and Electrical Cabinets
- Wet Basin or Dry Gutter to collect



BIJLMERDREEF STREET



FACADE OF THE NORTH SIDE (COURTYARD SPACE)



DIMENSIONAL STABILITY

Lowered equilibrium moisture content of Thermowood makes it dimensionally stable and the material retains its shape far better than untreated wood. Therefore Lunawood is highly suitable for facades and other exterior applications.



ALL CLIMATES

Thermowood does not react to changes in temperature or humidity as drastically as untreated wood. Material is proven to work well in different climates.



WEATHER ENDURANCE

As result of thermal modification, Finnish types of woods are transformed into durable, weather endurance building material. LunaThermo D has decay resistance class 2.



NON TOXIC

Thermowood is produced using only natural methods, heat and steam. Lunawood products are completely natural and free from chemical additives



RESIN FREE

Resin is removed from the wood during the thermal modification process. As result, the wood does not secrete resin even high temperatures.



THERMAL INSULATION

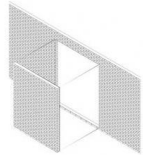
Tests have shown that the thermal conductivity of Thermowood is reduced by around 20-25% compared to untreated coniferous wood.



WOOD



'Harvesting' brickwork



Brick wall panel cut out of existing building in one piece (cement in mortar retains strength)

Recycled brickwork



Panel with frame surrounding brick

Initial assembly



Mounted on welded teel frame of I or U profiles

Brackets



Panel hung from load-bearing profile brackets

Construction



Fitted with brackets, panel is attached to internal wall and insulation

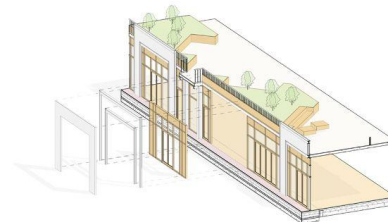
finished assembly



Masonry elements can be produced in varying sizes and according to same principles



RECYCLED BRICK

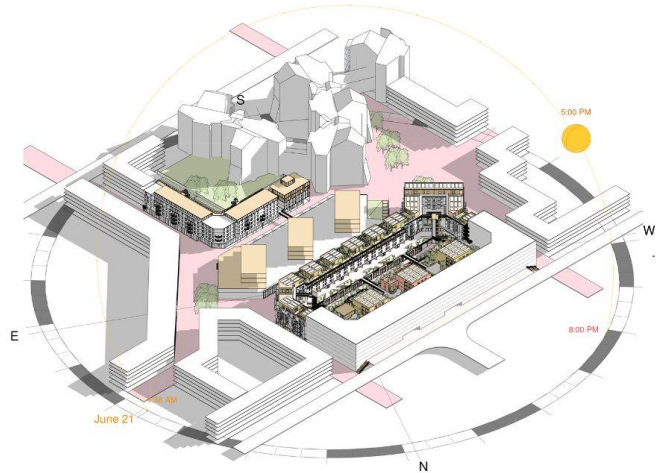
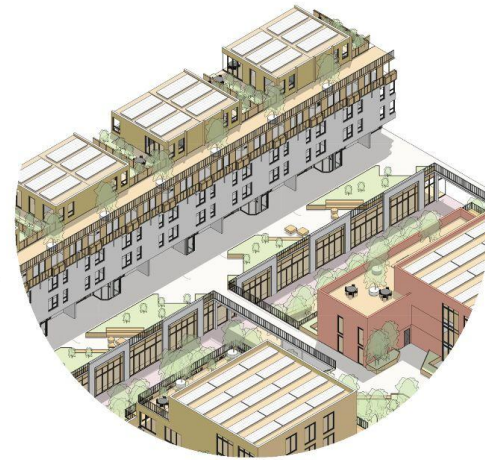




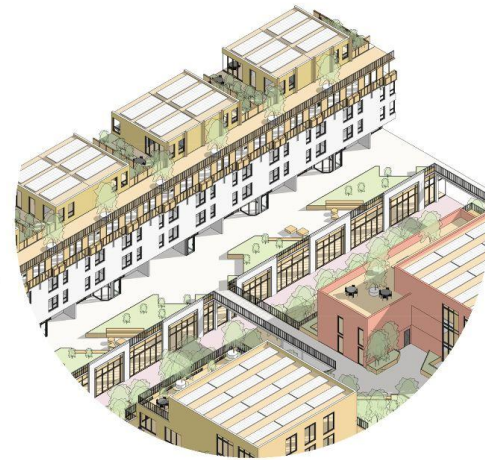
SHADOW STUDY



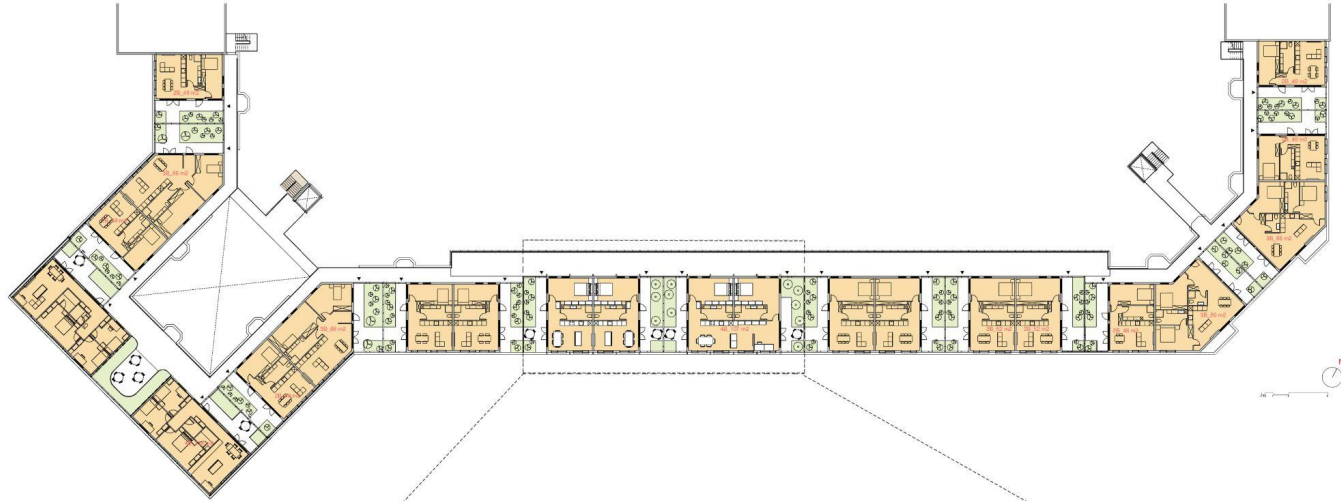
June Solstice - 1PM



June Solstice - 5PM



"SKY DWELLINGS"



20 NEW DWELLINGS

2B - 54M² - 14 UNITS

3B - 86M² - 4 UNITS

4B - 124M² - 2 UNITS

MODULAR SYSTEMS AND TIMBER PREFABRICATION



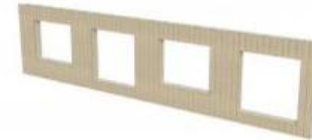
Wall elements



Massive wood panels are ordered with ready cut-outs and edge formings.



The panels are equipped with insulation, sheetings, frame structures, etc.



The slab and wall elements are ready to be connected to each other.

Modular elements



The wall and slab elements are connected to form a modular element.

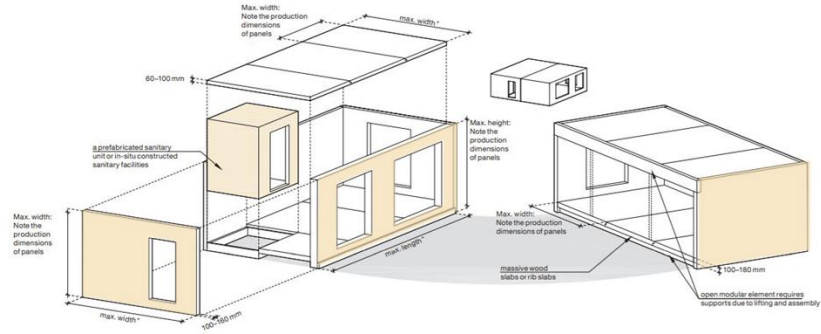


Building services equipment, interior surfaces and fixtures are installed into the module.

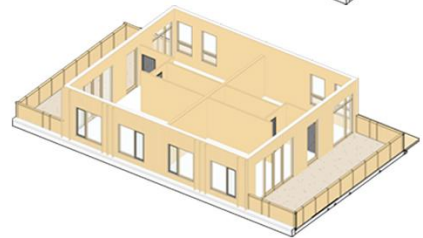


Once it is ready, the modular element is wrapped and transported to the site.

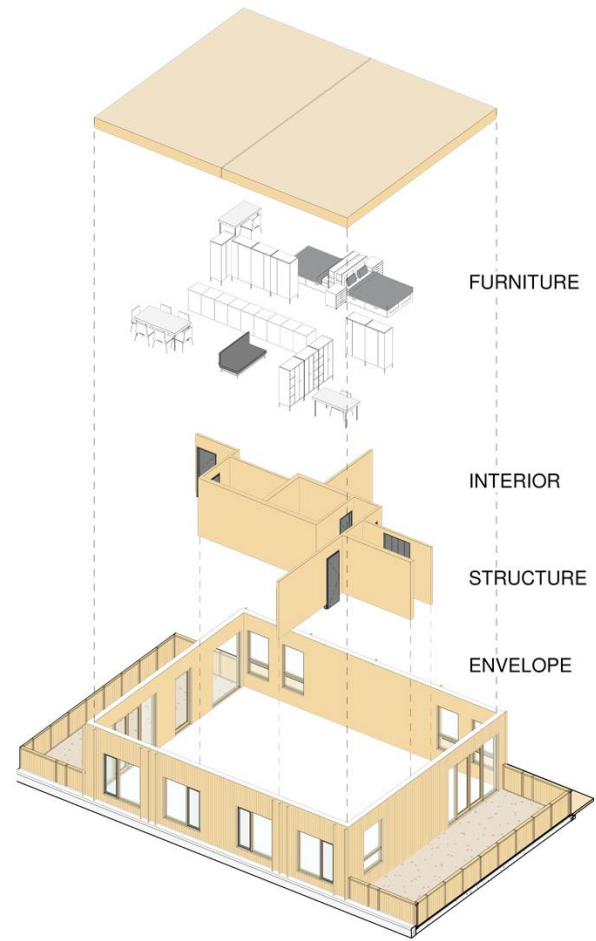
MODULAR SYSTEMS AND TIMBER PREFABRICATION



ONE DWELLING

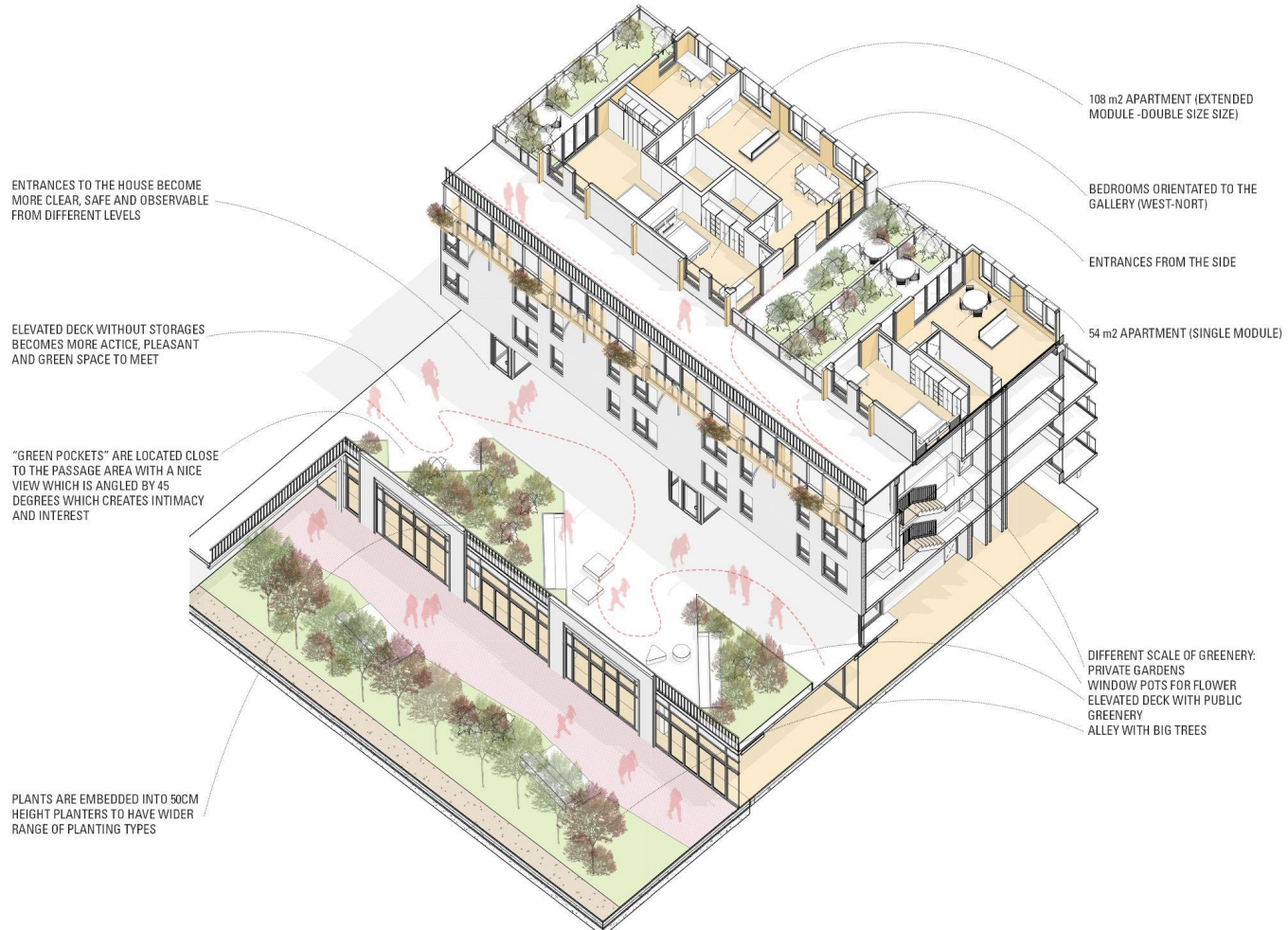


TWO DWELLINGS



The apartment usually consists of one or two modular elements. The technical module includes the sanitary facilities and most of the building services equipment of the apartment. To form bigger apartments with more bedrooms and living space, the apartment can be enlarged with a room module.

DIFFERENT SCALE OF GREENERY AND CIRCULATION SPACES



STRUCTURAL CONCEPT

Exterior wall
CLT (Exposed inside) 120 mm
Wood Fiber Board (WFB) 200 mm
WFB T&G 100 mm
Strapping 40 mm
Wood Siding T&G 25 mm
U-value = 0.119 W/(m2K)

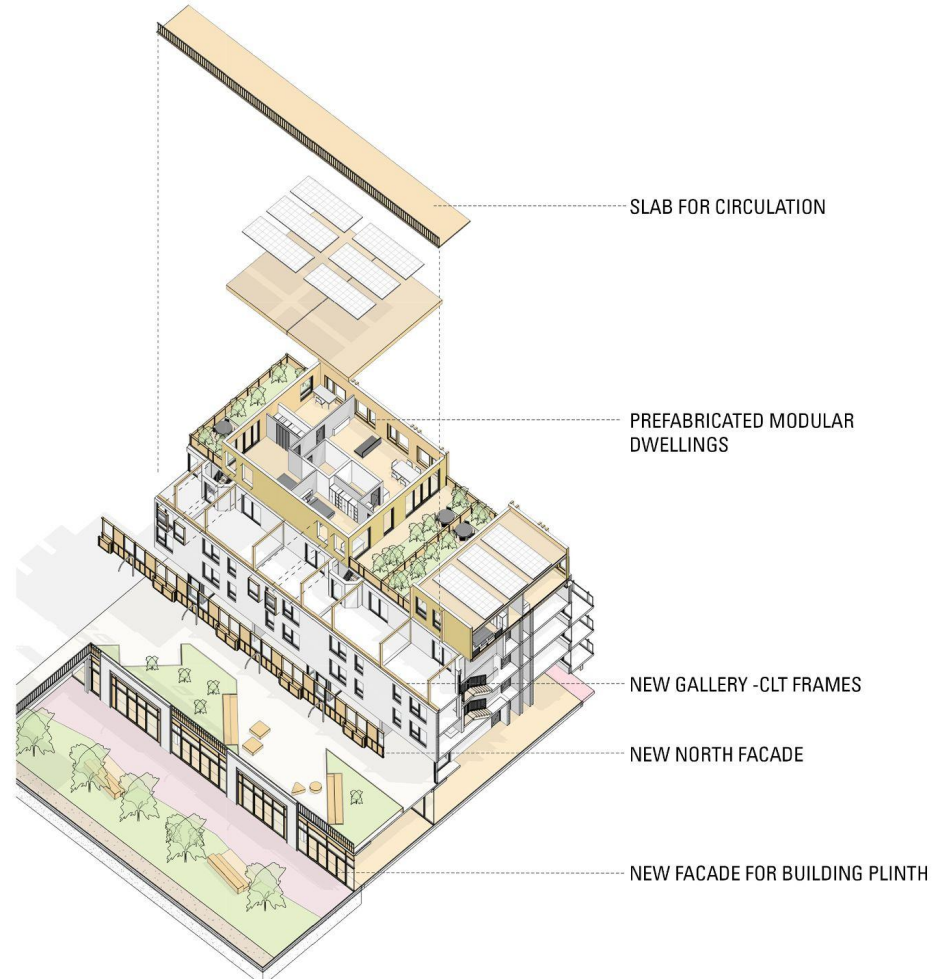
Roof
CLT (exposed inside) 140 mm
WFB 240 mm
WFB T&G 120 mm
DO 180 membrane
Strapping 38 mm
Cross Strapping 38 mm
Metal Roofing
U-value = 0.101 W/(m2K)

Windows/ Frame
Wood Aluminum Clad windows with
motorized exterior venetian blinds
U w-value = 0.63 W/(m2K)

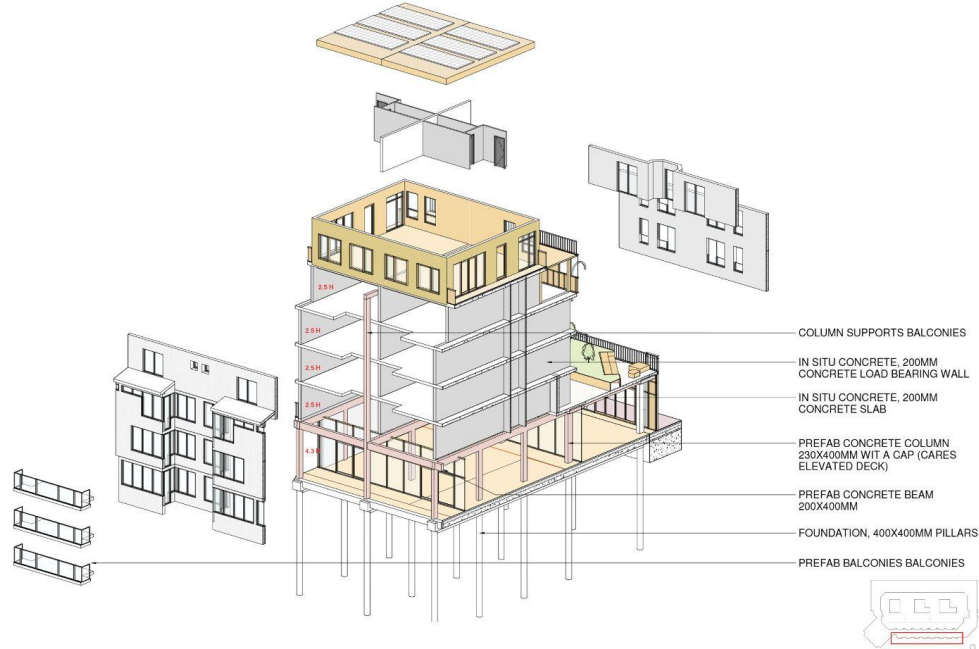
Basement floor / floor slab

Oak Flooring 19 mm
WFB 13 mm
Plywood 19 mm
Strapping 45 mm
Concrete (reinforced) 152 mm
6 mil Poly 0.6 mm
EPS 152 mm

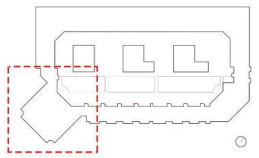
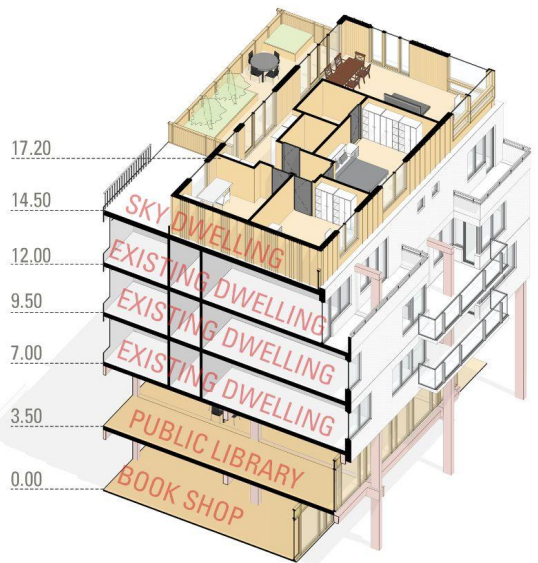
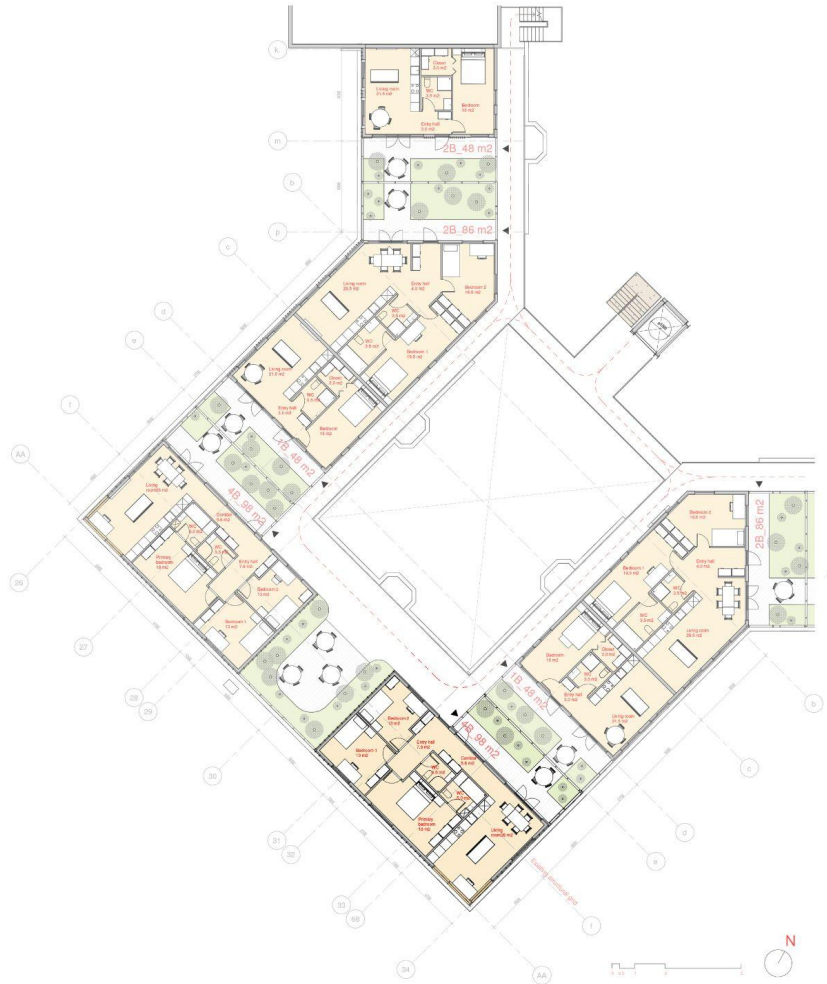
Gravel Compacted 100 mm
U-value = 0.097 W/(m2K)



SHOPPING STREET FACADE

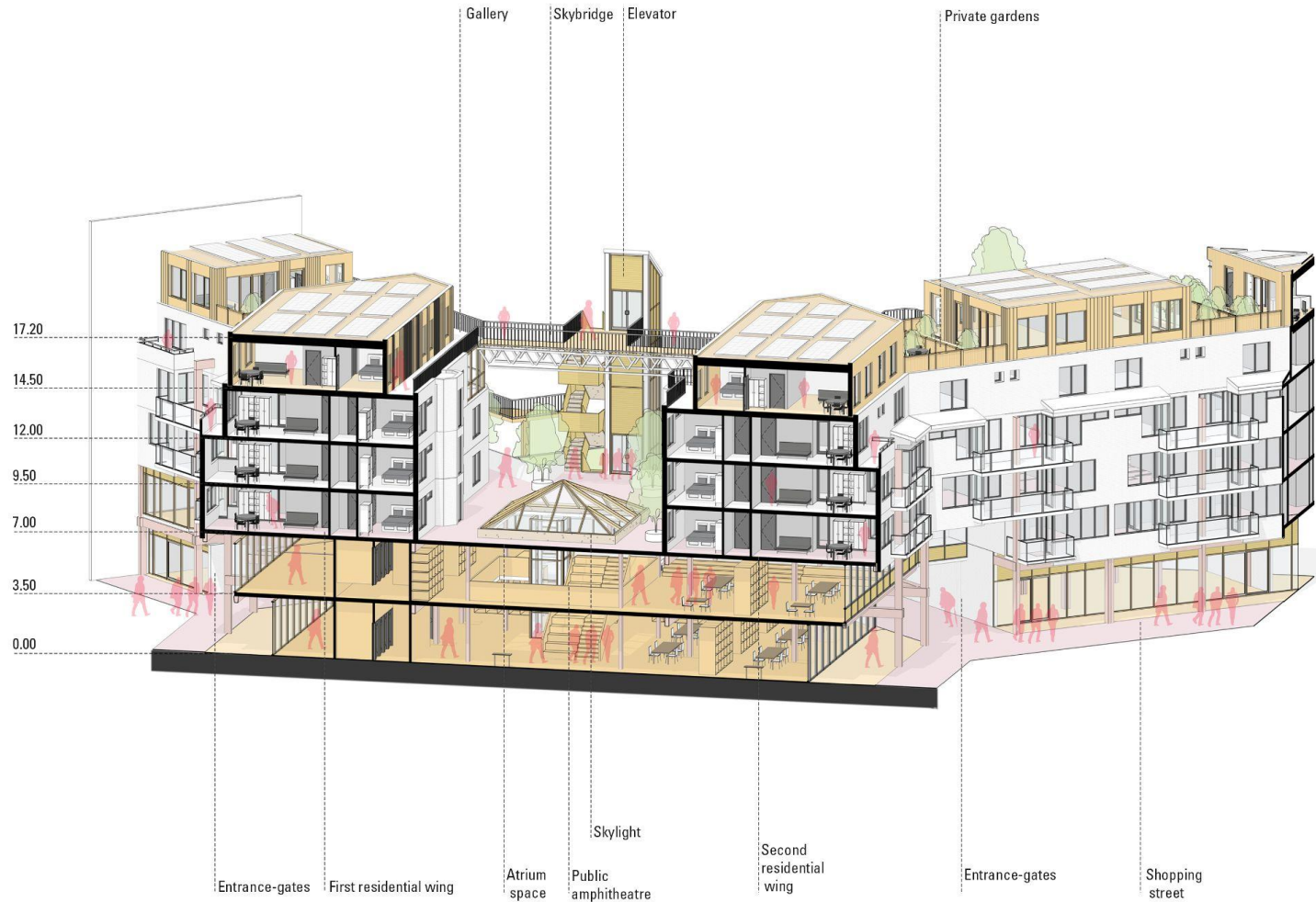


CORNER WING COMPOSITION



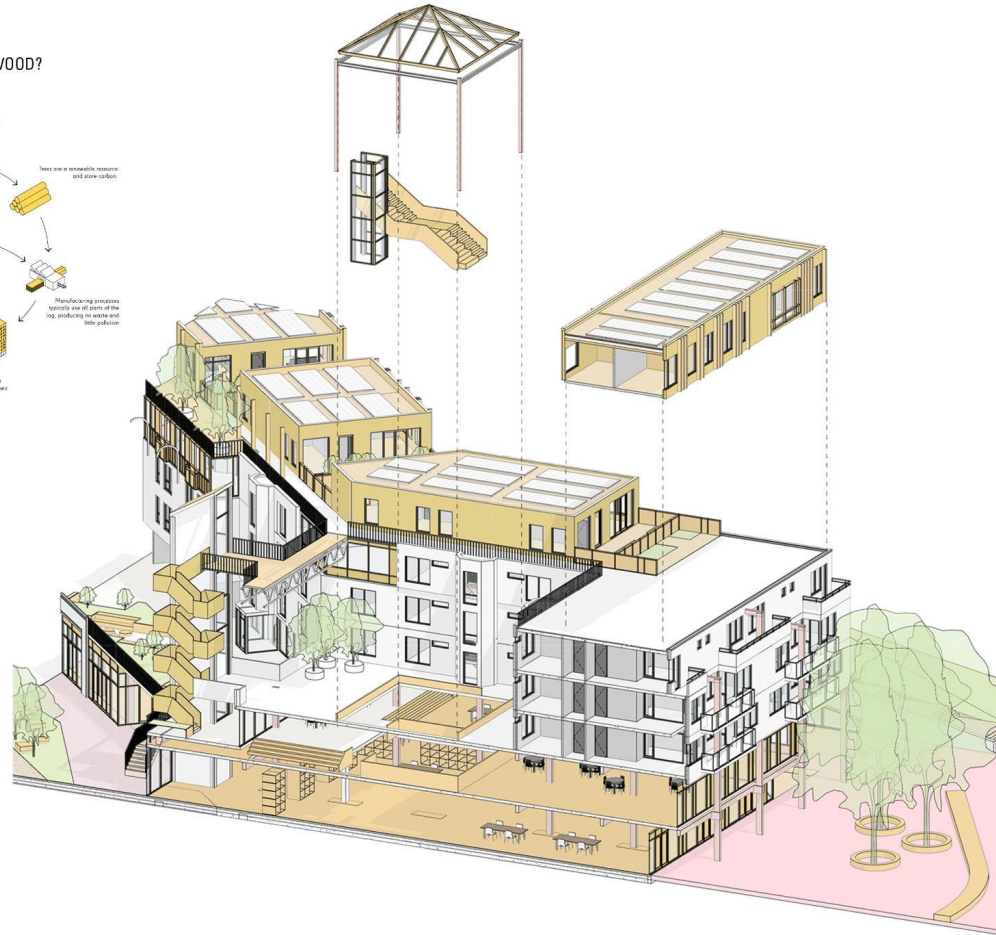
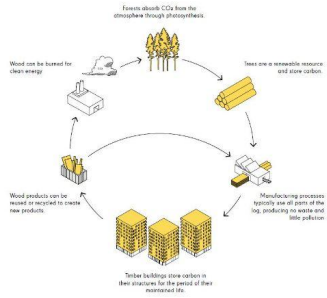


CORNER WINGS' TRANSPARENCY AND CONNECTIONS

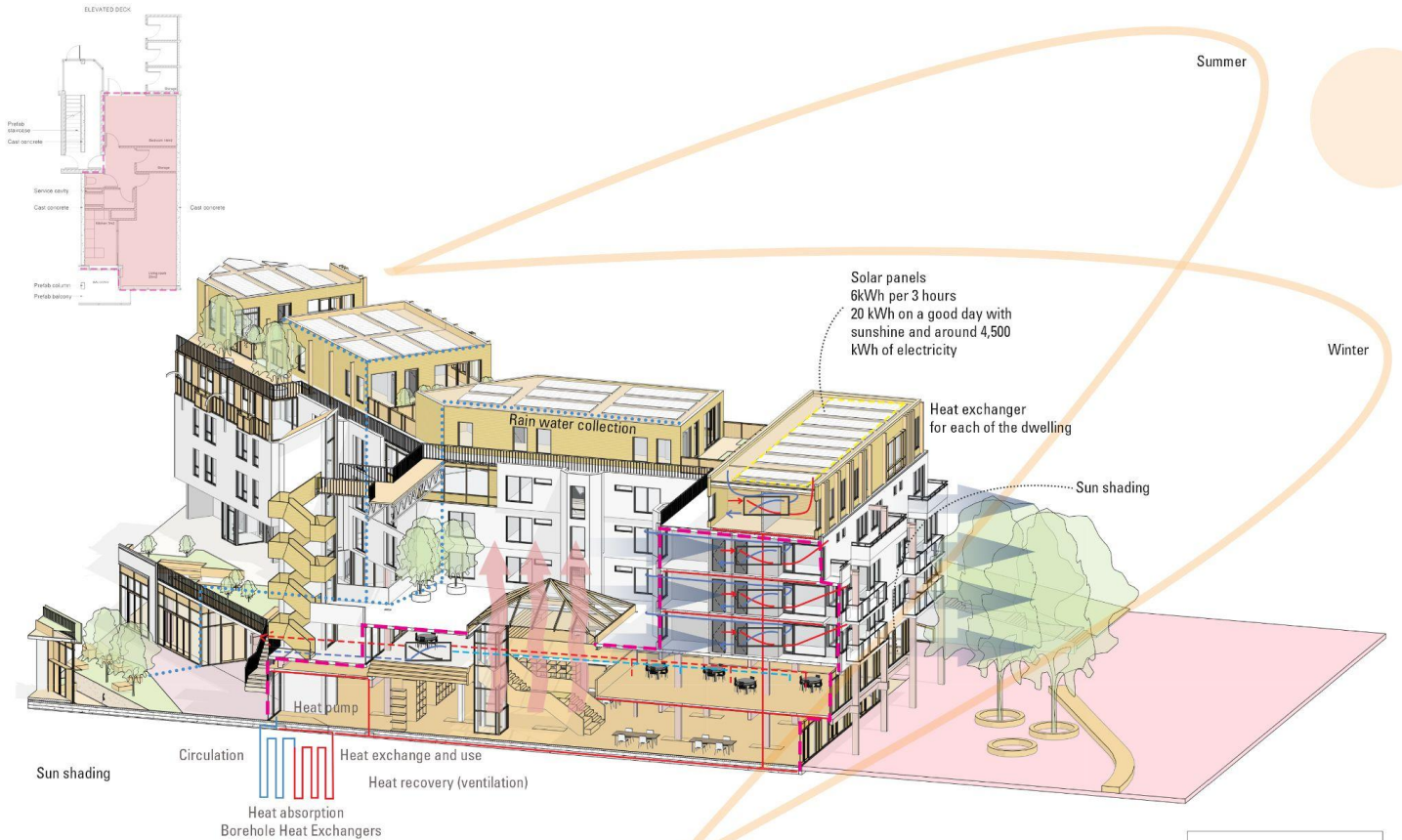


THE MAJOR INTERVENTIONS OF THE CORE

WHY BUILD IN WOOD?



CLIMATE SCHEME



Borehole Heat Exchangers (BHE)

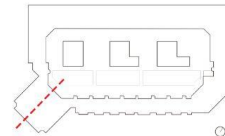
are being increasingly utilized for heat purposes in public as well as communal infrastructure at depths ranging from 100 to 400 m. BHE technology allows for heat exchange between an underground rock mass and heat carrier, circulating in the closed-loop system between the surface and the reservoir. BHE systems are able to provide heat in winter seasons and cooling in summer months.

Pros of Passive Cooling:

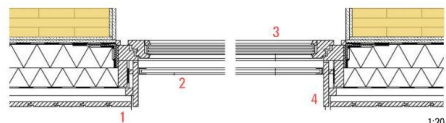
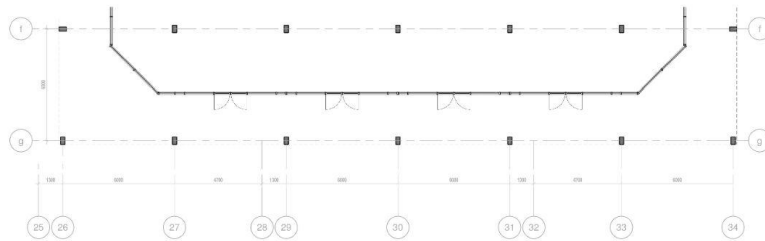
- Can be installed as part of your heat pump system saving time, money and space.
- Low cost to run – only uses energy to circulate the brine through the system.
- 100% carbon free if used with renewable electricity suppliers such as Octopus Energy.
- Moves the warm energy from the building and charges the ground with it throughout the summer ready to be extracted in winter months, increasing efficiency.
- Increased comfort levels.
- Eligible for the Renewable Heat Incentive financial benefit

PV panels

Photovoltaic Panels or solar modules are made up of multiple cells which are cascaded together in series and encapsulated in an environmentally friendly casing producing a single solar module with a higher voltage output than with just one single PV cell as shown.



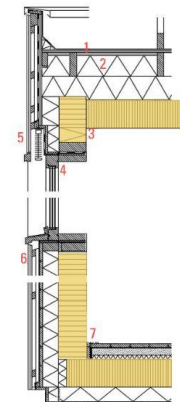
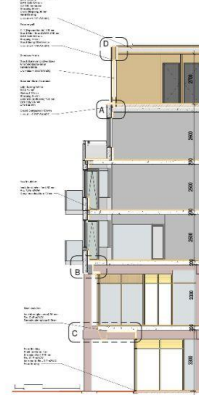
THE MAIN FACADE



DETAIL A - HORIZONTAL SECTION

- 1 14.21 mm larch tongue and groove boarding; 2x/8 mm battens
- 30/38 mm counter battens
- insulating layer: 100 mm mineral wool
- thermal insulation
- convexion barrier
- 2= 12.5 mm plasterboard
- 130 mm G2 wall
- 2= 12.5 mm plasterboard
- 2 15 10 mm laminated safety glass in
- 3 30/30 mm aluminum channel frame
- 4 16 triple glazing in wood frame

1:20



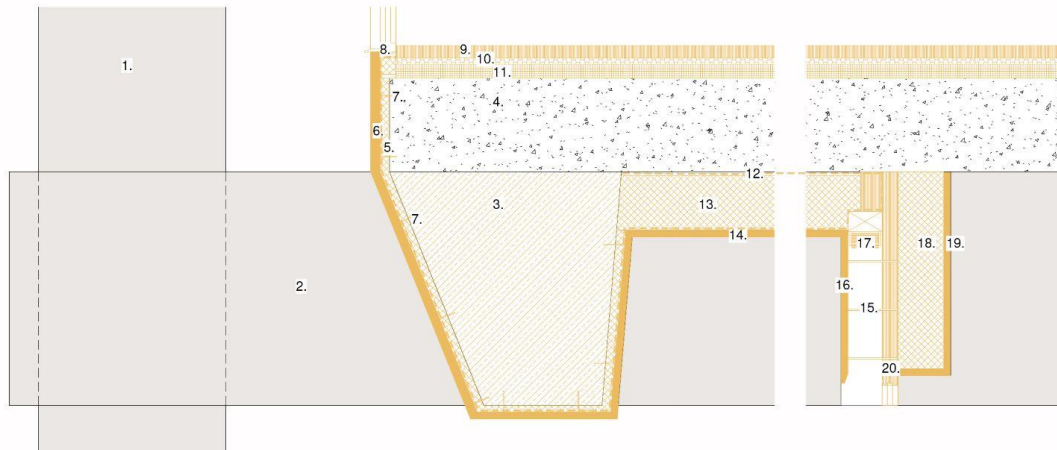
DETAIL A - 0

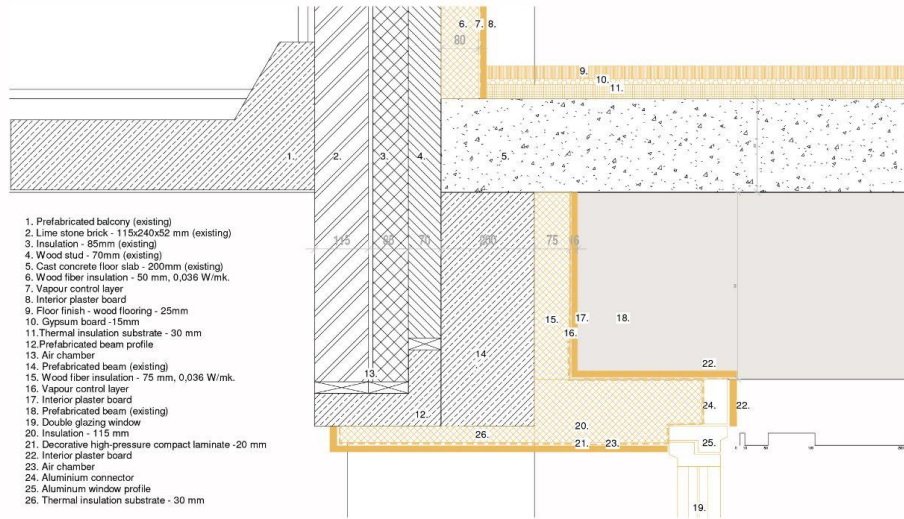
- 1 Two-layer bituminous seal
- 2 27 mm softwood boarding
- 3 500 mm timber supporting structure/ventilating layer polyphano shearing
- 4 27 mm softwood boarding
- 40 230 mm timbers to felt/wood fibre insulation
- 100/10 mm softwood beams/wood fibre insulation
- 100/200 mm softwood beams/wood fibre insulation
- 5 27 mm softwood boarding; polyphano vapour retarding layer;
- 6 110 mm services layer; 30 mm sheeps' wool acoustic insulation;
- 7 Black mat as moisture protection; 30/40 mm silver fir strips, untreated; 2.30/60 120 mm saxon silver fir strip cladding; 30/50 mm softwood battens painted black

1:20



1. Prefabricated column - 400mm (existing)
2. Prefabricated beam - 400mm (existing)
3. Prefabricated beam - 300mm (existing)
4. Cast concrete floor slab - 200mm (existing)
5. Extruded polystyrene (XPS) insulation -20 mm
6. Decorative high-pressure compact laminate -20 mm
7. Aluminum connectors
8. Aluminum window profile
9. Floor finish - wood flooring - 25mm
10. Gypsum board -15mm
11. Thermal insulation substrate - 30 mm
12. Vapour control layer
13. Wood fiber insulation - 50 mm, 0,036 W/mk.
14. Decorative high-pressure compact laminate -20 mm
15. Aluminum connectors
16. Decorative high-pressure compact laminate -20 mm
17. Automatic sun shadings
18. Wood fiber insulation - 50 mm, 0,036 W/mk.
19. Interior plaster board
20. Window profile

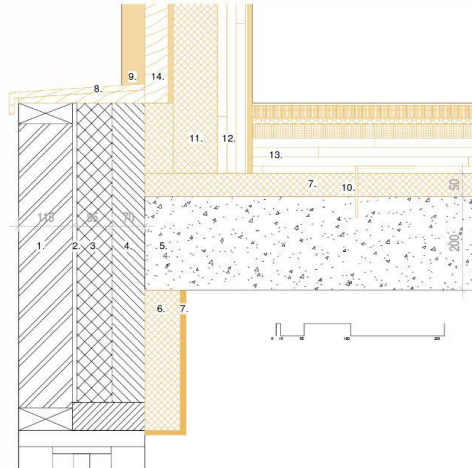




1. Prefabricated balcony (existing)
2. Lime stone brick - 115x240x52 mm (existing)
3. Insulation - 85mm (existing)
4. Wood stud - 70mm (existing)
5. Cast concrete floor slab - 200mm (existing)
6. Wood fiber insulation - 50 mm, 0,036 W/mk.
7. Vapour control layer
8. Interior plaster board
9. Floor finish - wood flooring - 25mm
10. Gypsum board - 15mm
11. Thermal insulation substrate - 30 mm
12. Prefabricated beam profile
13. Air chamber
14. Prefabricated beam (existing)
15. Wood fiber insulation - 75 mm, 0,036 W/mk.
16. Vapour control layer
17. Interior plaster board
18. Prefabricated beam (existing)
19. Double glazing window
20. Insulation - 115 mm
21. Decorative high-pressure compact laminate - 20 mm
22. Interior plaster board
23. Air chamber
24. Aluminium connector
25. Aluminium window profile
26. Thermal insulation substrate - 30 mm

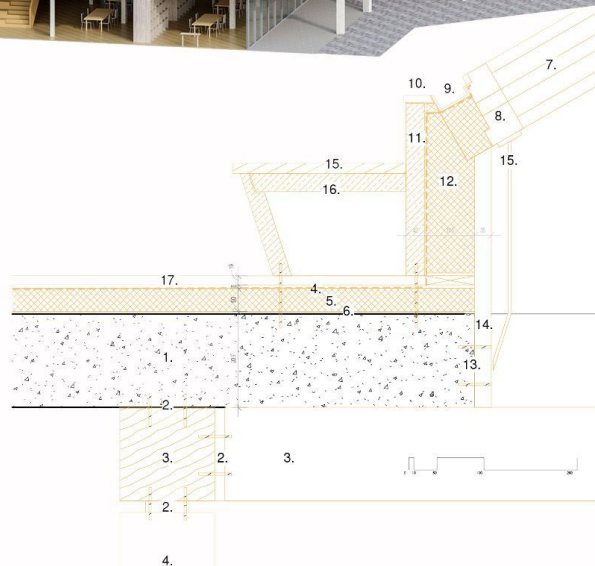


1. Lime stone brick - 115x240x52 mm (existing)
2. Air chamber
3. Insulation - 85mm (existing)
4. Wood stud - 70mm (existing)
5. Cast concrete floor slab - 200mm (existing)
6. Wood fiber insulation - 75 mm, 0,036 W/mk.
7. Wood fiber sound insulatio - 80 mm
8. stainless-steel eaves trim as lightning conductor on 20/20 mm alum. SHS
9. Thermal wooden slats
10. Steel connectors
11. Wood fiber insulation - 150 mm, 0,036 W/mk.
12. CLT structure floor 110mm
13. CLT structure floor - 110mm
14. Thermal wood cladding 50 mm





1. Existing concrete slab - 205 mm
2. Steel connector
3. Glulam timber beam - 200x200 mm
4. Glulam column - 200mm
5. Wood fiber insulation - 50 mm, 0,036 W/mk.
6. Vapour control layer
7. Sky light - laminated glass, 8 mm
8. Aluminum profile of skylight
9. Aluminum drainage profile
10. Prefab concrete cap
11. Prefab concrete wall element
12. Wood fiber insulation - 105 mm, 0,036 W/mk.
13. Steel connector
14. Aluminum support
15. Thermal wood plate
16. Prefabricated concrete bench element
17. Sand stone tiles
18. Automatic opening system





ATMOSPHERE OF PENTHOUSES



THE LINK BETWEEN THE GREEN ALLEY AND PUBLIC SQUARE



UPPER DECK WITH SKYLIGHT



ATRIUM SPACE



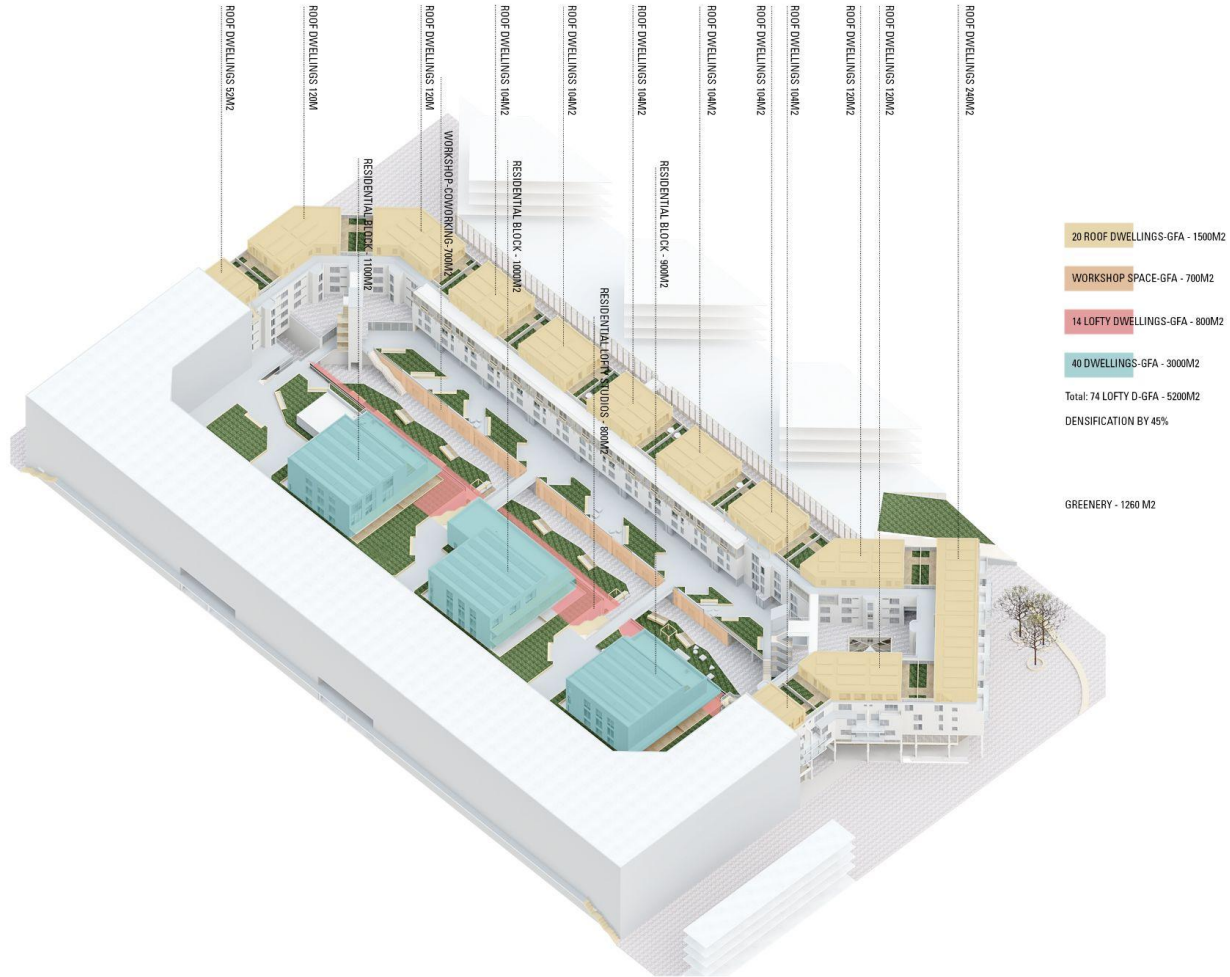
GROUND FLOOR OF THE LIBRARY





CONCLUSIONS

IMPROVEMENTS OF THE BLOCK REGARDING GOVERNMENT POSITION



IMPROVEMENTS REGARDING USERS (RESIDENTS) POSITION



GREEN POCKETS - COMMUNAL SPACES



GALLERY OF THE SKY DWELLINGS



PUBLIC AMPHITHEATRE - OUTSIDE CINEMA



TERRACES, COMMUNAL SPACES



GREEN ALLEY - TERRACES, PLAYGROUNDS



UPPER COURTYARD - MEETING SPACE



ELEVATED STREET - MEETING SPACE



PEDESTRIAN BRIDGES - INTERSECTIONS

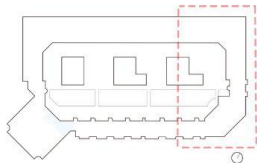
IMPROVEMENTS REGARDING OWNERS POSITION

Enhanced social activities - outside theatre, workshops, playgrounds, urban gardens

Densification and interventions without relocating current tenants

Improved social coherence - Residents with different scale of income

More ownership - less general maintenance



Safety - active ground and first level, terraces and gardens

Less undesirable activities - open spaces

IMPROVEMENTS REGARDING "MAKERS" POSITION

GATES

EXISTING



ISSUES
INNER SPACE IS NOT PLEASANT
DARK ENTRANCE
NO LIGHTING
NEGLECTED PLINTH

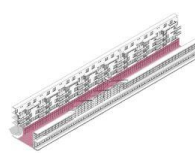
PROPOSED



IMPROVEMENTS
INNER SPACE BIG, LIGHT, ATTRACTIVE
LIGHTING
ACTIVE PLINTH

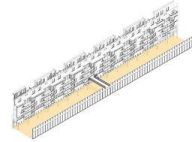
COLONNADE

EXISTING



ISSUES
COLONNADE PUCHED TO THE EDGE OF THE FACED, NEGLECTED THE IMAGE OF THE BUILDING
NEGLECTED PLINTH

PROPOSED



IMPROVEMENTS
COLONNADE IS RECREATED BY PUSHING BACK THE FACADE
CLUSTER 8 IS DESIGNED AS ONE STOREY PLINTH, SO IT LETS TO GET MORE SPACE AT THE SHOPPING STREET

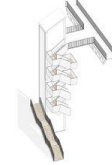
TOWER

EXISTING



ISSUES
ELEVATOR TOWER IS NOT IN USE
NEGLECTED

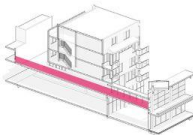
PROPOSED



IMPROVEMENTS
EXTRA 25 APARTMENTS ON TOP WILL ADD MORE NEED OF USING ELEVATOR
ELEVATOR TOWER CONNECTS GROUND FLOOR, LIBRARY, UPPER DECK AND SKY UNITS
PROVIDES VIEW POINT OVER THE "GREEN ALLEY"

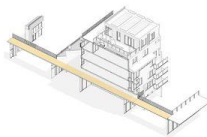
BRIDGE

EXISTING



ISSUES
BRIDGE IS NEGLECTED
COVERED IN GLASS
UNPLEASANT
THERE IS NO CONTINUOUS FLOW

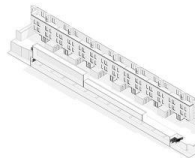
PROPOSED



IMPROVEMENTS
OPEN DESIGN
THERE WAS CREATED A FLOW BETWEEN CLUSTERS

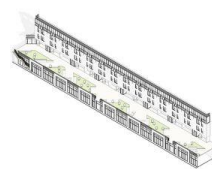
STREET

EXISTING



ISSUES
CLOSED, NARROW, CRAMPED WITH STORAGES
NO COMMUNAL SPACE
NO GREENERY

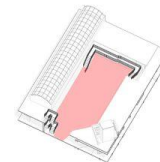
PROPOSED



IMPROVEMENTS
OPEN FOR RESIDENTIAL ACTIVITIES
PLAYGROUNDS, BENCHES, SPOTS FOR PLANTINGS, TERRACES
GREEN POCKETS

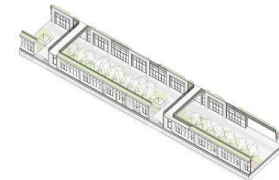
COURTYARD

EXISTING



ISSUES
NEGLECTED
DESOLATED
NO GREENERY
PASSIVE PLINTH

PROPOSED



IMPROVEMENTS
ACTIVATED
ACTIVE PLINTH
OPEN
ADDED GREENERY
INCLUDED SMALL ARCHITECTURE FEATURES