

ASUNTOSUUNNITTELU TÄNÄÄN

MINIMIASUMINEN
JAETUT TILAT

HANNU HUTTUNEN
12.12.2016

GOLBAALIT HAASTEET

ILMASTON MUUTOS
SIIRTOLAISUUS
KAUPUNKIEN KASVU

KOTOISET HAASTEET

UUDET TEKNOLOGIAT
ENERGIA TEHOKKUUS
KESTÄVÄ RAKENTAMINEN
SOSIAALINEN KESTÄVYYS
ASUNTOMARKKINOIDEN POLARISOITUMINEN
NORMIEN PURKU, PROSESSIEN SUJUVOITTAMINEN

KESTÄVÄ RAKENTAMINEN



LARS-ERIK MATTILA
TULEVAISUUDEN KERROSTALO

AIKA ENNEN ELINKAARIAJATTELUA

*Asunto Oy Kapteeninkatu 11 esimerkkinä
ekologisesti kestävästä rakentamisesta*

*Diplomityö
Robin Landsdorff*

SOSIAALINEN KESTÄVYYS

ASUNTOSUUNNITTELU < > KAUPUNKISUUNNITTELU

KUN PUHUMME ASUMISESTA, PUHUMME AINA MYÖS KAUPUNKIRAKENTEESTA

JOKAINEN ASUINRAKENNUS RAKENTAA SAMALLA KAUPUNKIA JA VAIKUTTAA SIIHEN

JULKISET TILAT, PALVELUT, LIIKENNE

PIENET ASUNNOT

HINTA

ASUNTOKOON PIENENTÄMINEN

ASUNTOTUOTANNON TEHOSTAMINEN

SUURET TALOYKSIKÖT

MINIASUNNOT

MINIMIASUMINEN

RESILIENSSI



future centre with
unpredictable needs

helsinki scale 1:50 000



LIISA HEINONEN - LILY LIANG

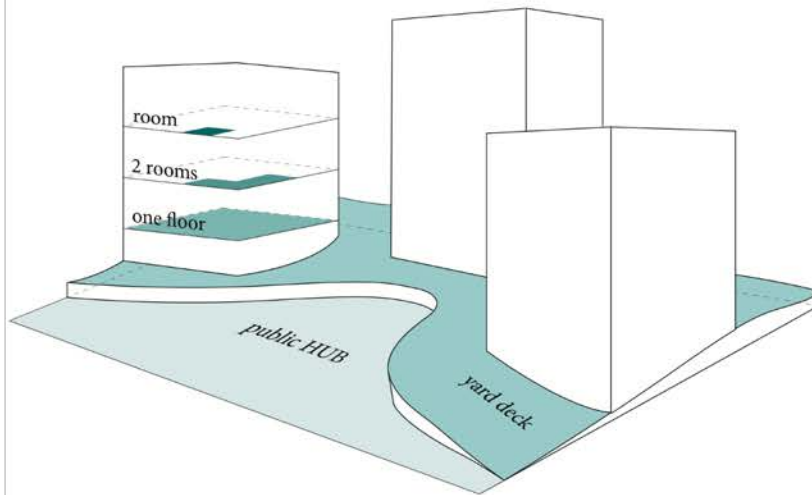
Levels + Community = LeCo House

student houses

LeCo house

now

isolated	----->	different levels of community living
stiff layout	----->	personal flexibility, many options
public & private space separate	----->	public + semi open + private spaces

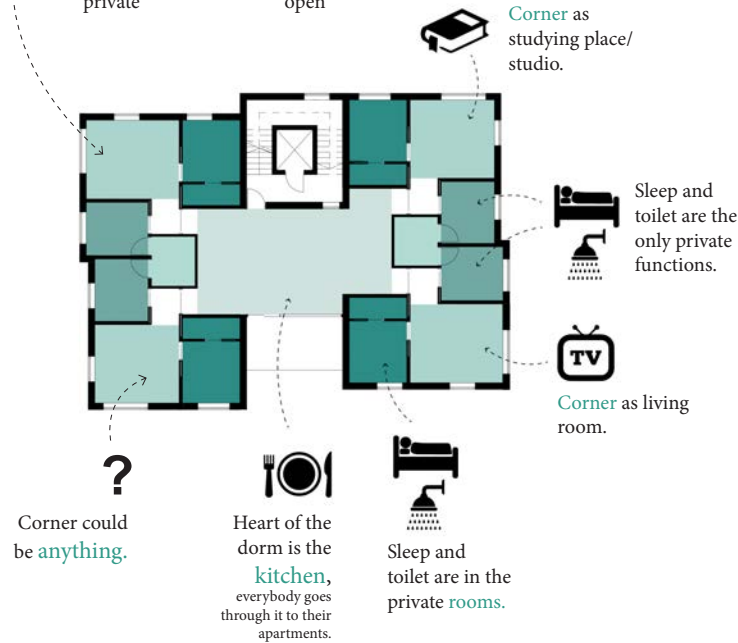


All shades of community

– From privacy level of one person to the level of the whole Keski-Pasila.



Shared corner is the key of the design. It makes the building flexible and offers new ways of living.



Room type 1, one person room with shared toilet. Even though a shared toilet, everyone has a private door to the bathroom.



Room type 2, room with own toilet can be used as parents'/couples' room. You can fit a double bed and move storage outside to the corner.



Friend apartment, corner as an entrance / working studio for two. Apply this with your friend and get to know others with him/her!



Family apartment, corner as a living room for a family.



Toilets can offer flexibility. If a family lives next door, you can have your own toilet in type 1.

Massing highlights the corners. The building is constructed by mirroring only one floorplan.

At least 8 people in one floor/dorm
(each room has only one person, there might be more, couples)

One floor area: **218m²**

Floor efficiency: **27m² / person**

Efficiency of the whole building

11 floors (including storage): **33m² / person**

Room types:

bigger $8\text{m}^2 + \text{own toilet } 3\text{m}^2 = 11\text{m}^2$

smaller $7\text{m}^2 + \text{shared toilet } 5\text{m}^2 = 12\text{m}^2$

corner **15m² or 16m²**

kitchen **44m²**

At least 9 people in one floor/dorm
(one family or couple in each floor)

Floor efficiency: **24m² / person**

Efficiency of the whole building

11 floors (including storage): **30m² / person**

In each building:

storage space: **230m²**

laundry room: **34m²**

bicycle storage: **93m²**

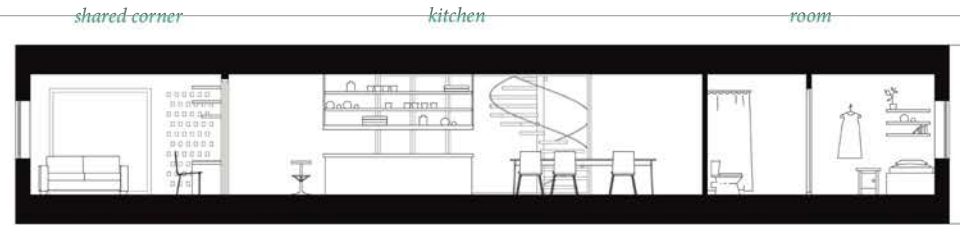
sauna + changing room + club room: **54m²**

In total 189 students (9 people in one floor)

Floor area in 3 towers: **5920m²**

Area of the HUB: **1190m²**

Building area in total: **7110m²**

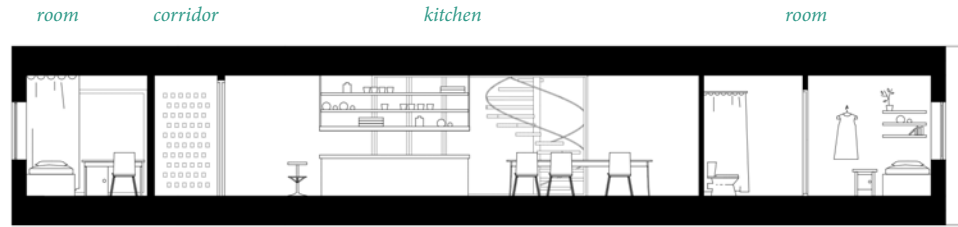


Section A-A' 1:100



Floorplan, typical floor, 1:100

Corner can be transformed into a third room.



Section A-A', alternative room layout, 1:100

At least 12 people in one floor/dorm

One floor area: 218m^2

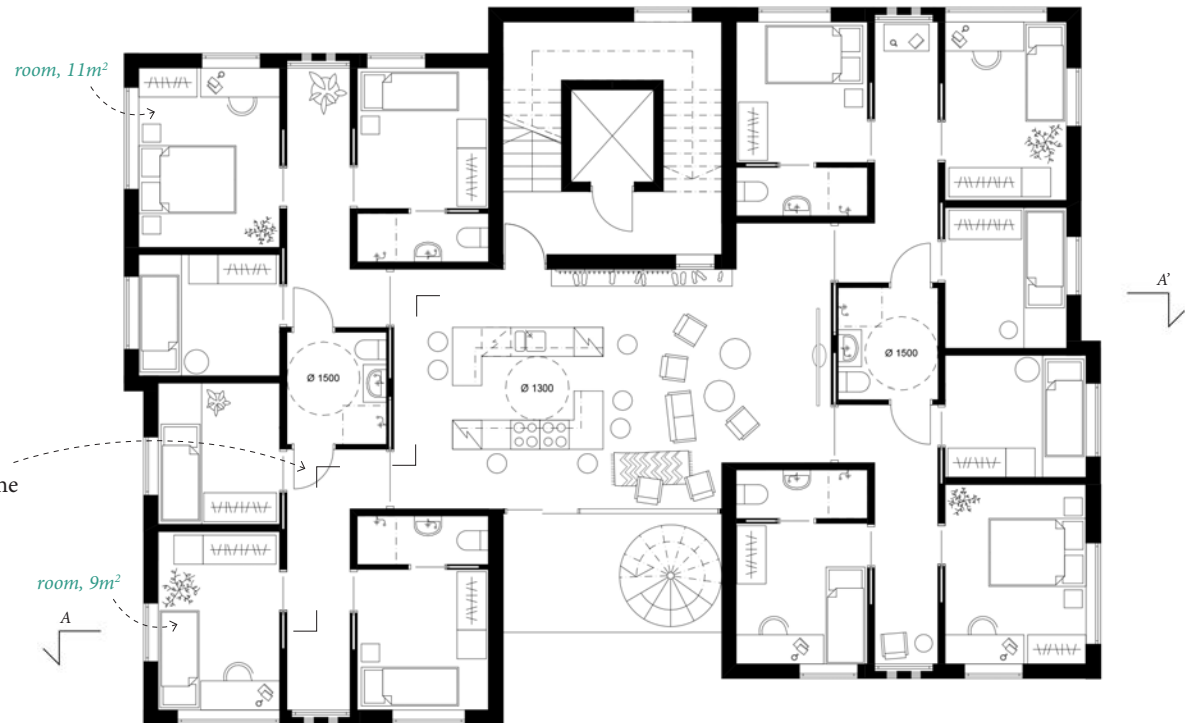
Floor efficiency: $18\text{m}^2 / \text{person}$

Efficiency of the whole building
11 floors (including storage): $22\text{m}^2 / \text{person}$

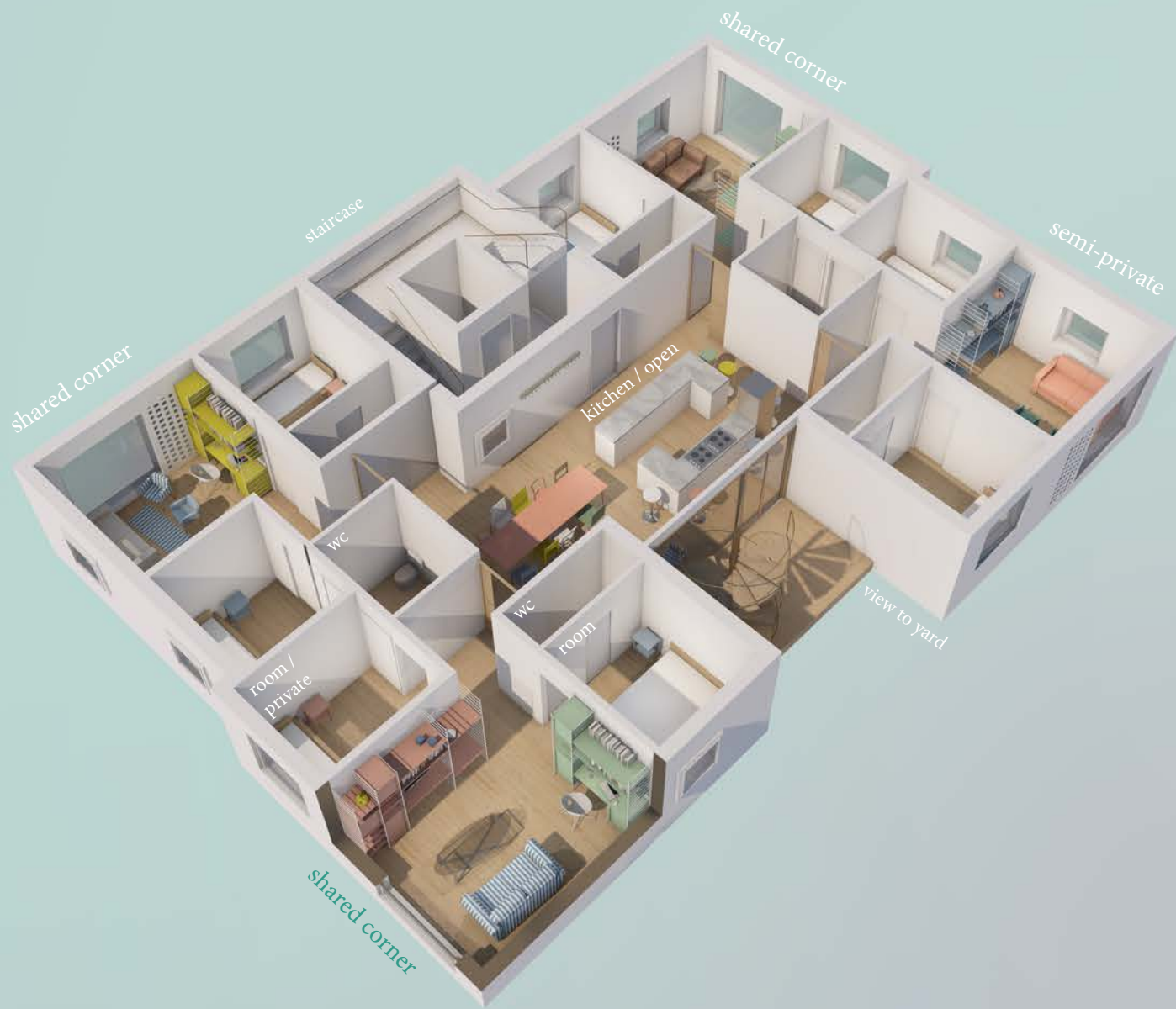
Room types:

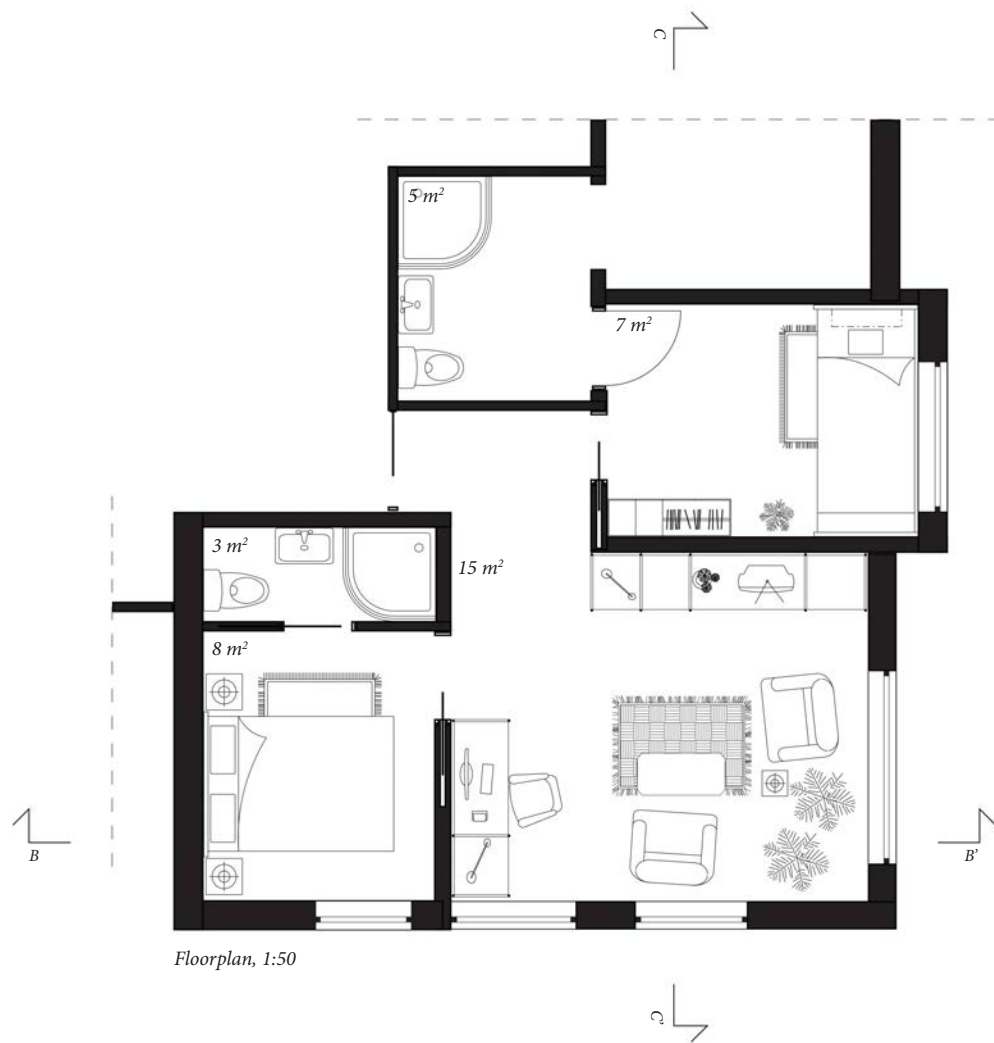
bigger	$8\text{m}^2 + \text{own toilet } 3\text{m}^2 = 11\text{m}^2$
smaller	$7\text{m}^2 + \text{shared toilet } 5\text{m}^2 = 12\text{m}^2$
corner room bigger	$11\text{m}^2 + \text{shared toilet } 5\text{m}^2 = 16\text{m}^2$
corner room smaller	$9\text{m}^2 + \text{shared toilet } 5\text{m}^2 = 14\text{m}^2$
kitchen	44m^2

Toilet doors switched to the corridor.

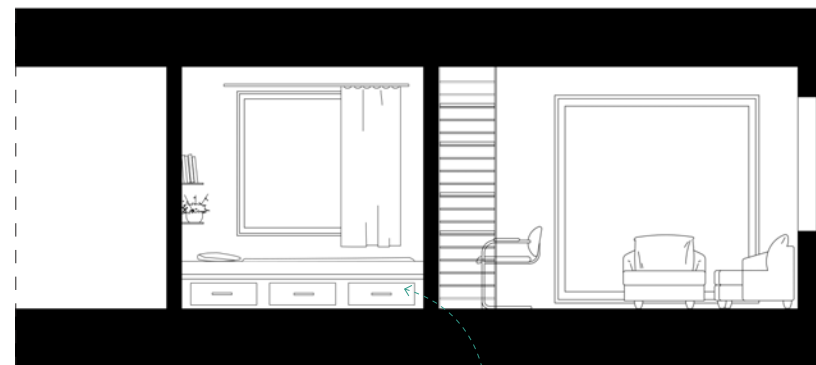


Floorplan, typical floor with alternative room layout, 1:100



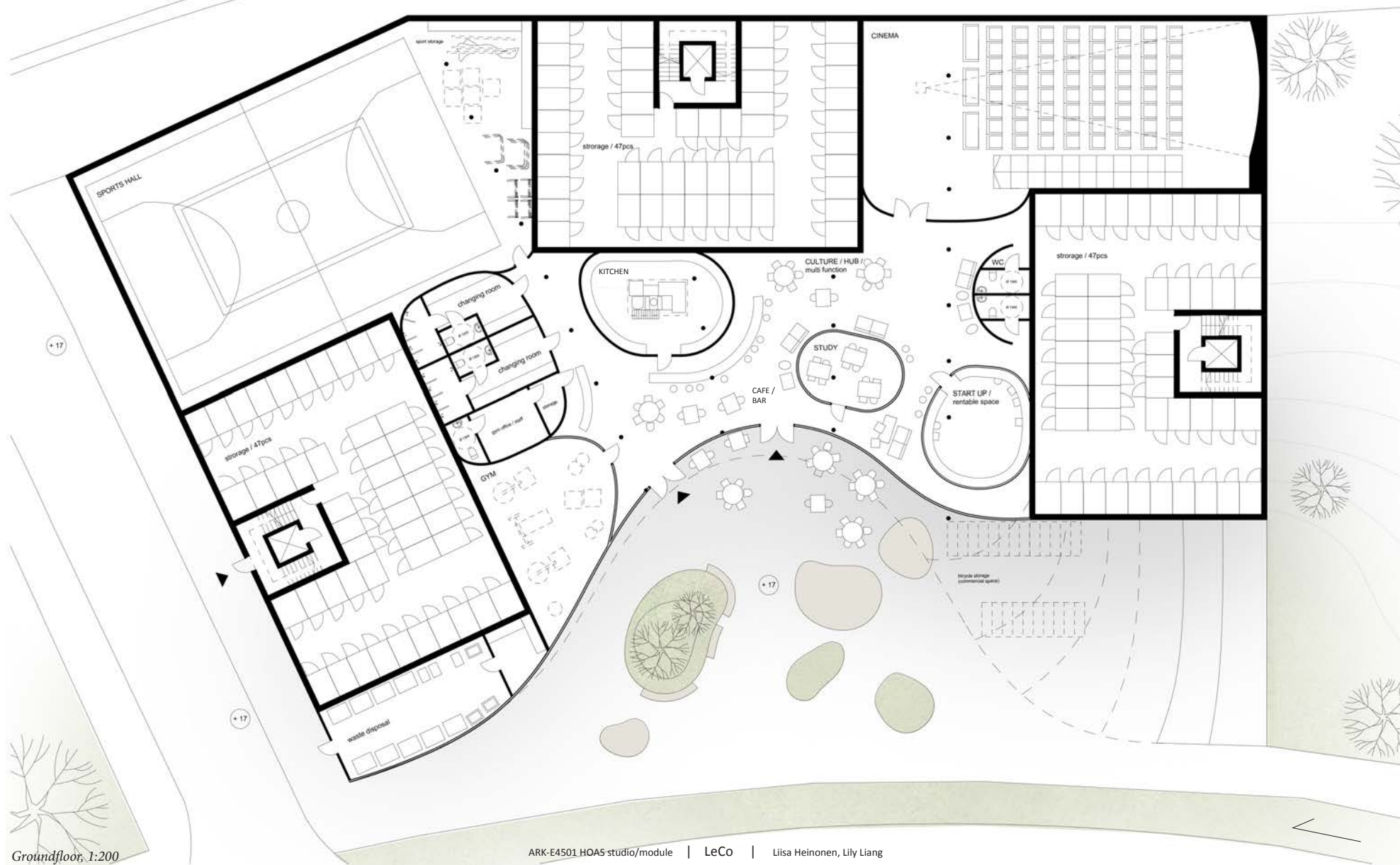


DIY shelves can be transformed by the students.
Modular structure is flexible in many life situations.



A removable *build in bed*, just like a
windowsill. It contains extra storage.







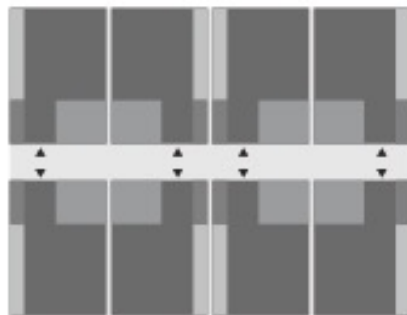




ALENA PARSHINA - SARA MUTANEN

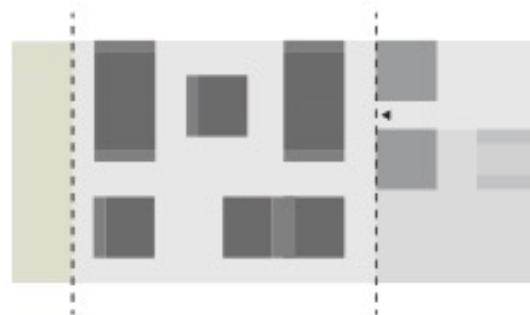


traditional



$22.5 \text{ m}^2 \times 8 = 180.0 \text{ m}^2$ private
 25.0 m^2 shared

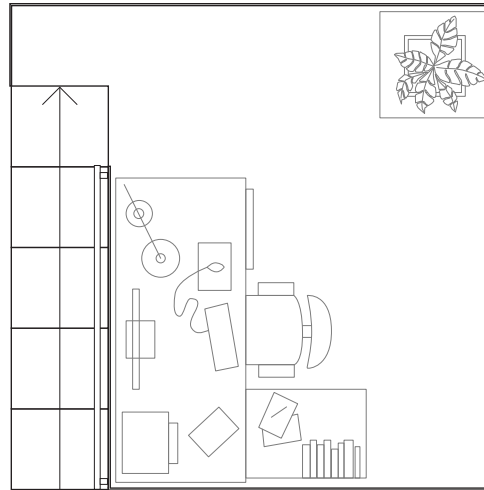
more flexible and communal ?



$5.5 \text{ m}^2 \times 8 = 45.0 \text{ m}^2$ private
 160.0 m^2 shared

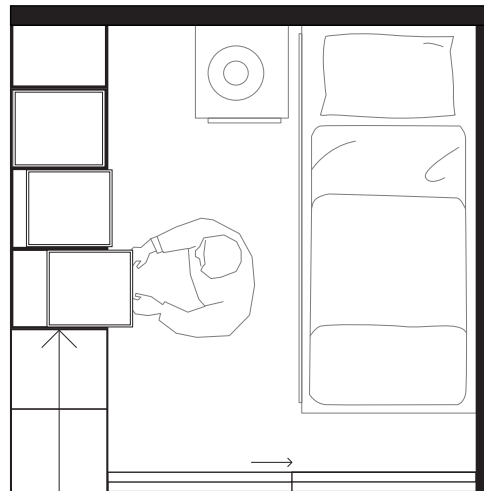
private - shared



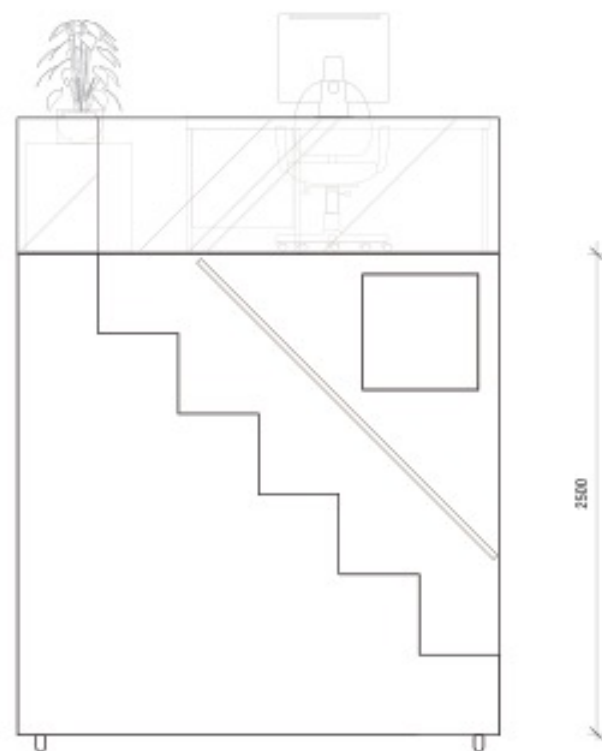


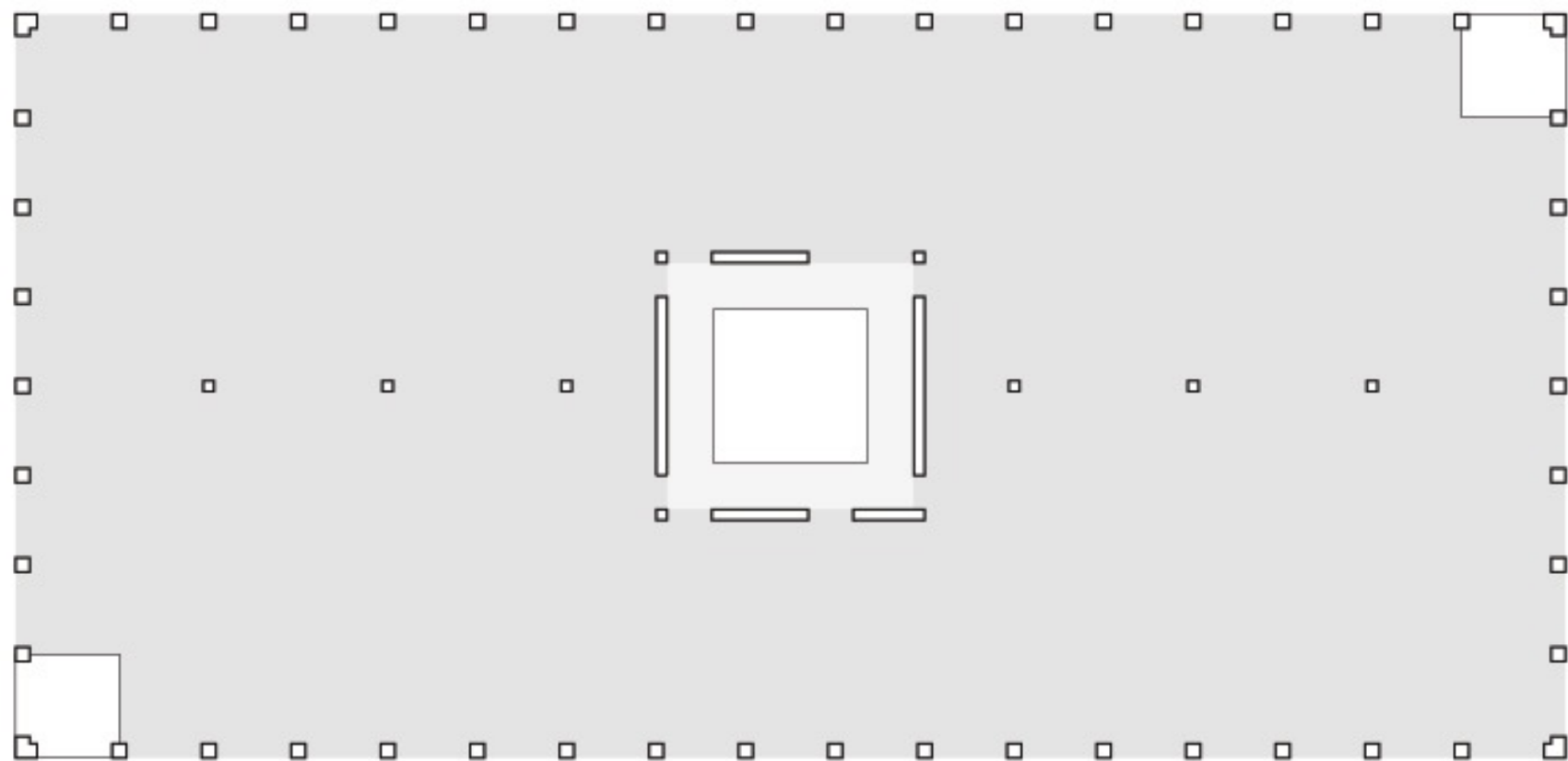
single cube
 $5.5 \text{ m}^2 + 4.5 \text{ m}^2 = 10.0 \text{ m}^2$

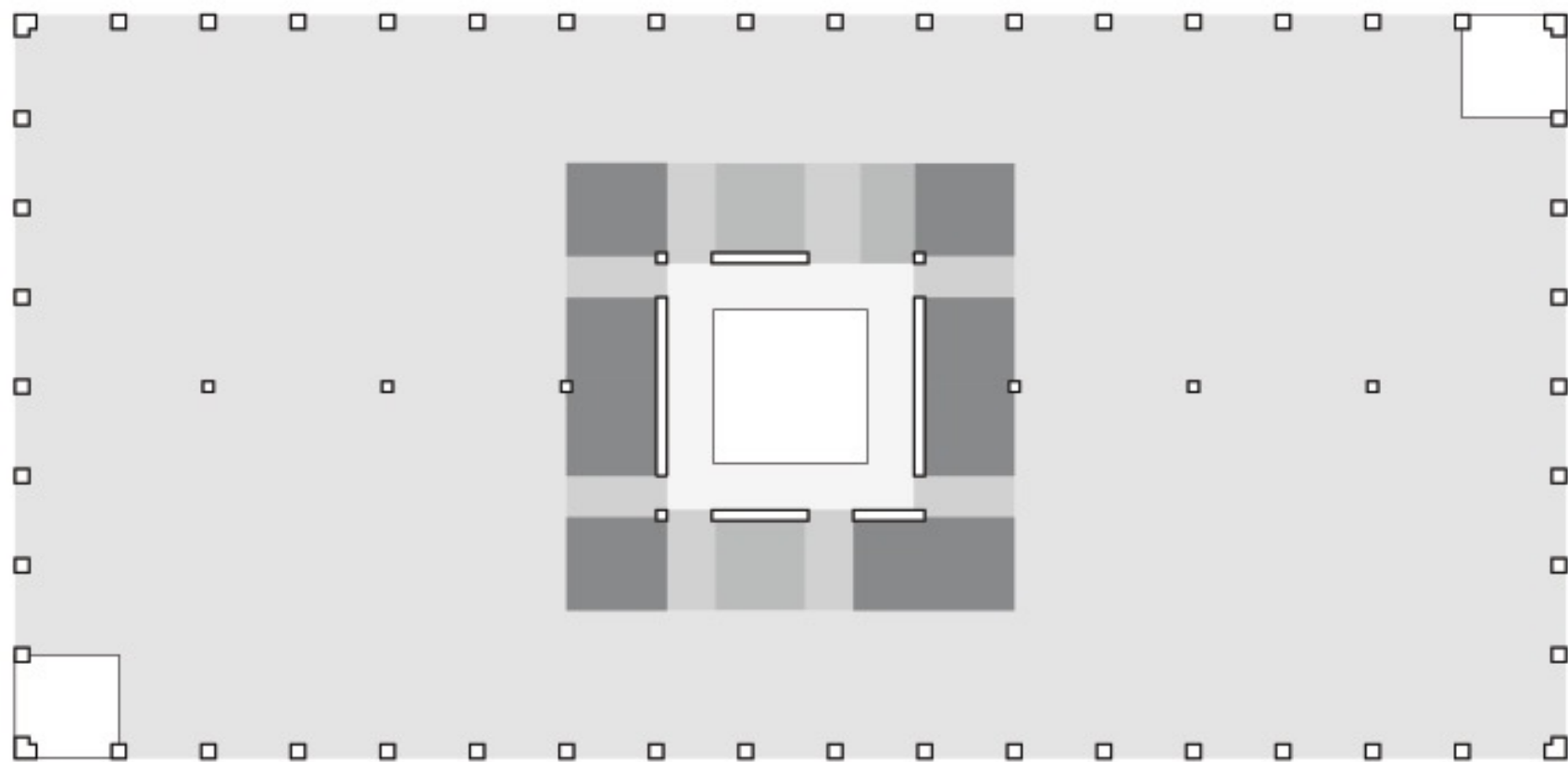
2500



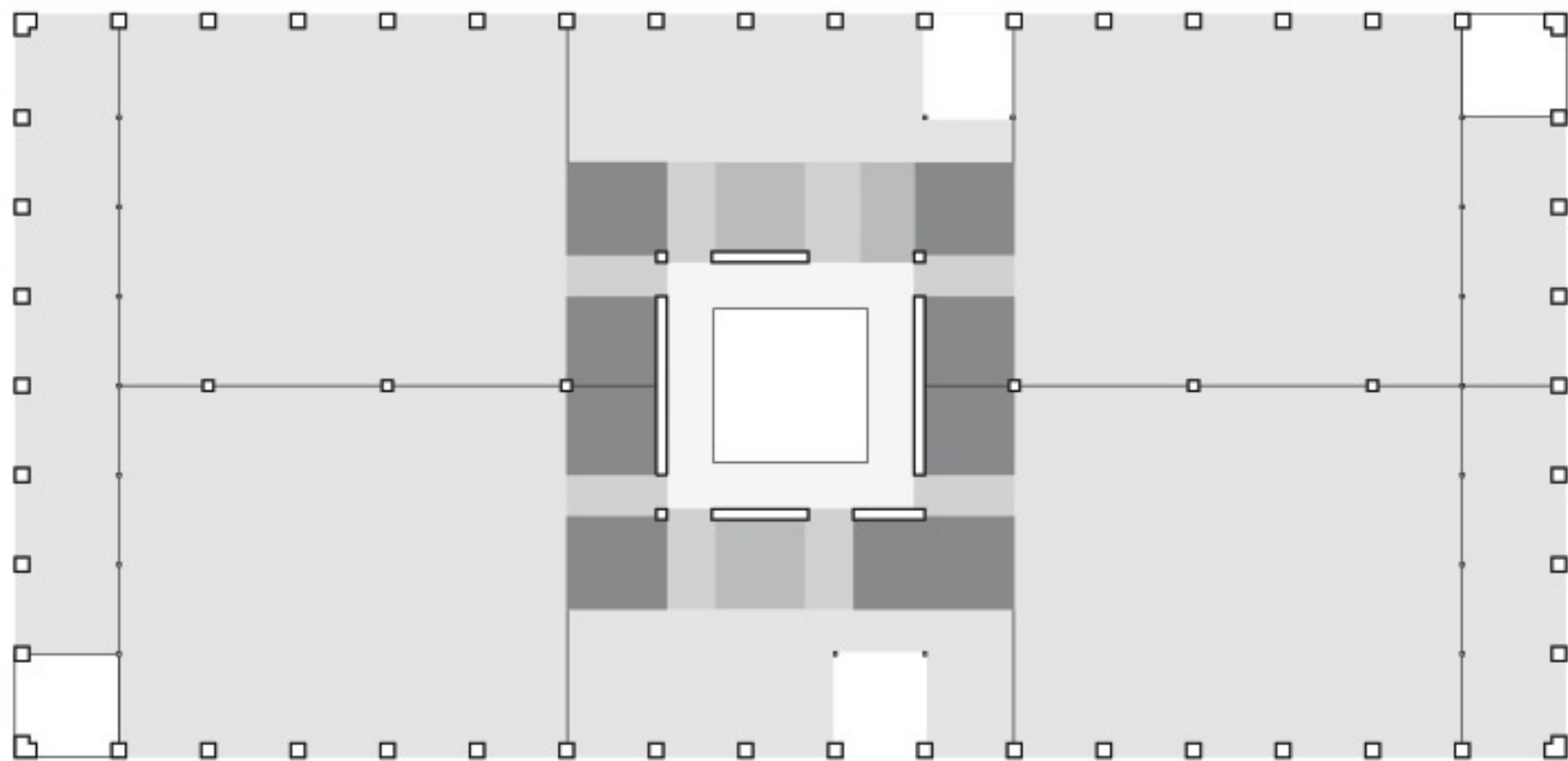
2500



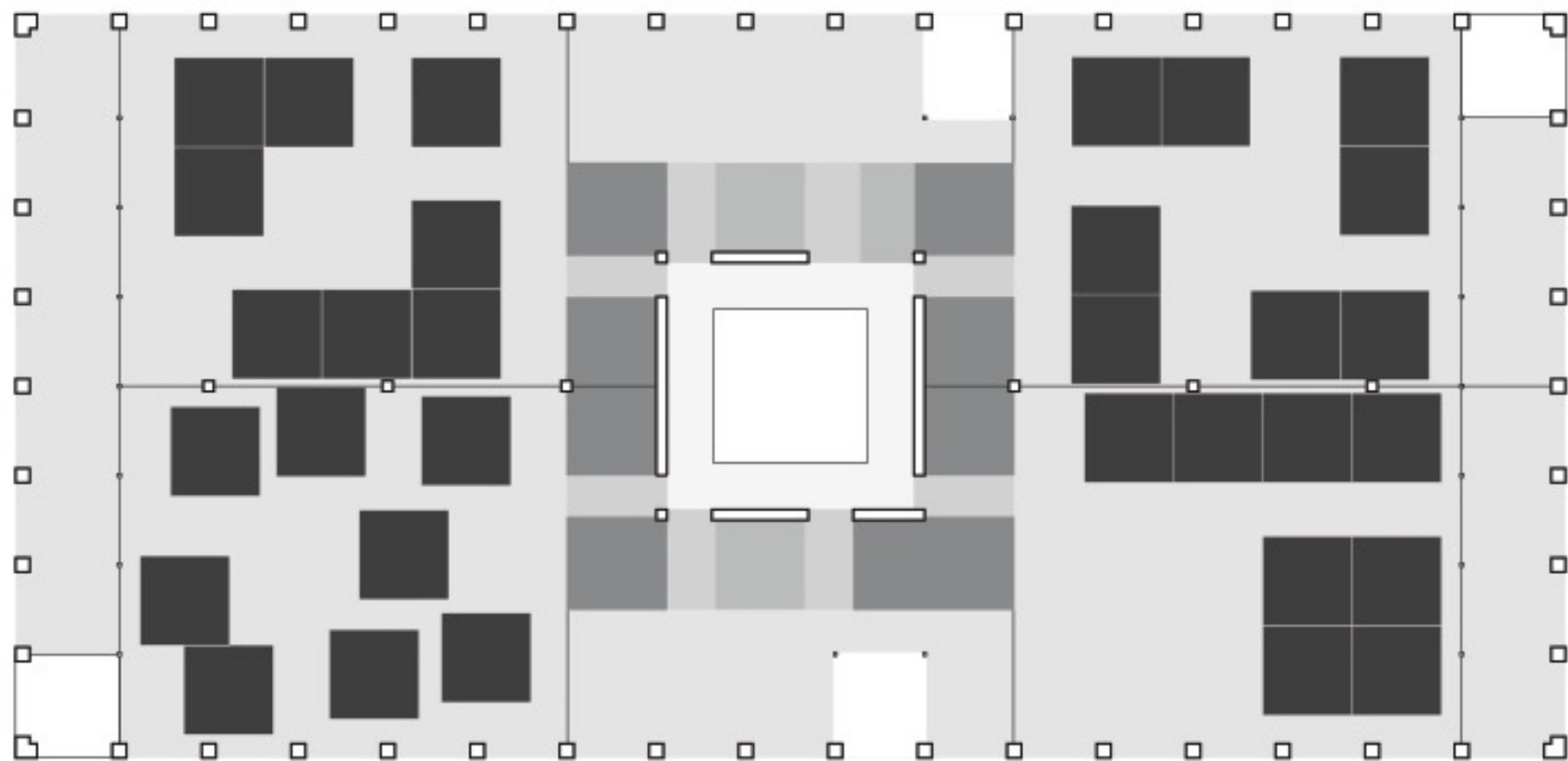




installations in the middle



possible partitions



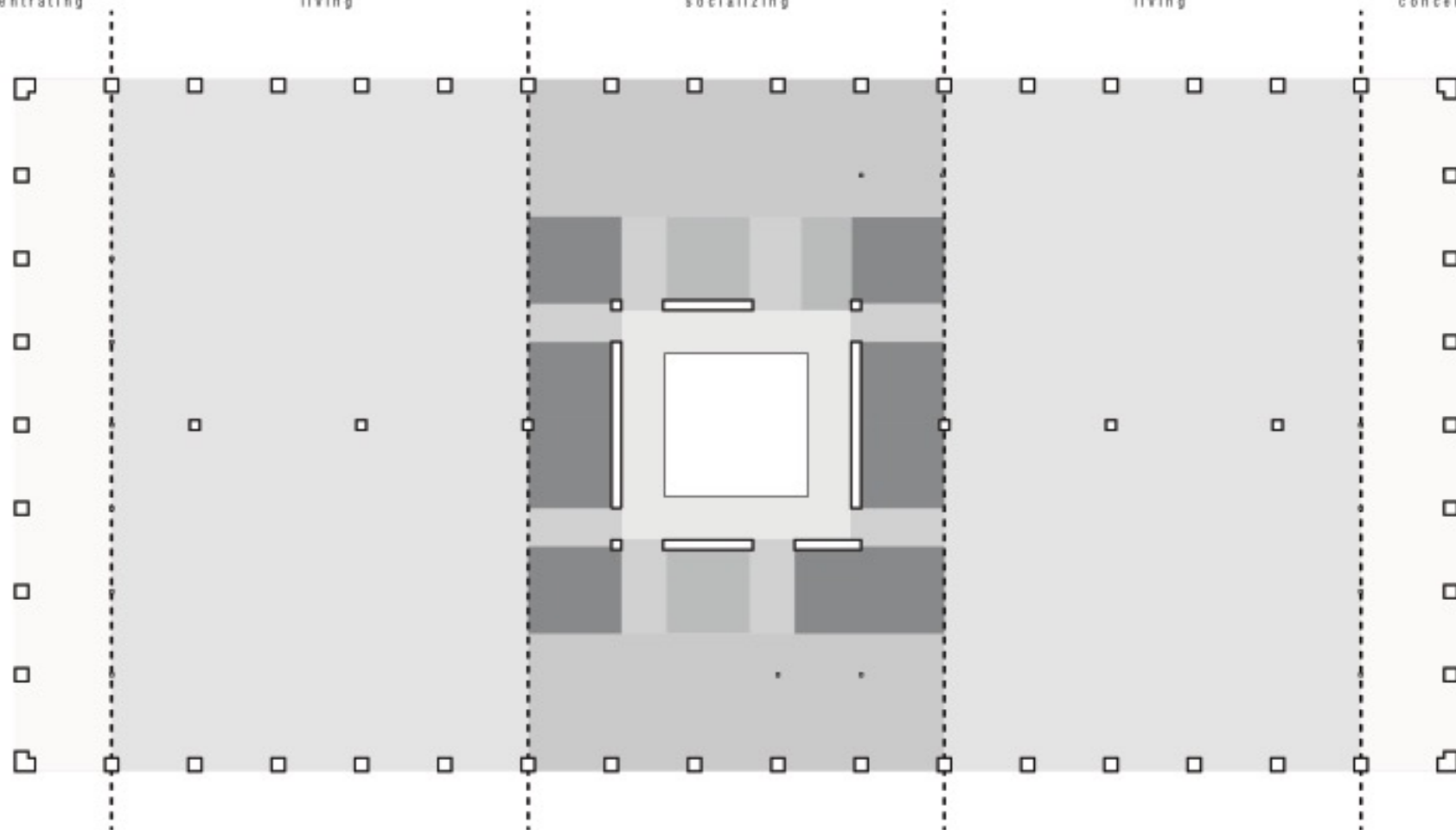
concentrating

living

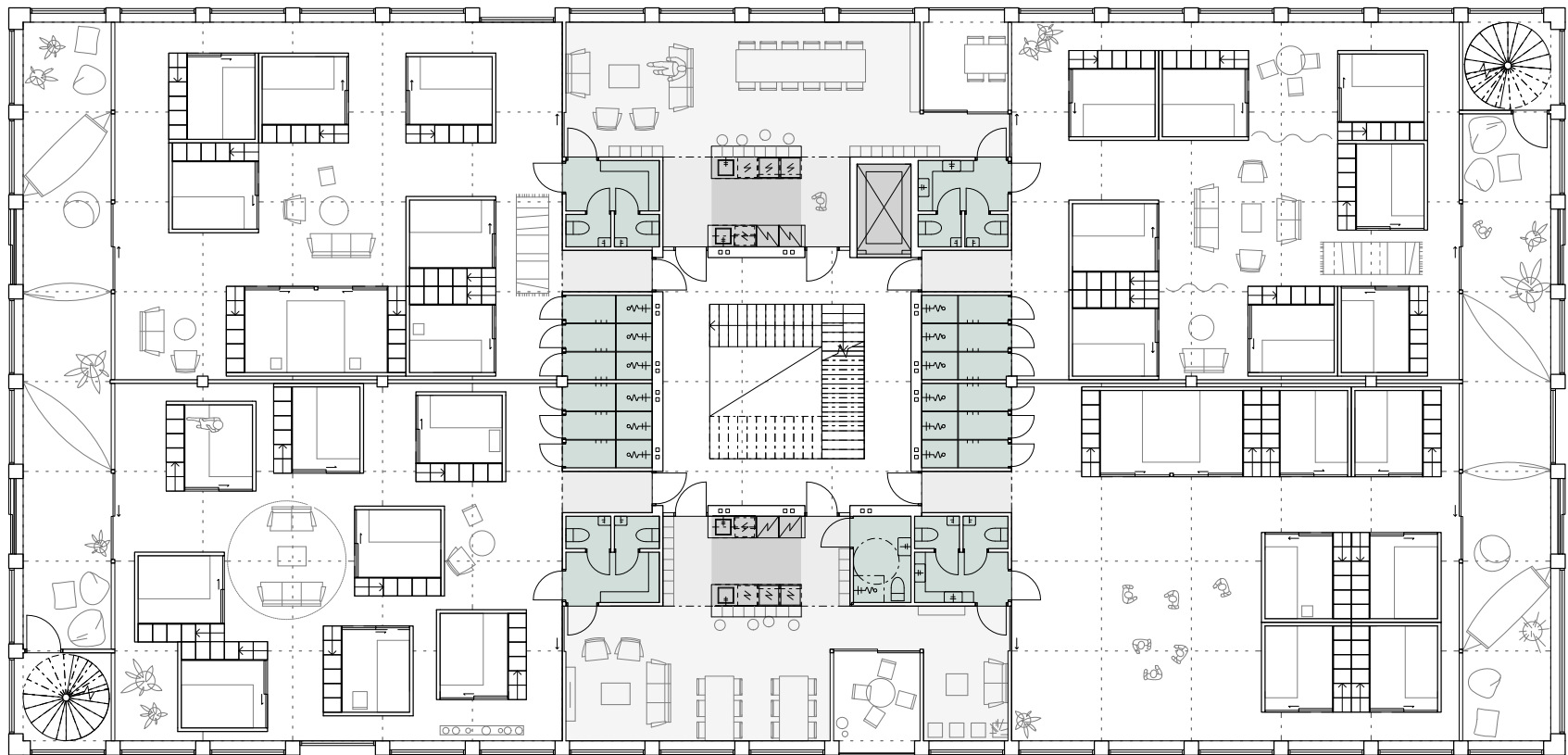
socializing

living

concentrating



acoustical zones

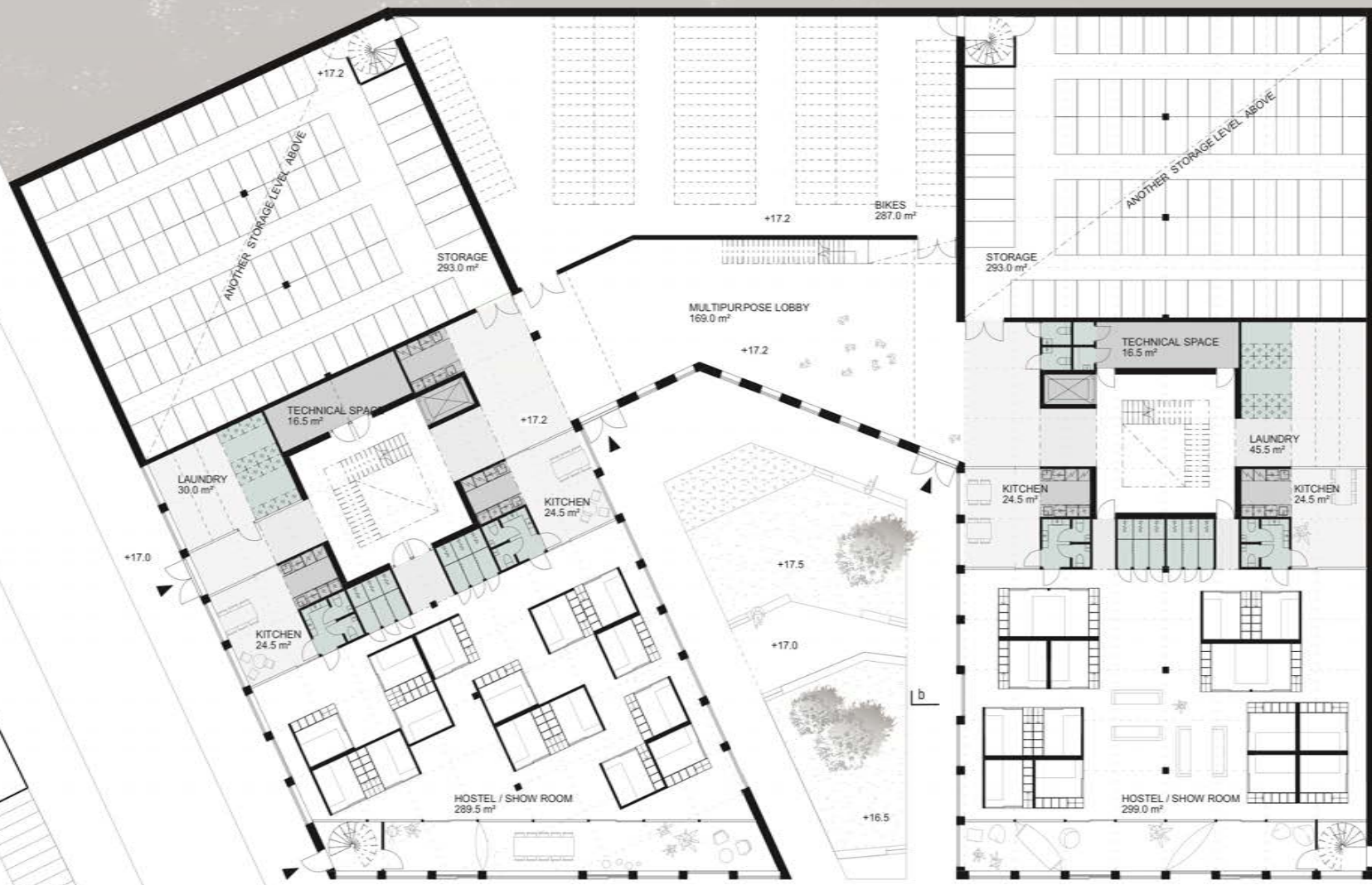


normal level 1:125





a



ground level 1:200





section a-a 1:200



total floor area

1st floor 2080 m²
2nd floor 1910 m²
3rd floor 1590 m²
4th floor 1590 m²
5th floor 1590 m²
6th floor 1590 m²
7th floor 790 m²

= 11 140 m²

rentable spaces :
690 m²

spaces for student housing :
10 450 m²



360 living units



efficiency

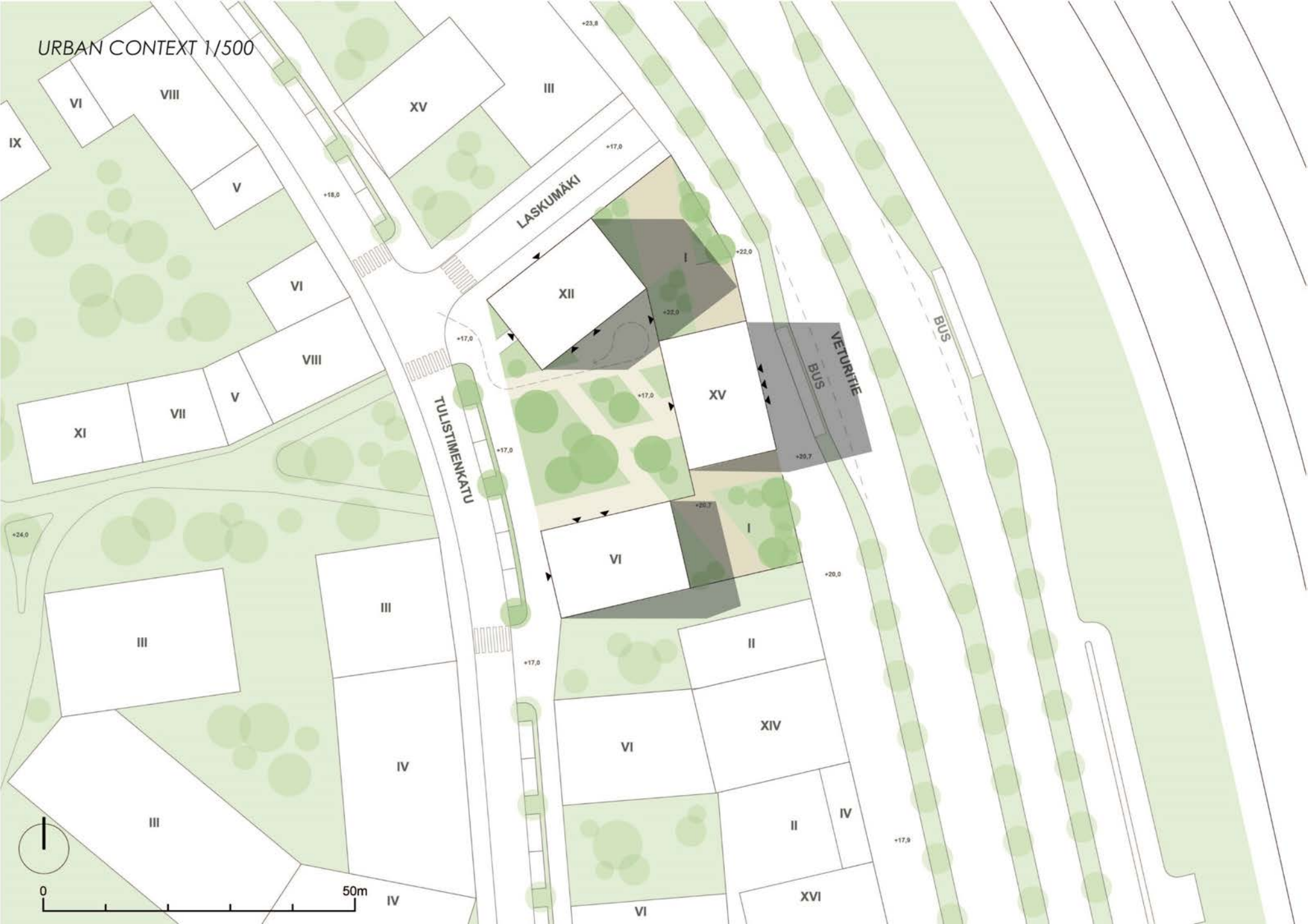
entire building : 28.9 m² / person
normal floor : 24.0 m² / person





NOEMIE ATTIA - JANNE VARTIAINEN

URBAN CONTEXT 1/500

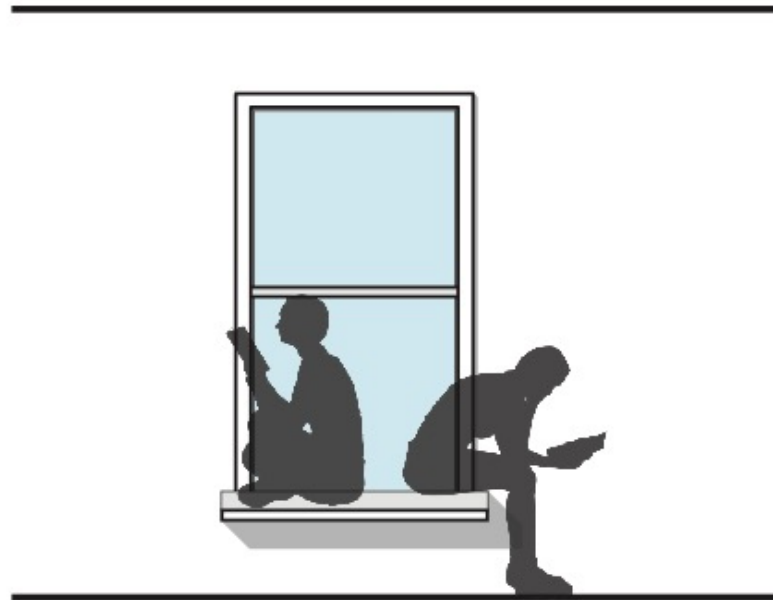


PORCH

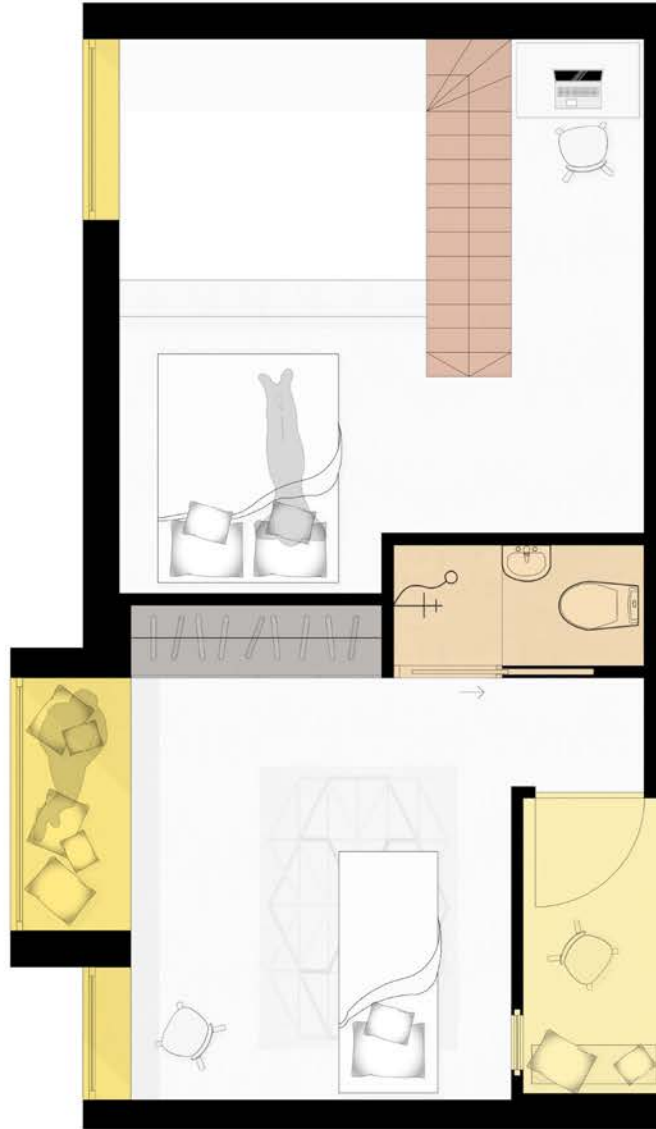
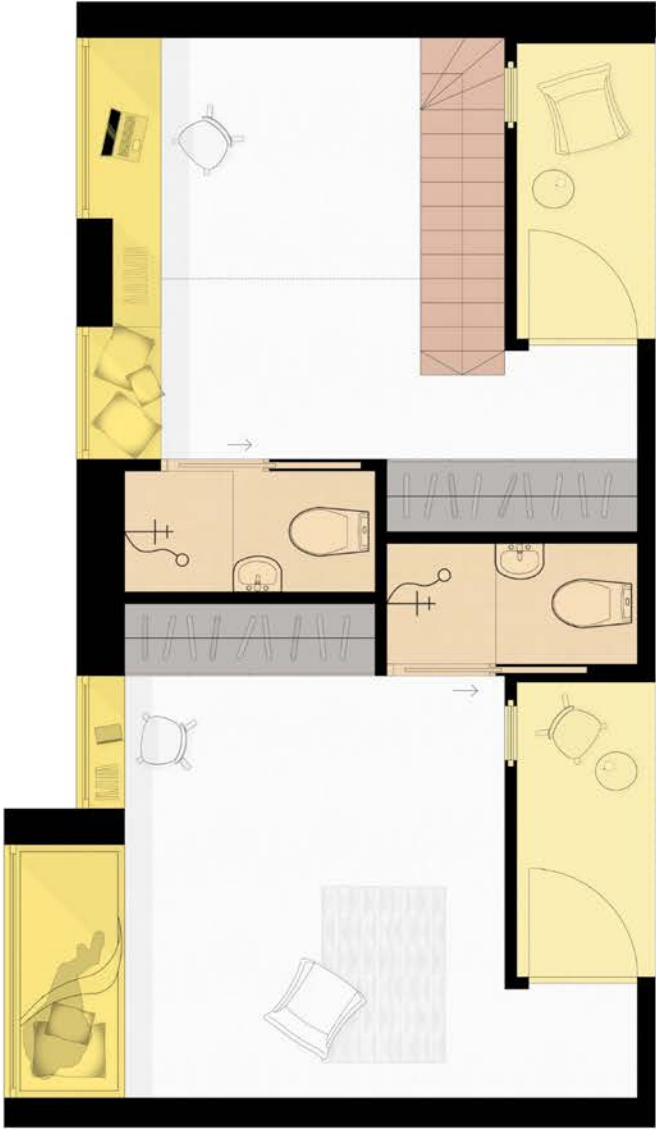




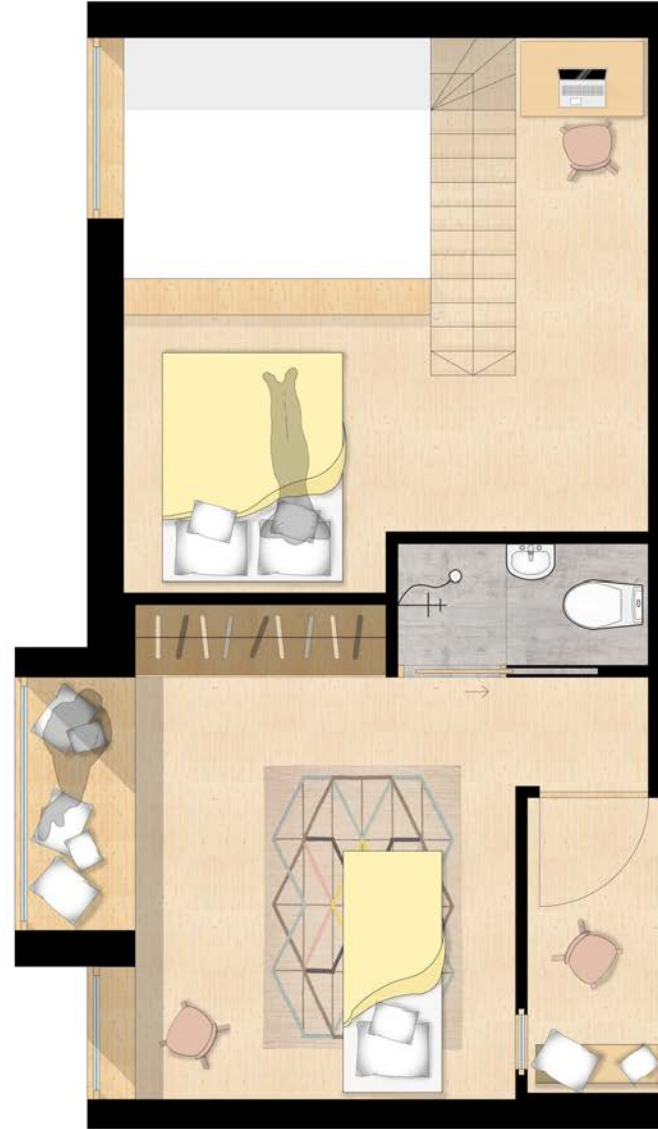
INHABITED WINDOW

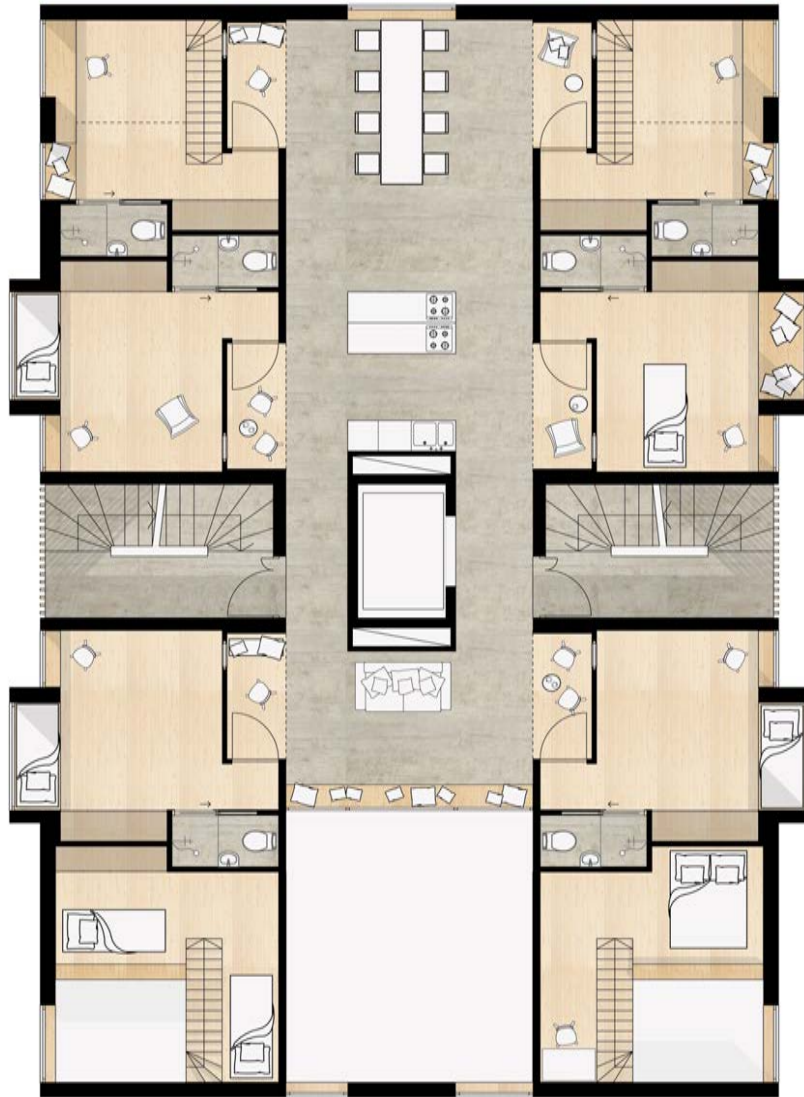






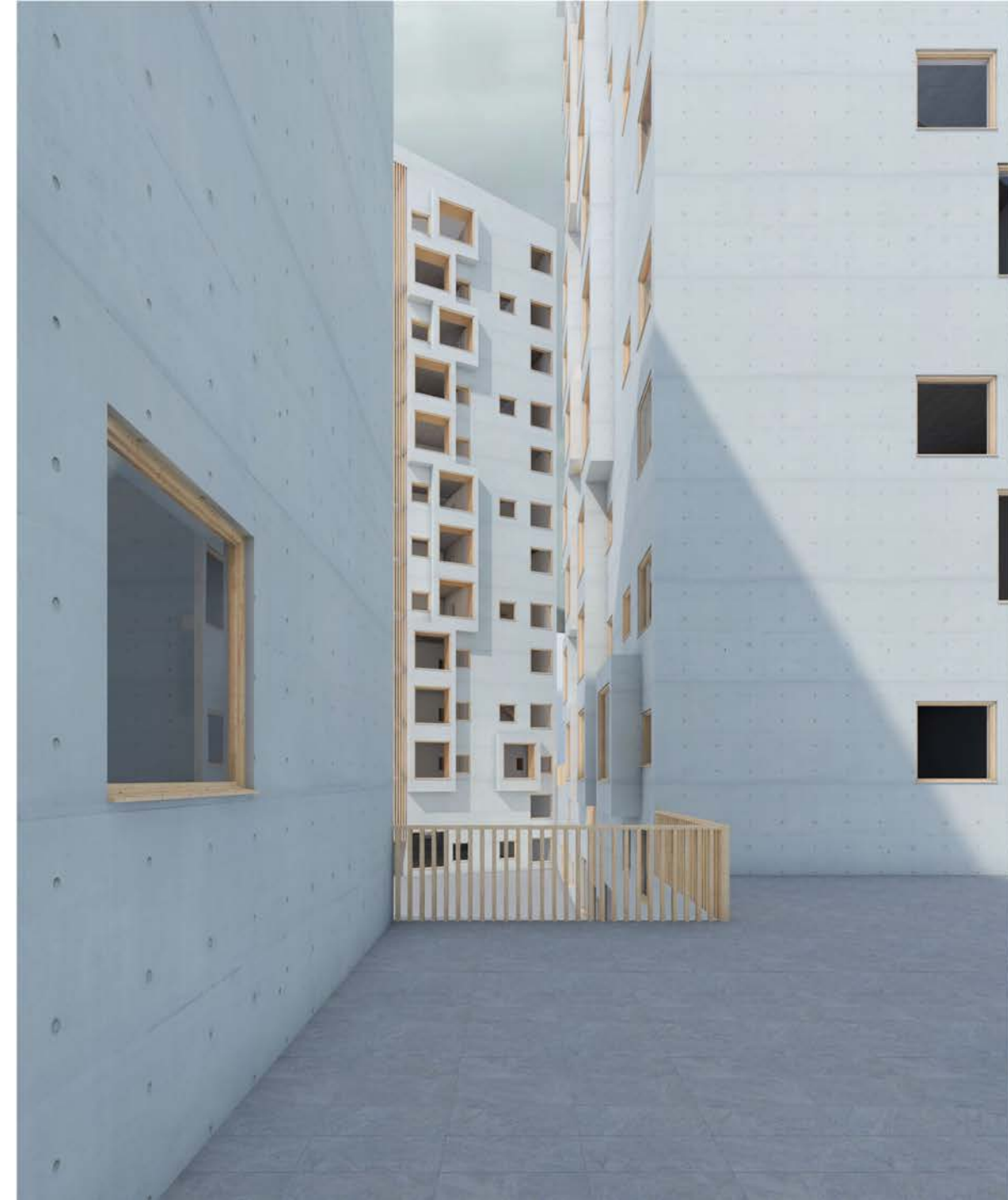
DETAIL PLAN OF THE UNITS 1/20











NELIÖITÄ TARVITAAN

ASUNTOJEN NELIÖIDEN VÄHENTÄMINEN VASTAUS VÄÄRÄÄN KYSYMYKSEEN

TARJOTAAN BURANAA, KUN TARVITAAN ANTIBIOOTTIA

ASUNNOSTA POISTUVAT NELIÖT TARVITAAN JOSSAKIN MUUALLA

YHTEISET TILAT, JAETUT TILAT, PALVELUTILAT?