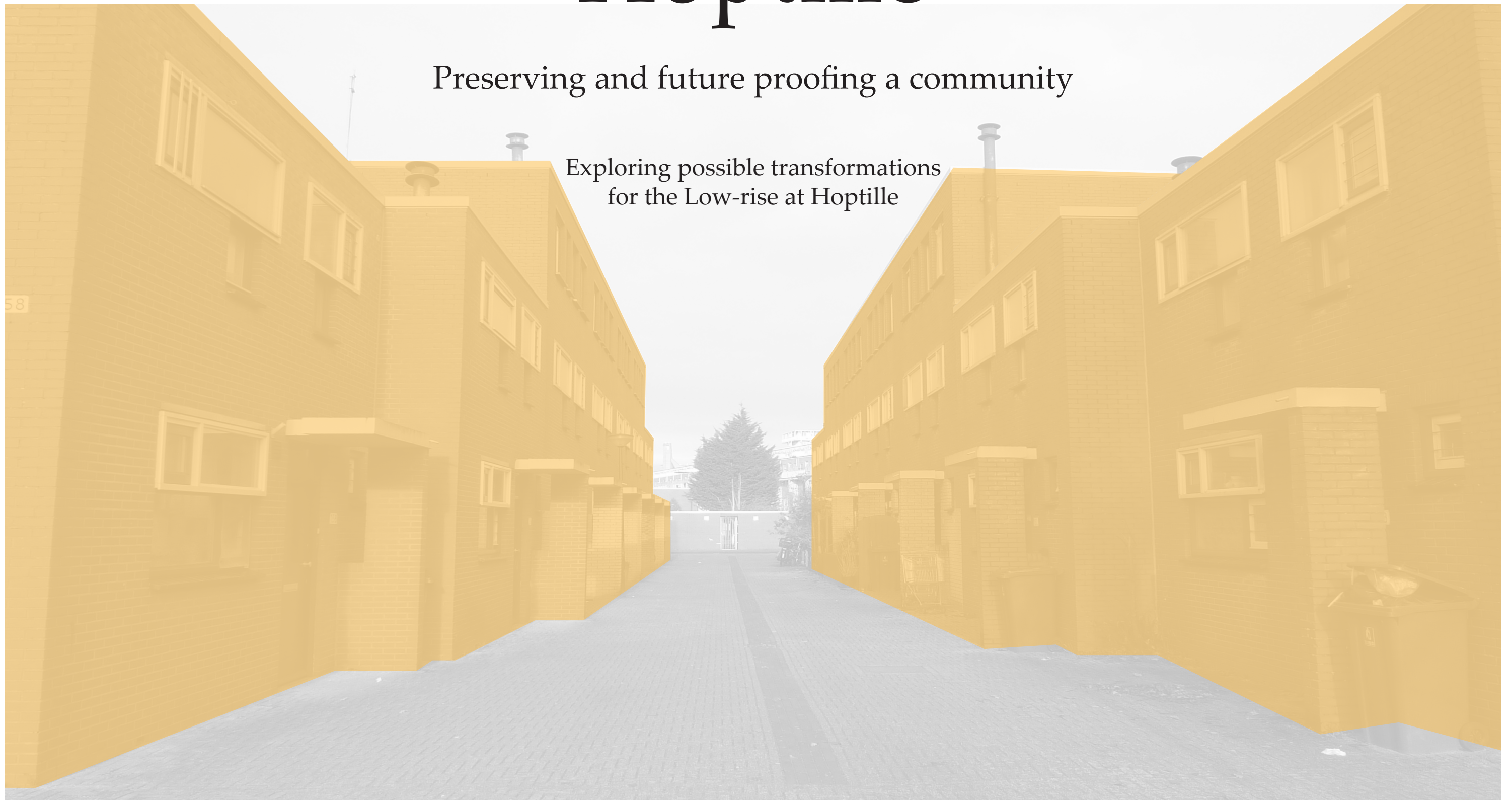


Hoptille

Preserving and future proofing a community

Exploring possible transformations
for the Low-rise at Hoptille



Sophia Vrisekoop
4032942

P5 Presentation
Graduation studio - New Heritage
Heritage and Architecture
TU Delft

Tutors:
dr. N. J. Clarke
ir. G. Warries
ir. L.G.K. Spoormans

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Research

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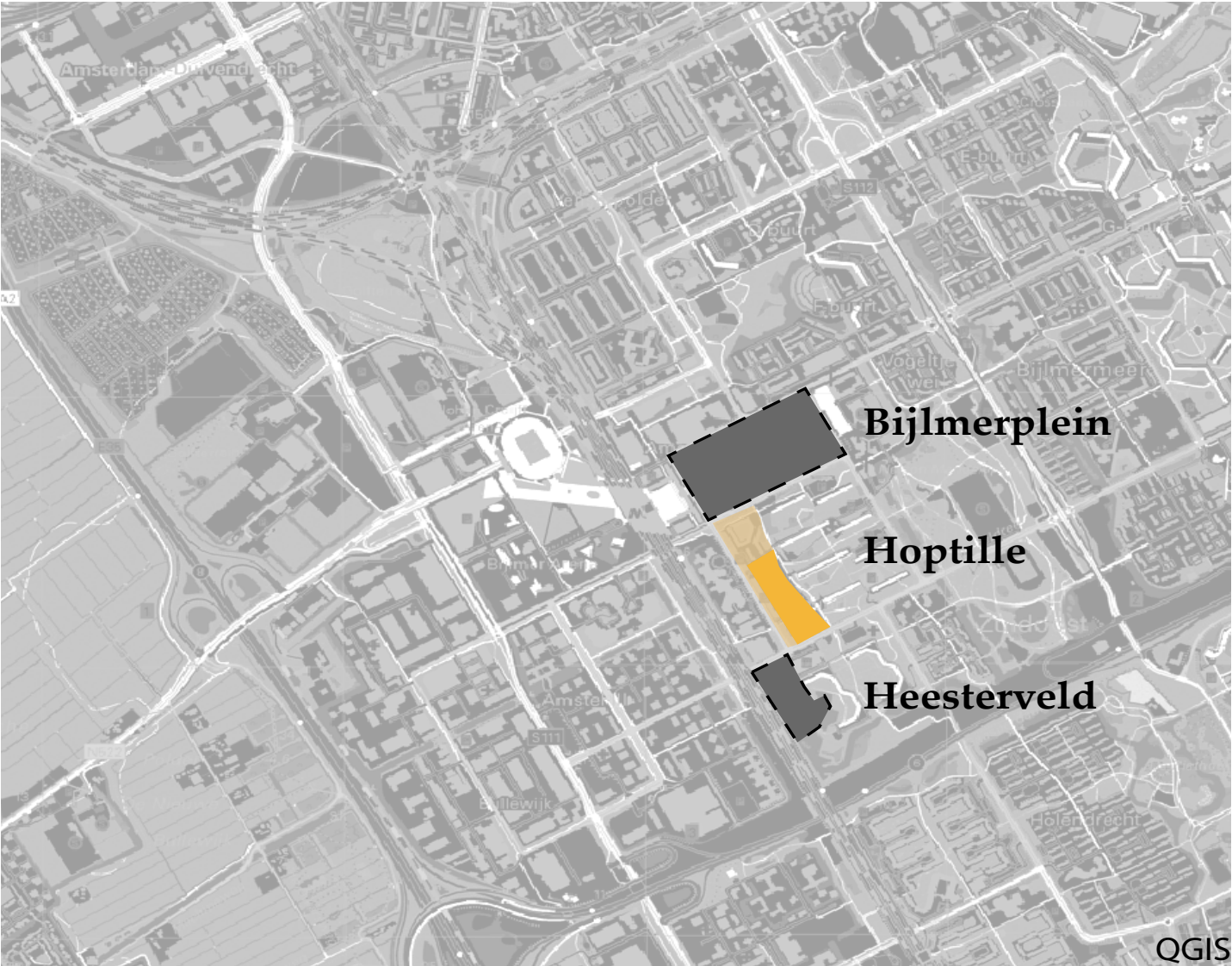
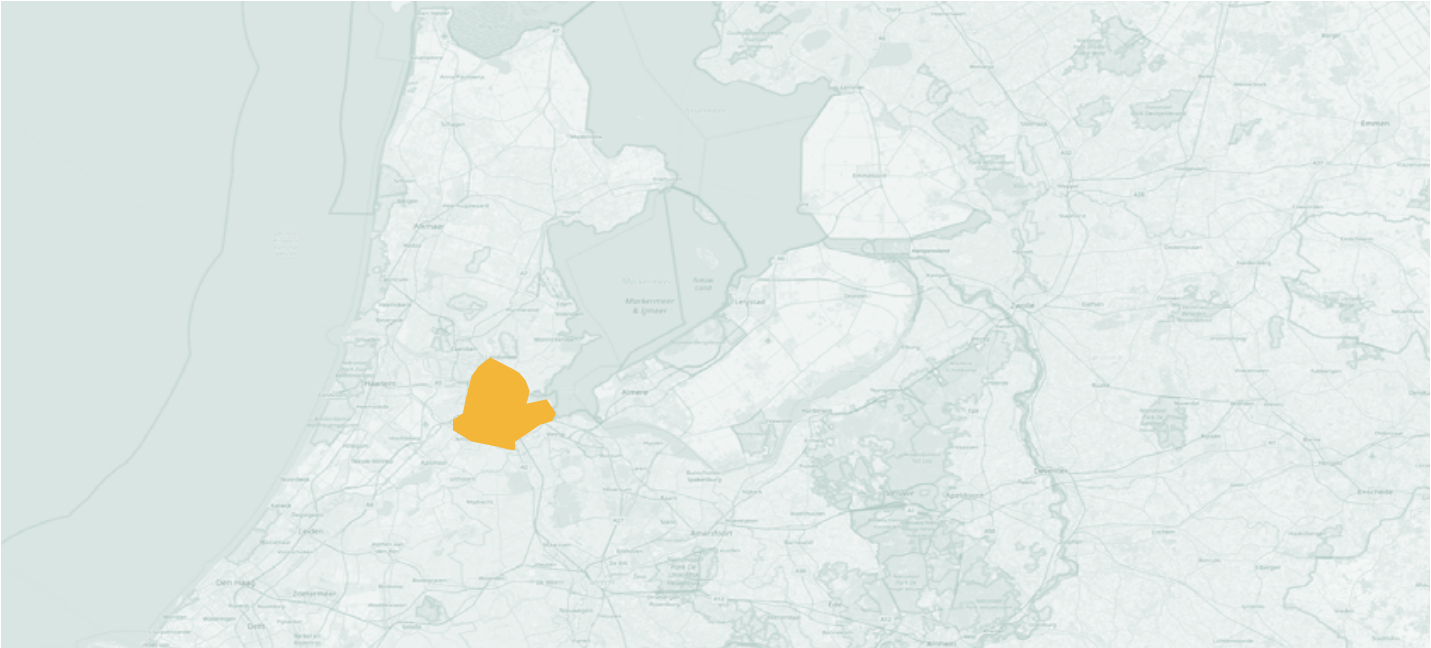
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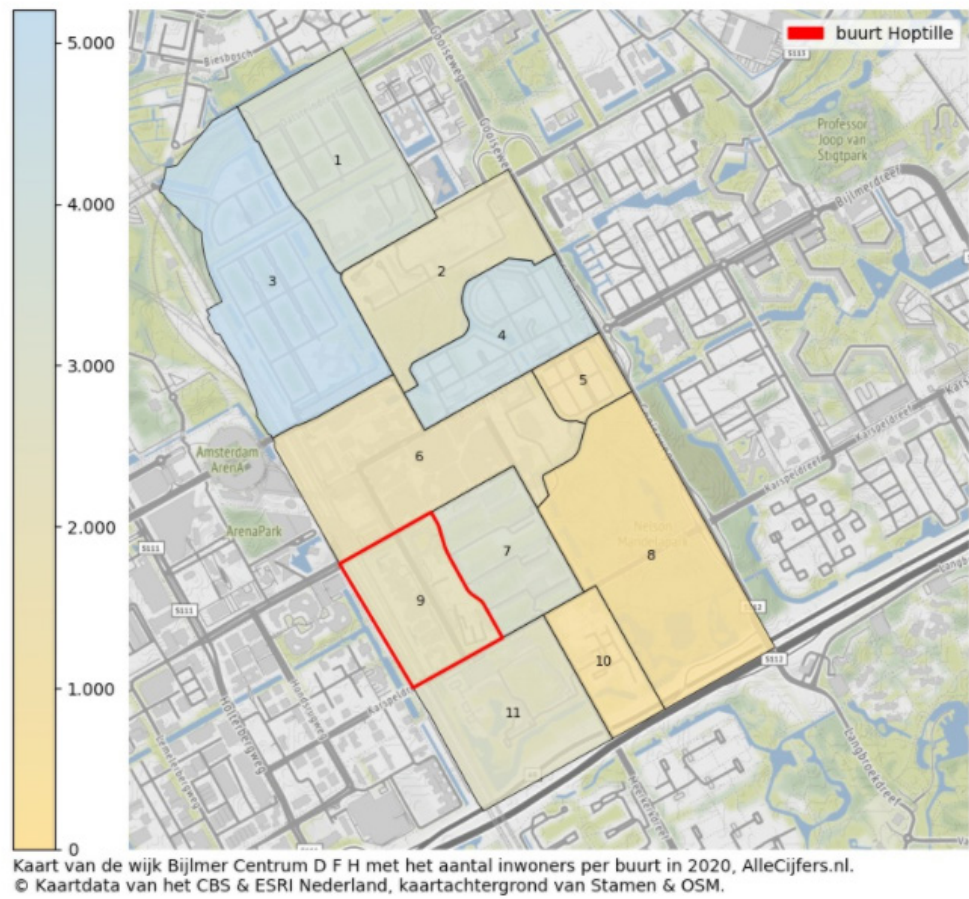
Reflection

Location



Residents

Aantal inwoners op de kaart van de buurt Hoptille



Bevolking	Waarde	Eenheid	Jaar
Aantal inwoners	1.925	aantal	2020
Mannen	930	aantal	2020
Vrouwen	995	aantal	2020
0 tot 15 jaar	270	aantal	2020
15 tot 25 jaar	645	aantal	2020
25 tot 45 jaar	630	aantal	2020
45 tot 65 jaar	325	aantal	2020
65 jaar of ouder	65	aantal	2020



Reaction to highrise



Before and After



Construction	1979
Architect	Kees Rijnboutt
Commissioning party	Gemeentelijk woonbedrijf Amsterdam
Current owner	Ymere housing compagny
Units low-rise	103
Average unitsize	68 m2 gfa
Units mid-rise	230
Parkinggarage	2
Renovations low-rise	Maintenance



News items

VERPAUPERD ANTWOORD OP HOPTILLE

Anti-Bijlmer Hoptille een mislukte zelfbaarheid laag, woonlasten hoog, onveiligheid groot, leegstaande huizen

Hoptille werd verzamelpaats van problemen

Man gedood bij Hoptille

BIJLMERMEER – Bij Hoptille is vrijdagochtend om zeven uur een man door de politie doodgeschoten. De man had zich daarvoor van lijfelijk geweld jegens drie agenten bediend.

Met een ijzerenstaaf van tweeënhalve meter lengte verwondde hij een politiemann zodanig, dat deze naar het ziekenhuis vervoerd moest worden. Dezelfde agent leed schiet ook het fatale slachtoffer. Het onderzoek richt is nog

Het is zeker niet leuk om in Hoptille te wonen. Het was er altijd smerig en dat is er volop aanwezig. De schoonmaakdienst die daar dient schoon te maken functioneert niet. En daar betalen de mensen dan servicekosten voor. Er is ook een enorme leegstand. In "De Muur" staat 3/4 leeg. De ruimten voor woongemeenschappen zijn niet volledig bewoond, de bejaardenwoningen op de begane grond staan praktisch allemaal leeg. De bejaarden die er woonden zijn bijna allemaal gevlucht. Ze investeerden in een leuk tuintje wat al gauw vernield werd. Geluidsoverlast van de burens en burens boven hen die hun huisvuil gewoon naar beneden gooiden.

Hier heb ik zelf in "De Muur" gewoond. Het was er altijd smerig en dat is er volop aanwezig. De schoonmaakdienst die daar dient schoon te maken functioneert niet. En daar betalen de mensen dan servicekosten voor. Er is ook een enorme leegstand. In "De Muur" staat 3/4 leeg. De ruimten voor woongemeenschappen zijn niet volledig bewoond, de bejaardenwoningen op de begane grond staan praktisch allemaal leeg. De bejaarden die er woonden zijn bijna allemaal gevlucht. Ze investeerden in een leuk tuintje wat al gauw vernield werd. Geluidsoverlast van de burens en burens boven hen die hun huisvuil gewoon naar beneden gooiden.

Politie Bijlmer: 'Constructie oorzaak veel moeilijke

Politie schiet man in Bijlmer dood

Bijlmerflatgebouw in 3 jaar volledig uitgeruild

'In de flat is het vies en gevaarlijk'

"De flat is onleefbaar", zegt mevrouw Alweicher, die sinds november '81 in de laagbouw van Hoptille woont. "Vies, smerig en men worden geregeld bedreigd. De leegstand is wanhopig. De lig opengesloopt. Maar schrijft niet te negatief, we proberen hier echt een leefbaar klimaat te creëren".

Het probleem op Hoptille is volgens haar, even afgezien van de hoogte van de burens, de lange gang die het hoge woonblok doormaakt. "Iedereen kan er zo en niet woont. Er is geen controle plan van de beheerder, dat r via de bewonerscommissie, r juist

AMSTERDAM

29-jarige verdachte aangehouden voor dodelijke schietpartij Amsterdam

7 mei 2019, 16.32 uur • Aangepast 7 mei 2019, 16.55 uur

Arm ben je in deze stad niet alleen als je in de bijstand zit

In het armste stukje stad behoort 52 procent huishoudens tot de minima. Krijgen ze het ook Bijlmer beter nu het de stad economisch voor gaat?

Lorianne van Gelder en Bart van Zoelen 22 december 2018, 13:00

ervaren tuincoach gezocht

WORD OOK EEN BLOEI & GROEI TUINCOACH!

Mogelijk schot gelost bij vechtpartij in de Bijlmer

Bij de Hoptille in Zuidoost heeft dinsdagmiddag een vechtpartij plaatsgevonden. Mogelijk is er een schot gelost.

Het Parool 8 september 2020, 18:22

hoptillestories • Volgen

LAB 193

HOPTILLE BIJLMERMEER



▲ Robert (37) voelt zich machteloos. © Jan de Groen

Vijftien jaar ingeschreven voor sociale huurwoning, maar Robert (37) maakt steeds geen kans

Vijftien jaar ingeschreven staan voor een sociale huurwoning en dan nóg aangewezen zijn op de antikraakmarkt.

Wonen is een recht, blijf het vooral zo noemen

Woonprotest De wooncrisis is een schending van mensenrechten, aldus *Rosa Beets* en *Jan de Vries*. De staat moet zich inspannen voor behoorlijke huisvesting.



Het eerste landelijke woonprotest in Amsterdam op 12 september 2021.
Foto Camiel Mudde



Corporaties nemen recordaantallen nieuwe huizen in aanbouw, maar door verkoop, liberalisatie en sloop van sociale huurwoningen daalde het aantal betaalbare huurwoningen toch – tegen alle afspraken in.

Ruben Koops 2 augustus 2021, 10:47

De **belofte van het stadsbestuur** om de voorraad goedkope, sociale corporatiewoningen vanaf 2020 met 750 woningen per jaar te laten groeien wordt bij lange na niet gehaald. Integendeel, vorig jaar telde Amsterdam zelfs 10 goedkope corporatiewoningen minder dan in het jaar daarvoor. Dat staat in het jaarbericht van de AFWC, de koepel van Amsterdamse wonincorporaties.

Het is vast geen verrassing dat je in veel gevallen lang moet wachten op een sociale huurwoning. Na je inschrijving sluit je achteraan de rij met honderden, misschien wel duizenden andere woningzoekenden. Even wachten, nog even wachten...

Hoelang moet je eigenlijk wachten in Amsterdam? De **NOS** zocht dat uit en publiceerde afgelopen weekend de resultaten. Op basis van gegevens van woningcorporaties onderzocht de omroep de wachttijden voor sociale huurwoningen in verschillende gemeenten.

De wachttijd in Amsterdam

In Amsterdam sta je gemiddeld dertien jaar en één maand ingeschreven voor een sociale huurwoning. Dit is de tijd vanaf het moment dat je je inschrijft tot het moment dat je een huis hebt gevonden. De tijd waarin je actief aan het zoeken bent is korter.

Het grondrecht om te wonen in een geëxplodeerde woningmarkt

8 oktober 2021 DOOR MONIKA GOGNA



Voor het eerst sinds de jaren tachtig staan Nederlanders op tegen het woonbeleid. Vorige maand was het voor het eerst in decennia weer zover, met het woonprotest in Amsterdam. Op 17 oktober wordt er in Rotterdam een woonopstand gehouden. Over hoe wonen een grondrecht is.

Foto: Hollandse Hoogte / Joris van Gennip

Wonen is een grondrecht

Volgens **artikel 22 van de Nederlandse Grondwet** is 'bevordering van voldoende woongelegenheden voorwerp [...] van zorg der overheid'. Voldoende woongelegenheden is een grondrecht dat verder uitgewerkt wordt in de **Woningwet** en de **Huisvestingswet**. Dan is het bizar dat Nederland in 2021; 279.000 woningen tekortkomt. De komende tien jaar zal dit alleen maar oplopen en moeten er 900.000 woningen bij komen. Ondertussen vallen door lange wachtlijsten, woningtekort, gentrificatie, onbetaalbare huren en verdubbeling van het aantal daklozen steeds meer mensen tussen wal en schip. En dus deed op 12 september een groot aantal huurders mee aan het Amsterdamse woonprotest.

Het Parool Bewoners willen niet dat Bickerseiland wordt als de grachtengordel, 'alleen voor rijken'

Op het Bickerseiland in Amsterdam-Centrum is zaterdagmiddag gedemonstreerd tegen de verkoop van sociale huurwoningen. 'Ik neem die expats persoonlijk niets kwalijk, maar de sociale cohesie in de buurt gaat eraan.'

Peter van Brummelen 2 oktober 2021, 20:46



<https://www.advocatie.nl/huurrecht/het-grondrecht-om-te-wonen-in-een-geexplodeerde-woningmarkt/>
<https://www.nrc.nl/nieuws/2021/10/14/wonen-is-een-recht-blijf-het-vooral-zo-noemen-a4061854>
<https://www.parool.nl/amsterdam/bewoners-willen-niet-dat-bickerseiland-wordt-als-de-grachtengordel-alleen-voor-rijken-b3ea28ca/>
<https://www.amsterdam.nl/wonen-leefomgeving/langer-zelfstandig-wonen/geschikte-woning-zoeken/>
<https://ww.ad.nl/wonen/vijftien-jaar-ingeschreven-voor-sociale-huurwoning-maar-robert-37-maakt-steeds-geen-kans-a0d55f4a/?referrer=https%3A%2F%2Fwww.google.com%2F>

Research Question

How can the residential area of Hoptille be **transformed** into sustainable **future proof** housing complexes, by strengthening the present social **community** and **preserving** its architectural values?



Content

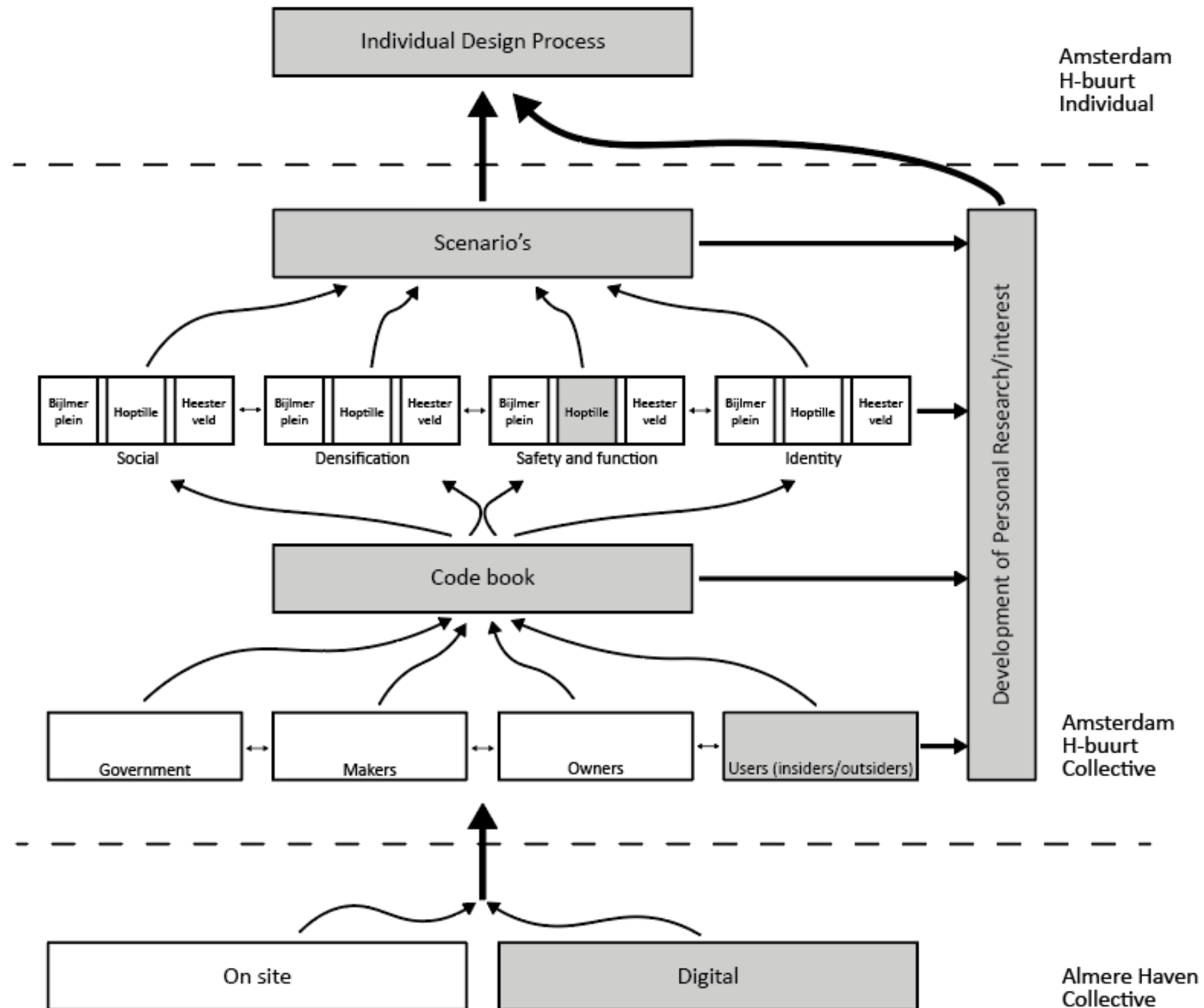
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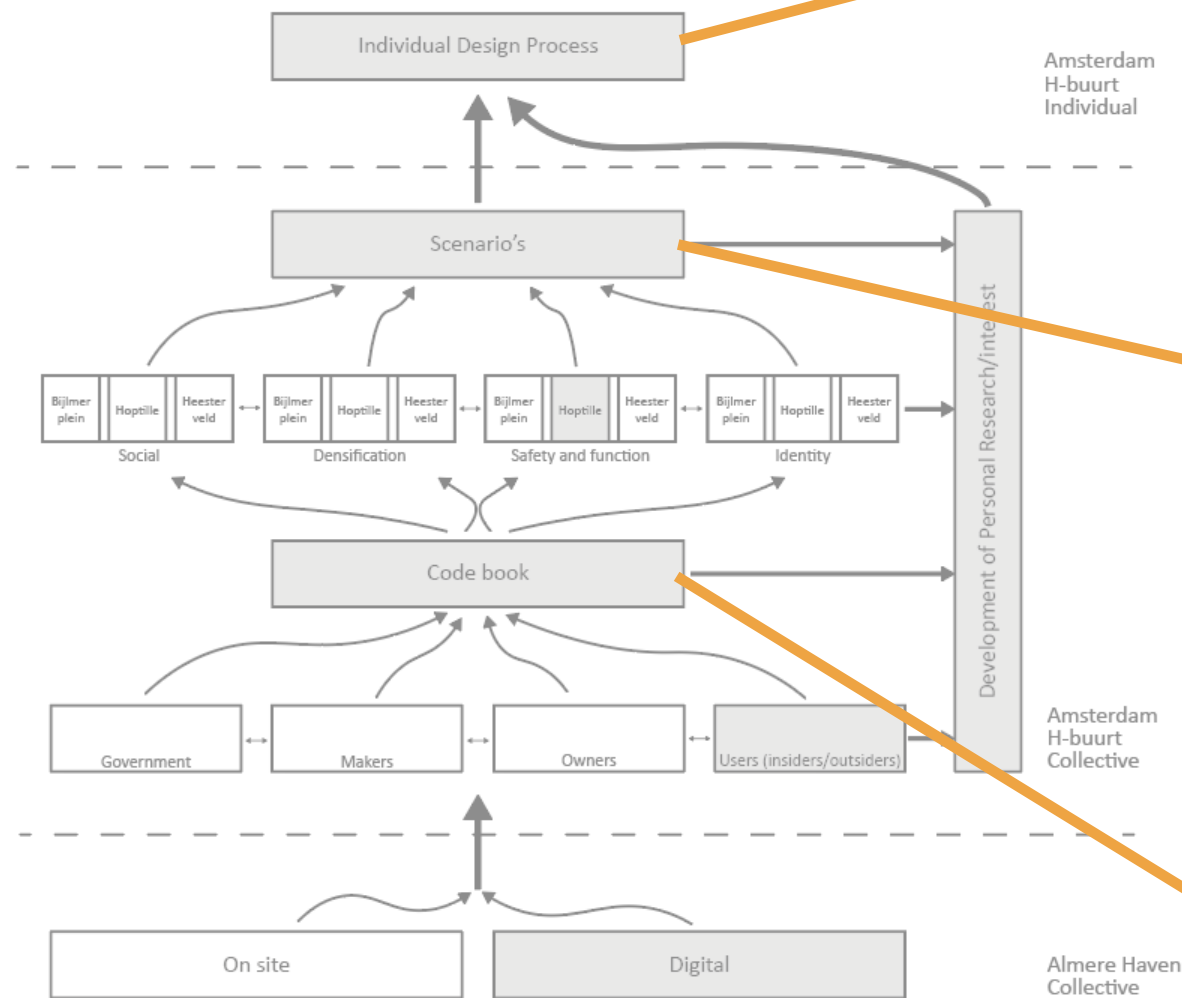
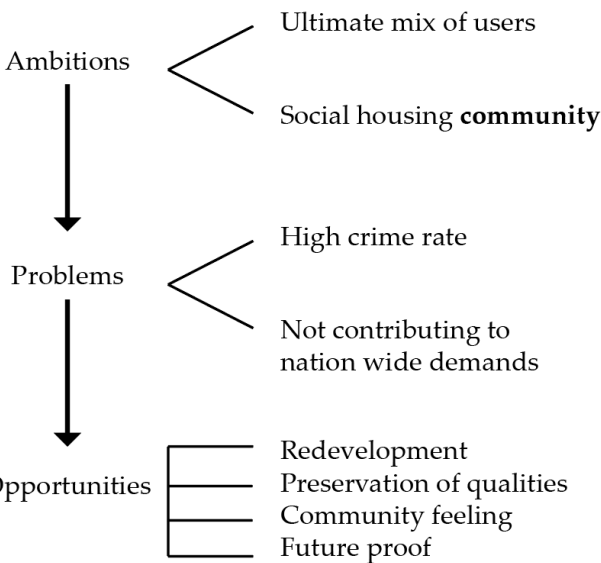
Design

Reflection

Research Scheme



Research Methods



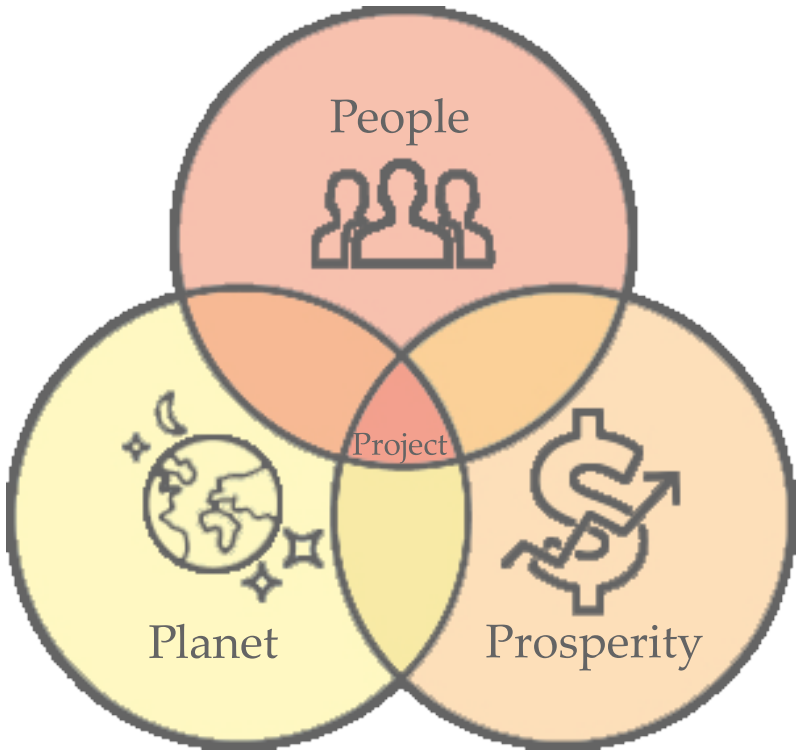
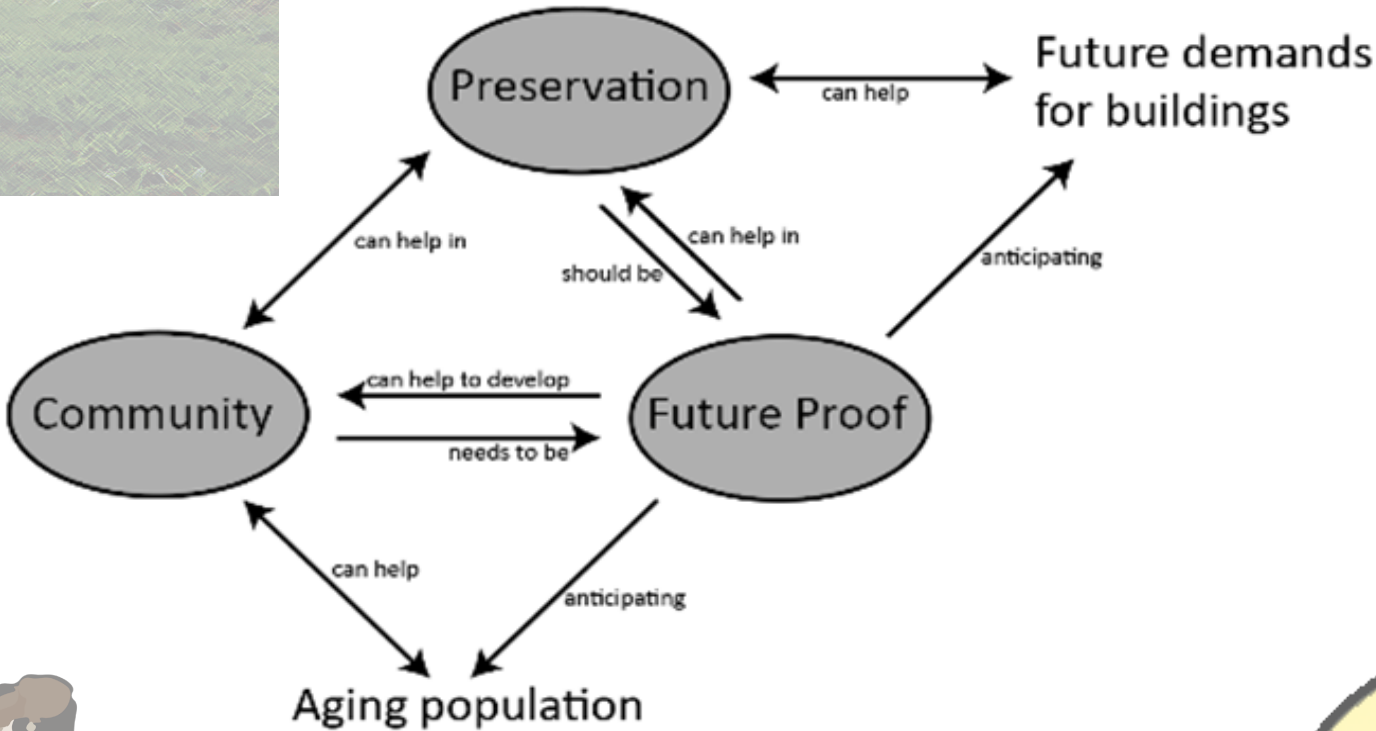
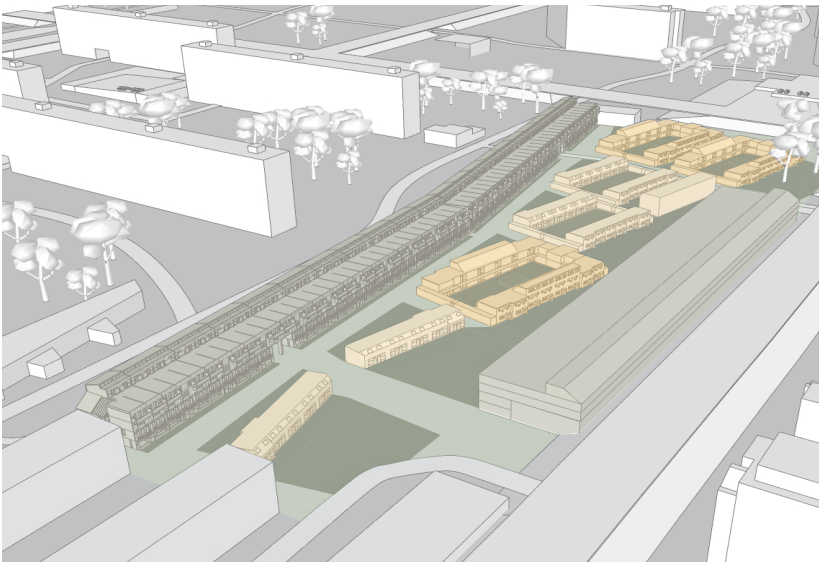
Hoptille



SPATIAL	AESTHETIC COHESION	INFRASTRUCTURE	NATURE	SOCIAL
1. Lack of overview 2. Inside space not busy (Hoptille back) 3. Outside space busy (Hoptille front) 4. Hooks and cracks, places to hide. 5. Entrances underneath the building	6. Buildingfront with staircases and entrances 7. Backside with green character and low-rise buildings	8. Separated routes for the public and residents	9. Some present, inside borders and designated areas 10. Mostly stone	11. Meeting spaces provide social surveillance 12. Quiet on the backside of residential blocks 13. Criminality during nighttime
1. Somewhat affected (extreme impact, very likely) 2. Lack of interaction (substantial impact, likely) 3. Lack of interaction (substantial impact, likely) 4. More overview possibilities (substantial impact, likely) 5. Crime (substantial impact, likely)	6. Demolish/rebuild (extreme impact, very likely) 7. Increase of character (severe impact, likely)	8. Existing separated routes will remain but scatter (substantial impact, likely)	9. Possibility of increasing the 'nature' (severe impact, likely) 10. Even more stone, when chosen in the redesign (severe impact, likely)	11. More people pass by, increase in overview of the public space, more eyes are on the street (severe impact, likely) 12. More activities will happen on the squares and on the route itself, this brings noise (substantial impact, not likely) 13. Eyes in the street and better social control (severe impact, likely)

- 1. 80's Architecture
- 2a. Diversity - in Public Space
- 2b. Diversity - Dwelling scale
- 2c. Diversity - In function
- 2d. Diversity - Cultural
- 3. Elevated level
- 4. Feeling of Safety
- 5. (In)formal economy
- 6a. Greenery - Lack of quality
- 6b. Greenery - Abundance of
- 7. Low - mid - high-rise
- 8a. Maintenance - Building
- 8b. Maintenance - Urban
- 9. Mistrust
- 10. Nuisance of garbage
- 11. Sense of ownership
- 12. (Street)art
- 13. Three distinctive identities
- 14. Unintended use of public space

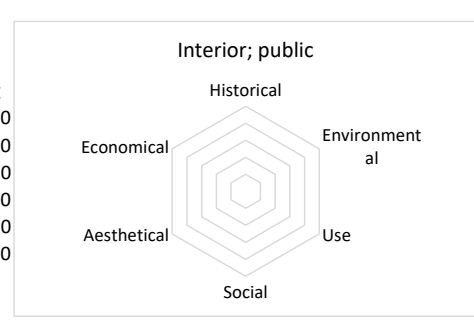
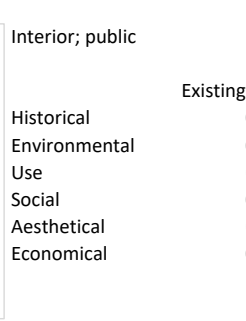
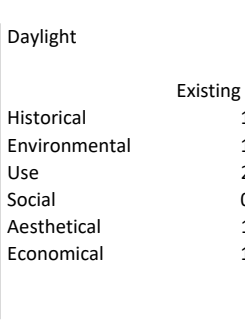
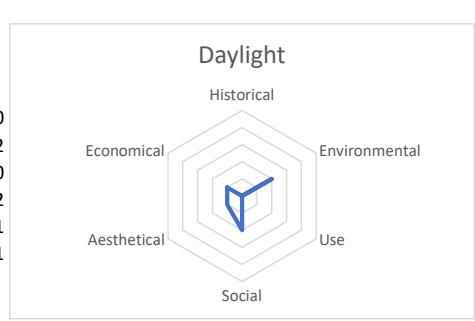
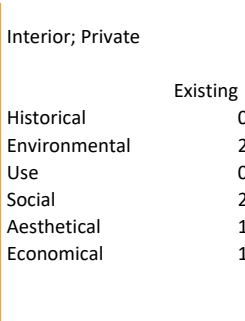
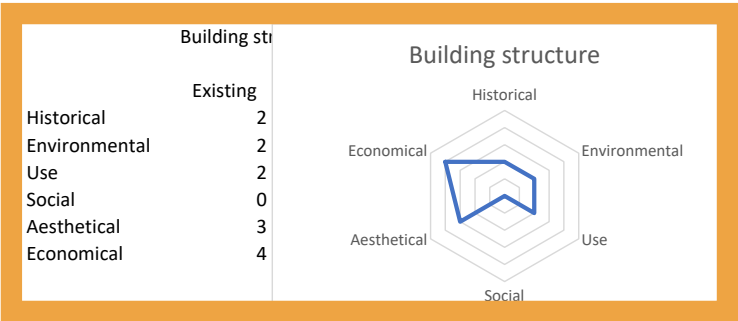
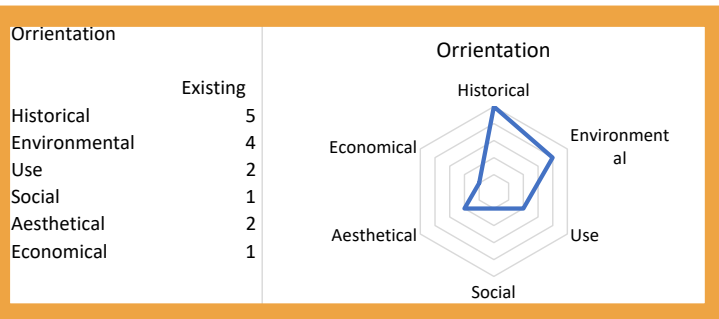
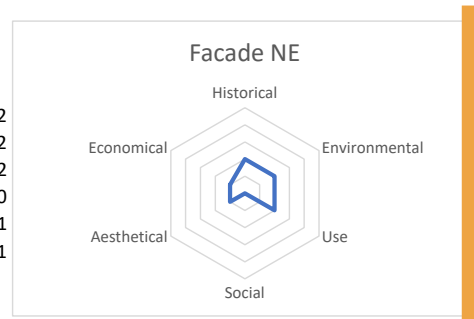
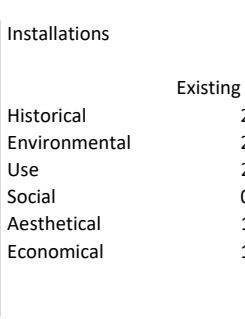
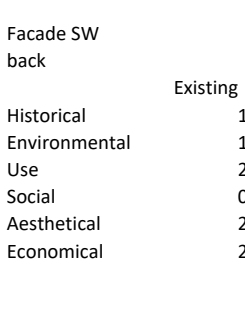
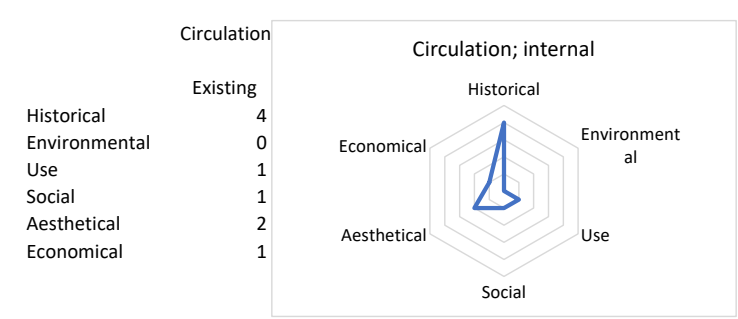
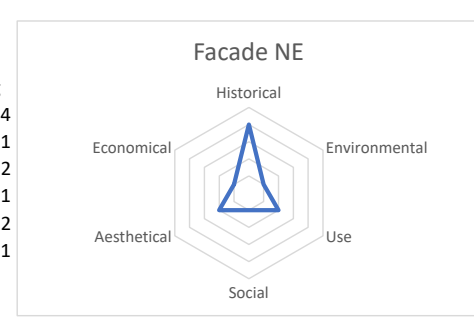
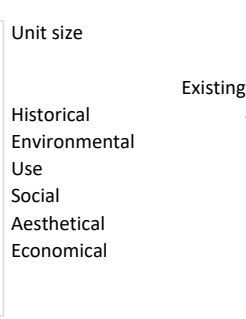
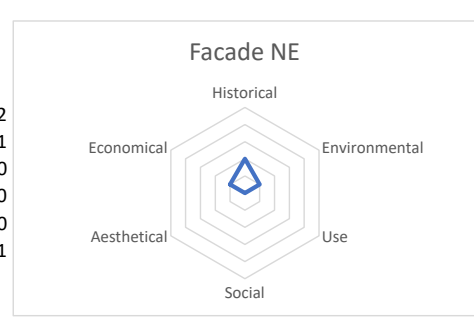
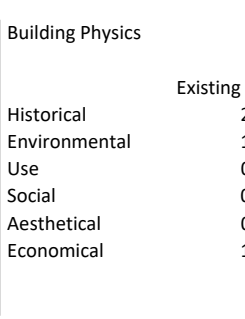
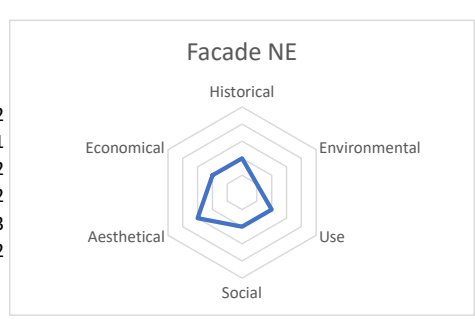
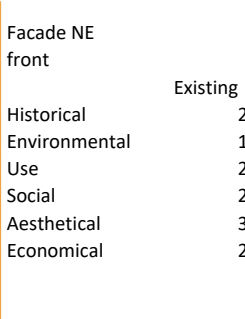
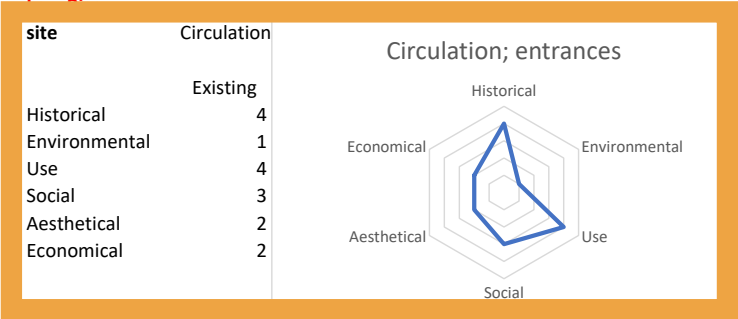
Approach



Spider Diagram

Existing situation

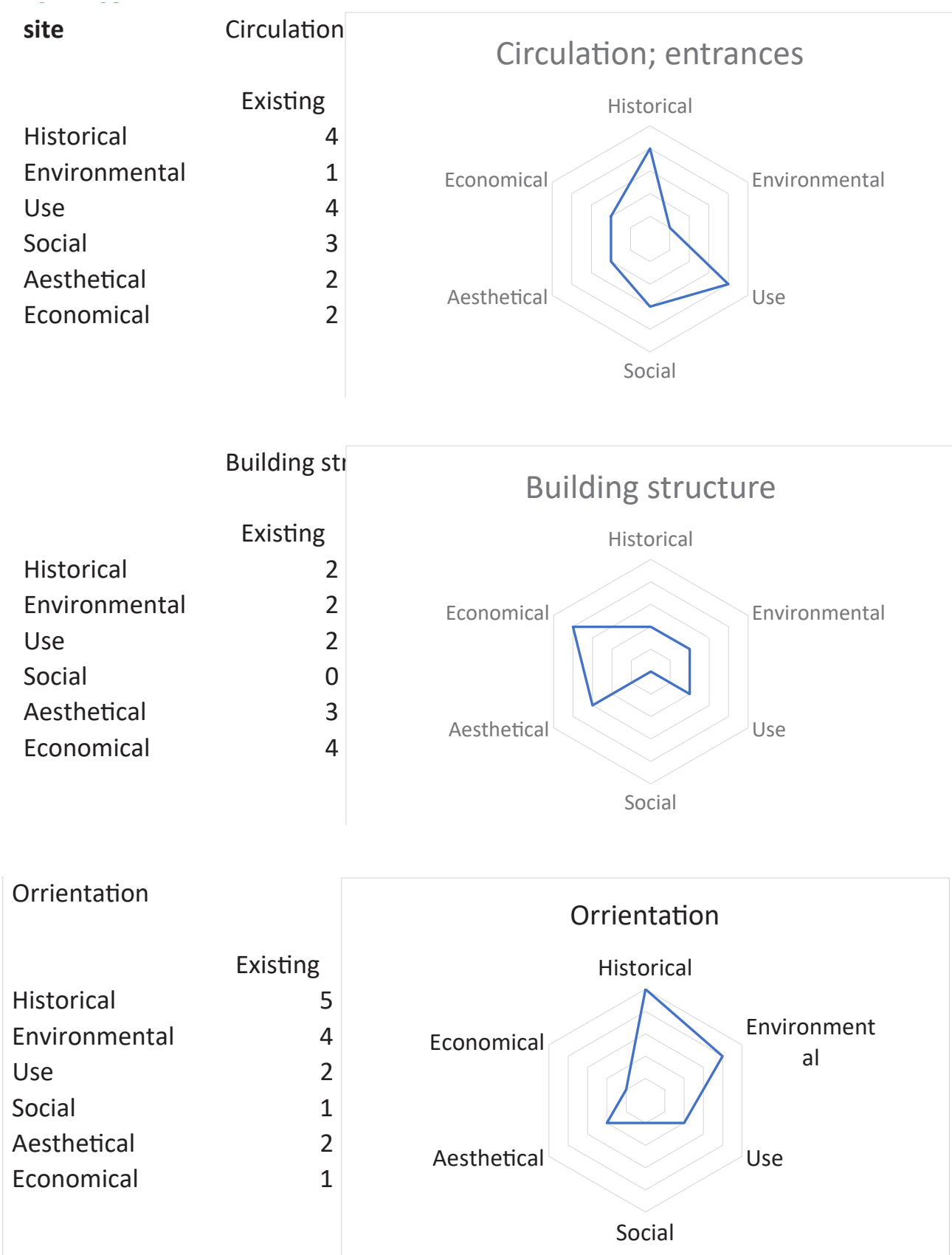
Preservation



Spider Diagram

Existing situation

Preservation



Spatial transition

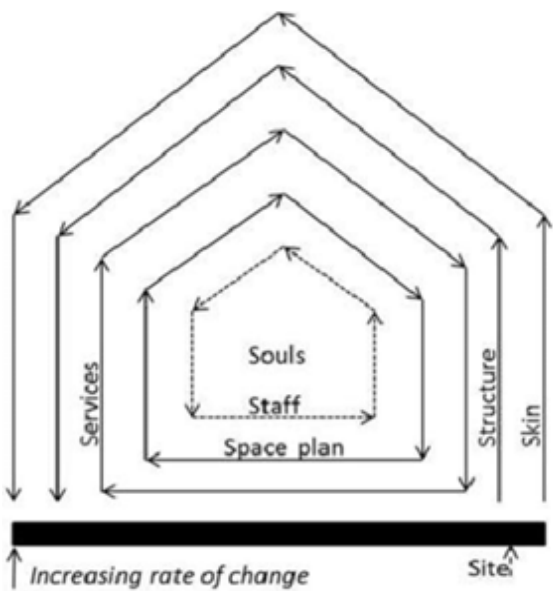


Existing grid structure






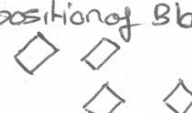
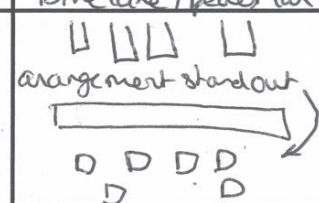





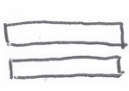




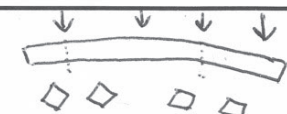

Orrientation E/W

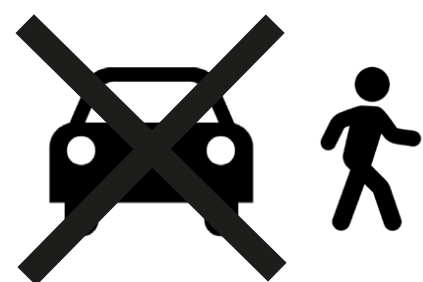
What are the current architectural values and qualities of the Hoptille buildings and how can they be strengthened?



Shearing layers	Description	Typical lifespan/activity
Site	Location and context	Permanent
Structure	Bones	30-300 years
Skin	Envelope	20+ years
Services	Lifeblood	7-20 years
Space plan	Interior layout	3 years
Stuff	Furniture and equipment	Under 3 years
Souls	People	Daily

BRAND +	RIEGL +	AGE value	HISTORICAL value	INTENTIONAL COMMEMORATIVE value	NON INTENDED COMMEMORATIVE value	USE value	NEW-NESS value	(relative) ART value	RARITY value [+]	OTHER relevant values [+]
SURROUNDINGS / SETTING [+]										
SITE										
SKIN (exterior)										
STRUCTURE										
SPACE PLAN										
SURFACES (interior) [+]										
SERVICES										
STUFF										
SPIRIT of PLACE [+]										

Riegl Values / Brand Layers	Low rise building blocks Hoptille						
	Age Value	Historical Value	Art Value	Use Value	Newness Value	Rarity Value	Other Values
Surroundings	The surroundings 70's and 80's architecture / Bylner area	reaction to Highrise 	Bright colors in the surroundings (mid-rise / Heeshuvelde) Street shows Bike lane / pedestrian	 Public transport everything within walking distance	Upcoming Neighborhood	High amount of green within city expanding	 Spatial transition
Site		position of Blocks  typical 80's	 arrangement standpoint	 Car free Zone	open character Spacious setting	low Building density 	 Mix of users
Space plan	typical 80's architecture.		 Straight lines	 inwards looking outwards private house with private garden.		 existing (courtyard) setting	grid → unit size 6000 x 7730
Surfaces						Brick facades.	rough materials stone
Structure	sustainable materials re-use / re-develop possibilities			 Existing grid structure			 Adaptability
Services		lifespan nearly over! redevelop		Houses individually serviced → opportunity for the future!			gas Heating → future demands for 'greener' solutions
Skin		traditional House look stone 					Brick facades → re-usable
Stuff							community kitchen garden playground
Spirit of Place		image of Hoptille expectation vs reality		 Community Feeling		 'Hidden' behind mid-rise	 Social Interaction (social housing)



Car free Zone, Everything within walking distance



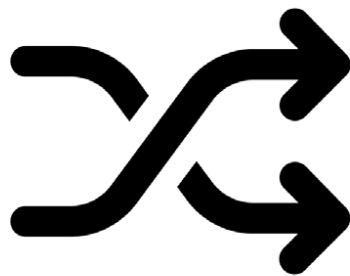
Public transport



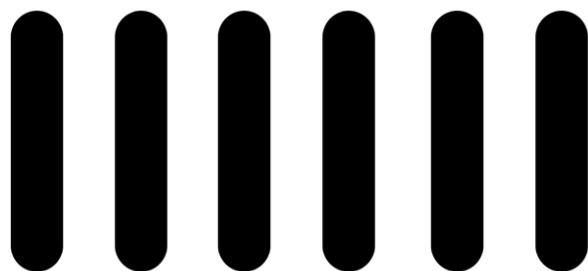
Spatial transition



Mix of users



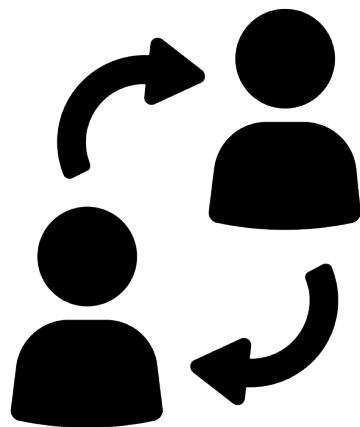
Adaptability



Existing grid structure



Community Feeling



Social Interaction
(social housing)

P

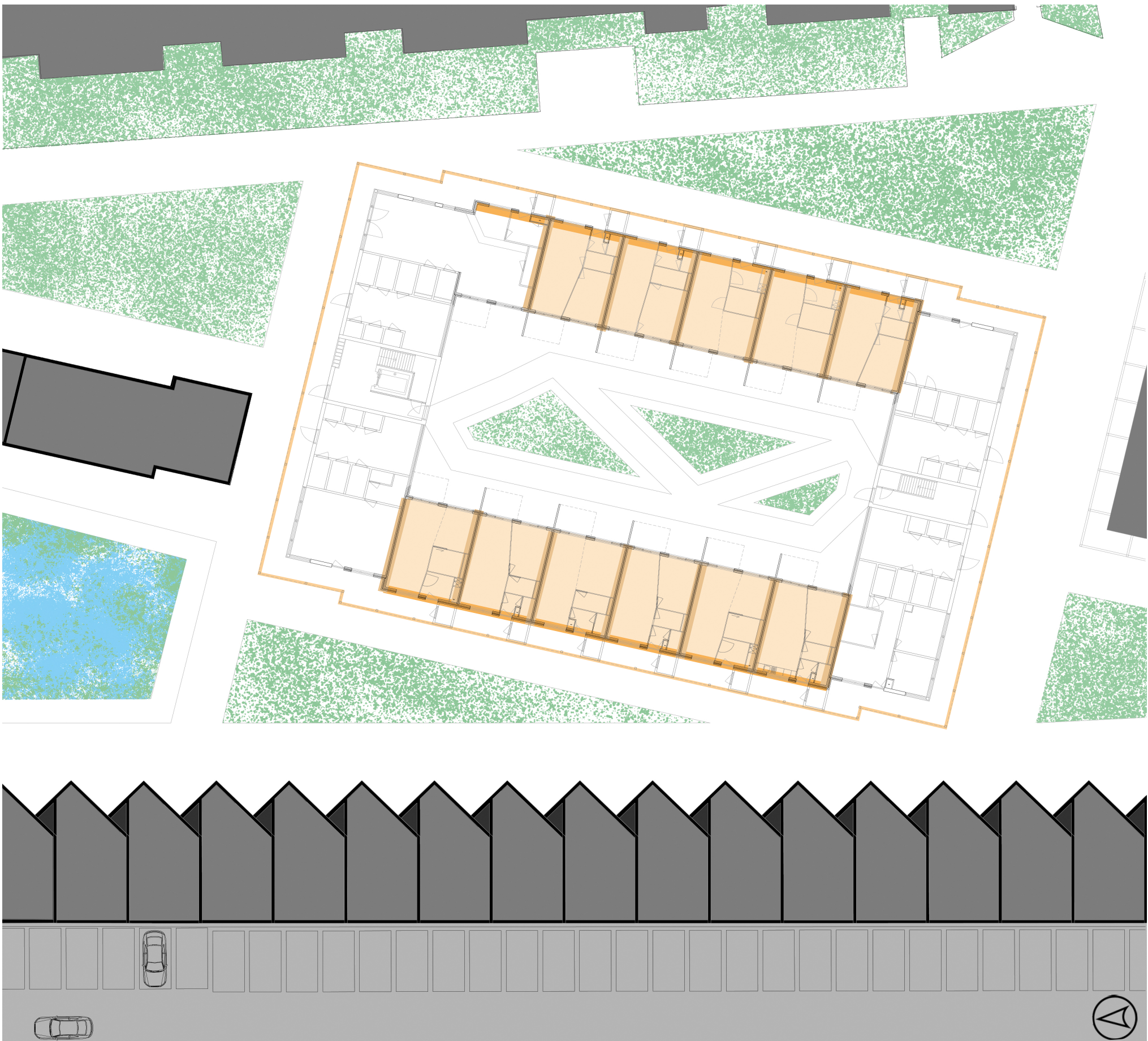
Preservation

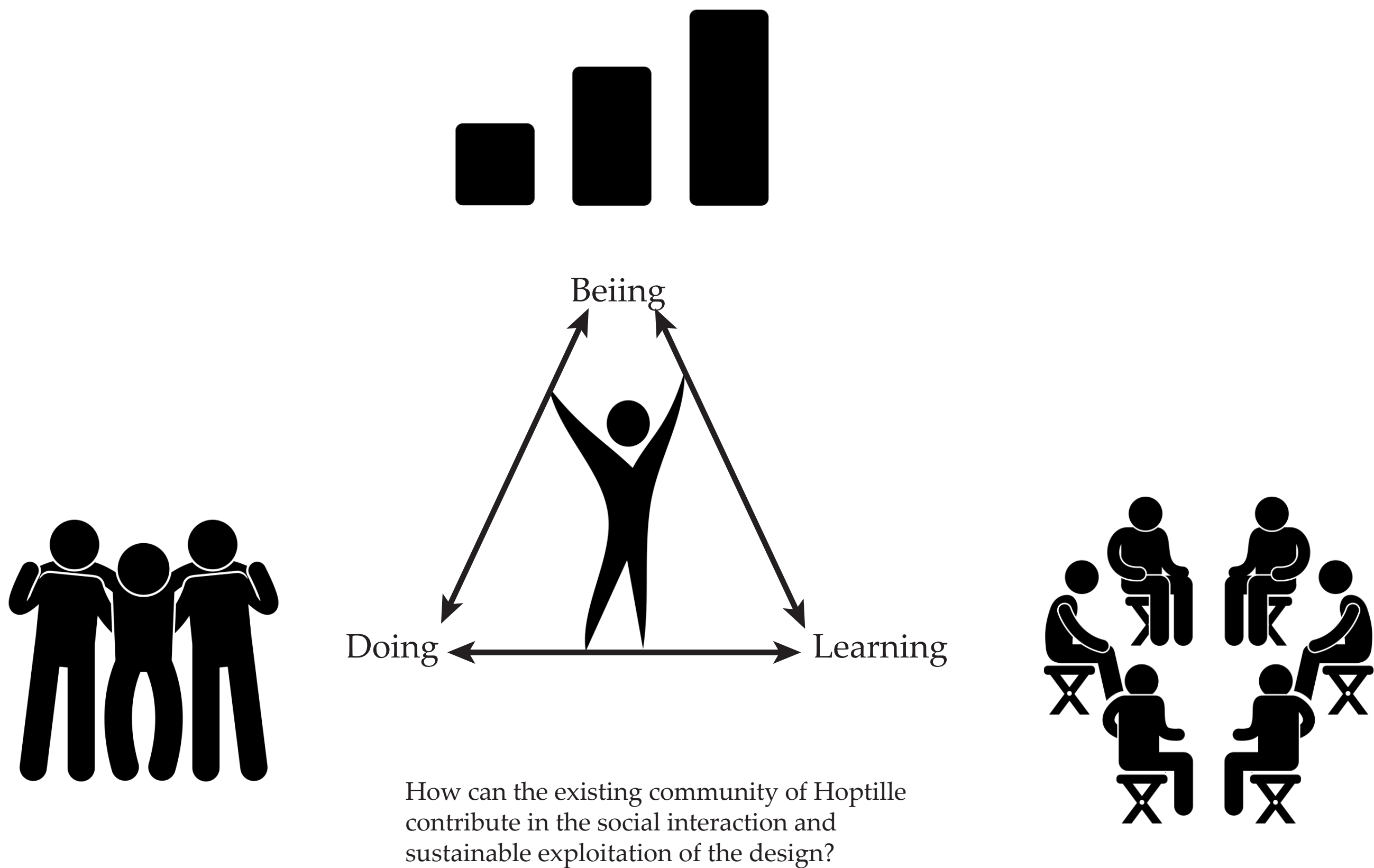
What are the current architectural values and qualities of the Hoptille buildings and how can they be strengthened?



Exsisting grid

Entrance through front door
(from the outside)







	AESTHETIC	USE	SOCIAL
Group findings	<p>Street art because of the lively colors User of the space (42)</p> <p>Lowrise seen as positive because of small scale and sheltered feeling Man (resident mid-rise, 27)</p> <p>Diversity in hights Anti-Bijlmer Frank Wassenberg (owner)</p>	<p>Location -near public transport -near shops</p> <p>Inside space isn't designed well enough. Thats why people don't use it now. Marnix van der dussen (government) 10-2020</p> <p>People like living there Social worker (non resident)</p>	<p>People stay in their house more there is not much to do, not a lot of interaction possibilities. Woman (resident lowrise, 60)</p> <p>Athmosphere of mixed cultures seen as positive Frank Wassenberg (owner) 21-10-2020</p>
Personal findings		<p>Be helpfull and keep going. Resident elderly home (101)</p> <p>Last 5 years, trend of moving elderly into suburbs of the city Online lecture Boomertowns (27-01-2021)</p> <p>People look for luxury and activity Guy Flintoff (Architect)</p>	<p>People don't feel connection to the area anymore, because of the high moving rate? Socialworker 01-2021</p> <p>Residential living keeps us connected Jeremy Myerson (Architect)</p> <p>Inclusive Design Use a design to keep people together</p> <p>Elderly at risk of losing purpose in live Robert Waldinger (Social researcher)</p> <p>Age in place (keep people in their community) Guy Flintoff (Architect)</p>



Values of Low-rise:
Small scale and sheltered feeling
Community feeling
Mixed cultures
Location

Challenges:
Interaction in outside space
Lack of connection
Unsafe feeling at night

C

Community

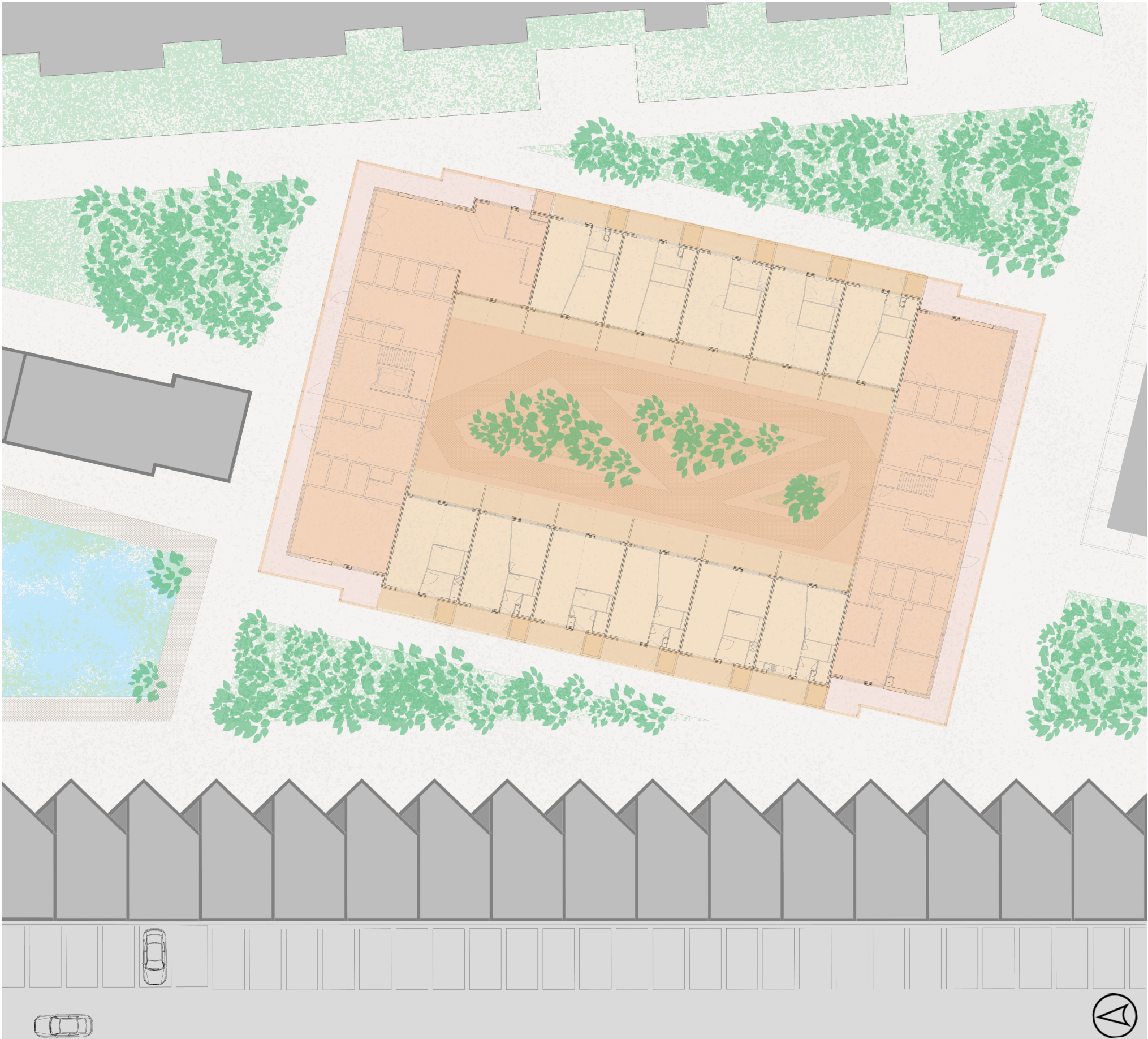
How can the existing community of Hoptille contribute in the social interaction and sustainable exploitation of the design?

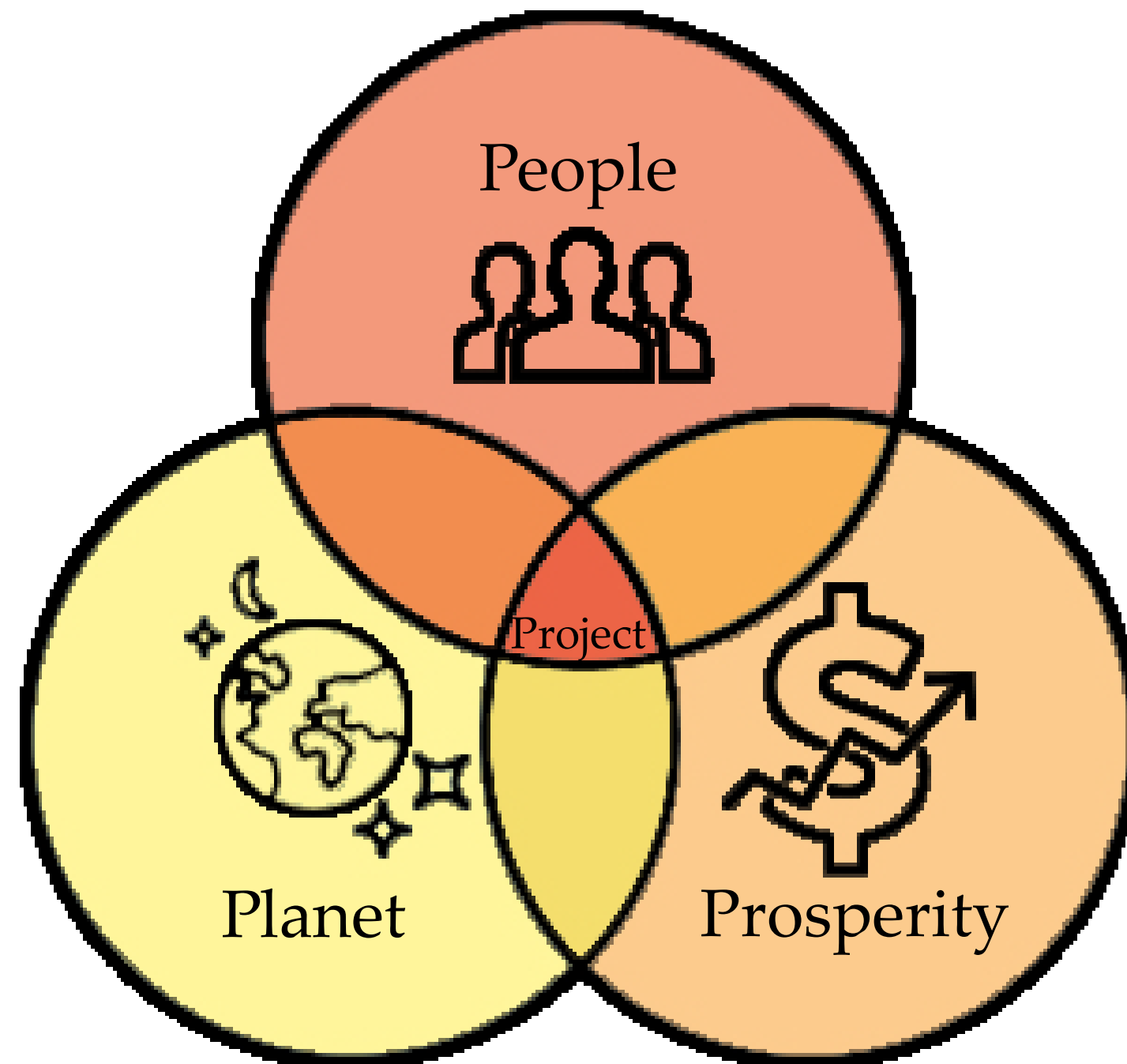


Interaction in outside space to improve the lack of connection

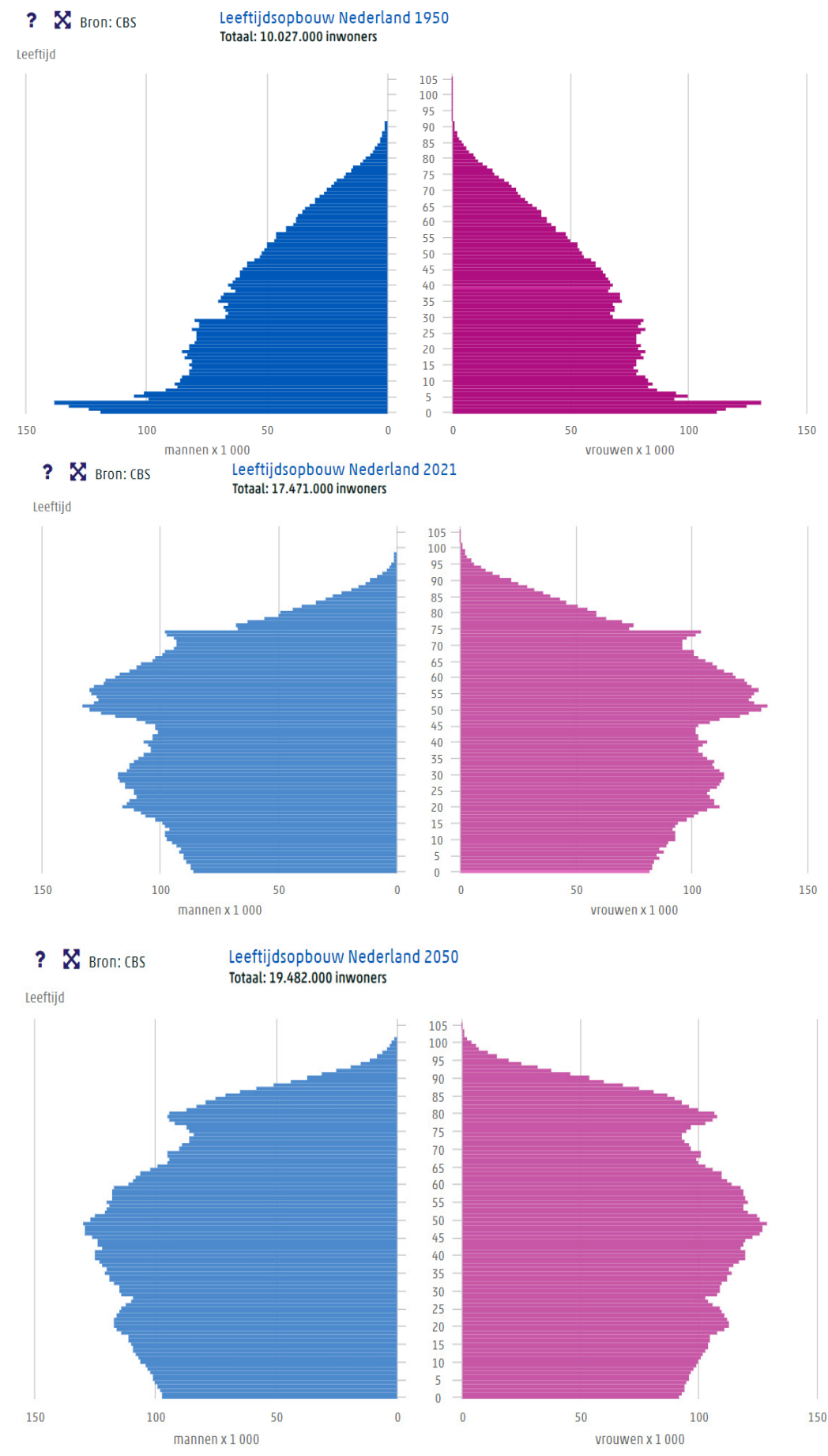
Enhance the feeling of safety (eyes on the street)

Private space, semi-private space and public space





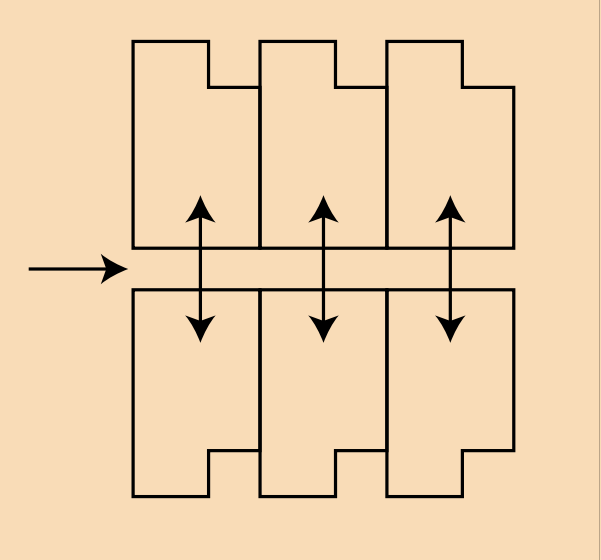
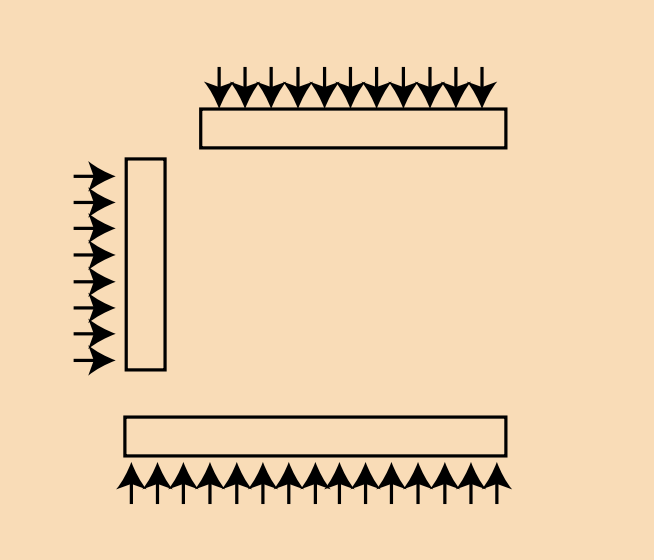
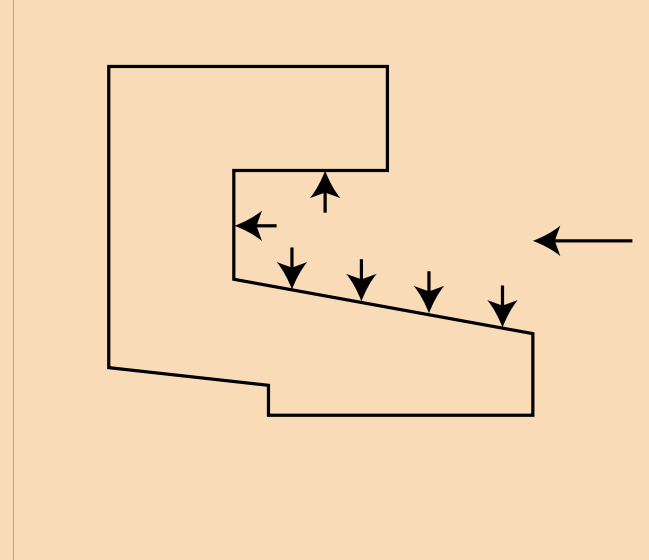
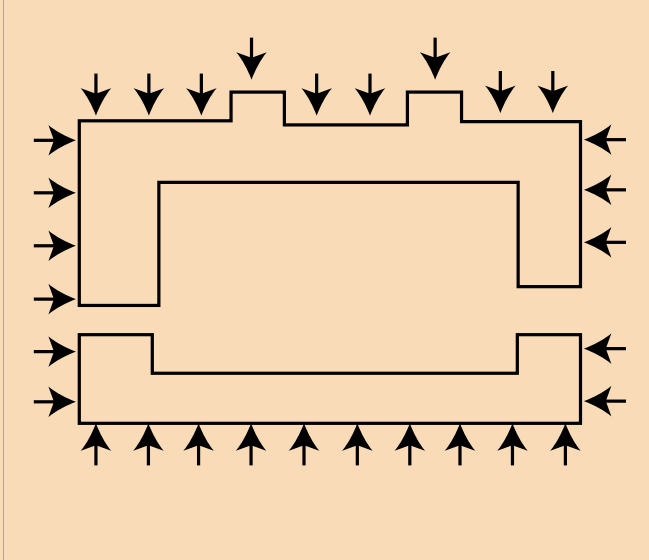




How can the redevelopment of Hoptille anticipate on the future housing demands of the aging population and the future net zero energy ambition?



Case studies Courtyards

		ZONNEHOF	DE 3 HOVEN	JOHAN ENSCHEDE HOF	KNARRENHOF ZWOLLE
Case studies					
					
		Dreumel (countryside)	Haarlem (sub-urb)	Haarlem (city center)	Zwolle (sub-urb)
		2018	2007 (transformation)	2008	2018
		Low-rise prefab containers 6 High-care units. (24h care) Own kitchen/bathroom/small outsidespace No need to leave house High demand, buy	3 layer buildings, mixed users 3 separate courtyards 40 senior units, 12 maisonnetts, 36 family houses, 8 co-housing units Private garden, Shared garden shared amenities, community support Green environment High demand	3 layer building behind facadewall 10 appartements for 50+ shared garden, community Amenities in walking distance High demand, social housing	Low-rise prefab containers 48 future proof units. Own kitchen/bathroom Shared garden/shared amenities Green environment Very high demand (500 people on waitinglist)







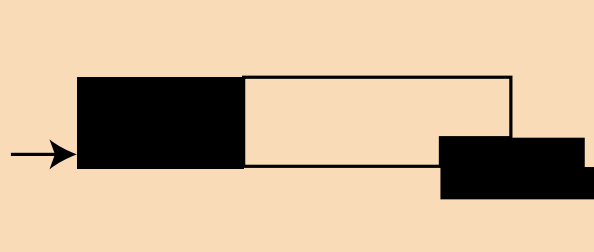
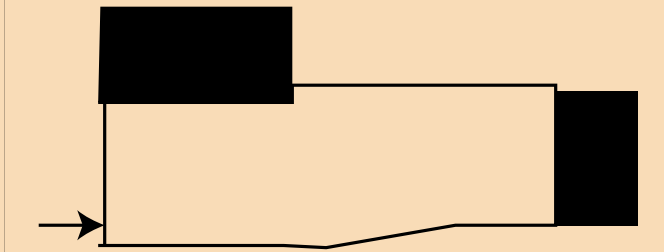

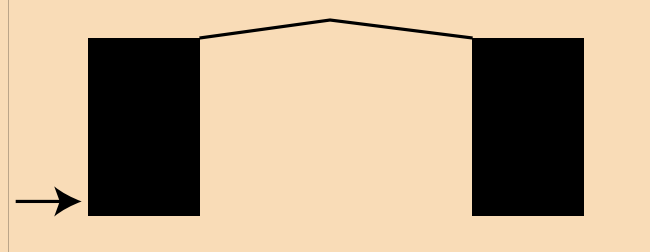
Phased transitions Hoptille area

Proposal for Low-rise building blocks

BENG (Almost Energy Zero Building) to Net-Zero energy

All materials added are removable, re-used or re-usable

Case studies Atriums

	DE OEVERS	HOTEL JAKARTA	VRIJBURCHT	PULSE
Case studies				
				
	Amsterdam	Amsterdam	Amsterdam	Saint-Denis (France)
	2020	2018	2002	2019
	High-care elderly housing	Hotel	Multifunctional building block residential units / work units	Office building and restaurant
	Atrium functions as 'outdoor' space for the residents and their visitors	Atrium functions as 'indoor garden' for the hotel guests and restaurant visitors to walk.	No atrium but outside garden for the residents	Atrium functions as entrance foyer and reseption space.
	Steel structure, glass	Wood and steel structure, use of natural materials and plants.	-	CLT structure
inside climate as a mid-climate	inside climate as a sub-tropical garden (about 25°C)	Outside	inside climate as a mid-climate	



F

Future Proof

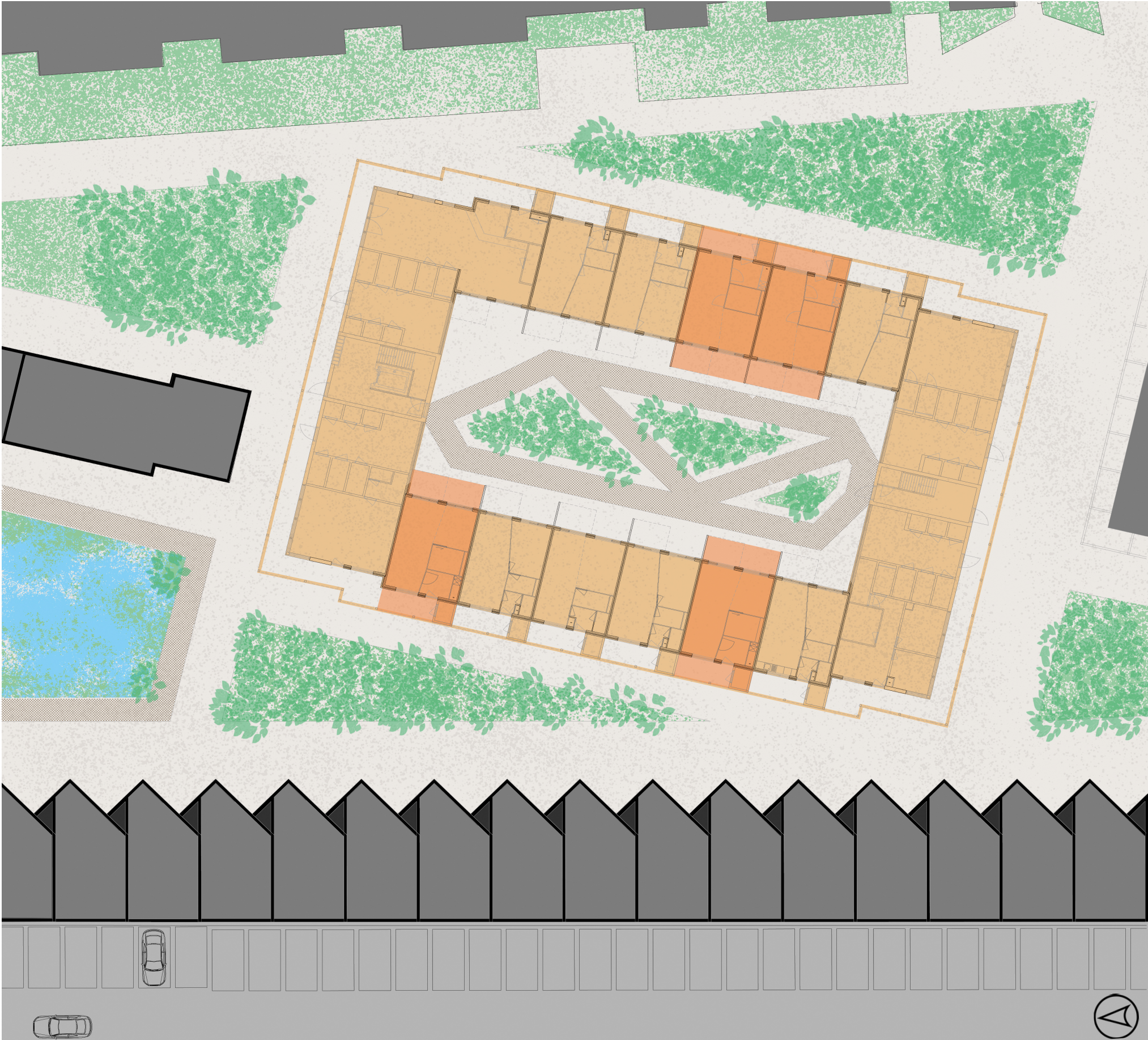
How can the redevelopment of Hoptille anticipate on the future housing demands of the aging population and the future net zero energy ambition?



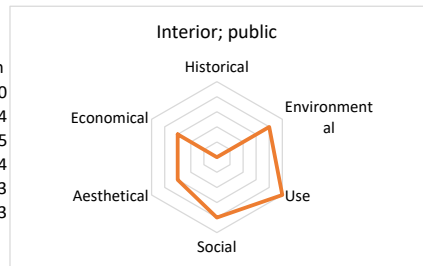
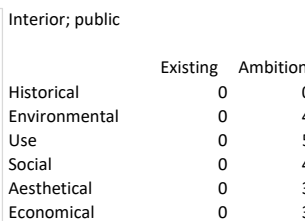
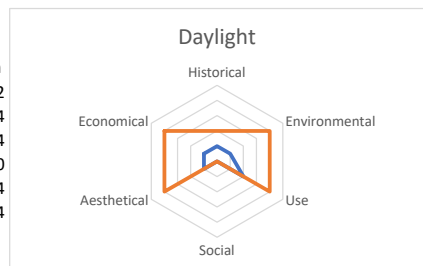
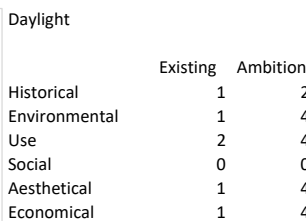
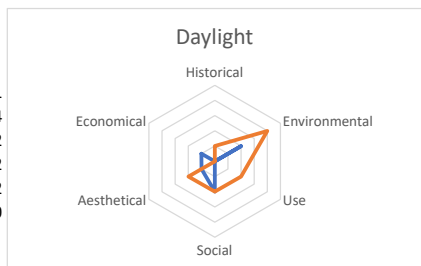
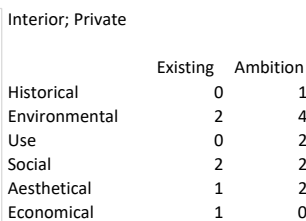
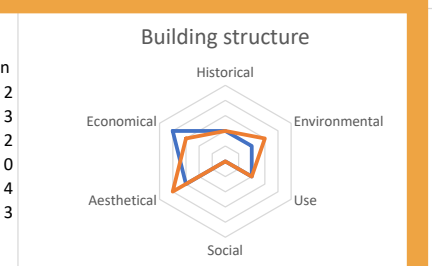
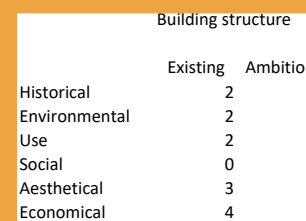
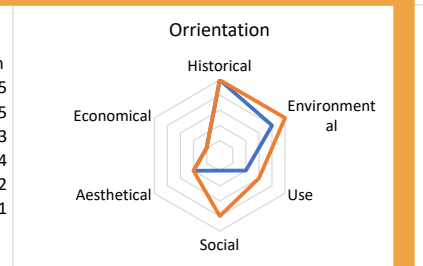
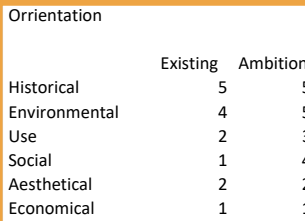
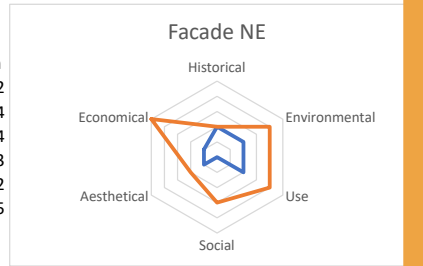
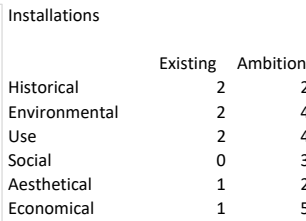
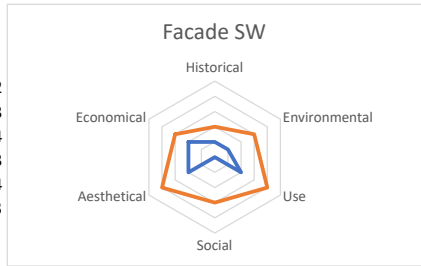
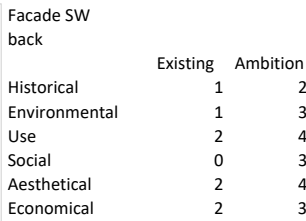
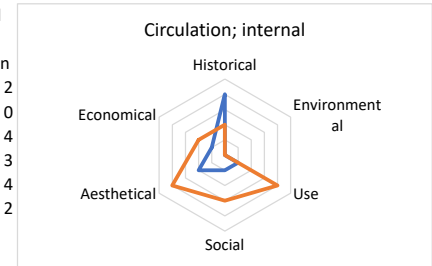
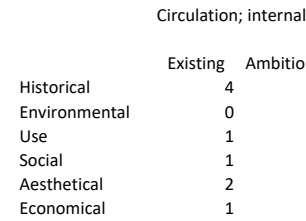
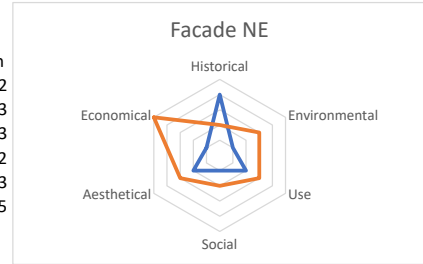
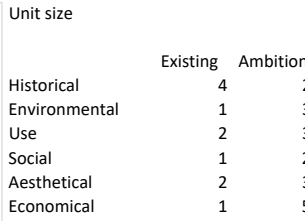
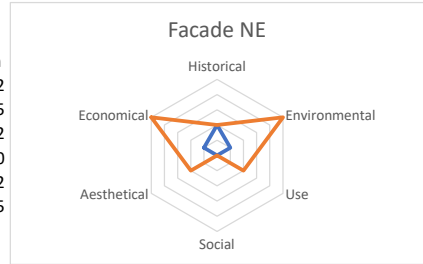
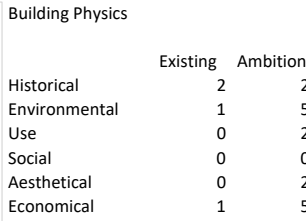
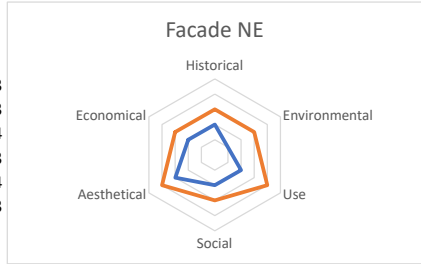
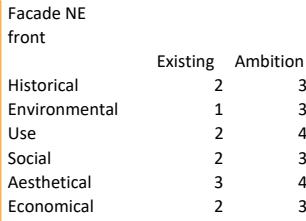
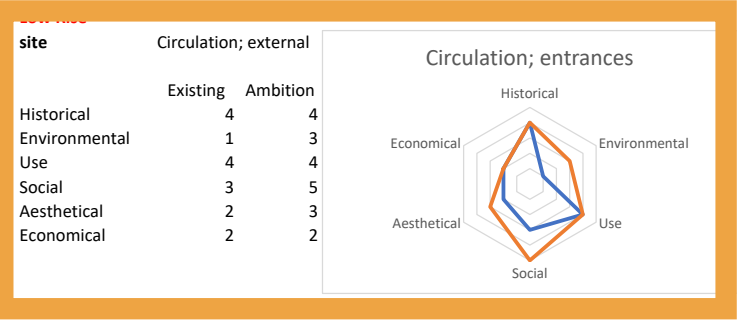
Targetgroup; mixed users, growing elderly community

BENG
(Almost Energy Zero Building)

All materials added are removable, re-used or re-usable



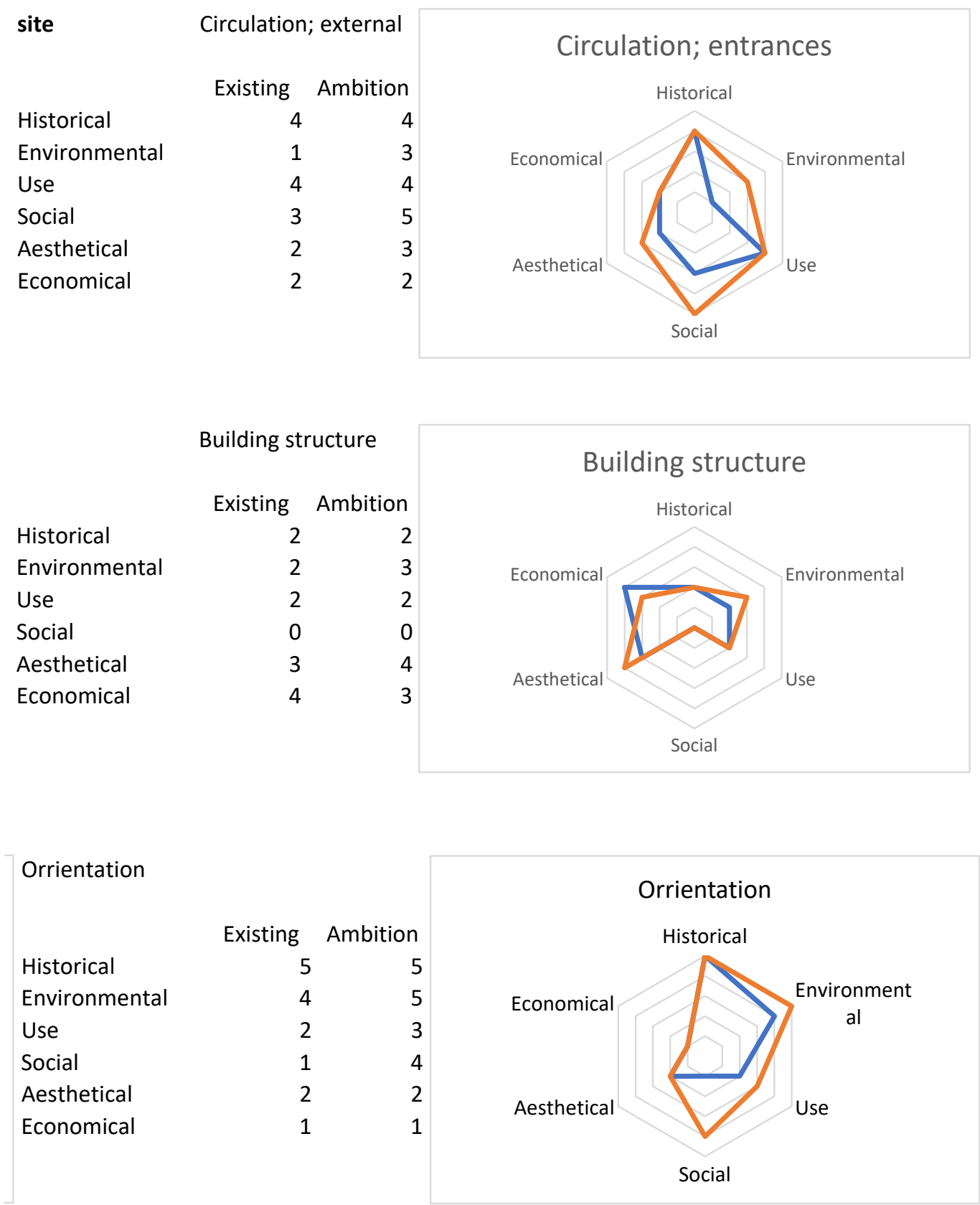
Research



Spider Diagram

Existing situation

Preservation



Conclusions

P

Preservation

What are the current architectural values and qualities of the Hoptille buildings and how can they be strengthened?



Exsisting grid

Entrance through front door
(from the outside)

C

Community

How can the existing community of Hoptille contribute in the social interaction and sustainable exploitation of the design?



Interaction in outside space to improve the lack of connection

Enhance the feeling of safety
(eyes on the street)

Private space, semi-private space and public space

F

Future Proof

How can the redevelopment of Hoptille anticipate on the future housing demands of the aging population and the future net zero energy ambition?



Targetgroup; mixed users, growing elderly community

BENG
(Almost Energy Zero Building)

All materials added are removable, re-used or re-usable

Content

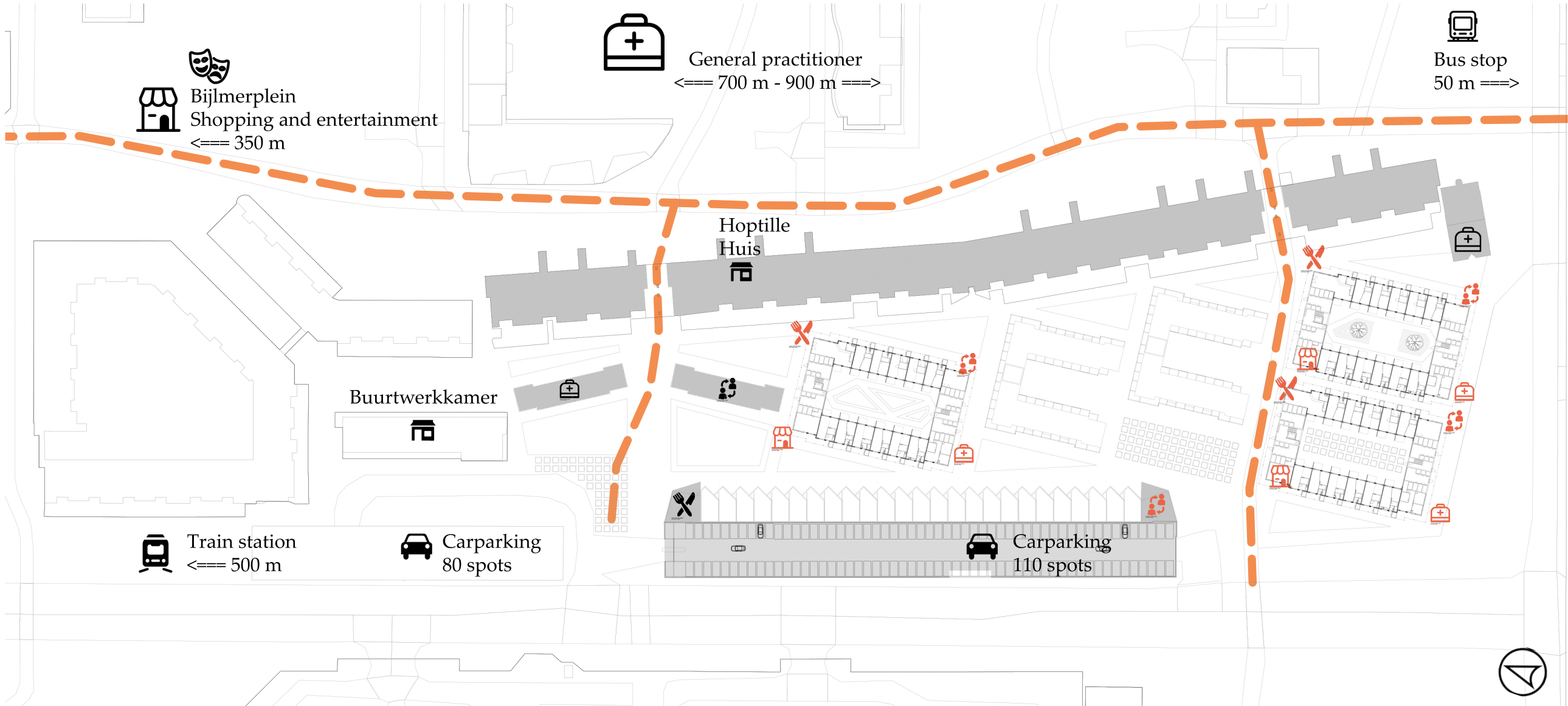
Introduction

Research

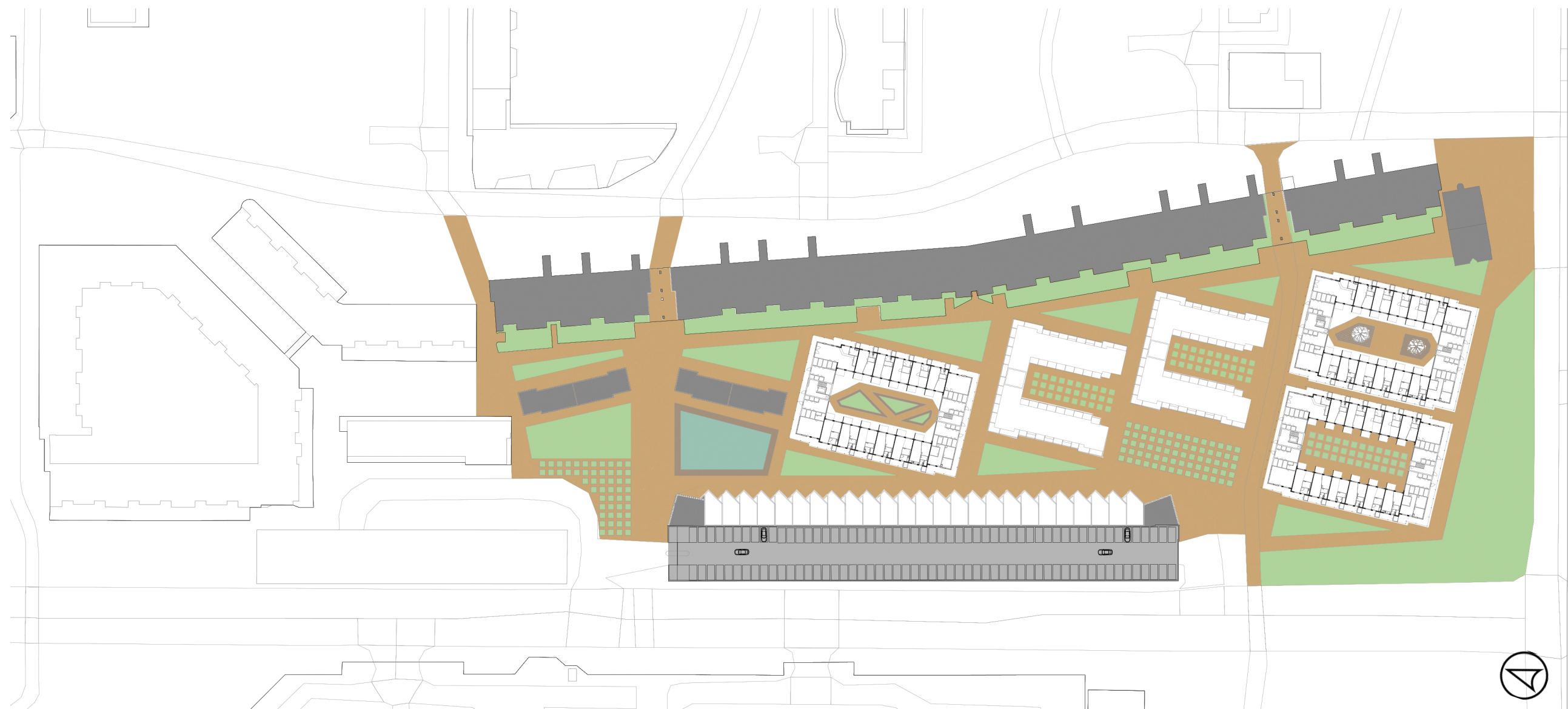
Design

Reflection

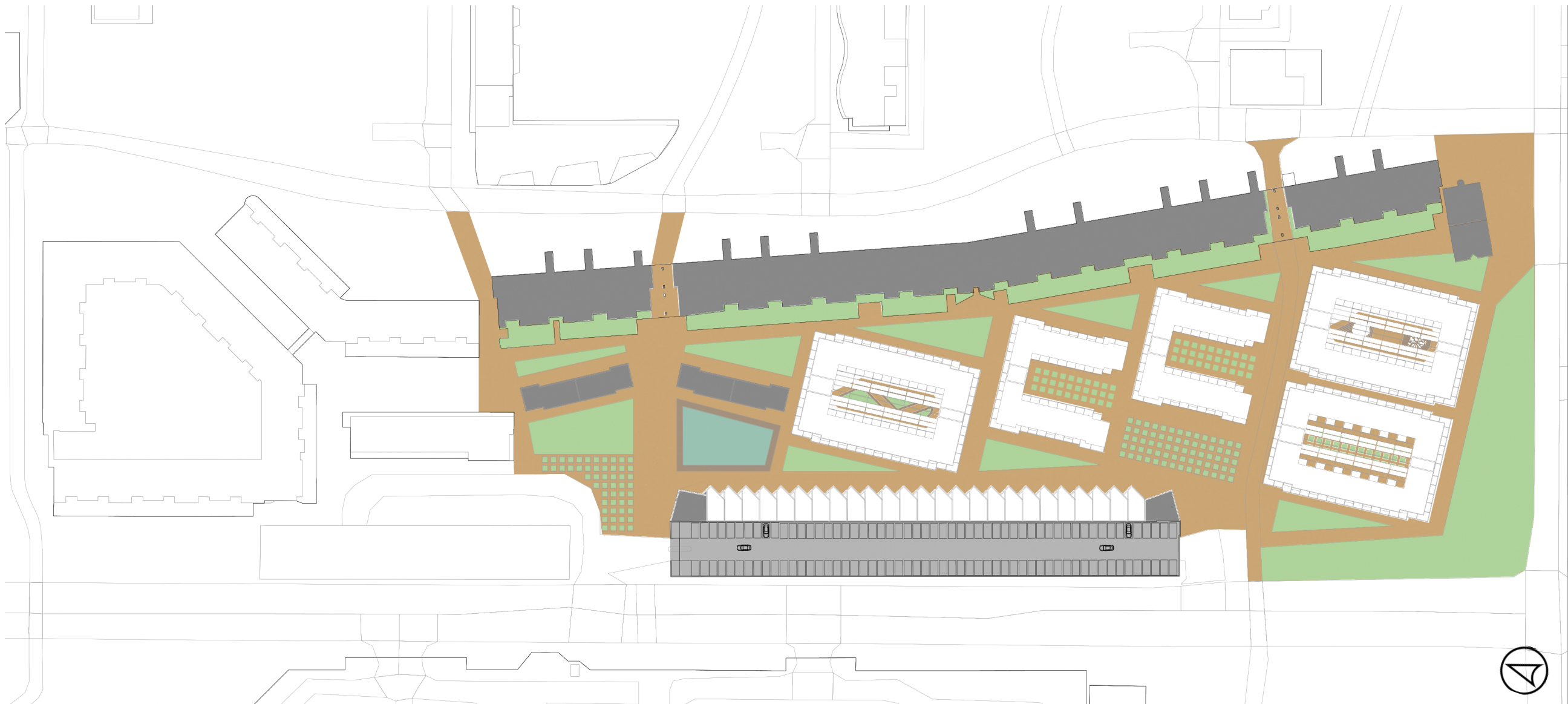




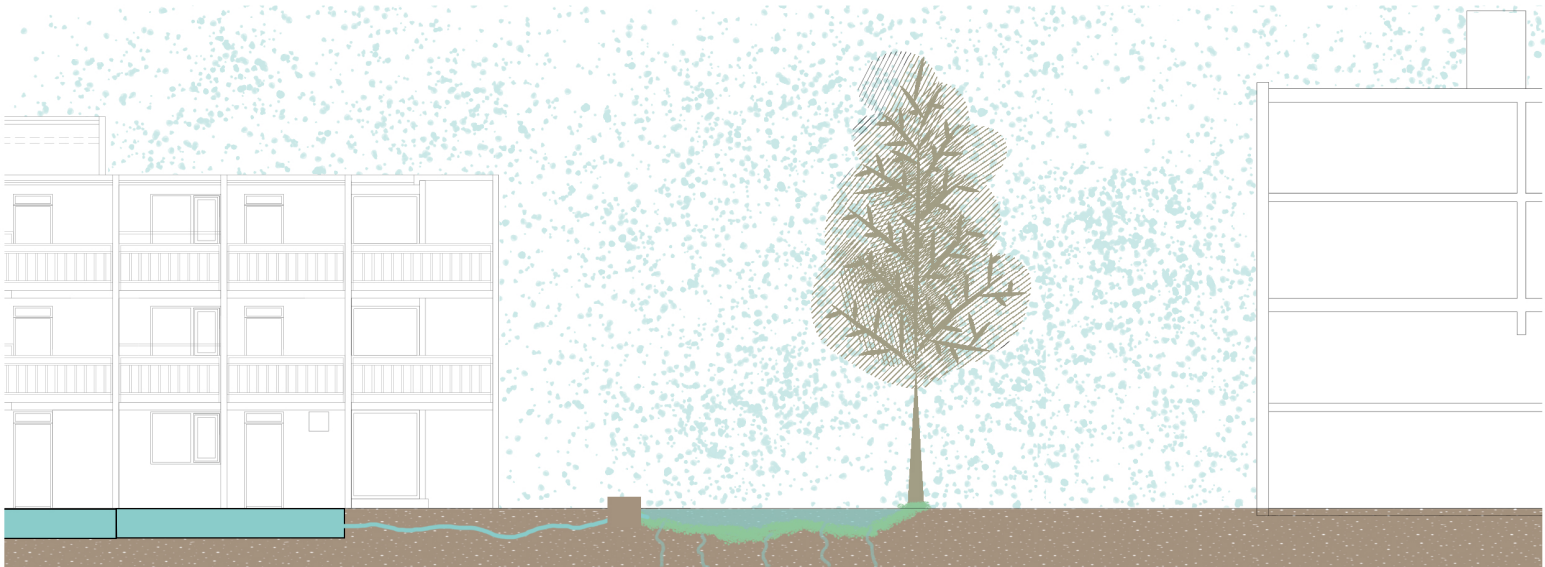
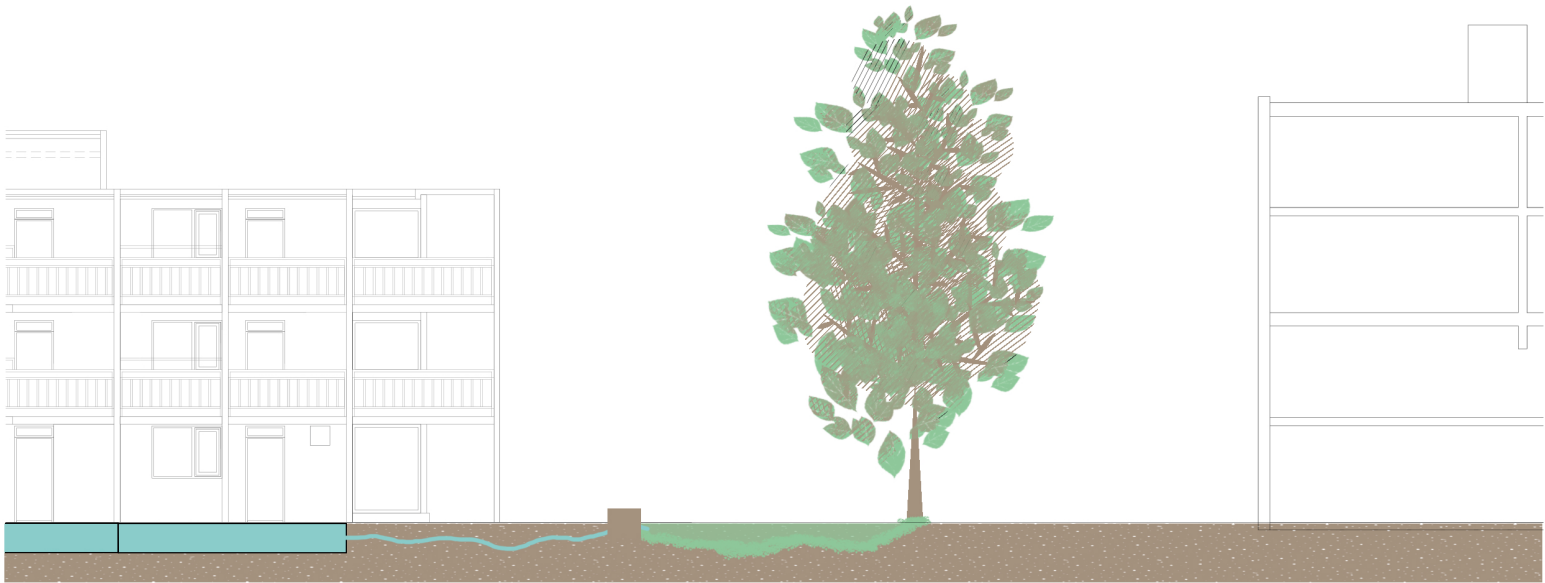
Hoptille area
1 to 1500
Amenities

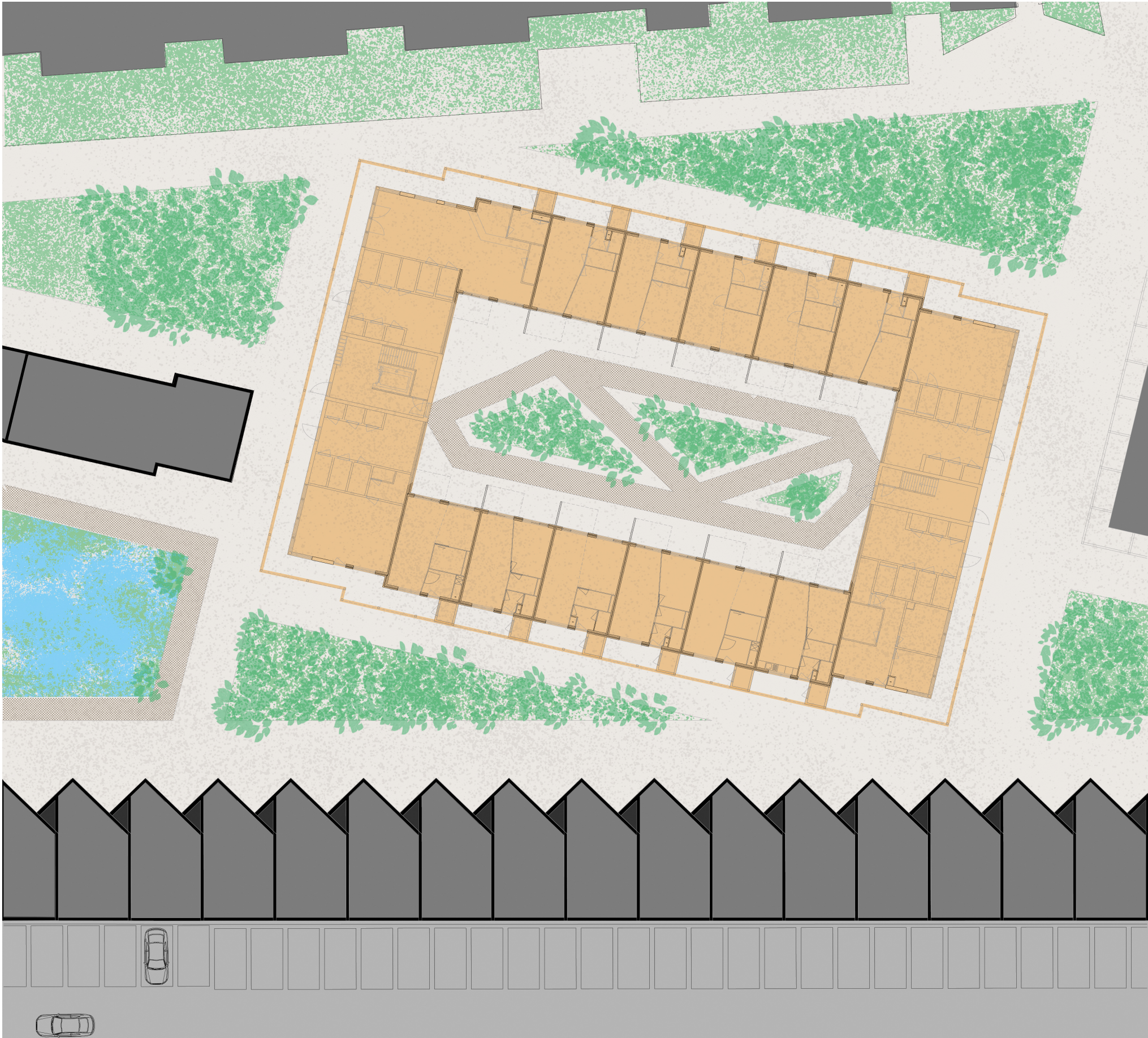


Hoptille area
1 to 1500
Ground level



Hoptille area
1 to 1500
Future Proof
interventions

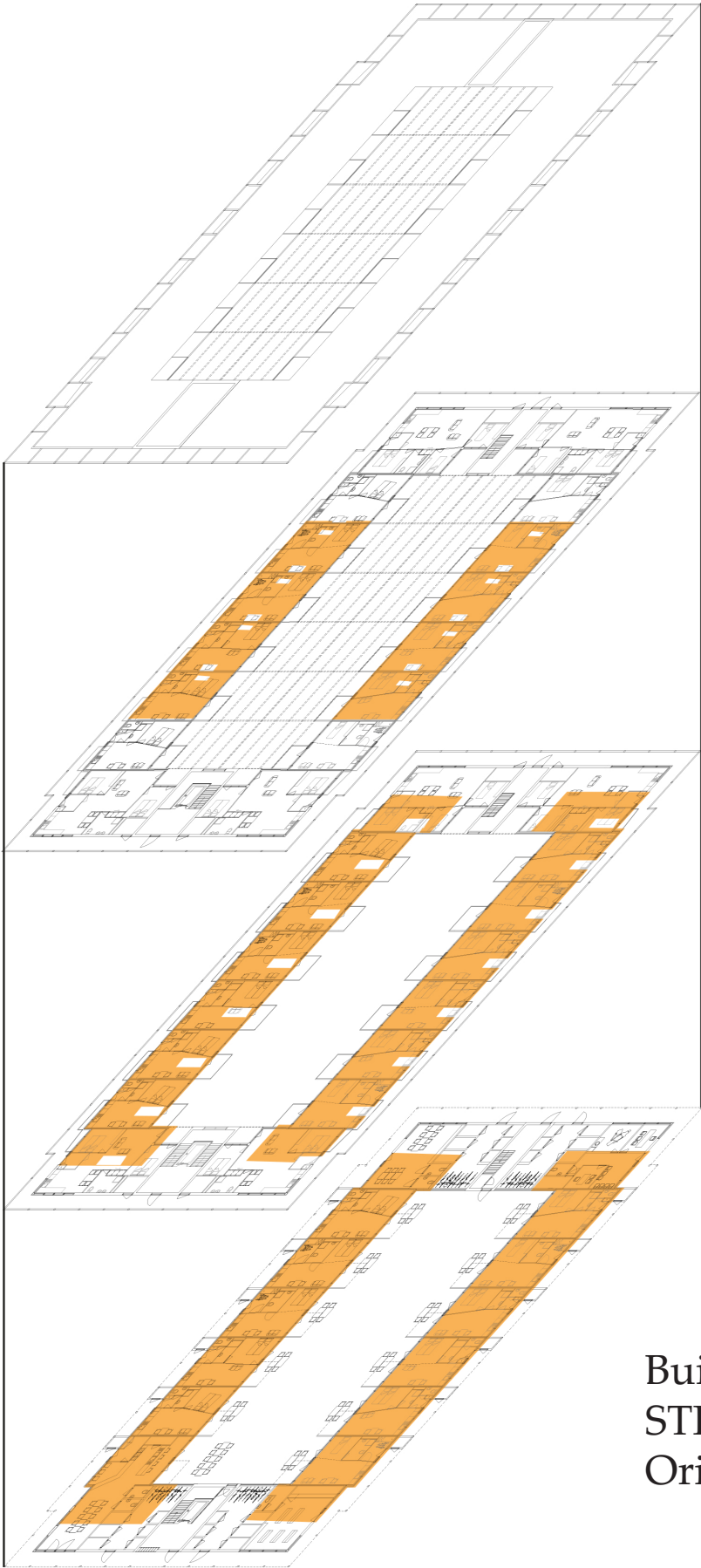




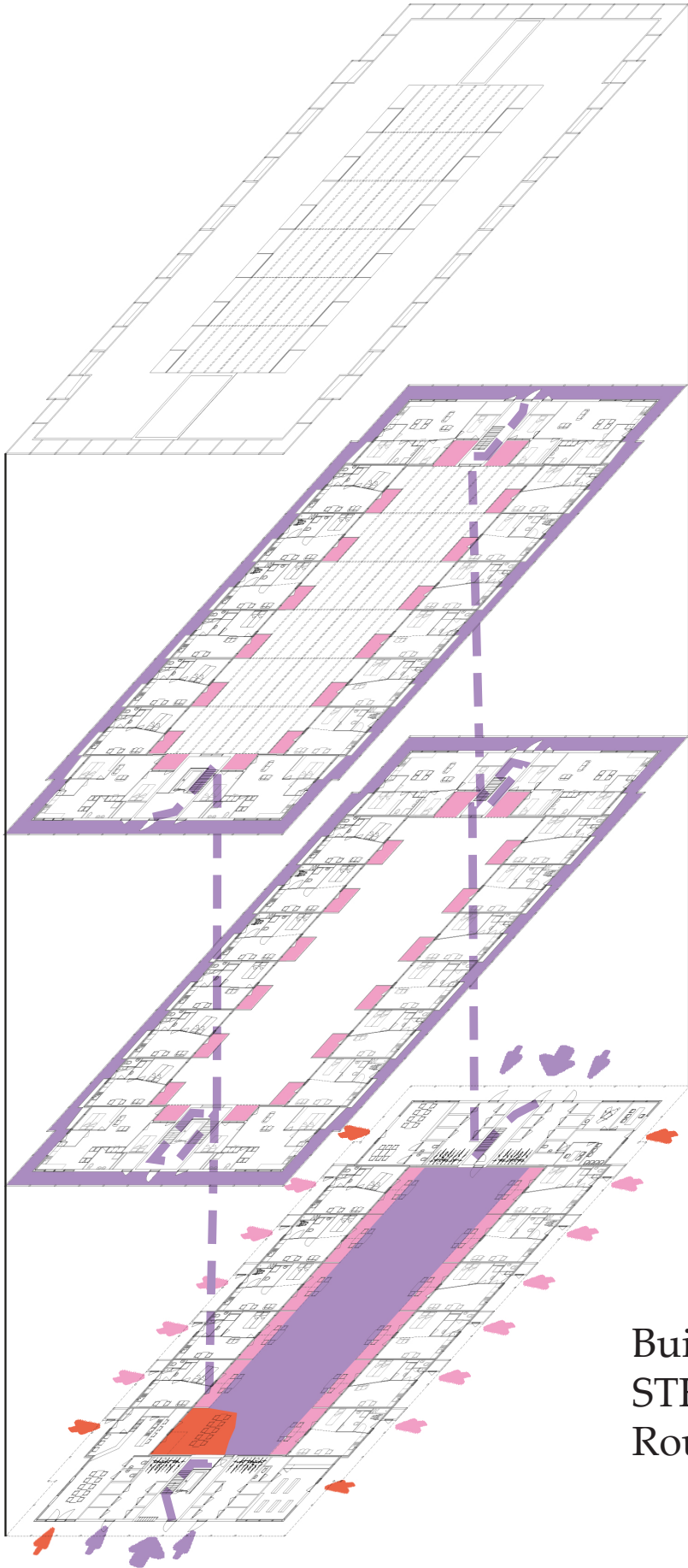
Direct area Block
1 to 300

Private
Semi-private
Public





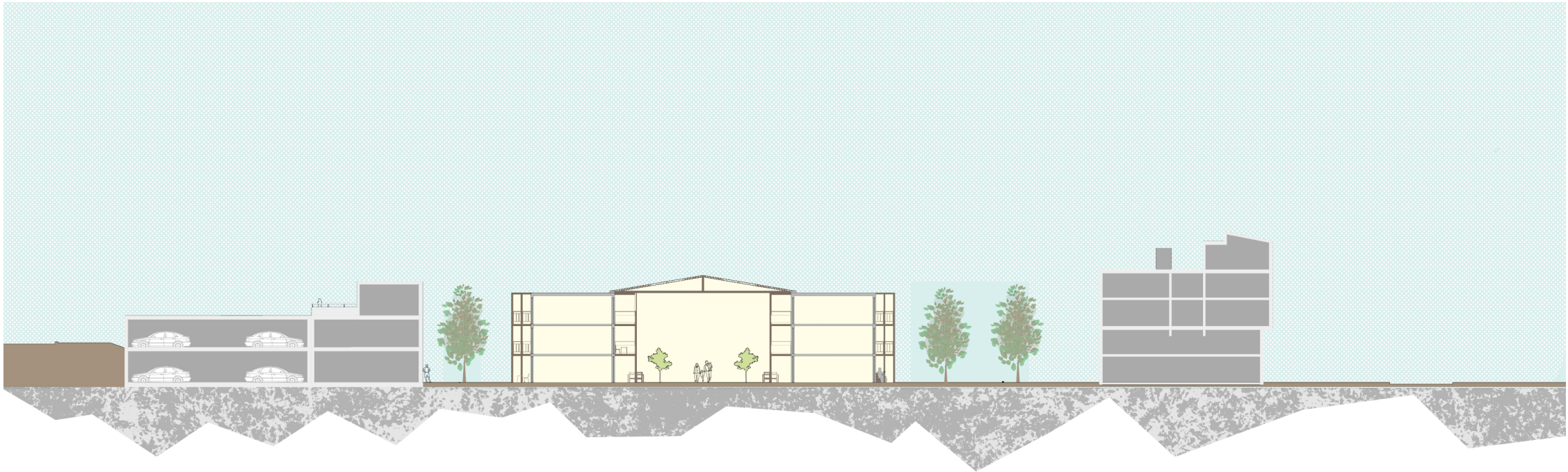
Building block
STF
Original building

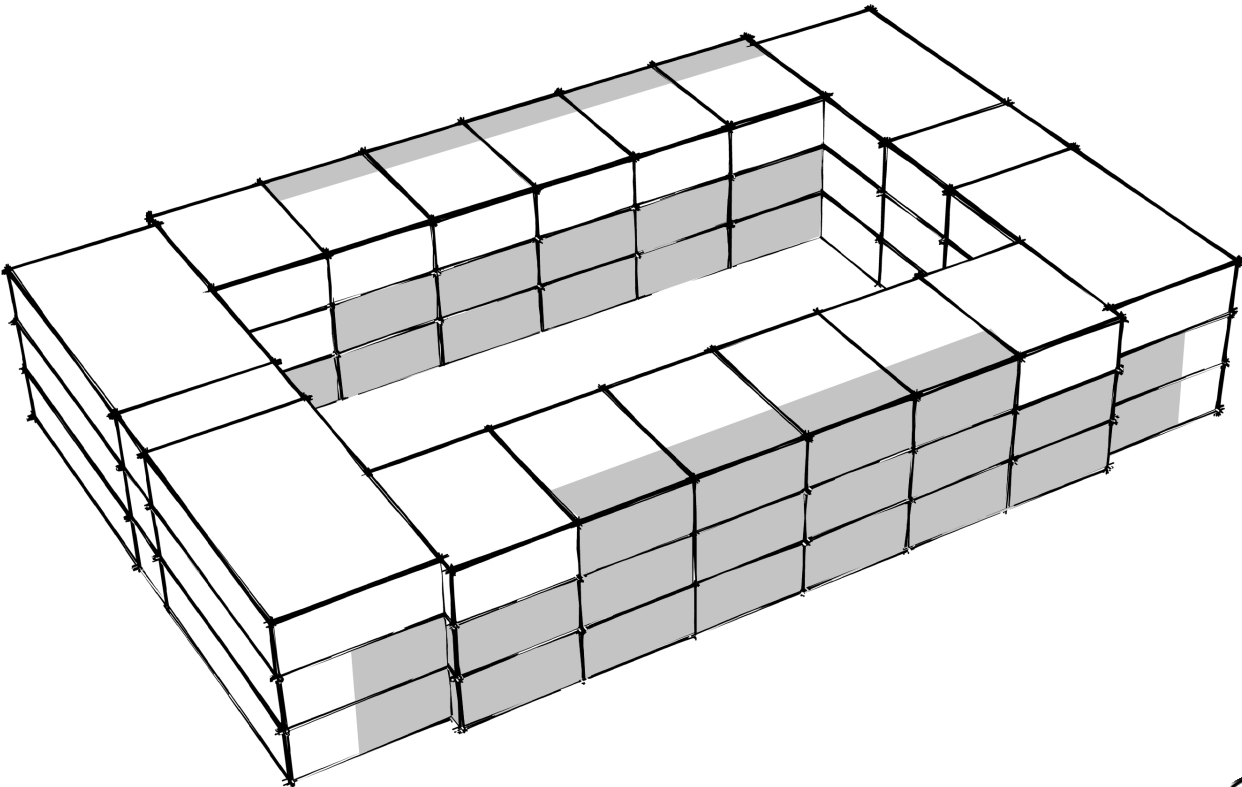
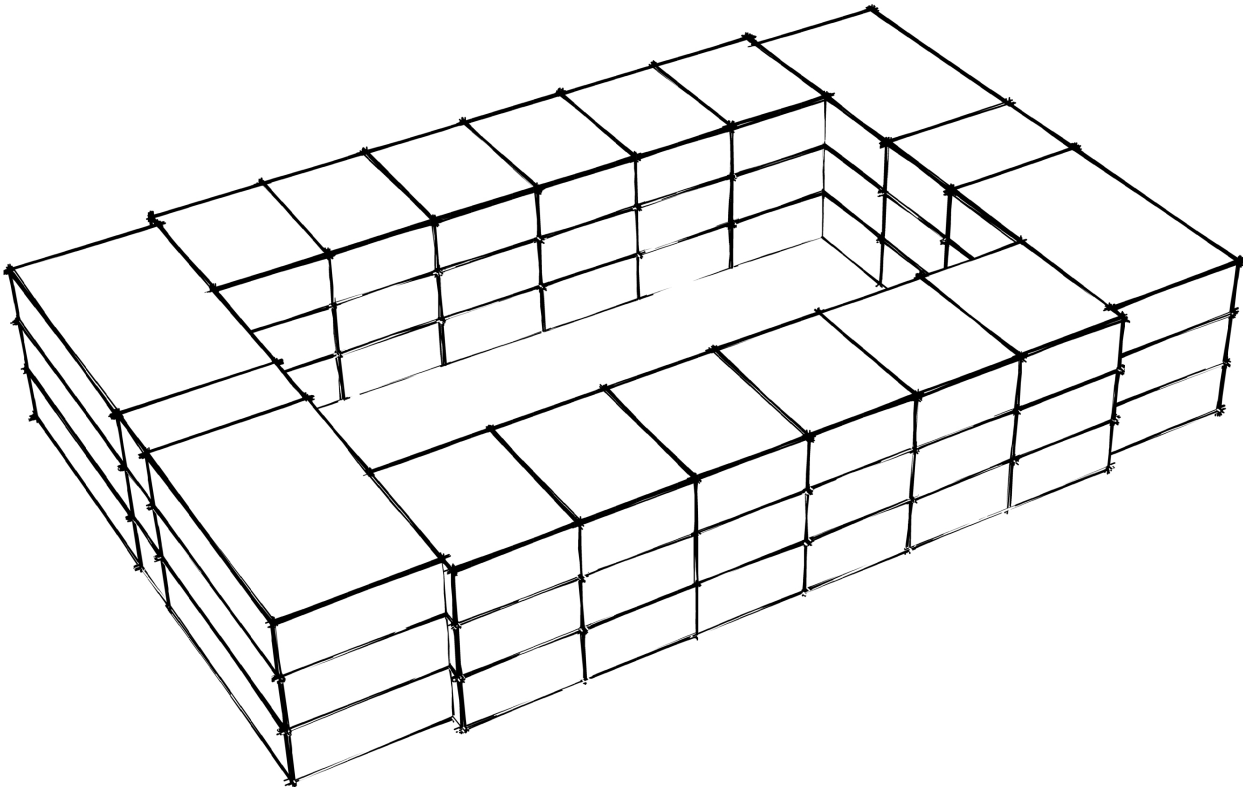


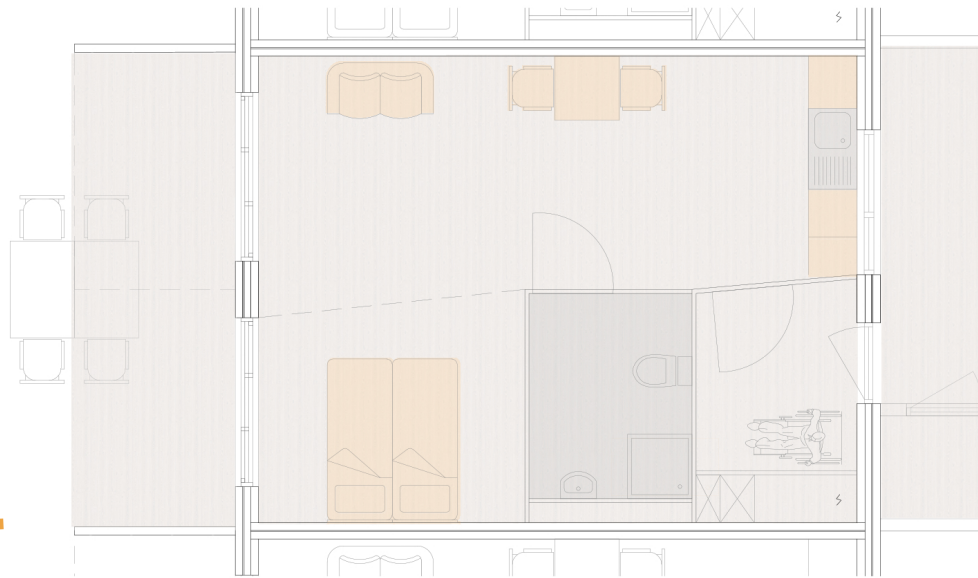
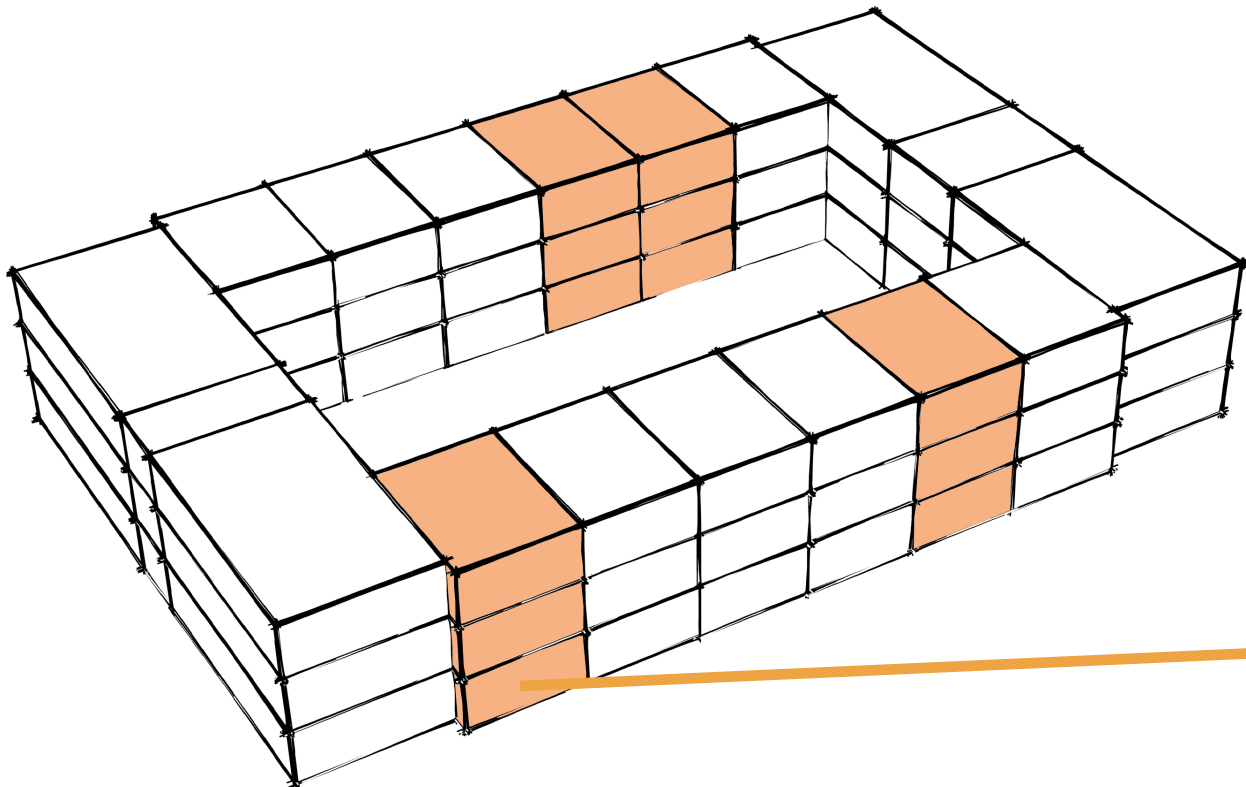
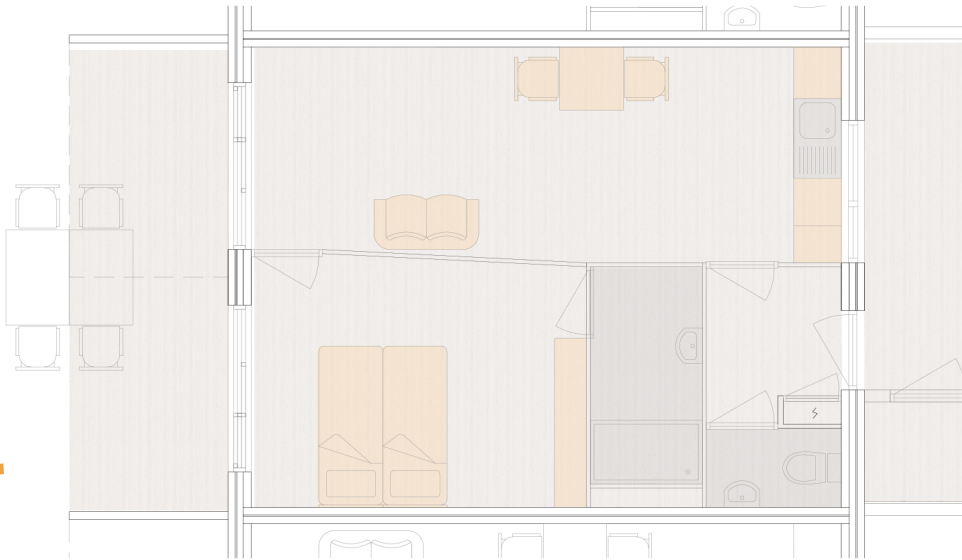
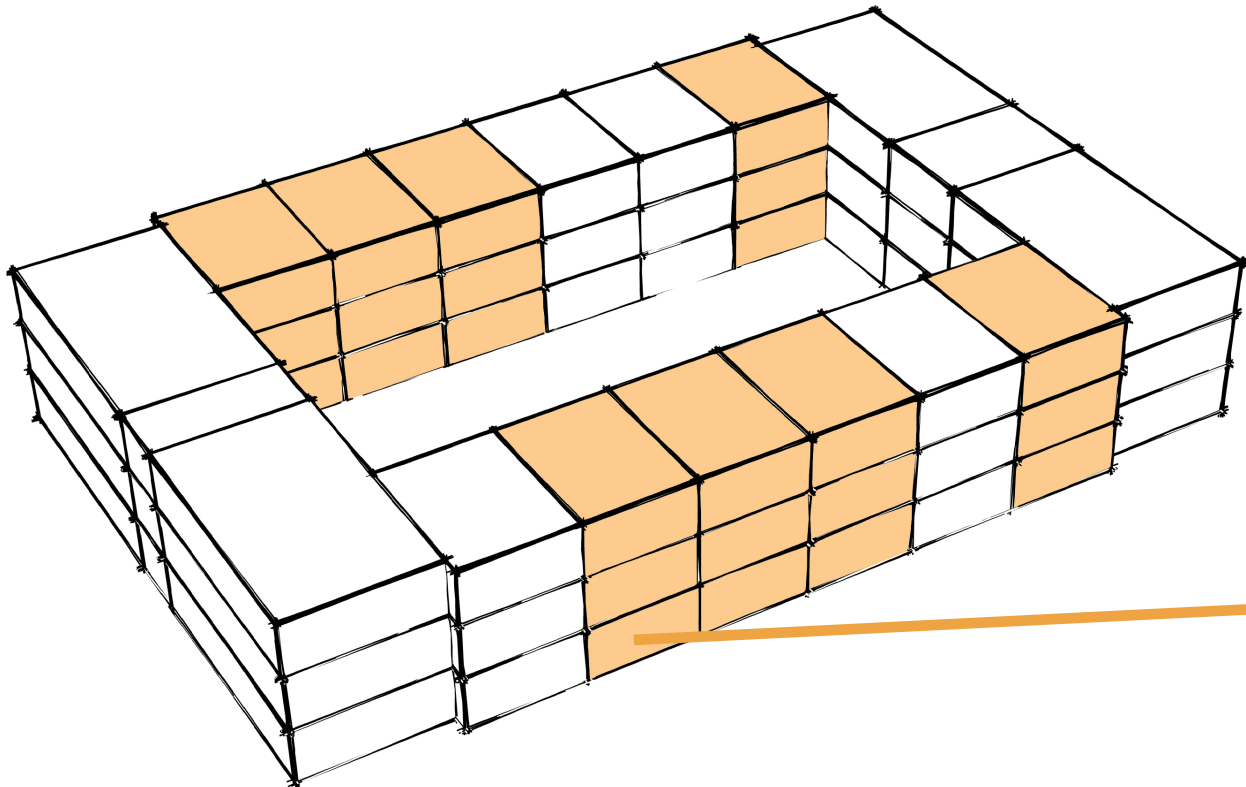
Building block
STF
Routing



Street section

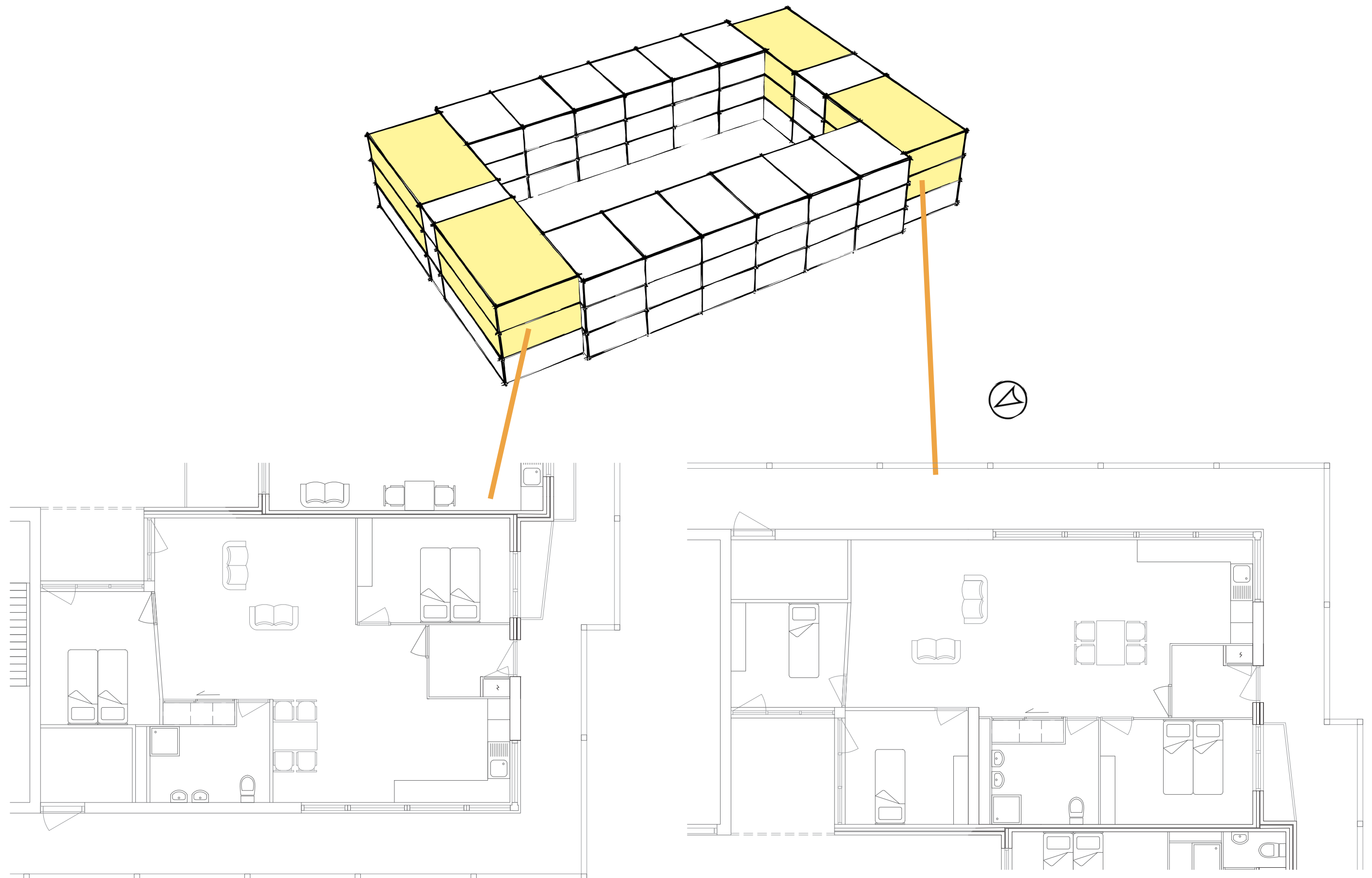




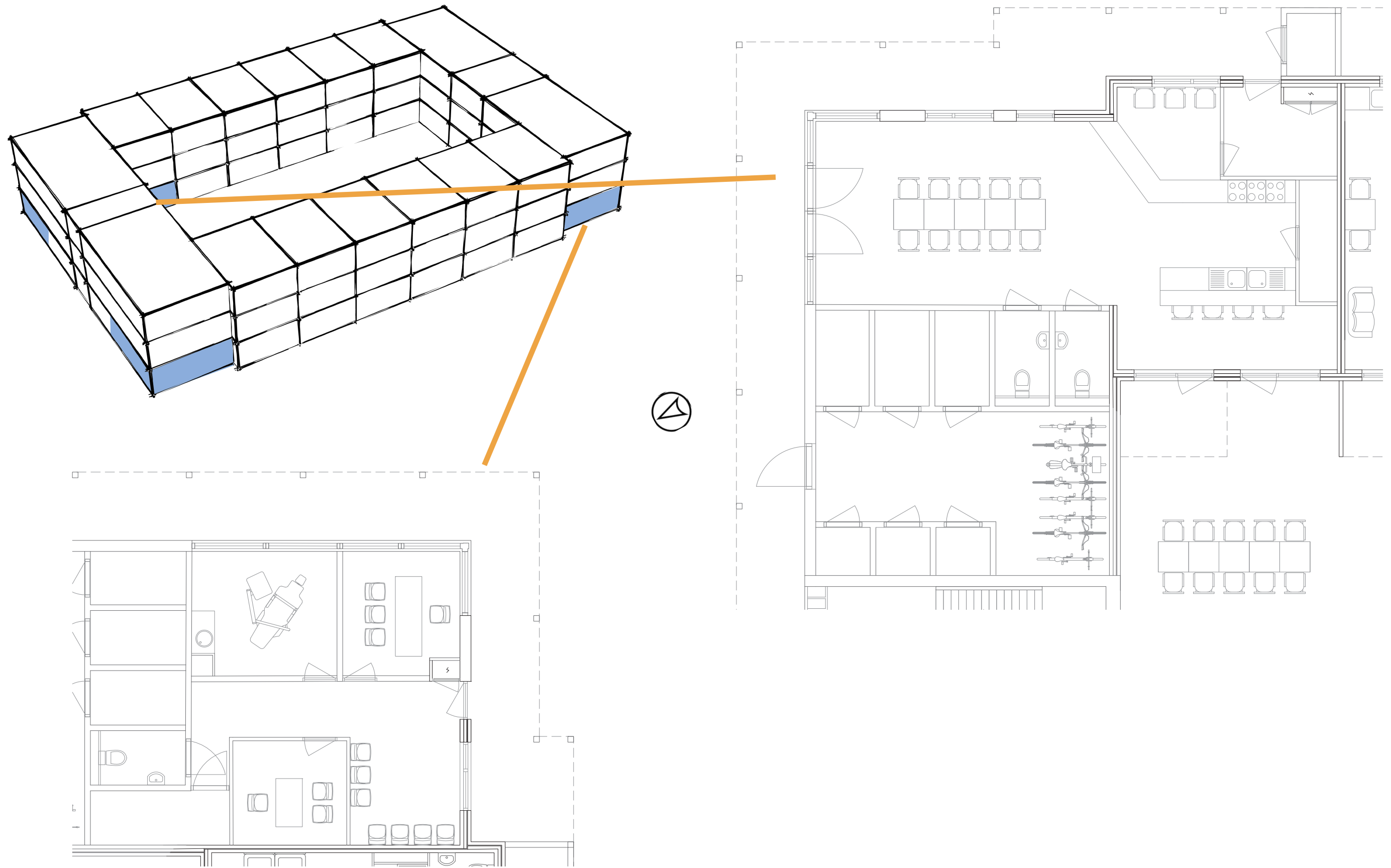


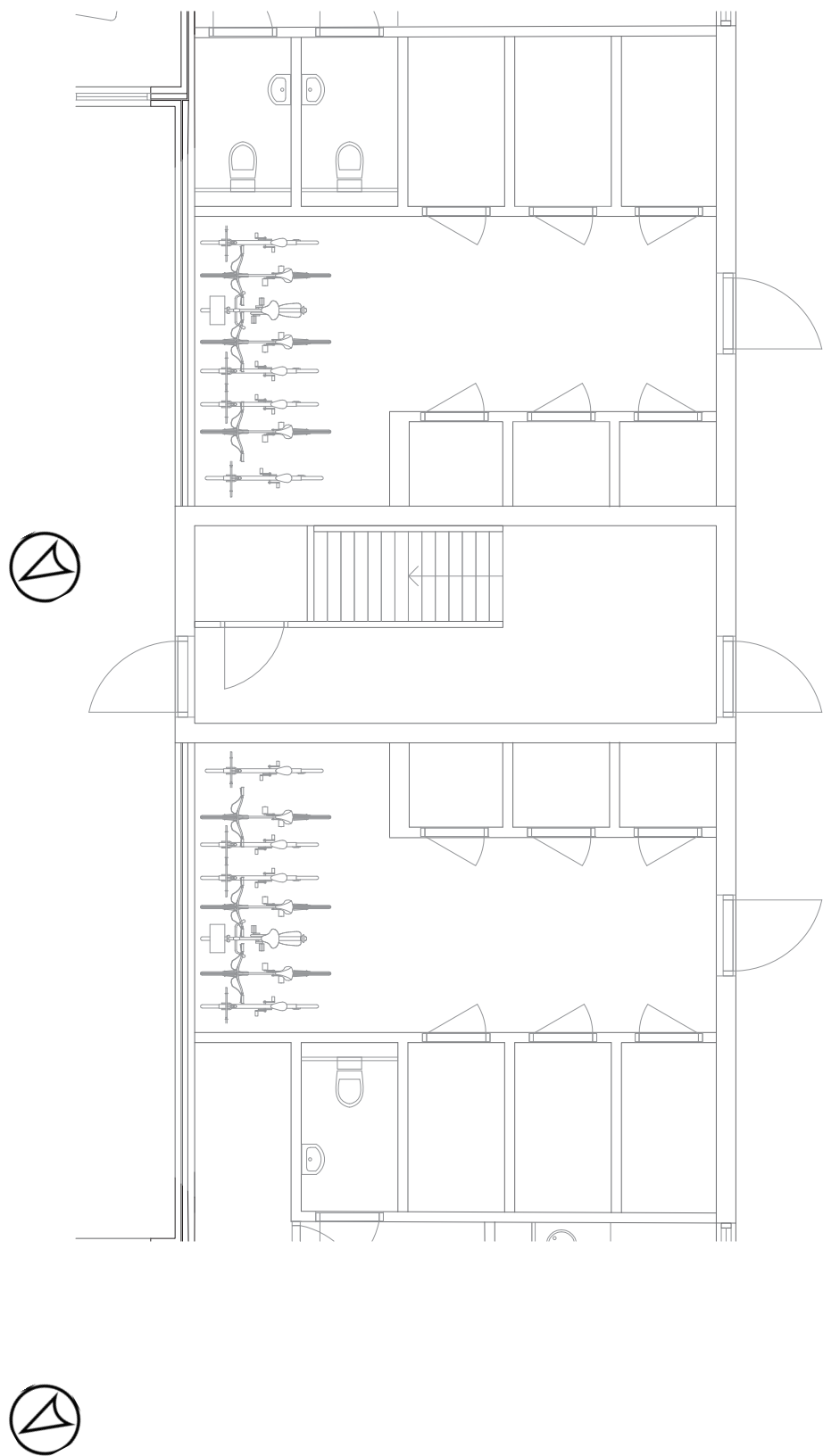
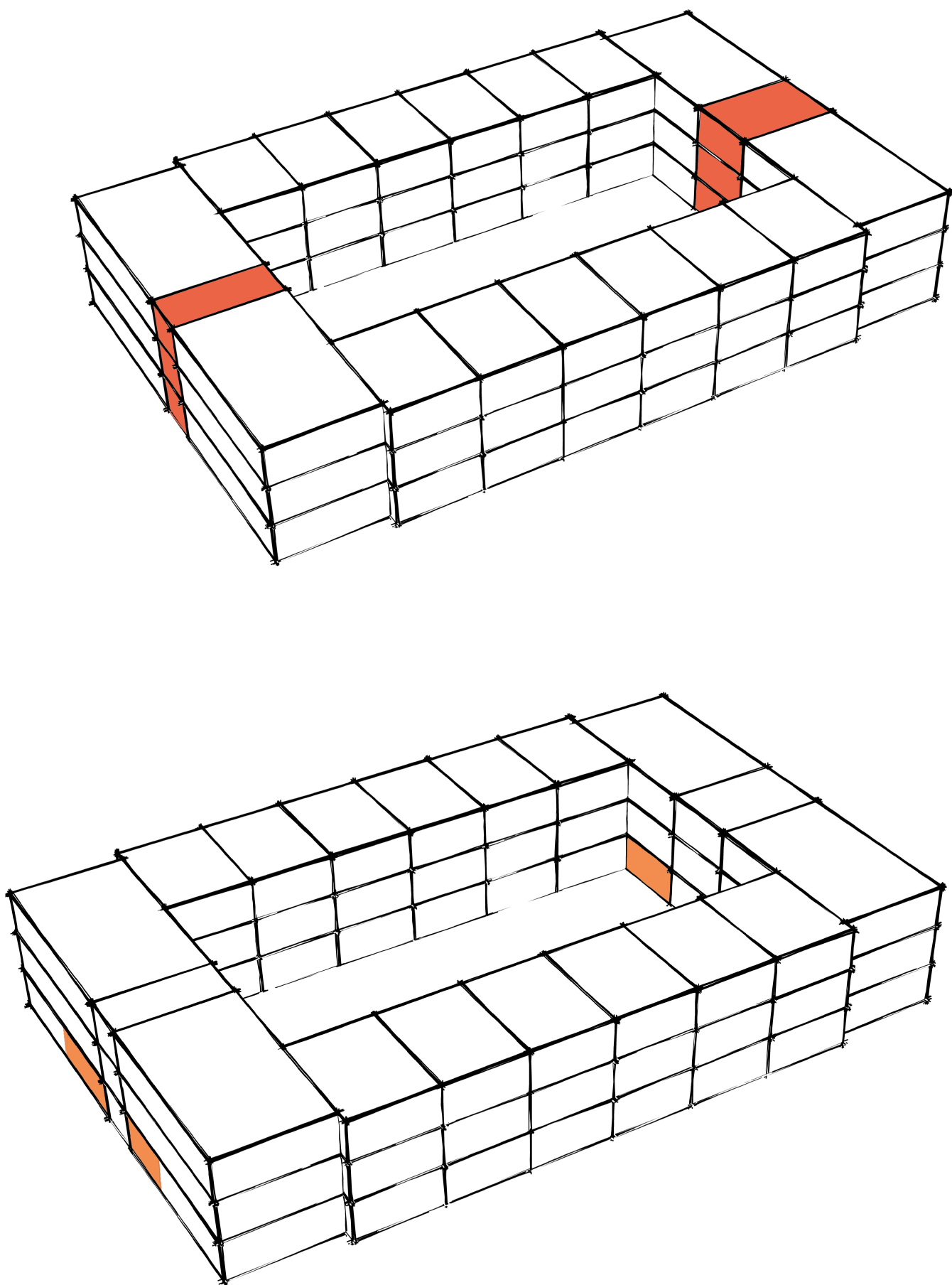
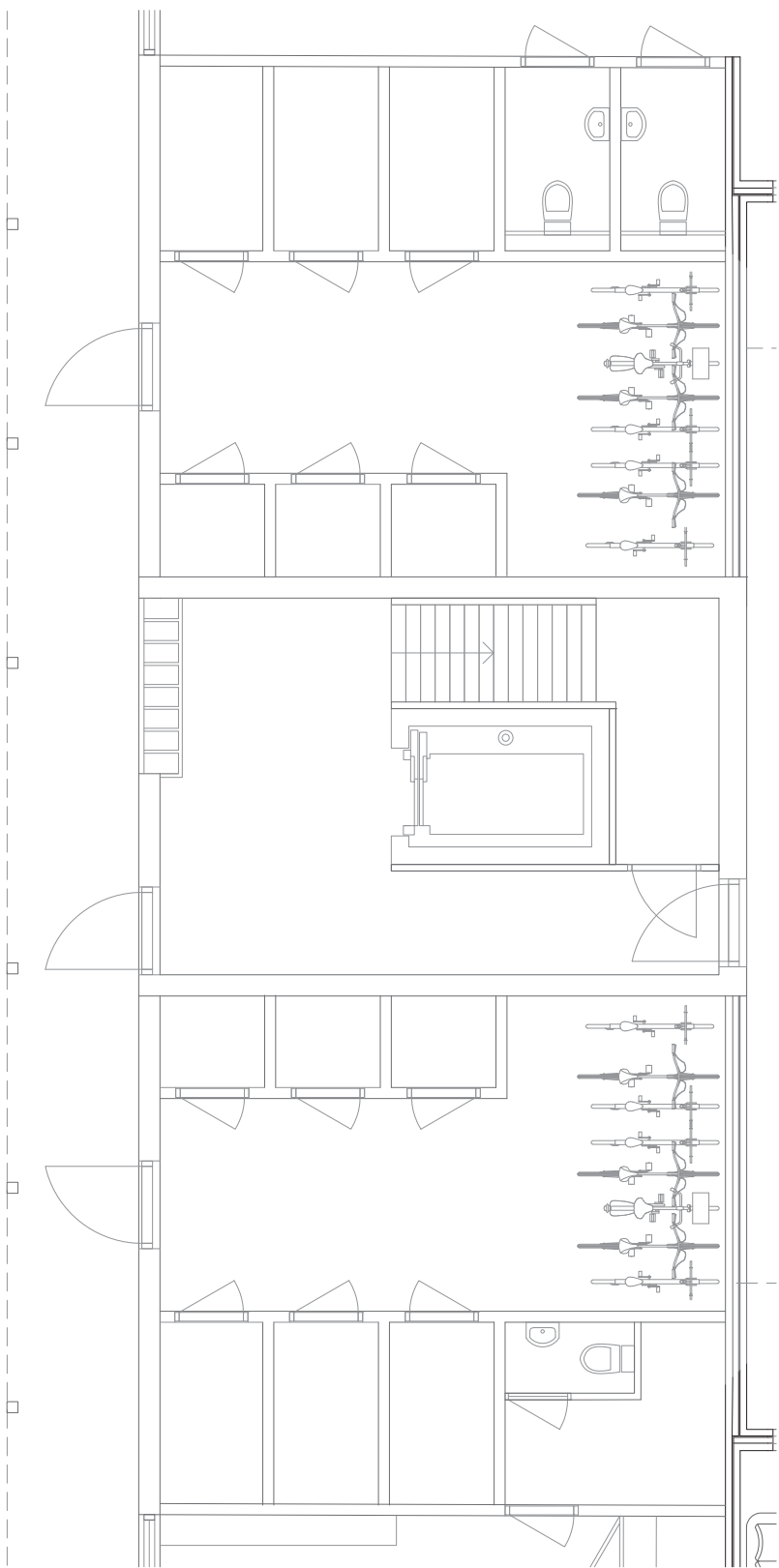
Building block

C

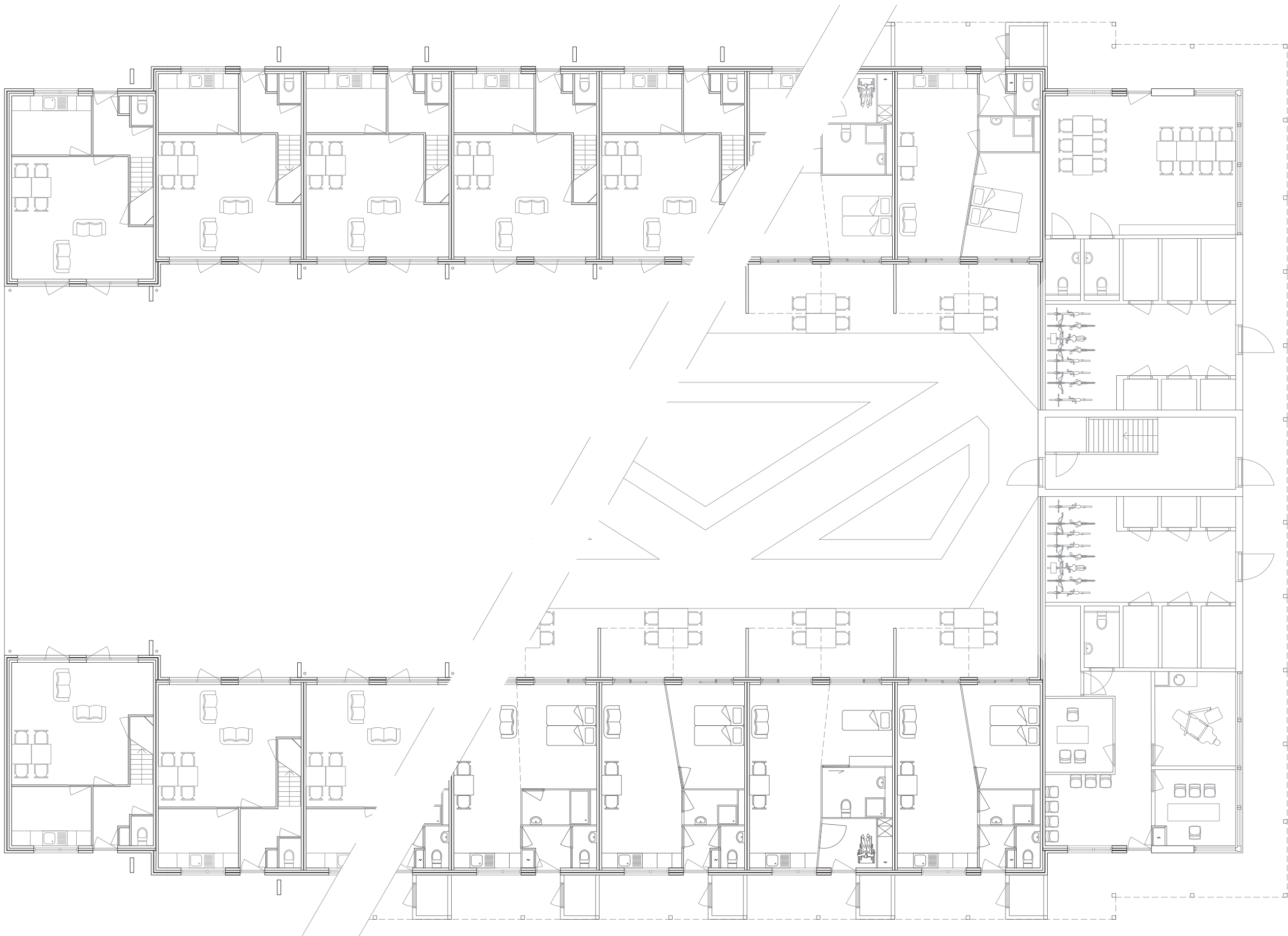


Family units (8) from 86 m² up to 100 m² (1 to 100)



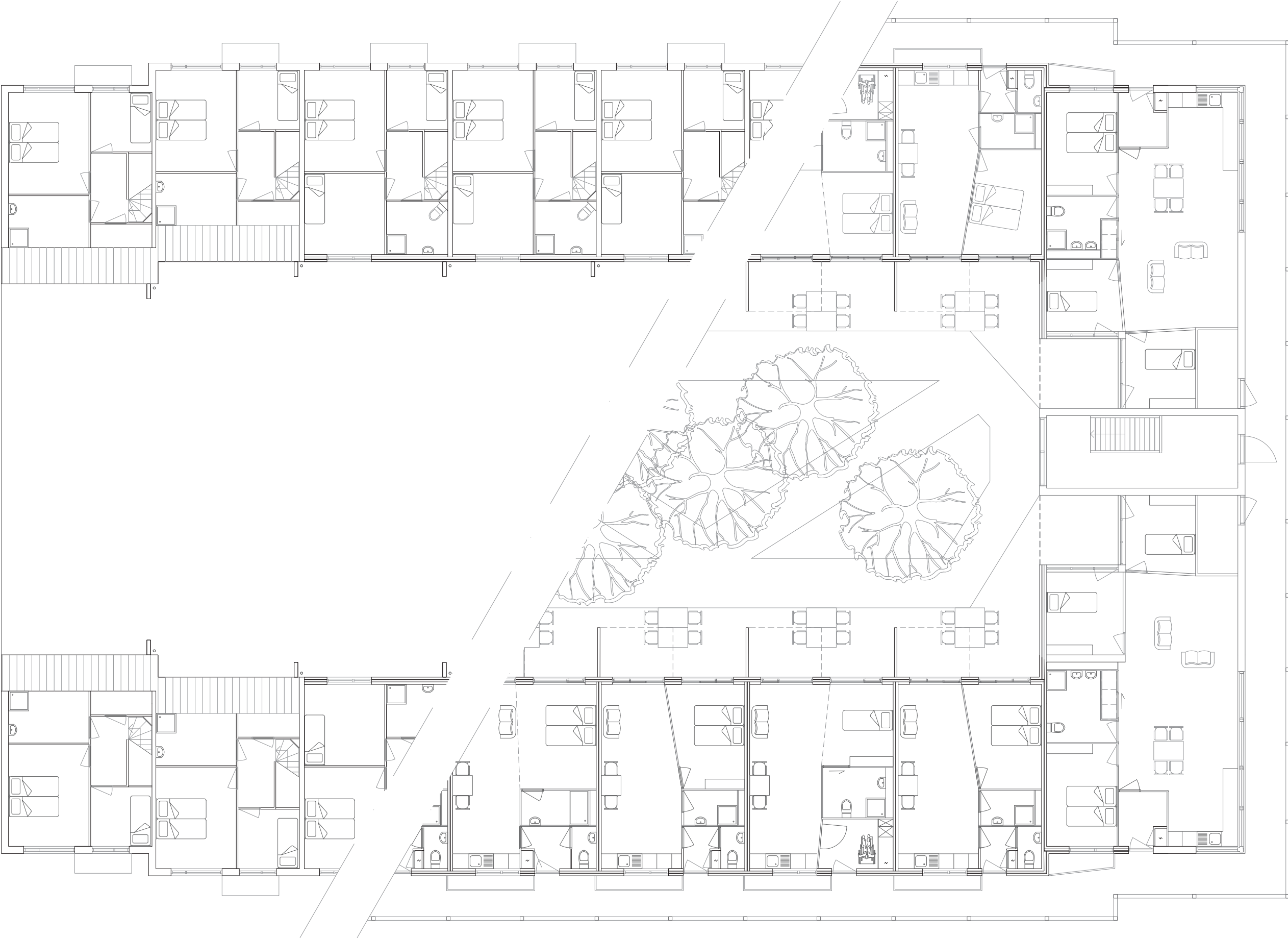


Ground level



Old vs New (1 to 150)

First Floor

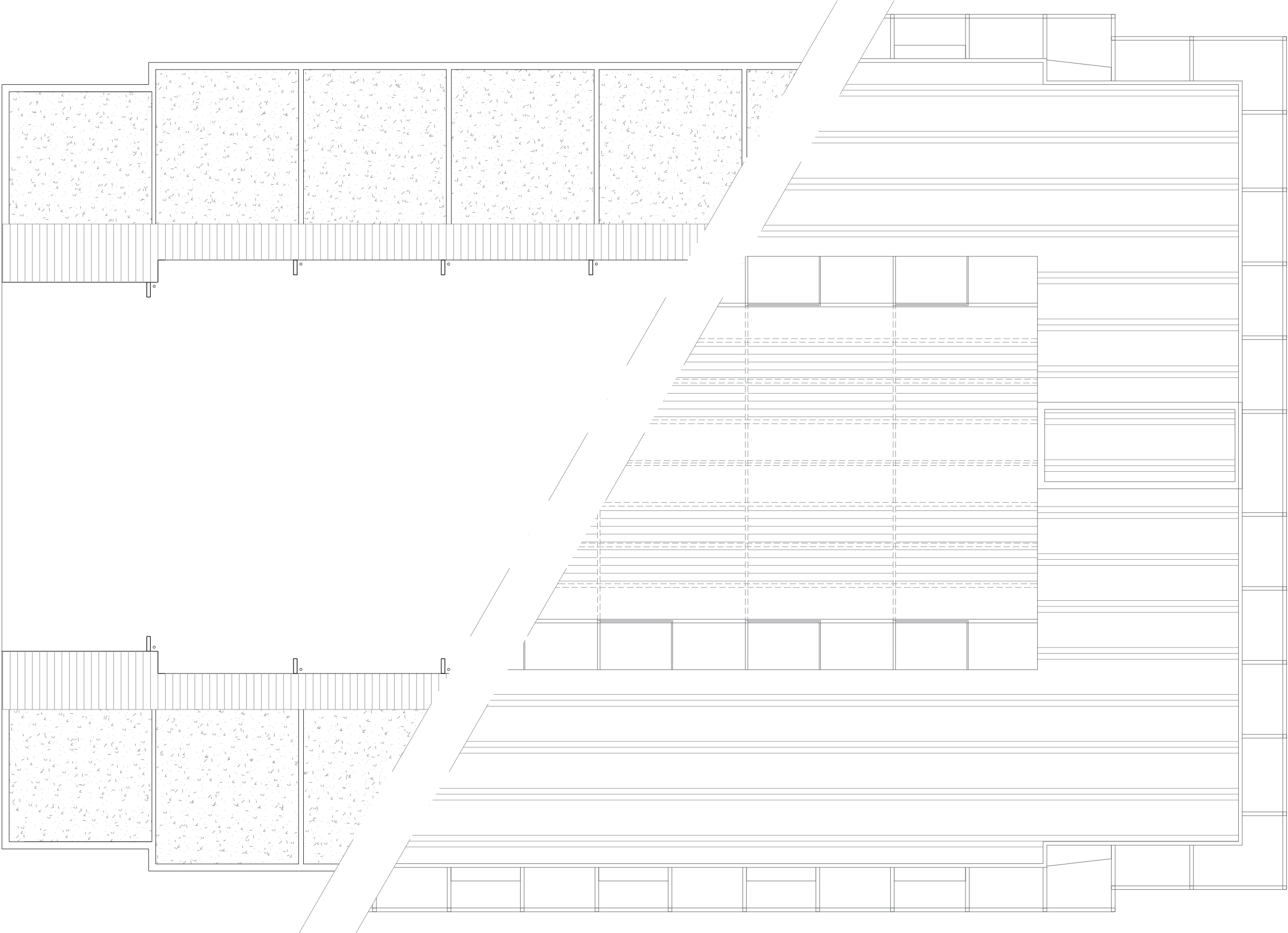


Second Floor



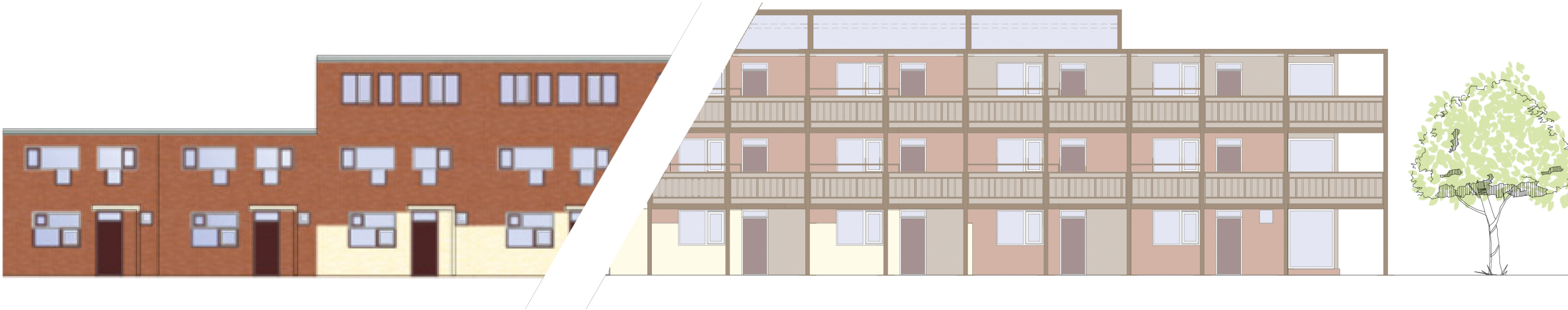
Old vs New (1 to 150)

Roof



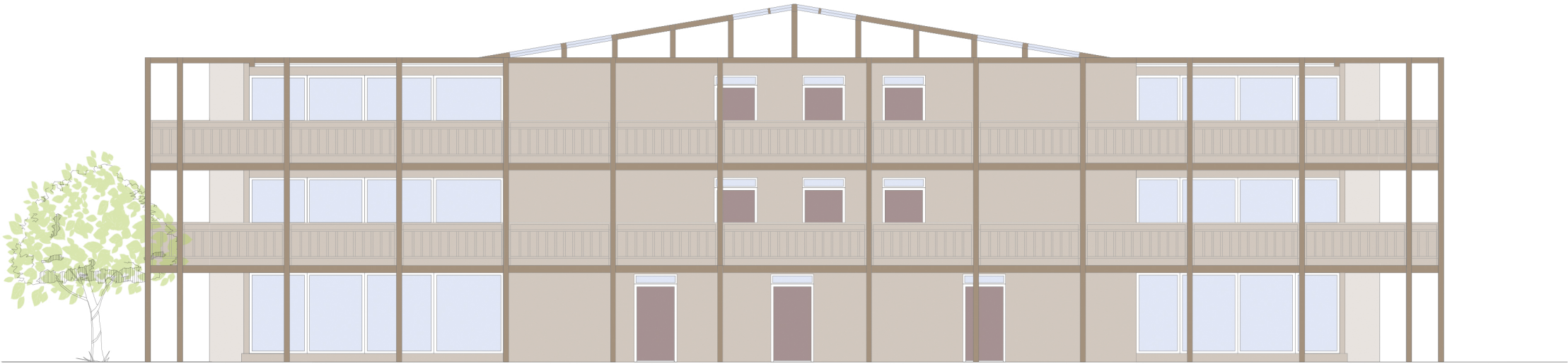
Old vs New (1 to 150)

Front Façade

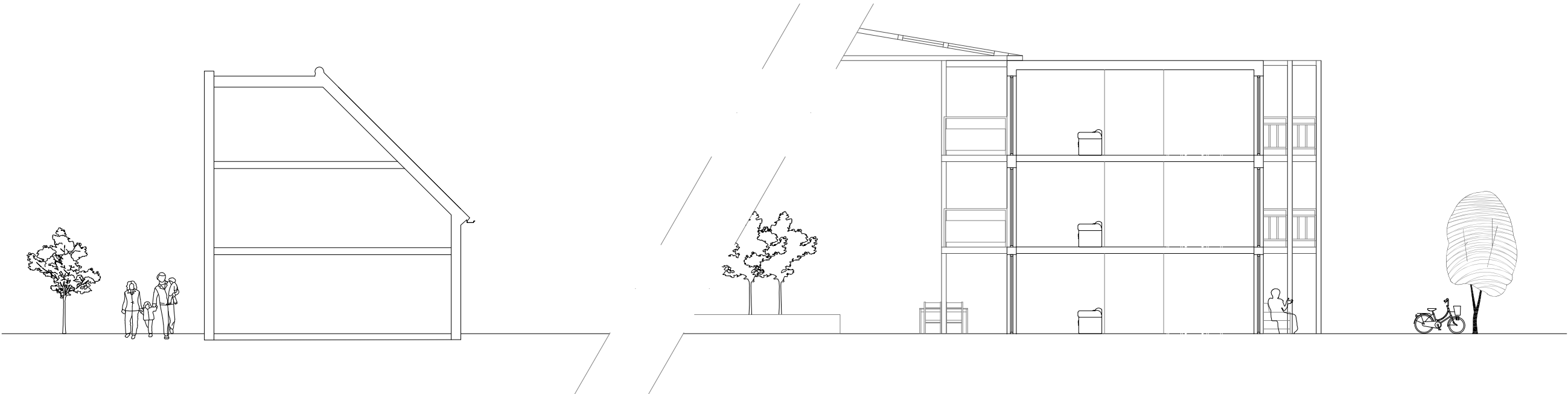


Back Façade





Section



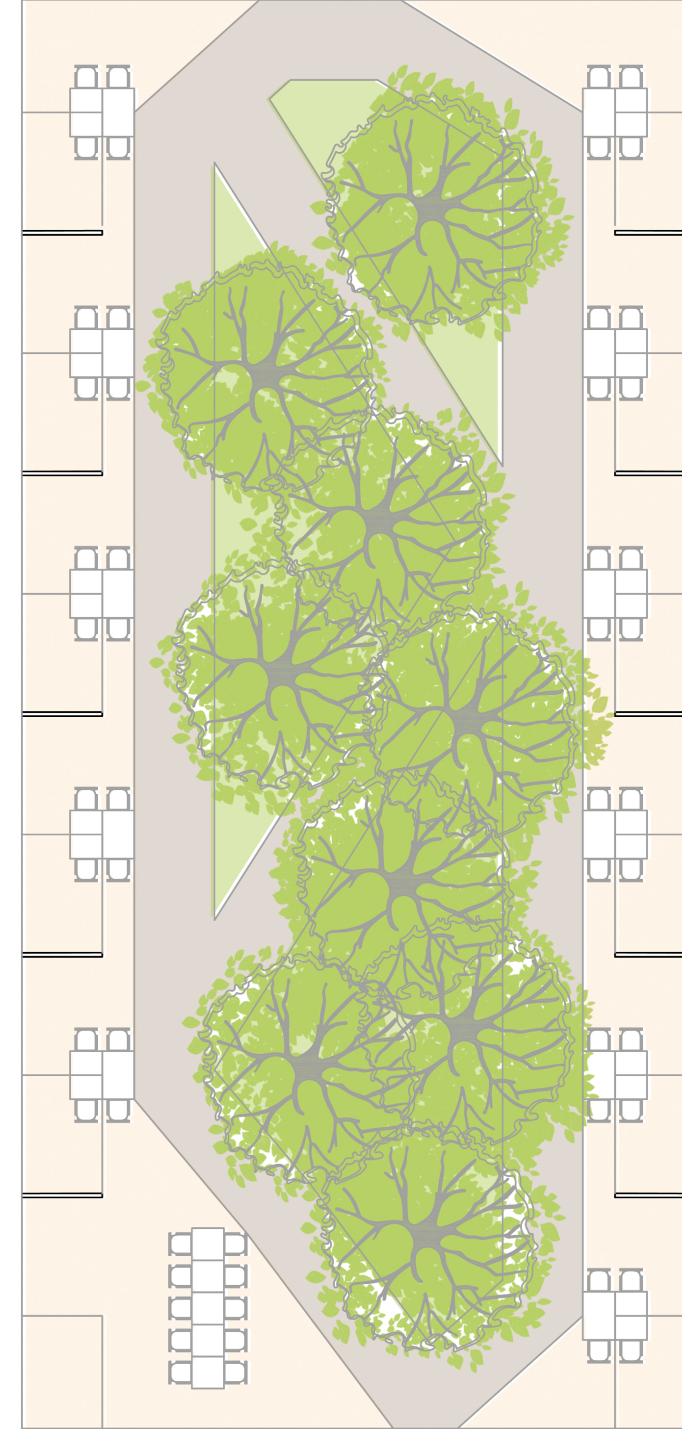
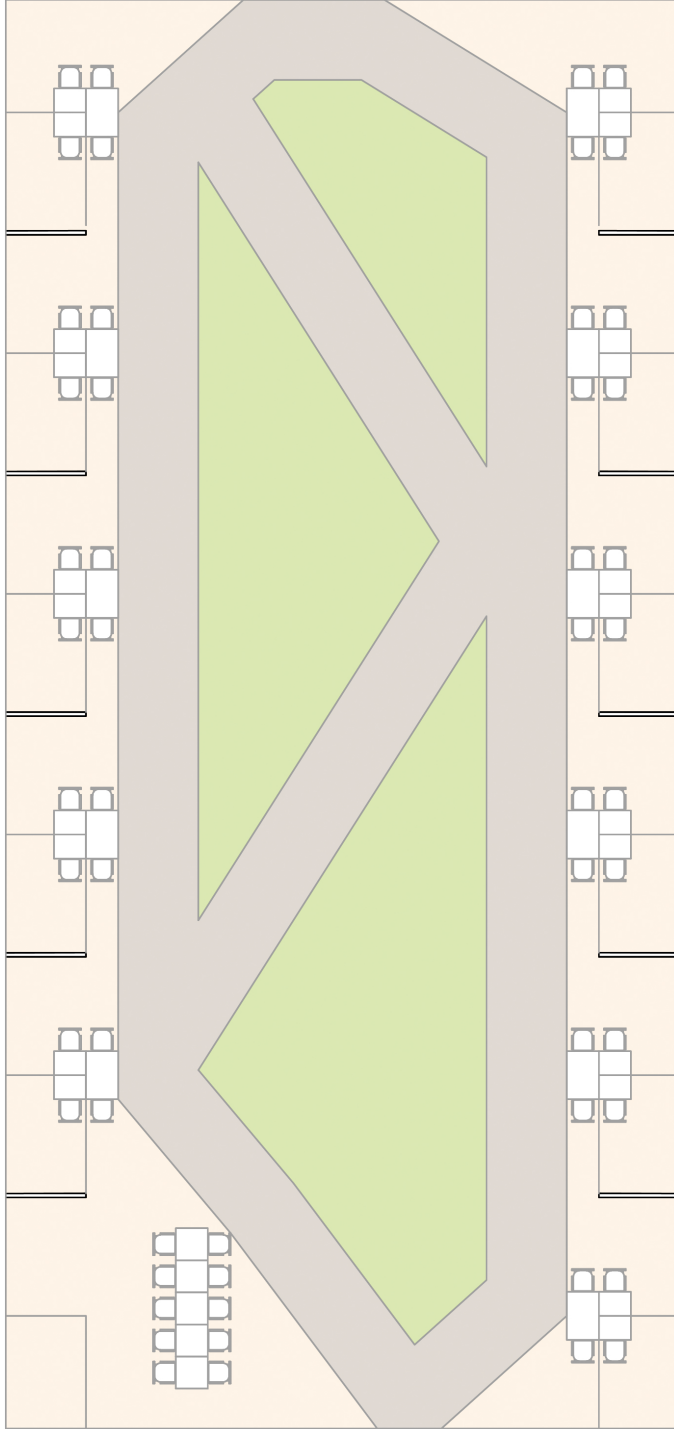
Section



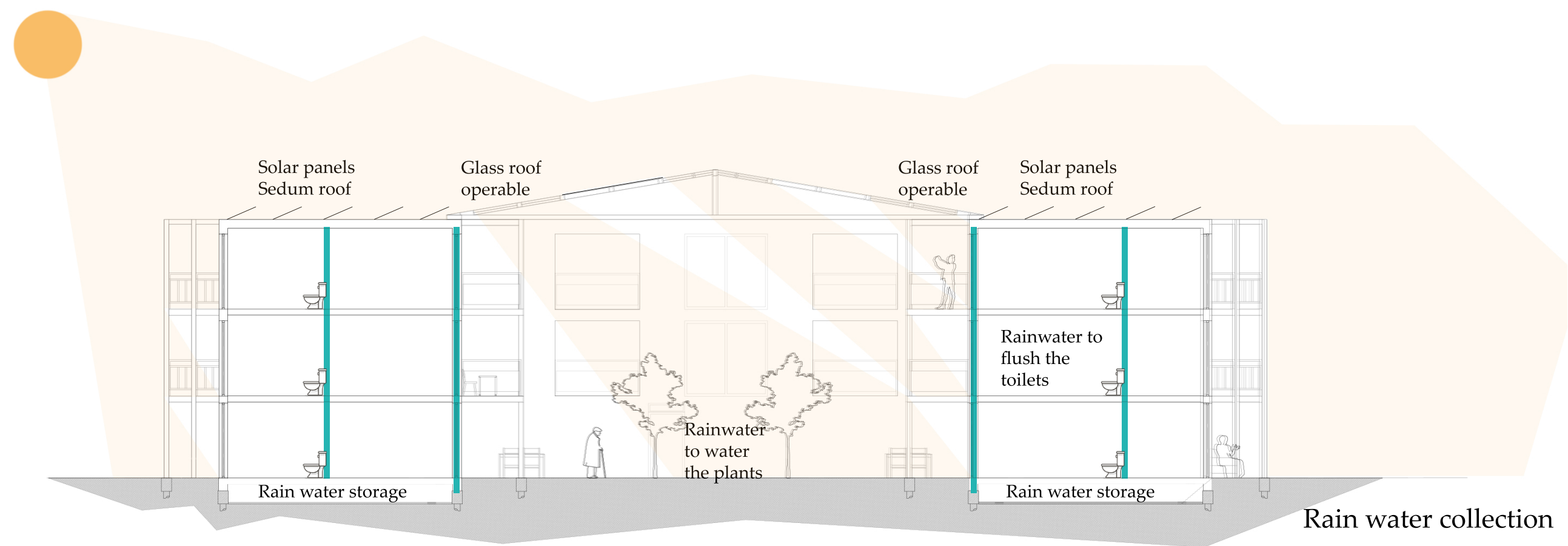
Section



Atrium space

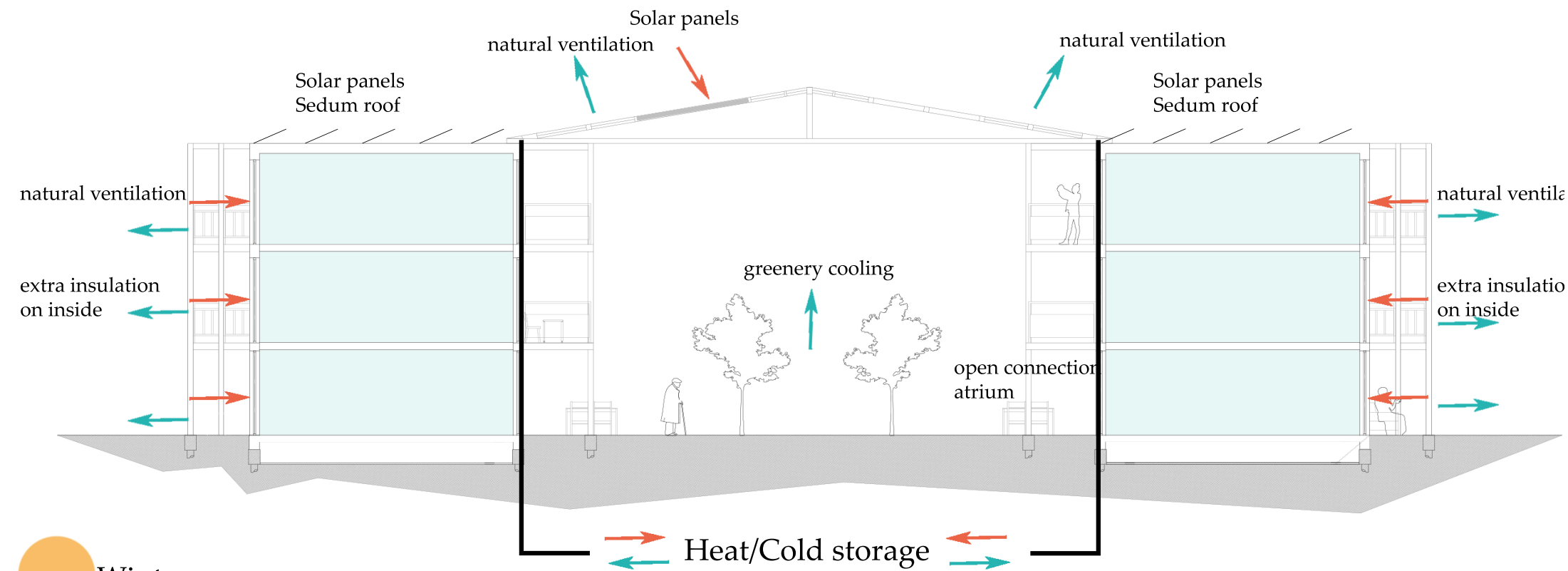


Future Proof

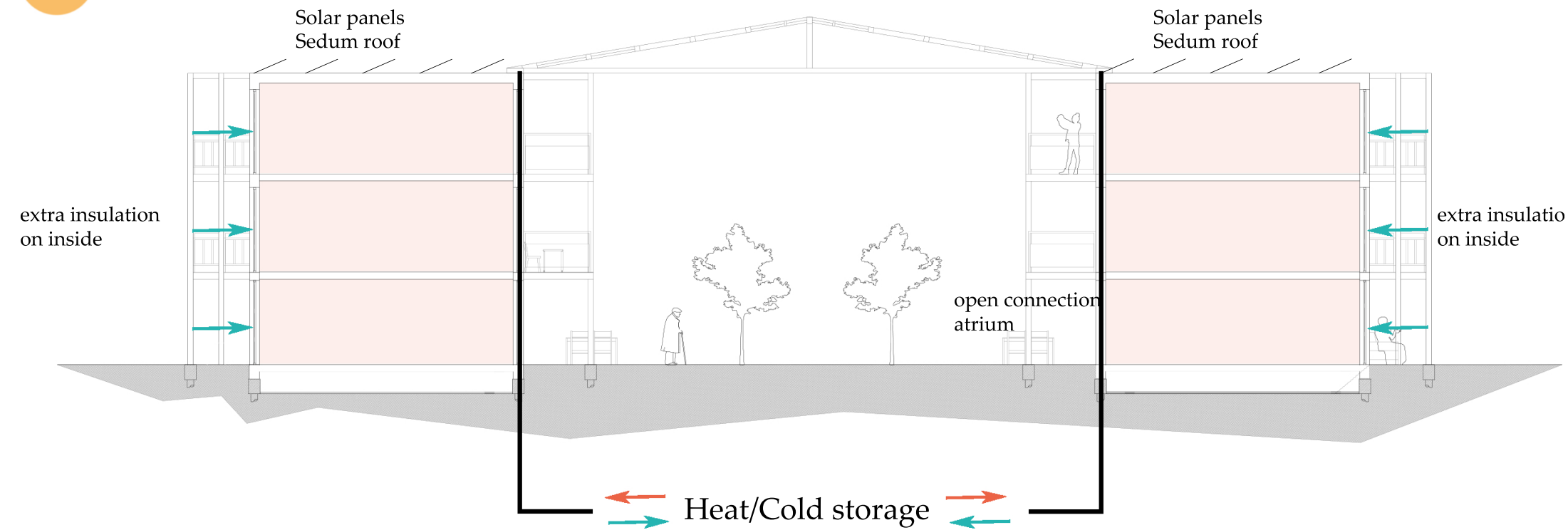


Future Proof

Summer

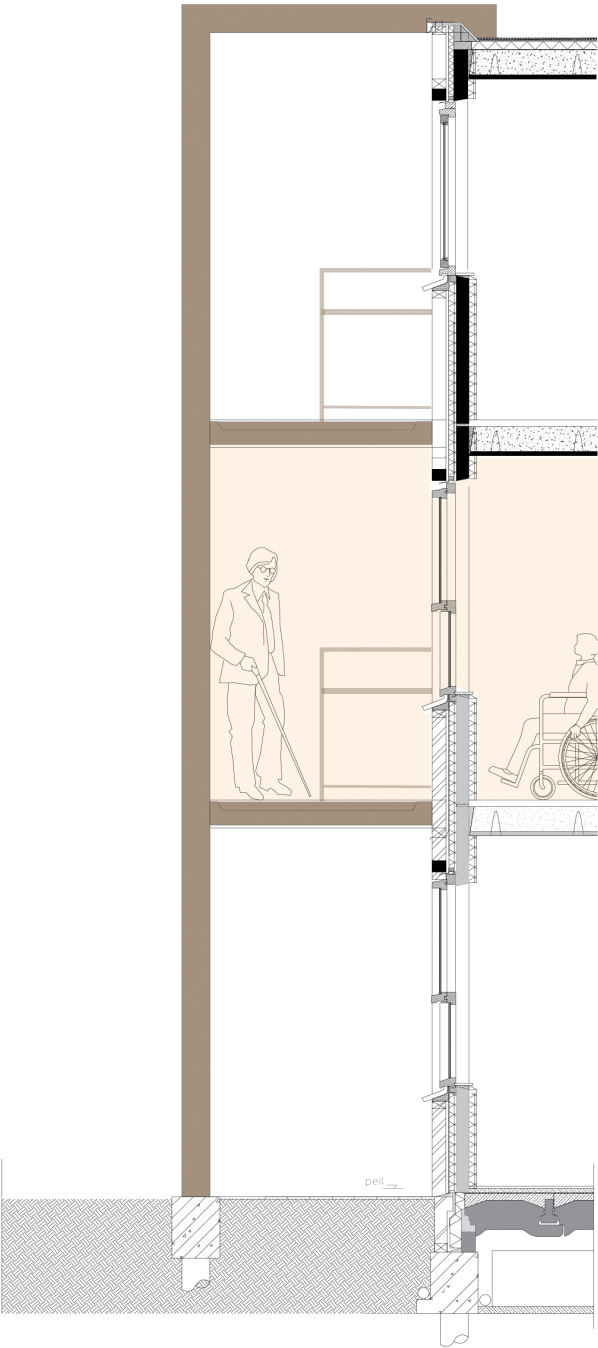


Winter

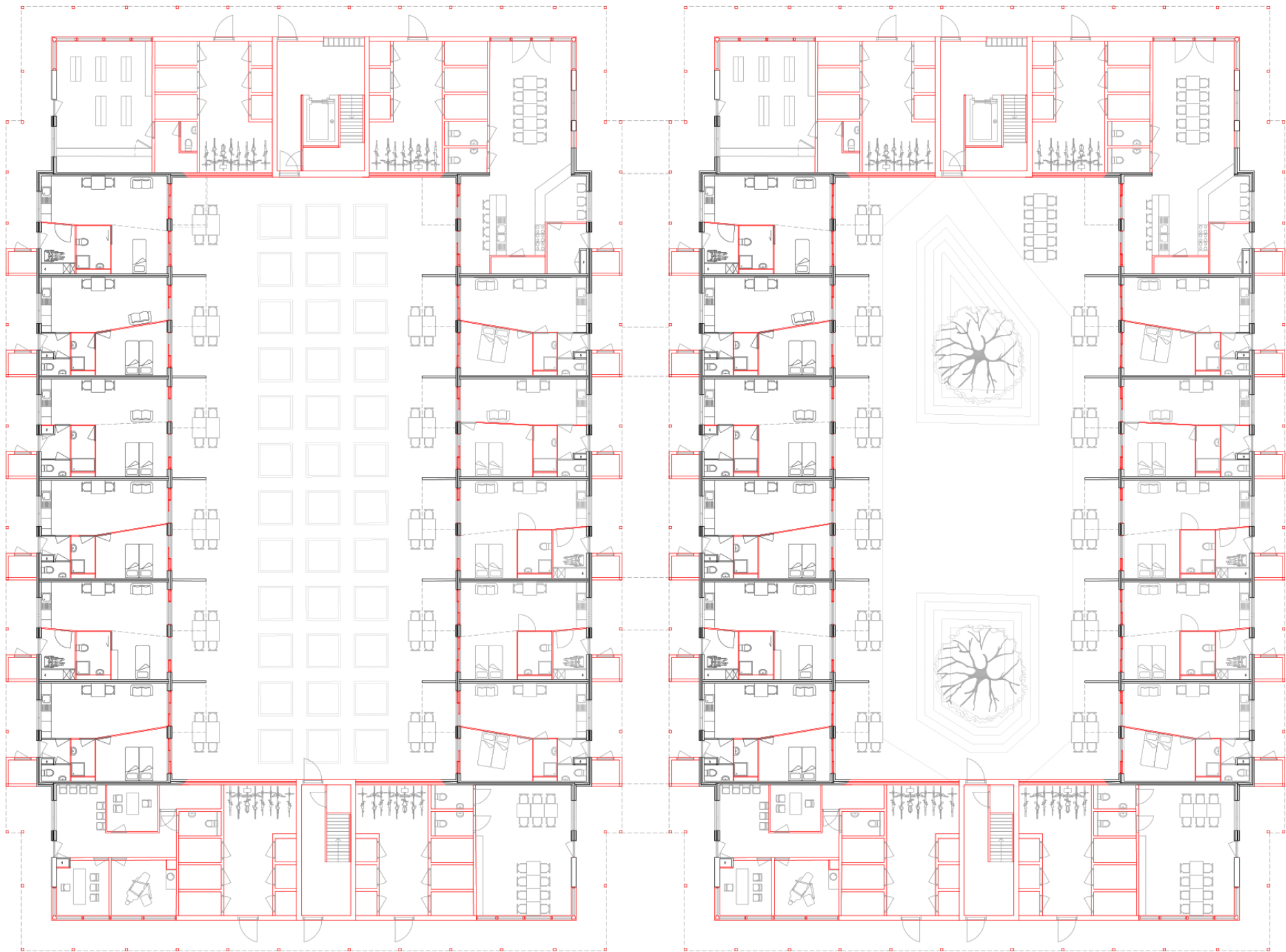
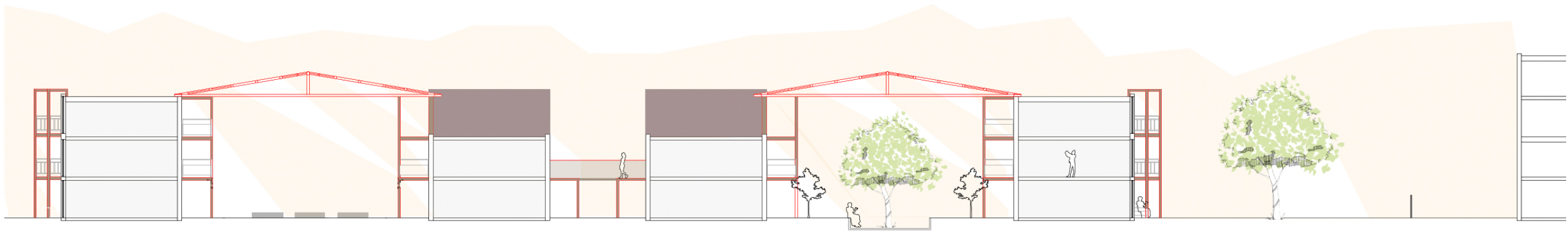


Summer - Winter situation

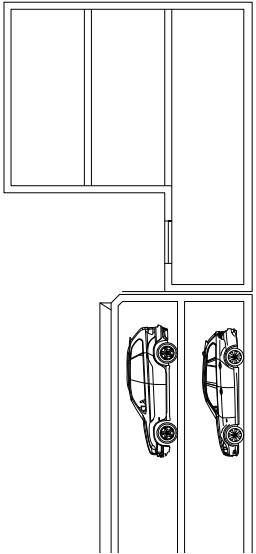
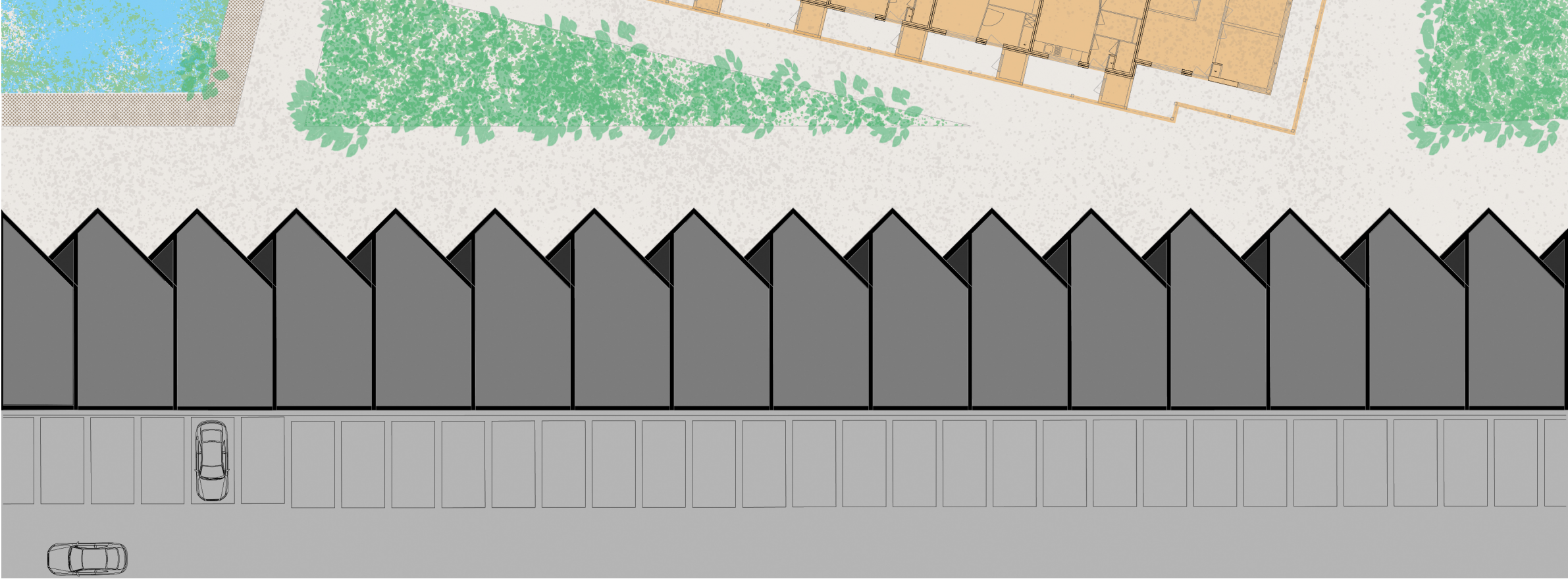
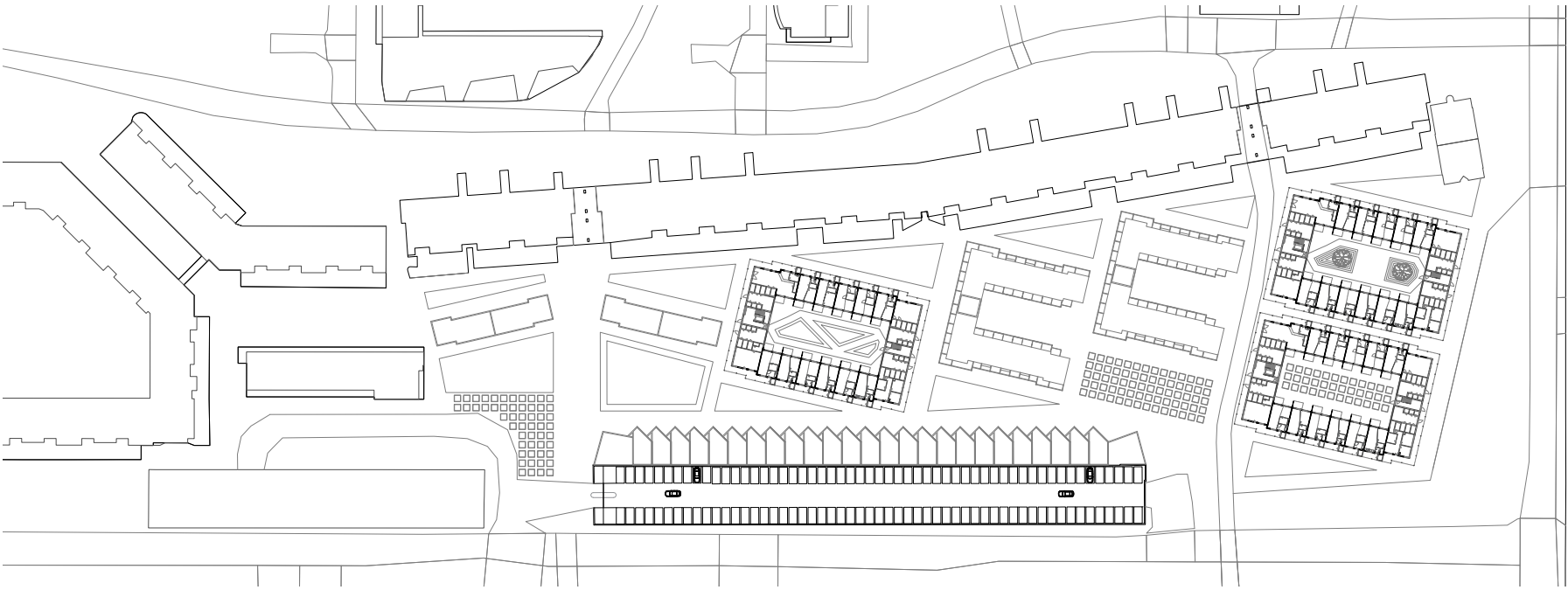
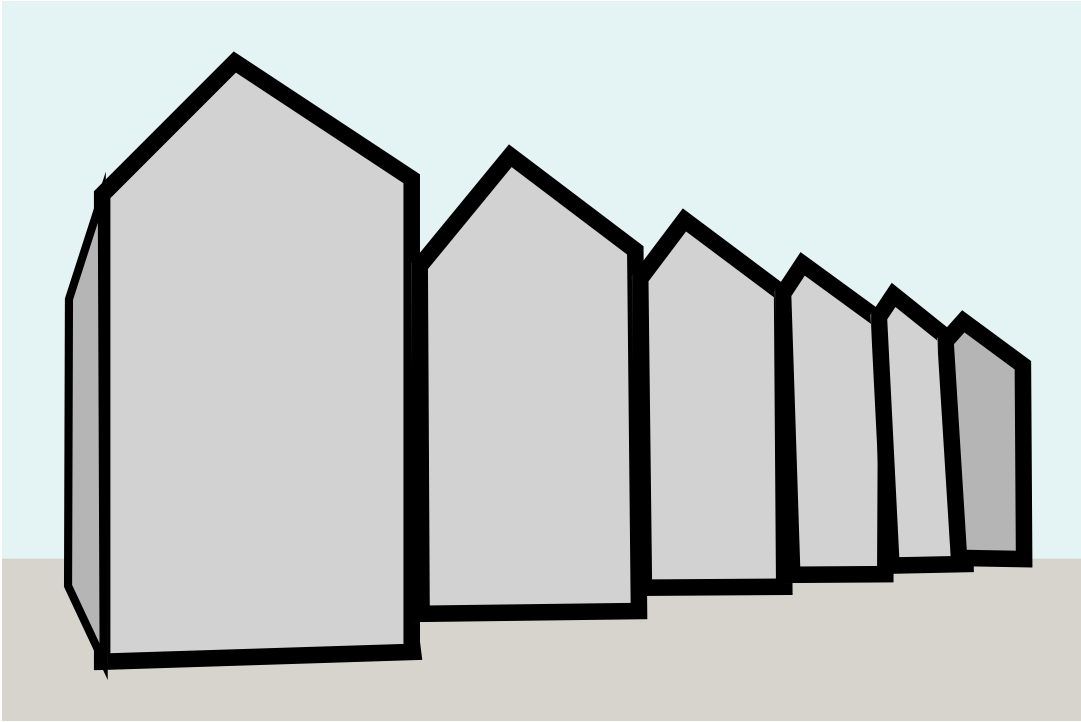
Front Façade





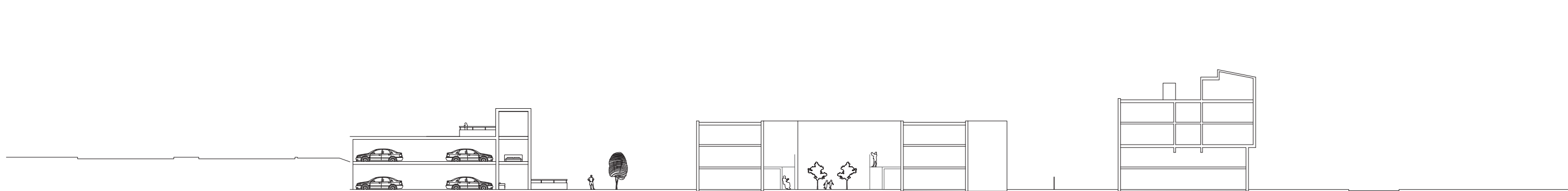
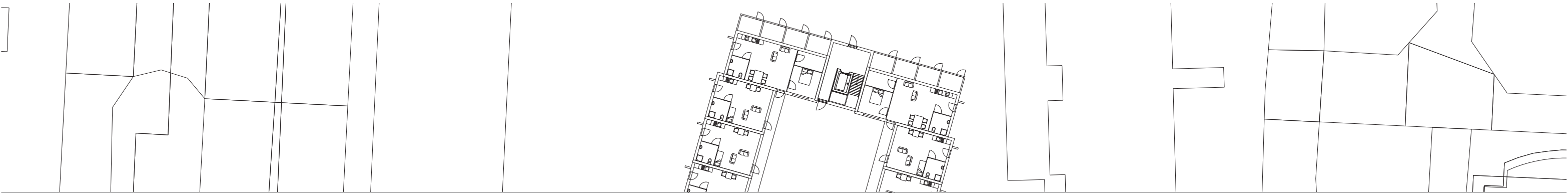
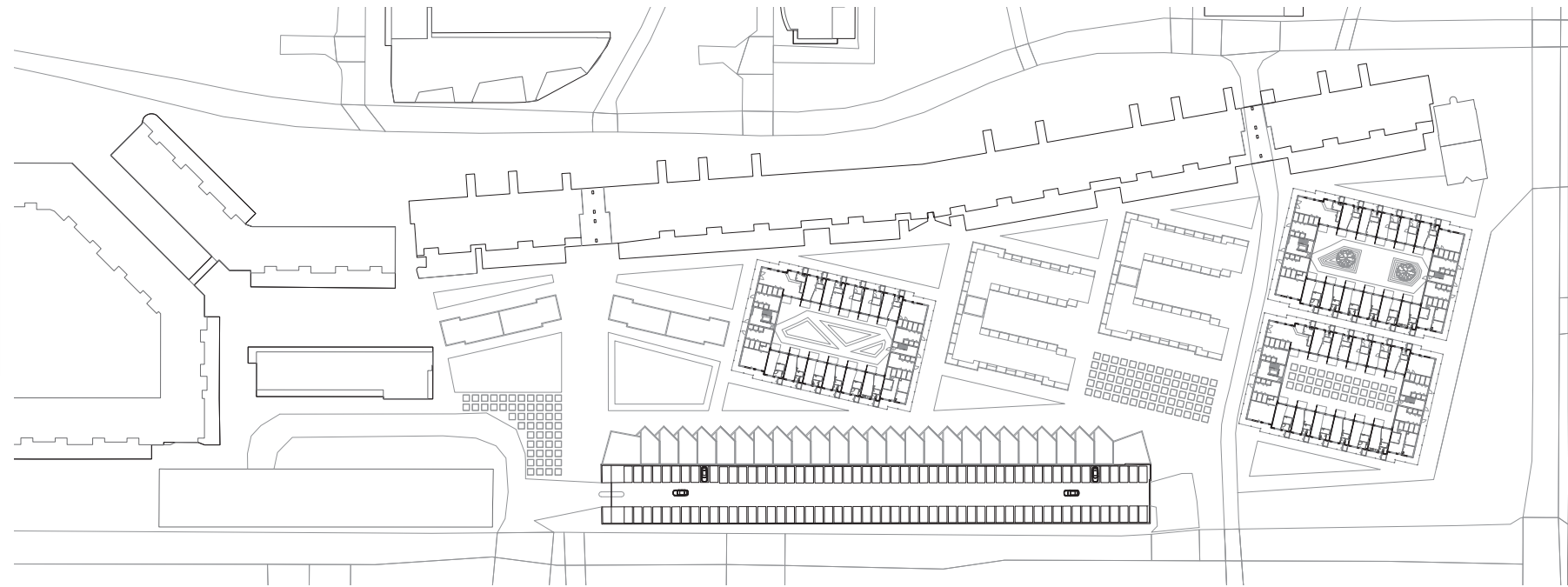
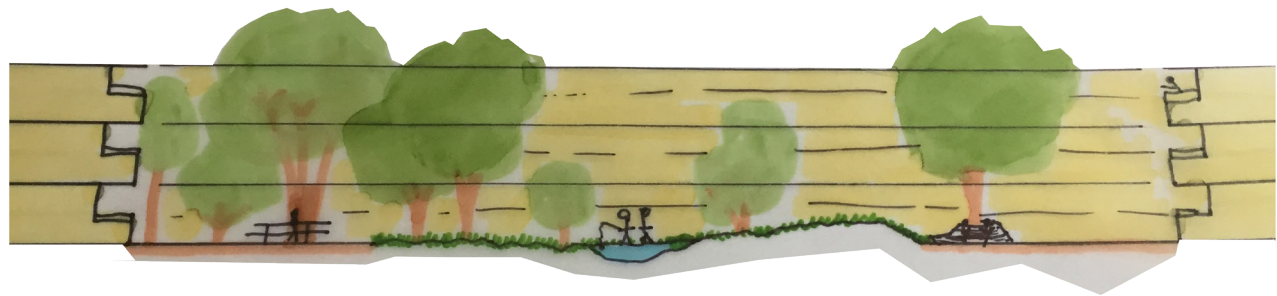


Design



Proposal garage - addition of small family housing units

Design



Smaller blocks - Open courtyard

Content

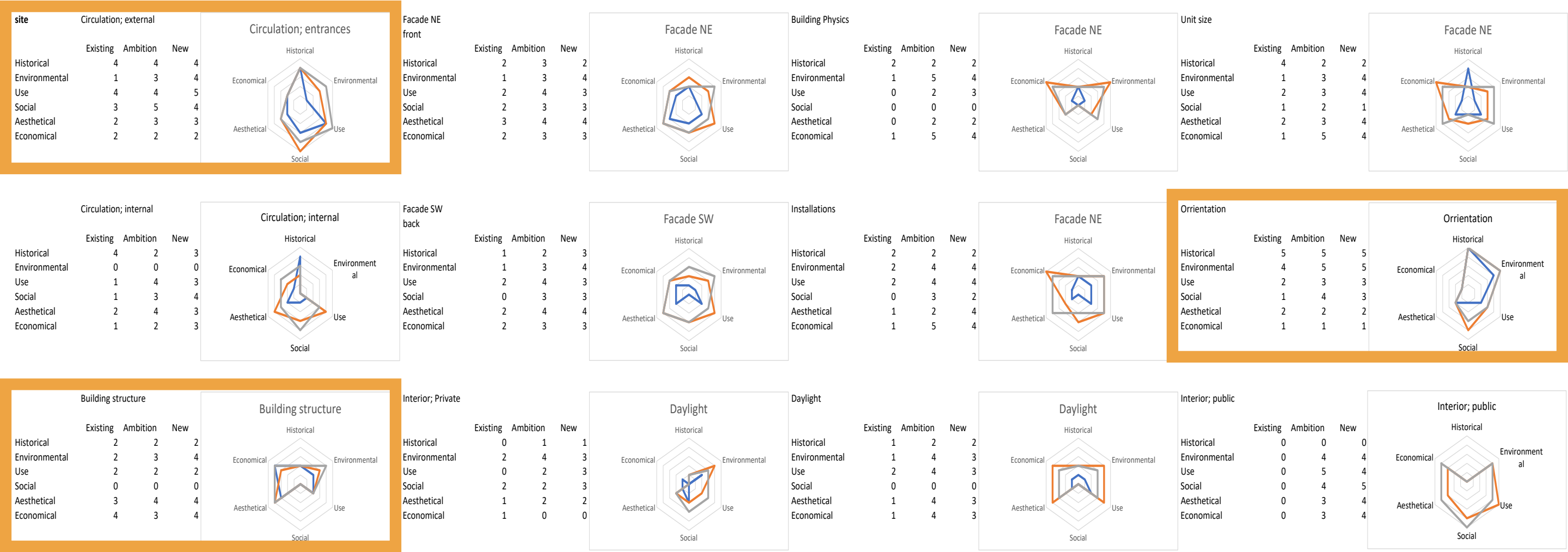
Introduction

Research

Design

Reflection

Reflection

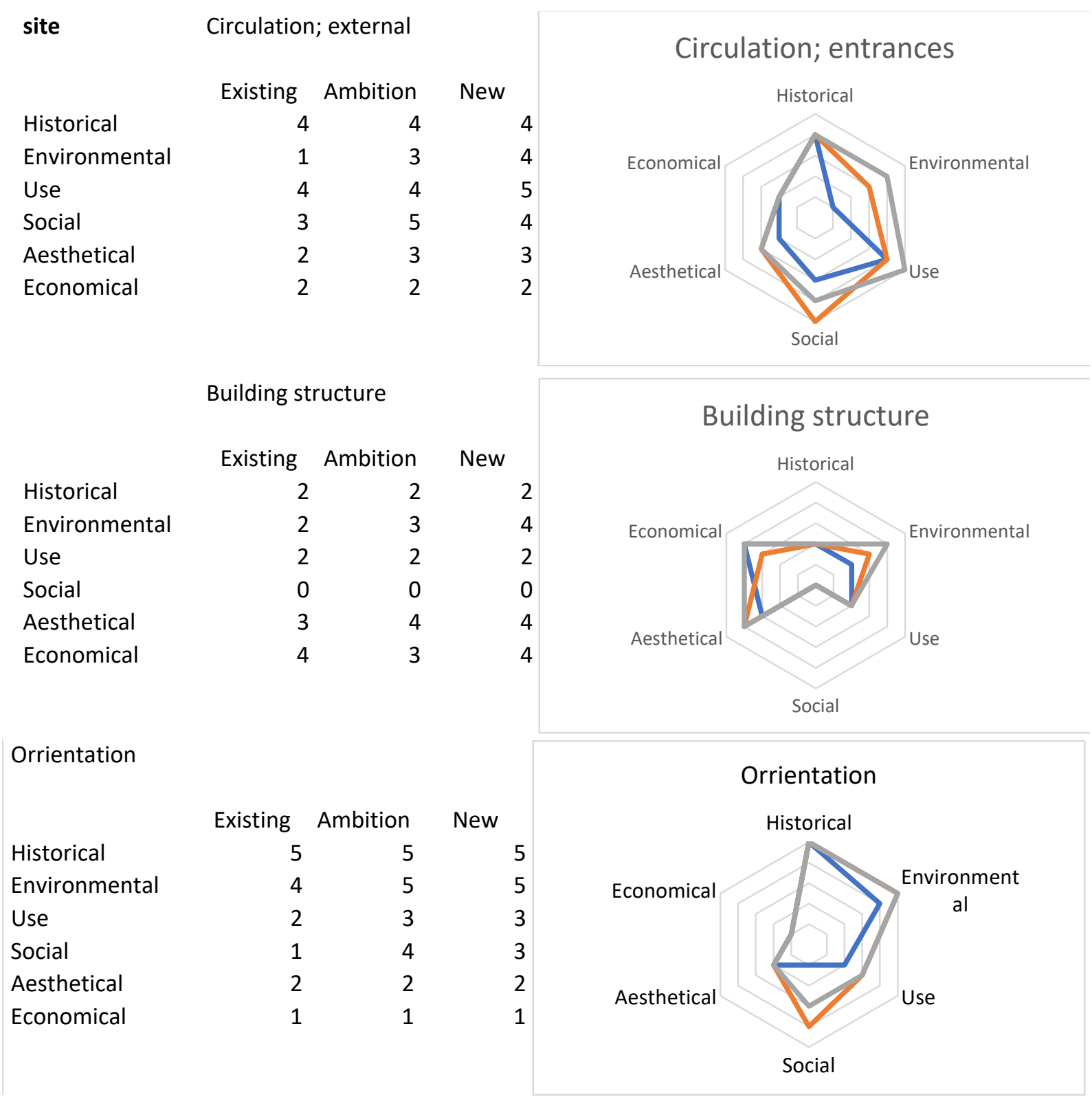


Spider diagram - ambitions, existing situation, design proposal

Spider Diagram

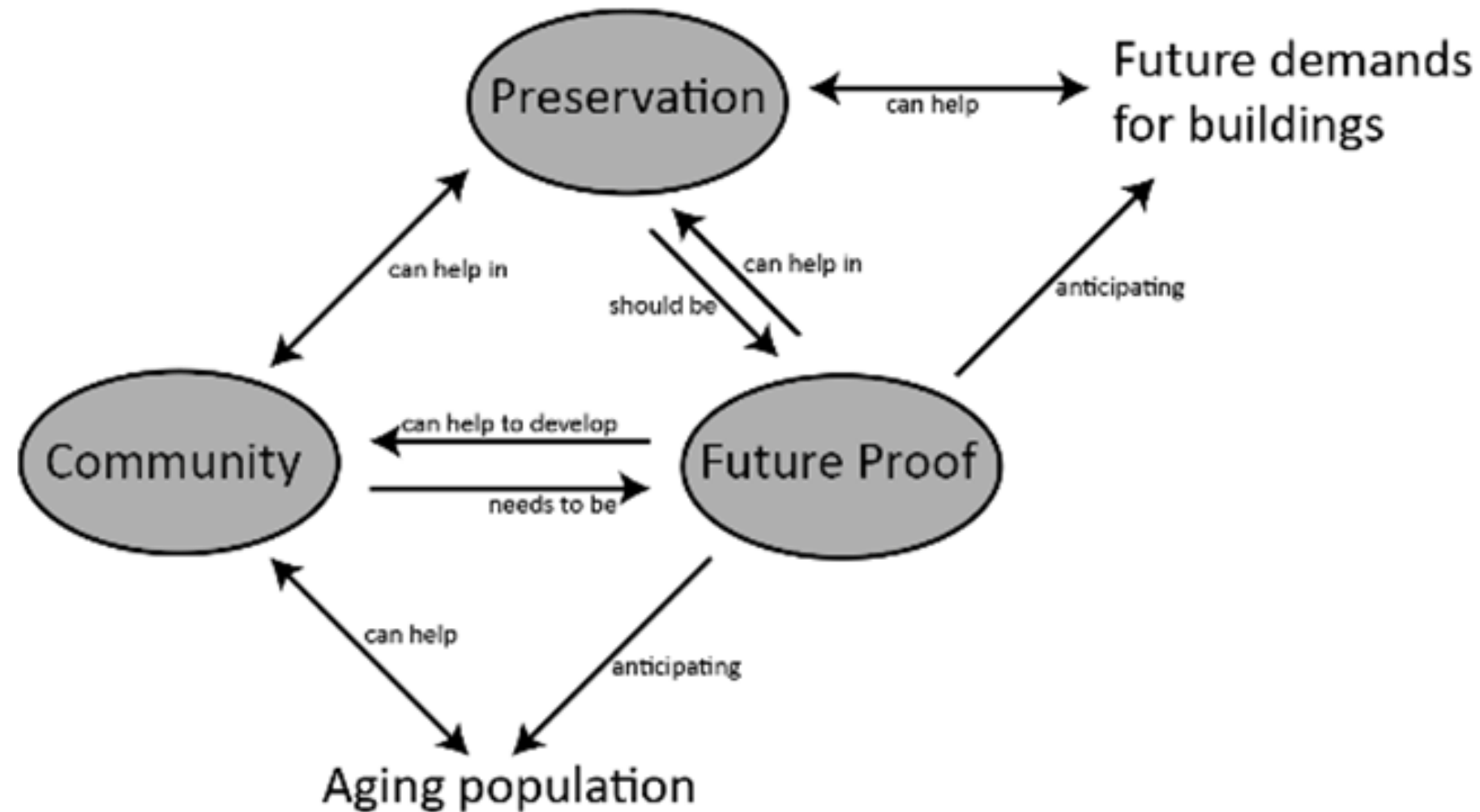
Existing situation

Preservation



Reflection

How can the residential area of Hoptille be **transformed** into sustainable **future proof** housing complexes, by strengthening the present social **community** and **preserving** its architectural values?

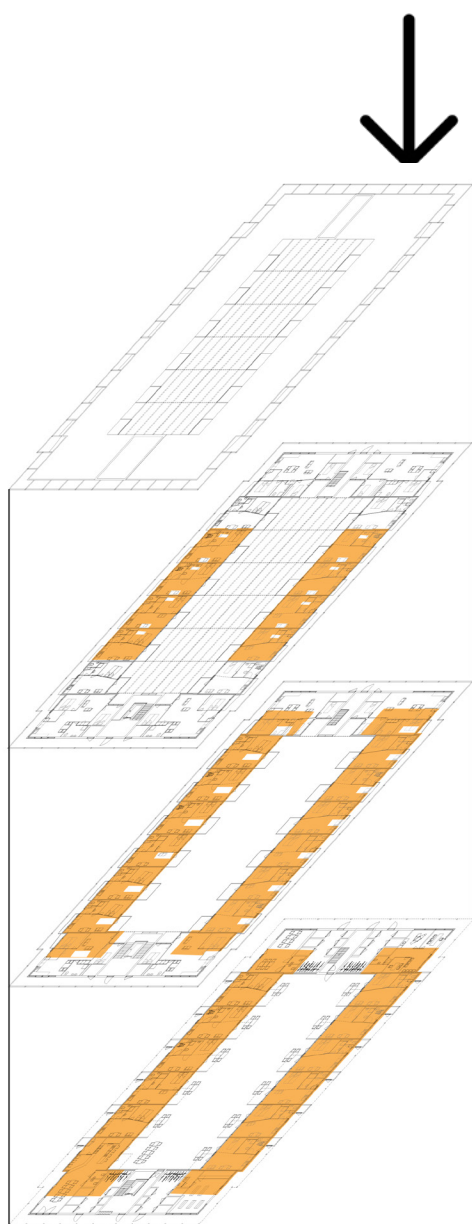


Conclusion

P

Preservation

What are the current architectural values and qualities of the Hoptille buildings and how can they be strengthened?

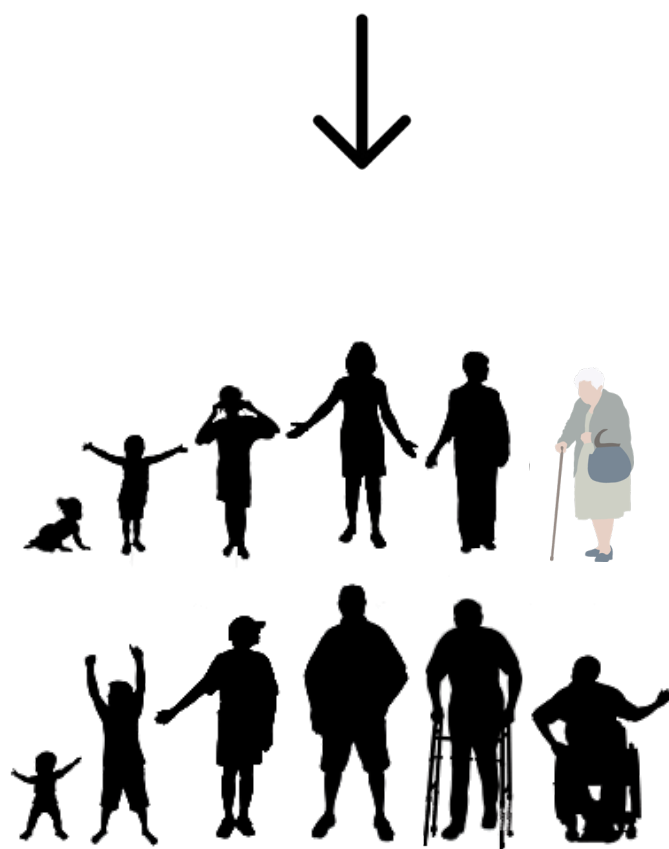


Reflection

C

Community

How can the existing community of Hoptille contribute in the social interaction and sustainable exploitation of the design?



F

Future Proof

How can the redevelopment of Hoptille anticipate on the future housing demands of the aging population and the future net zero energy ambition?

