“THE HUMAN BODY SHOP”

I. INTRODUCTION

II. RESEARCH & DESIGN BRIEF

III. CONCEPT

IV. IMPLEMENTATION

V. CONCLUSION

HAVE YOU BEEN TO THE HOSPITAL LAST YEAR?

1,893 HOSPITALS

16,800,000 PATIENTS

20% OF THE POPULATION

CRITICAL INFRASTRUCTURE

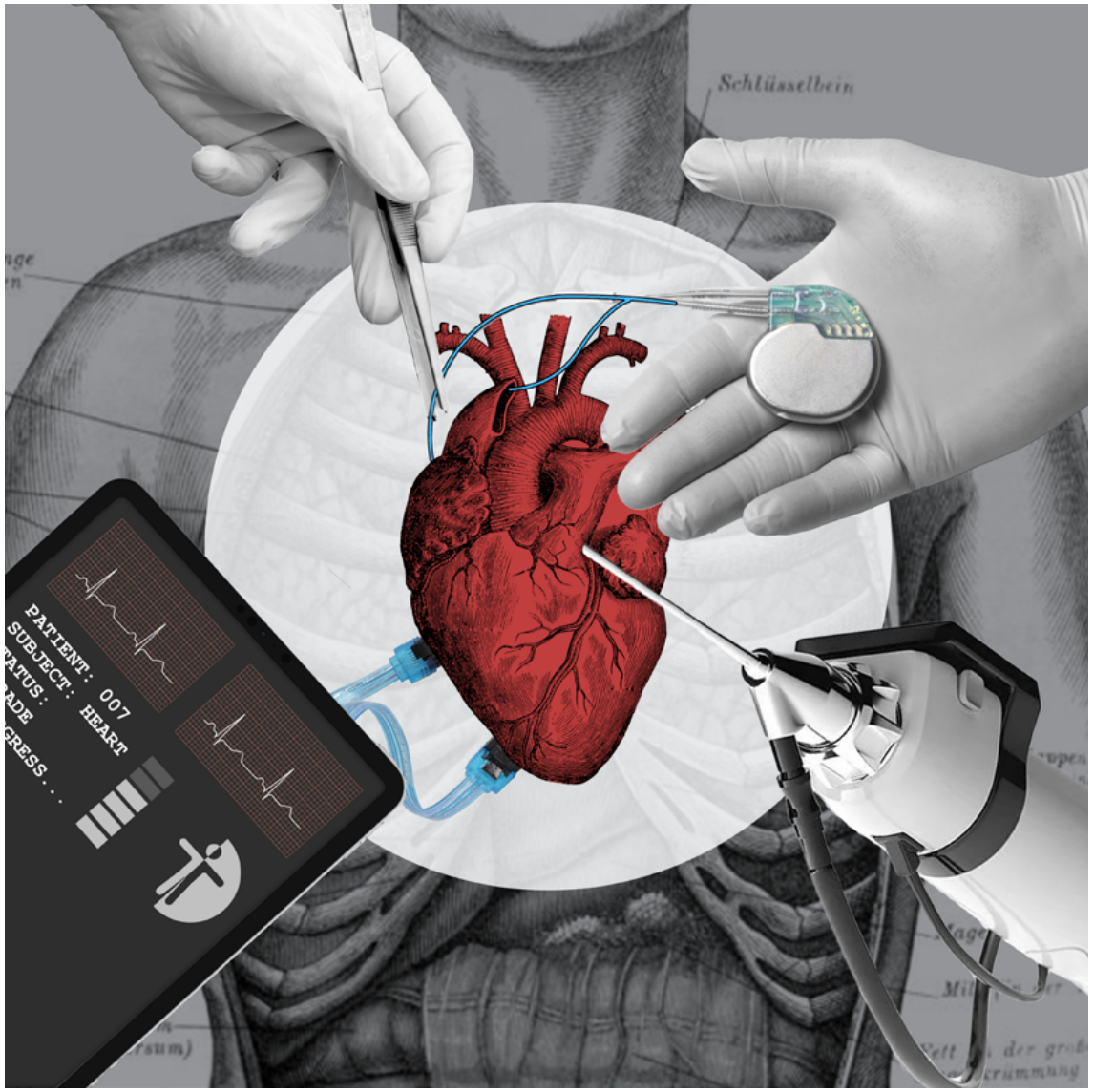
THE LAST RESORT

Hospitals are the most critical buildings within society,
but are only part of it during times of necessity.

THE LABYRINTH

The highly complex program and dominant circulation of the 'healing machine' has created a labyrinth within the built environment; a labyrinth that society rather avoids, than partake, discover, and be associated with.

BUILDINGS TO BODIES



Innovation in the field of human body augmentation has started the transition of buildings, to bodies as a healing machine. Not only changing the human body, but also the hospital as we know it today.

SPECIALISED & OPEN

Corridor

The surge in human body augmentation, technology, and development will require a specialised hospital structure that is optimised, flexible, and open to society and its discourse.

INTERWOVEN WITH THE EVERYDAY

Courtyard

Creating a new hospital typology, that intertwines the threshold between hospital, and society;
by interweaving the everyday activities happening in a park, neighbourhood, and city. Park + Shopping Mall + Theme Park = loAB

INTERWOVEN WITH THE EVERYDAY

Courtyard

Creating a new hospital typology, that intertwines the threshold between hospital, and society;
by interweaving the everyday activities happening in a park, neighbourhood, and city. Park + Shopping Mall + Theme Park = IoAB

EXTENSION OF THE CITY

Park

Creating a new hospital typology, that intertwines the threshold between hospital, and society;
by interweaving the everyday activities happening in a park, neighbourhood, and city. Park + Shopping Mall + Theme Park = IoAB

PART OF SOCIETY

City

Introducing a new hospital, that is not only part of society when in need, but part of society every day.

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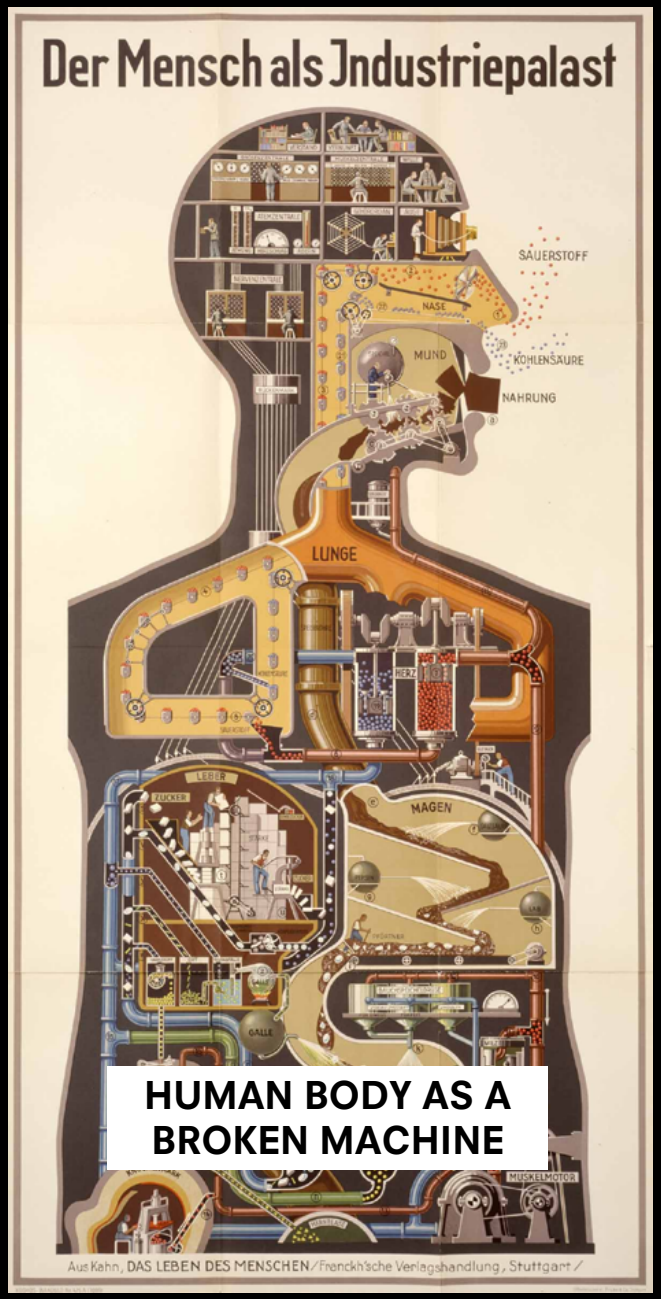
“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

“WHAT IS HUMAN BODY AUGMENTATION?”

RESULT



HUMAN BODY AS A BROKEN MACHINE

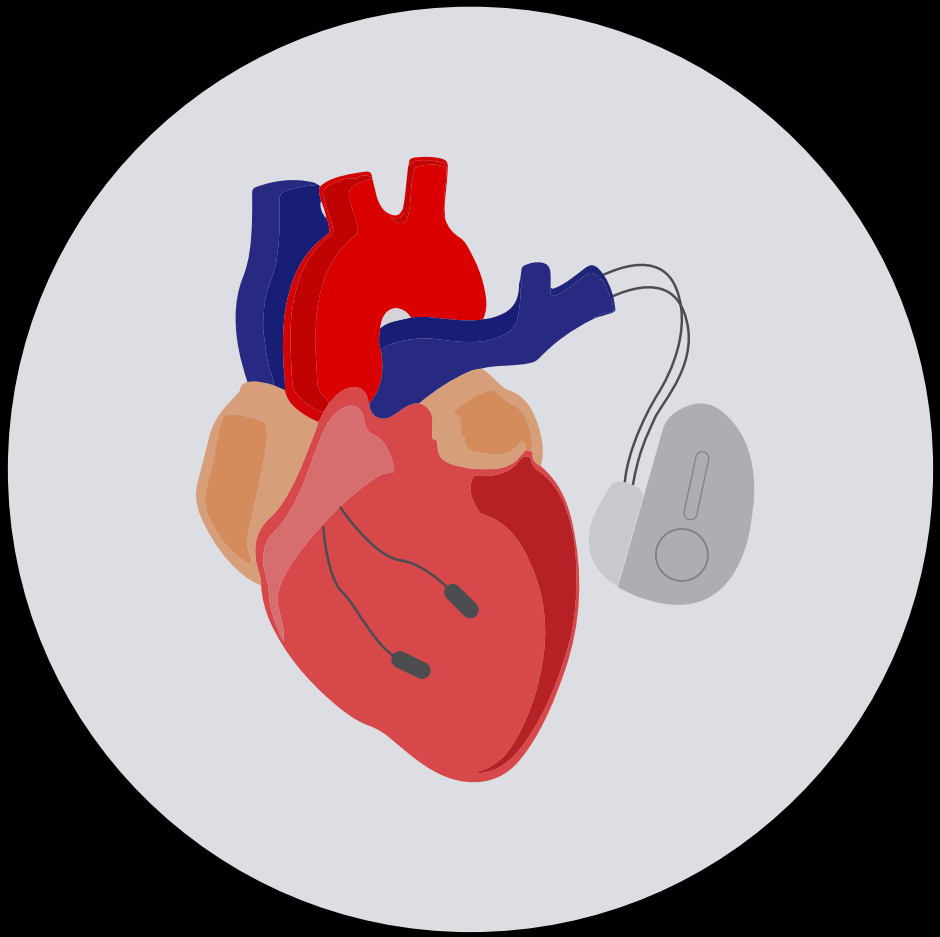
Man as Industrial Palace, Fritz Kahn, 1926.

PATH TOWARDS THE FUTURE

from **buildings** as a (healing) machine
to **bodies** as a (healing) machine.

OVERVIEW

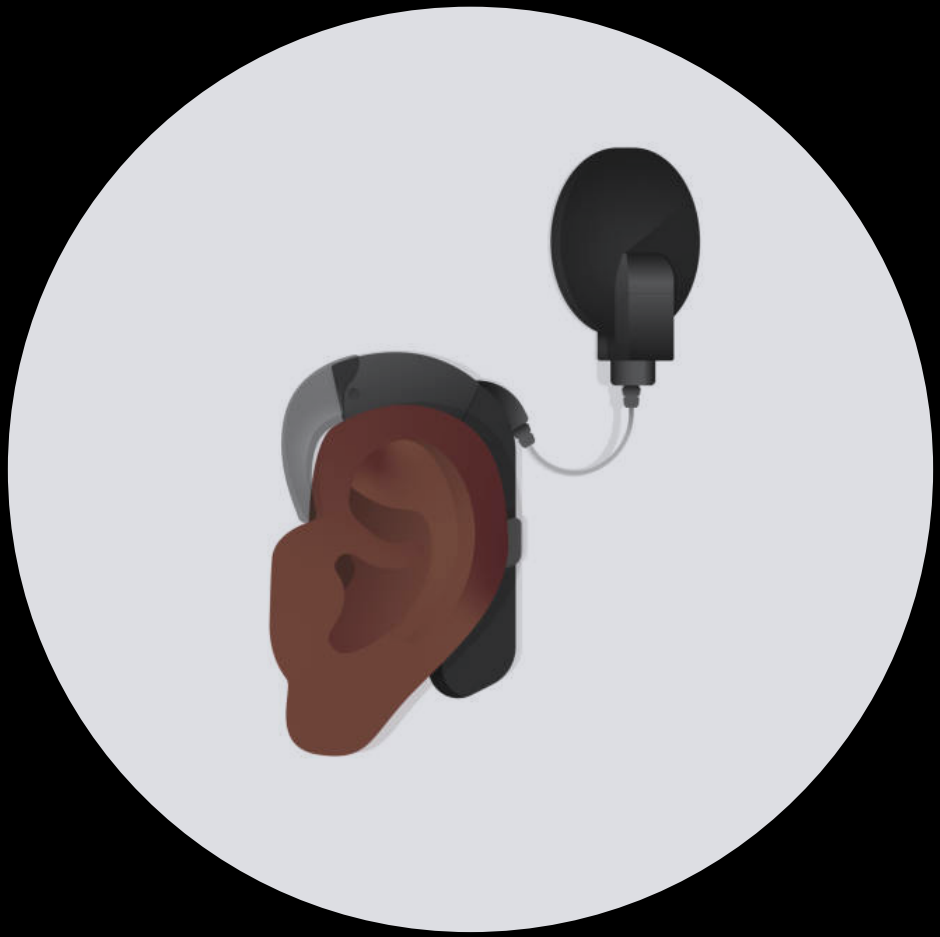
BIO-ELECTRONICS



PACEMAKER

- 1958 -

OVERVIEW



COCHLEAR IMPLANT

- 1982 -

OVERVIEW

BIOMECHATRONICS

- 2010 -

OVERVIEW

BRAIN PROSTHESIS

- 2011 -

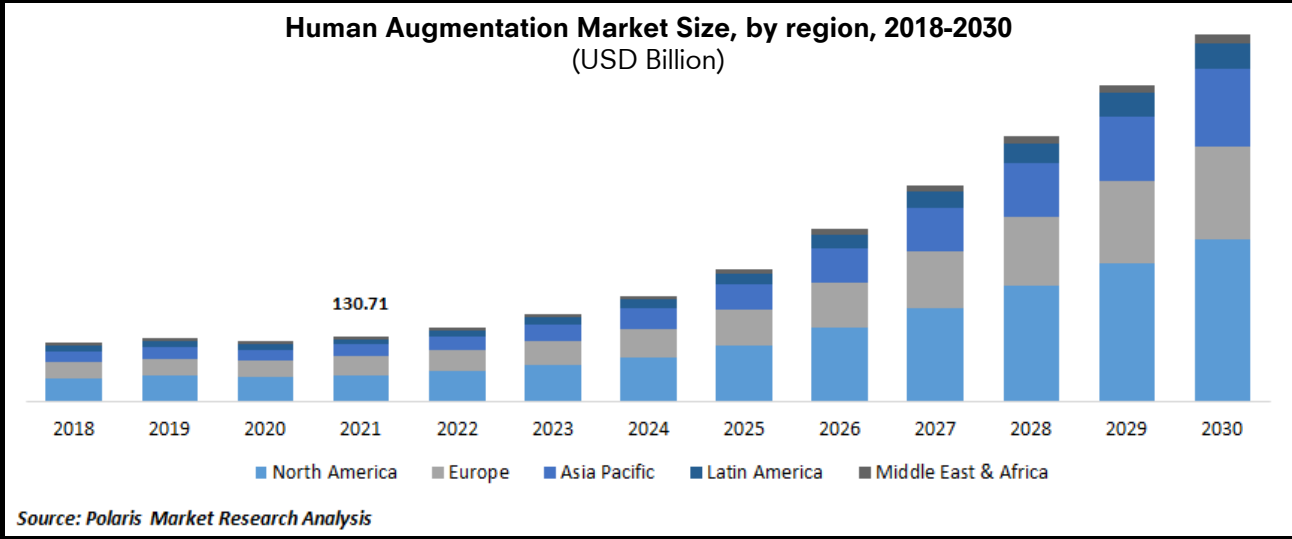
OVERVIEW

EXOSKELETON

- 2015 -

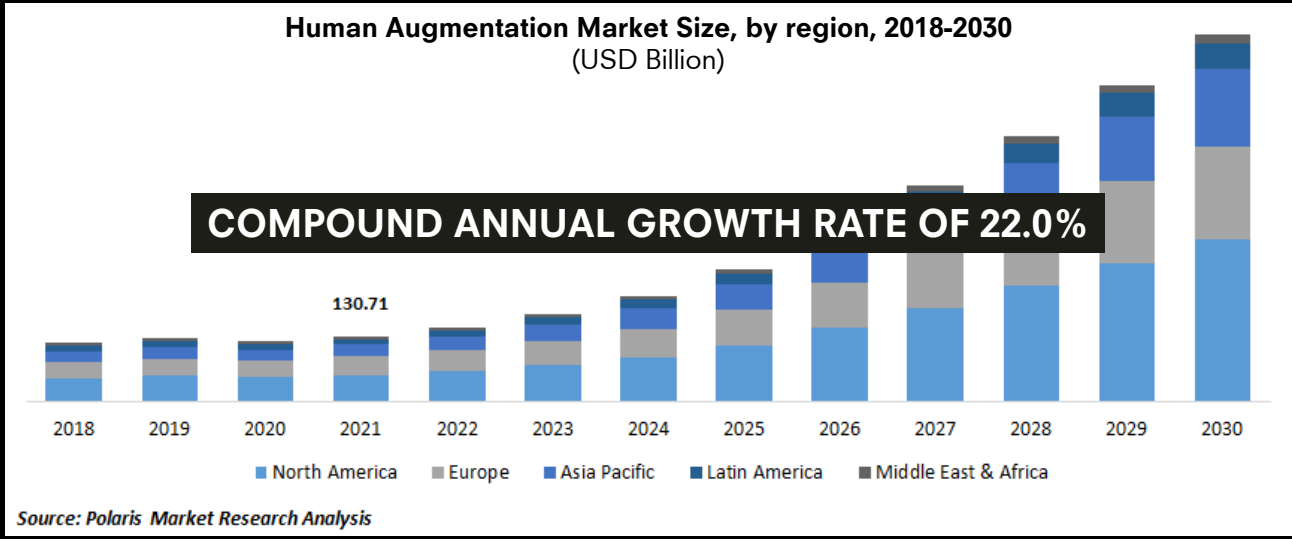
DEVELOPMENT

“BODY AUGMENTATION”

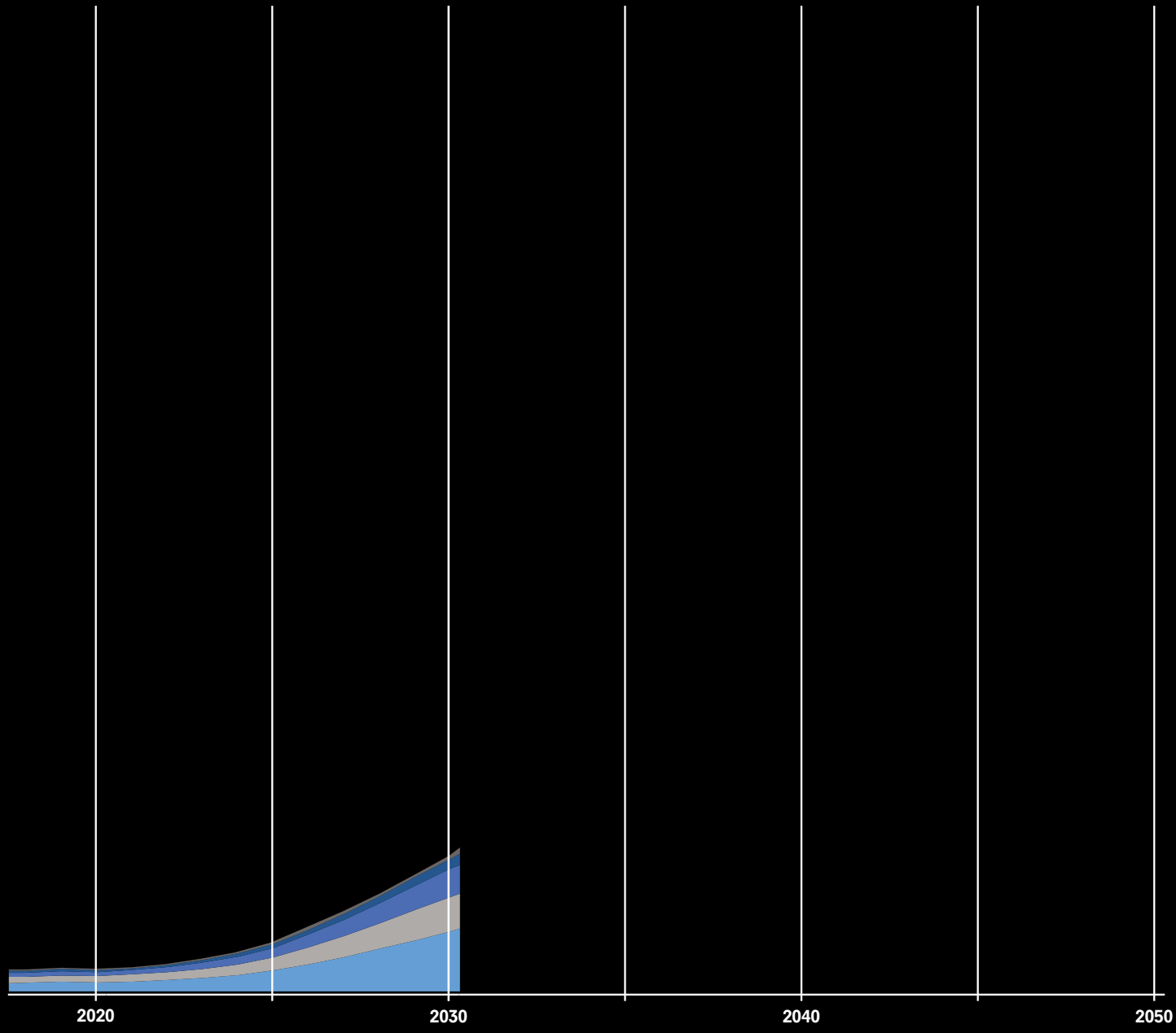


DEVELOPMENT

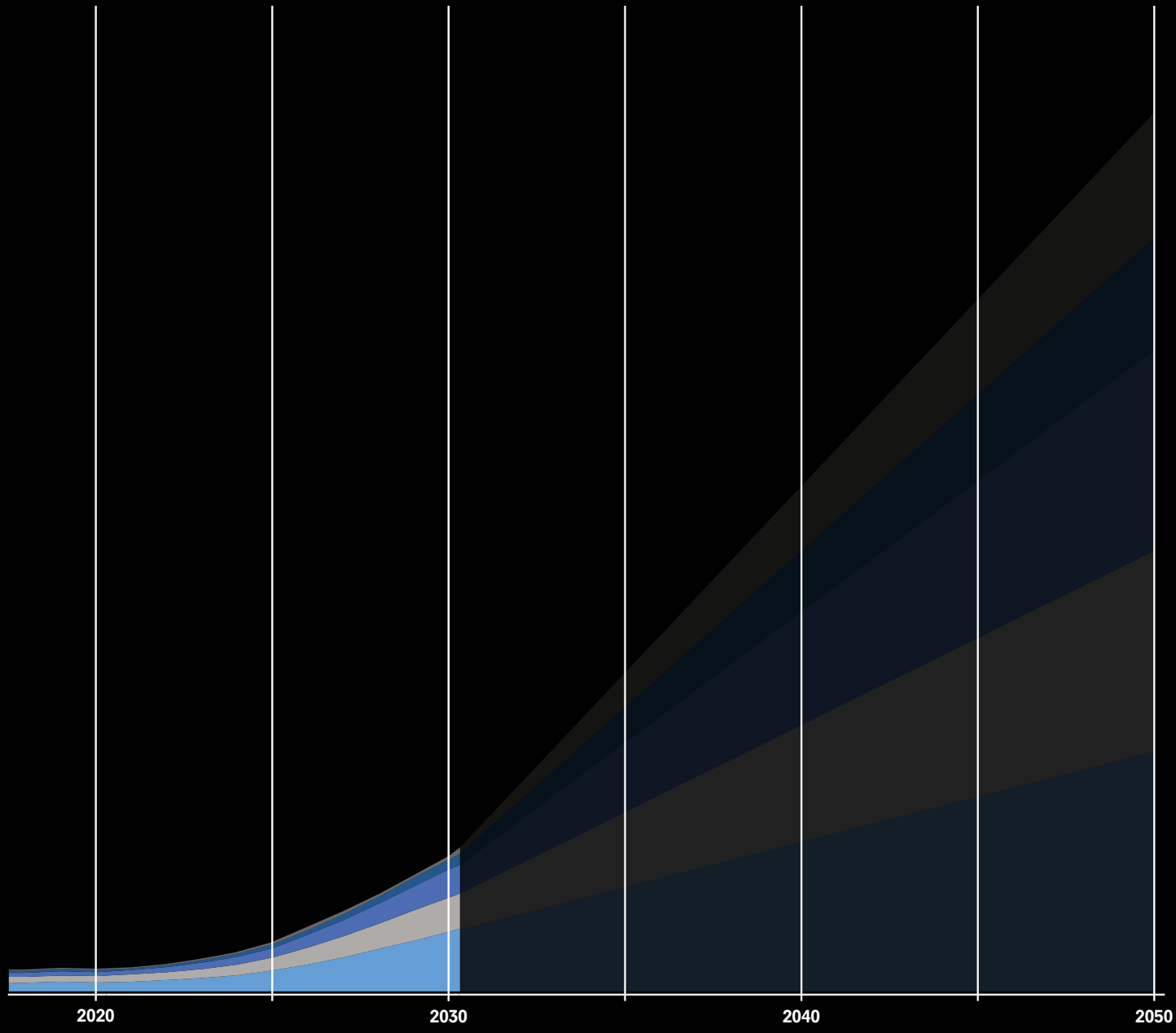
“BODY AUGMENTATION”



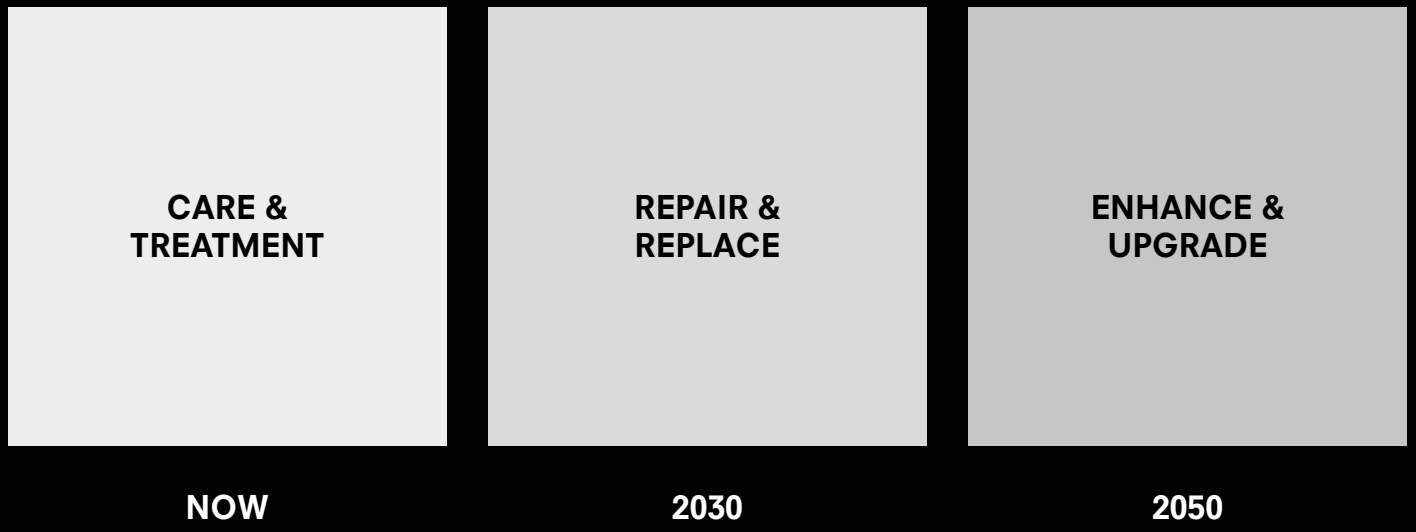
CURRENT DEVELOPMENT



FUTURE DEVELOPMENT



CHANGING ROLE OF THE HOSPITAL



HOW WILL THIS AFFECT THE BUILDING?

BUILDING - IMPLICATIONS

SPECIALISED

FLEXIBLE

MULTI-PURPOSED

TRANSPARENT

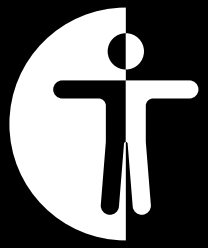
PART OF THE CITY

MATERIALISATION

WHAT WILL THE FUTURE LOOK LIKE?

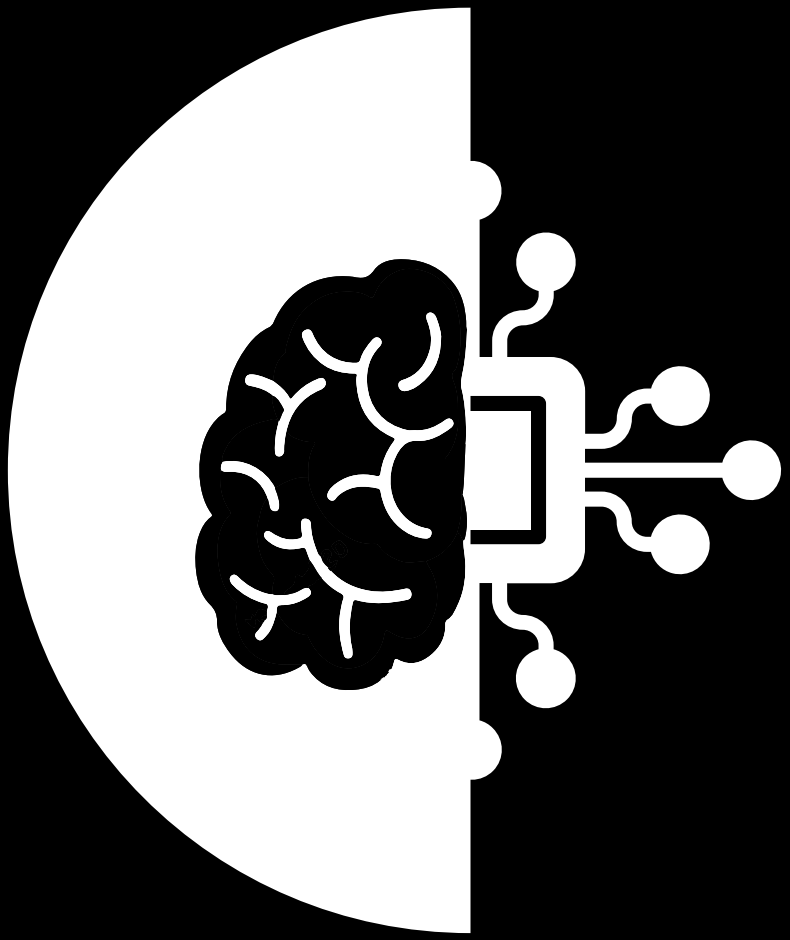
2054?

PROPOSAL



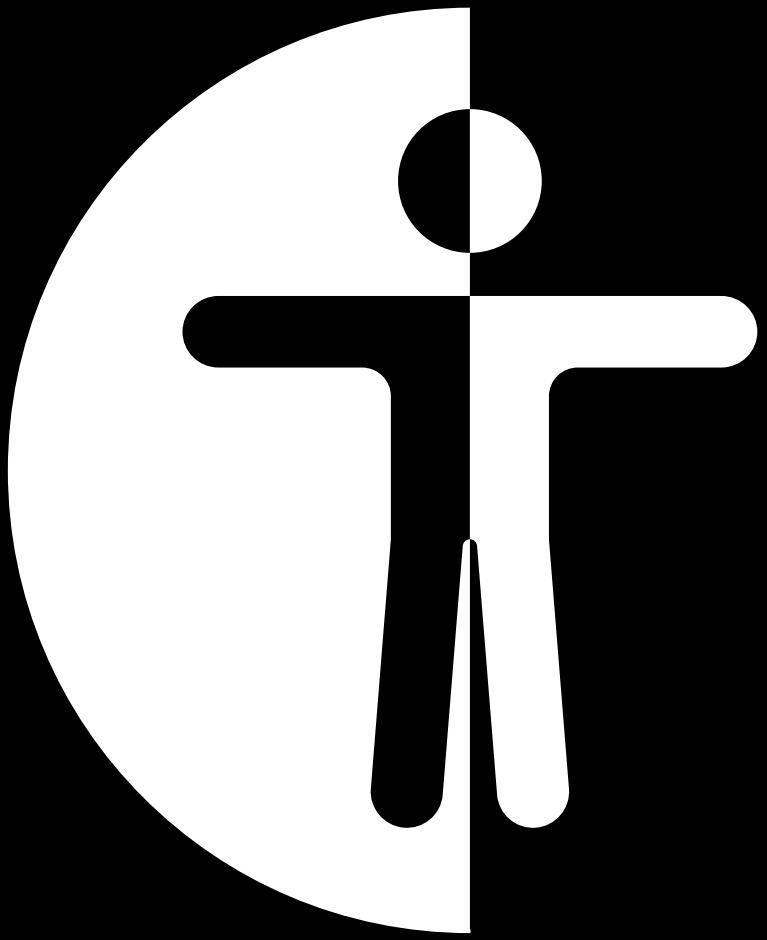
Institute of Augmented Bodies

SPECIALISATION



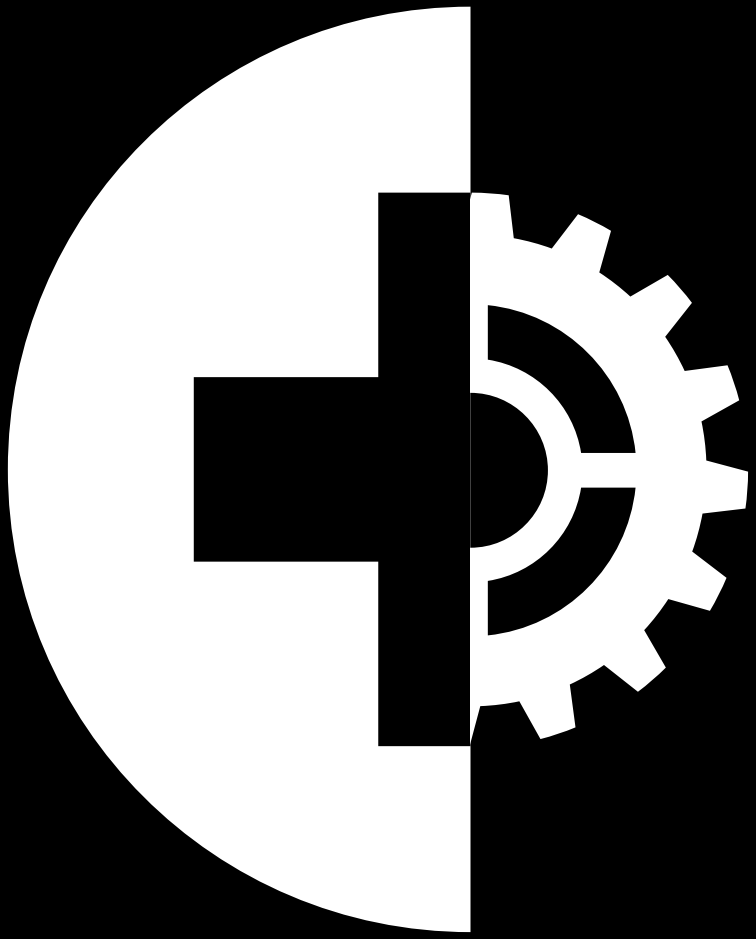
MIND

SPECIALISATION



BODY

SPECIALISATION



DOCTORS & ENGINEERS

MAIN RESEARCH QUESTION

“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

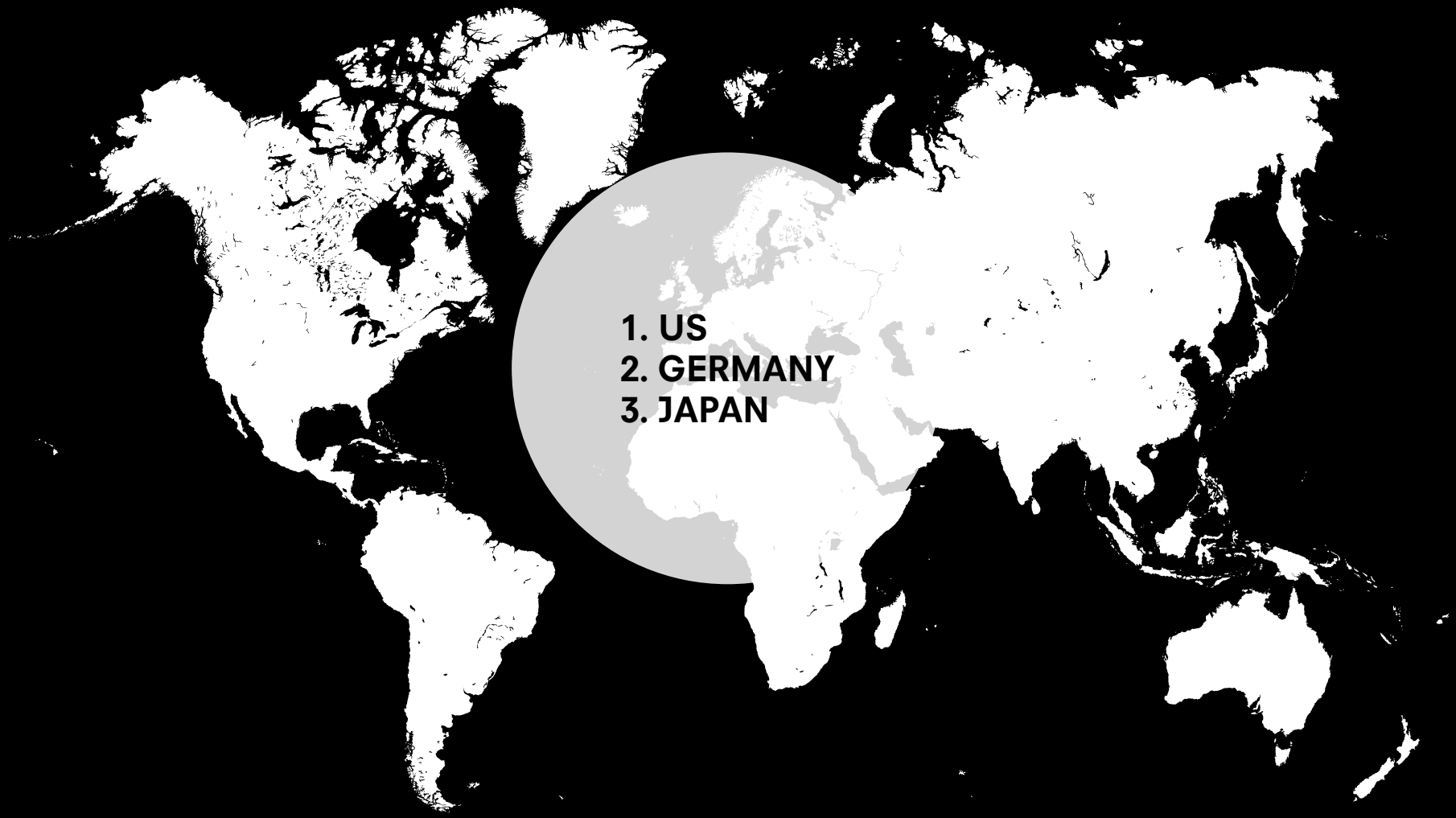
1 - “How will augmentation change the hospital process for the human body, and thus the building program?”
2 - “How can we create a living hospital structure, that can grow, upgrade, and get augmented through time?”

“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

WHO WOULD FUND THIS CHANGE?

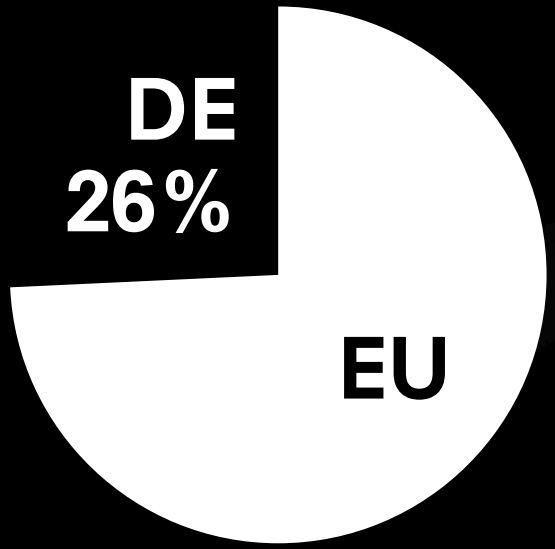
GERMAN HEALTHCARE MARKET

GLOBAL MARKET LEADERS



MedTech Europe, Fitch Solutions (2023)

EUROPEAN MARKET



MEDICAL DEVICE MARKET

GERMANY
$42 BILLION

EUROPEAN UNION
$160 BILLION

The German medical device market is one of the most lucrative healthcare markets worldwide, accounting for roughly USD 42 billion annually, or 26.4% of the European market total.

International Trade Administration - U.S. Department of Commerce (2023)

LEADER OF THE EU

GERMANY AS HEADHUNTER OF THE HEALTHCARE QUALITY & INDUSTRY

GERMAN HEALTHCARE MARKET

1/6 JOBS LINKED TO THE HEALTHCARE SECTOR
678.2 BILLION EURO, 12% OF GERMANY'S GDP

FUTURE

2054?

NEW COMPETITOR

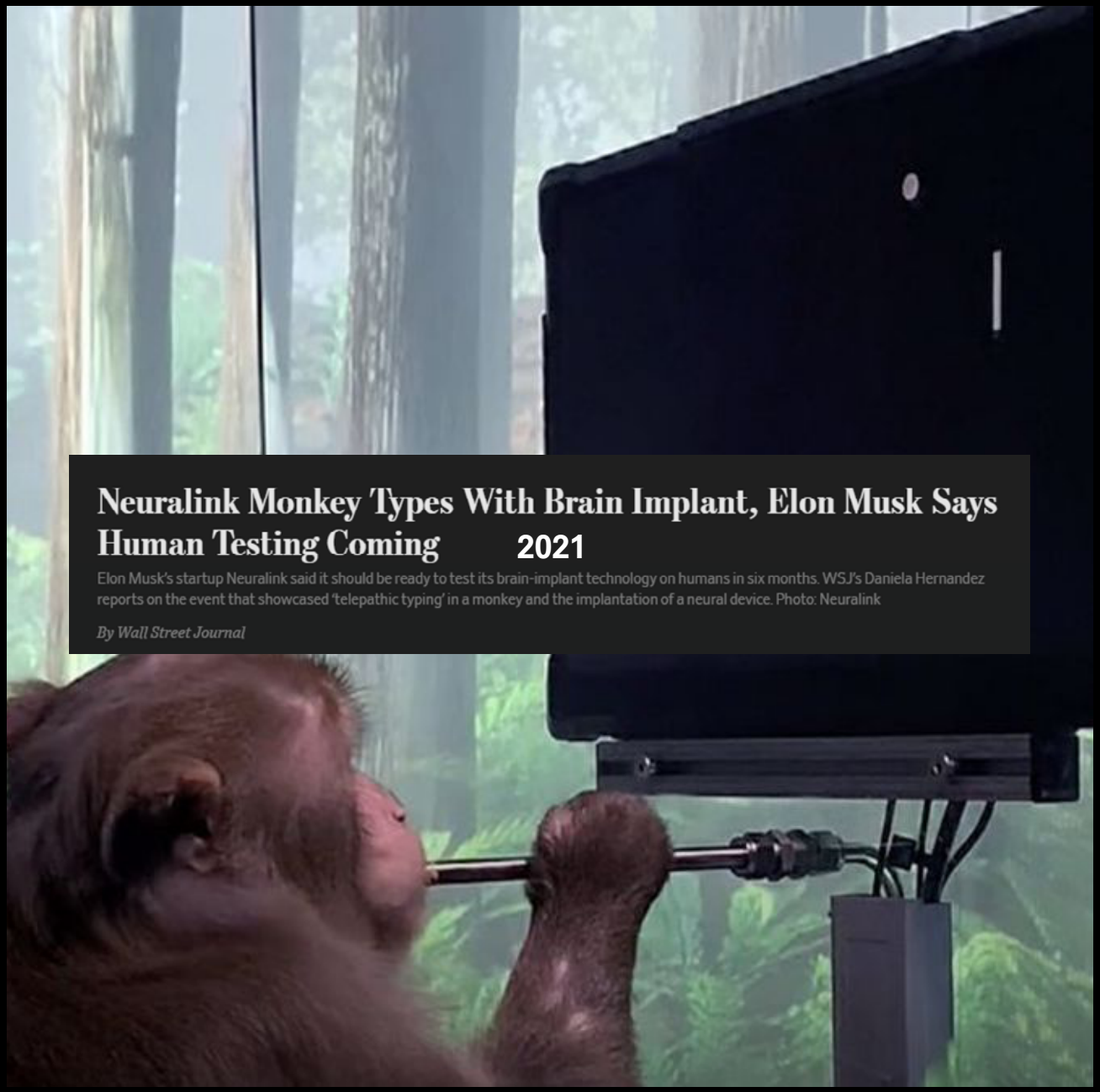
HISTORY

2016

HISTORY

2019
Elon Musk unveils Neuralink's plans for brain-reading 'threads' and a robot to insert them

HISTORY


Neuralink Monkey Types With Brain Implant, Elon Musk Says Human Testing Coming
2021
Elon Musk's startup Neuralink said it should be ready to test its brain-implant technology on humans in six months. WSJ's Daniela Hernandez reports on the event that showcased 'telepathic typing' in a monkey and the implantation of a neural device. Photo: Neuralink
By Wall Street Journal

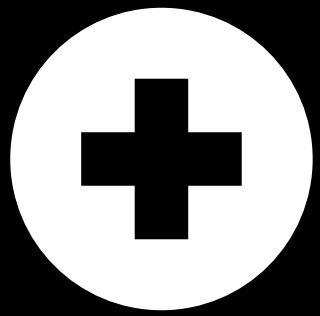
HISTORY

Future of Health
Musk's Neuralink to start human trial of brain implant for paralysis patients
Reuters
2023

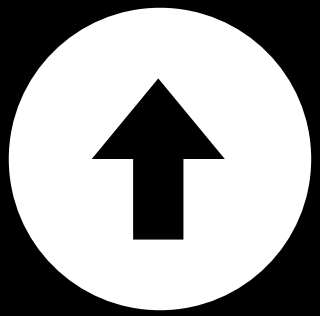
HISTORY

2024

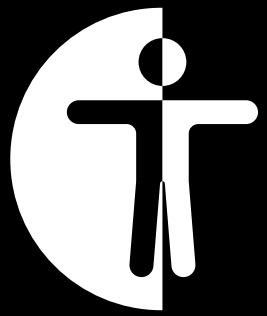
FUTURE AMBITIONS



Treating Neurological Conditions

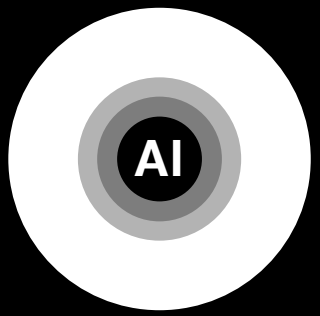


Enhancing Human Cognition



Human & Technology Symbiosis

Understanding the Brain



AI & Human integration

“CLIENTS”

NON-PROFIT

MAX PLANCK INSTITUTE
OF HUMAN DEVELOPMENT

PRIVATE

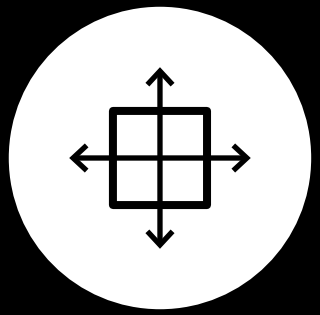
NEURALINK

PUBLIC

HUMBOLDT UNIVERSITY
OF BERLIN

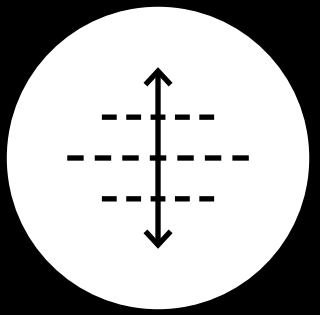
PROJECT AMBITIONS

Specialised = Size



Room for expansion

Public Engagement



Low Threshold

Part of Society

“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

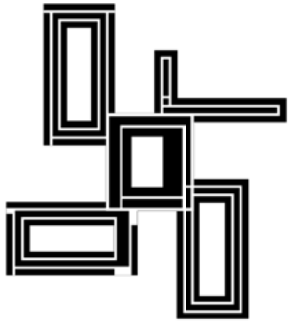
“WHAT DOES A HOSPITAL ENTAIL?”

CASE STUDIES

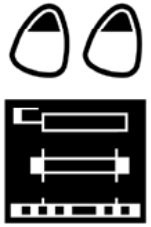
XL L M S

PROGRAM BENCHMARKING

AZ GROENINGE
GFA 125,000 M²
1100 BEDS

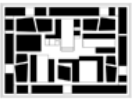


REY JUAN CARLOS HOSPITAL
GFA 72,000 M²
260 BEDS



ZAANS MED. CENTRUM
GFA 31,000 M²
299 BEDS

REHAB
GFA 23,221 M²
92 BEDS



UMC IMAGING CENTRE
GFA 15,000 M²
0 BEDS

XL **L** **M** **S**

PROGRAM BENCHMARKING

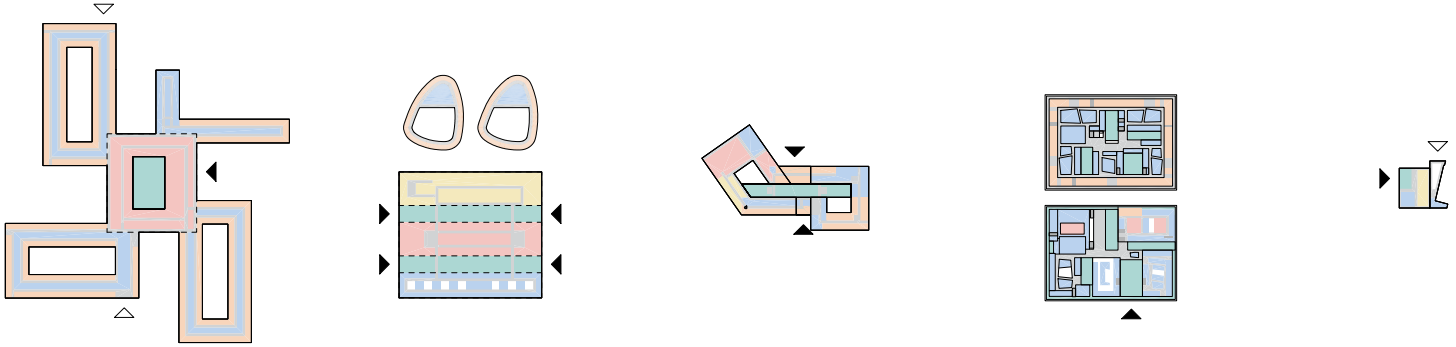
AZ GROENINGE
GFA 125,000 M²
1100 BEDS

REY JUAN CARLOS HOSPITAL
GFA 72,000 M²
260 BEDS

ZAANS MED. CENTRUM
GFA 31,000 M²
299 BEDS

REHAB
GFA 23,221 M²
92 BEDS

UMC IMAGING CENTRE
GFA 15,000 M²
0 BEDS



XL **L** **M** **S**

“HOT FLOOR”

“HOTEL”

“OFFICE”

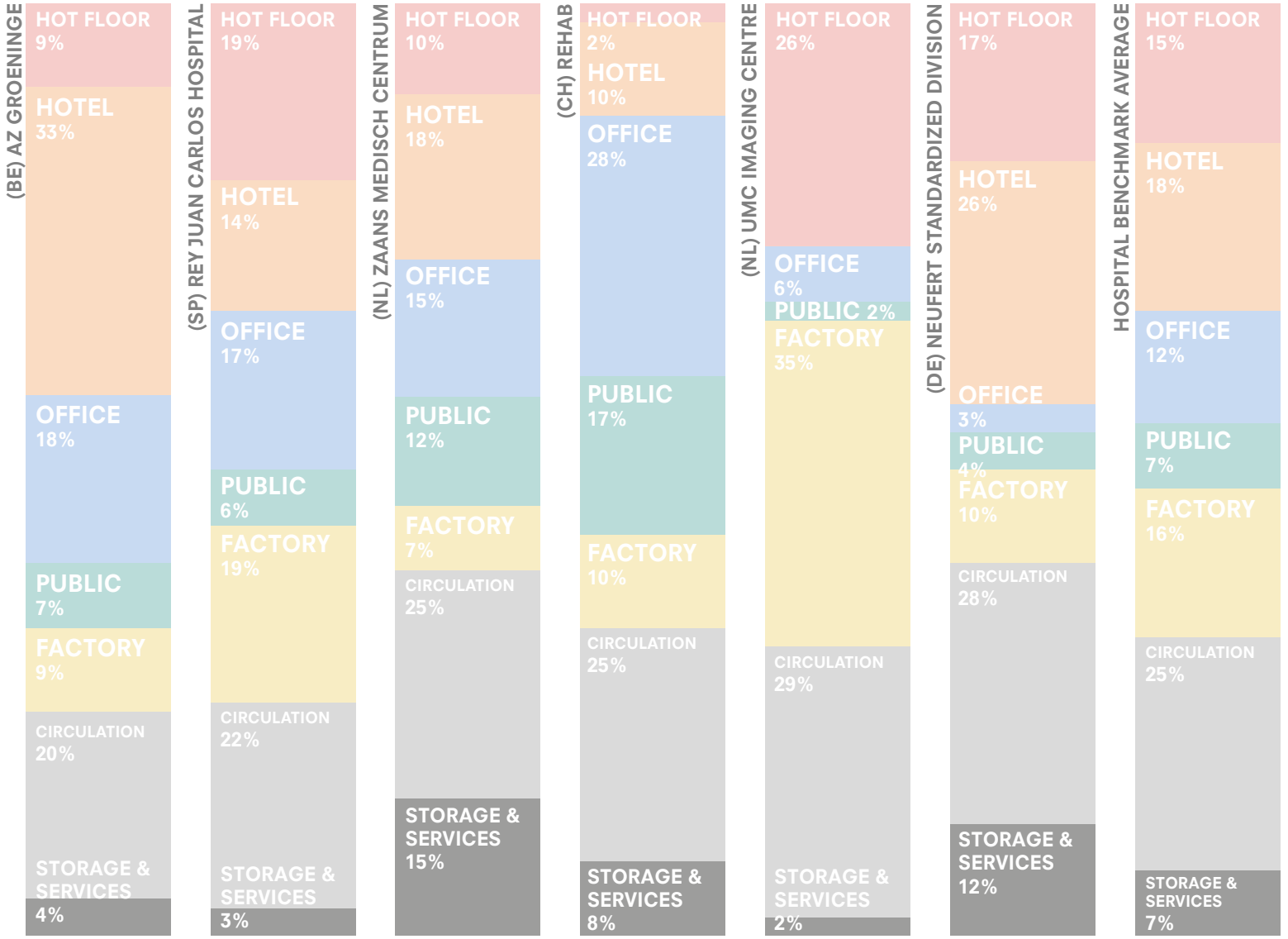
“PUBLIC”

“CIRCULATION”

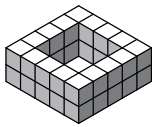
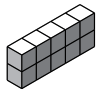
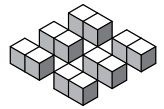
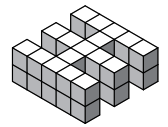
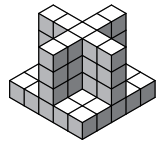
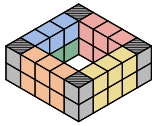
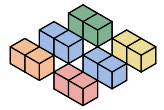
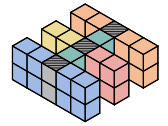
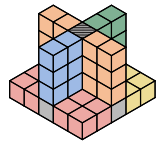
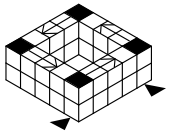
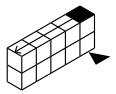
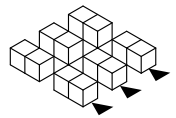
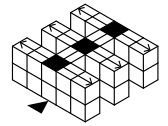
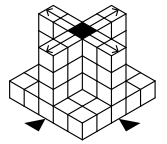
“STORAGE & SERVICES”

“FACTORY”

PROGRAM BENCHMARKING



ORGANISATION STRATEGIES

	CROSS	COURTYARD	LINE	CAMPUS	COMB	HYBRID
STRUCTURE						
ORGANISATION						
FLOWS						

NICKL-WELLER, C., & NICKI, H. (2021). ARCHITECTURE FOR HEALTH. BRAUN PUBLISHING.

MAIN RESEARCH QUESTION

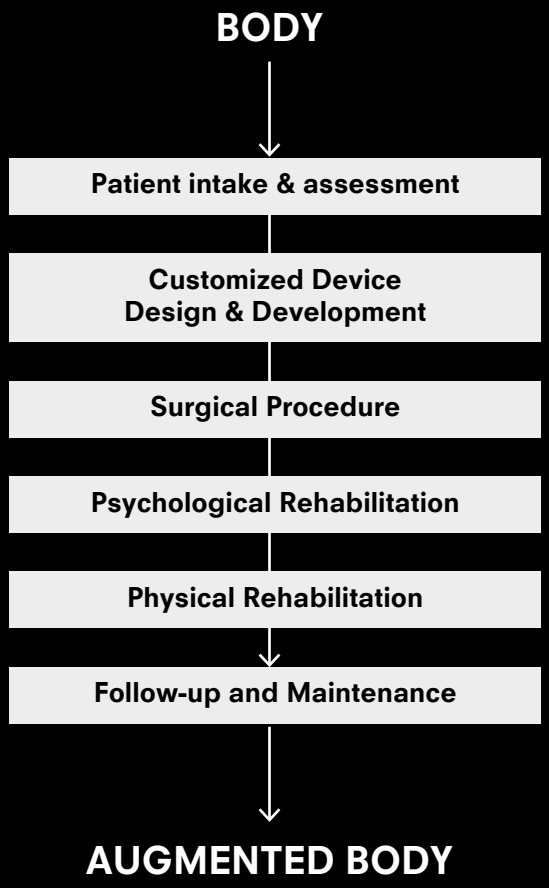
“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

“WHAT WILL CHANGE IN THE FUTURE?”

SPECIALIZED FACILITIES AND EQUIPMENT

FROM GENERAL HOSPITAL
TO A SPECIALISED HOSPITAL

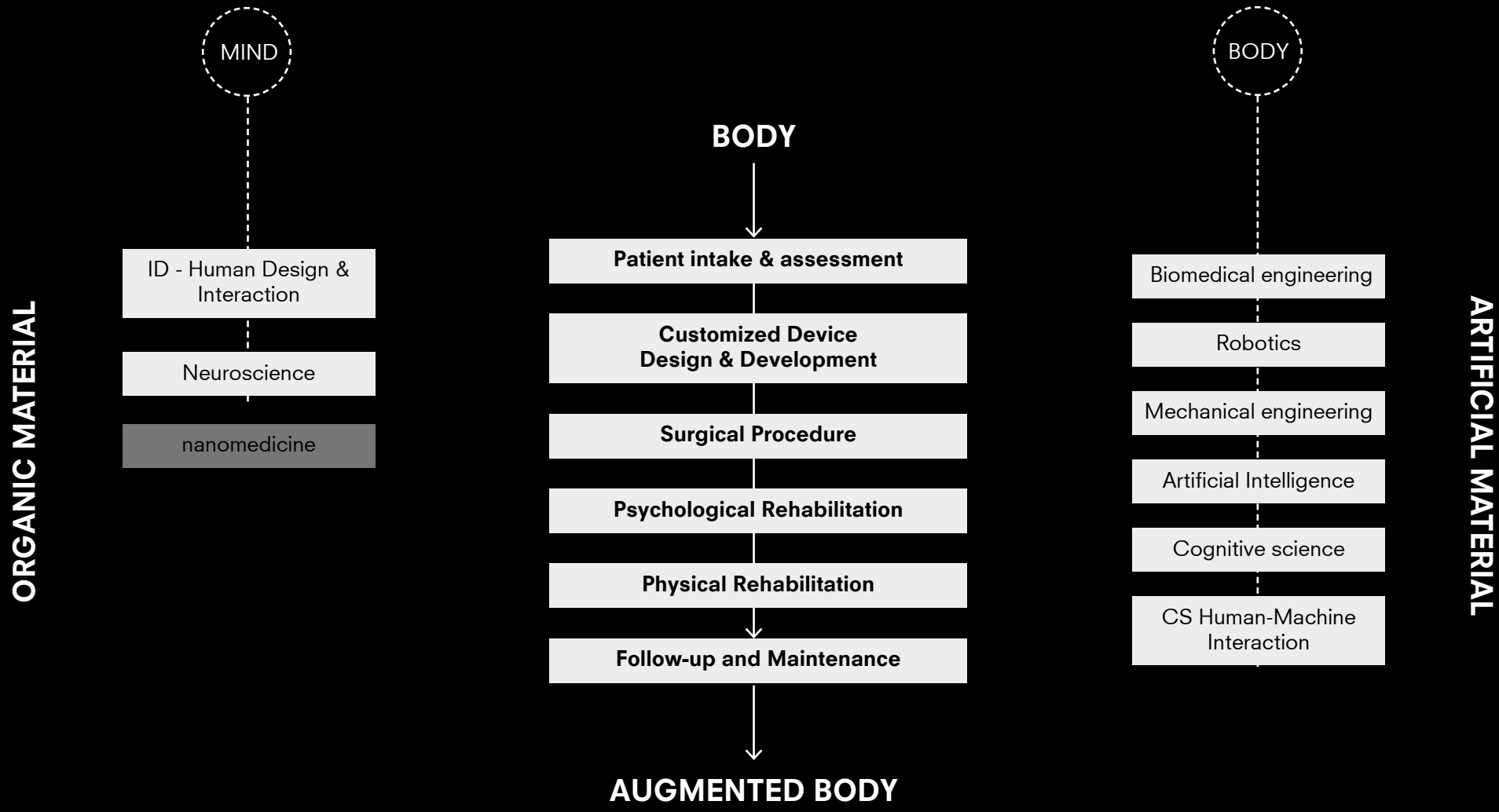
FUSION OF BODY AND MATERIAL



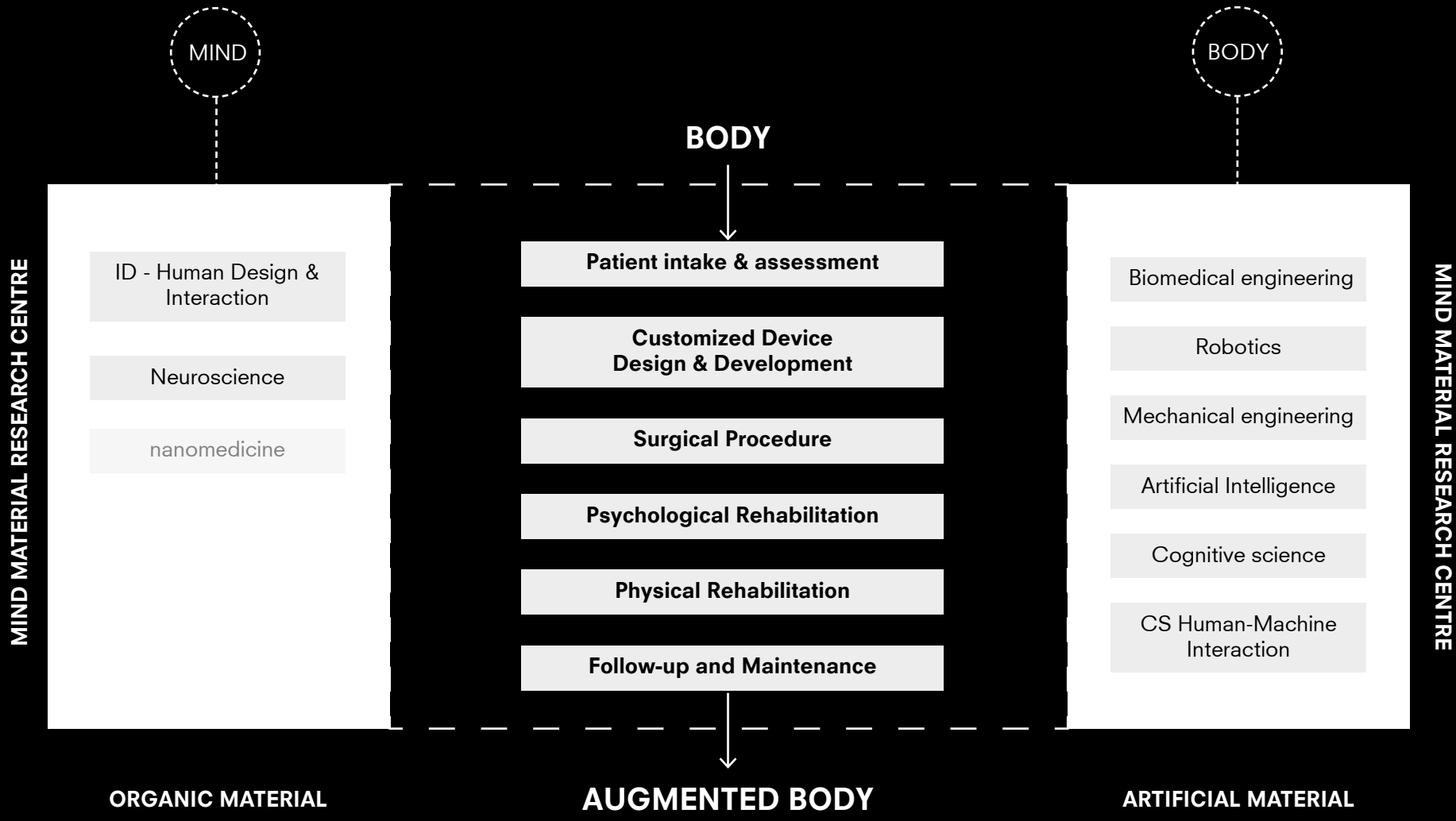
“CUSTOMIZED”
PATIENT EXPERIENCE

BENABID ET AL. (2019)

FUSION OF BODY AND MATERIAL



FUSION OF BODY AND MATERIAL



INTEGRATION OF RESEARCH AND DEVELOPMENT FACILITIES

AUTOMATION & OPTIMISATION

FROM PASSIVE HOSPITAL
TO AN ACTIVE HOSPITAL

AUTOMATION & OPTIMISATION

HOT FLOOR

HOTEL

OFFICE

RESEARCH

PROGRAM

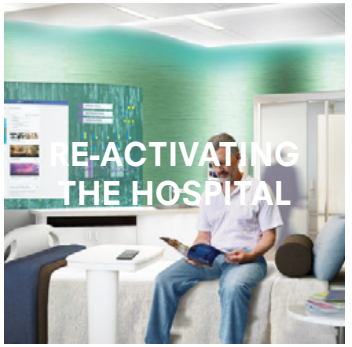
PUBLIC

FACTORY

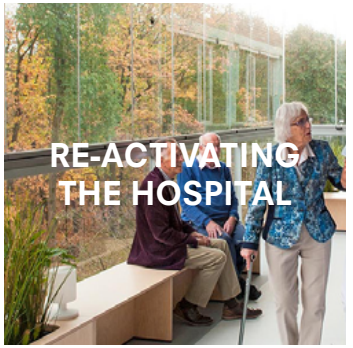
CIRCULATION

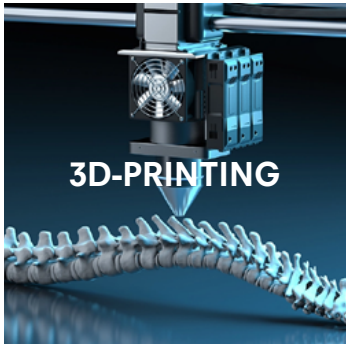
STORAGE
& SERVICES

AUTOMATION & OPTIMISATION



DEVELOPMENTS





AUTOMATION & OPTIMISATION

+ INCREASE OF OPERATION ROOM SIZE

- DECREASE OF INPATIENT BEDS

- DECREASE OF INPATIENT BEDROOM SIZE

- DECREASE OF WAITING AREAS AND PRIVATE OFFICE SPACE

+ INCREASE IN BACK OF HOUSE

- DECREASE IN FRONT OF HOUSE

SPATIAL

+ INCREASE OF SHARED AND PUBLIC SPACE

+ INCREASE IN WORKSHOP AND PRODUCTION AREA

+ SEPERATED CIRCULATION FOR HUMAN AND AUTOMATED FLOWS

- DECREASE OF STORAGE AREA

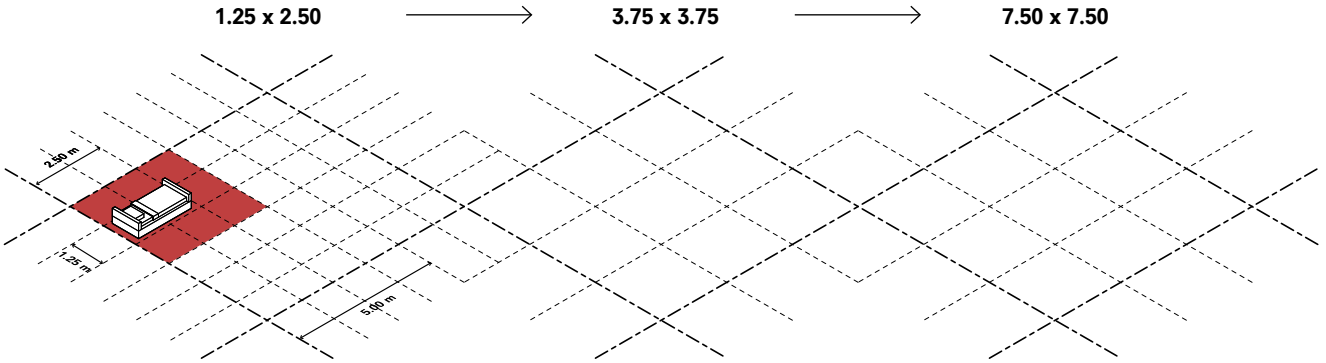
AUTOMATION & OPTIMISATION

FROM PASSIVE HOSPITAL
TO A FLEXIBLE HOSPITAL STRUCTURE

SUB-RESEARCH QUESTION

“HOW CAN WE CREATE A LIVING HOSPITAL STRUCTURE, THAT CAN GROW, UPGRADE, AND GET AUGMENTED THROUGH TIME?”

MODULAR GRID

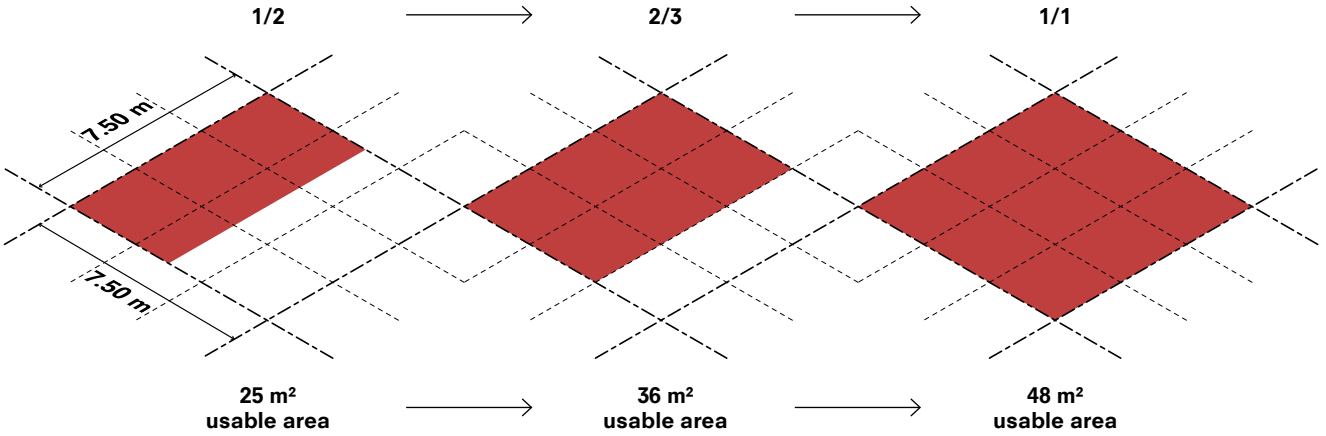


PATIENT ROOM AS STARTING POINT

7.5 X 7.5 MODULE

NICKL-WELLER, C., & NICKI, H. (2021). ARCHITECTURE FOR HEALTH.

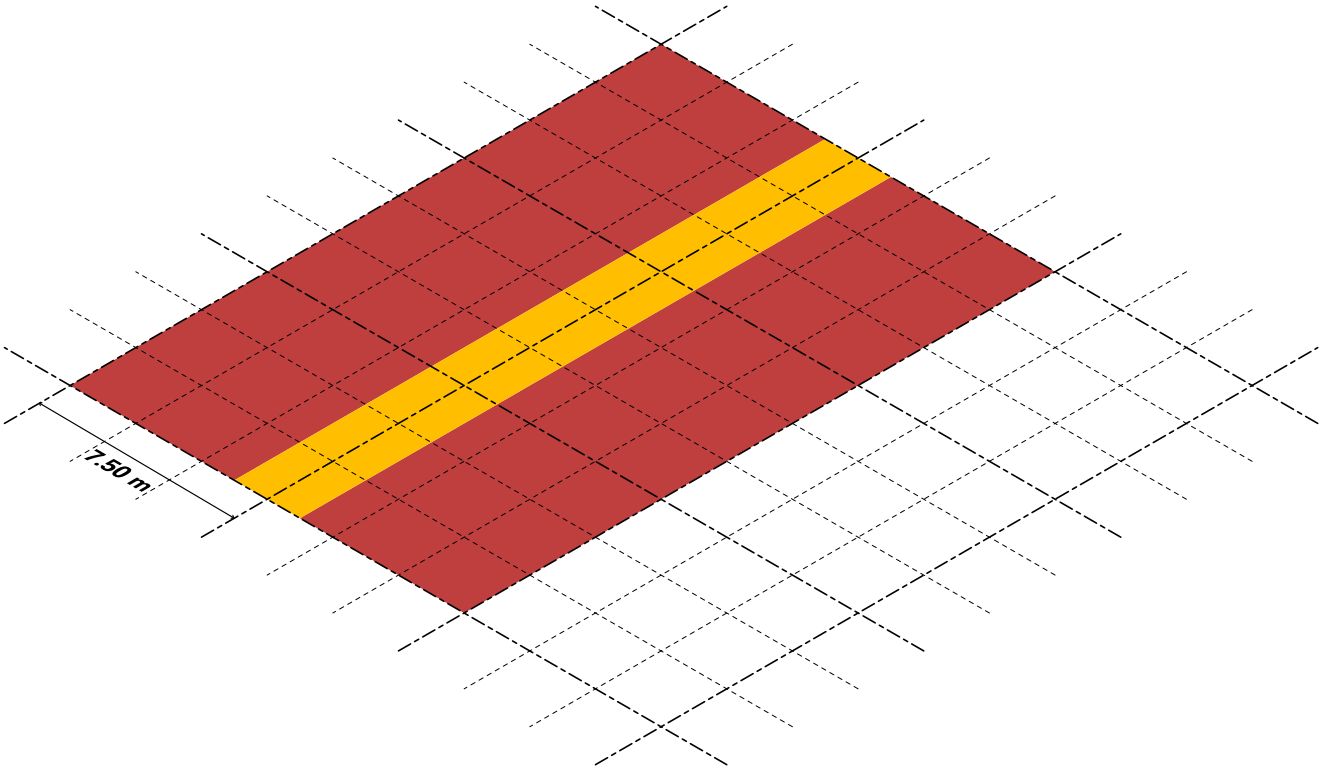
MODULAR GRID



MODULAR SIZING ORDER

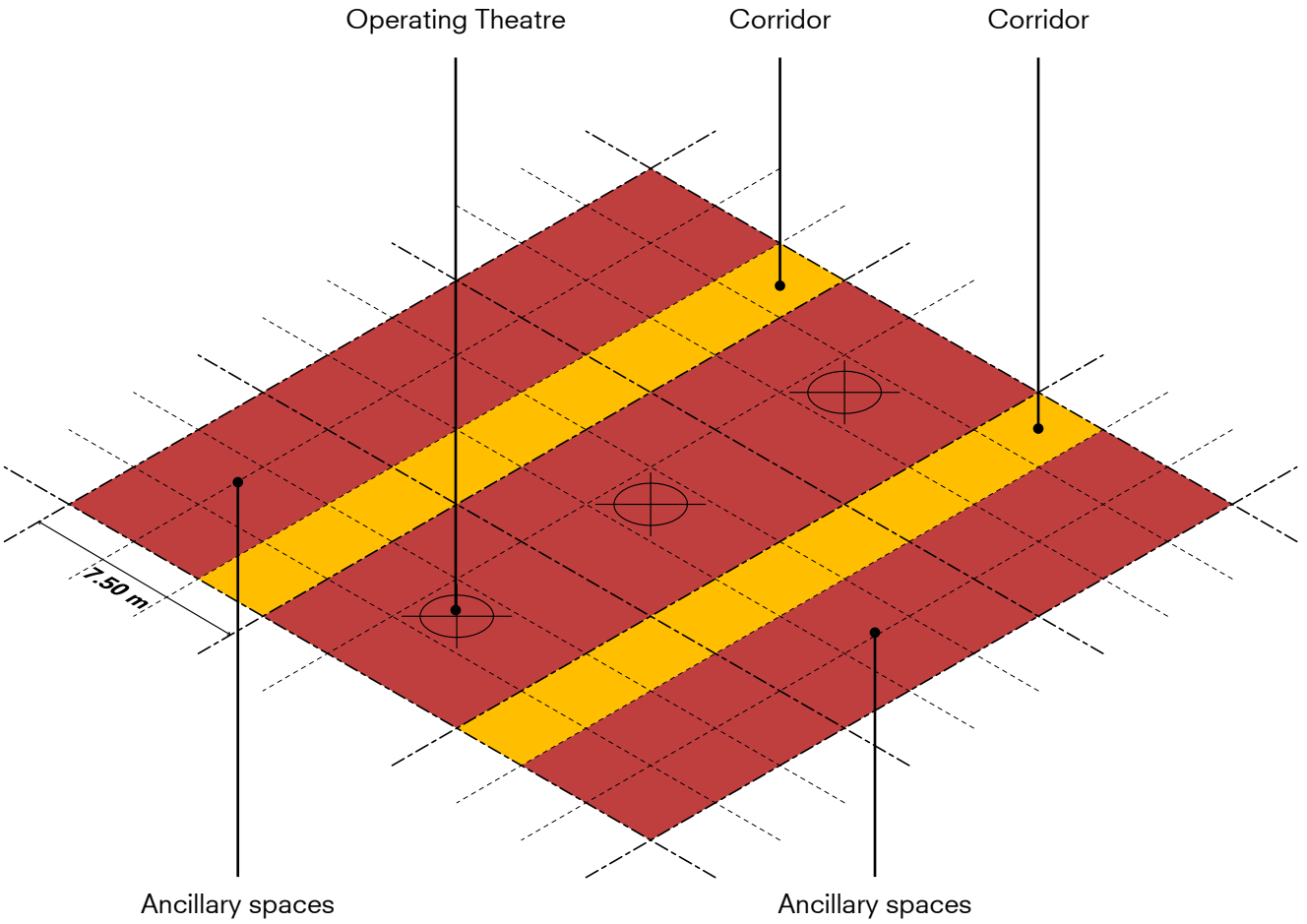
NICKL-WELLER, C., & NICKI, H. (2021). ARCHITECTURE FOR HEALTH.

MODULAR GRID



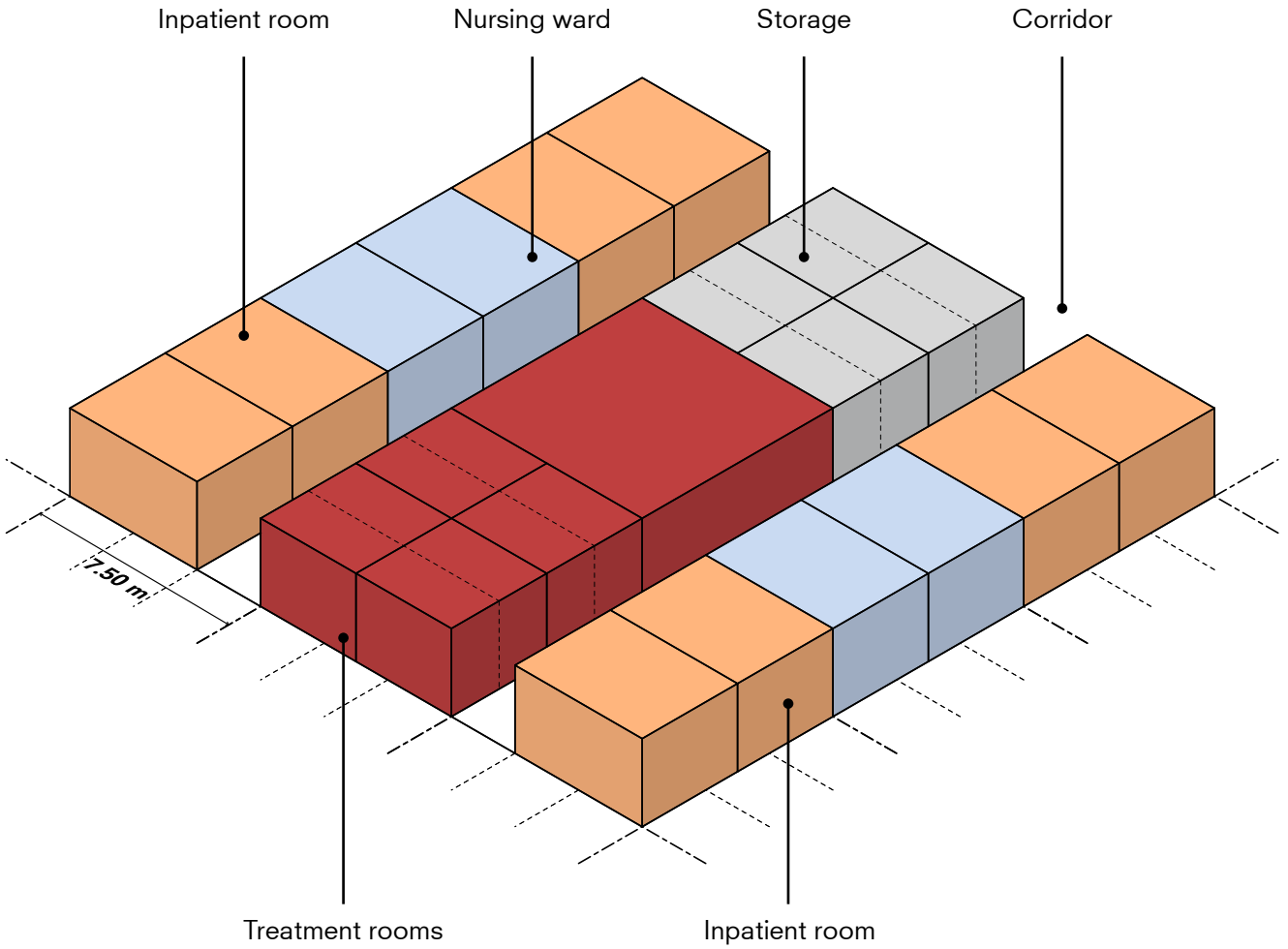
INPATIENT DEPARTMENT - 15M WIDE

MODULAR GRID



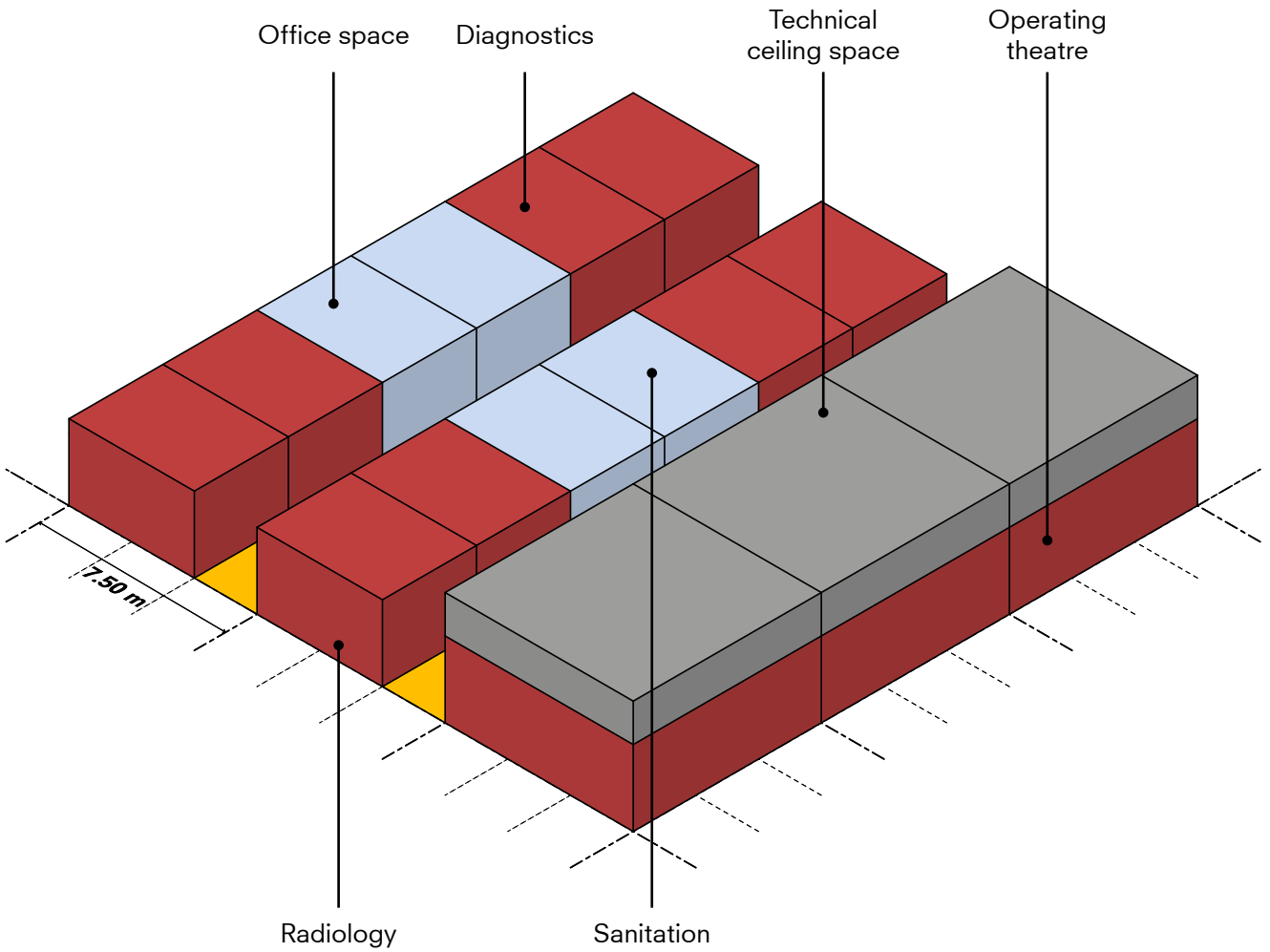
HOT FLOOR - 22,5M WIDE

MODULAR GRID



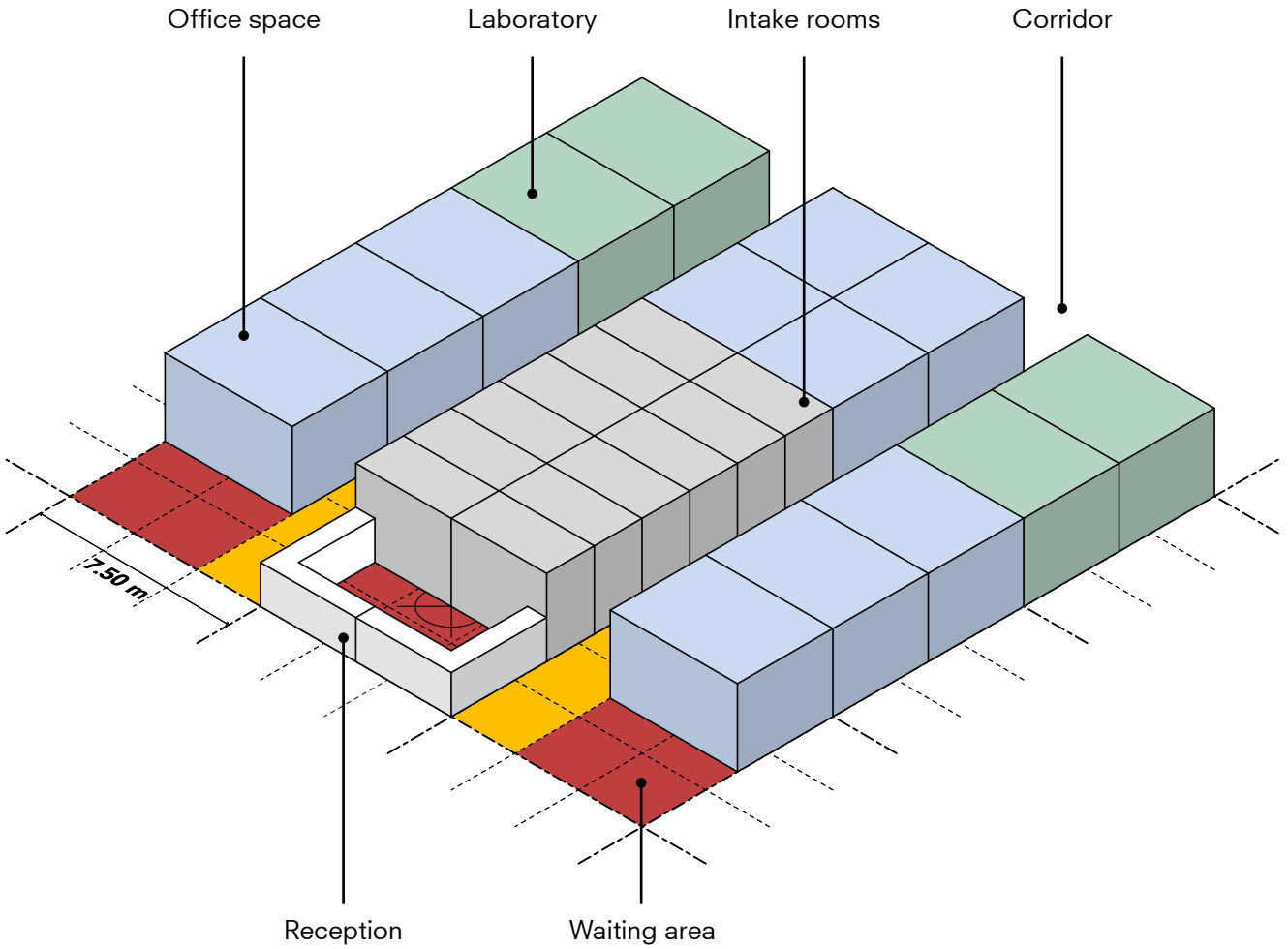
HOTEL - INTENSIVE CARE DEPARTMENT

MODULAR GRID



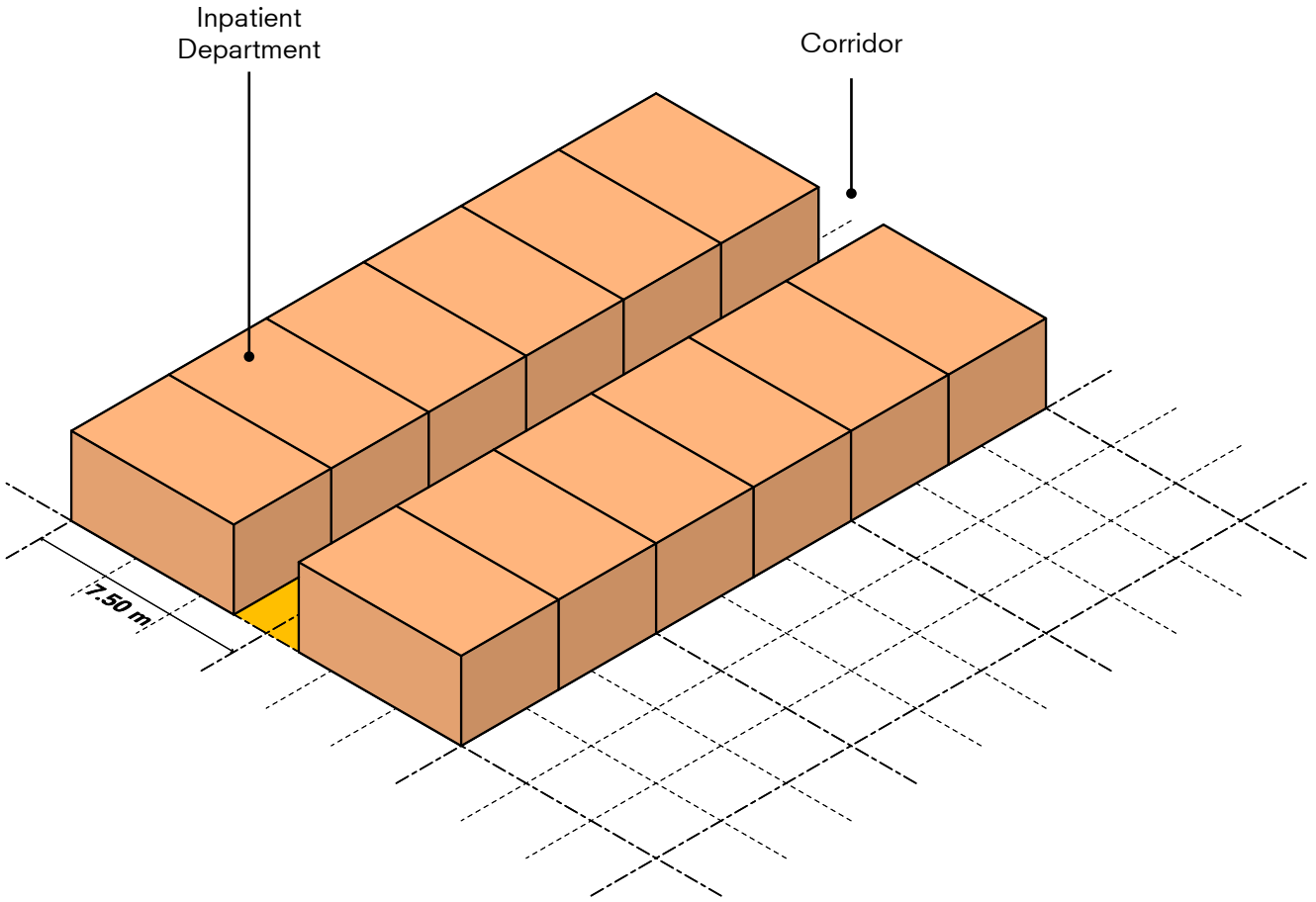
HOT FLOOR - DIAGNOSTICS & OPERATION

MODULAR GRID



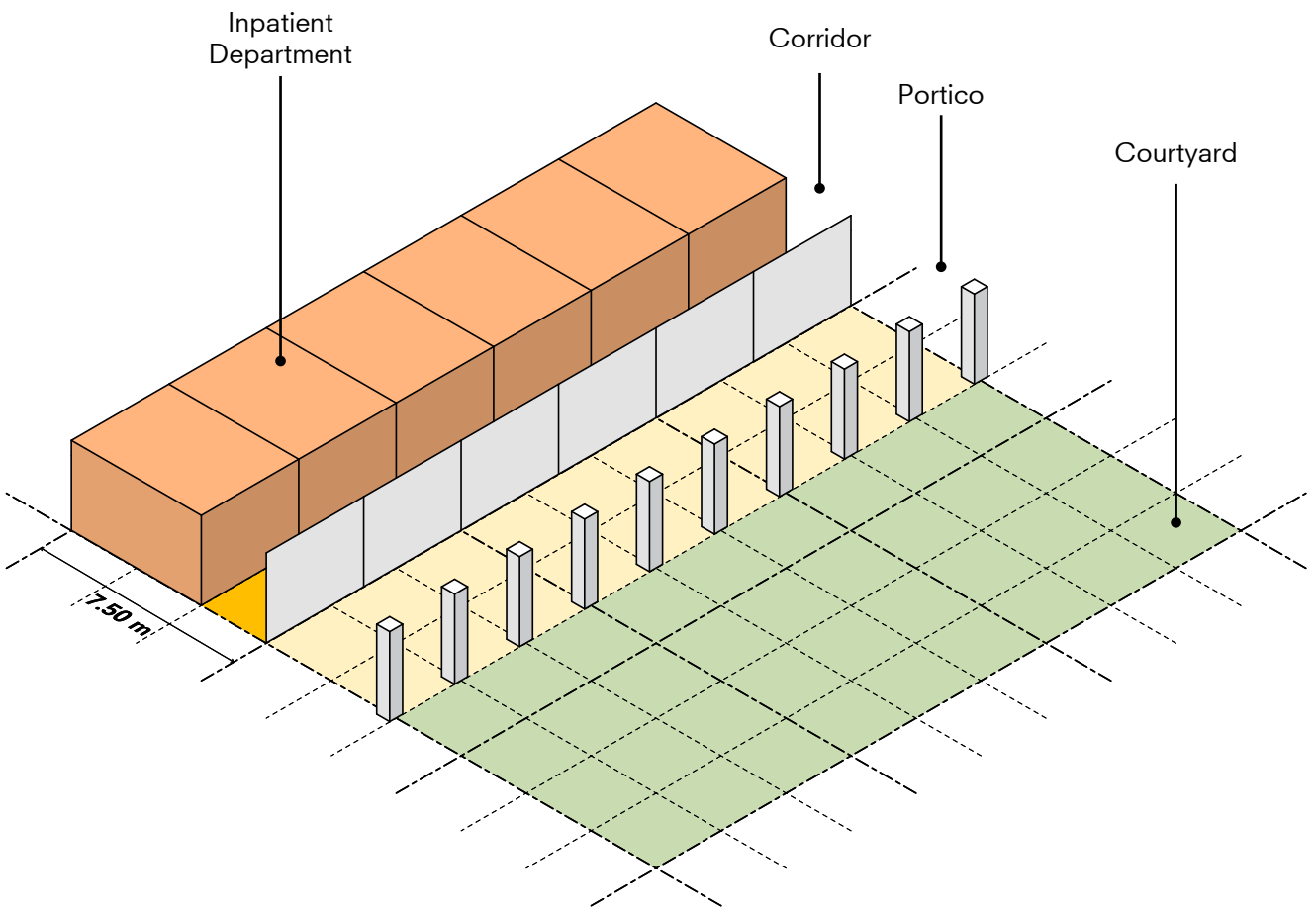
OFFICE - OUTPATIENT DEPARTMENT

MODULAR GRID



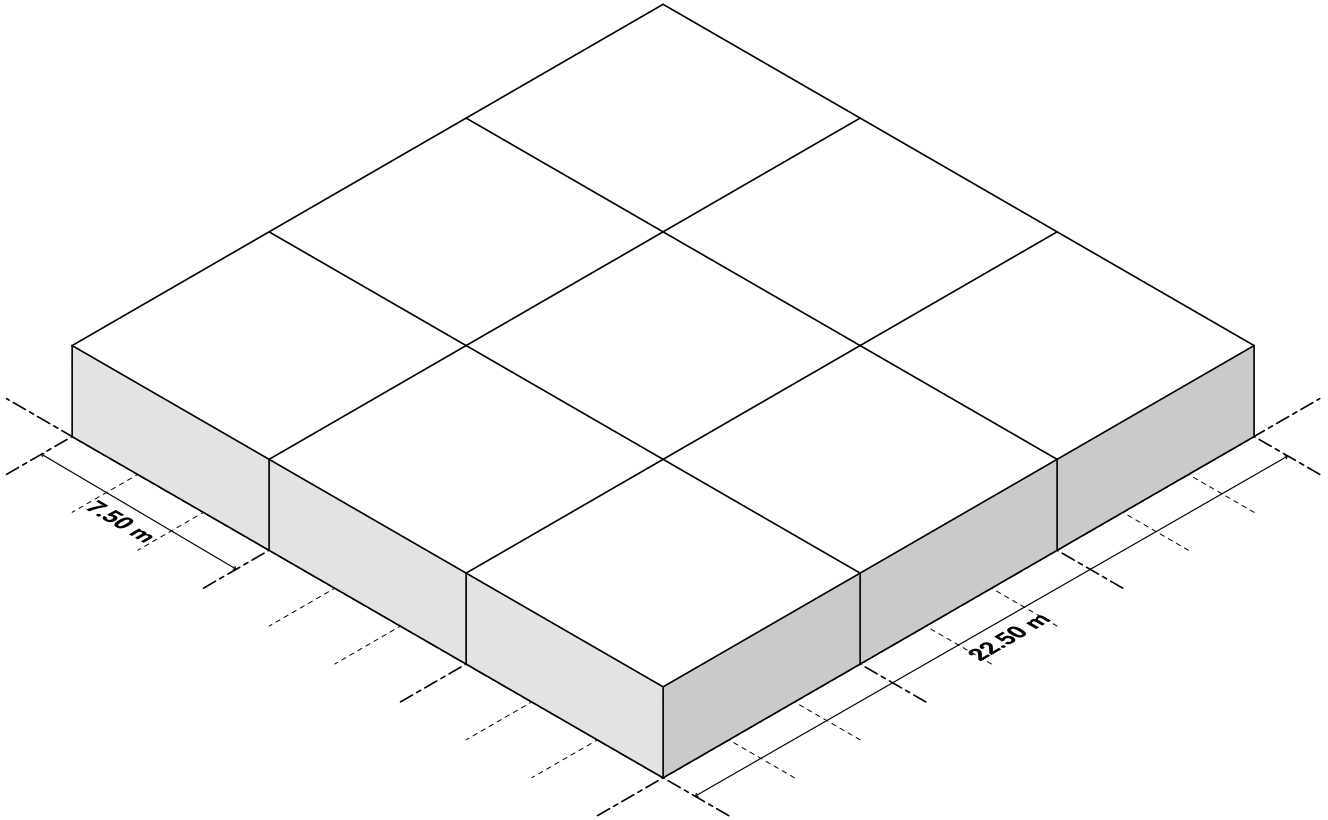
HOTEL - INPATIENT DEPARTMENT

MODULAR GRID



INPATIENT DEPARTMENT - COURTYARD

MODULAR GRID



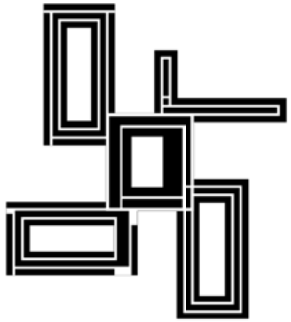
STANDARDISED MODULE 7.50 X 7.50 / 22.50 X 22.50

REDEFINING THE IMAGE

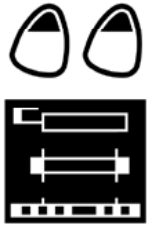
FROM A CLOSED HOSPITAL TO AN OPEN HOSPITAL

PROGRAM BENCHMARKING

AZ GROENINGE
GFA 125,000 M²
1100 BEDS

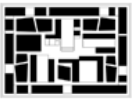


REY JUAN CARLOS HOSPITAL
GFA 72,000 M²
260 BEDS



ZAANS MED. CENTRUM
GFA 31,000 M²
299 BEDS

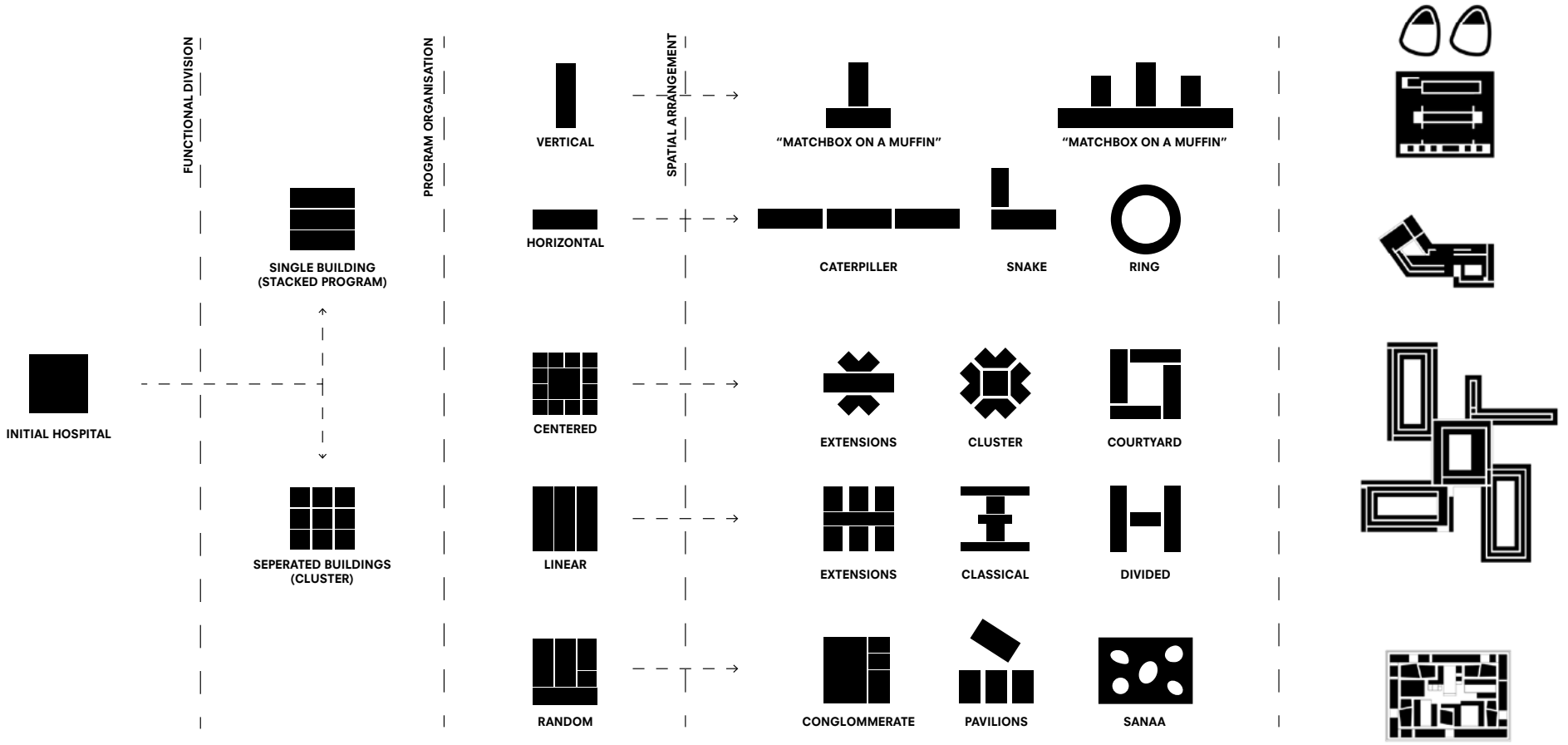
REHAB
GFA 23,221 M²
92 BEDS



UMC IMAGING CENTRE
GFA 15,000 M²
0 BEDS

XL **L** **M** **S**

ORGANISATION STRATEGIES



THE ARCHITECTURE OF HOSPITALS, COR WAGENAAR (2006)

ORGANISATION STRATEGIES

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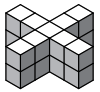
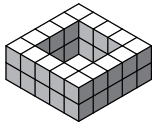
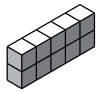
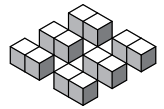
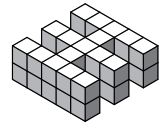
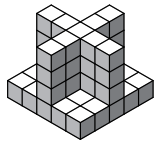
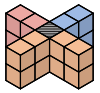
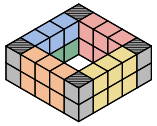
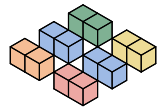
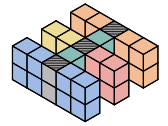
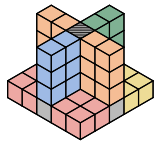
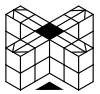
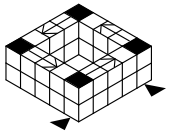
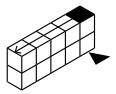
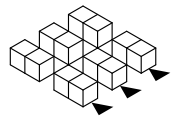
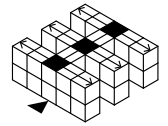
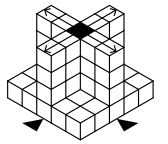
STRUCTURE						
ORGANISATION						
FLOWS						

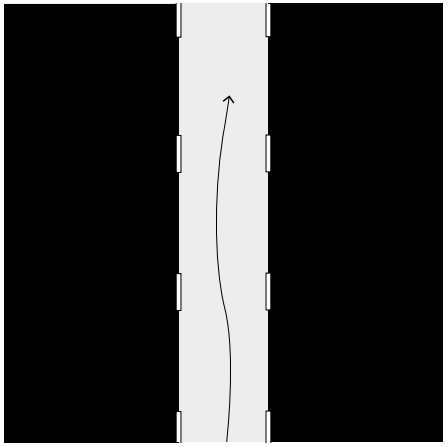
NICKL-WELLER, C., & NICKI, H. (2021). ARCHITECTURE FOR HEALTH. BRAUN PUBLISHING.

REDEFINING THE IMAGE

FROM A HOSPITAL FOR ONLY PATIENTS TO A HOSPITAL FOR SOCIETY

REDEFININIG THE STANDARD - CIRCULATION

“THE STANDARD”



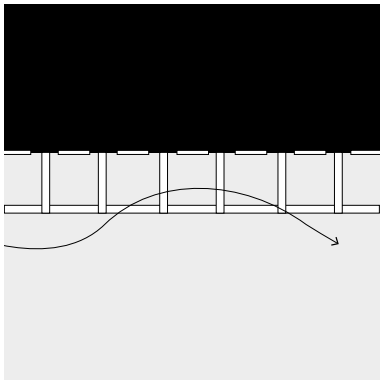
CORRIDOR

[2.25 - 3.00 M WIDE]

CONCLUSION #1

RE-DEFINE PUBLIC SPACE

PUBLIC TRANSITION SPACES



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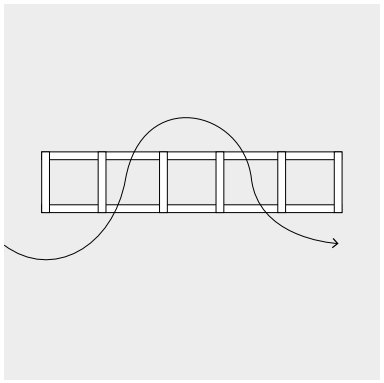

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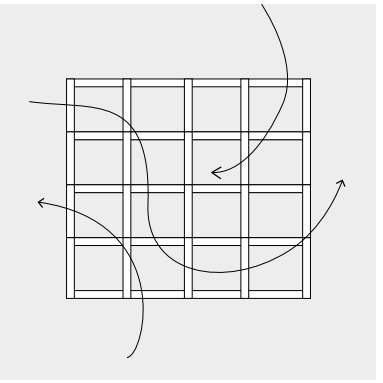
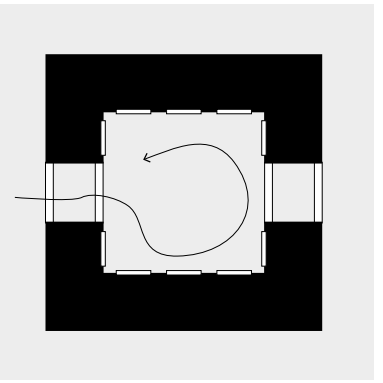
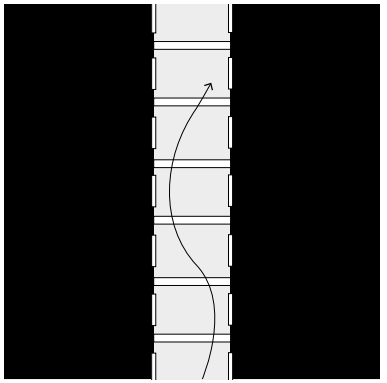


COVERED SQUARE



URBAN COURTYARD



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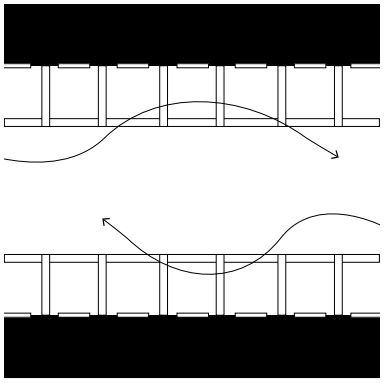
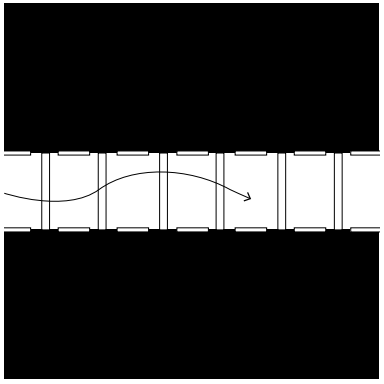
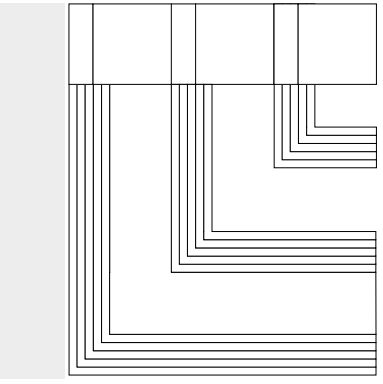


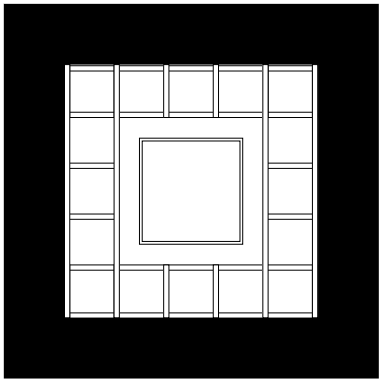
STREET



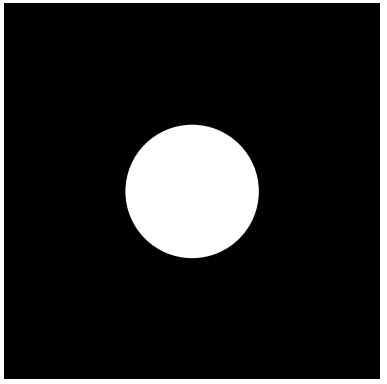
BRIDGE



STAIRS



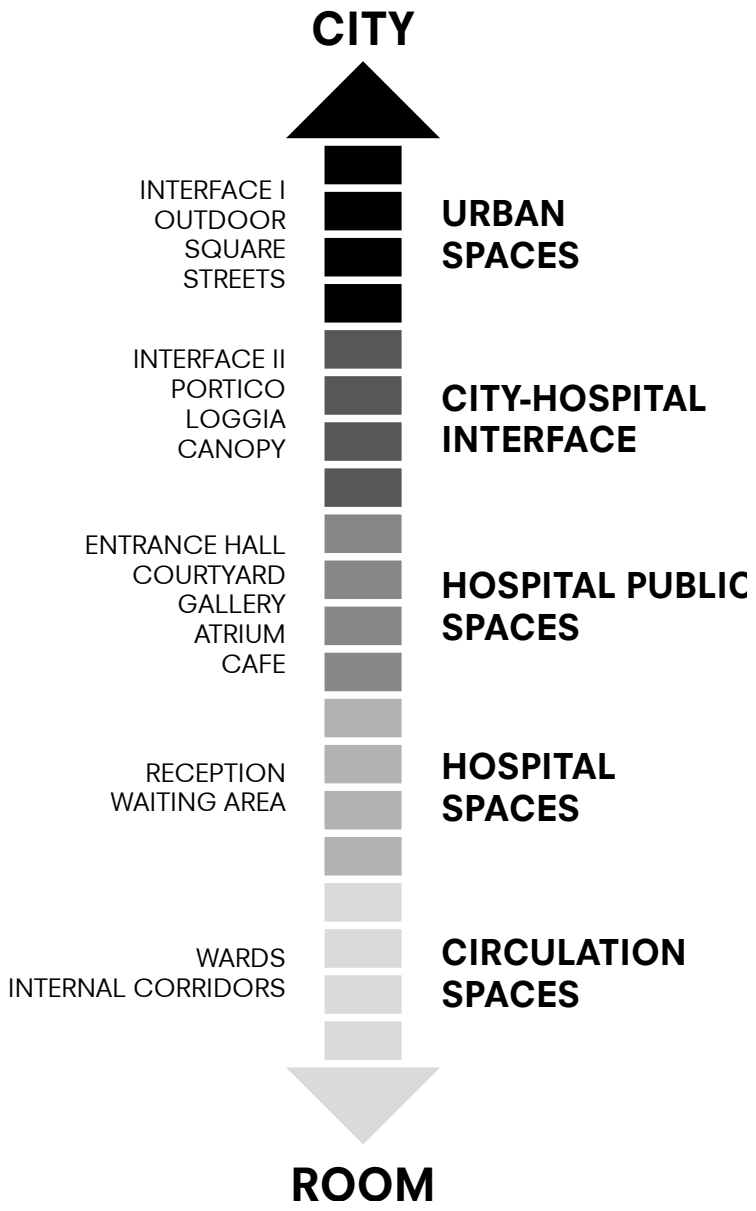
GREEN COURTYARD



URBAN TERRACE

THE ARCHITECTURE OF PUBLIC SPACE (2023)
MARIA CLAUDIA CLEMENTE, FRANCESCO ISIDORI

PUBLIC SPACE AS TRANSITION SPACE



DESIGNING PUBLIC SPACES IN HOSPITALS - NICOLETTA SETOLA, SABRINA BORGIANNI (2016)

ARCHITECTURAL THRESHOLDS

fence

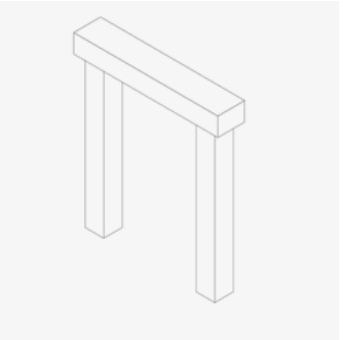
portico

curtain

door

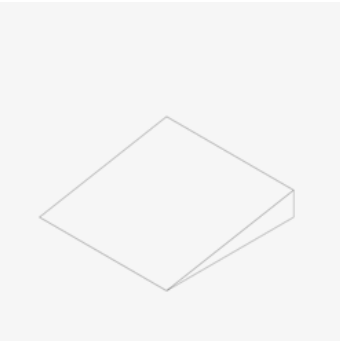
SPATIAL THRESHOLDS

+ more

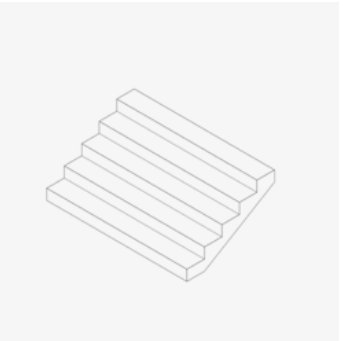


gateway

pergola



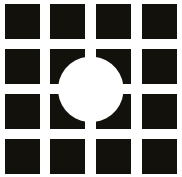
slope



stairs

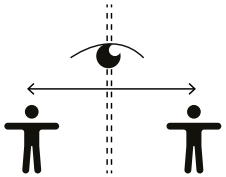
BUILDING ACCESSIBILITY

A pattern language: towns, buildings, construction - relevant patterns



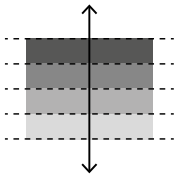
#106 - Positive Outdoor Space

The design of intentional outdoor space, that invites the public through natural extensions of the sidewalk or street, where the thresholds are formed by the building itself, landscaping, or street furniture.



#162 - Street Windows

To facilitate interaction between indoor and outdoor activities on the street, street windows need to facilitate transparency, which can stimulate interest and engagement between the interior and exterior world.

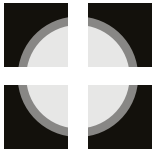


#112 - Entrance Transition

Creating a transition area between the street and the building's interior helps ease the movement from public to private space and can make the entrance more inviting. This can be achieved through architectural elements like a recessed doorway, a canopy, steps, or different pavement materials.

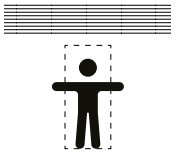
#136 - Building Fronts

This principle focuses on how the front of the building interacts with the public space. A continuous and engaging front can define the street edge and contribute to a sense of security and comfort for pedestrians. Variations in depth and height can add interest and break the monotony, making the facade more dynamic.



#150 - Activity Pockets

Niches or small semi-public spaces within the plinth can encourage people to stop, sit, and interact. The pockets could include features like benches, display windows, art, installations, or greenery.



#204 - Human Scale

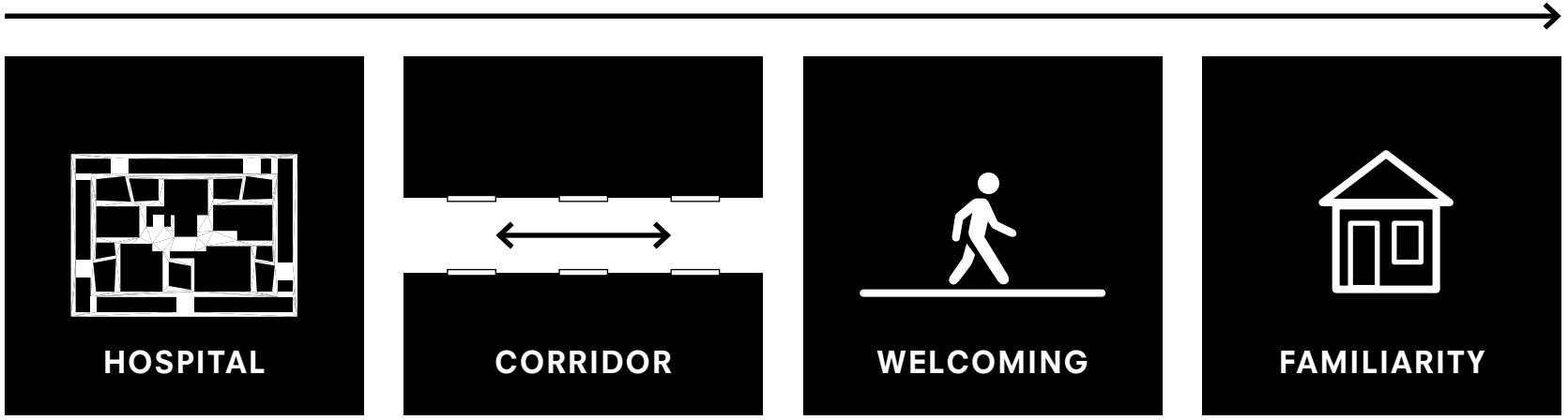
By considering the scale and size of architectural elements like doorways, windows, and other details, the principle of human scale can be taken into account to ensure that they are relatable to that of the human body. Textures, materials, and elements visible at eye level should be refined and engaging to draw people in and make the public space more vibrant and interactive.

Alexander, C., Ishikawa, S., Silverstein, M., Jacobson, M., Fiksdahl-King, I., & Angel, S. (1977). A pattern language: towns, buildings, construction (Vol. 1, Issue 5). https://ci.nii.ac.jp/ncid/BA00163982

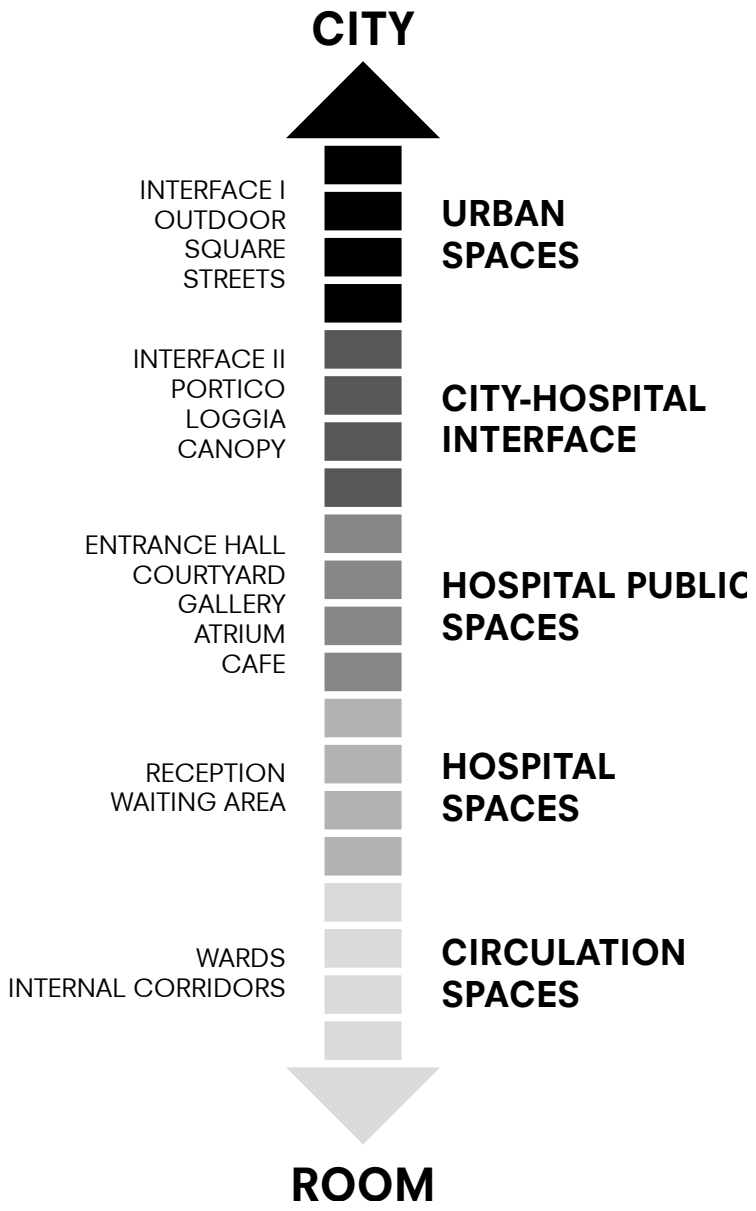
CONCLUSION #1

RE-MATERIALISE

REDEFINING PUBLIC SPACE

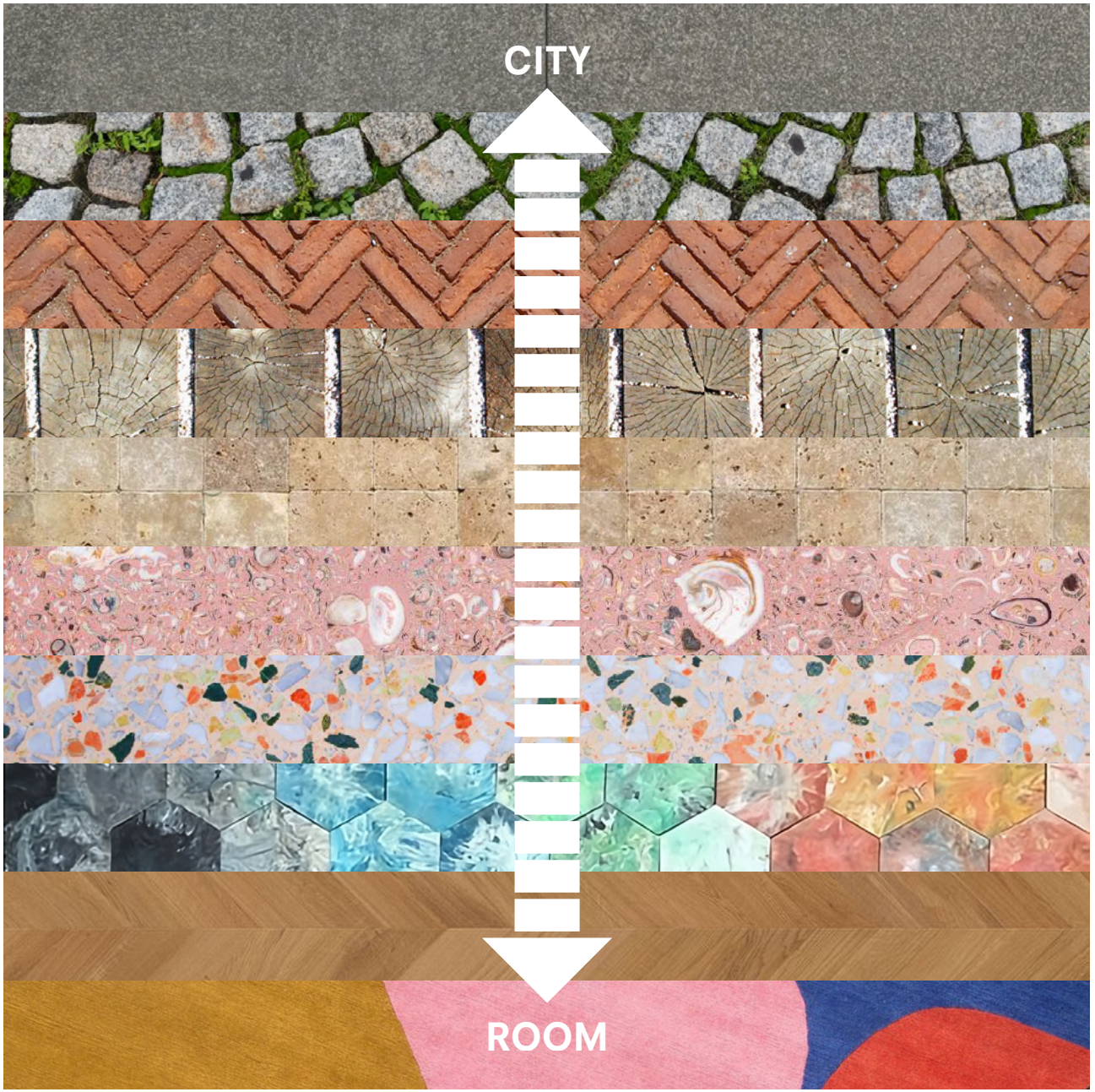


PUBLIC SPACE AS TRANSITION SPACE



DESIGNING PUBLIC SPACES IN HOSPITALS - NICOLETTA SETOLA, SABRINA BORGIANNI (2016)

NOTION OF FAMILIARITY

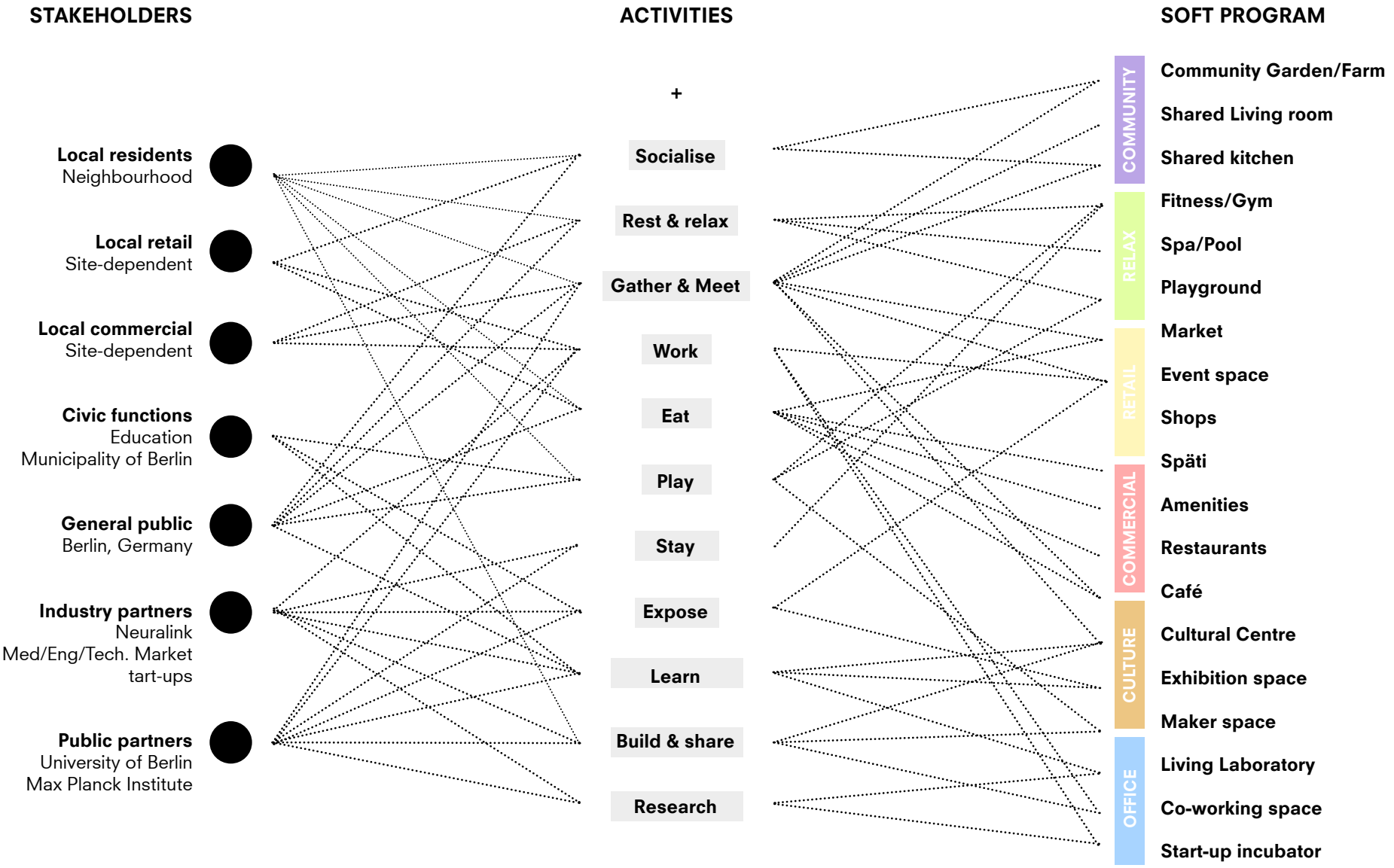


MATERIAL REPRESENTATION

CONCLUSION #1

RE-PROGRAM

INDICATIVE ADDED PROGRAM



PROGRAM MIX

CORE PROGRAM

HOTEL

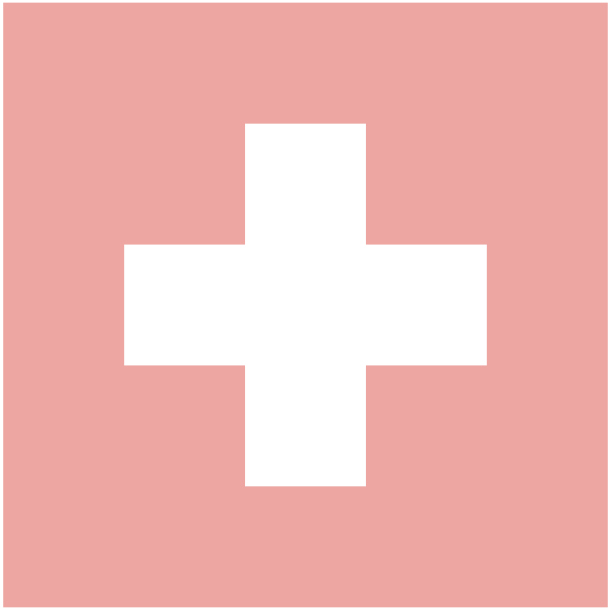
OFFICE

HOT FLOOR

FACTORY

PROGRAM MIX

CORE PROGRAM



PROGRAM MIX

CORE PROGRAM

+

SOFT PROGRAM

Community Garden/Farm
Shared Living room
Shared kitchen

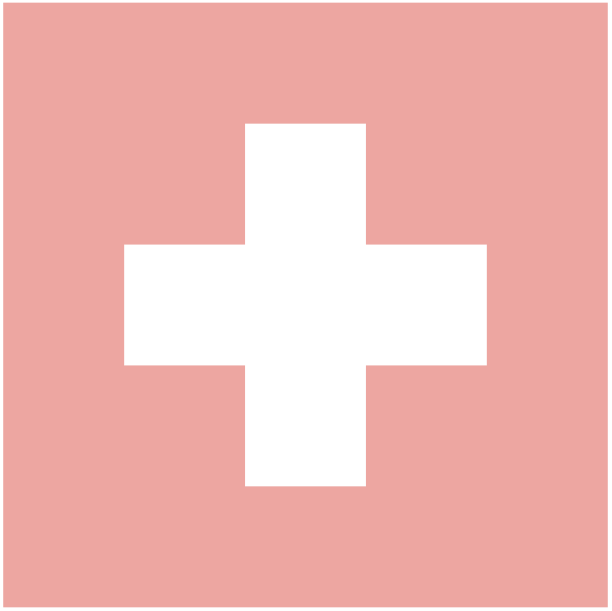
COMMUNITY

Cultural Centre
Exhibition space
Maker space

CULTURE

Market
Event Space
Shops - Späti

RETAIL



OFFICE & RESEACH

Living Laboratory
Co-working space
Start-up incubator

RELAX

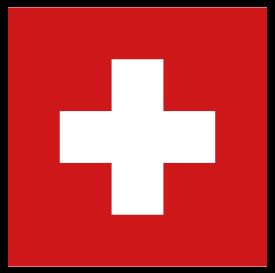
Fitness/Gym
Spa/Pool
Playground

COMMERCIAL

Amenities
Restaurants
Café

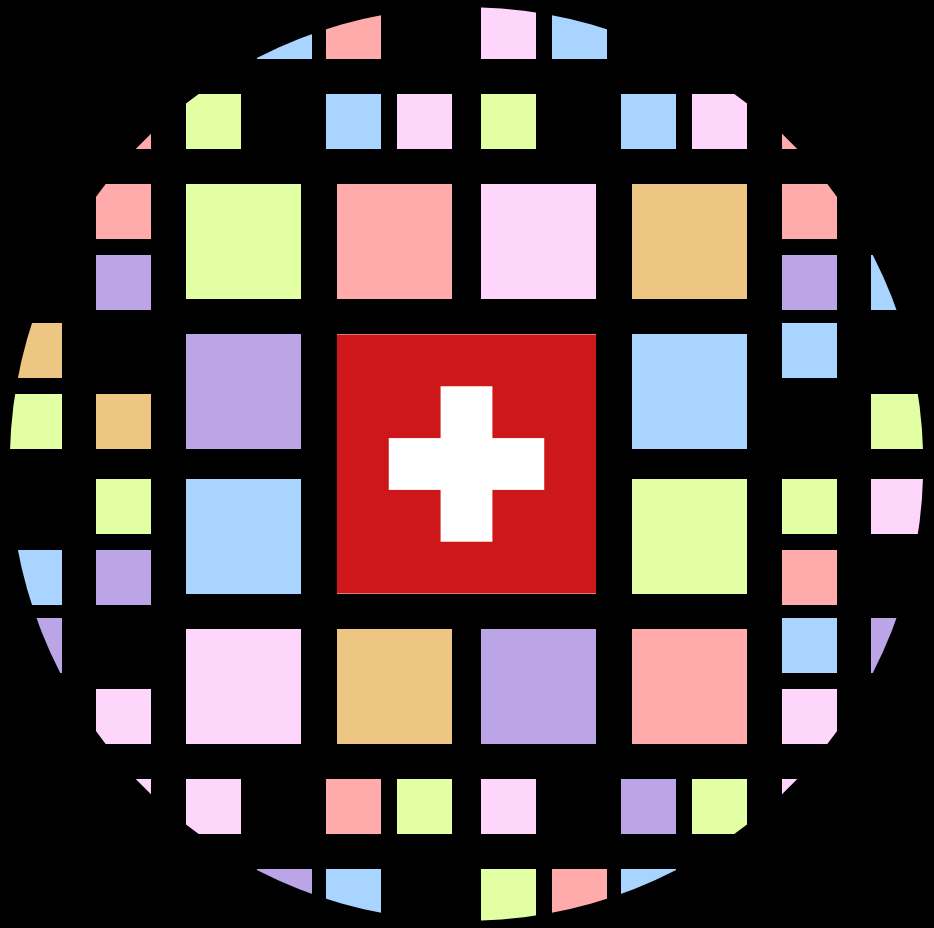
BUILDING A HOSPITAL,
IS NOT ABOUT DESIGNING ONE BUILDING,
IT IS A NEW PART OF THE URBAN FABRIC,
AN EXTENSION OF SOCIETY,
AND A PART OF THE CITY.

REDEFINING THE IMAGE



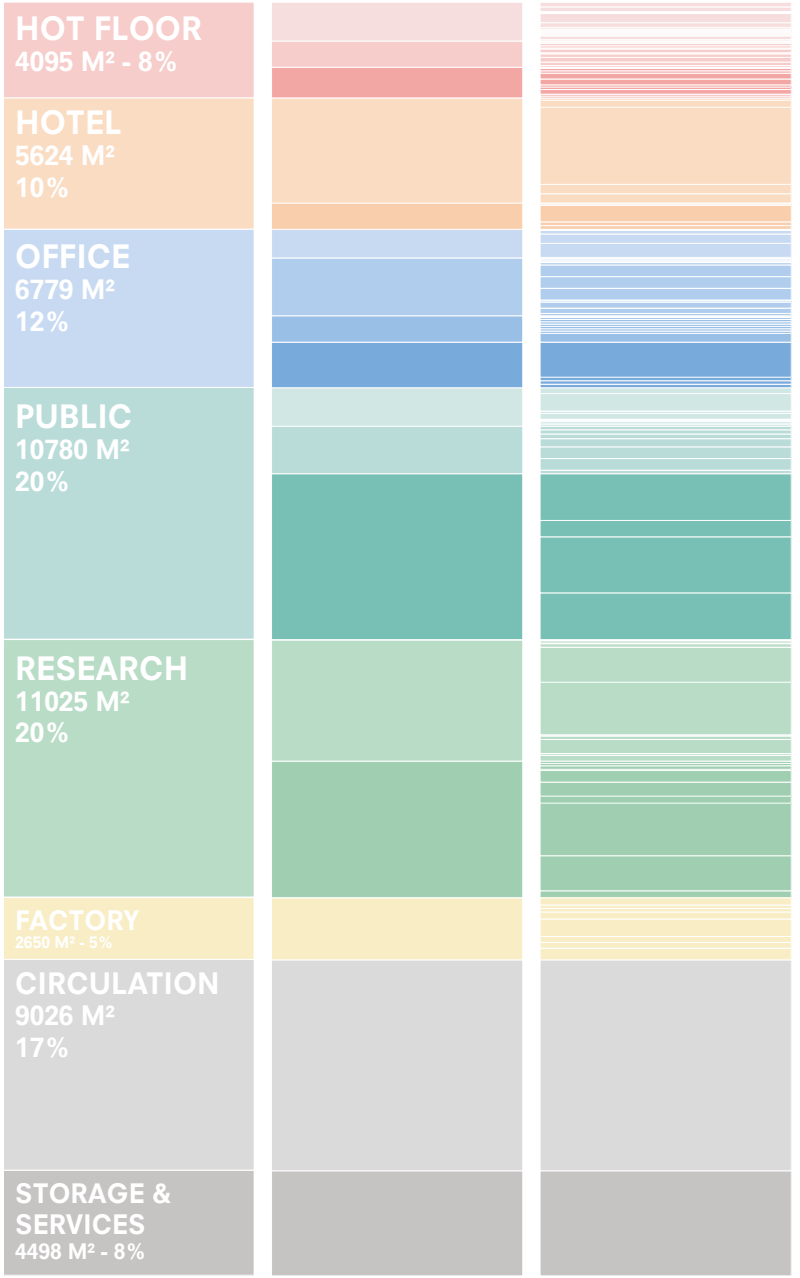
FROM SINGULAR IN-USE

REDEFINING THE IMAGE



TO MIXED-USE FOR SOCIETY

PROGRAM BREAKDOWN



TOTAL GFA
40,275 M²

WHERE?

GERMANY

BERLIN

FRIEDRICHSHAIN - KREUZBERG

GÖRLITZER PARK

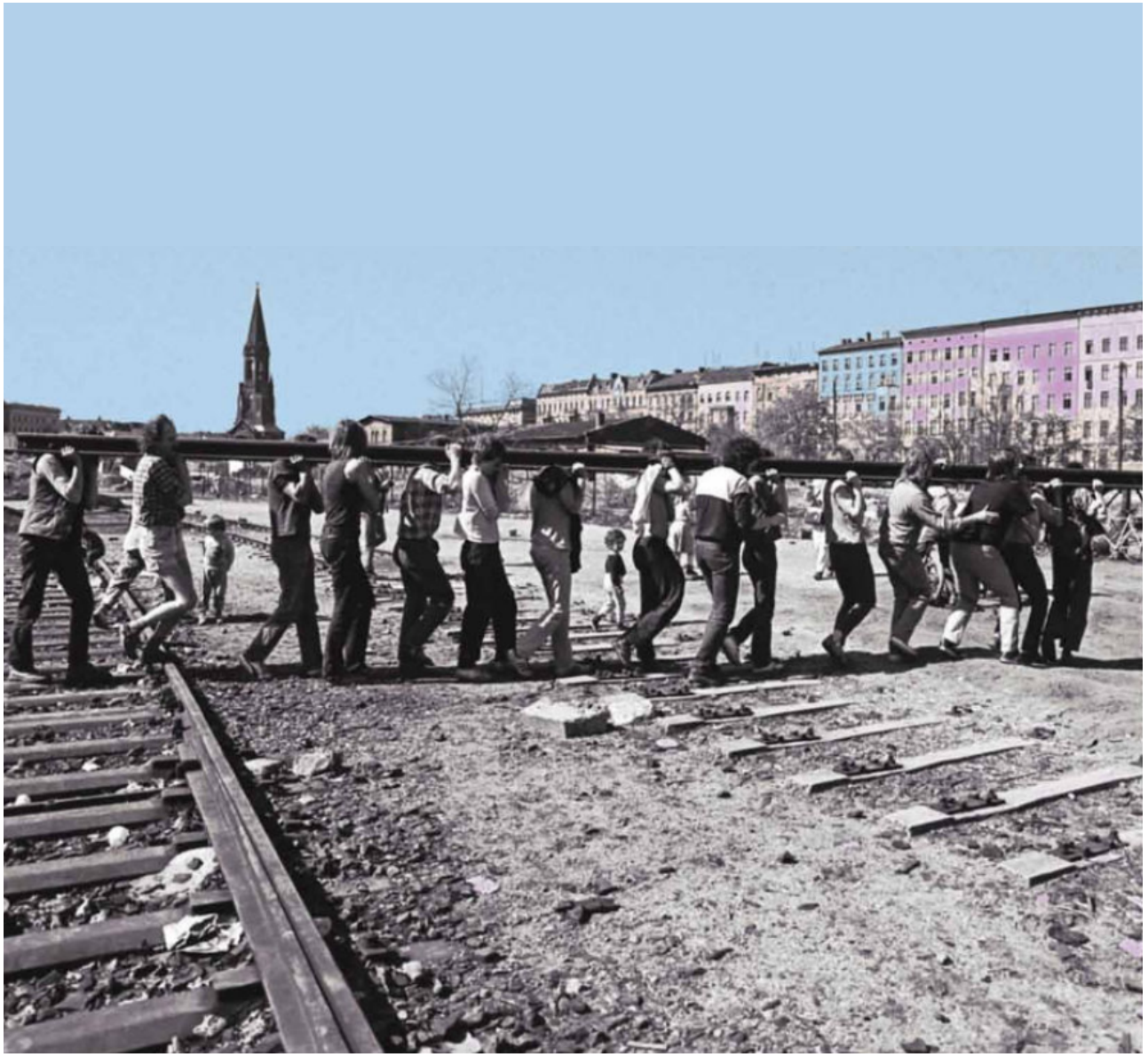
site

GÖRLITZER PARK

1961

site

NEIGHBOURHOOD PROTEST

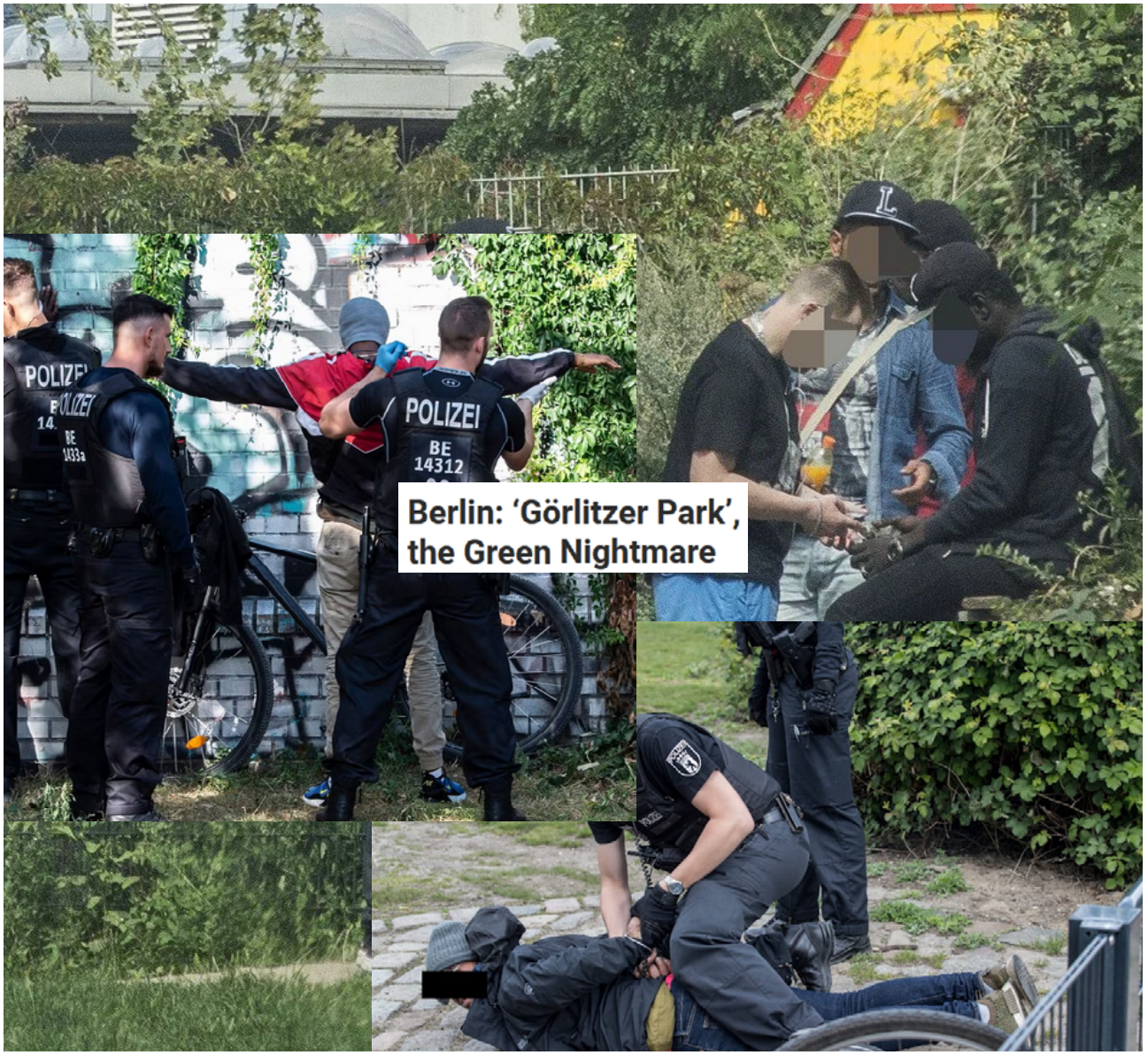


site

TERRAIN VAGUE

site

TODAY



2024

THE HOSPITAL SHOULD NOT ONLY AUGMENT THE HUMAN BODY, BUT ALSO ITS SURROUNDINGS.

BUILDING - IMPLICATIONS

SPECIALISED

FLEXIBLE

MULTI-PURPOSED

TRANSPARENT

PART OF THE CITY

MATERIALISATION

I. INTRODUCTION

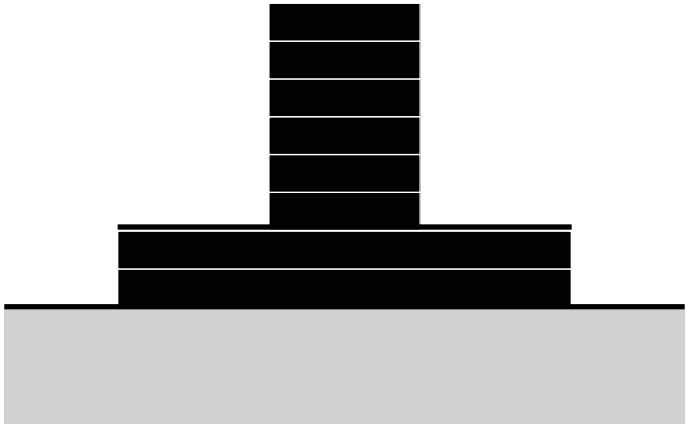
II. RESEARCH & DESIGN BRIEF

III. CONCEPT

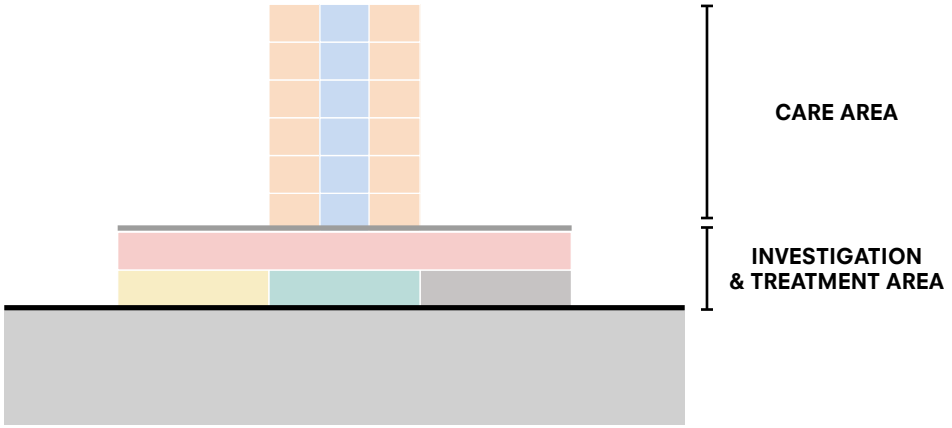
IV. IMPLEMENTATION

V. CONCLUSION

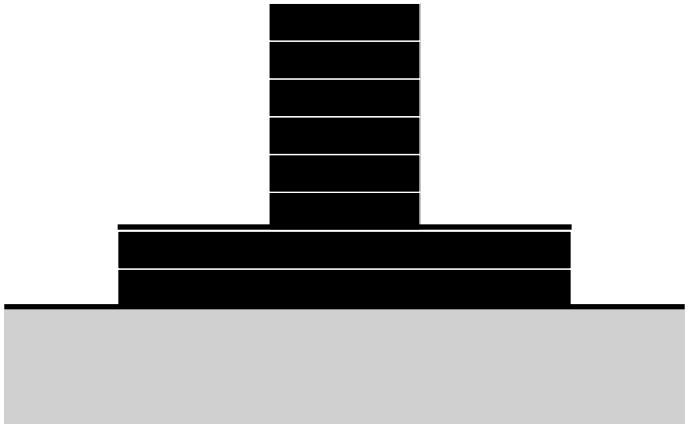
“PODIUM-TOWER” TYPOLOGY



VERTICAL PROGRAM SEPARATION

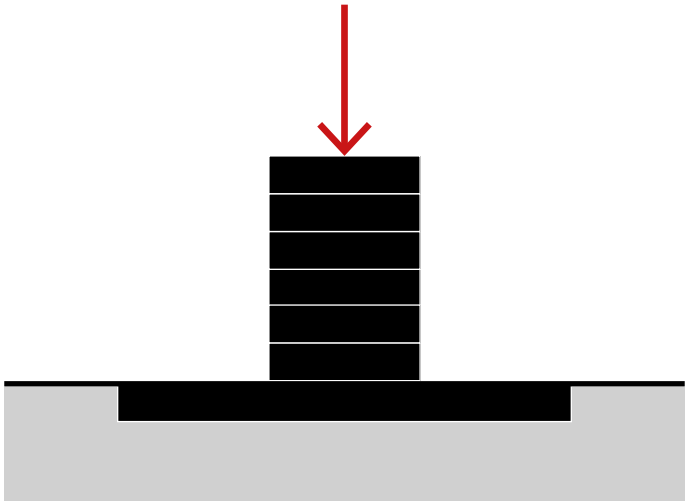


EXISTING HOSPITAL TYPOLOGY



DESIGN DEVELOPMENT

HIDE THE “MACHINE” UNDERGROUND

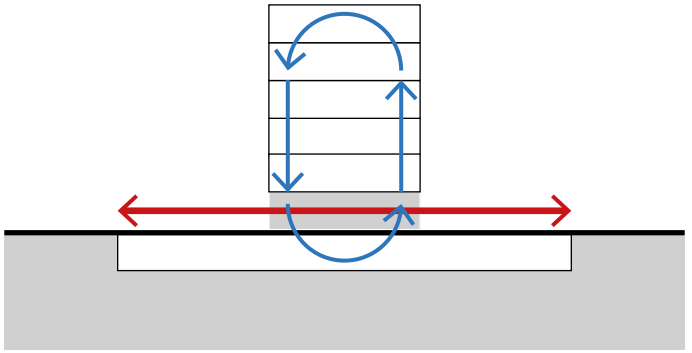


DESIGN DEVELOPMENT

OPEN UP THE GROUND FLOOR FOR PUBLIC FLOW

DESIGN DEVELOPMENT

INTERLINK FLOWS
BETWEEN PUBLIC AND PRIVATE

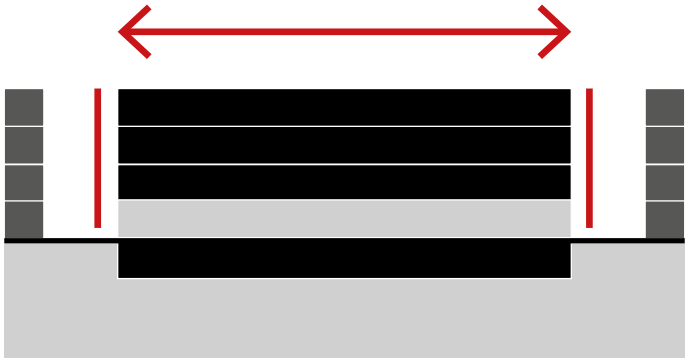


DESIGN DEVELOPMENT

OPEN UP THE GROUND FLOOR FOR PUBLIC FLOW

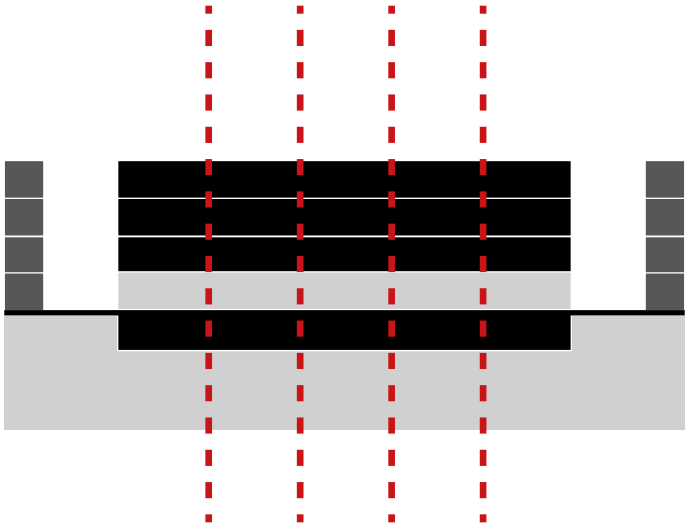
DESIGN DEVELOPMENT

EXTEND THE TOP TO CREATE A BERLIN BUILDING BLOCK



DESIGN DEVELOPMENT

MAKE INCISIONS TO
SPLIT THE BERLIN BUILDING BLOCK

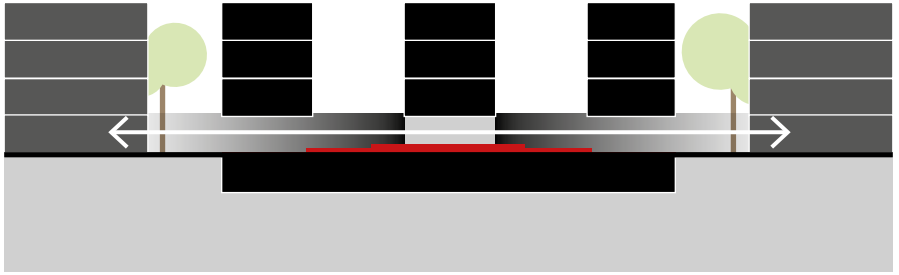


DESIGN DEVELOPMENT

**OPEN UP THE INNER COURTYARD
TO CREATE SPACE FOR THE PUBLIC**

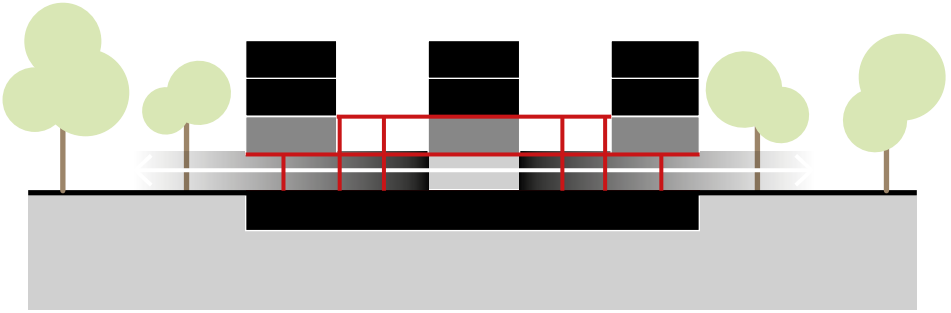
DESIGN DEVELOPMENT

USE THE POSITIVE SPACE
AS TRANSITION SPACE FOR THE CITY



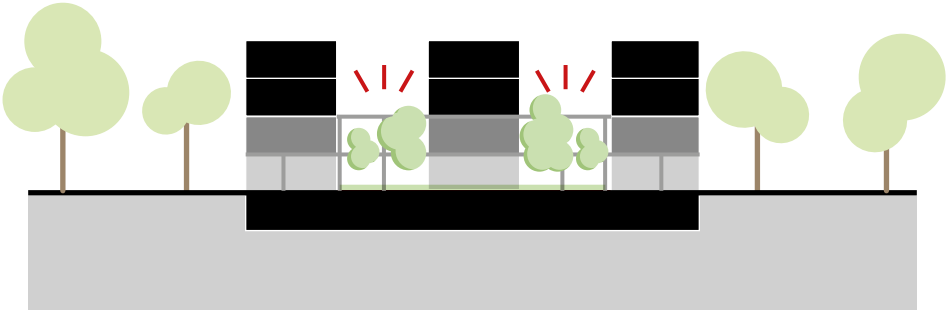
DESIGN DEVELOPMENT

USE THE POSITIVE SPACE
AS TRANSITION SPACE FOR THE PARK



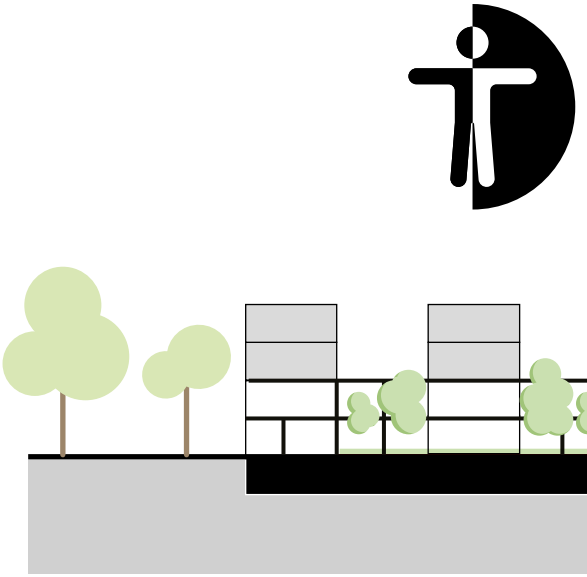
DESIGN DEVELOPMENT

AND AS OPPORTUNITY FOR CREATING QUALITY PUBLIC SPACES WITHIN GÖRLI



DESIGN DEVELOPMENT

A PLACE OF SYNTHESIS
AND FOR SYMBIOSIS

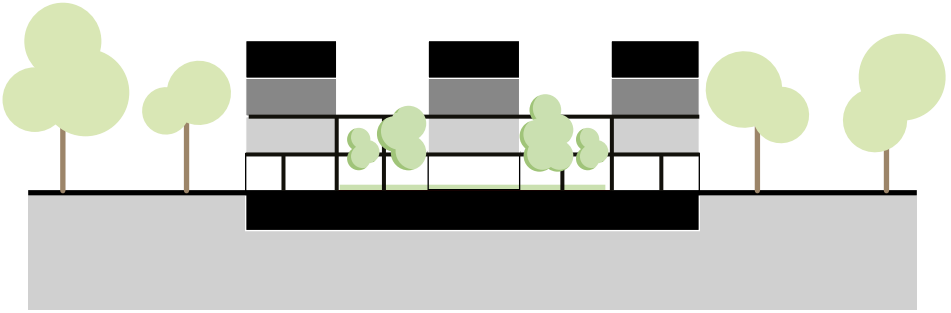


HUMAN
& MACHINE

AN AUTOMATED BASEMENT
FOCUSED ON MACHINE EFFICIENCY
& AN UPPER WORLD FOCUS ON HUMAN FREEDOM

DESIGN CONCEPT

A NEW HOSPITAL TYPOLOGY



A SYMBIOSIS
BETWEEN THE HOSPITAL & SOCIETY

I. INTRODUCTION

II. RESEARCH & DESIGN BRIEF

III. CONCEPT

IV. IMPLEMENTATION

V. CONCLUSION

XL - L - M - S - XS

XL - L - M - S - XS

“SITE - MASTERPLAN”

XL - **L** - M - S - XS

“STRUCTURE”

XL - L - **M** - S - XS

“PROGRAM - FLOWS”

XL - L - M - **S** - XS

“TRANSITIONS”

XL - L - M - S - **XS**

“DETAILS”

XL - L - M - S - XS

XL - L - M - S - XS

“SITE - MASTERPLAN”

GERMANY

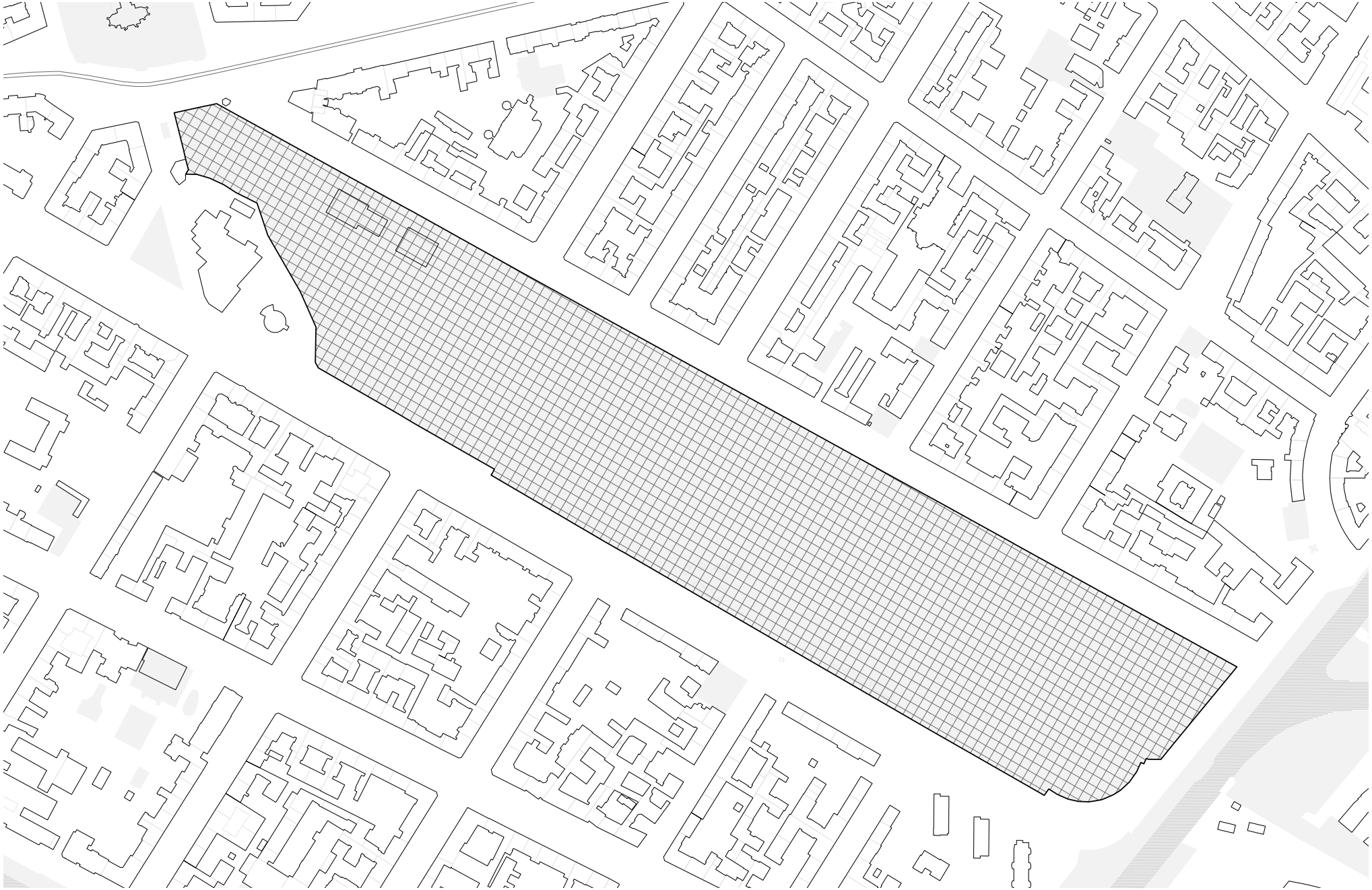
BERLIN

FRIEDRICHSHAIN - KREUZBERG

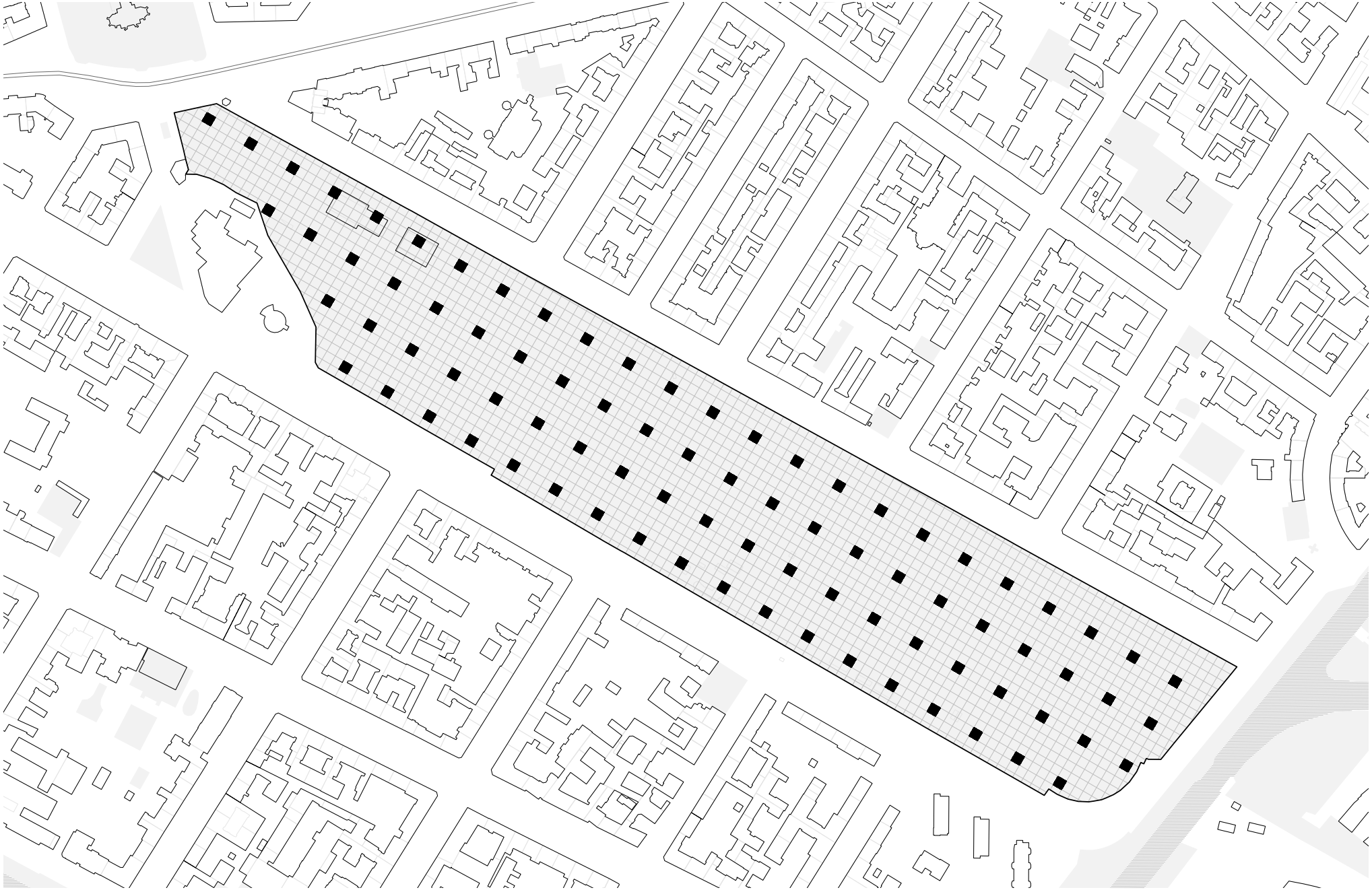
GÖRLITZER PARK

SITE - GÖRLITZER PARK

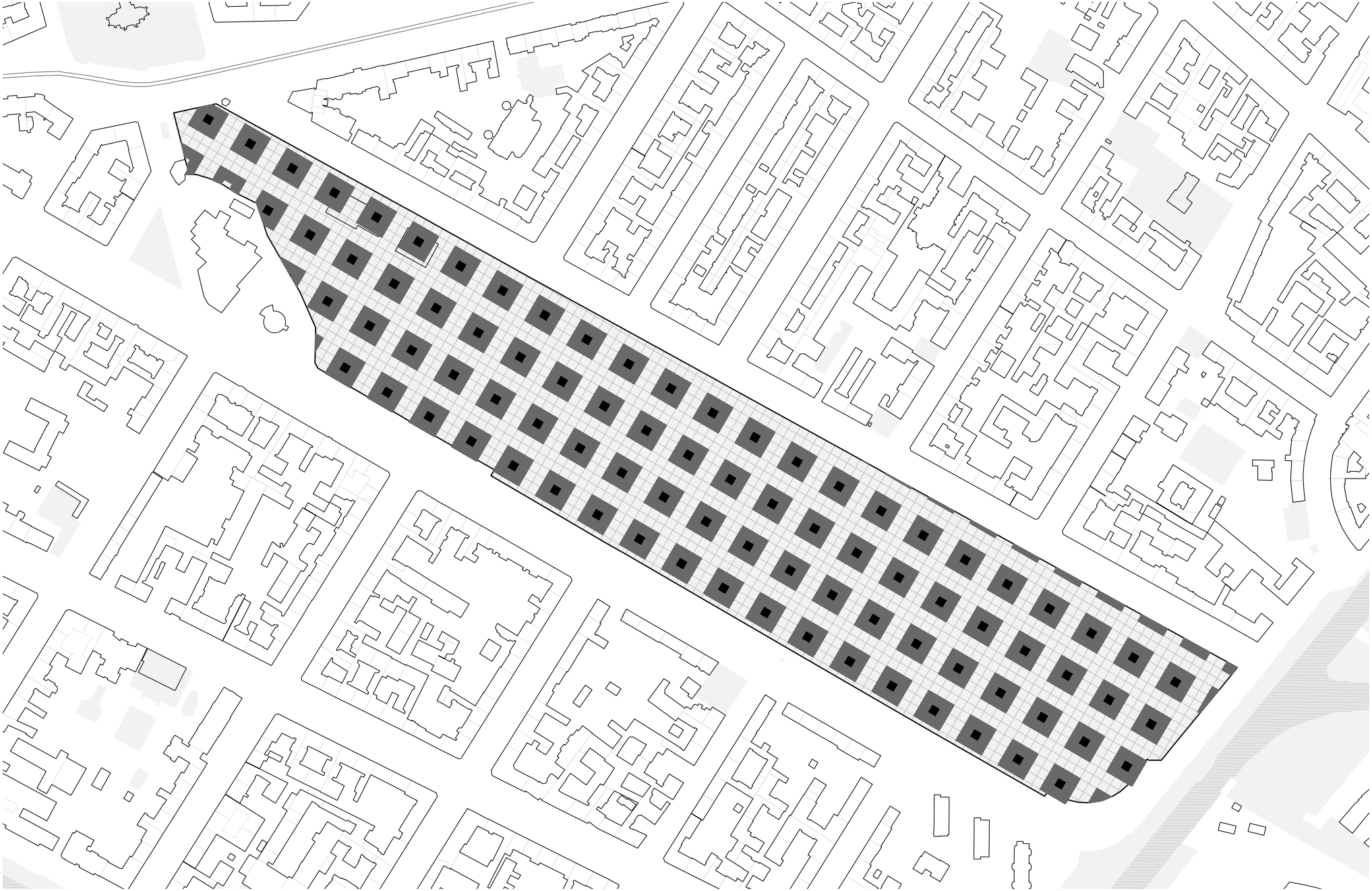
GRID PROJECTION



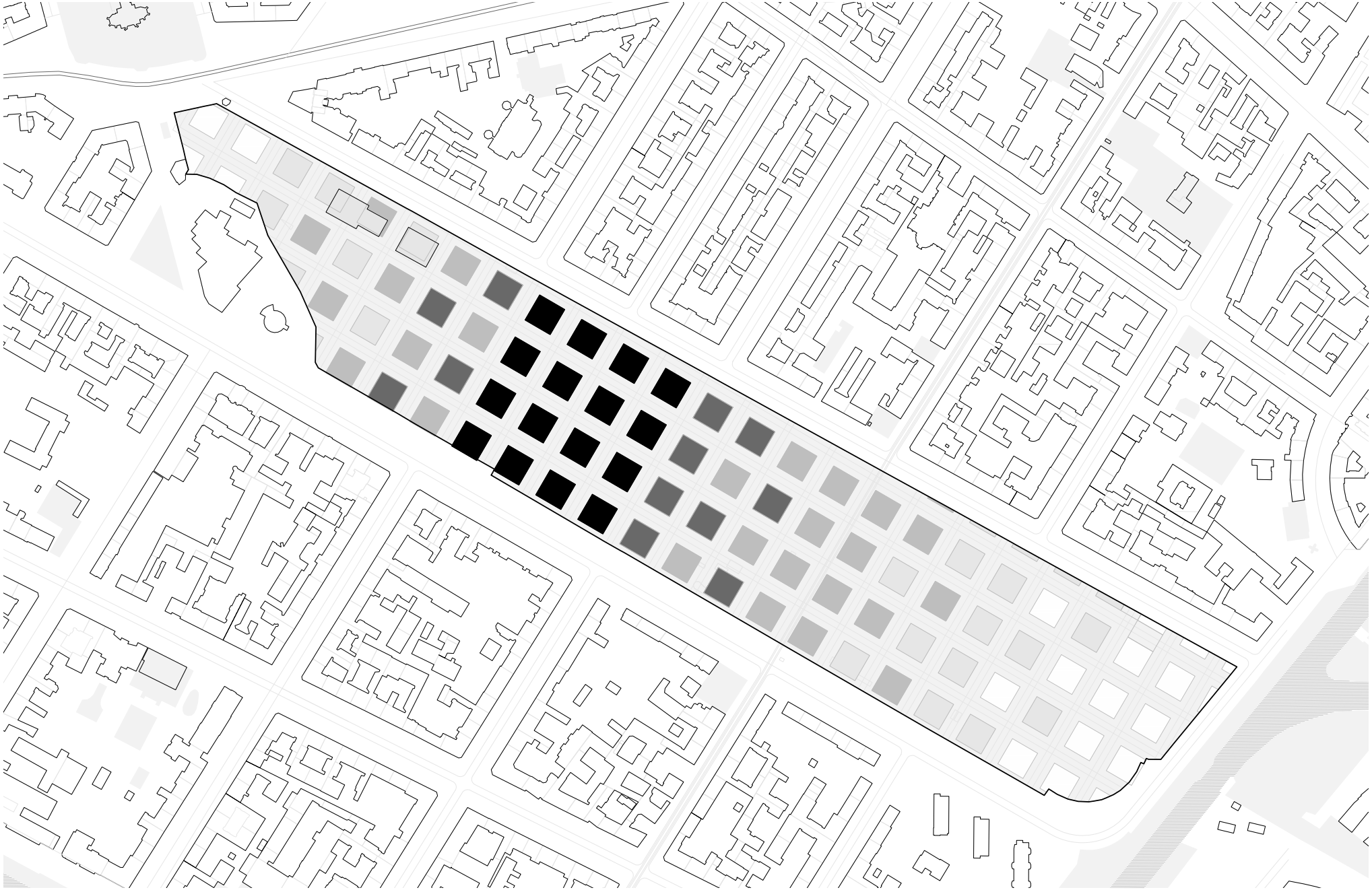
CORES



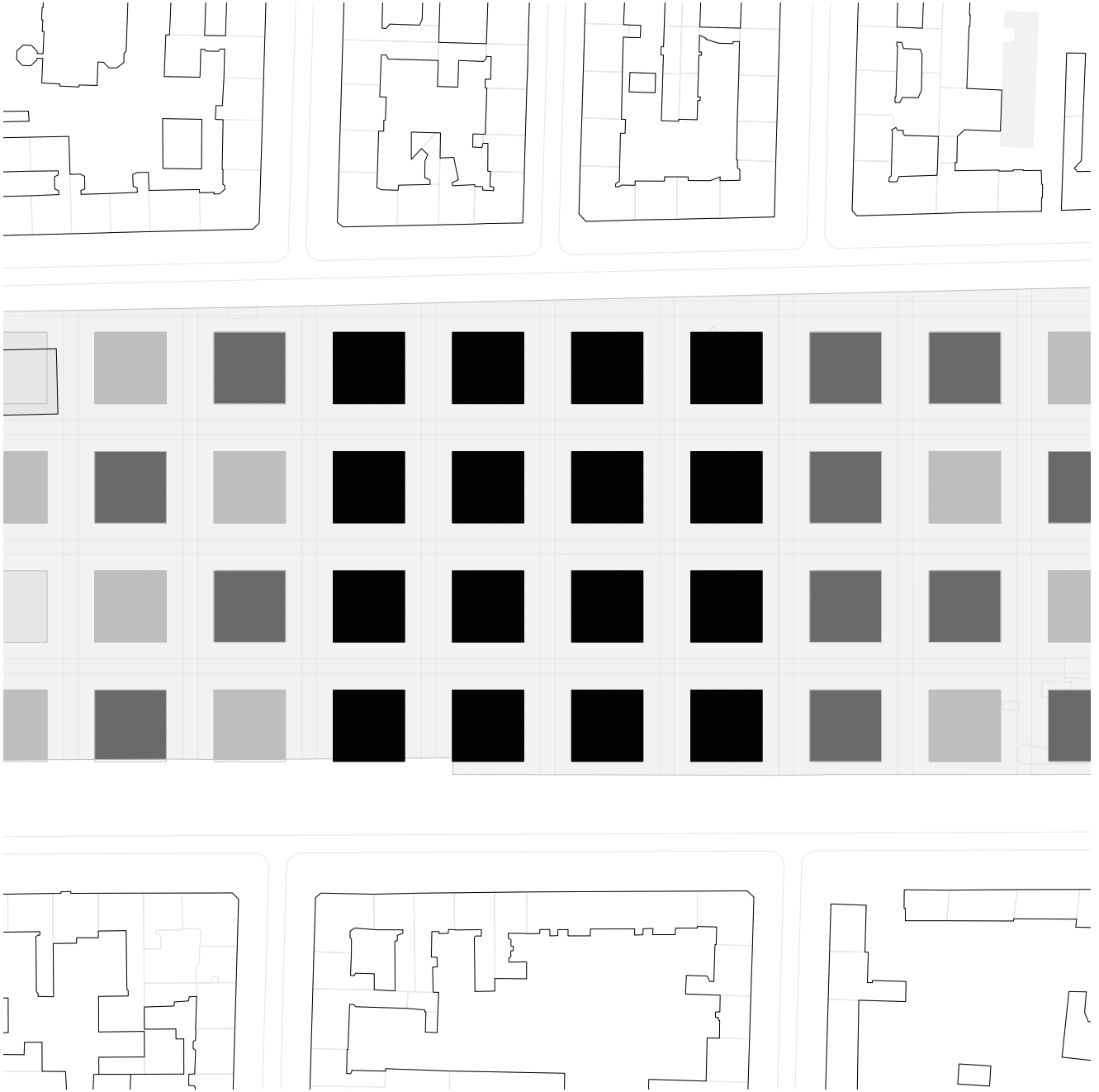
MEGA PATTERN STRUCTURE



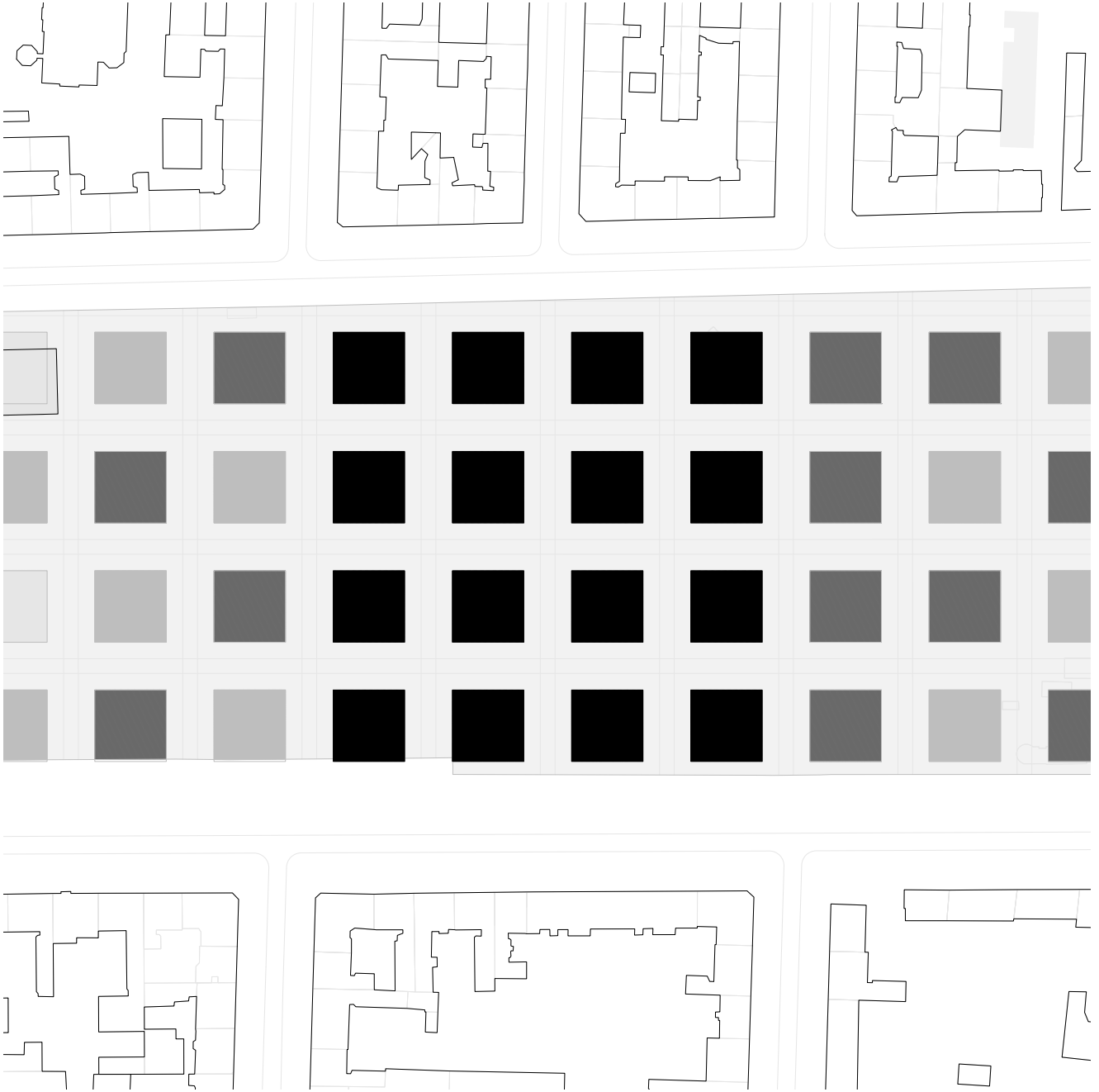
‘MASTERPLAN’



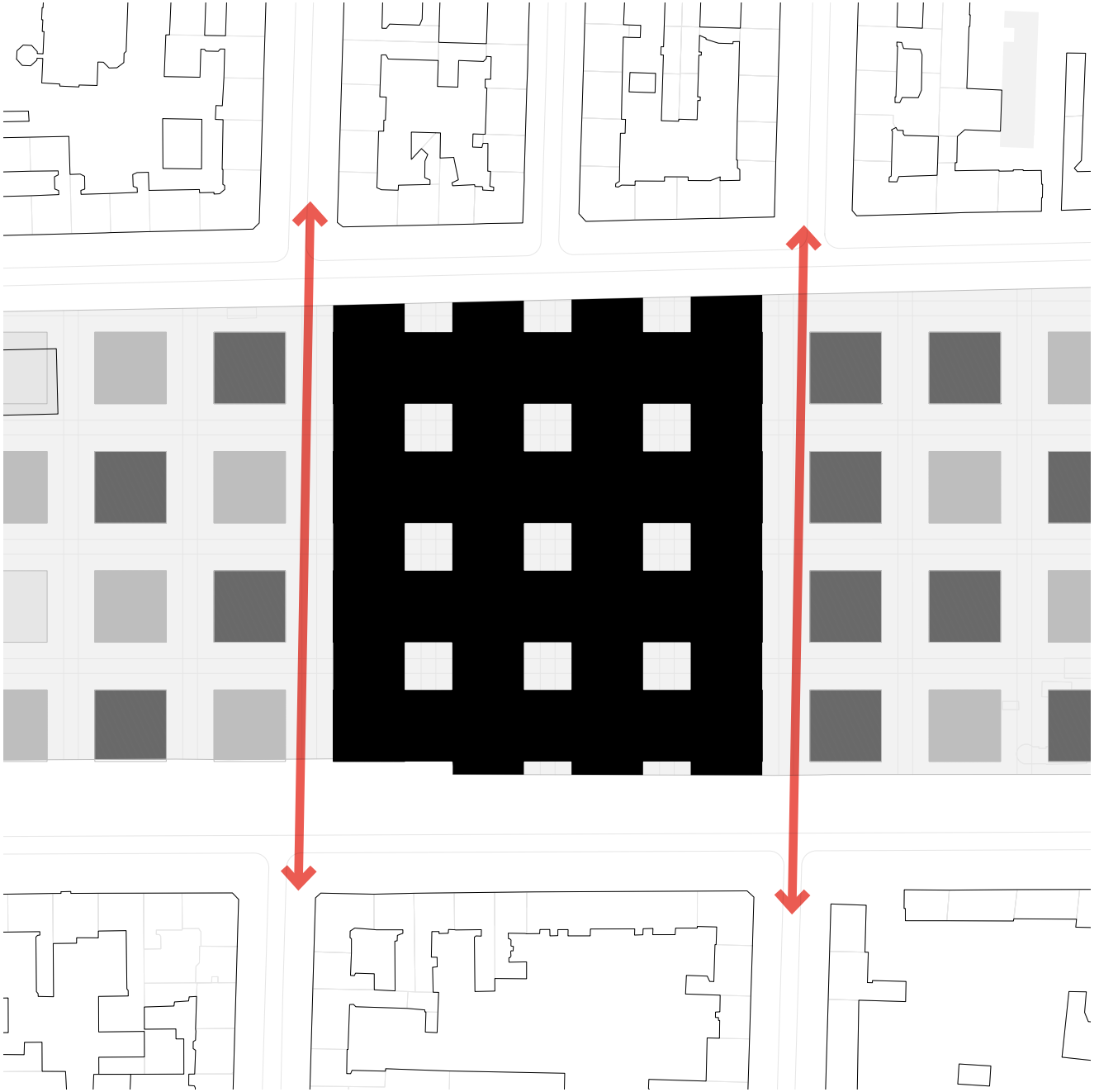
URBAN IMPLEMENTATION



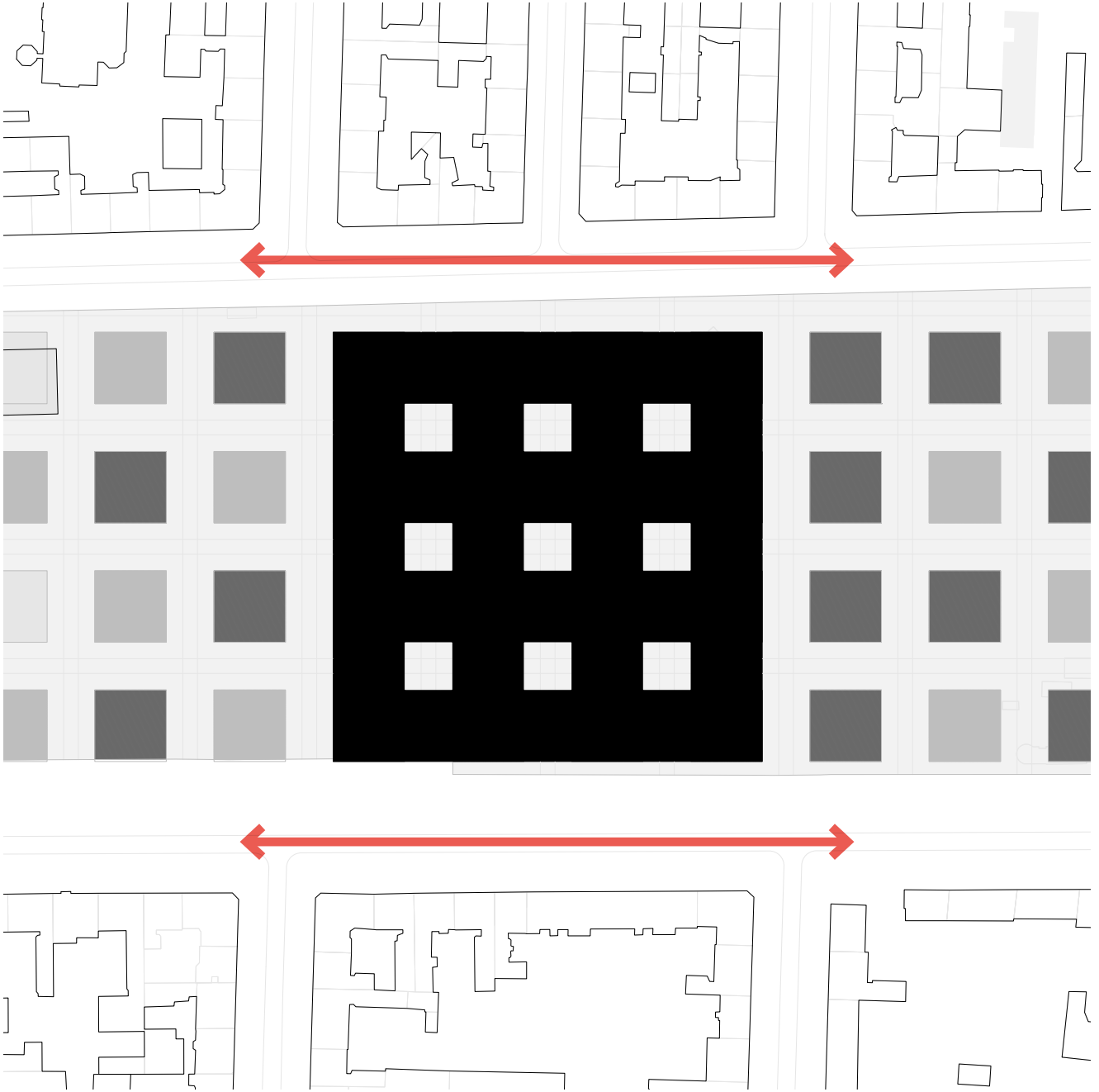
URBAN IMPLEMENTATION



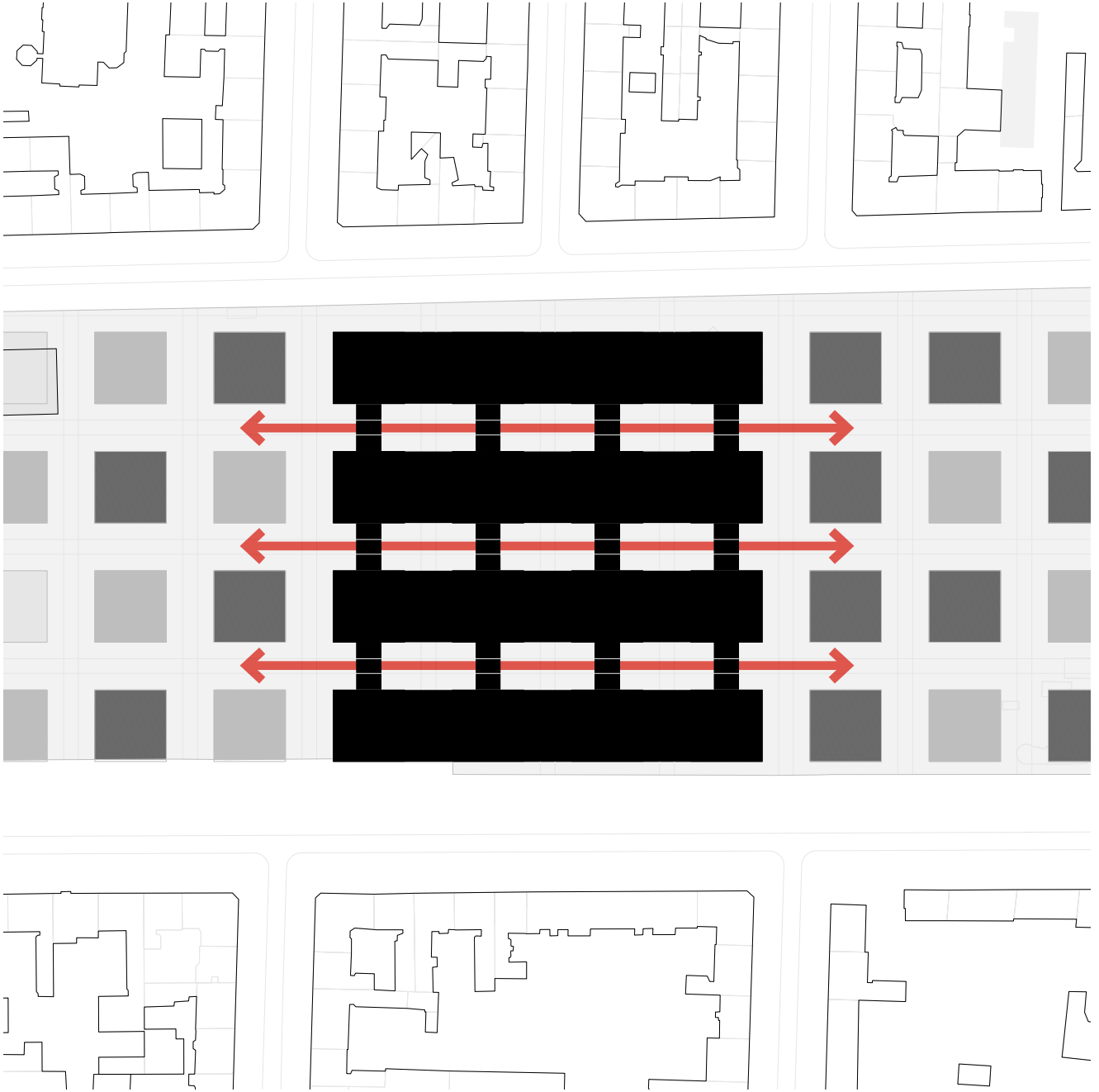
URBAN IMPLEMENTATION



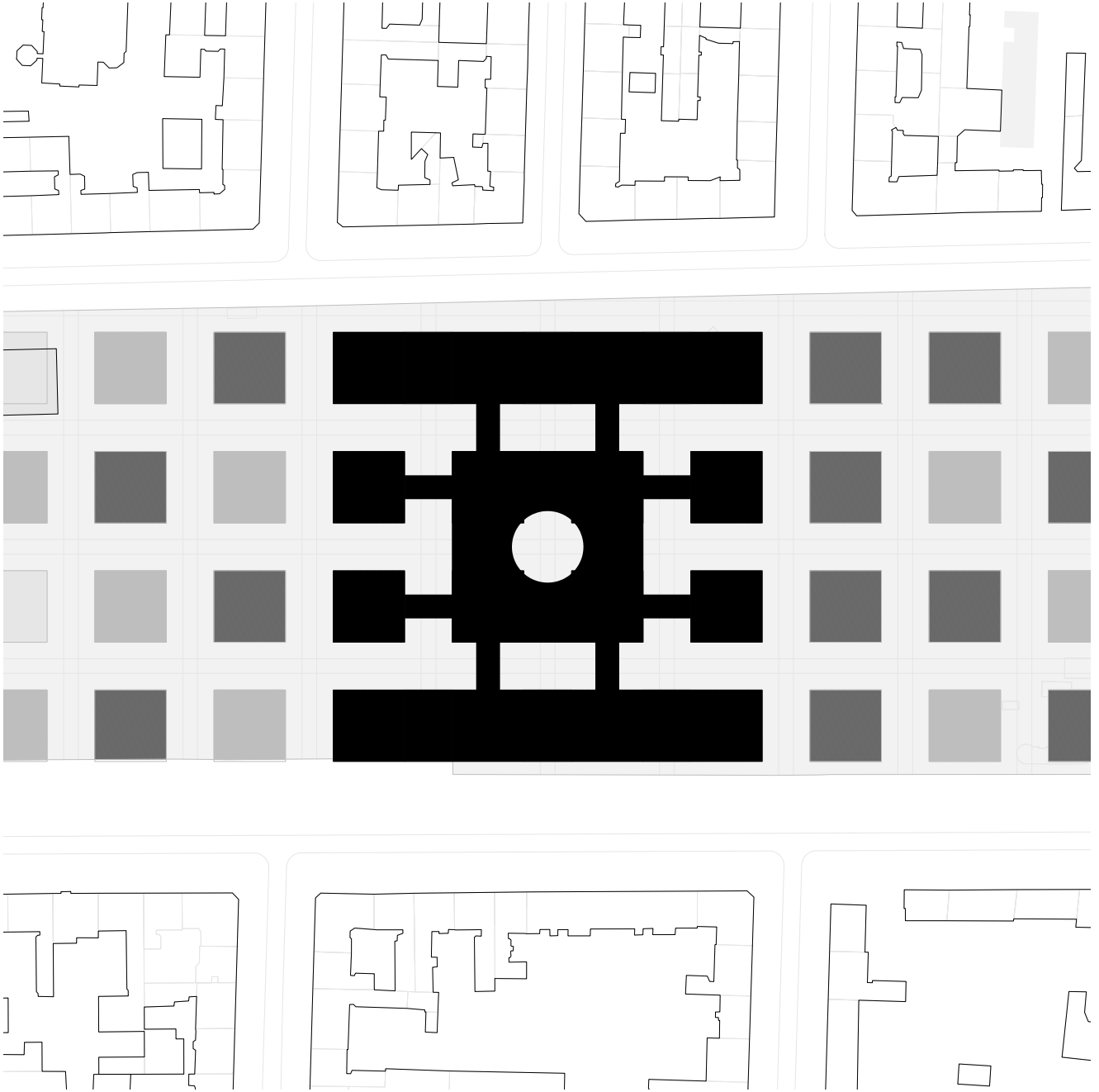
URBAN IMPLEMENTATION



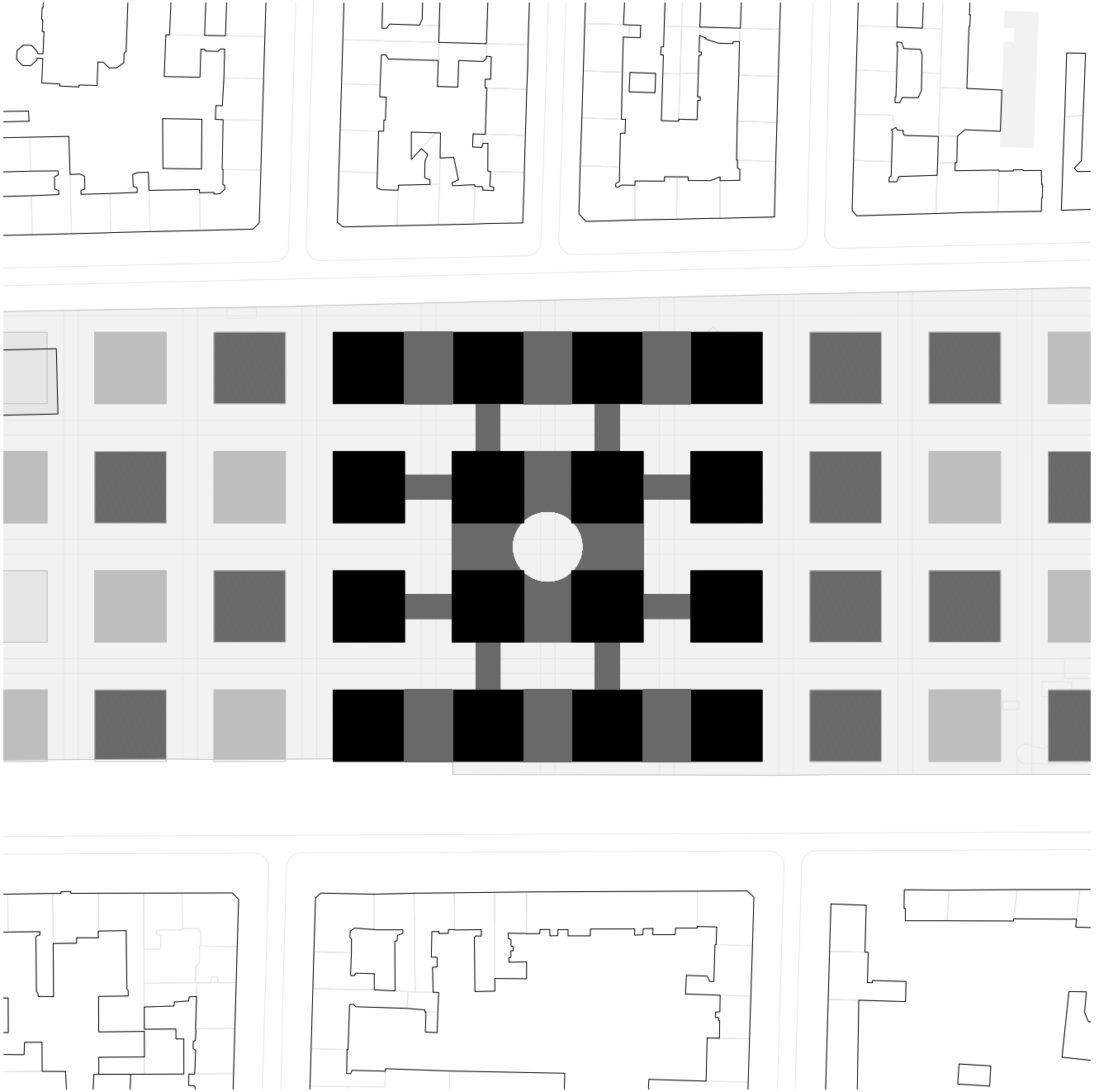
URBAN IMPLEMENTATION



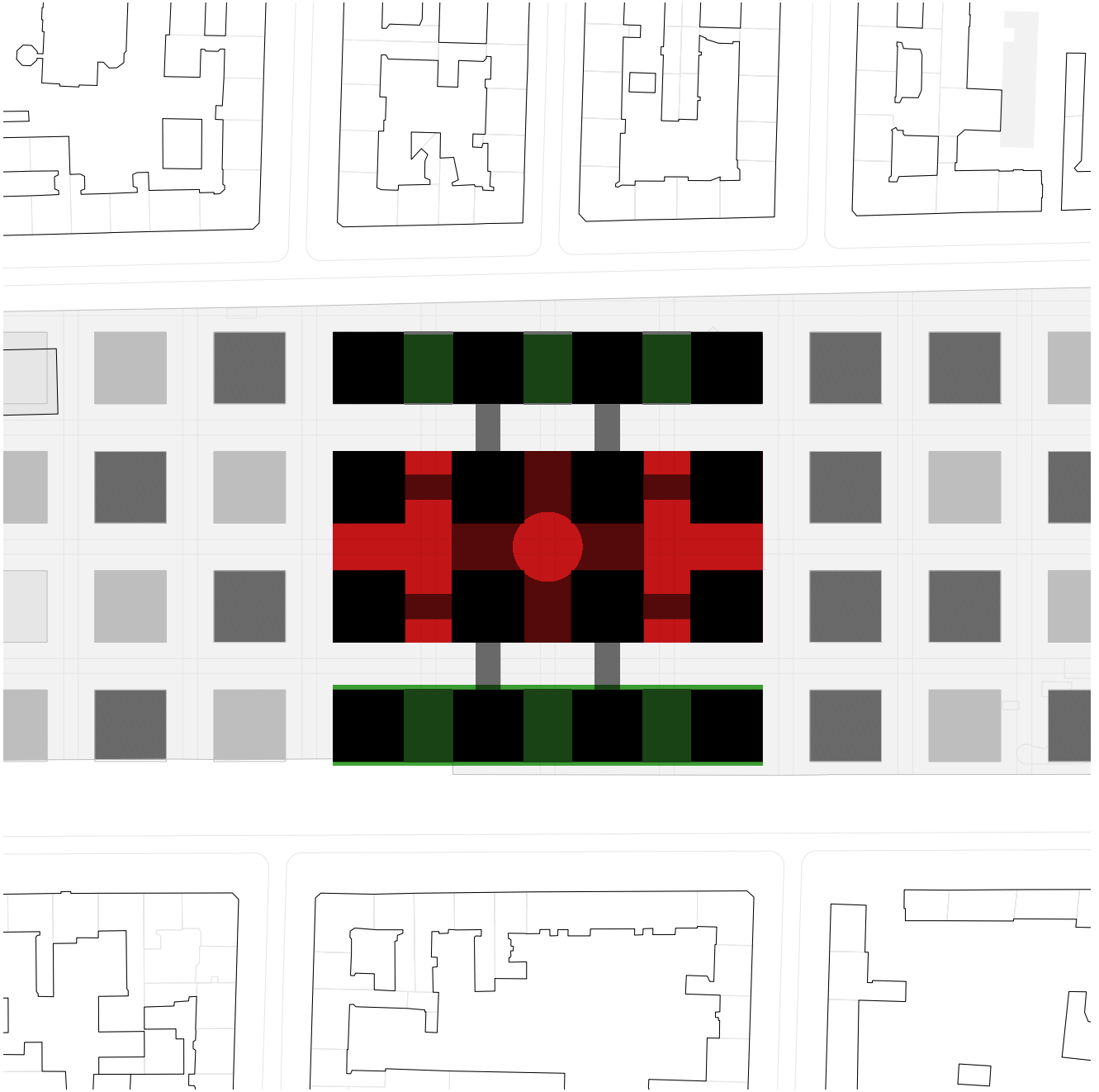
URBAN IMPLEMENTATION



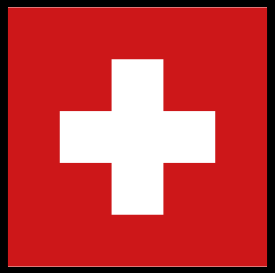
URBAN IMPLEMENTATION



URBAN IMPLEMENTATION

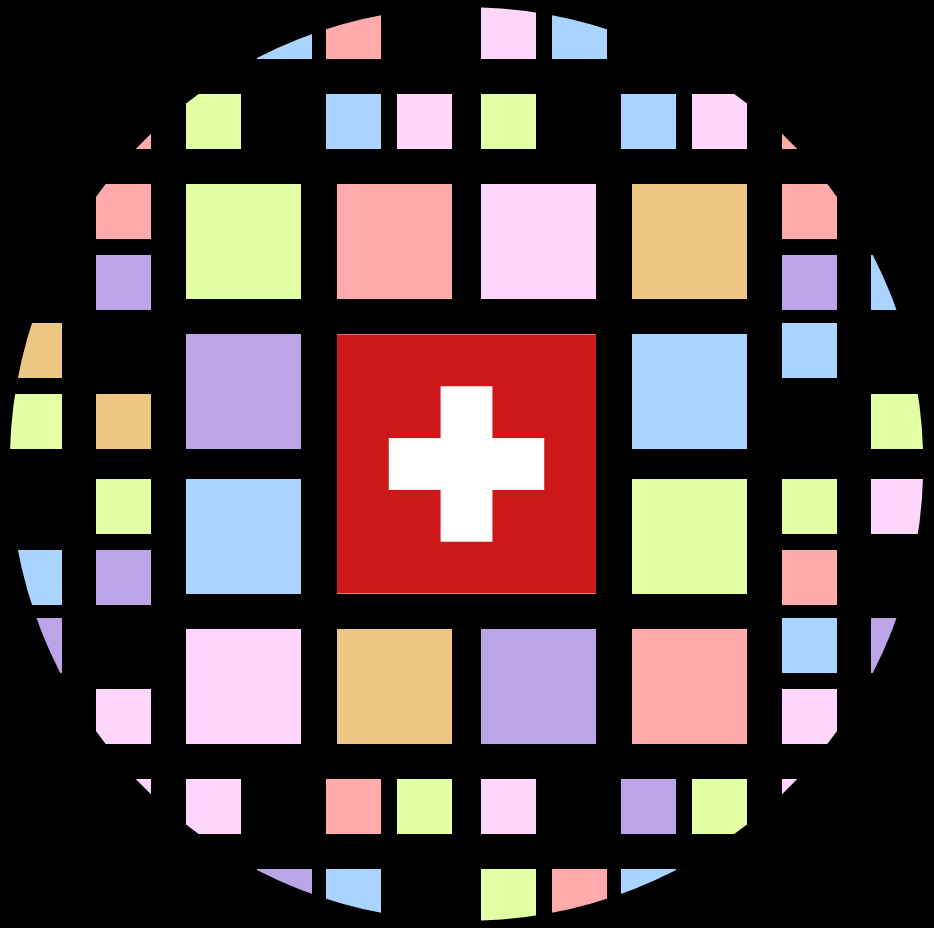


REDEFINING THE IMAGE



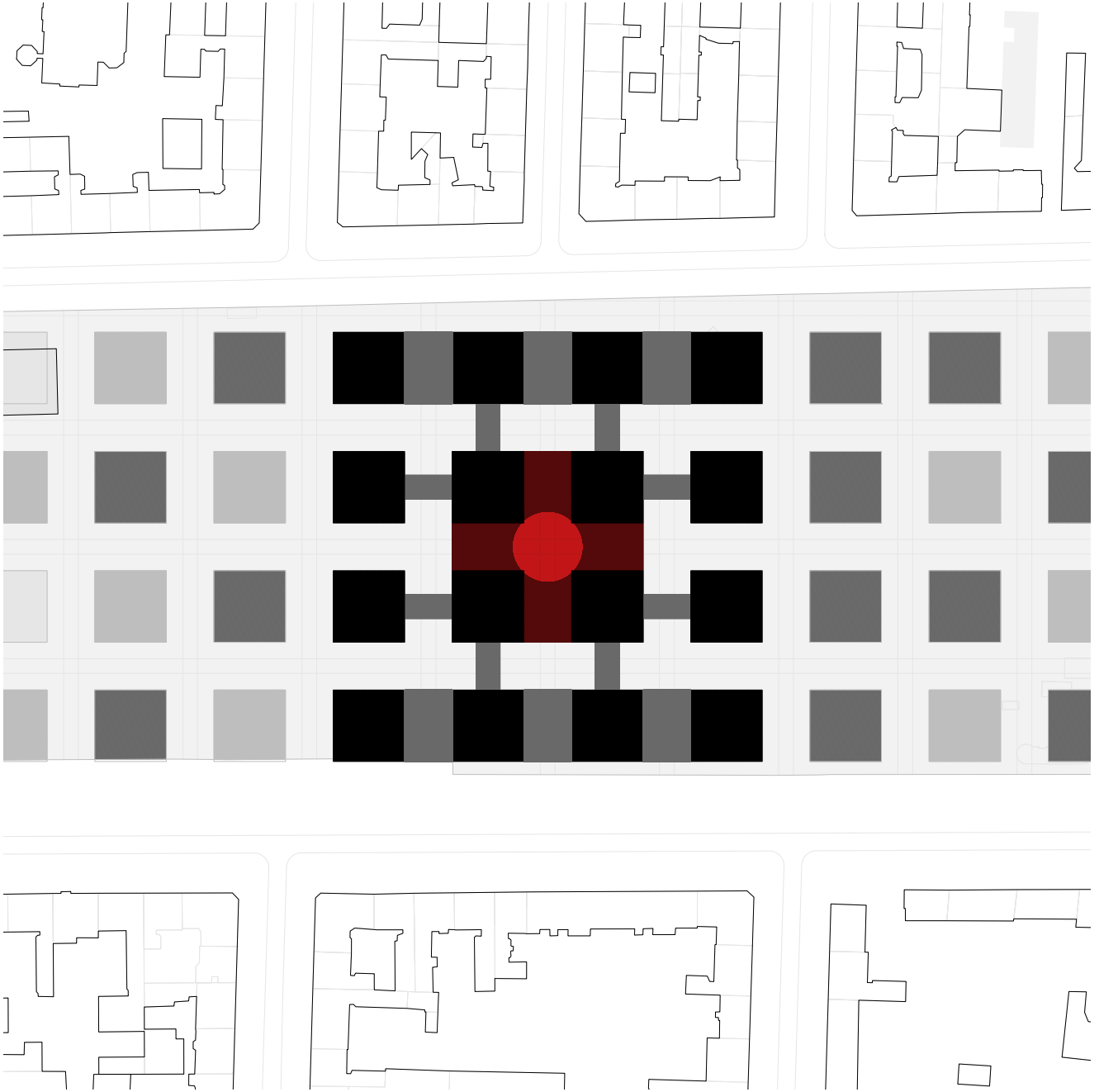
FROM SINGULAR IN-USE

REDEFINING THE IMAGE

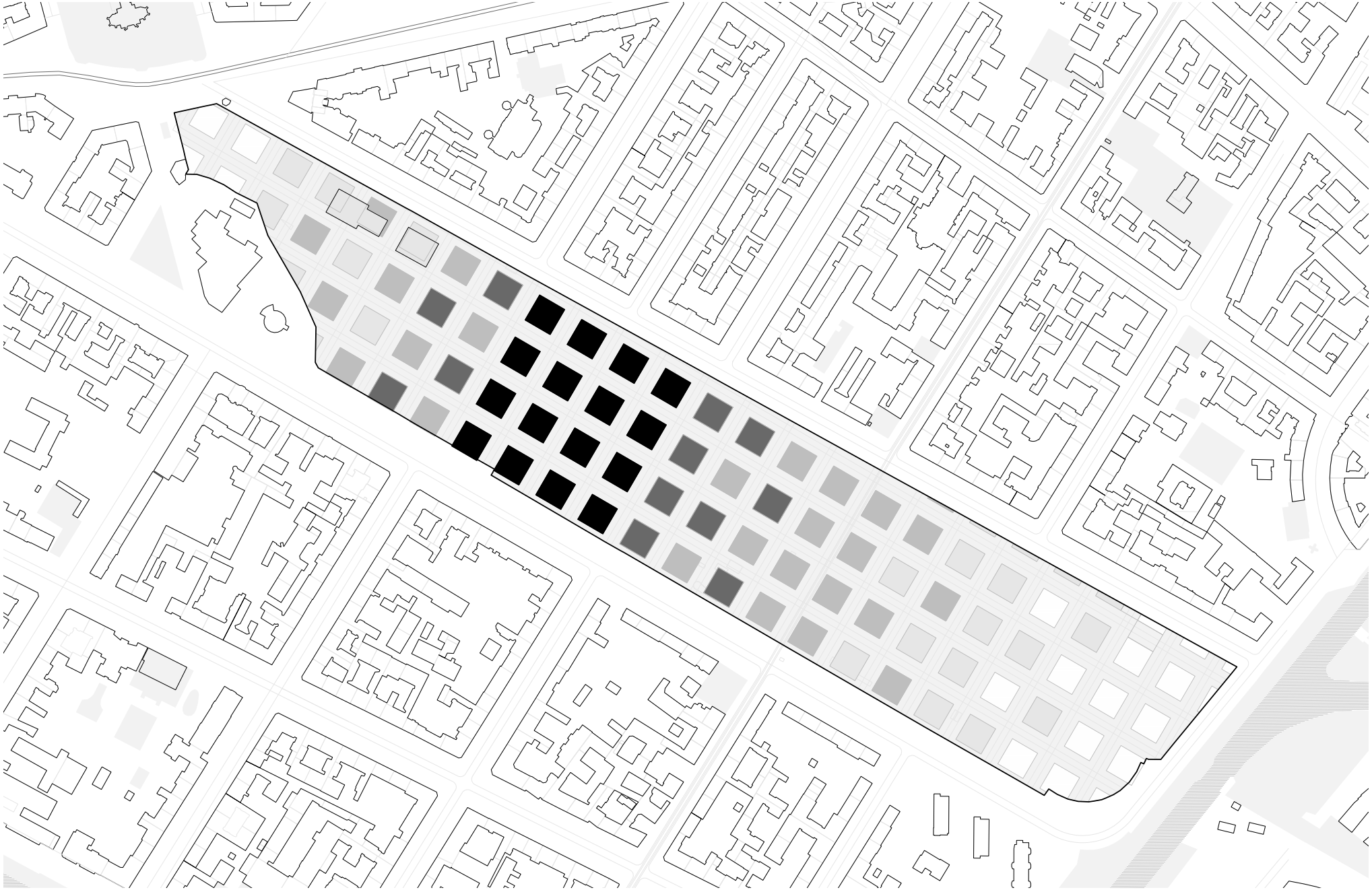


TO MIXED-USE FOR SOCIETY

URBAN IMPLEMENTATION



‘MASTERPLAN’



R6_AERIAL

R6_AERIAL

R6_AERIAL

R6_AERIAL

R3_PARK

R2_INTERSECTION

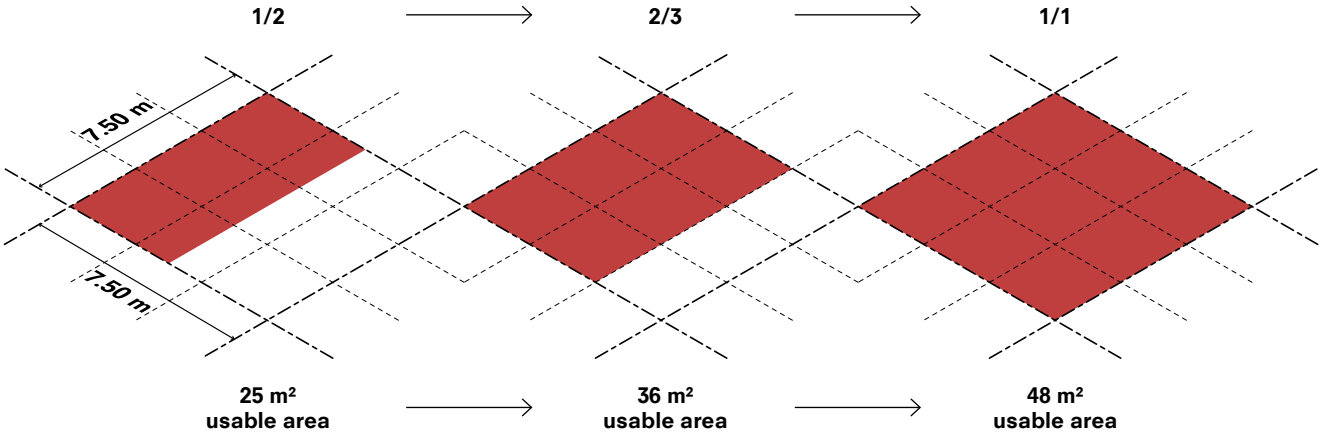
R1_EXTENSION OF THE URBAN FABRIC

XL - **L** - M - S - XS

“STRUCTURE”

SITE PLAN

7.8 - 8.4 M

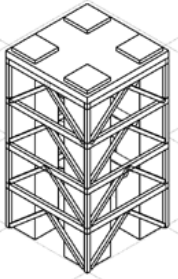


MODULAR SIZING ORDER

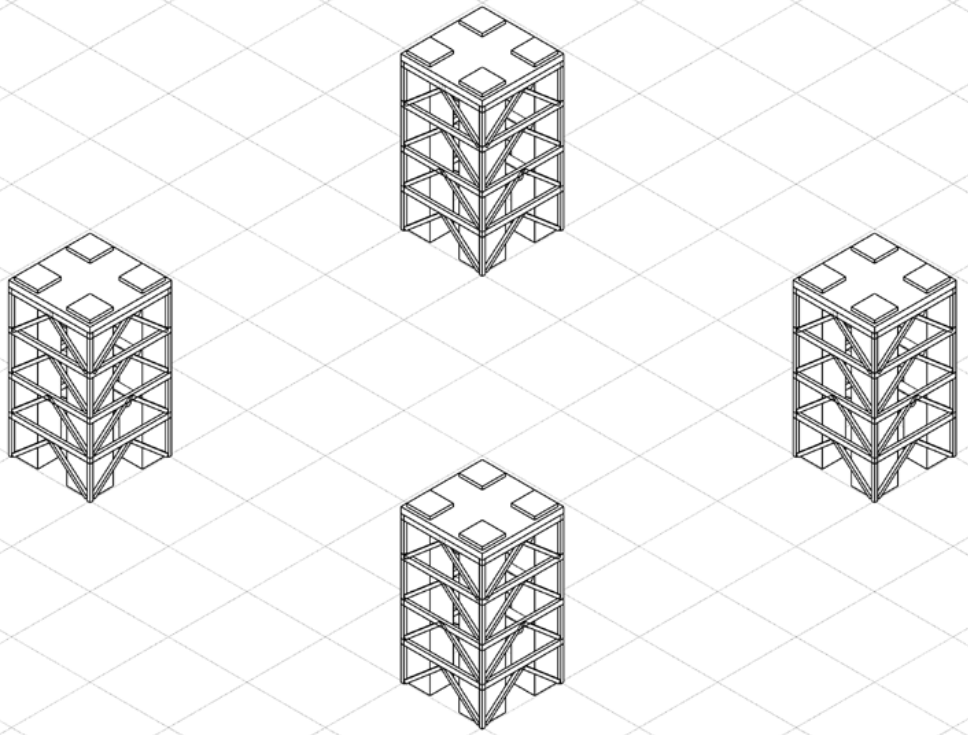
NICKL-WELLER, C., & NICKI, H. (2021). ARCHITECTURE FOR HEALTH.

MODULAR 8.1 X 8.1 GRID

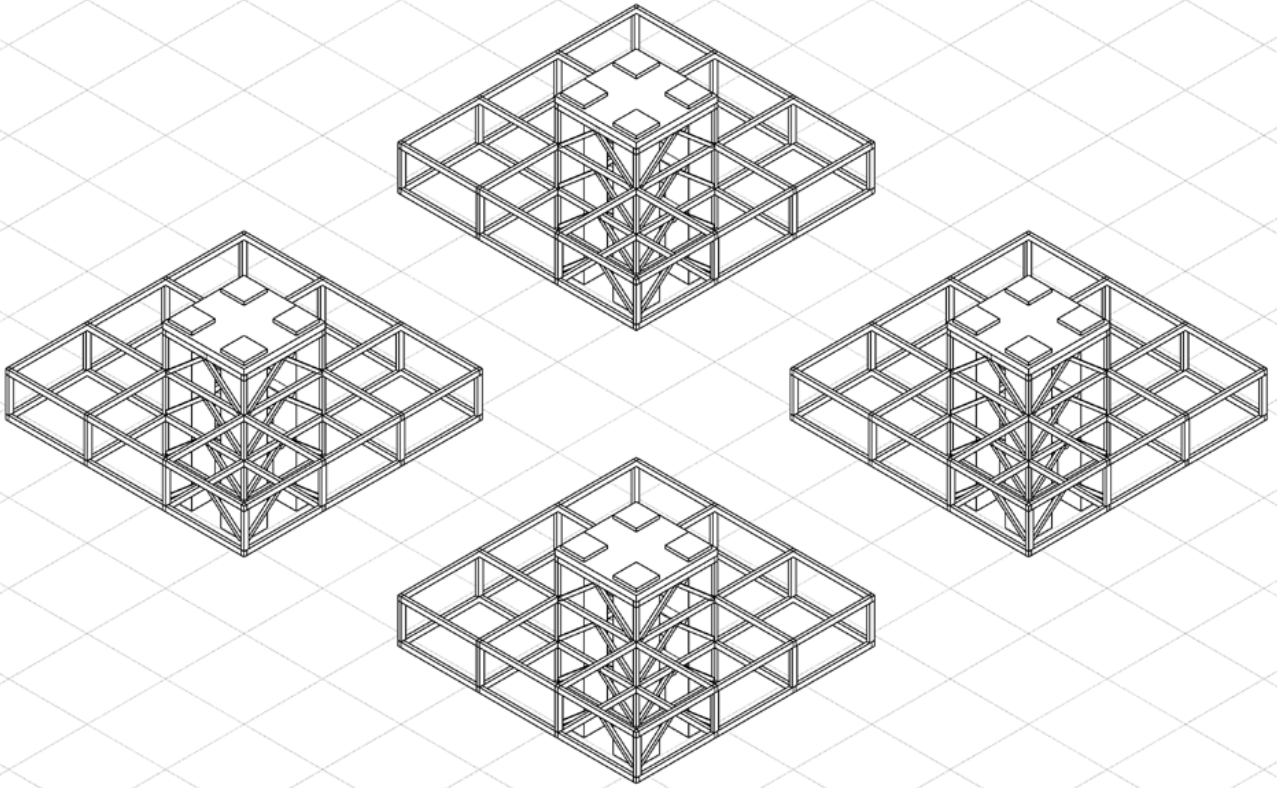
INFRASTRUCTURAL CORE



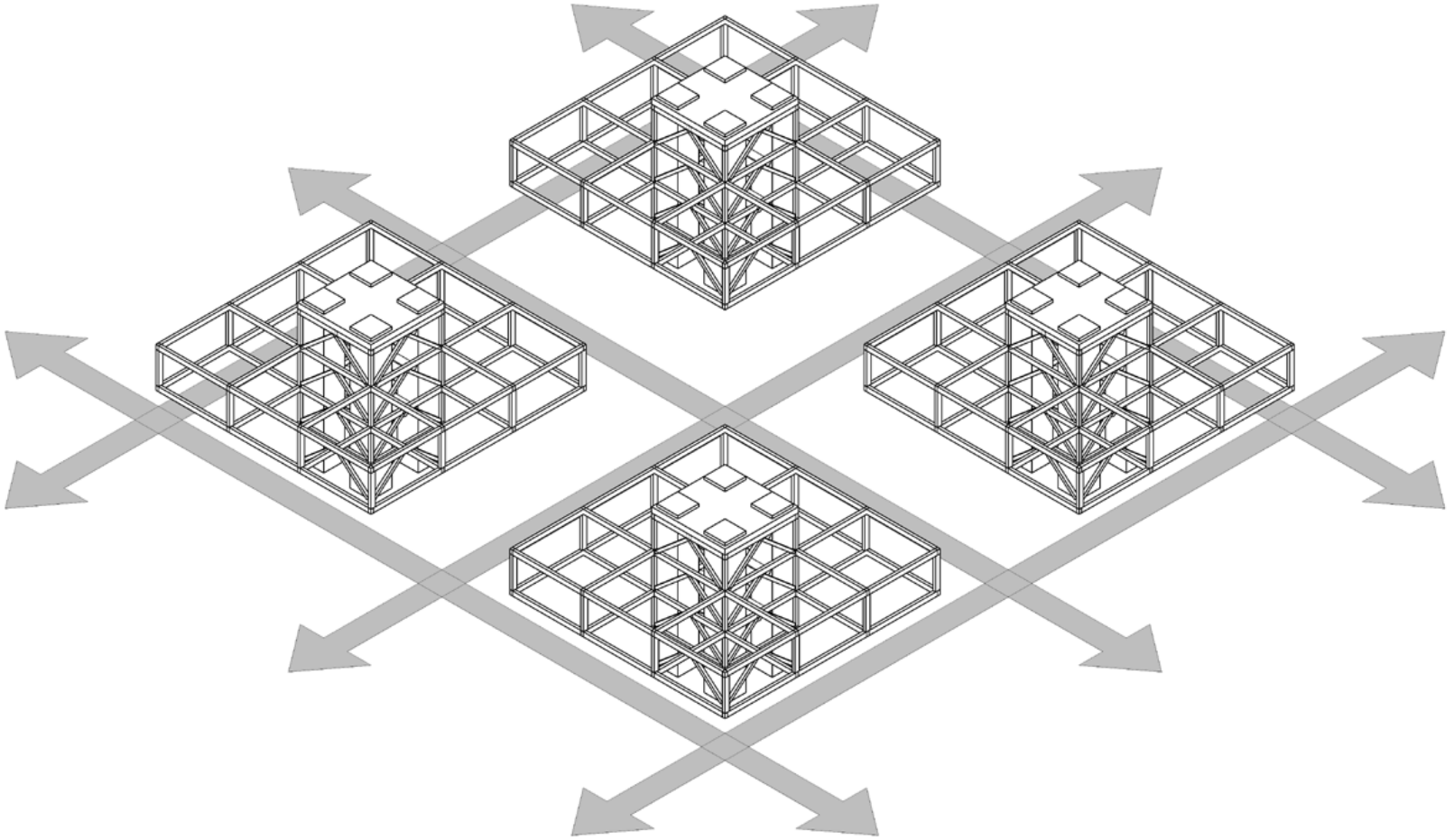
INFRASTRUCTURAL NETWORK



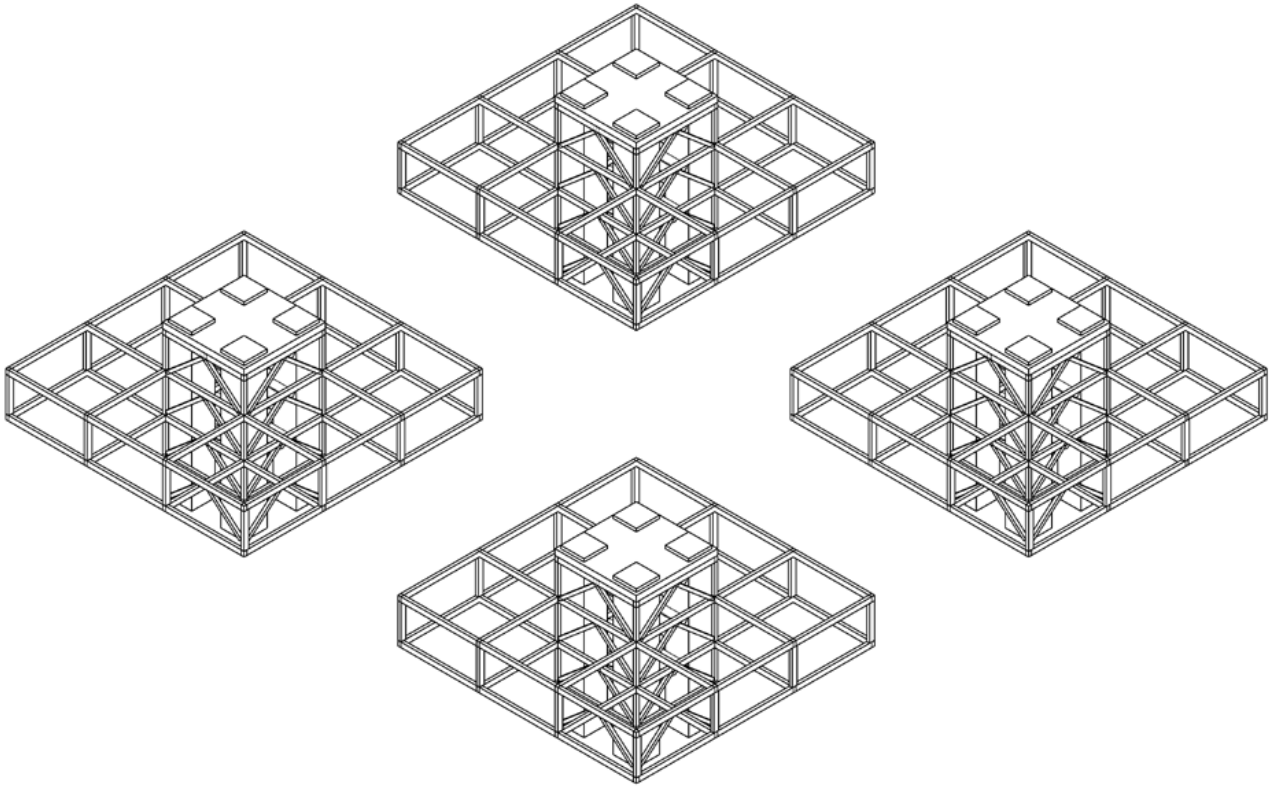
VIERENDEEL TRUSS



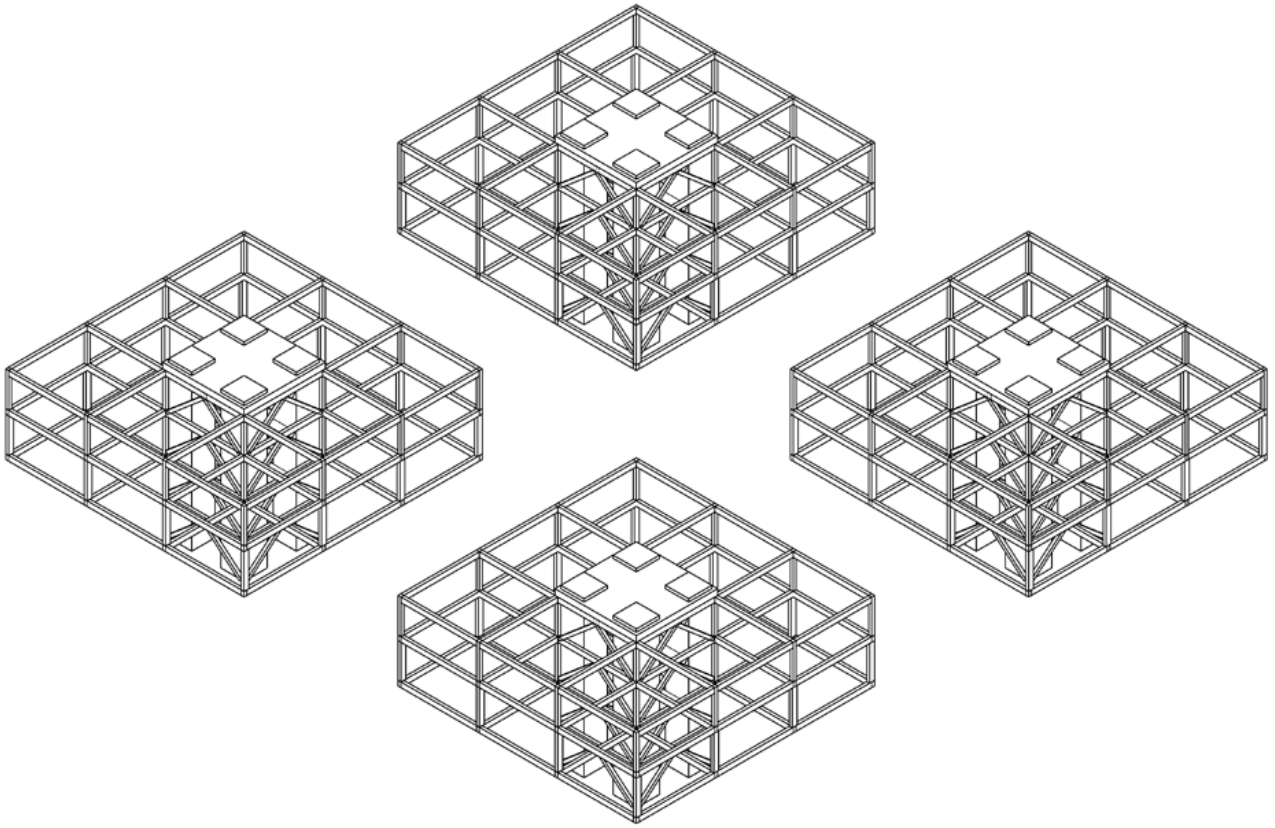
OPEN PLINTH



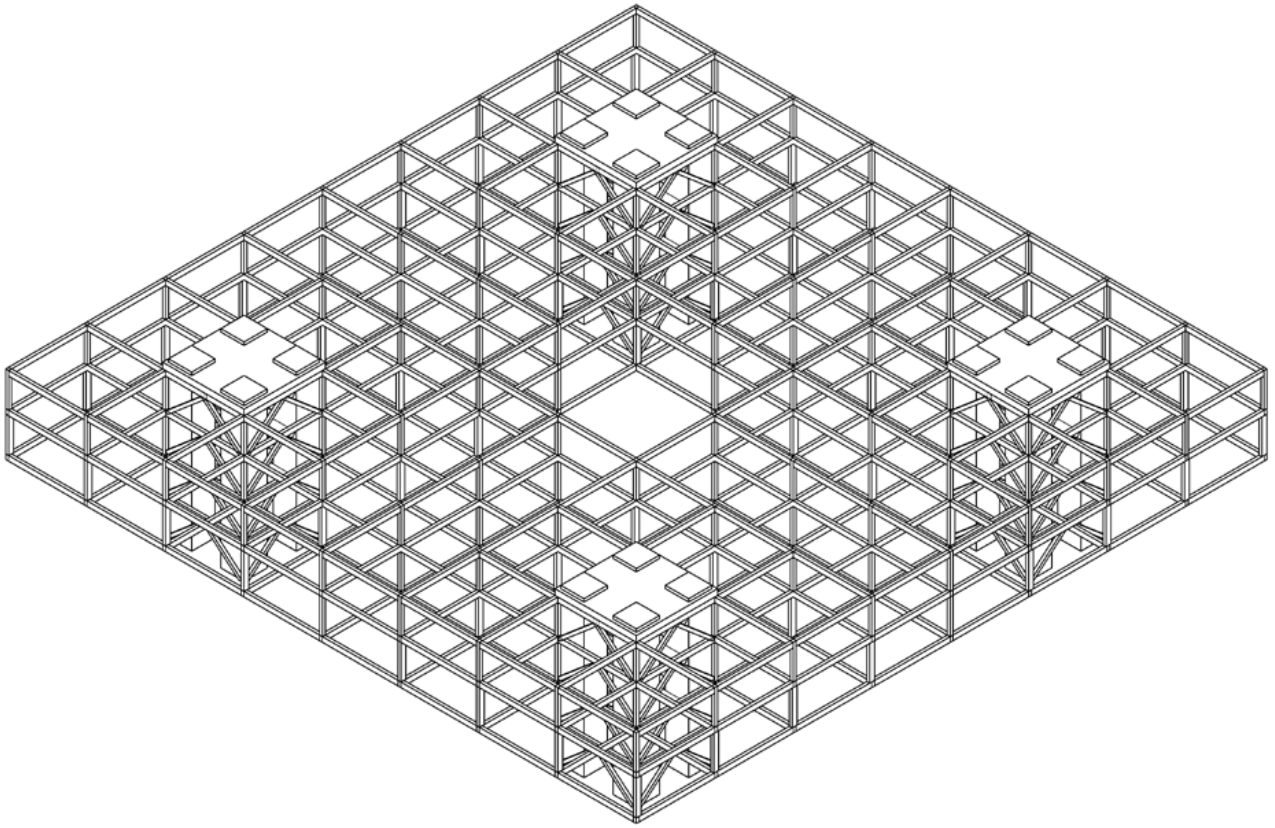
FLOATING SLABS



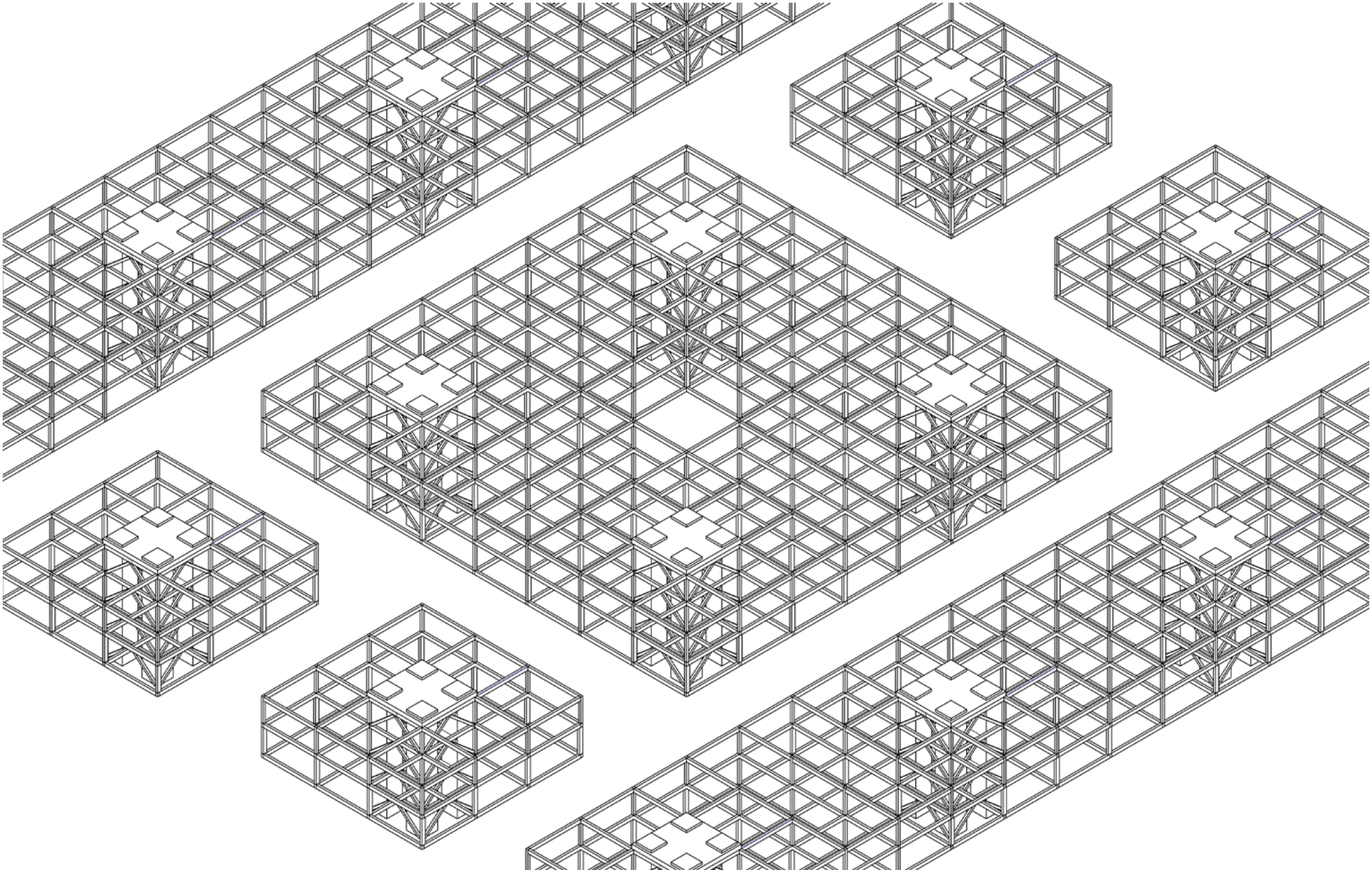
TOPPING UP



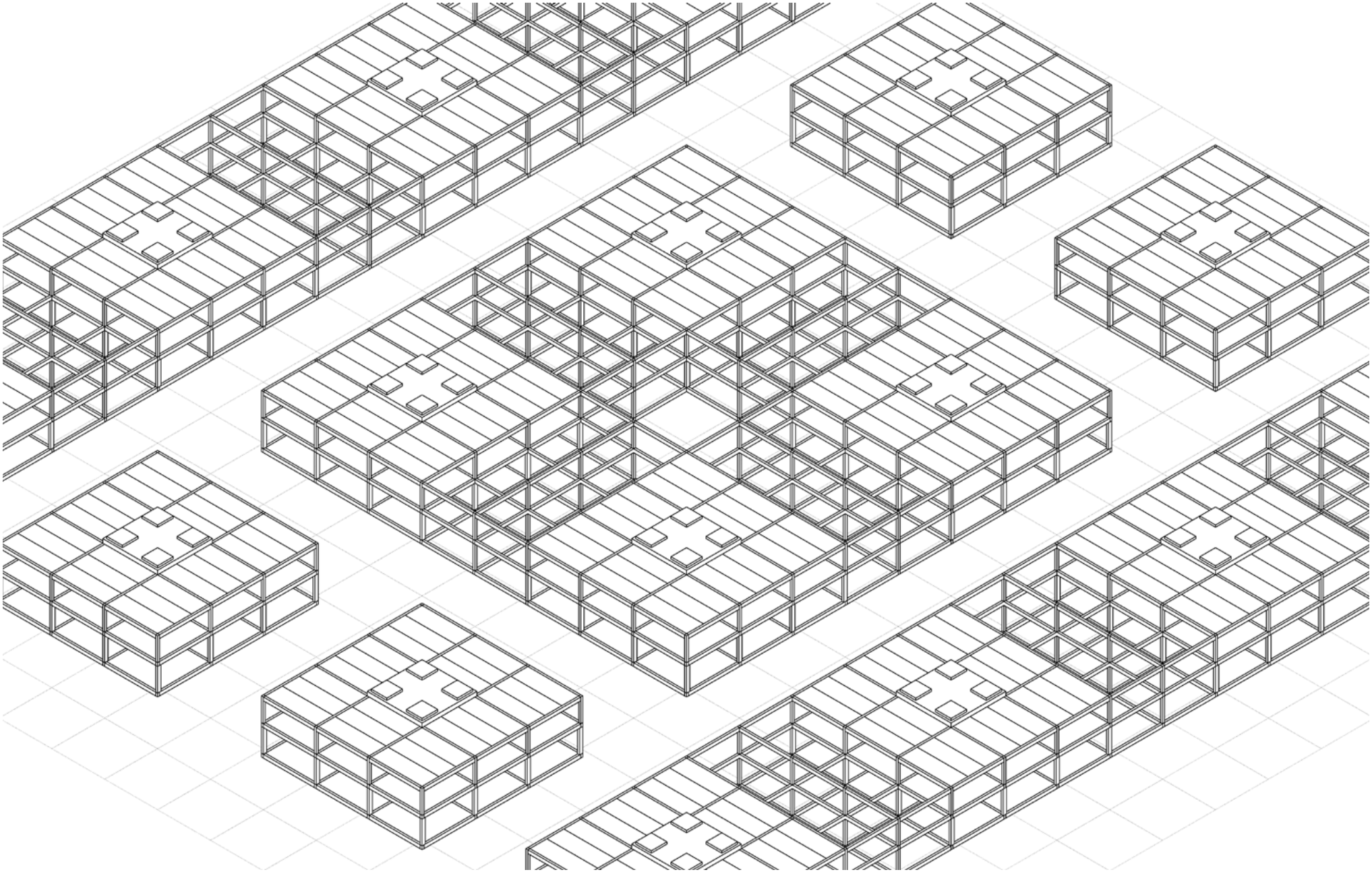
CONNECT



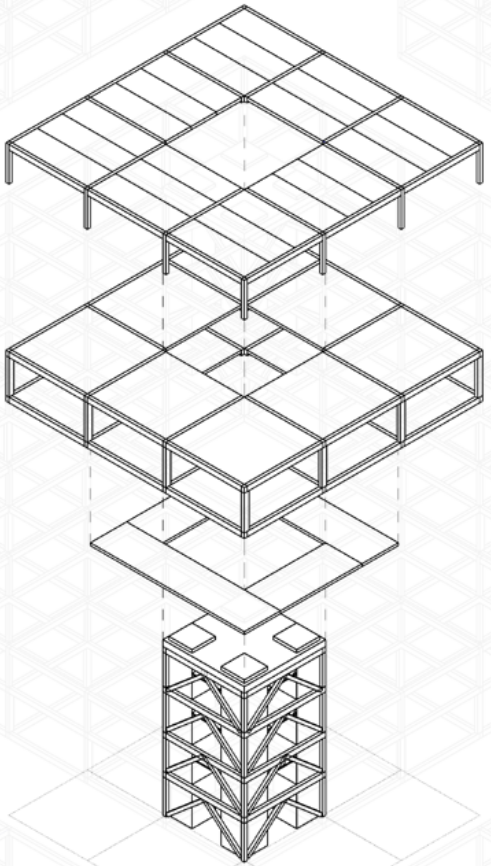
MULTIPLY



MEGA STRUCTURE



META STRUCTURE



L03 - steel skeleton - HEA 250

L02 - vierendeel truss - HEB 500

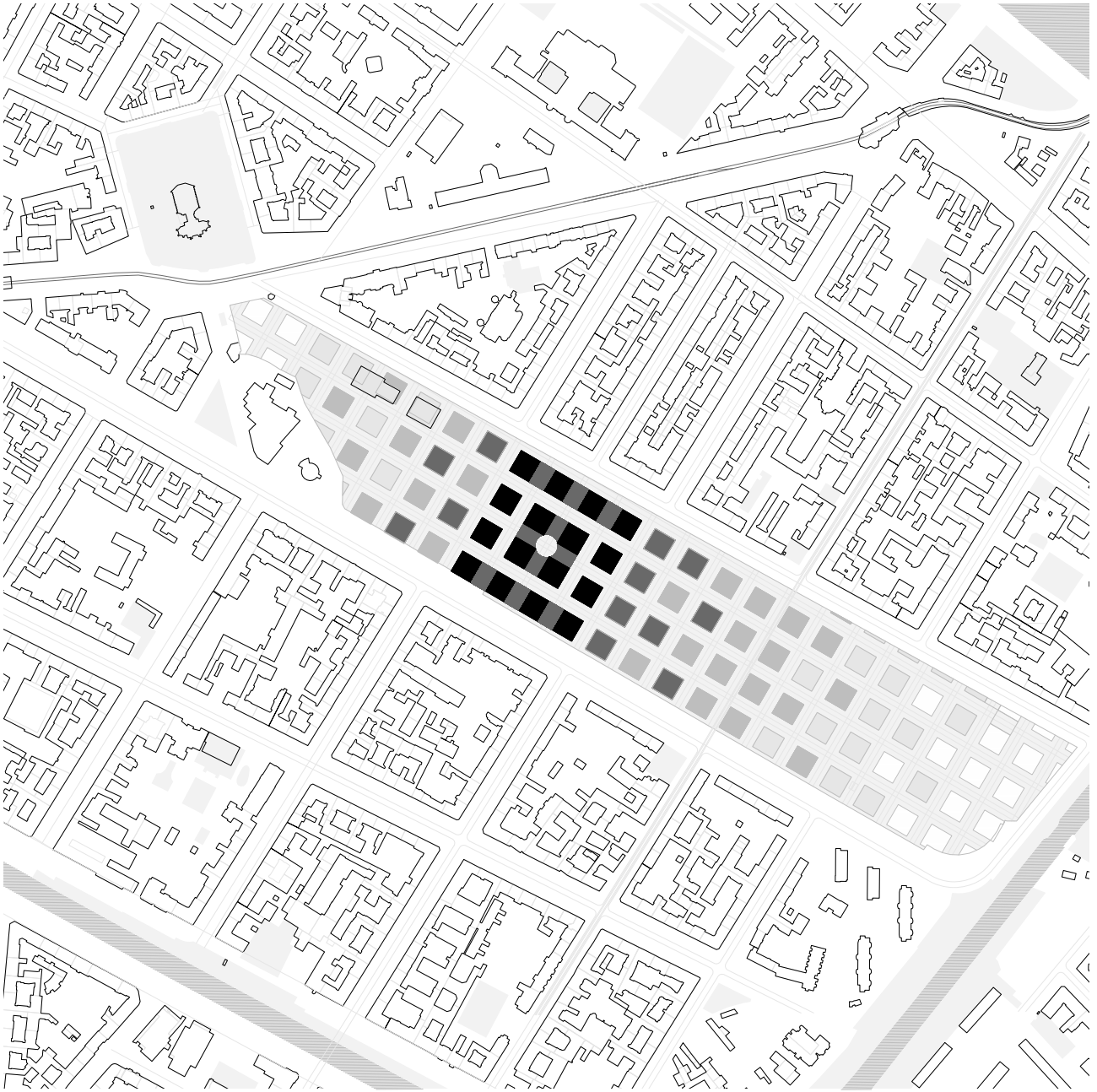
L01 - suspended floors

L00 - steel circulation core
3 x elevator + shafts

+ Kerto Ripa Hollow Core Floor slabs

vierendeel truss rules:
max 1. bay cantilever
max 4. bay span between cores
= extend & multiply

SITE PLAN



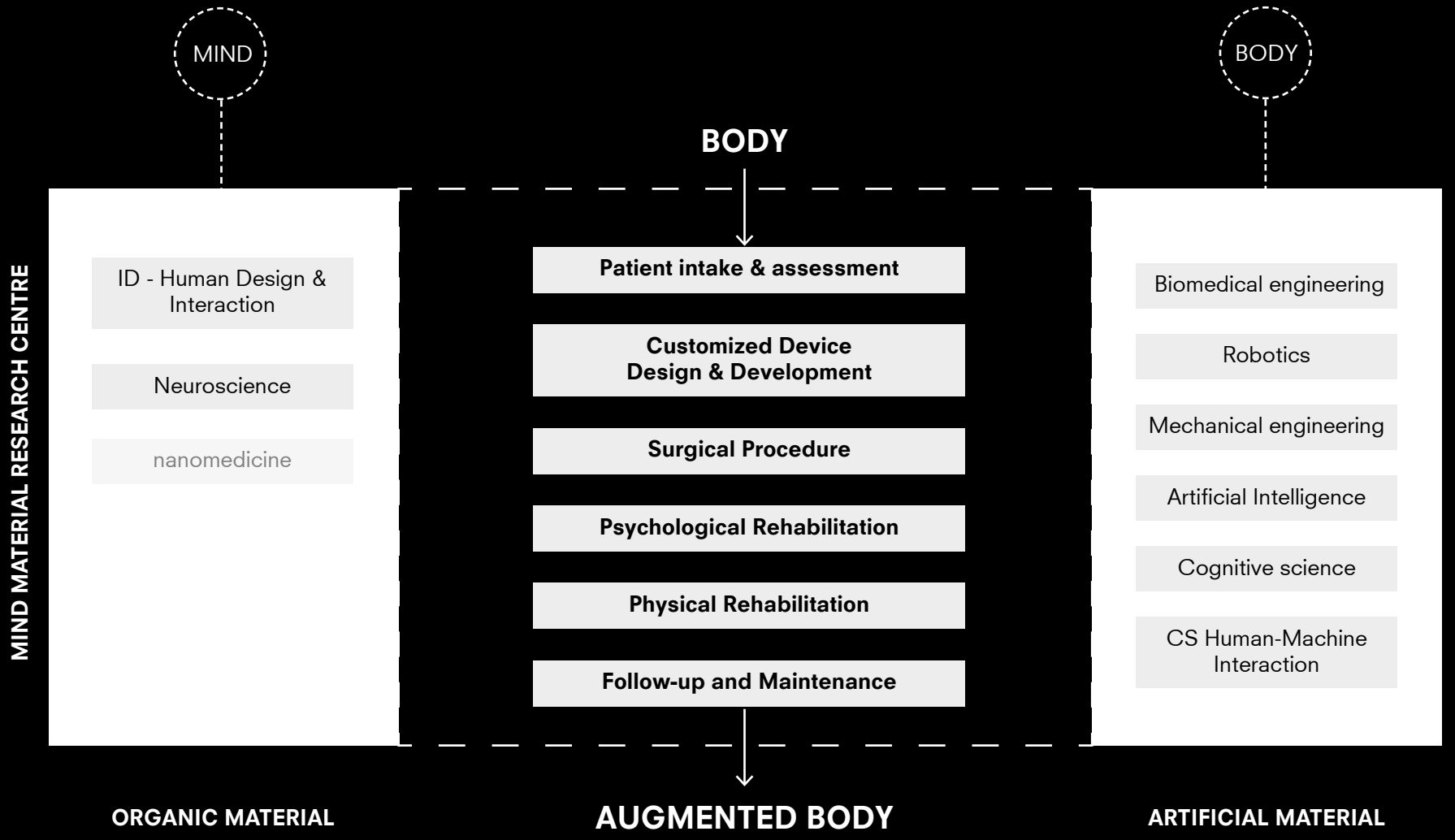
R6_AERIAL

XL - L - **M** - S - XS

“PROGRAM - FLOWS”

HOW IS IT ORGANISED?

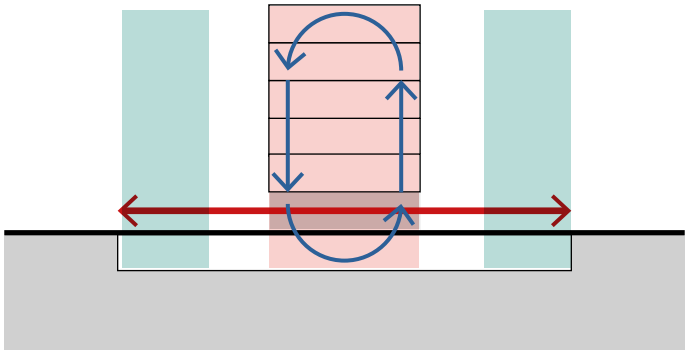
FUSION OF BODY AND MATERIAL



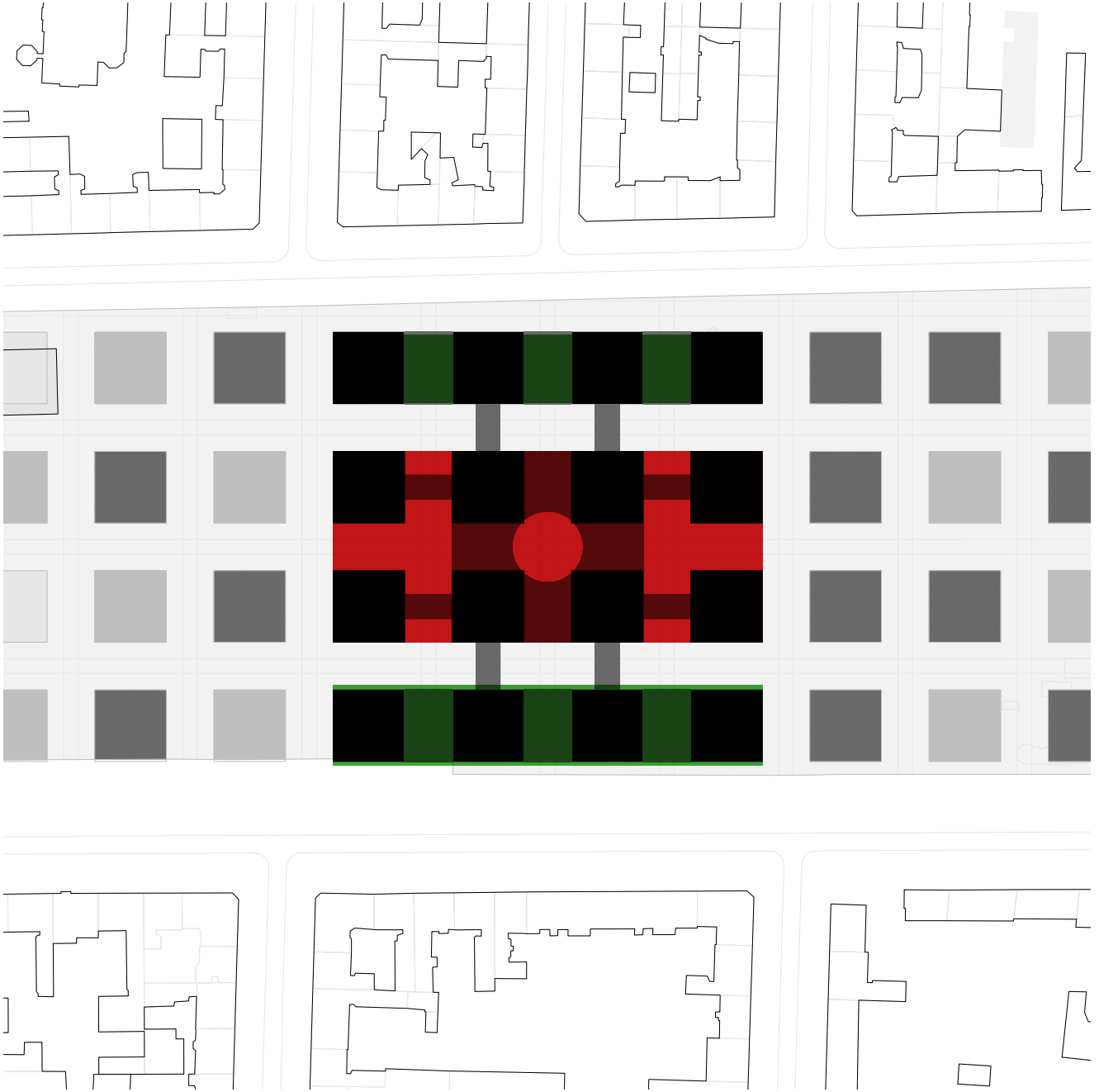
INTEGRATION OF RESEARCH AND DEVELOPMENT FACILITIES

DESIGN DEVELOPMENT

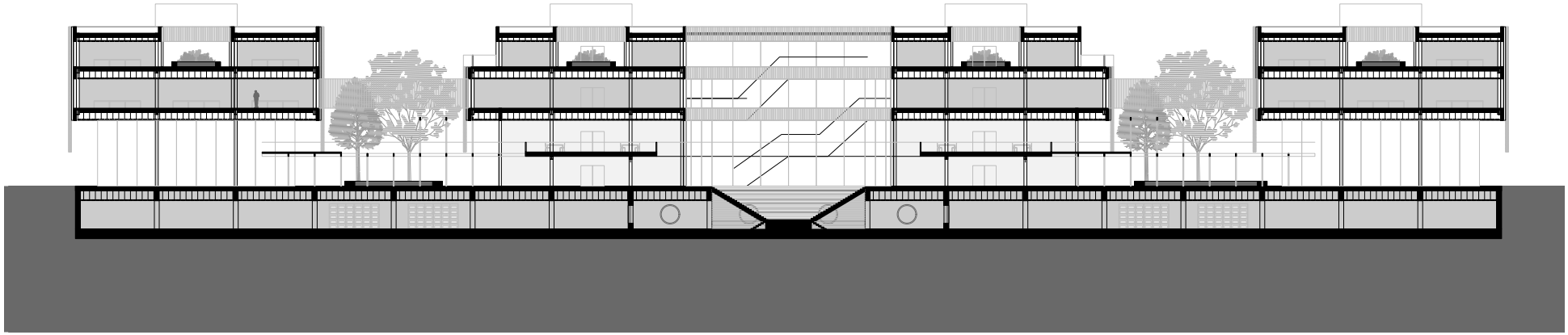
INTERLINK FLOWS
BETWEEN PUBLIC AND PRIVATE



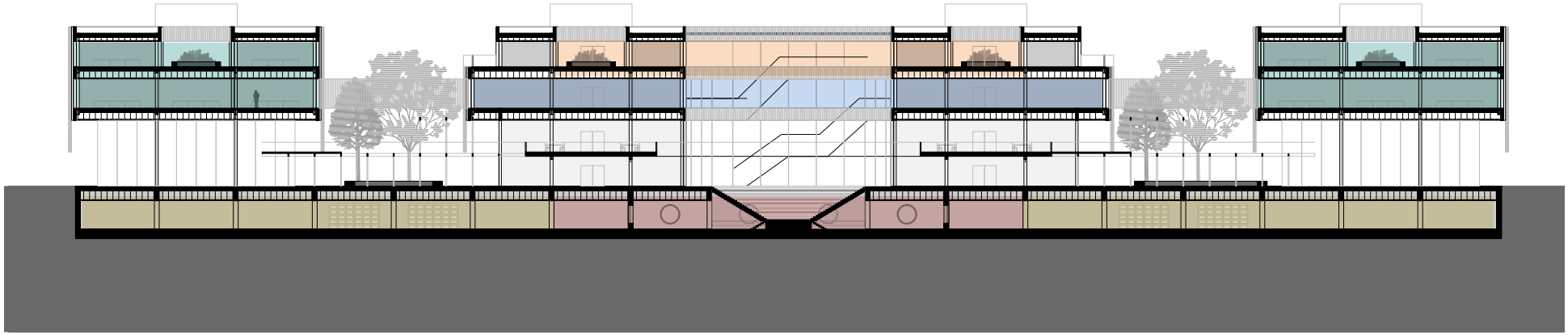
URBAN IMPLEMENTATION



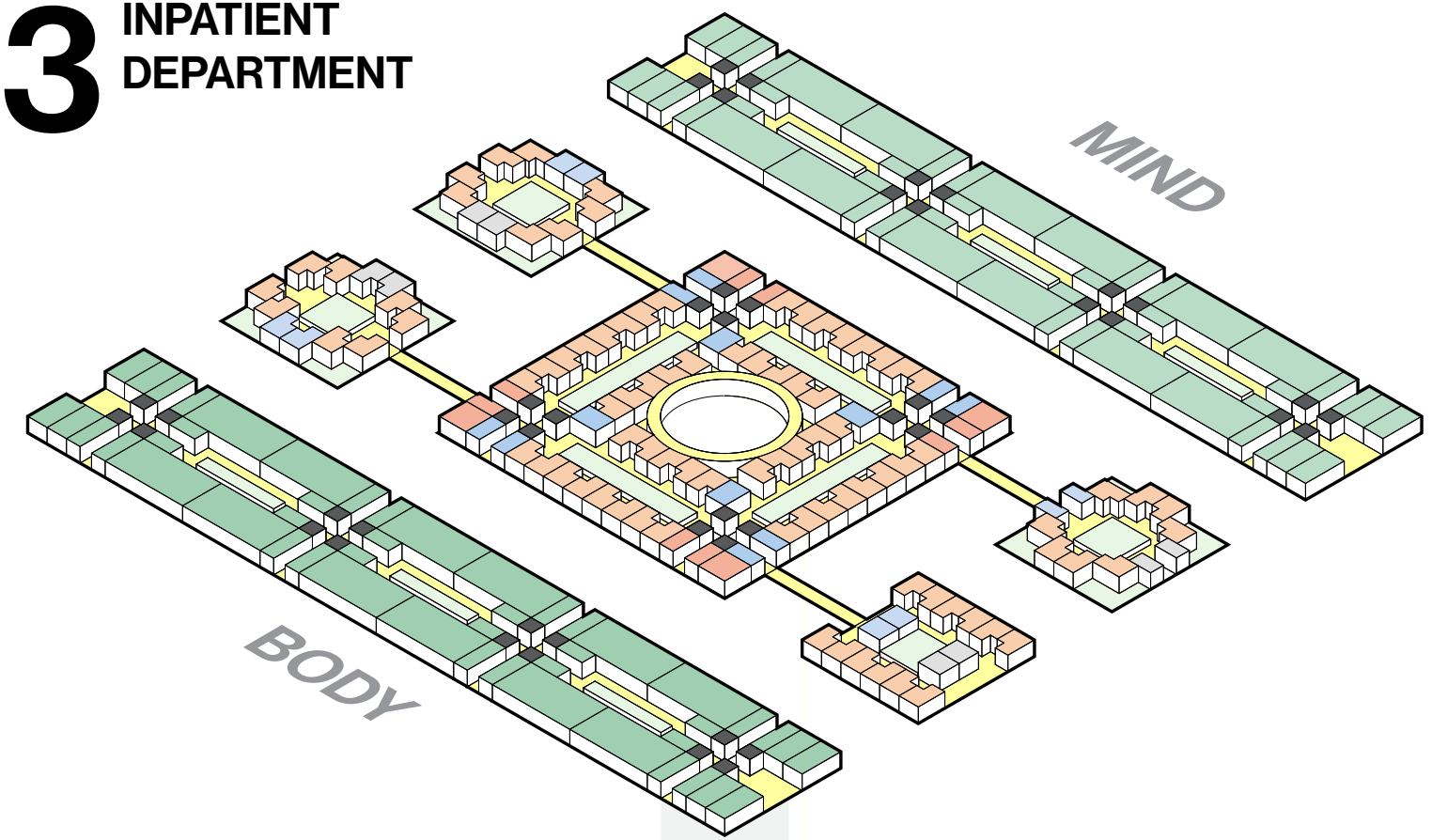
SECTION - MID



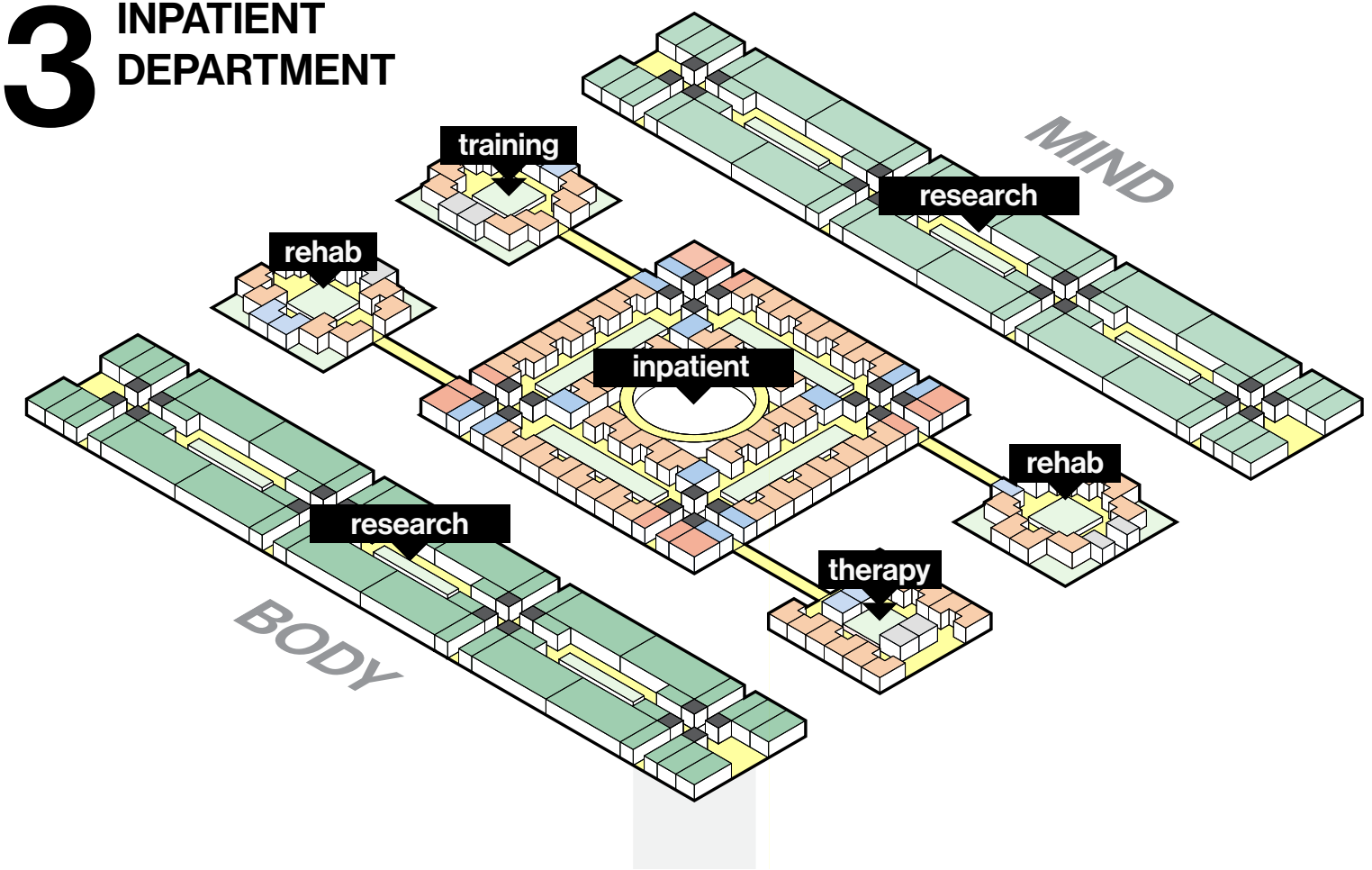
SECTION - MID



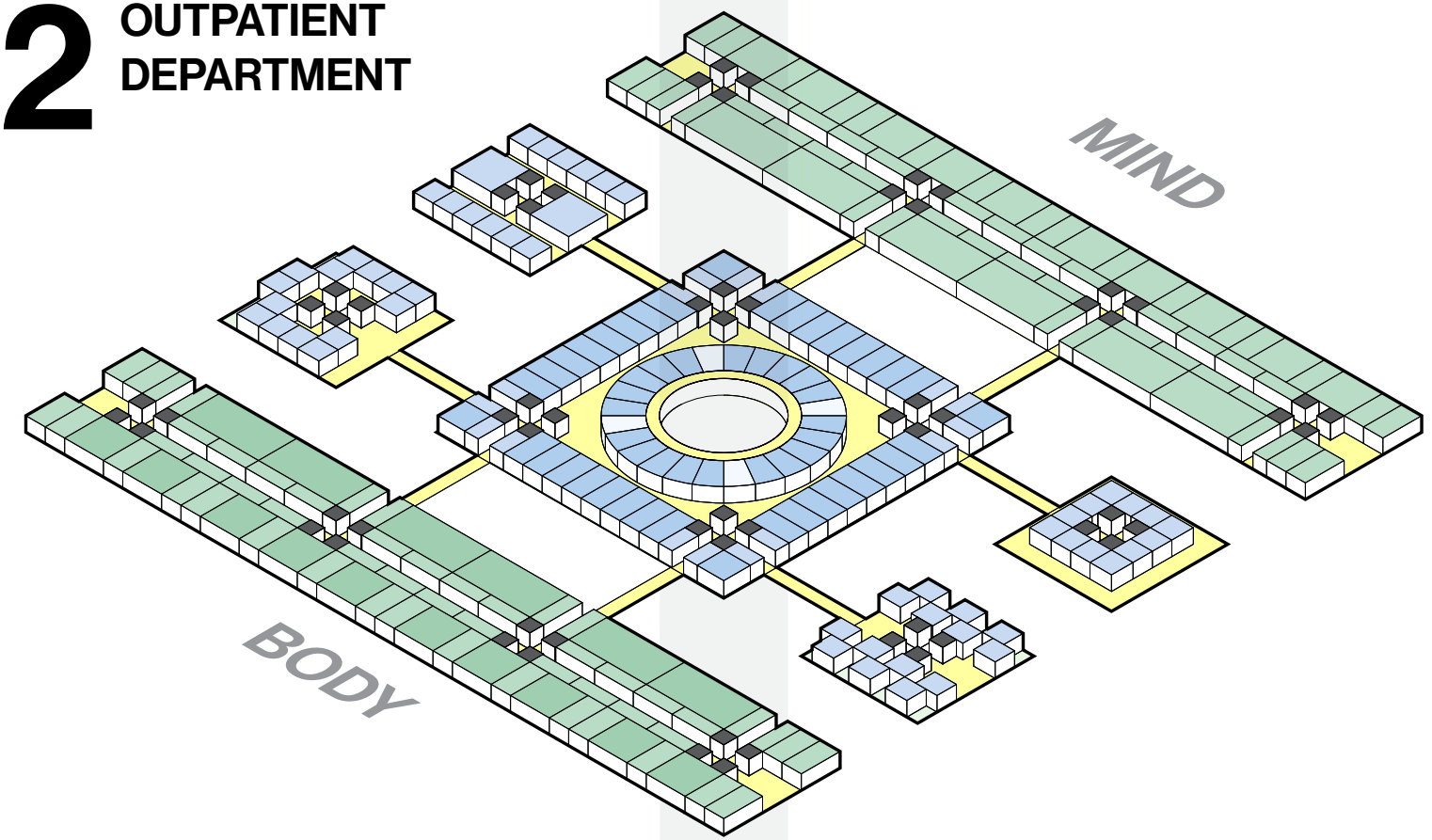
03 INPATIENT DEPARTMENT



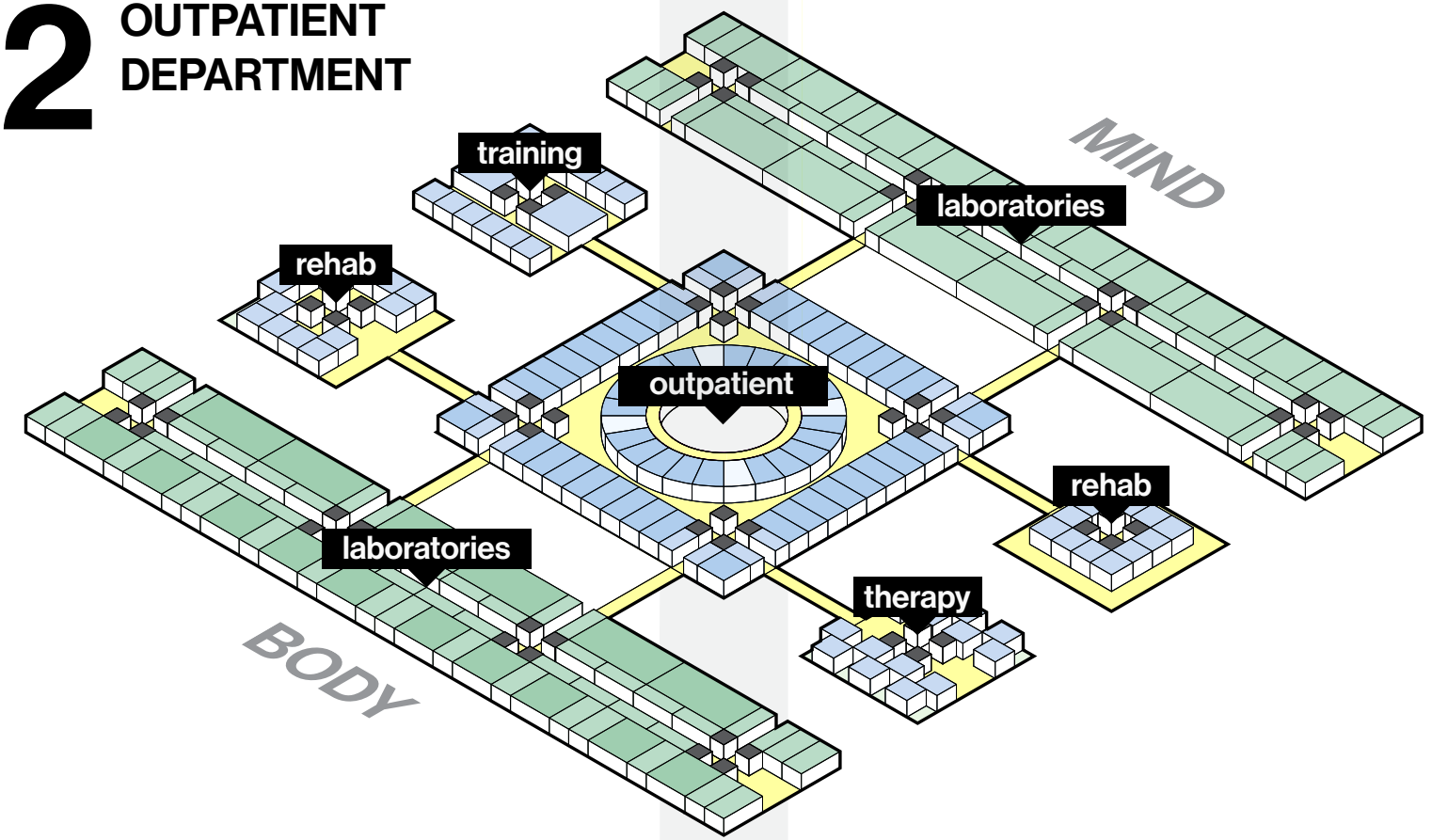
03 INPATIENT DEPARTMENT



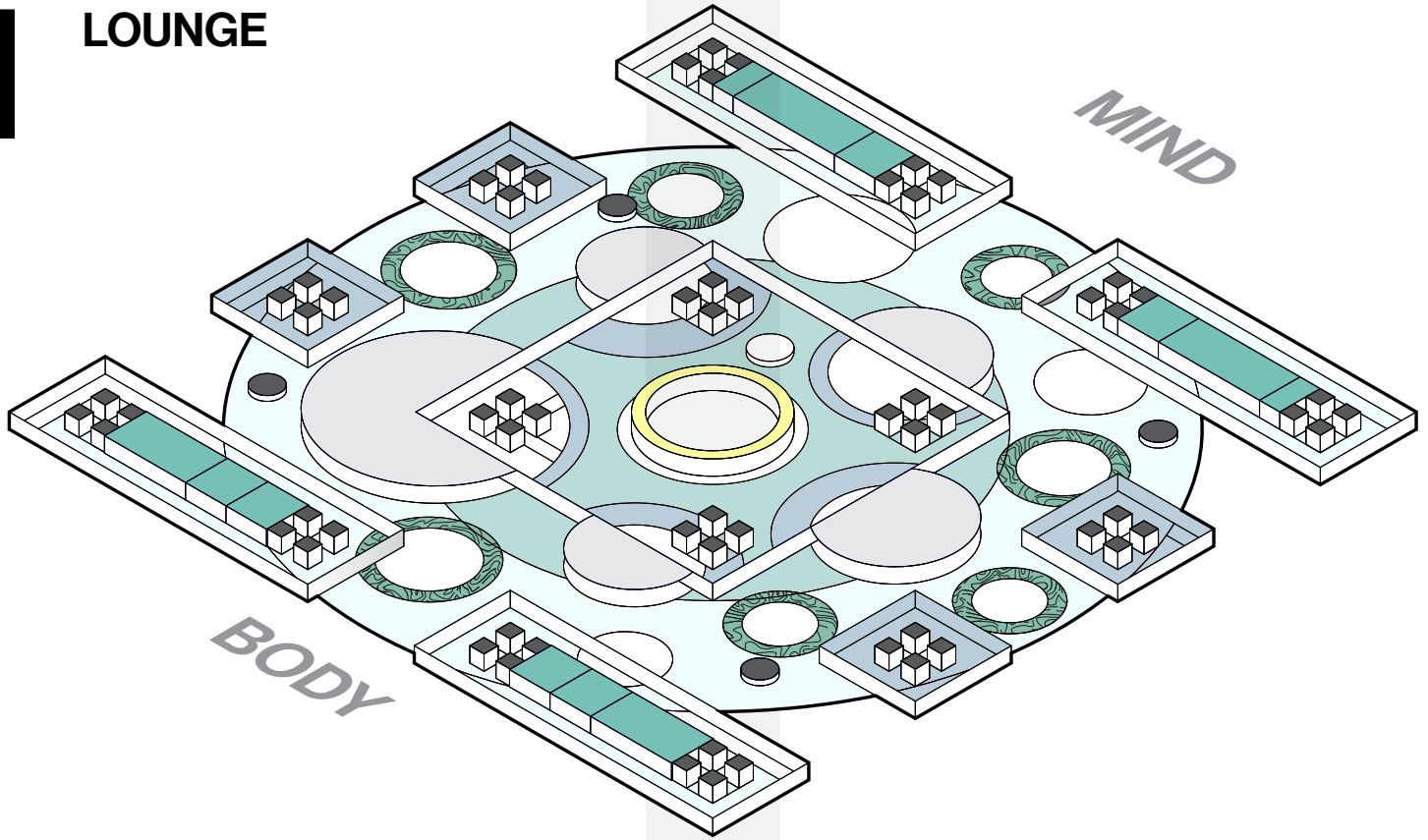
02 OUTPATIENT DEPARTMENT



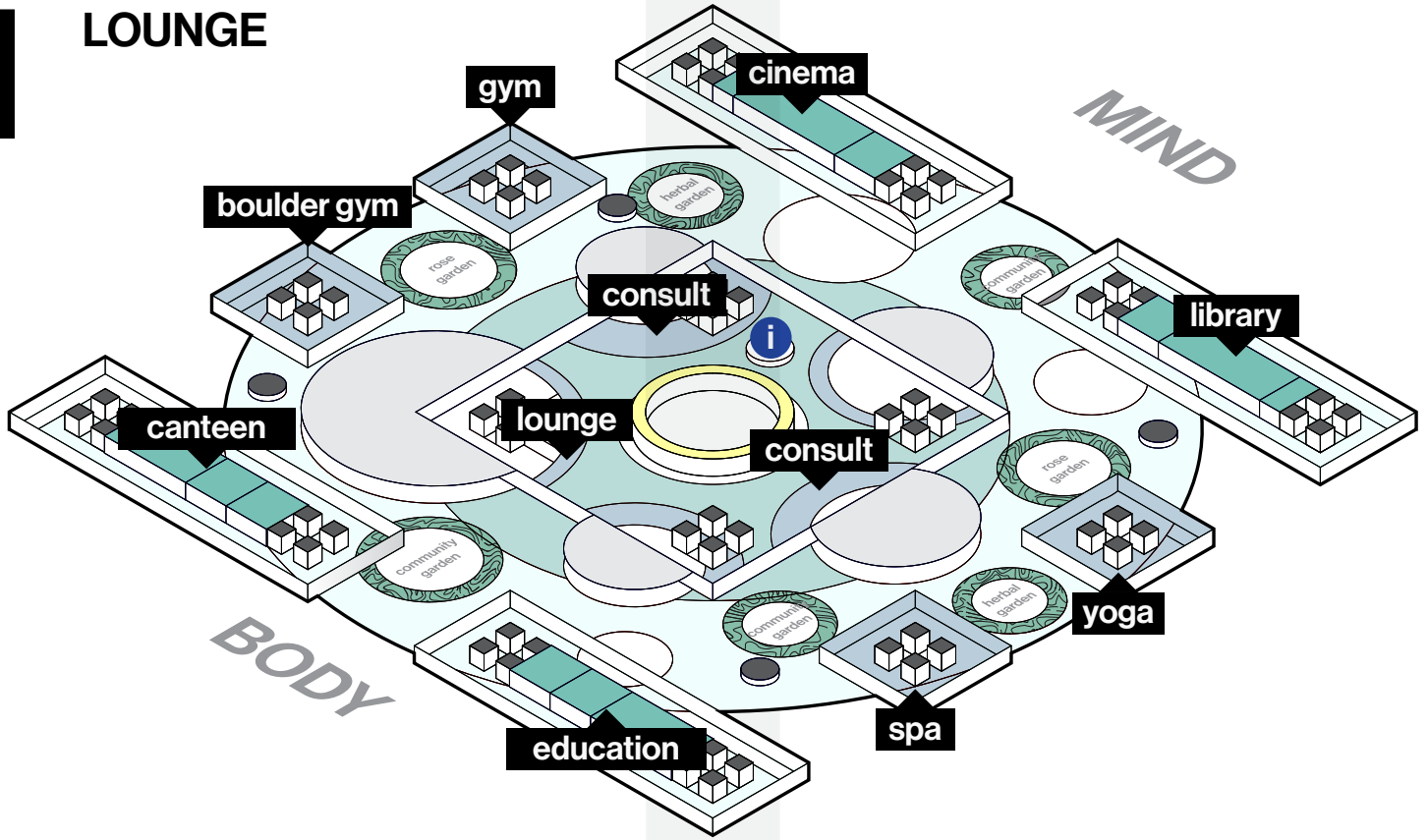
02 OUTPATIENT DEPARTMENT



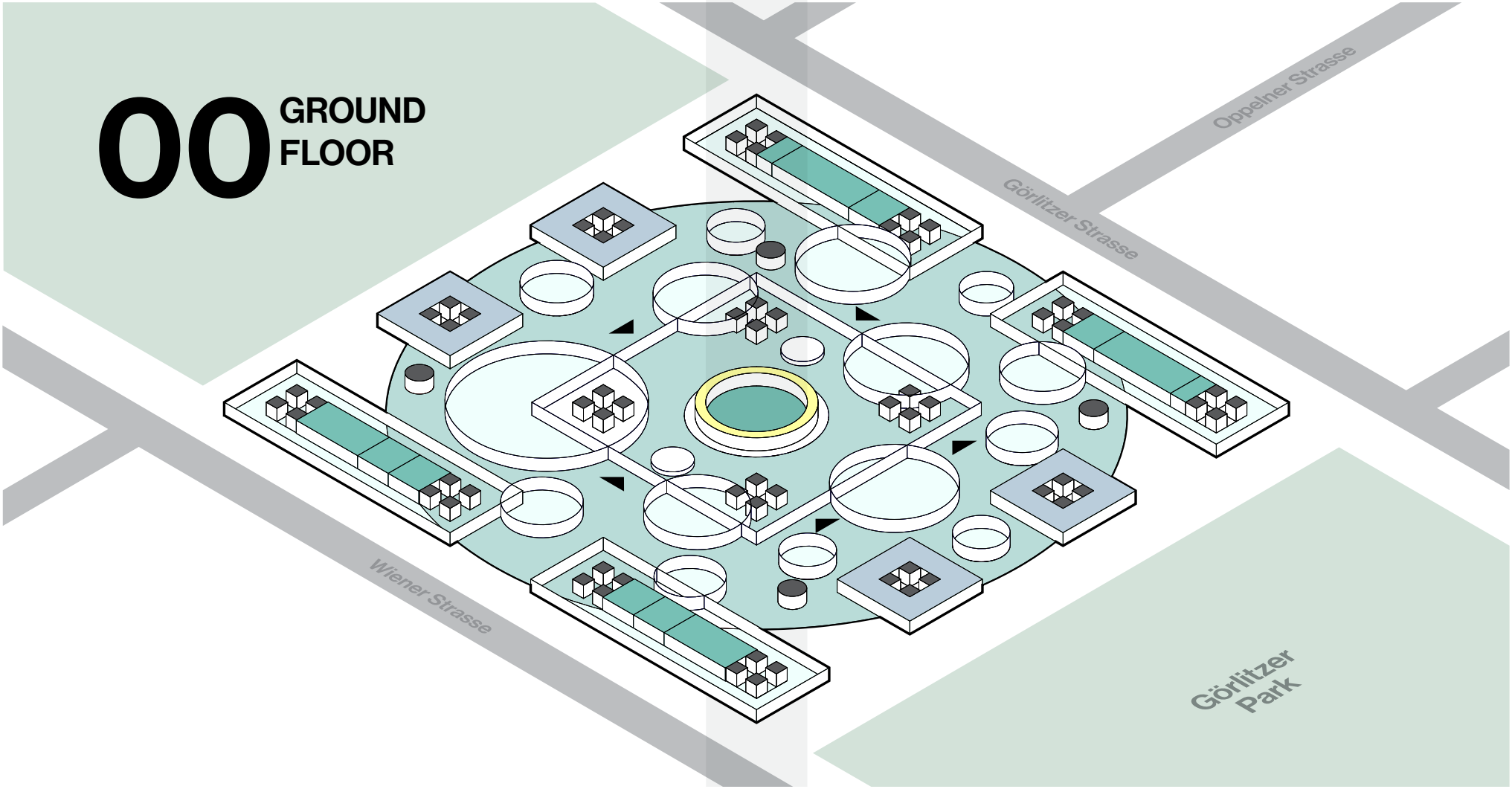
01 LOUNGE



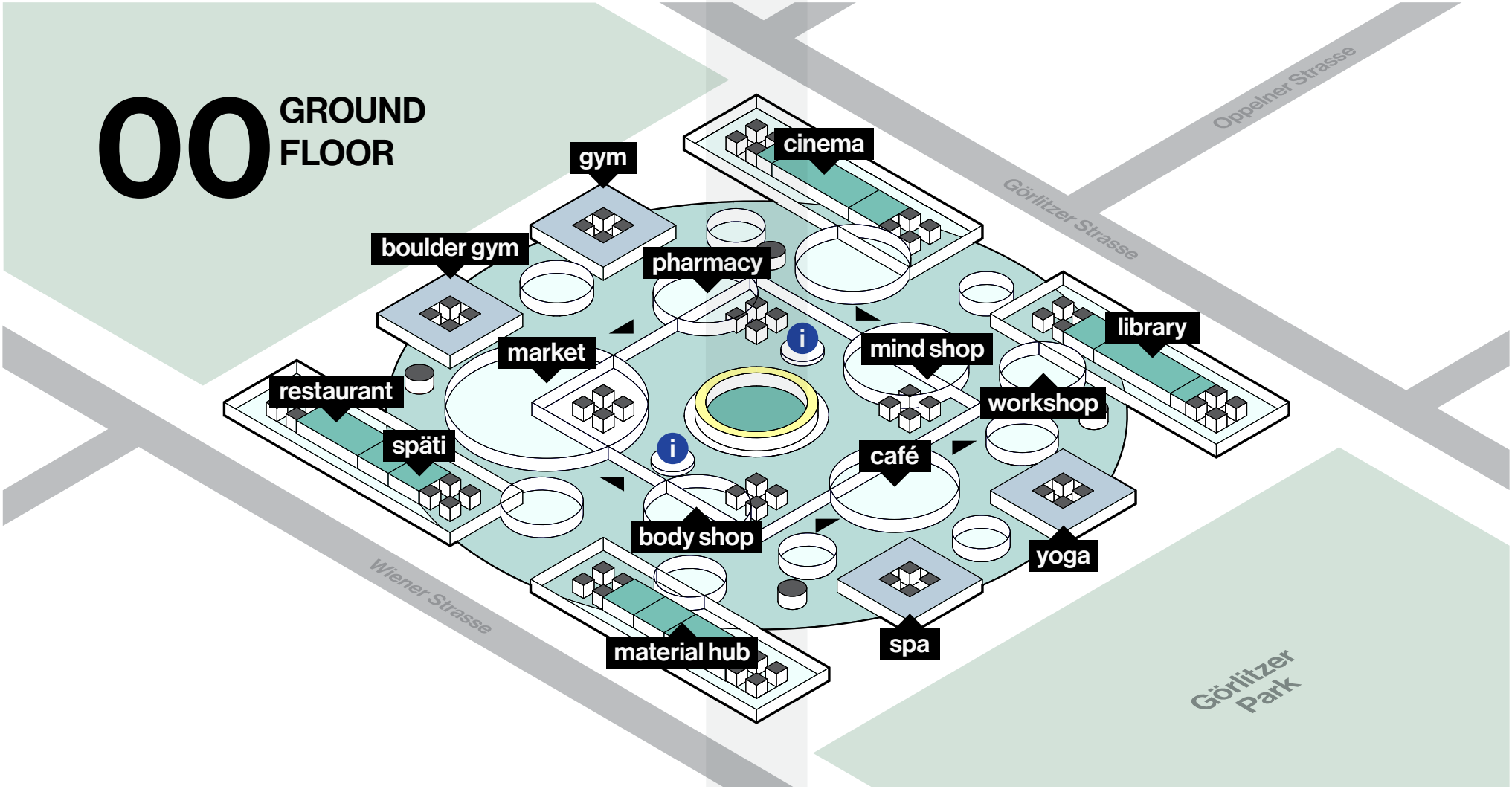
01 LOUNGE


gym
cinema
MIND
boulder gym
herbal garden
rose garden
consult
library
canteen
lounge
consult
rose garden
community garden
yoga
herbal garden
community garden
BODY
education
spa

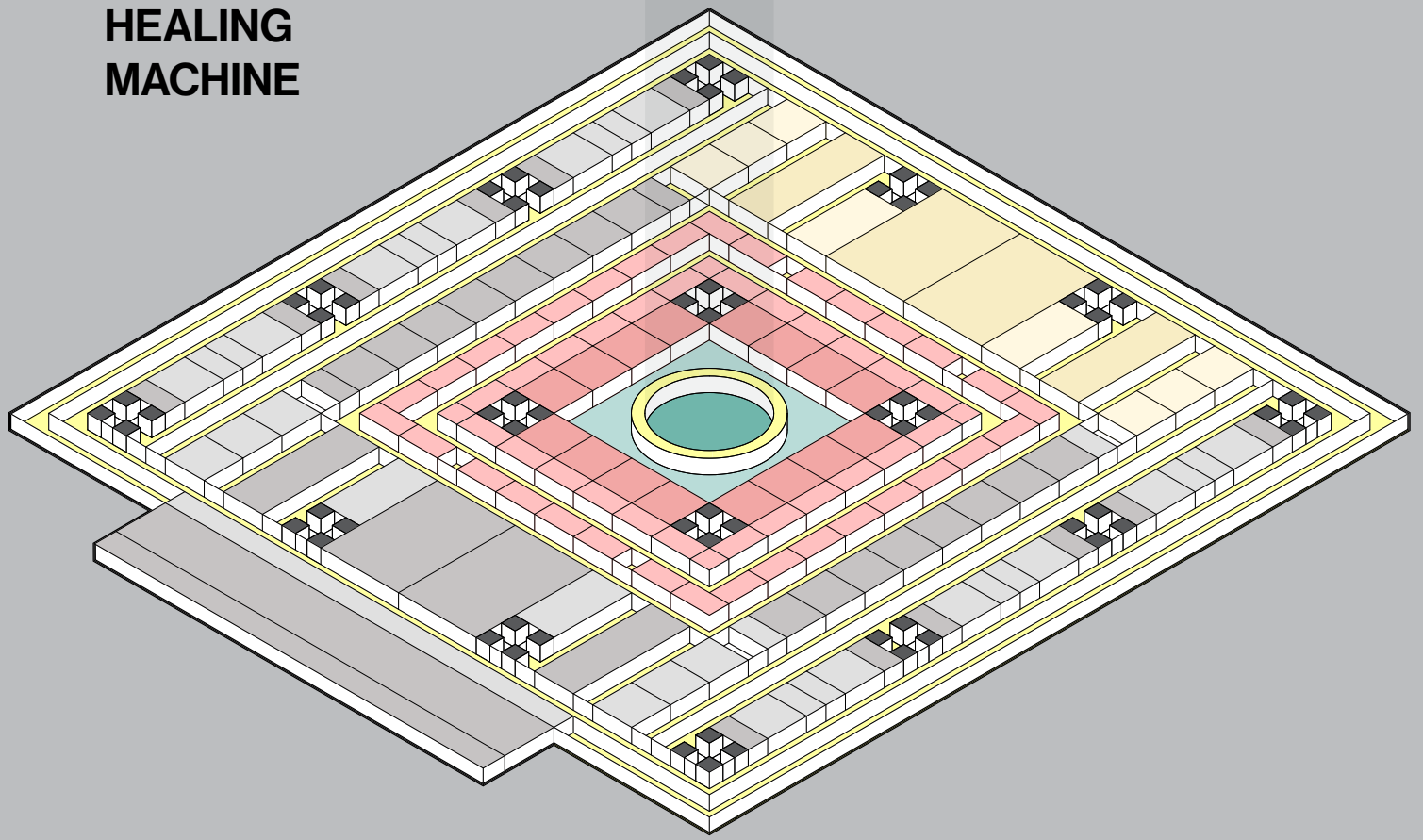
00 GROUND FLOOR



00 GROUND FLOOR

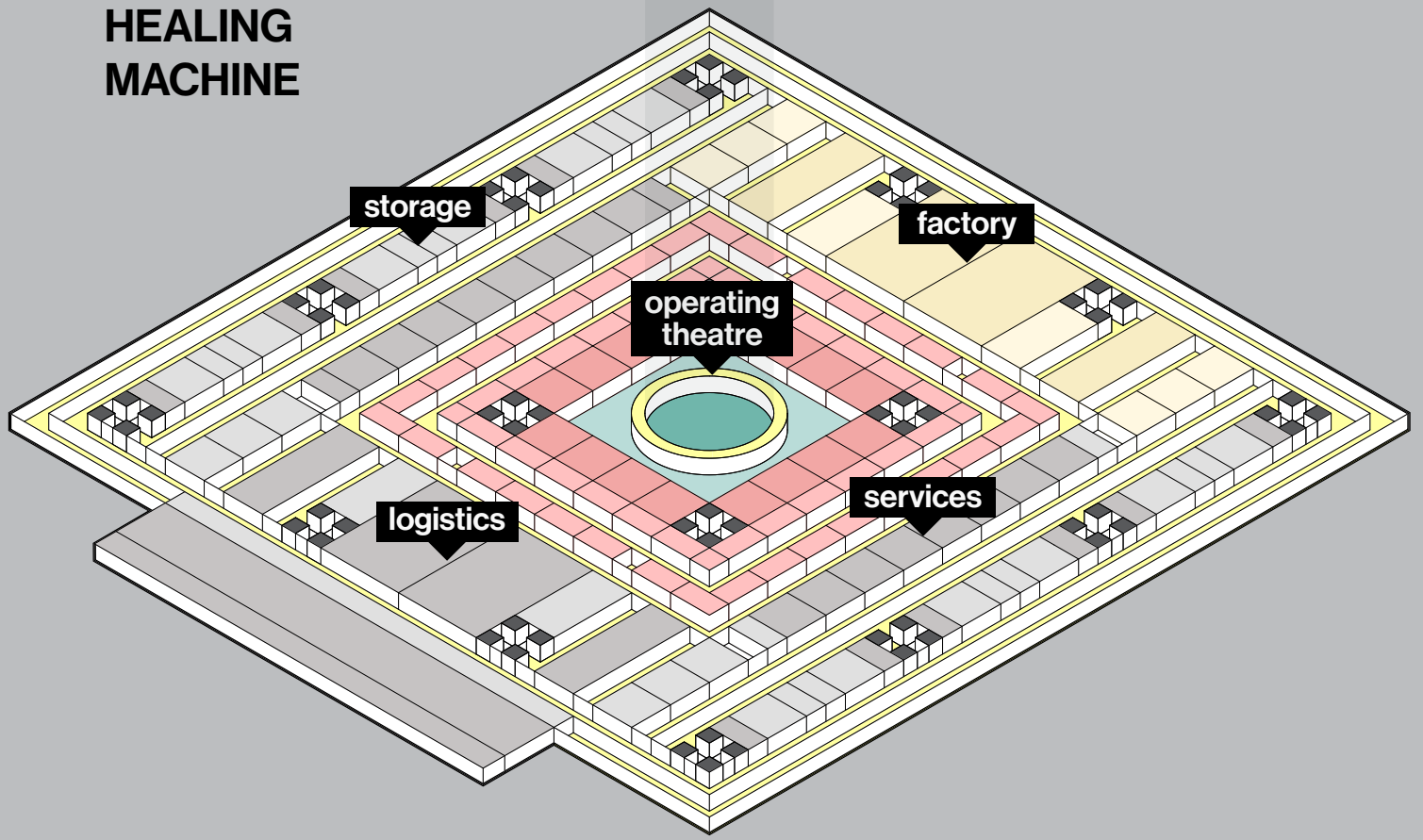


-1 HEALING MACHINE



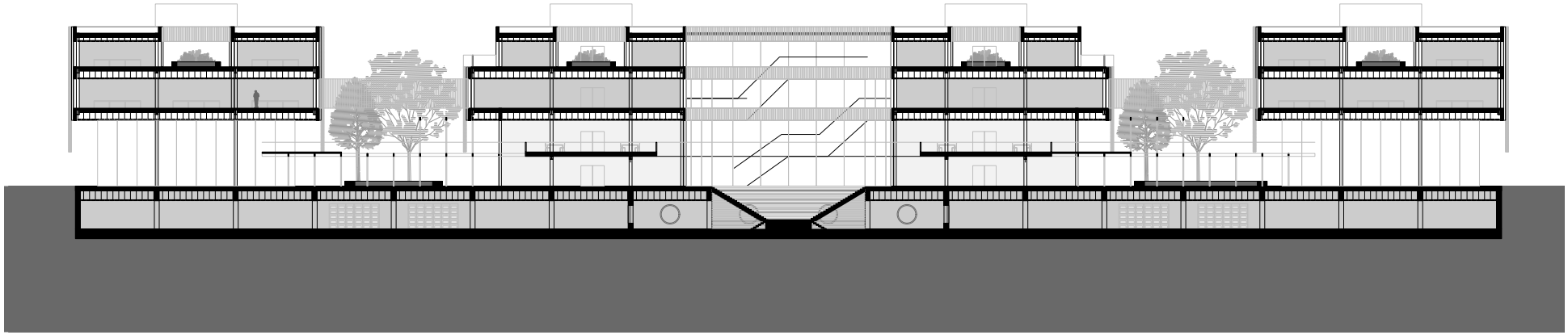
HOT FLOOR
HOTEL
OFFICE
PUBLIC
RESEARCH
FACTORY
CIRCULATION

-1 HEALING MACHINE

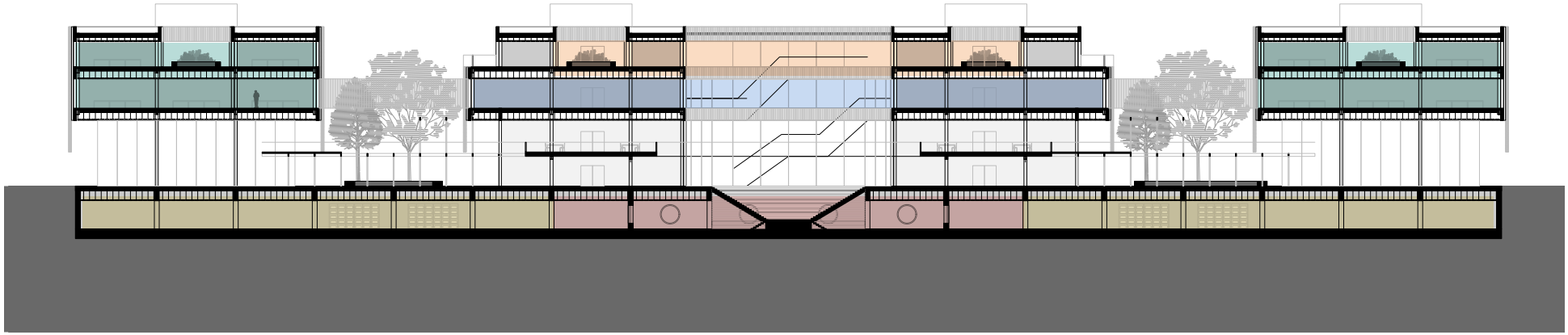


HOT FLOOR
HOTEL
OFFICE
PUBLIC
RESEARCH
FACTORY
CIRCULATION

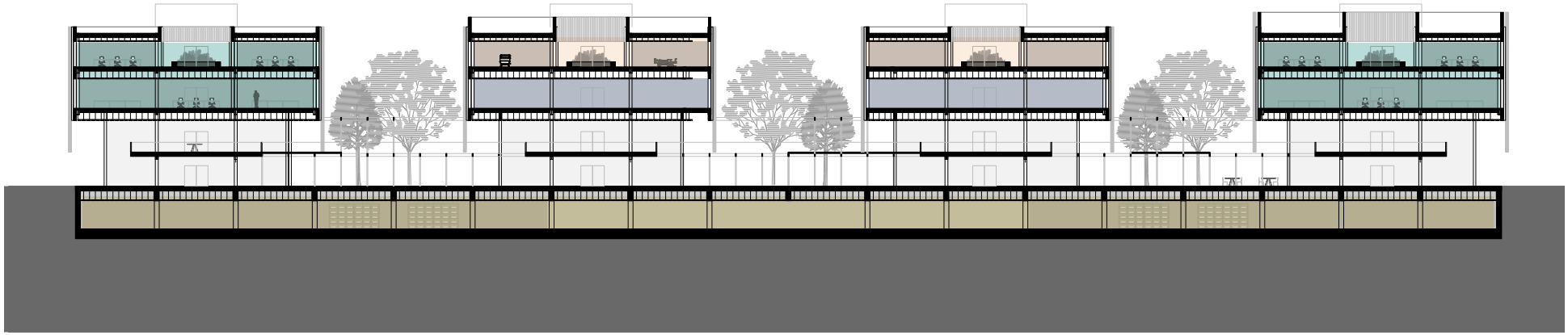
SECTION - MID



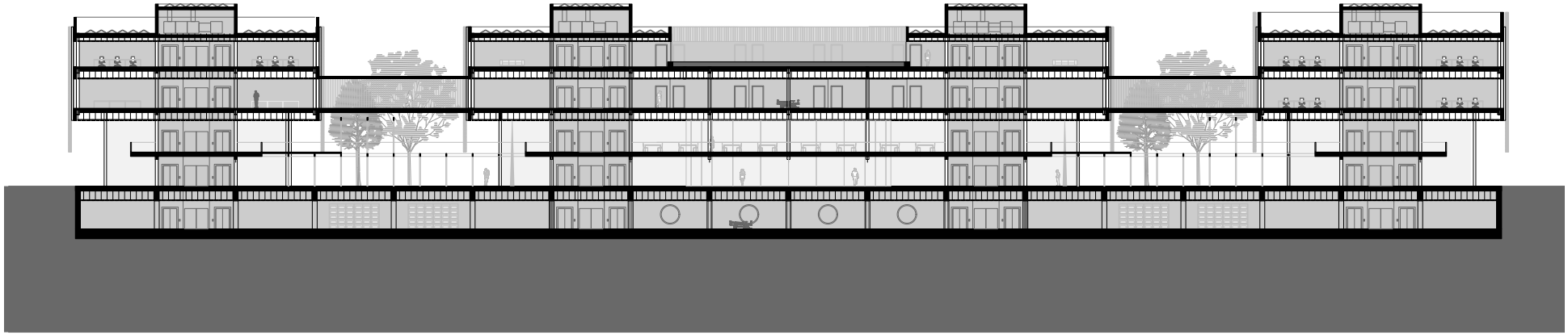
SECTION - MID



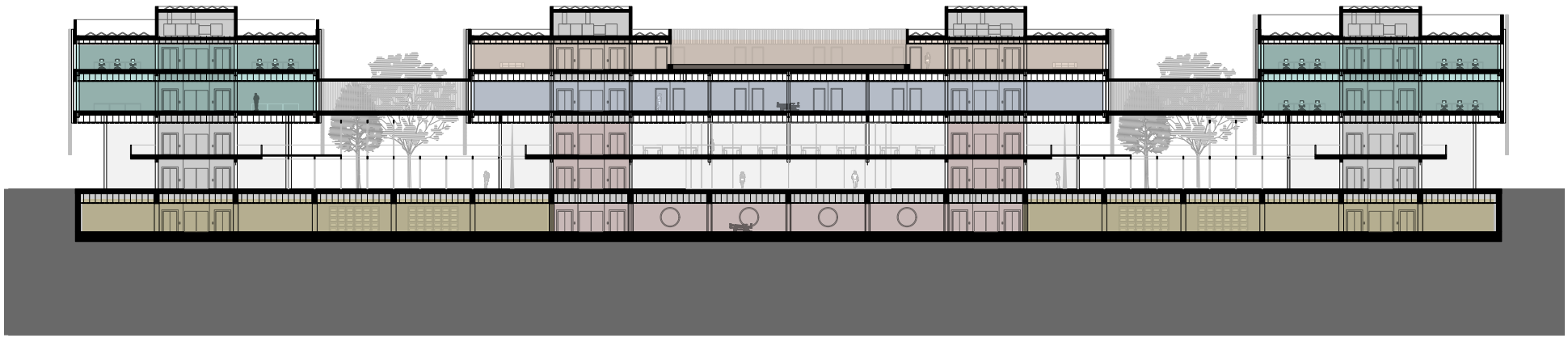
SECTION - SPLIT



SECTION - CORE



SECTION - CORE



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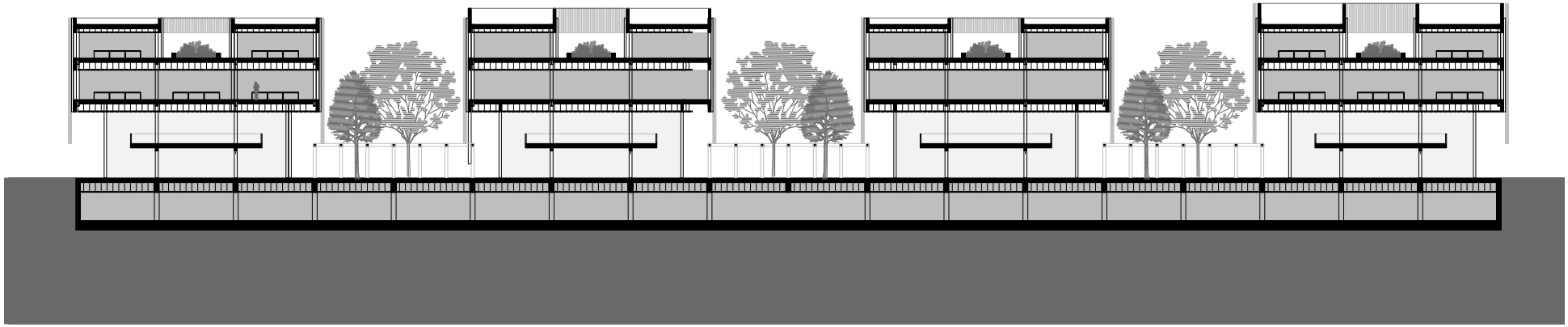
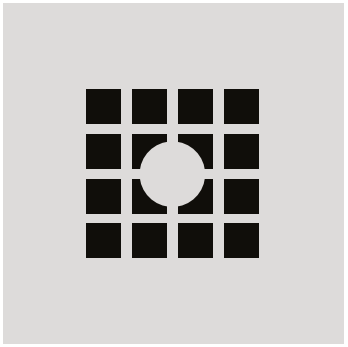


XL - L - M - **S** - XS

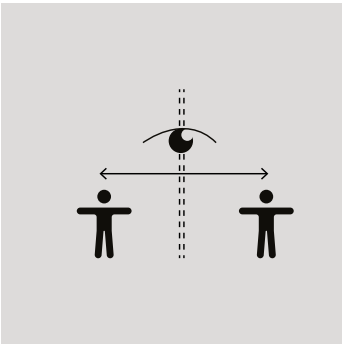
“TRANSITIONS”

BUILDING - ACCESIBILITY

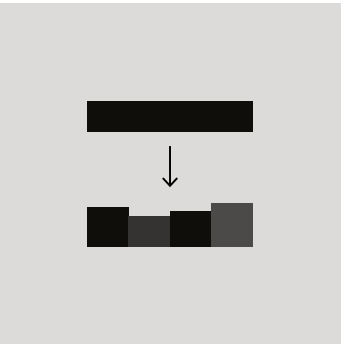
A pattern language: towns, buildings, construction - relevant patterns



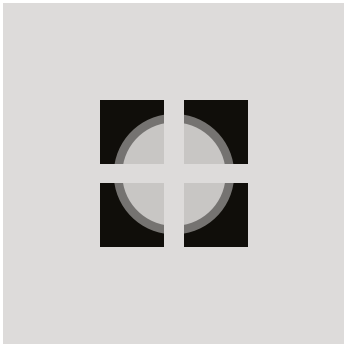
#106 - Positive Outdoor Space



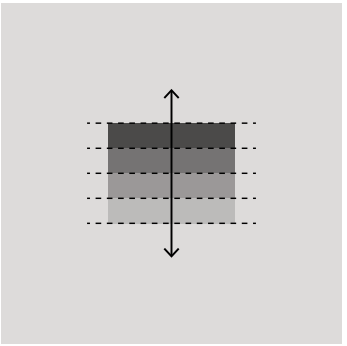
#162 - Street Windows



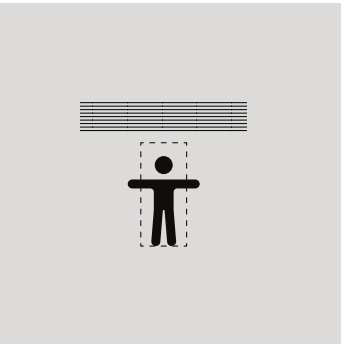
#136 - Building Fronts



#150 - Activity Pockets



#112 - Entrance Transition

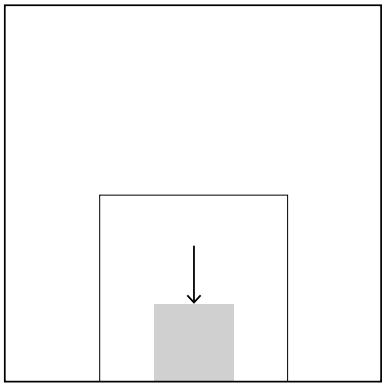


#204 - Human Scale

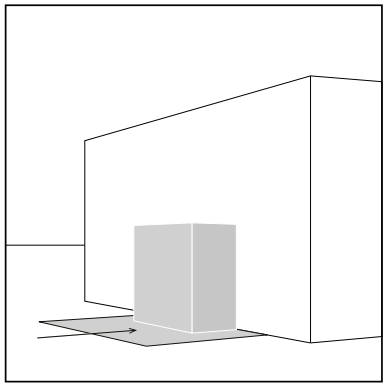
Alexander, C., Ishikawa, S., Silverstein, M., Jacobson, M., Fiksdahl-King, I., & Angel, S. (1977). A pattern language: towns, buildings, construction (Vol. 1, Issue 5). https://ci.nii.ac.jp/ncid/BA00163982

THRESHOLDS

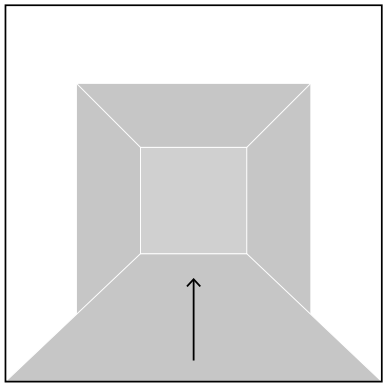
I. RECOGNITION



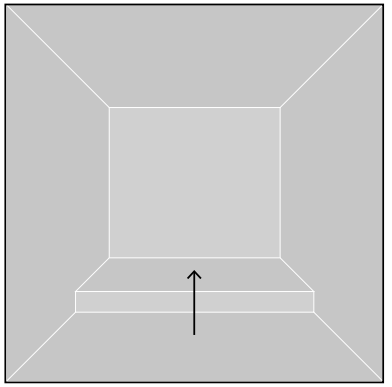
II. APPROACH

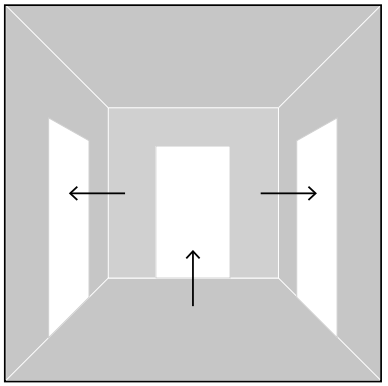


III. REACHING

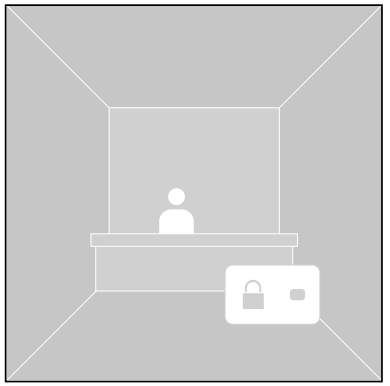


IV. ARRIVAL

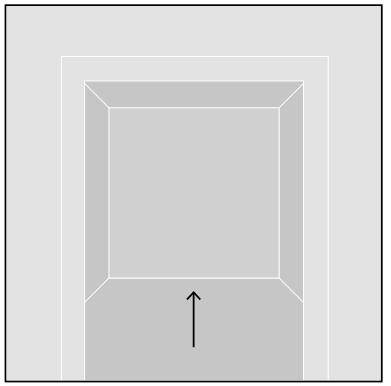




V. ORIENTATION & INFORMATION



VI. MONITORING / ACCESS

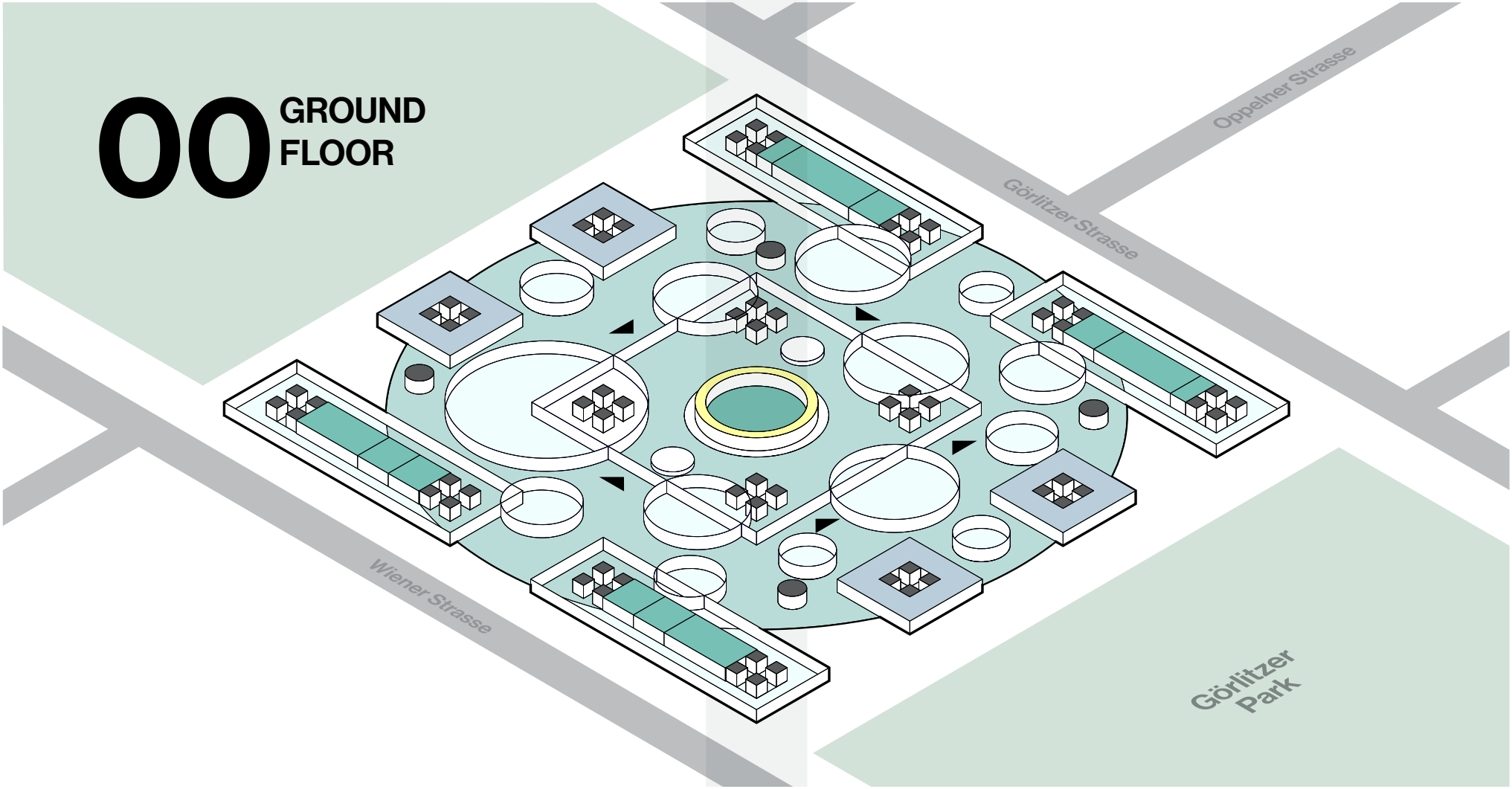


VII. EXIT

BOETTGER, T. (2014B). THRESHOLD SPACES: TRANSITIONS IN ARCHITECTURE. ANALYSIS AND DESIGN TOOLS. BIRKHÄUSER.

URBAN IMPLEMENTATION

00 GROUND FLOOR



FLOOR PLANS

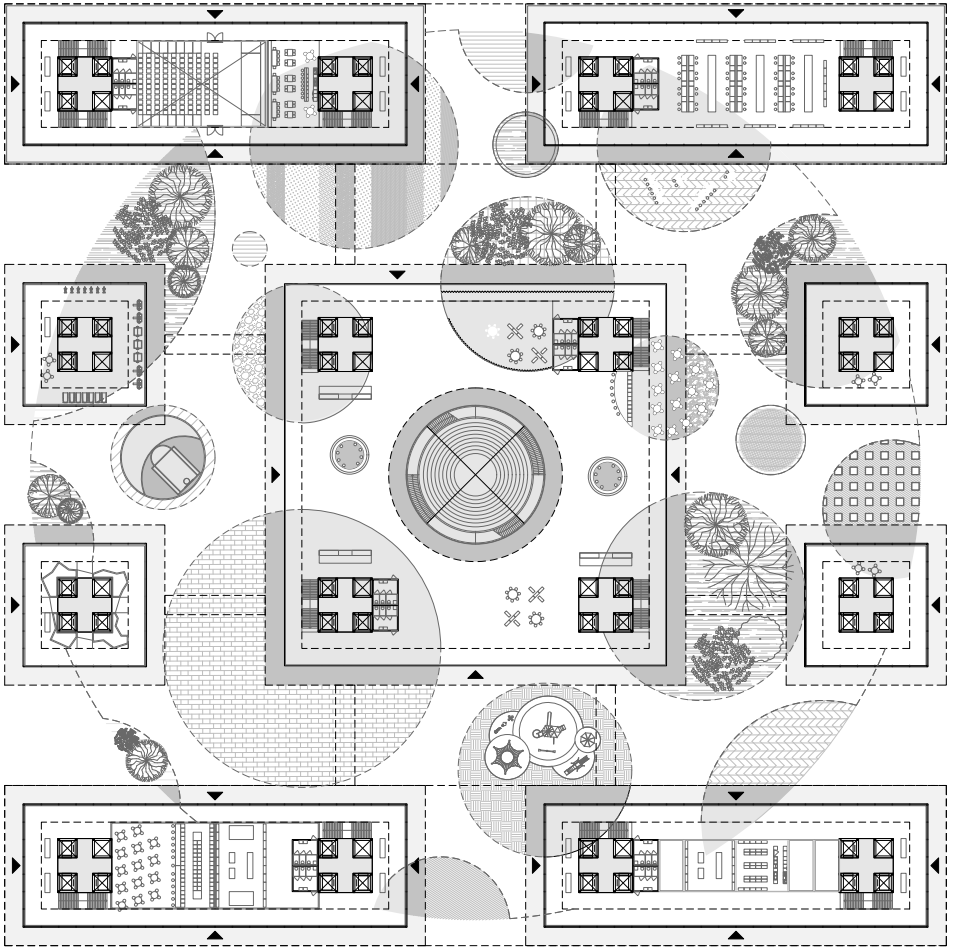
L00

PROGRAM OVERVIEW

A - PUBLIC PROGRAM
1 - AMPHITHEATRE
2 - RESTAURANT
3 - CINEMA
4 - GYM
5 - BOULDER GYM
6 - WORKSHOP
7 - SPÄTI - SHOP
8 - EXHIBITION
9 - HAIR DRESSER
10 - FLOWER KIOSK
11 - MATERIAL HUB
12 - PHARMACY
13 - MED RETAIL
14 - TOILETS

B - OUTDOOR PROGRAM
1 - MARKET SQUARE
2 - CAFÉ SQUARE
3 - PLAYGROUND
4 - BASKETBALL COURT
5 - COMMUNITY GARDEN
- HERBS & VEGETABLES
6 - SKATE PARK
7 - GREENHOUSE
8 - WORKSHOP AREA
9 - ENCLOSED GARDEN
10 - SUNKEN GARDEN

C - HOSPITAL PROGRAM
1- CHECK-IN DESK
2 - WAITING AREA



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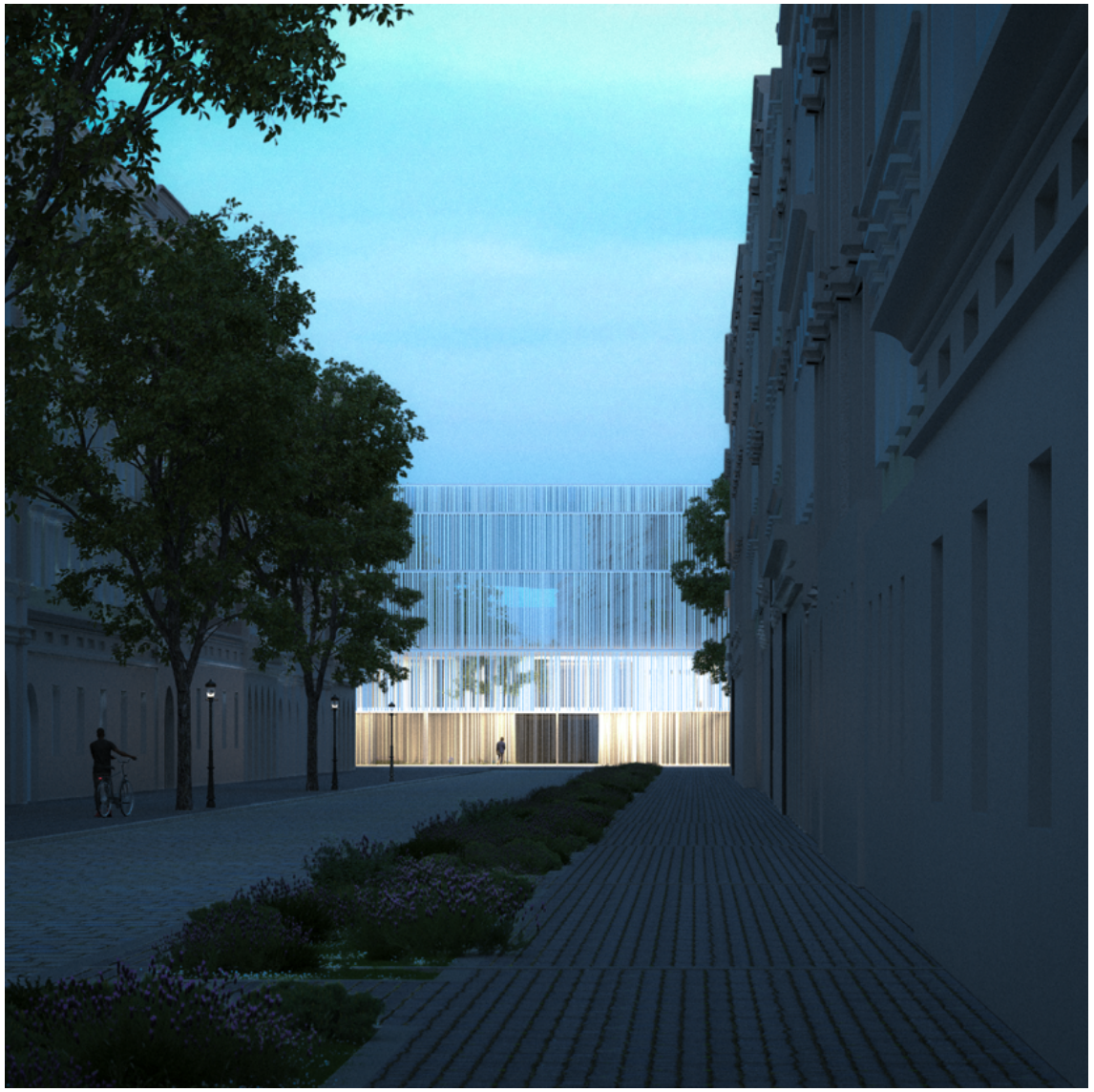
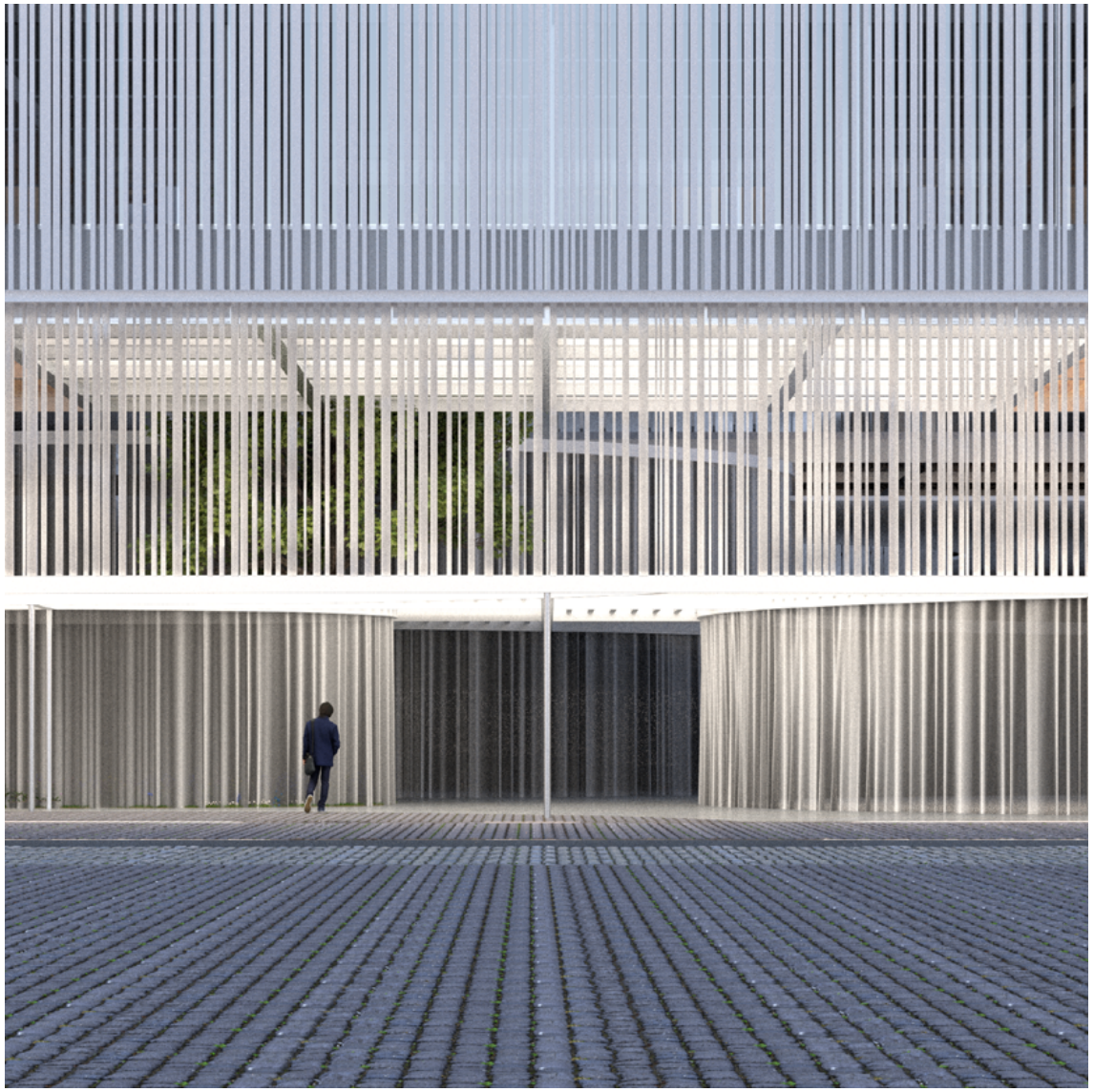
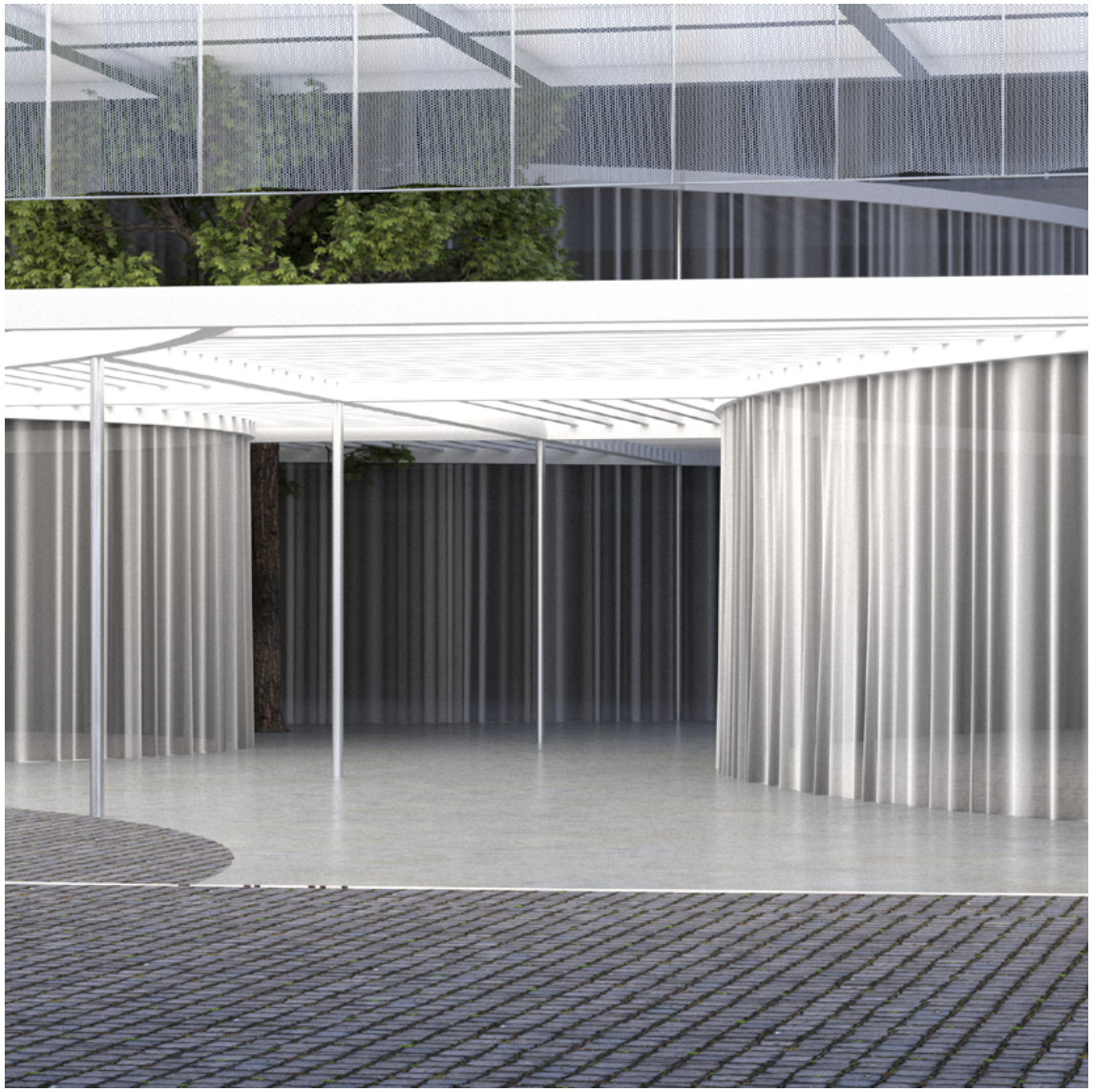
R1_EXTENSION OF THE URBAN FABRIC

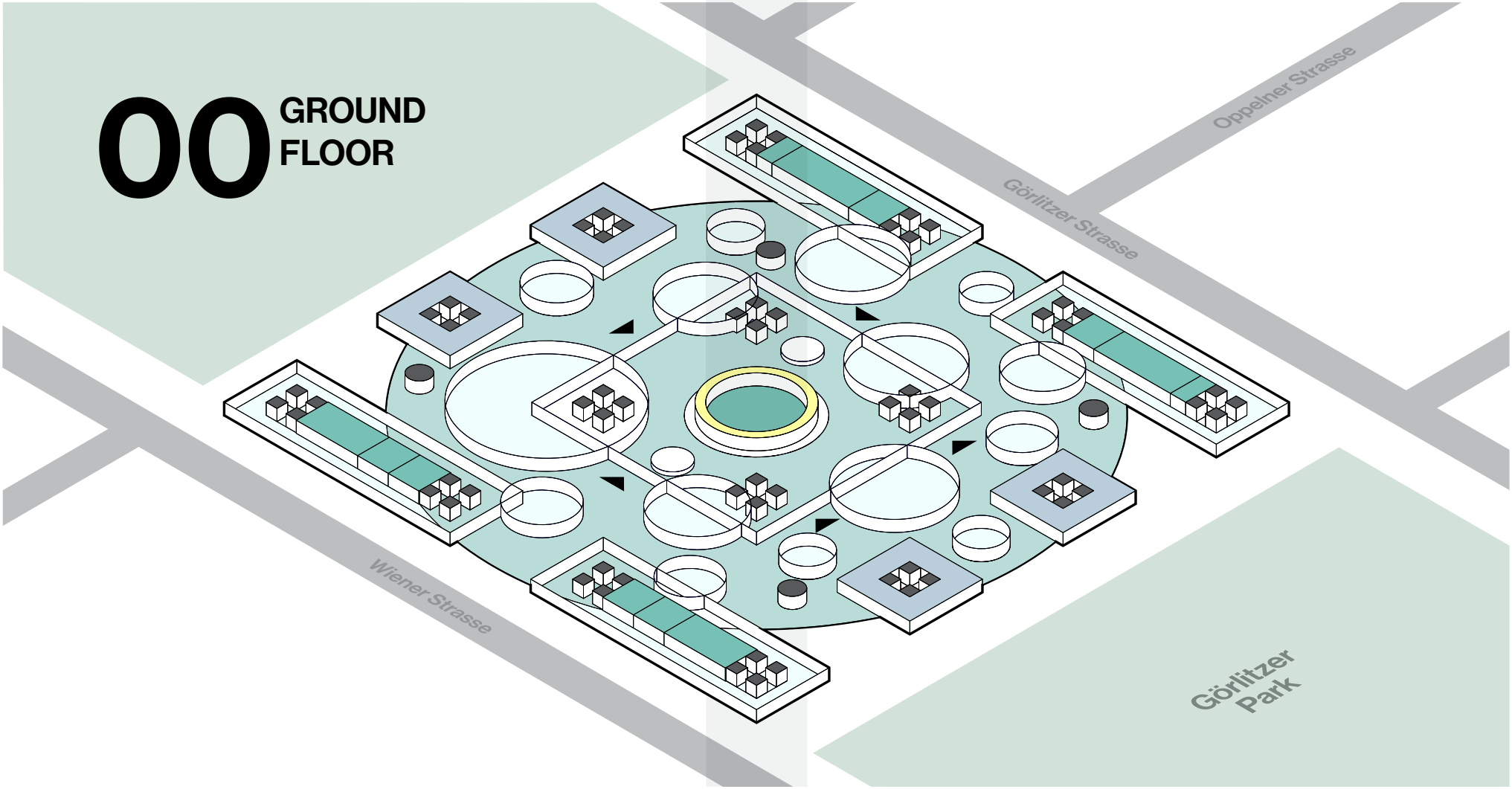
R1_EXTENSION OF THE URBAN FABRIC



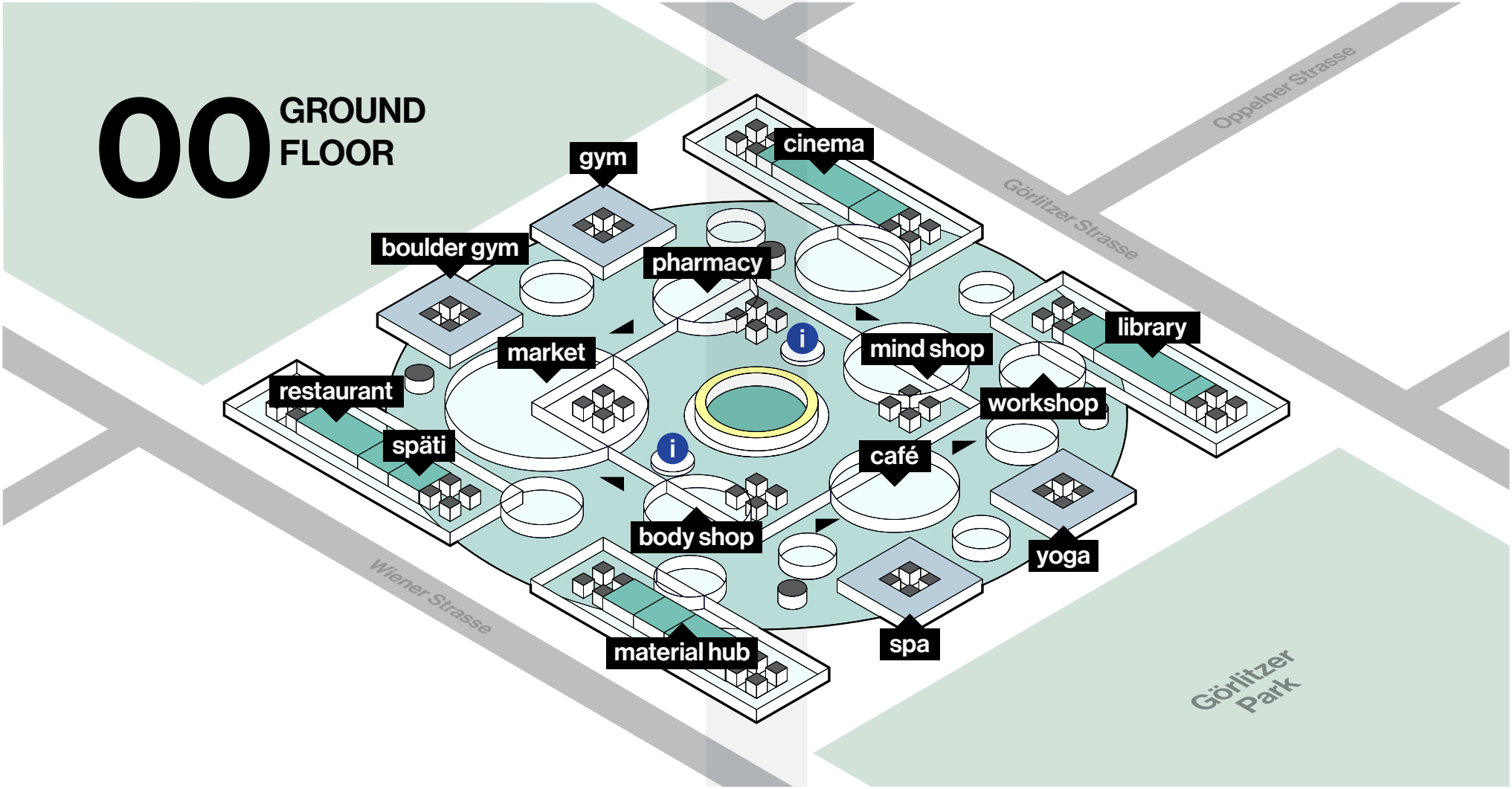




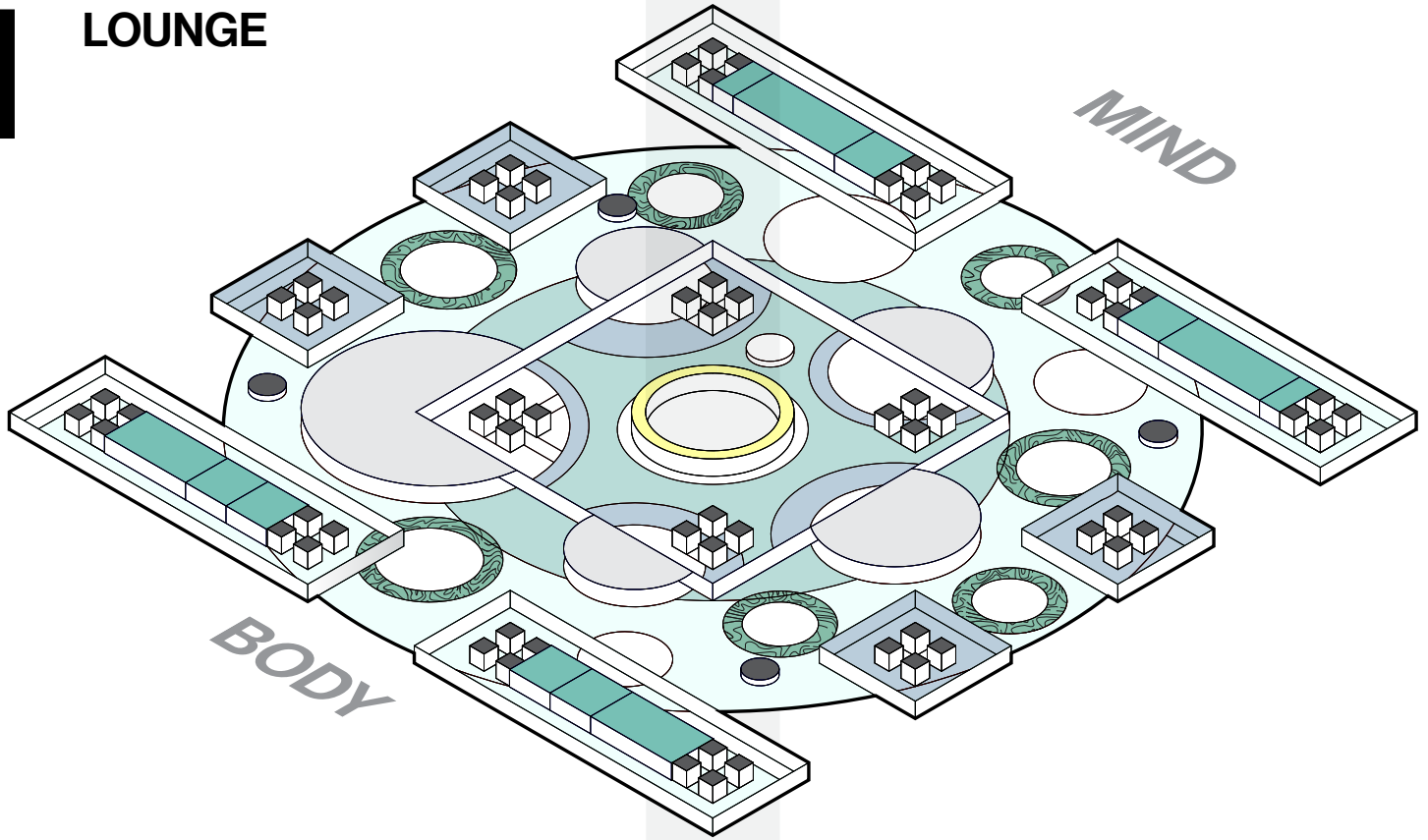
00 GROUND FLOOR



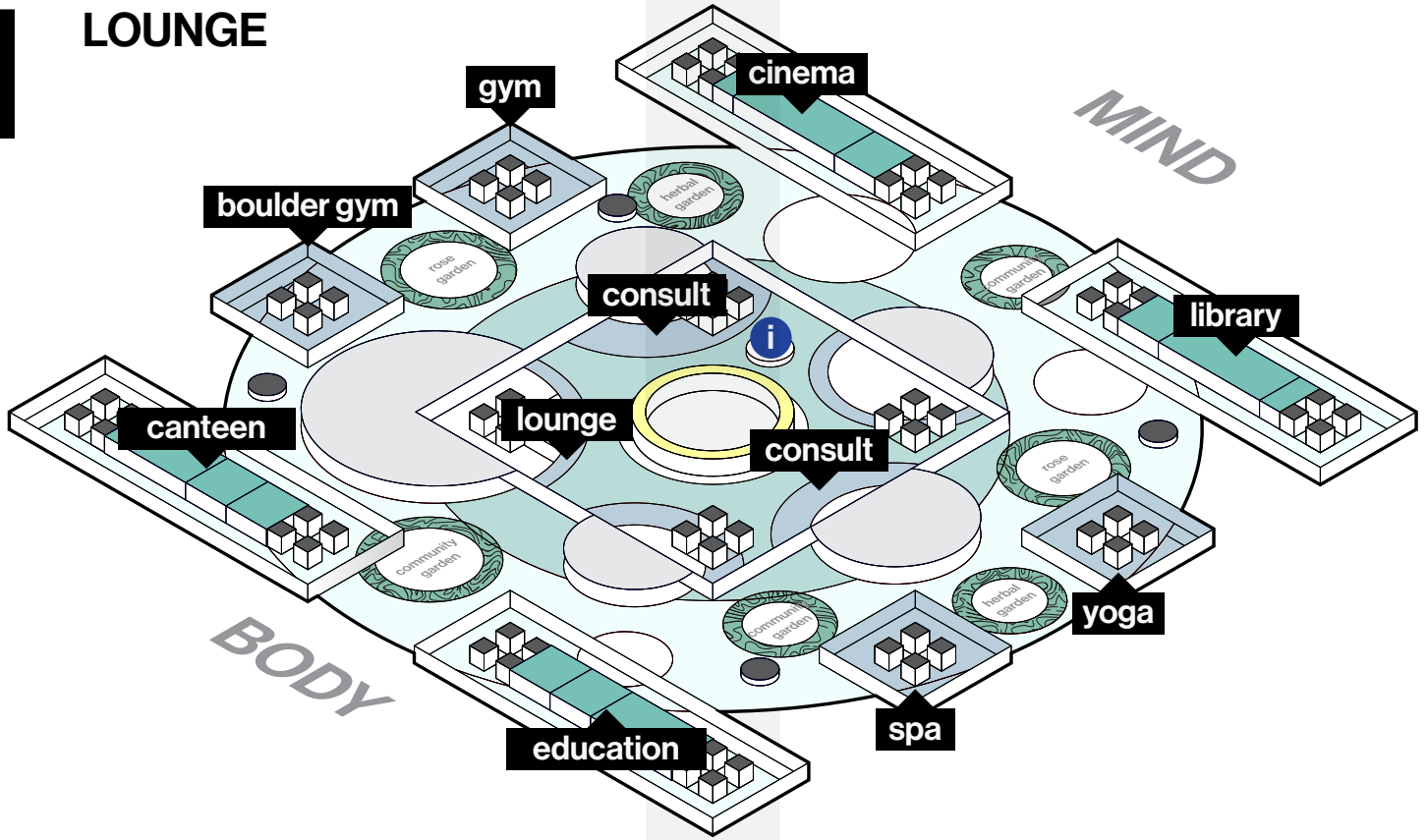
00 GROUND FLOOR



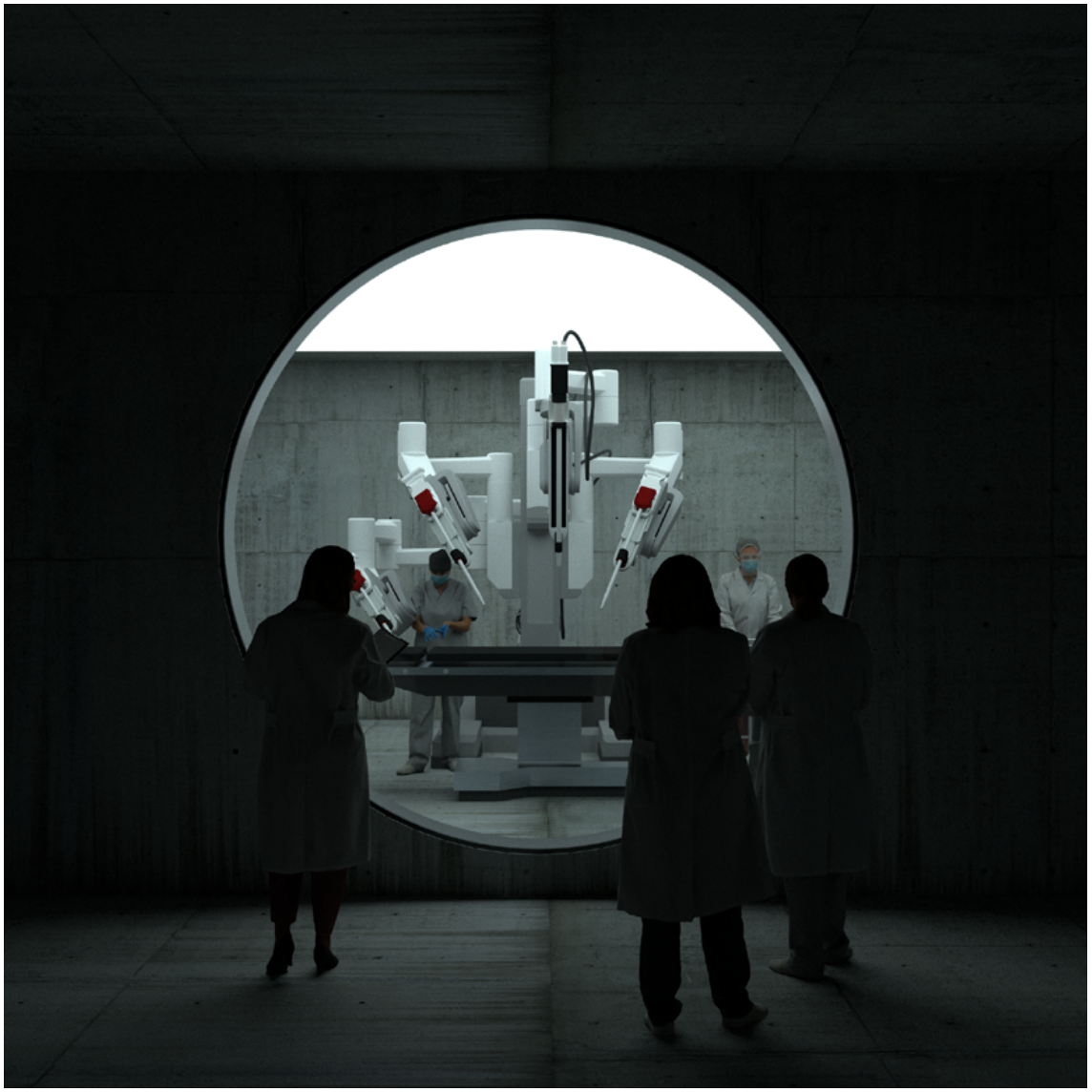
01 LOUNGE



01 LOUNGE


gym
cinema
MIND
boulder gym
herbal garden
rose garden
consult
library
canteen
lounge
consult
rose garden
community garden
yoga
herbal garden
community garden
BODY
education
spa

R4_ATRIUM



R1_EXTENSION OF THE URBAN FABRIC

XL - L - M - S - **XS**

“DETAILS”

Biomedical Waste Production in Hospitals

Hospitals, including AIIMS Delhi, generate a significant amount of waste from their medical activities. In 2018, AIIMS Delhi produced 74,500 kilograms of waste per month, or close to 2,500 kilograms each day. This included:

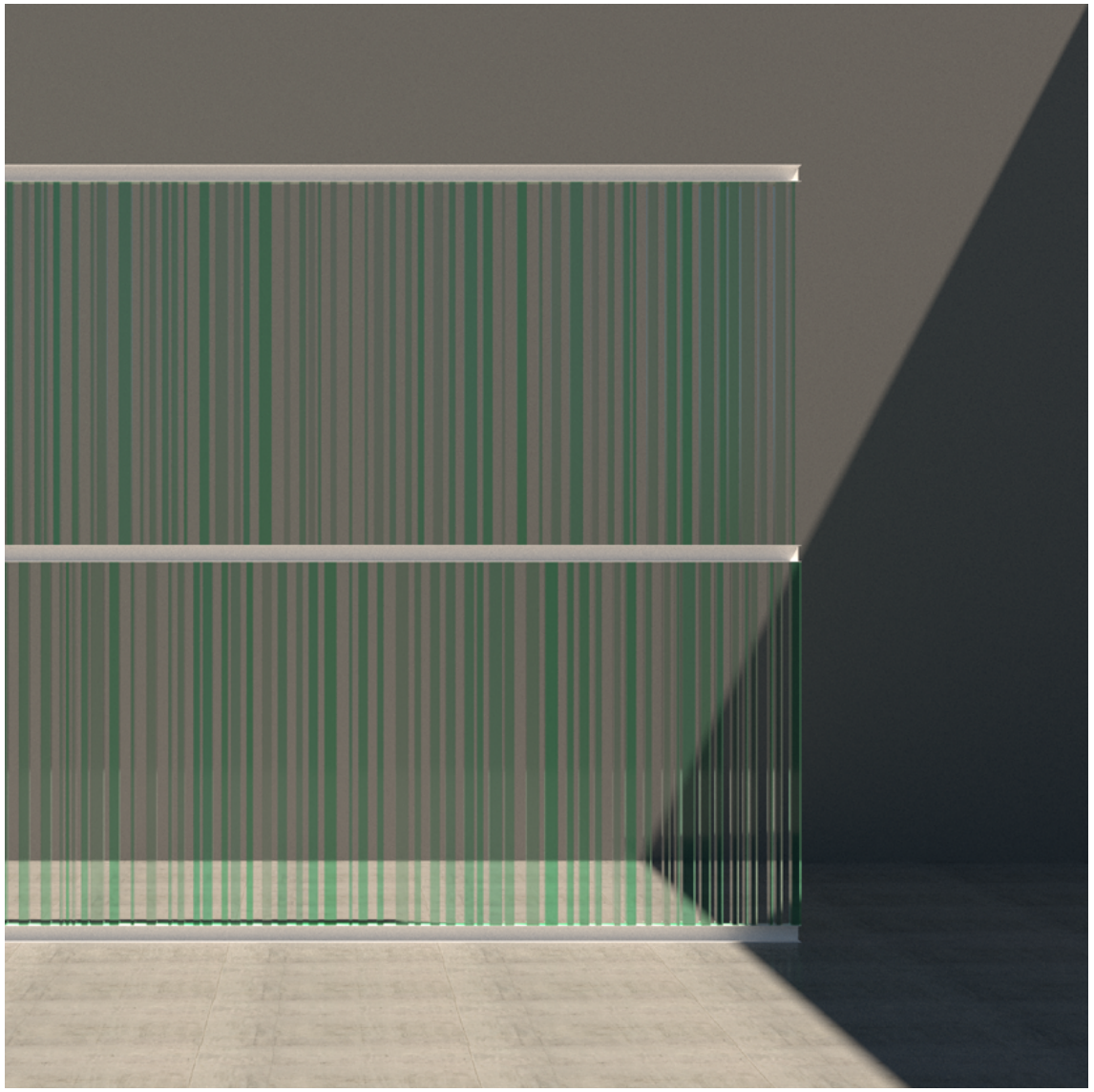
24,000 kilograms of yellow waste

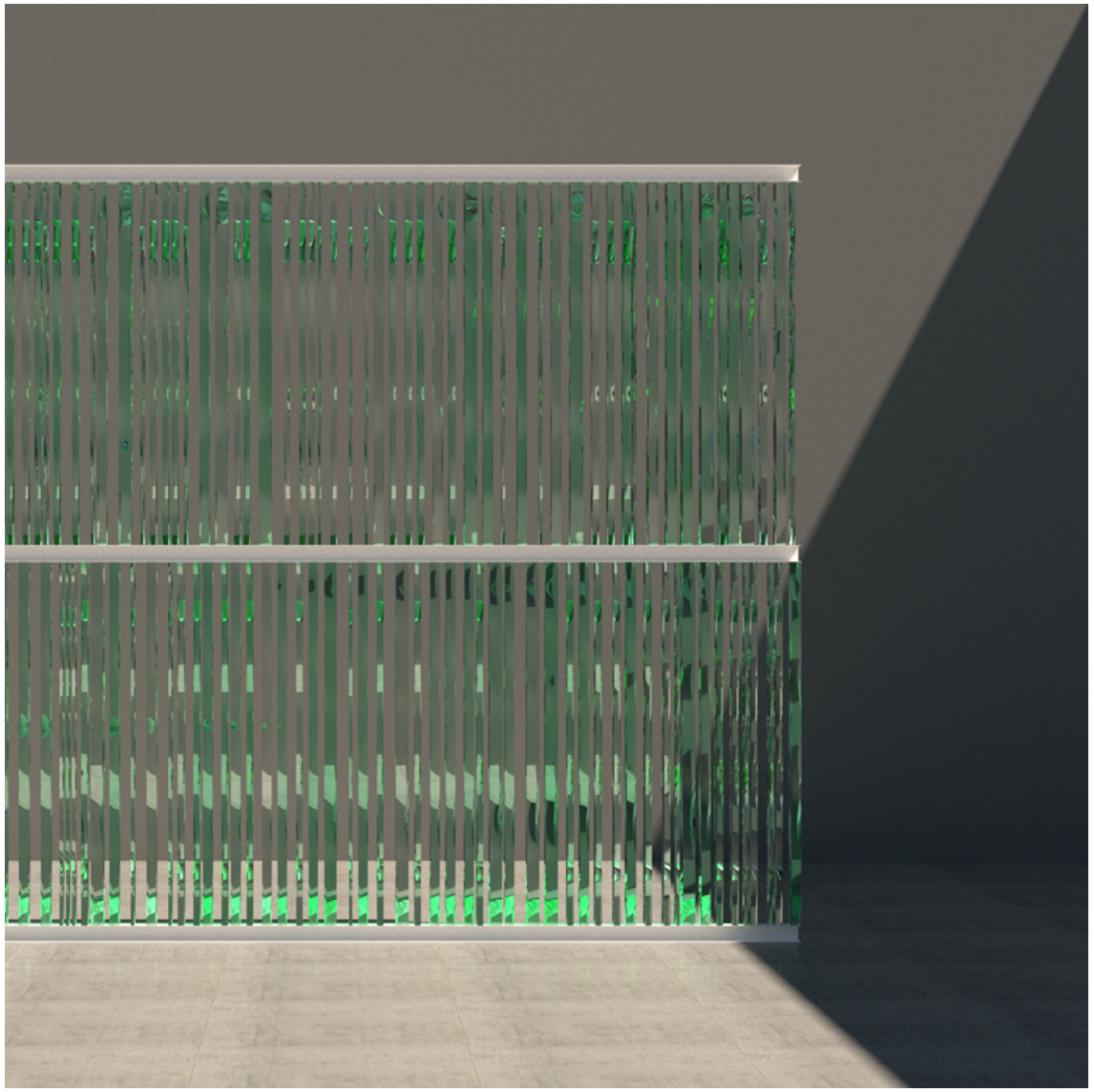
23,500 kilograms of plastic and rubber waste

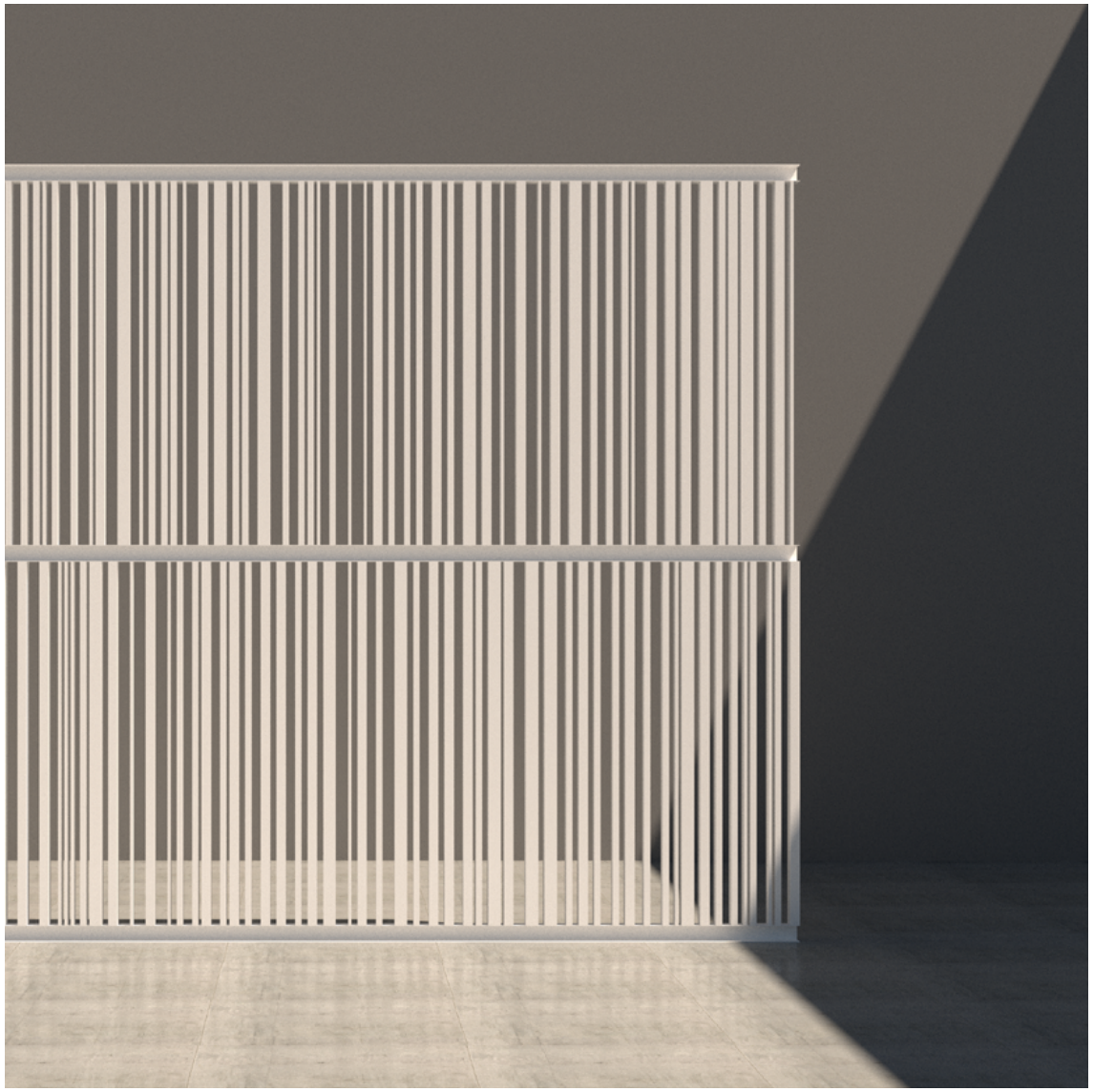
500 kilograms of sharp waste

26,200 kilograms of glass waste

2021030006G
2023/03/28
新型冠状病毒
(Vero细胞
6.5U/0.5mL
产品批号:
有效期至:





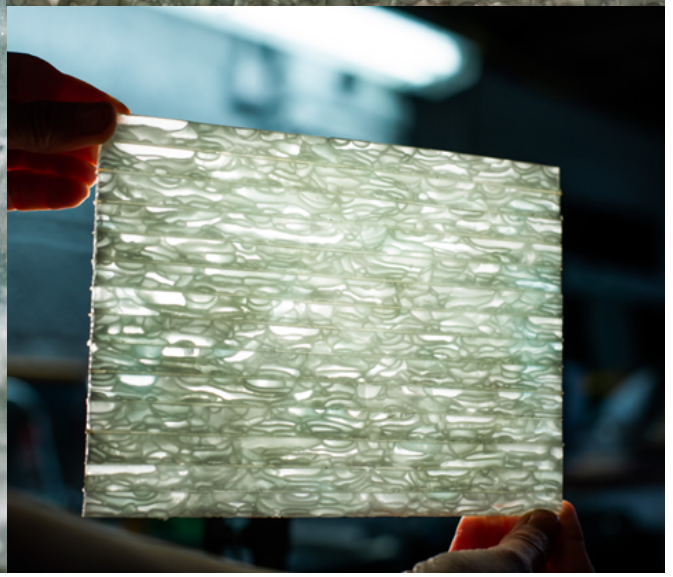


APPLE HQ -

ANNE HOLTROP - CAST GLASS TESTS

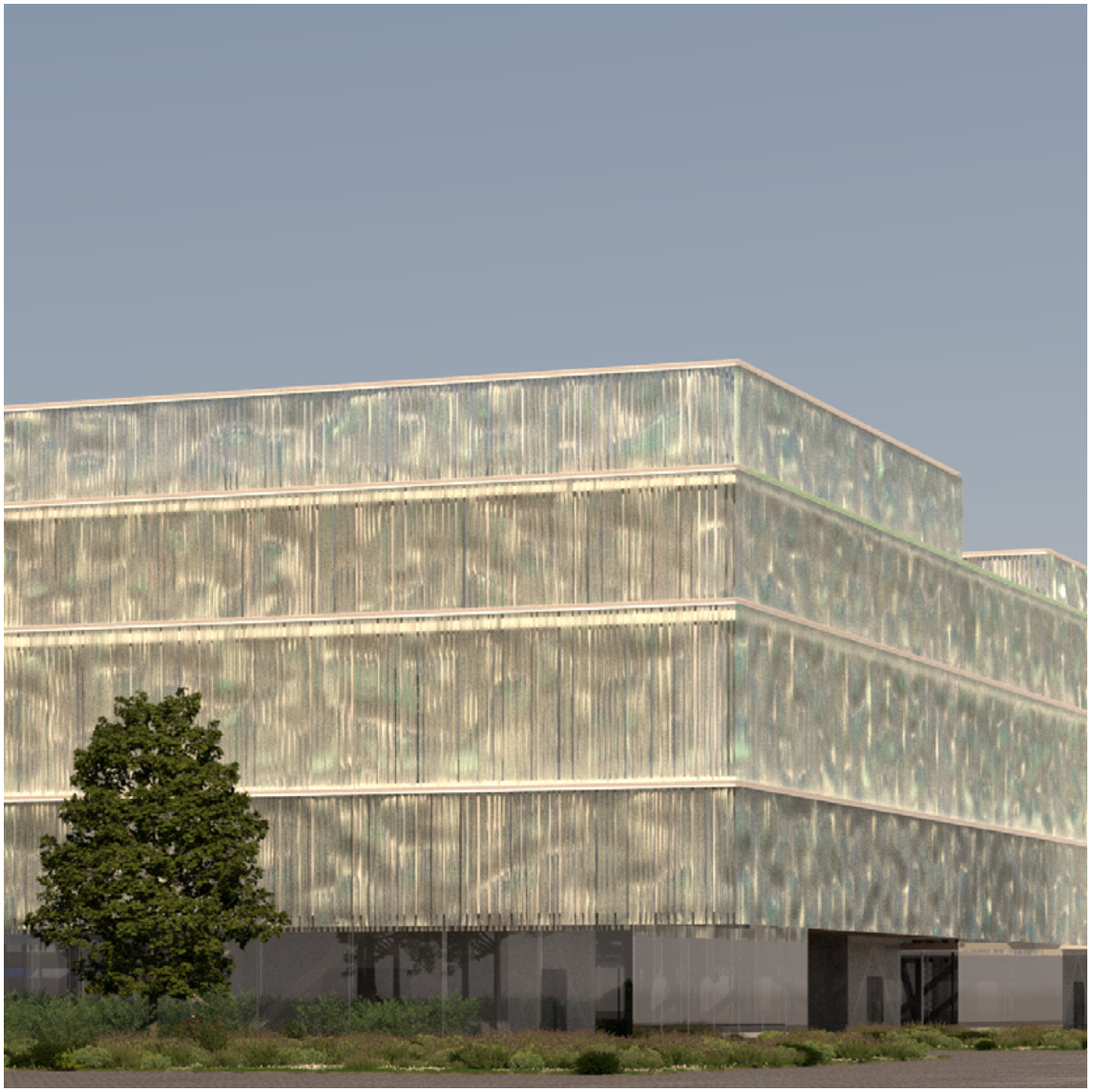
RECYCLED GLASS PANELS

RECYCLED GLASS PANELS



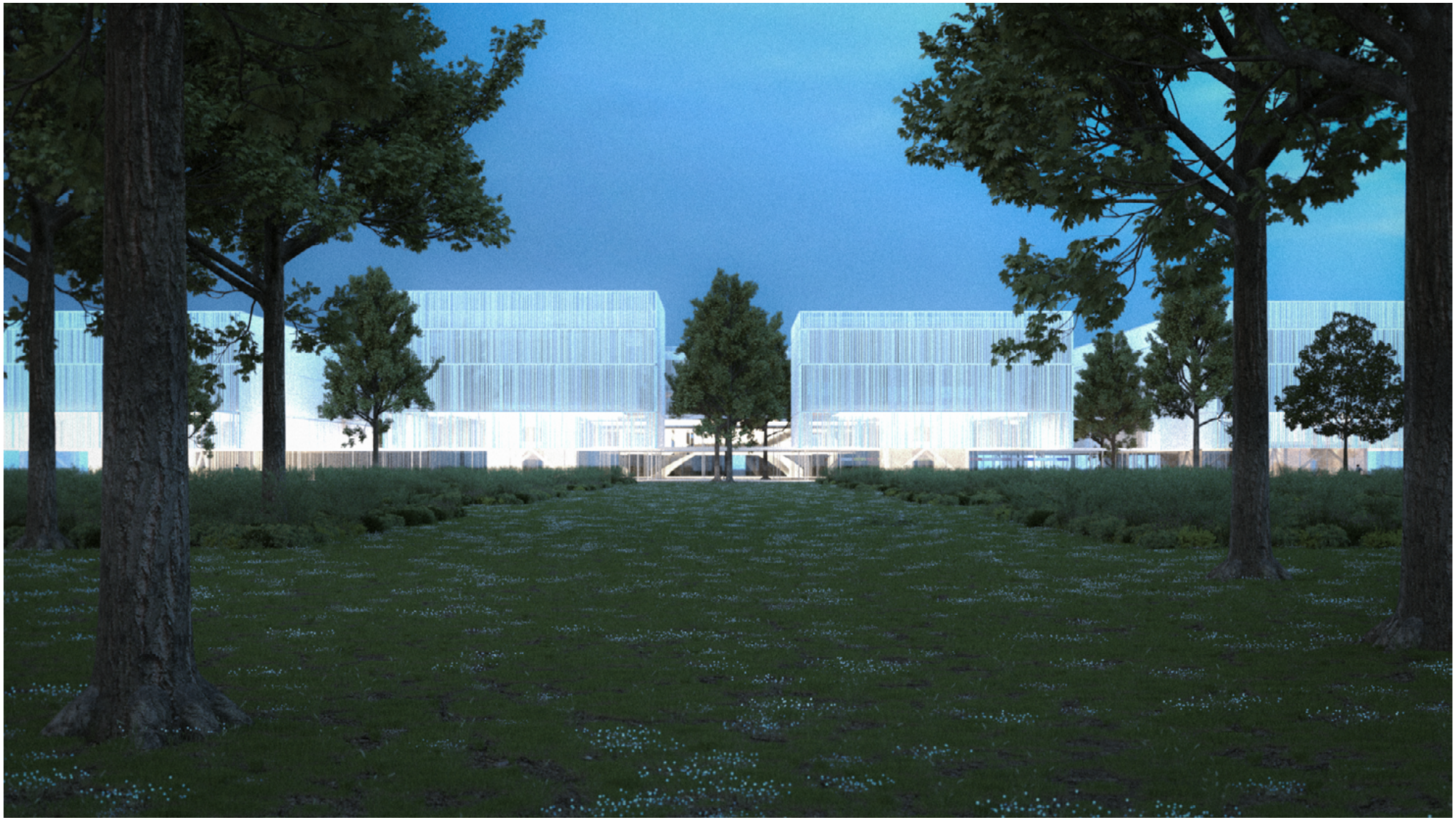
IMPRESSION

IMPRESSION



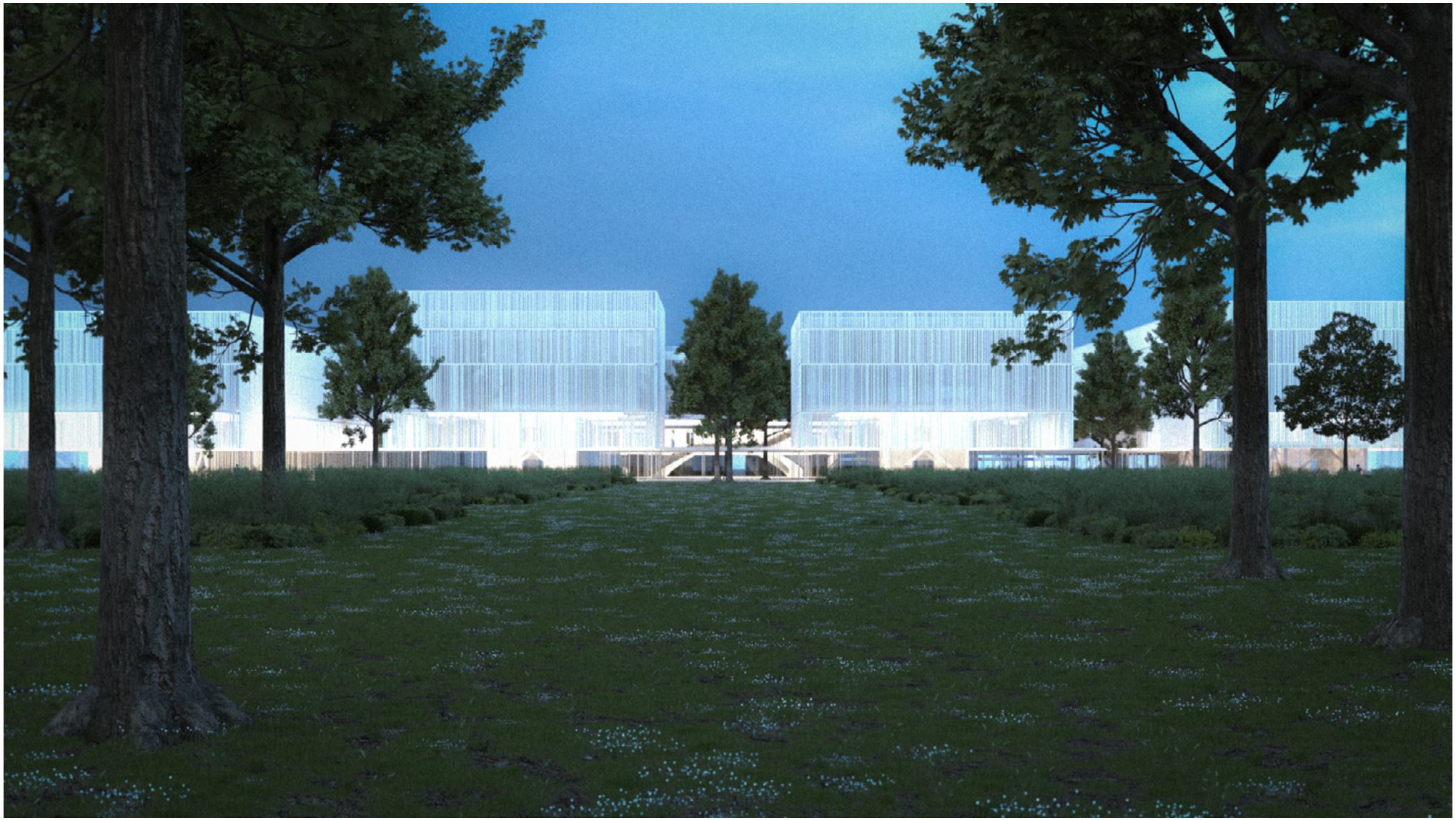
R3_PARK

R3_PARK



R3_PARK

R3_PARK



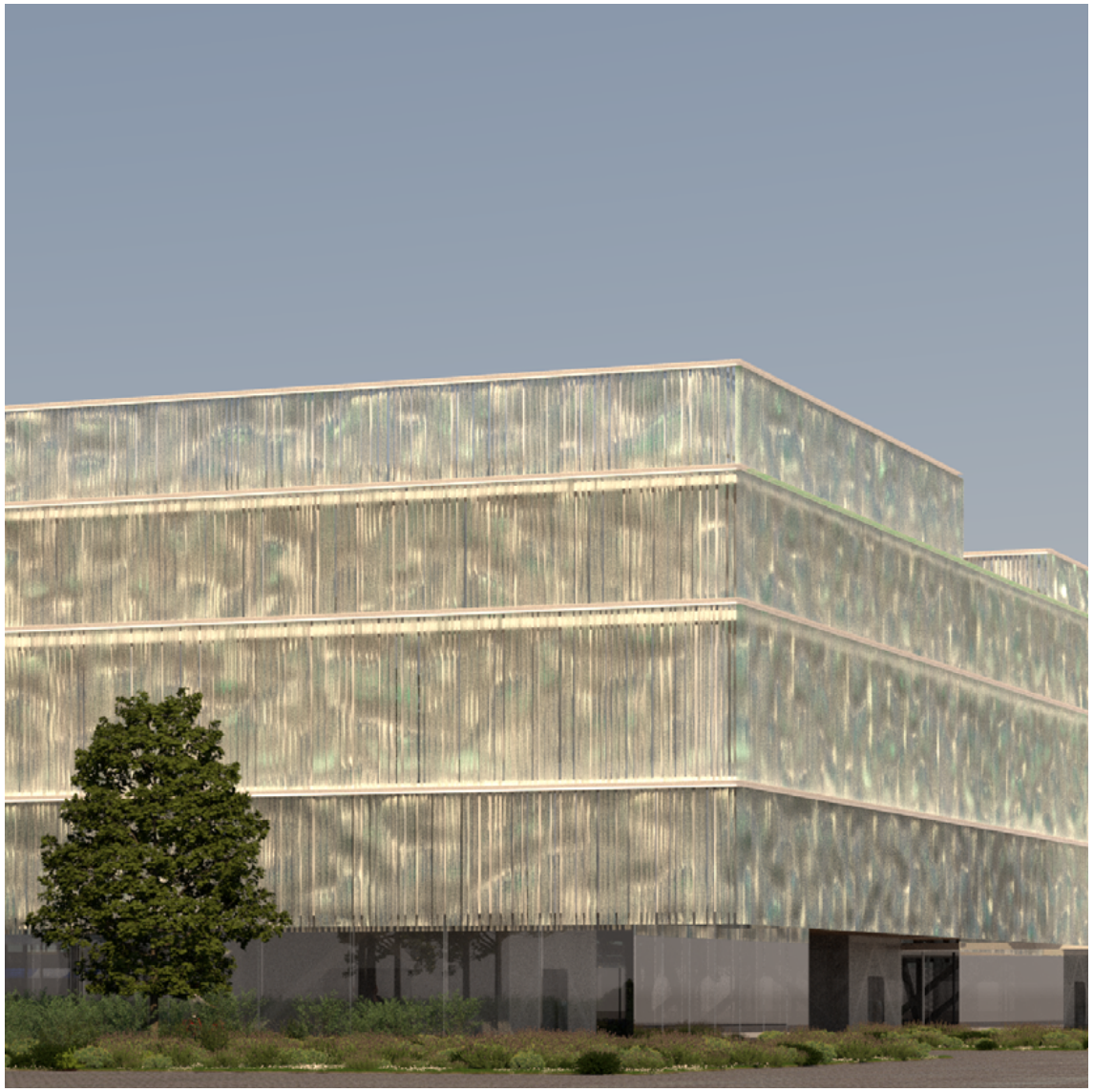
R3_PARK

R2_INTERSECTION

R2_INTERSECTION

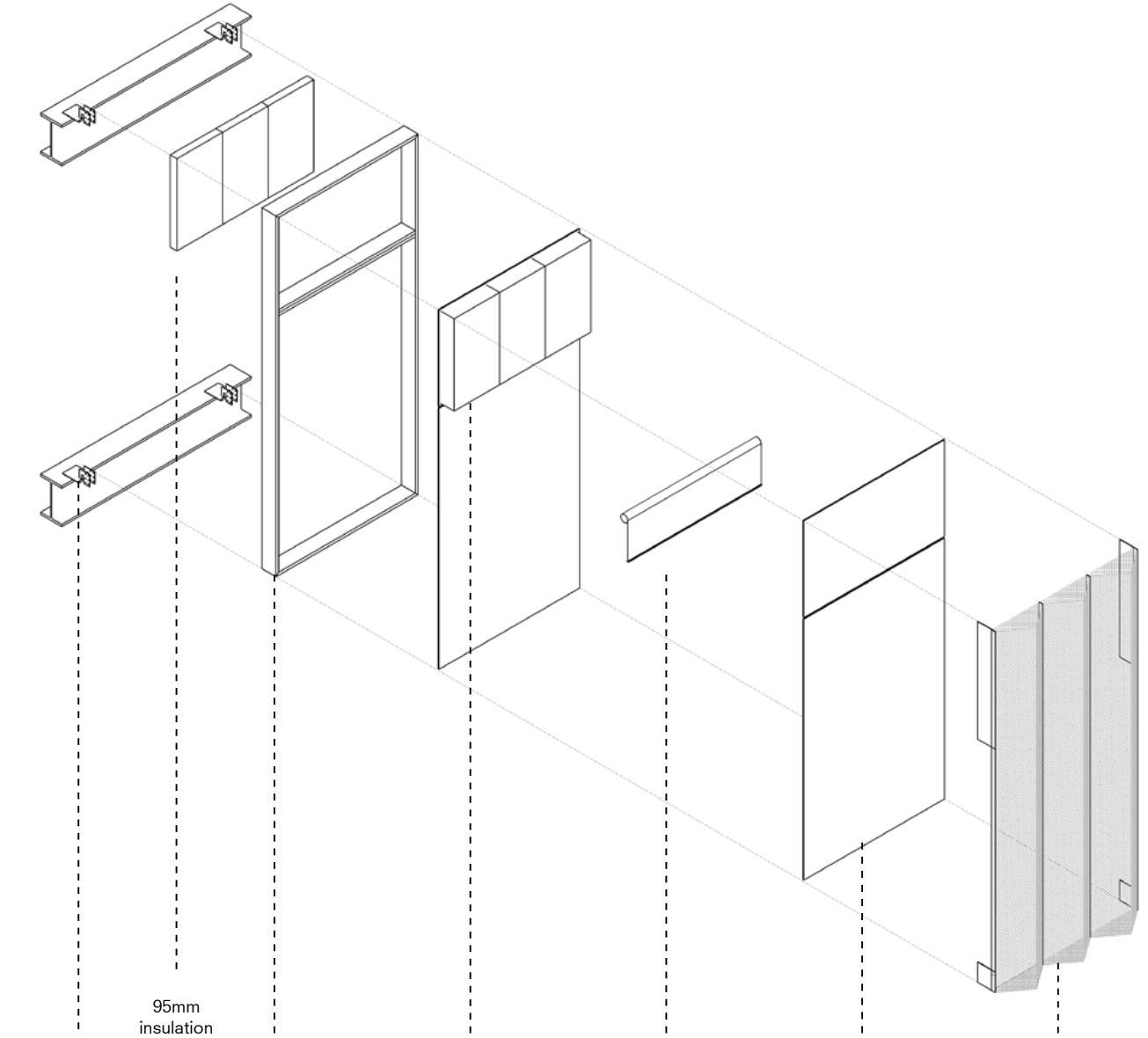
R2_INTERSECTION

IMPRESSION

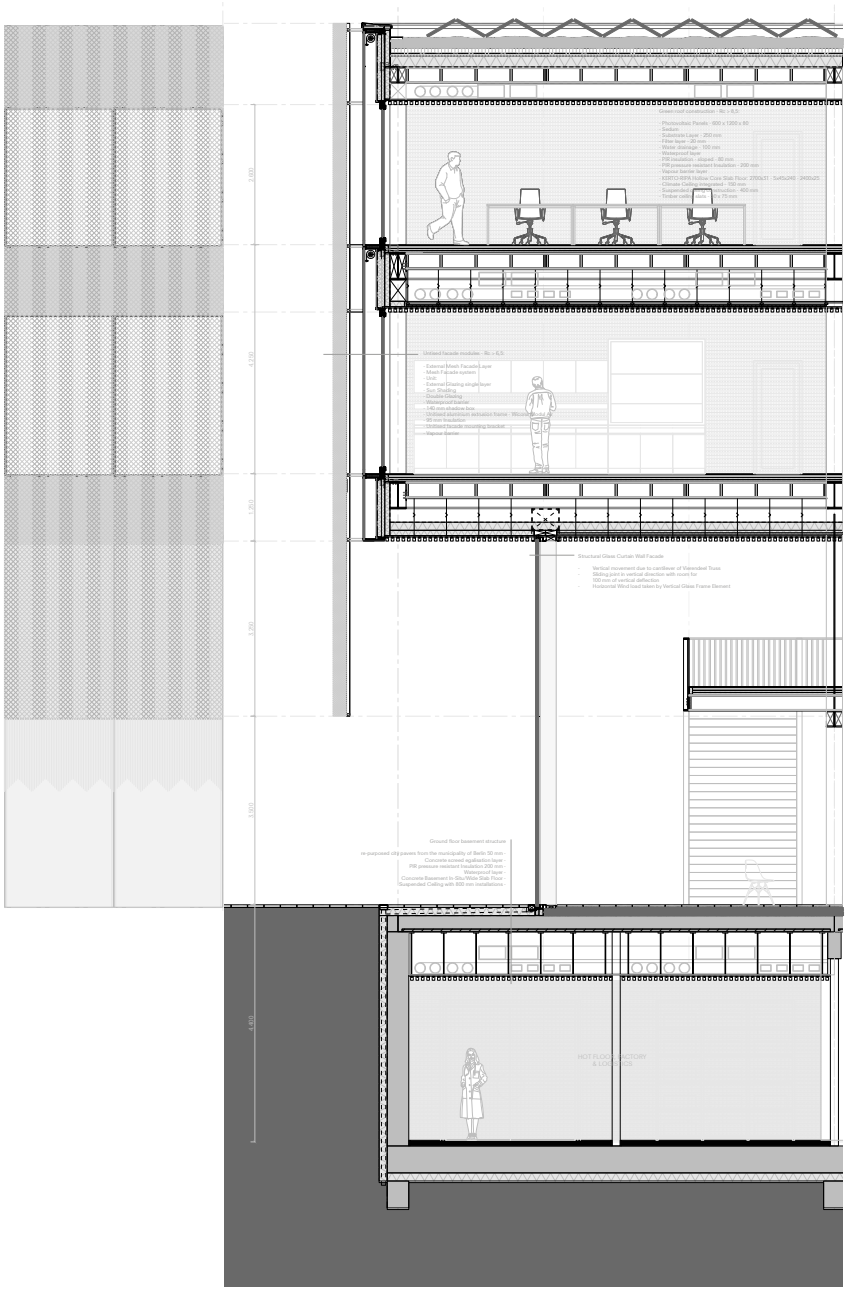


IMPRESSION

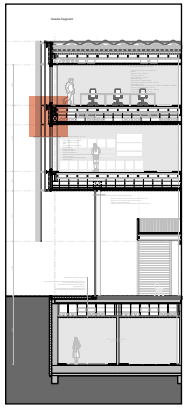
UNITISED FACADE MODULES

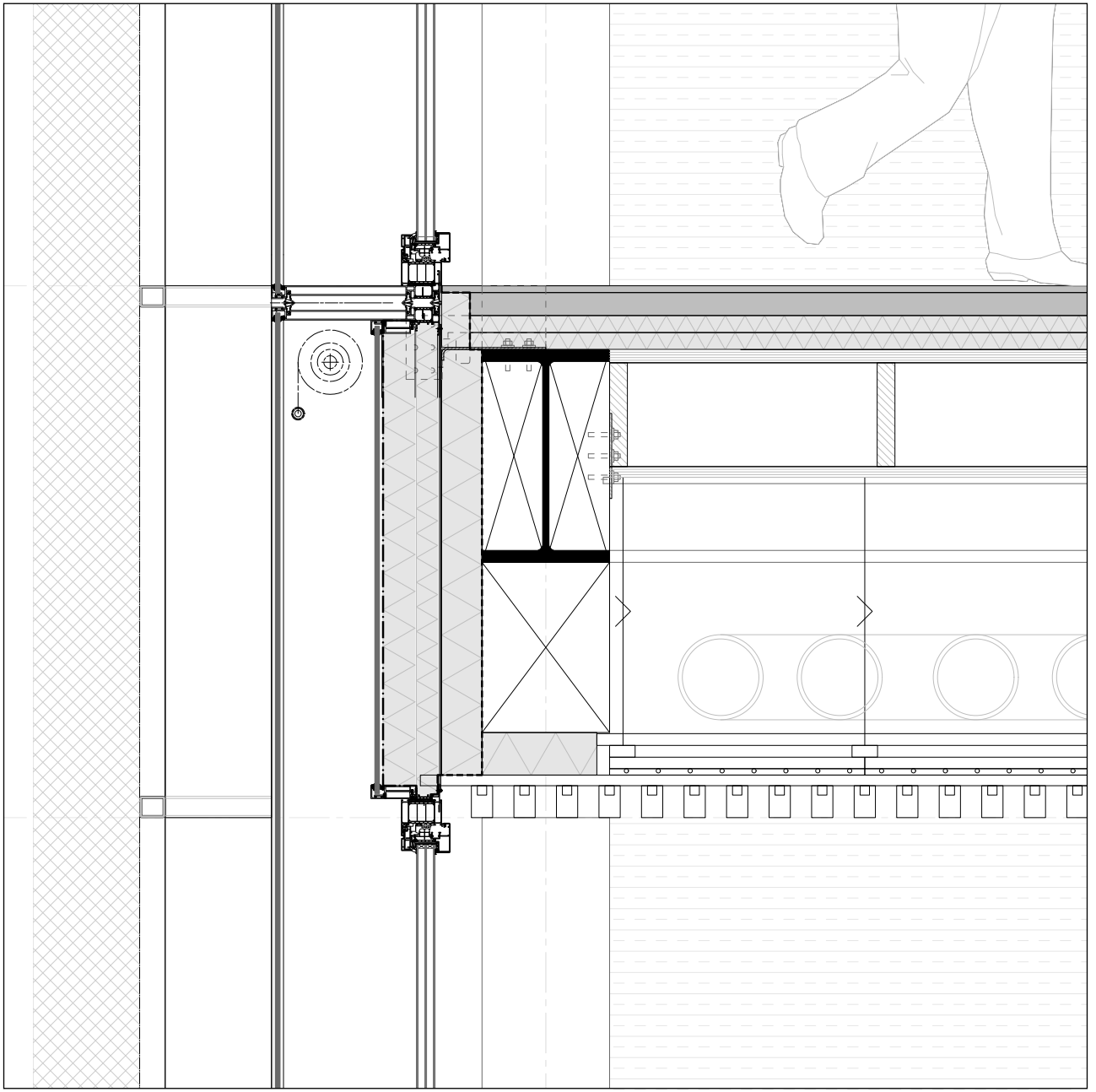


FACADE FRAGMENT

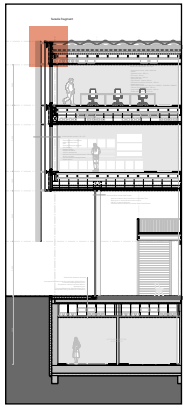


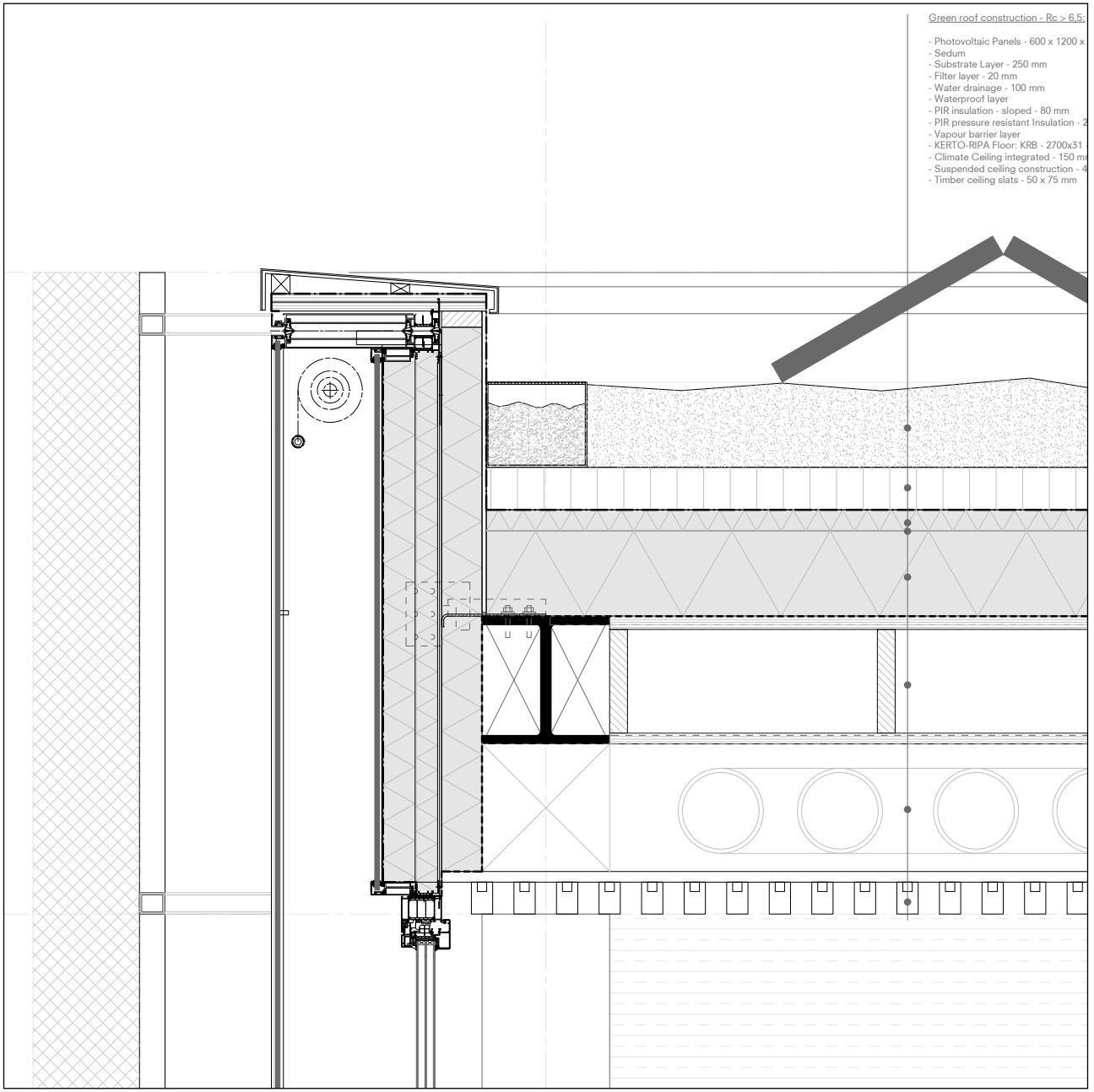
FACADE DETAILS



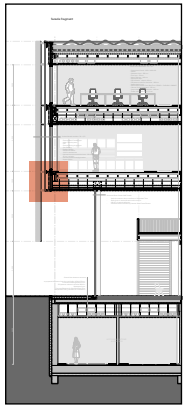


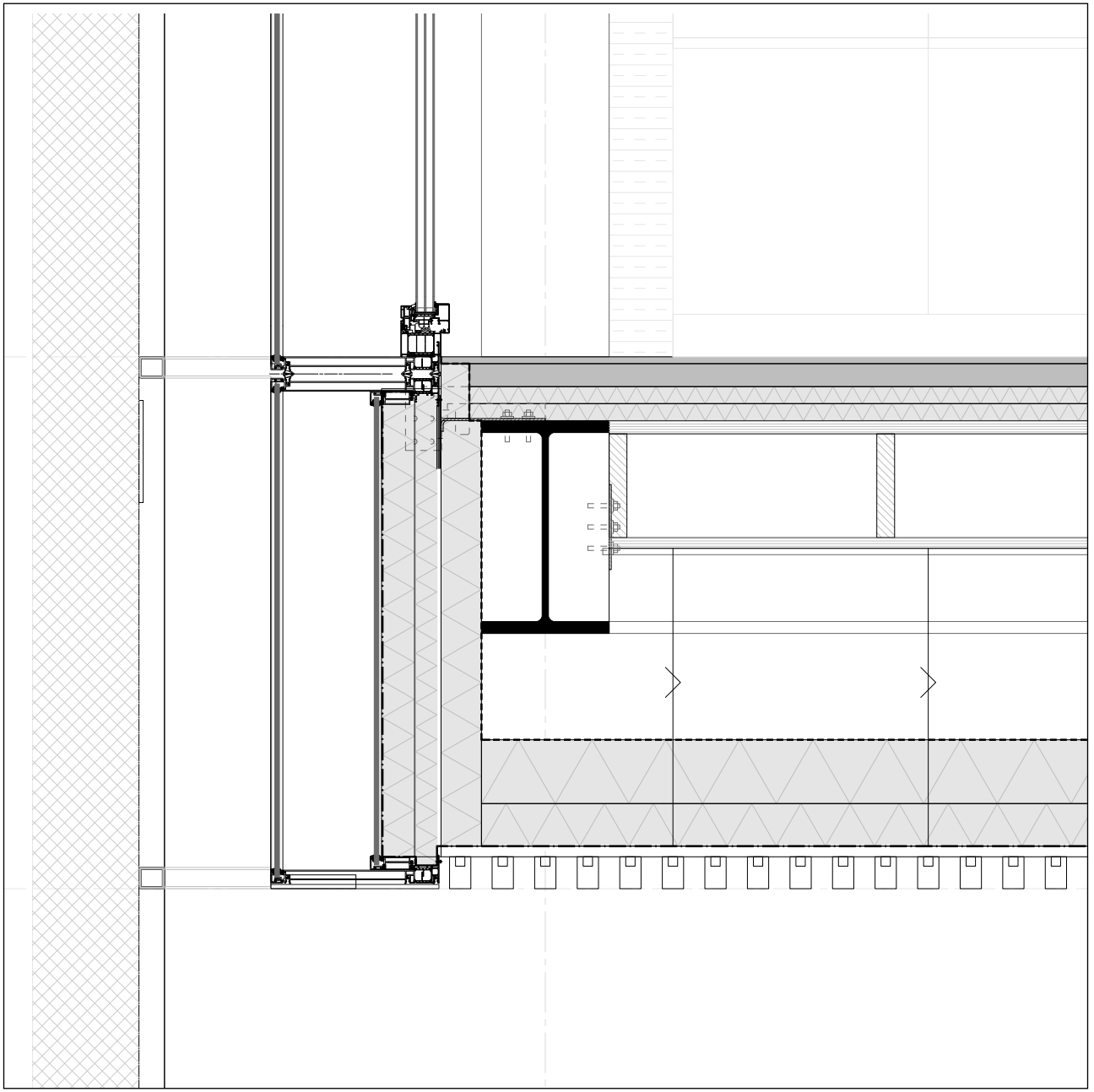
FACADE DETAILS



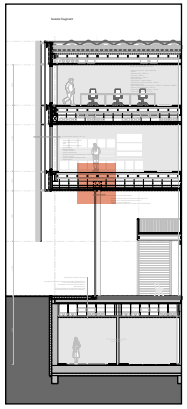


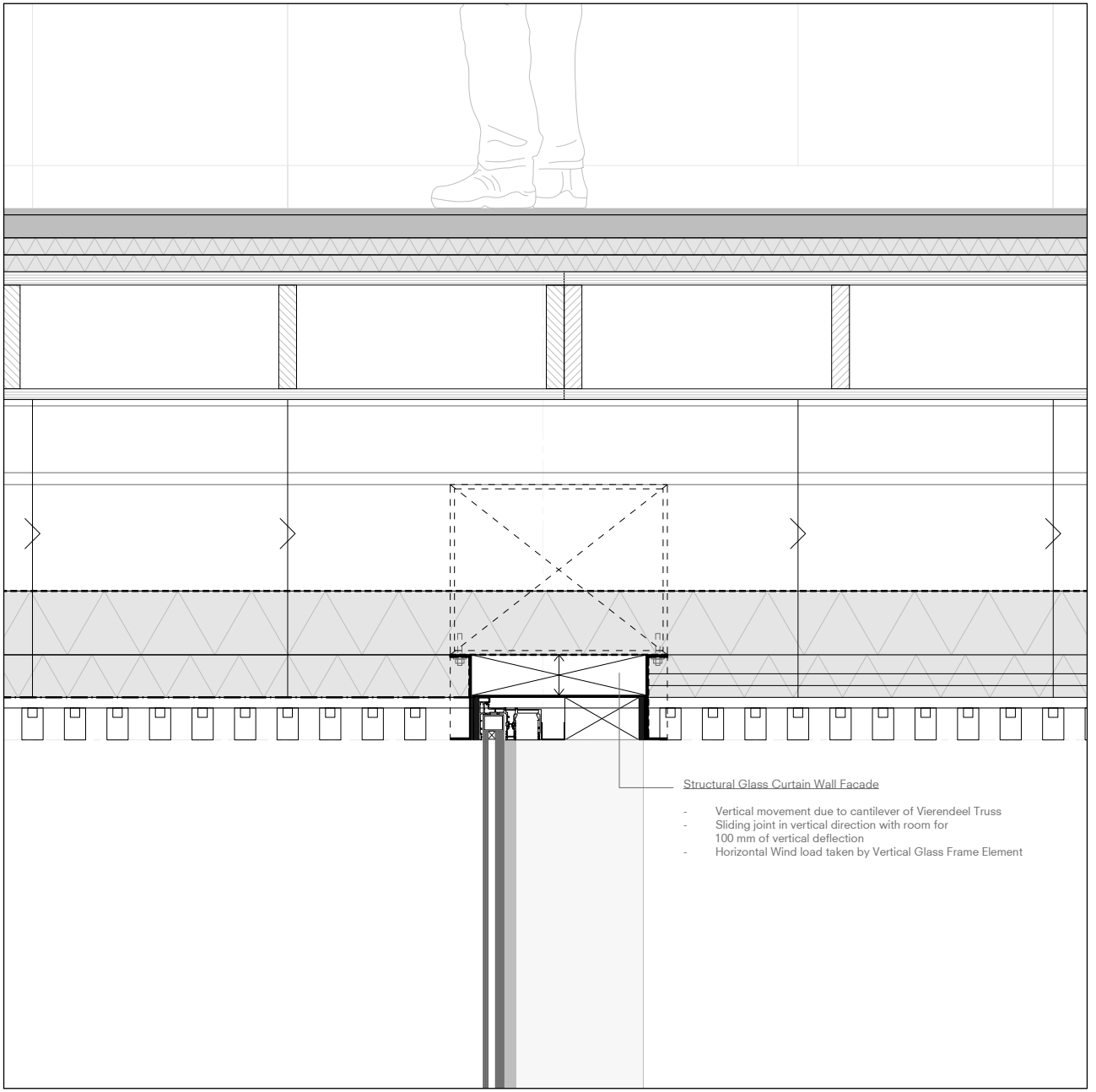
FACADE DETAILS





FACADE DETAILS

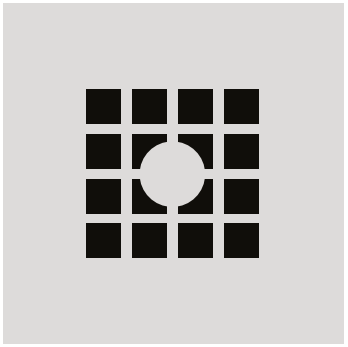




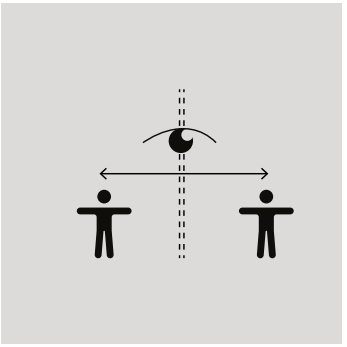
INSIDE - OUTSIDE TRANSITION?

BUILDING - ACCESIBILITY

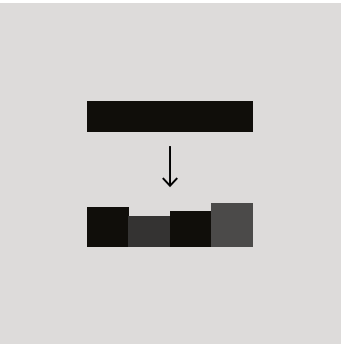
A pattern language: towns, buildings, construction - relevant patterns



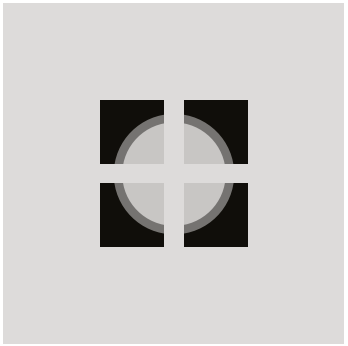
#106 - Positive Outdoor Space



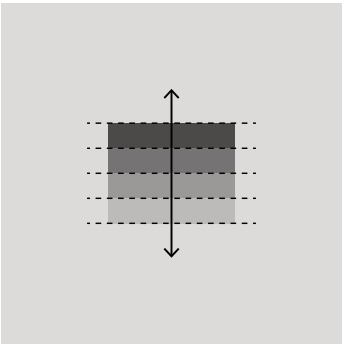
#162 - Street Windows



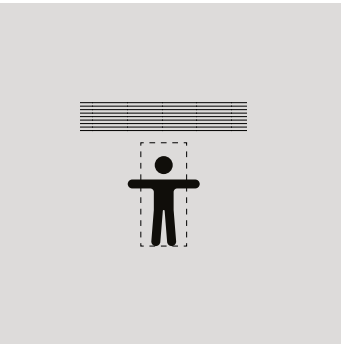
#136 - Building Fronts



#150 - Activity Pockets



#112 - Entrance Transition

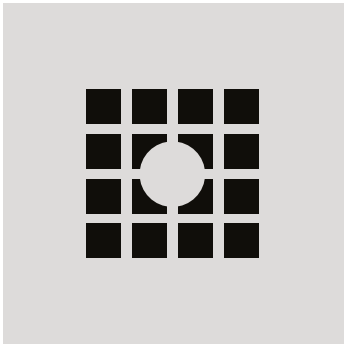


#204 - Human Scale

Alexander, C., Ishikawa, S., Silverstein, M., Jacobson, M., Fiksdahl-King, I., & Angel, S. (1977). A pattern language: towns, buildings, construction (Vol. 1, Issue 5). https://ci.nii.ac.jp/ncid/BA00163982

BUILDING - ACCESIBILITY

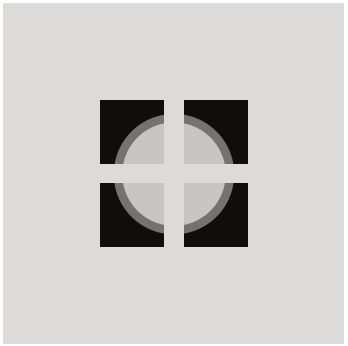
A pattern language: towns, buildings, construction - relevant patterns



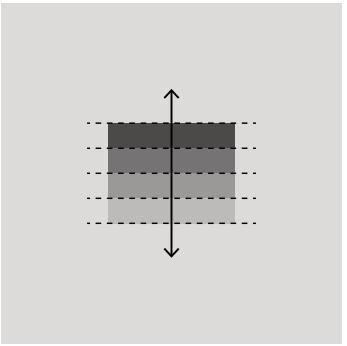
#106 - Positive Outdoor Space

#162 - Street Windows

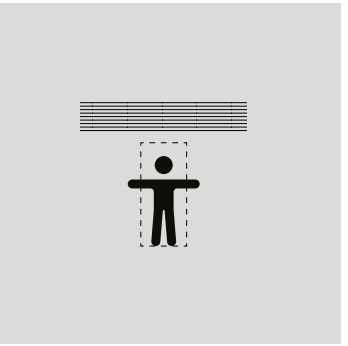
#136 - Building Fronts



#150 - Activity Pockets



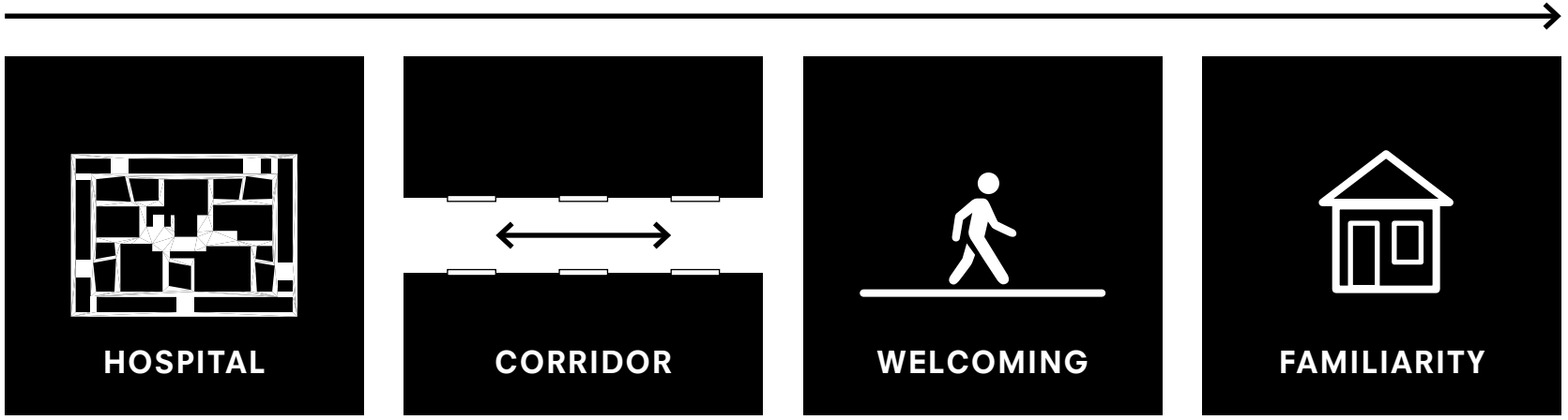
#112 - Entrance Transition



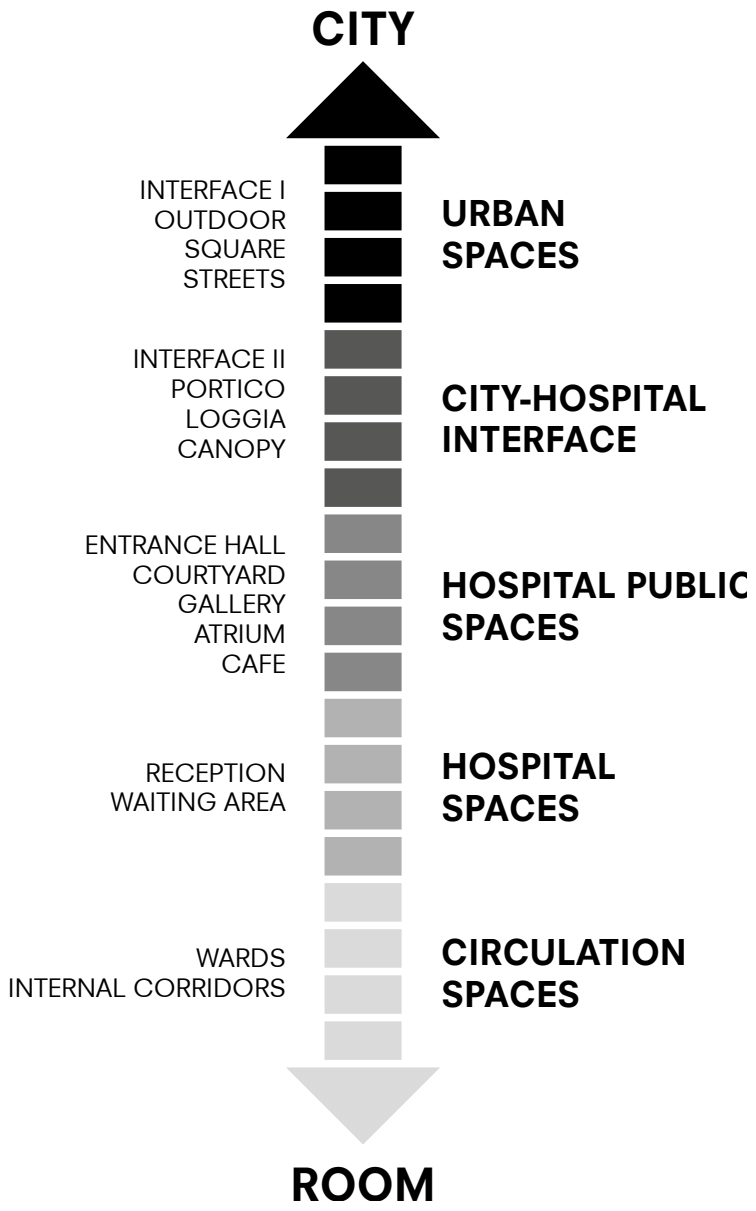
#204 - Human Scale

Alexander, C., Ishikawa, S., Silverstein, M., Jacobson, M., Fiksdahl-King, I., & Angel, S. (1977). A pattern language: towns, buildings, construction (Vol. 1, Issue 5). https://ci.nii.ac.jp/ncid/BA00163982

REDEFINING PUBLIC SPACE

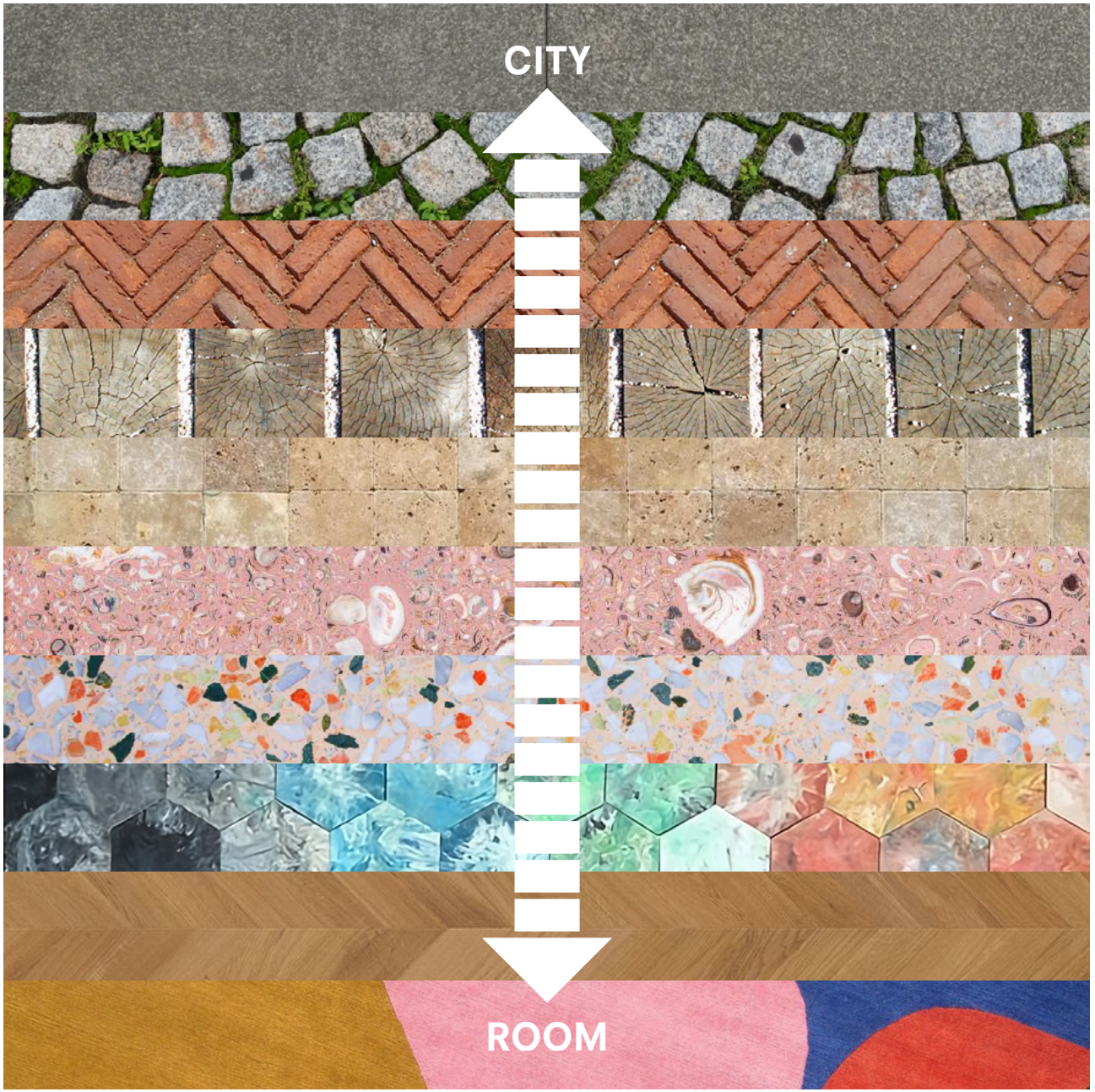


PUBLIC SPACE AS TRANSITION SPACE



DESIGNING PUBLIC SPACES IN HOSPITALS - NICOLETTA SETOLA, SABRINA BORGIANNI (2016)

NOTION OF FAMILIARITY



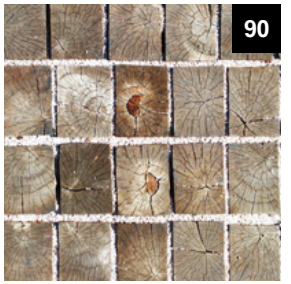
MATERIAL REPRESENTATION

MATERIAL INDEX

“MATERIAL ATLAS”

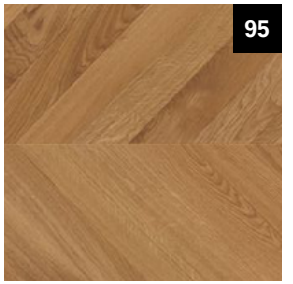
Plattenbau slabs

Granite paving



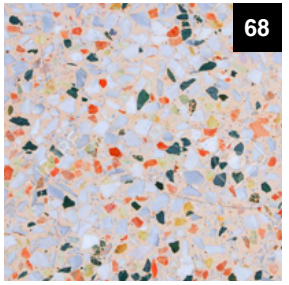
Reclaimed timber paving

Sandstone

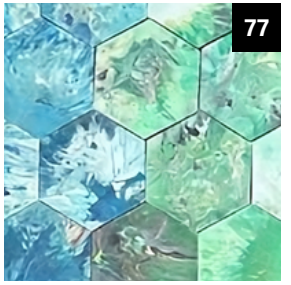


Upcycled timber

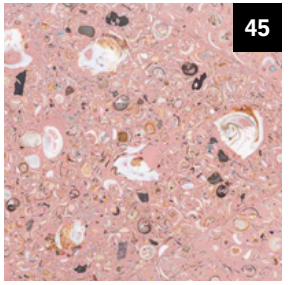
Re-used brick paving



Recycled Glass Terrazo



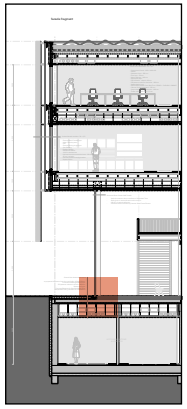
Upcycled plastic tiles

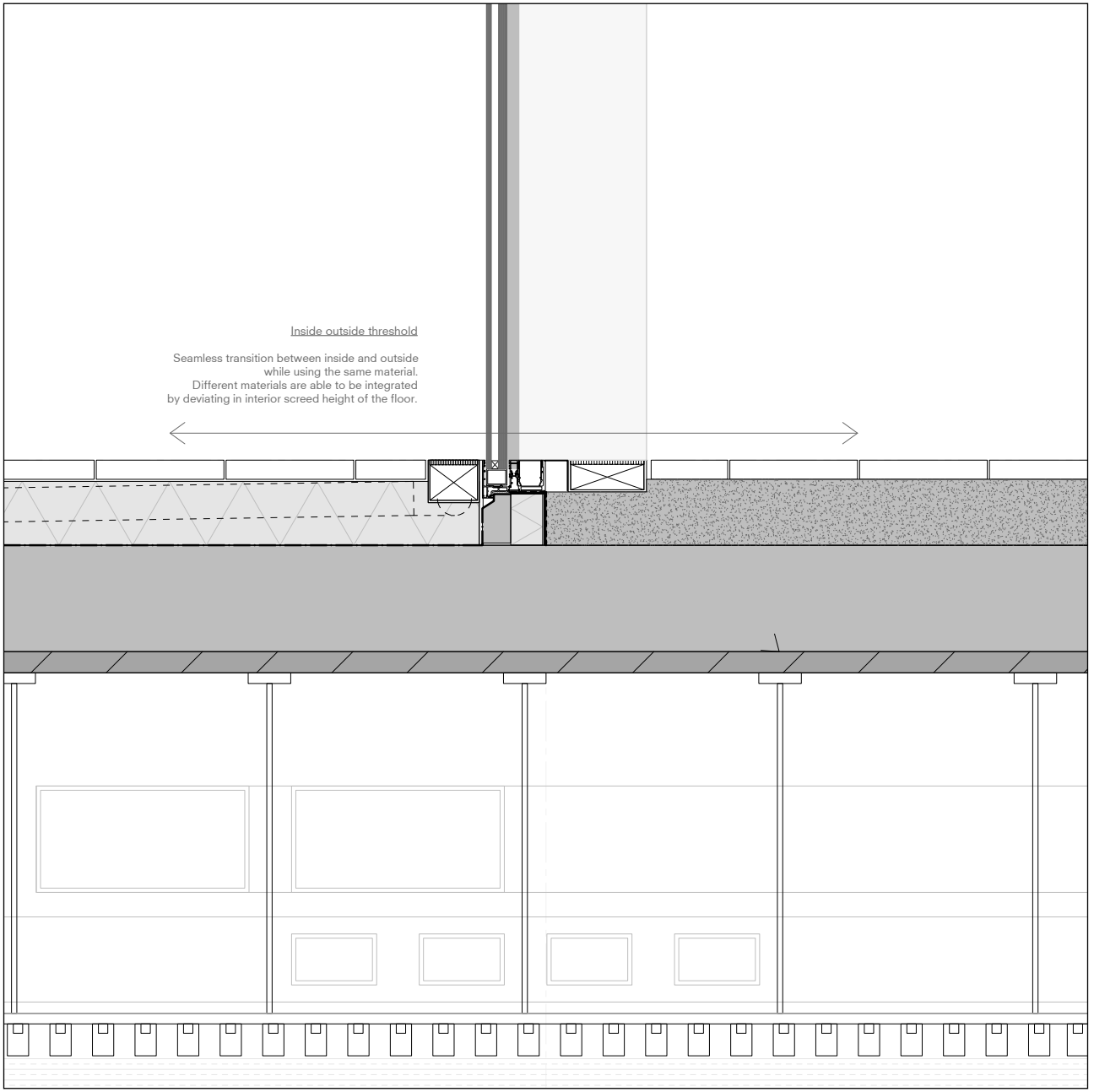


Shell Terrazzo

Flax Carpet

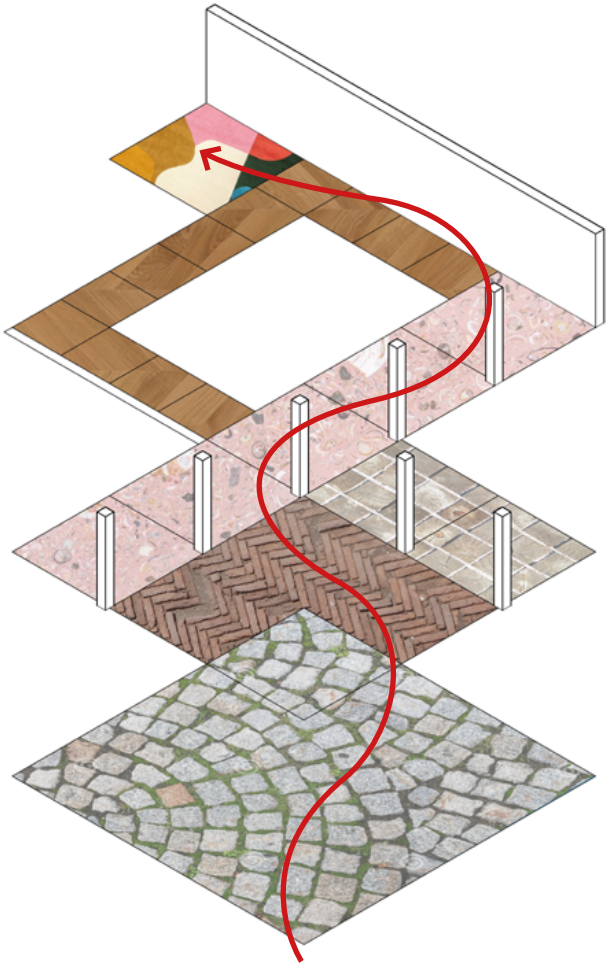
FACADE DETAILS





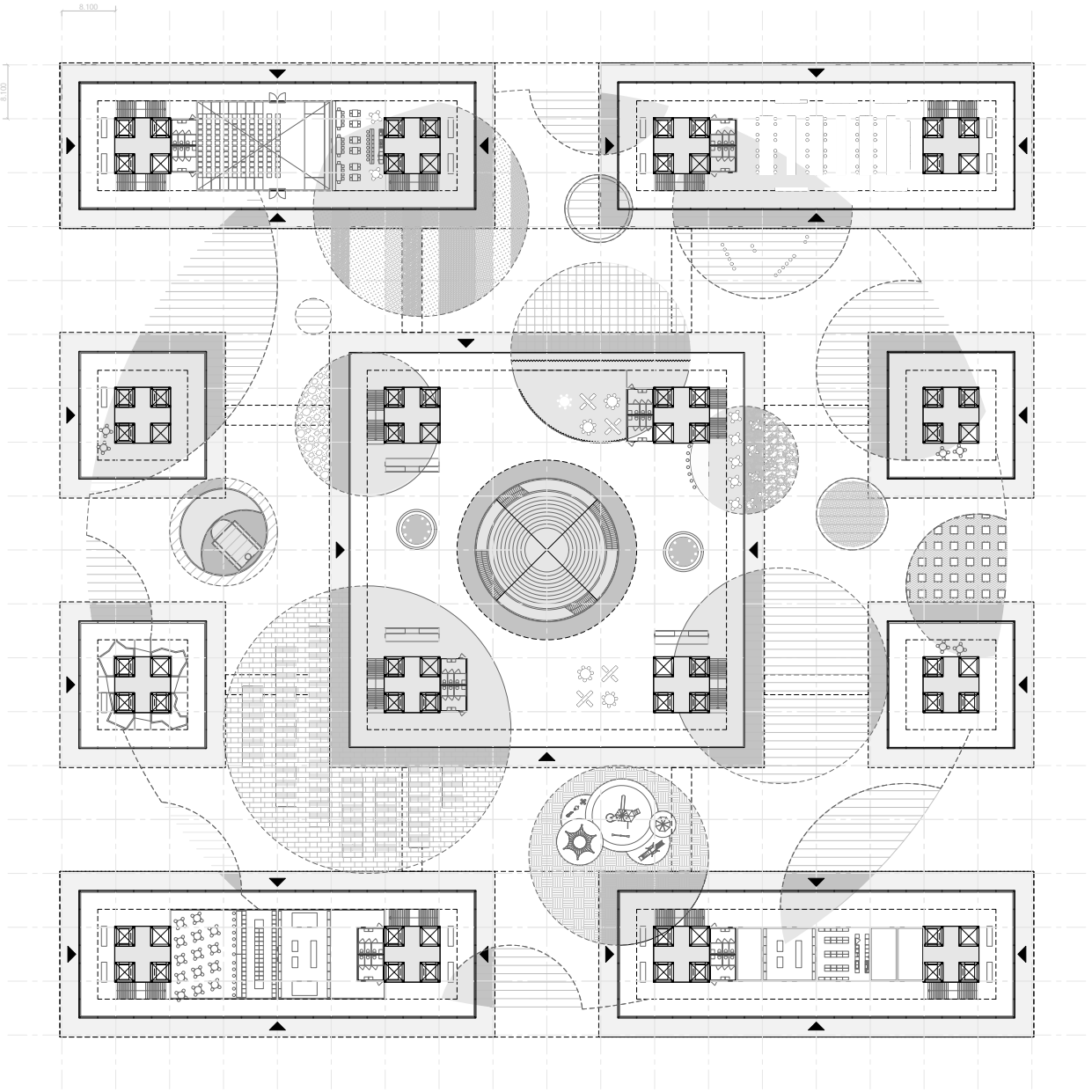
MATERIALISED KEY SPACE

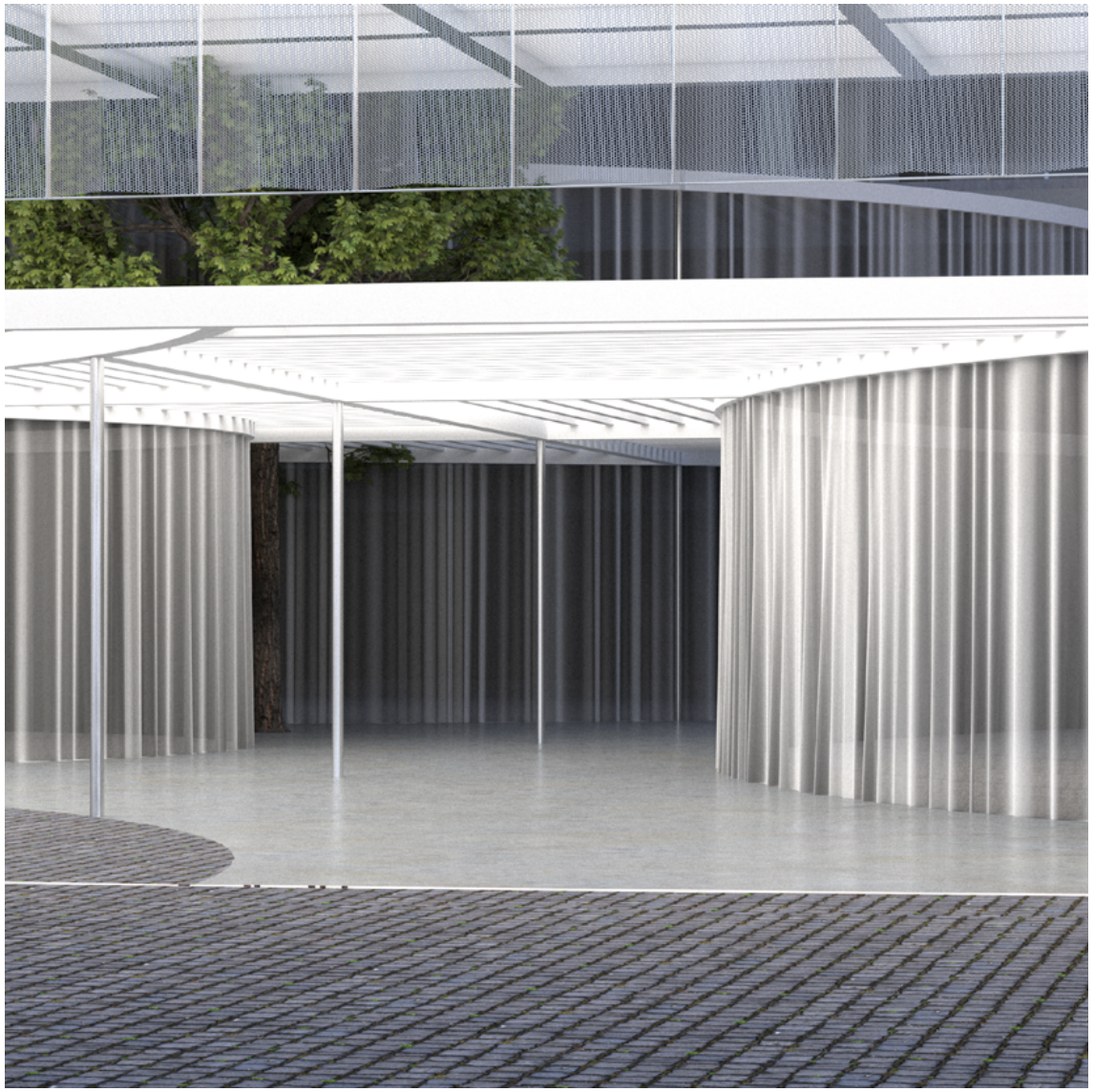
“ROOM”



“CITY”

MATERIALISED KEY SPACE





SANAA - HIROSHI SENJU MUSEUM

I. INTRODUCTION

II. RESEARCH & DESIGN BRIEF

III. CONCEPT

IV. IMPLEMENTATION

V. CONCLUSION

MAIN RESEARCH QUESTION

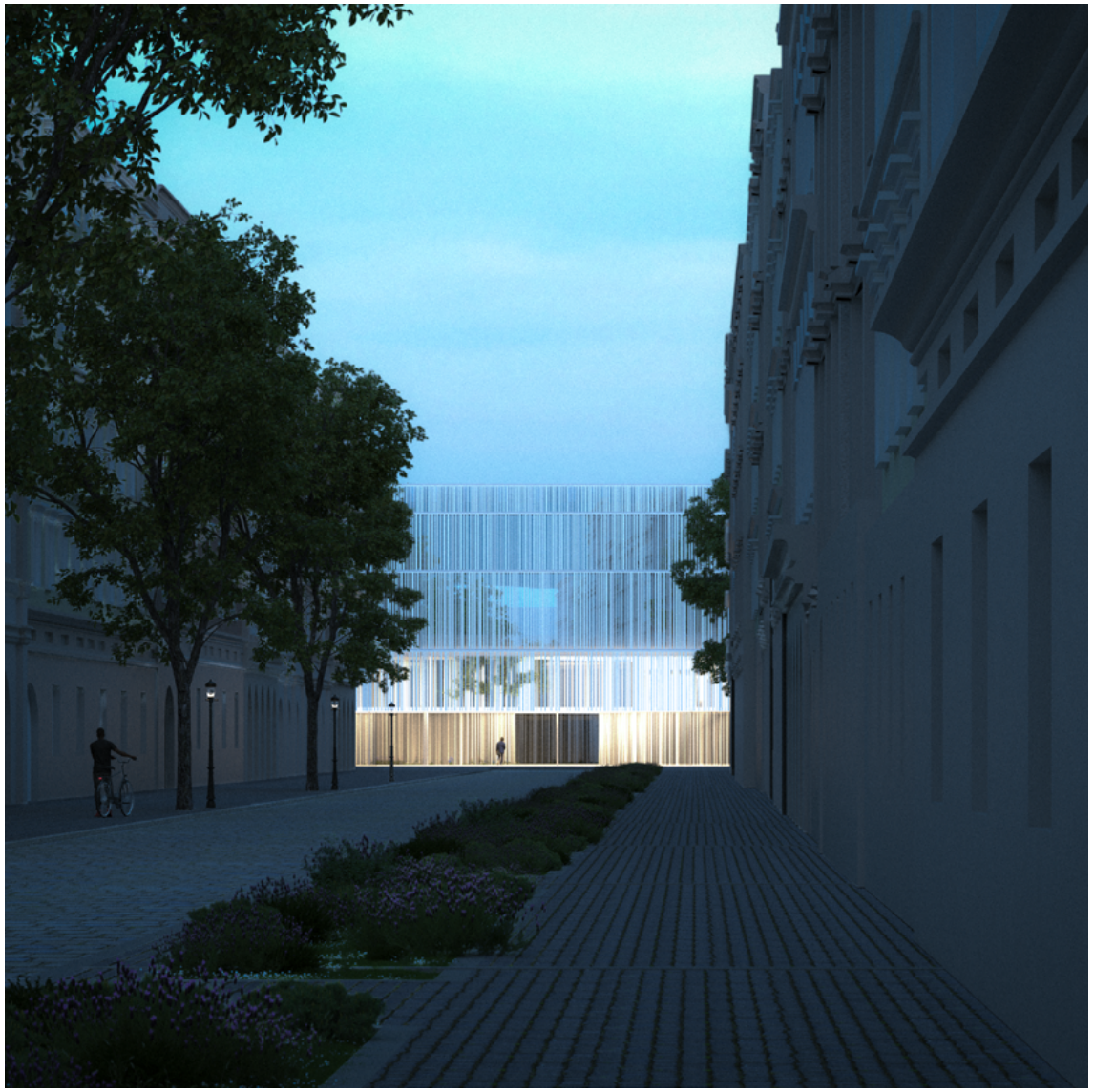
“HOW WILL HUMAN BODY AUGMENTATION REFLECT CHANGE IN THE HOSPITAL TYPOLOGY OF THE FUTURE?”

1 - “How will augmentation change the hospital process for the human body, and thus the building program?”
2 - “How can we create a living hospital structure, that can grow, upgrade, and get augmented through time?”

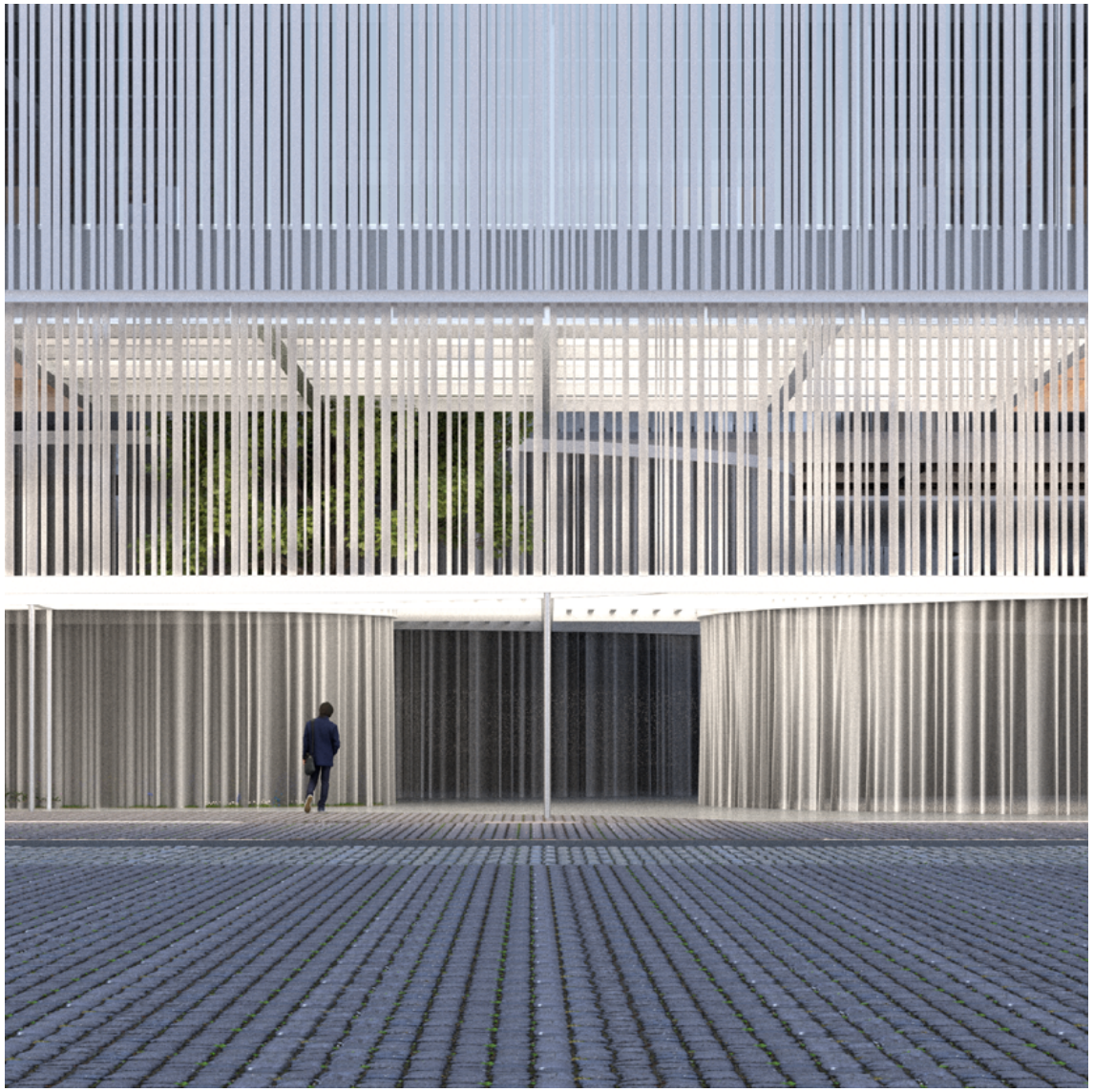
R6_AERIAL

R2_INTERSECTION

PART OF THE CITY



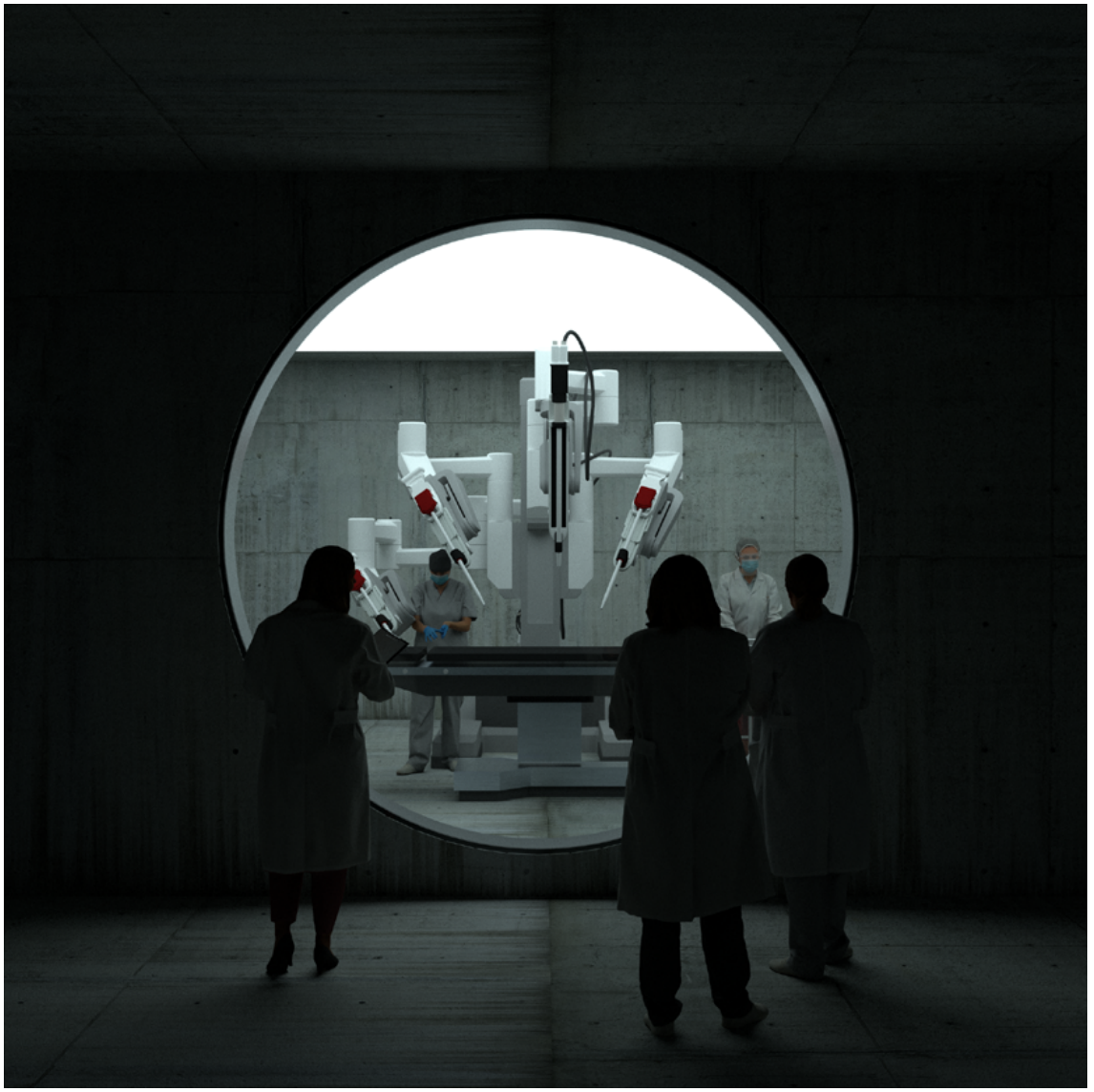
ACCESIBLE



ACCESIBLE

ACCESIBLE

SPECIALISED



XL - L - M - S - XS

BUILDING - IMPLICATIONS

SPECIALISED

FLEXIBLE

PART OF THE CITY

TRANSPARENT

ACCESSIBLE

MATERIALISATION

“THE HUMAN BODY SHOP”

PART OF THE CITY

L - STRUCTURE

FLEXIBLE

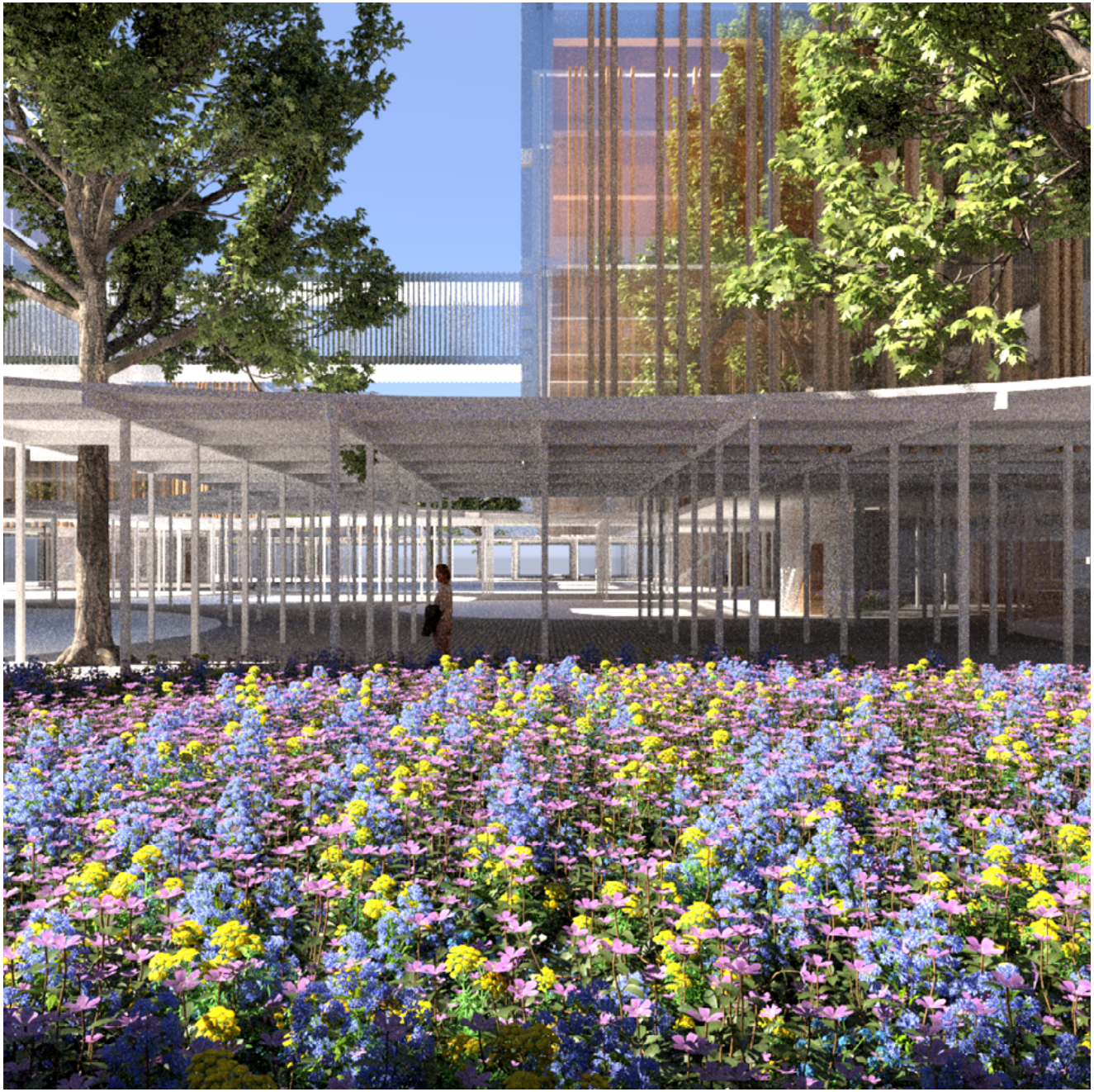
M - PROGRAM

SPECIALISED

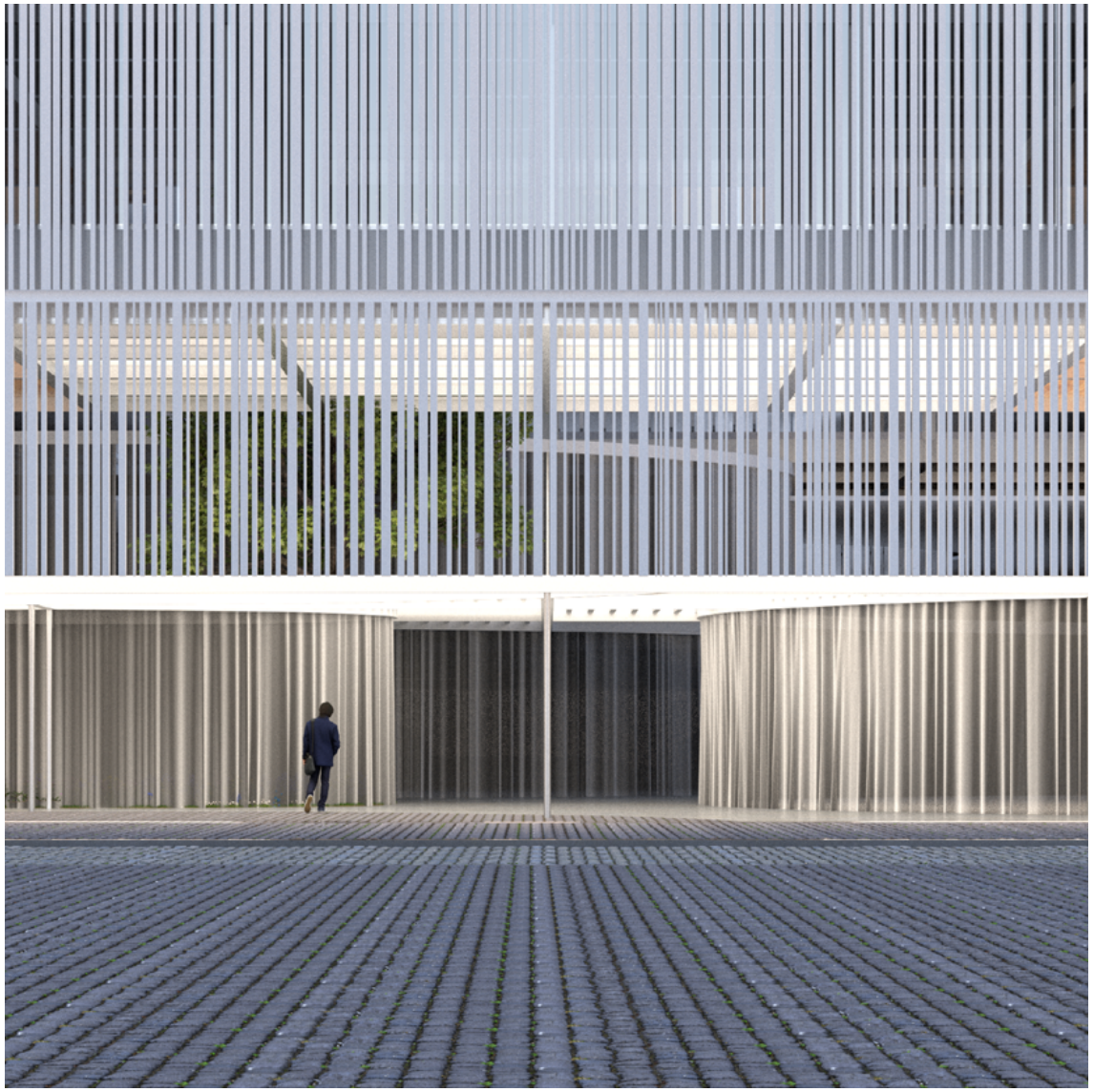
S - TRANSITIONS

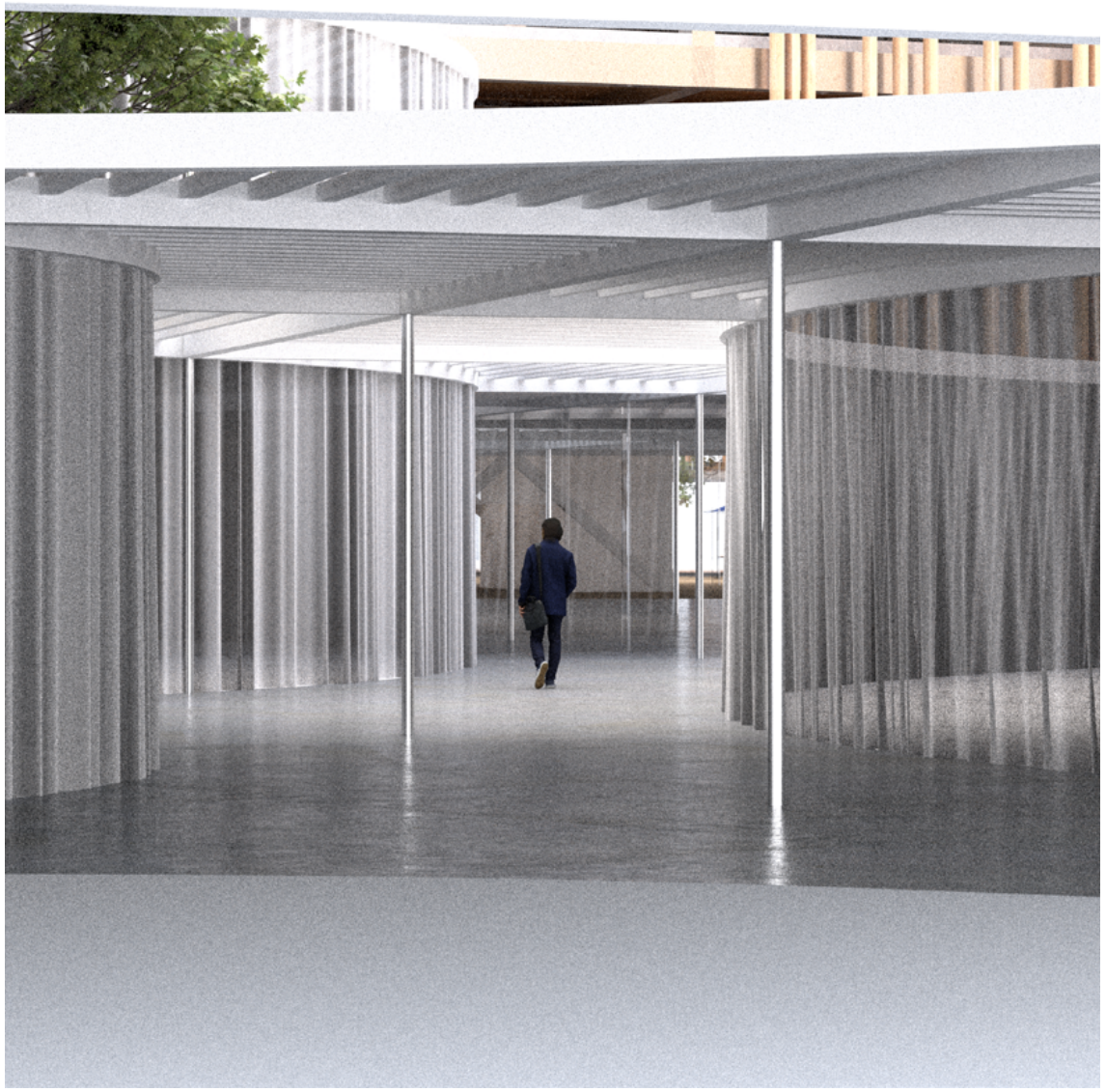
ACCESIBLE

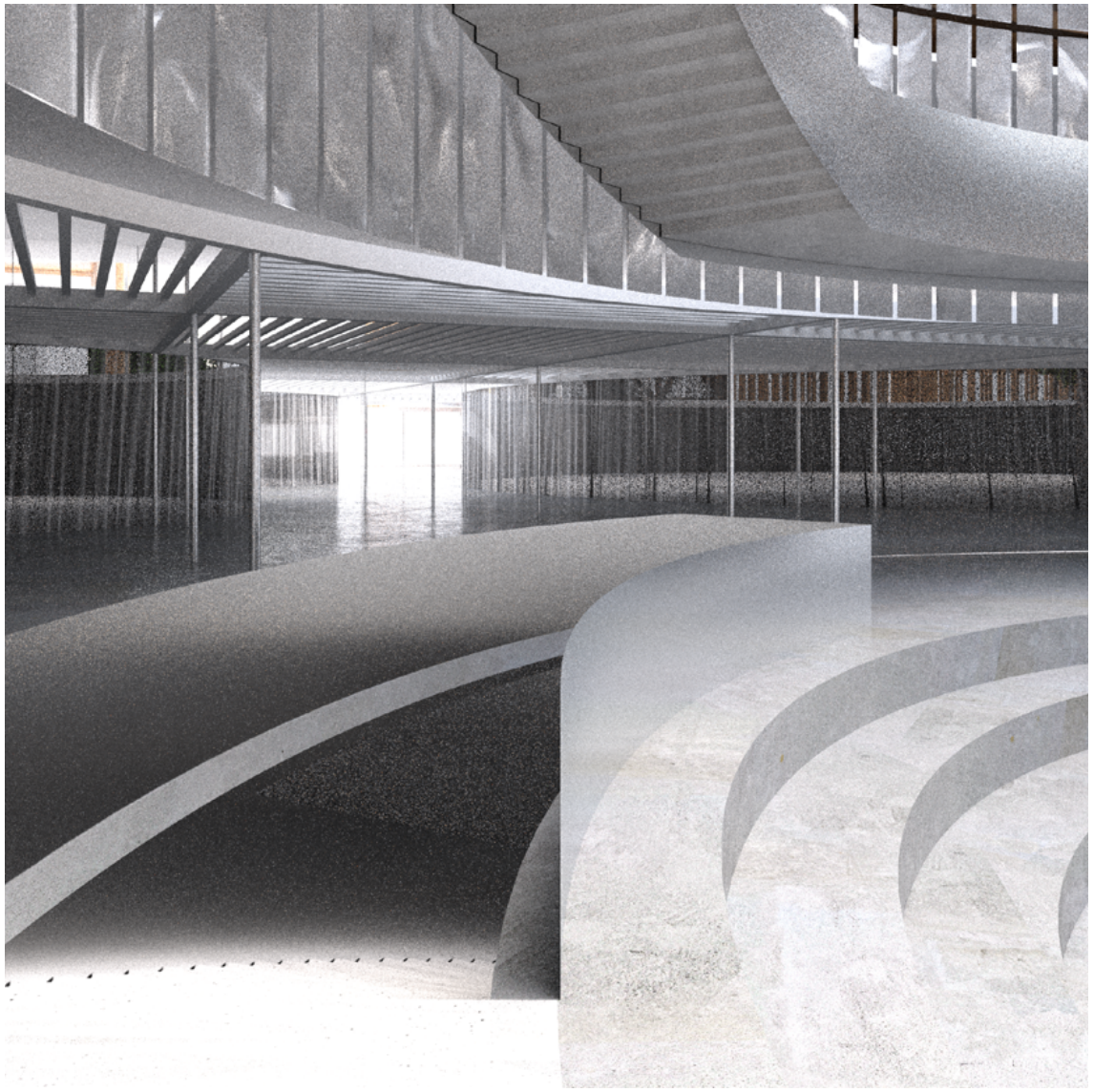
MODULAR

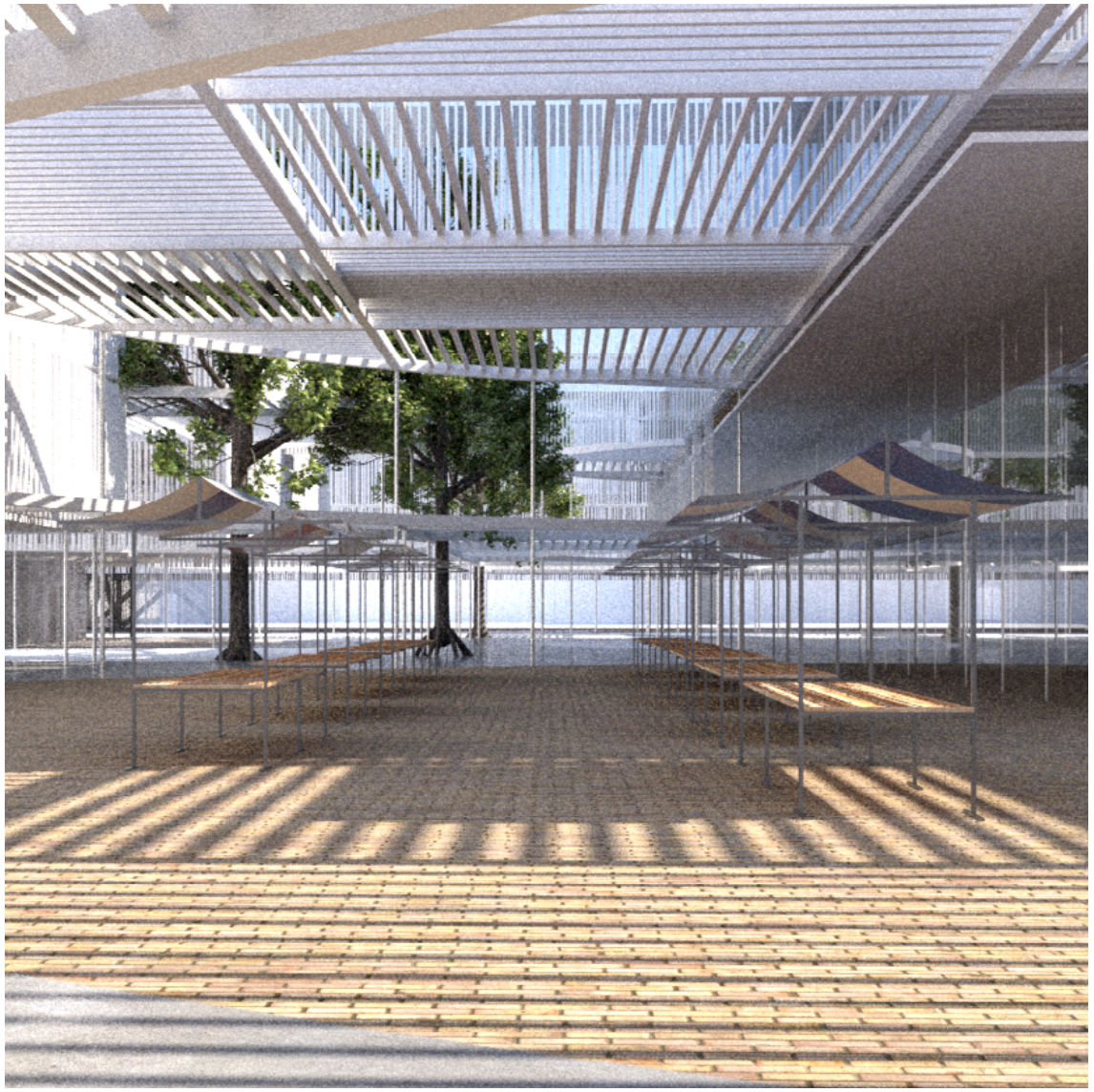


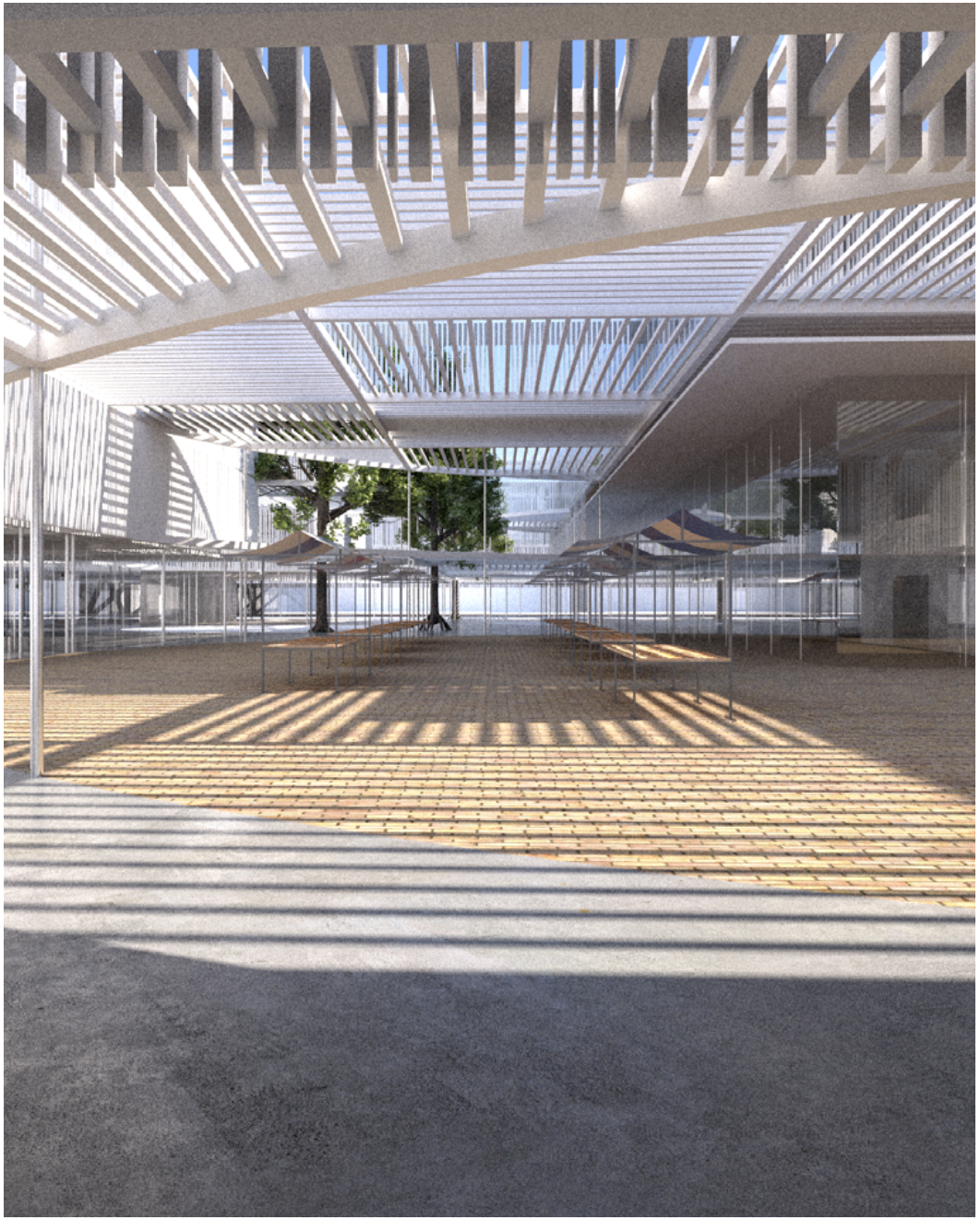
R4_ATRIUM

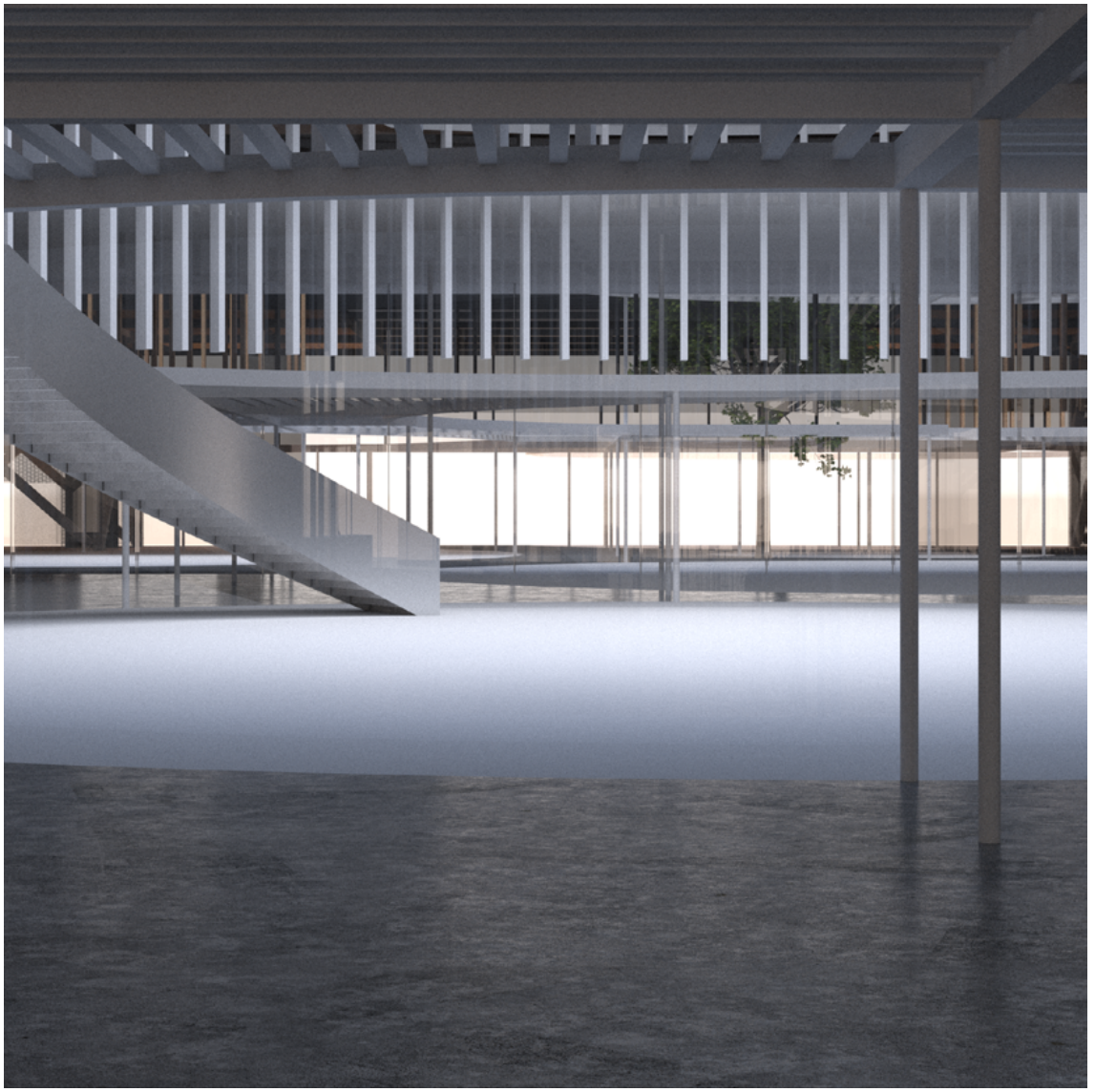




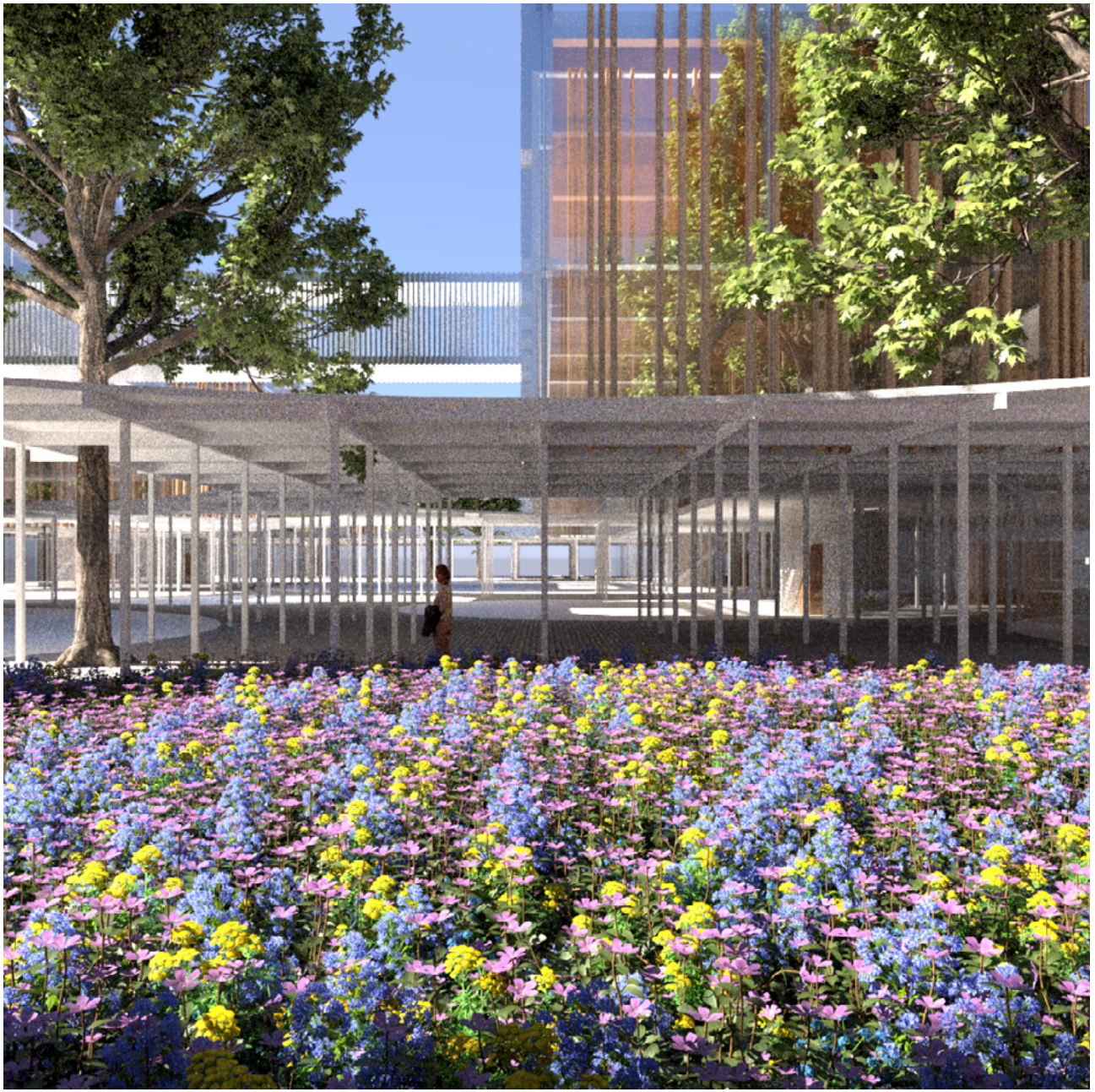
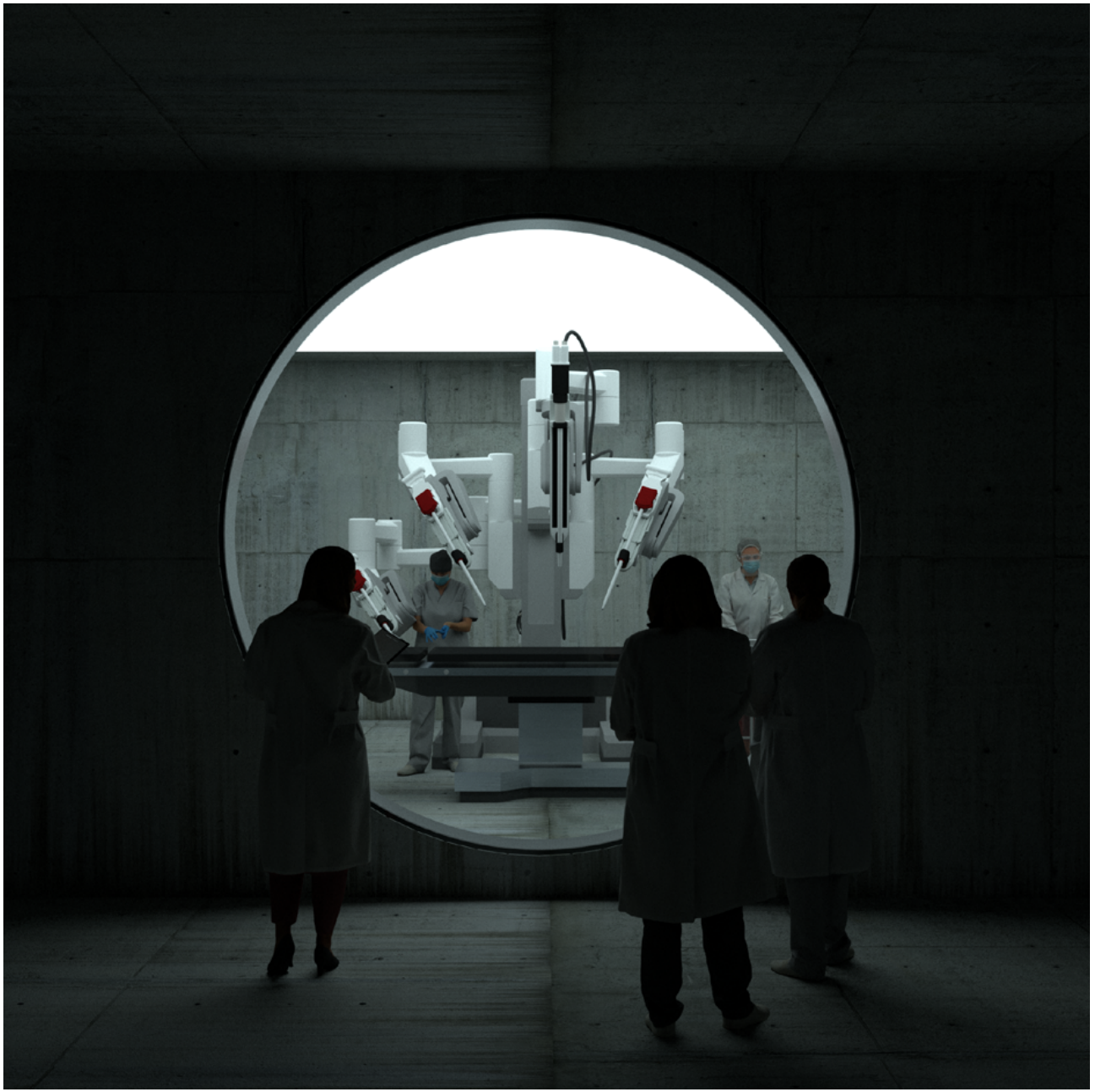








IMPRESSION

IMPRESSION

IMPRESSION