



# COMPLEX PROJECTS "UNIVER-CITY"

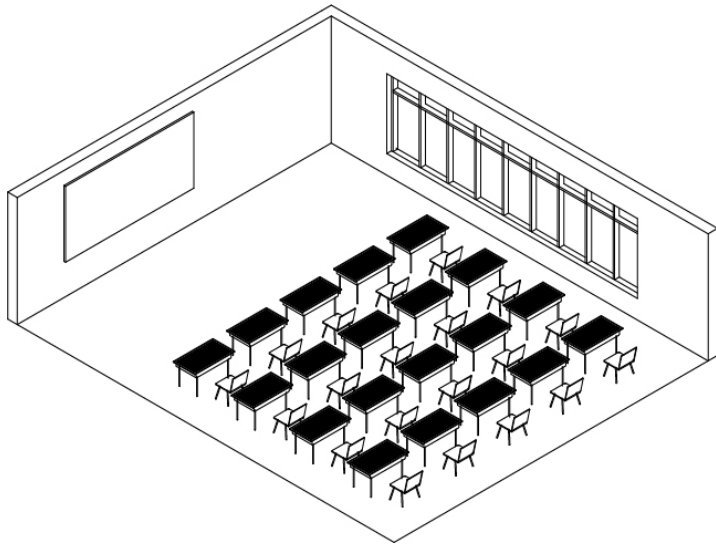
Presentation P5.0

Zhengyu Wu

2/July/2025

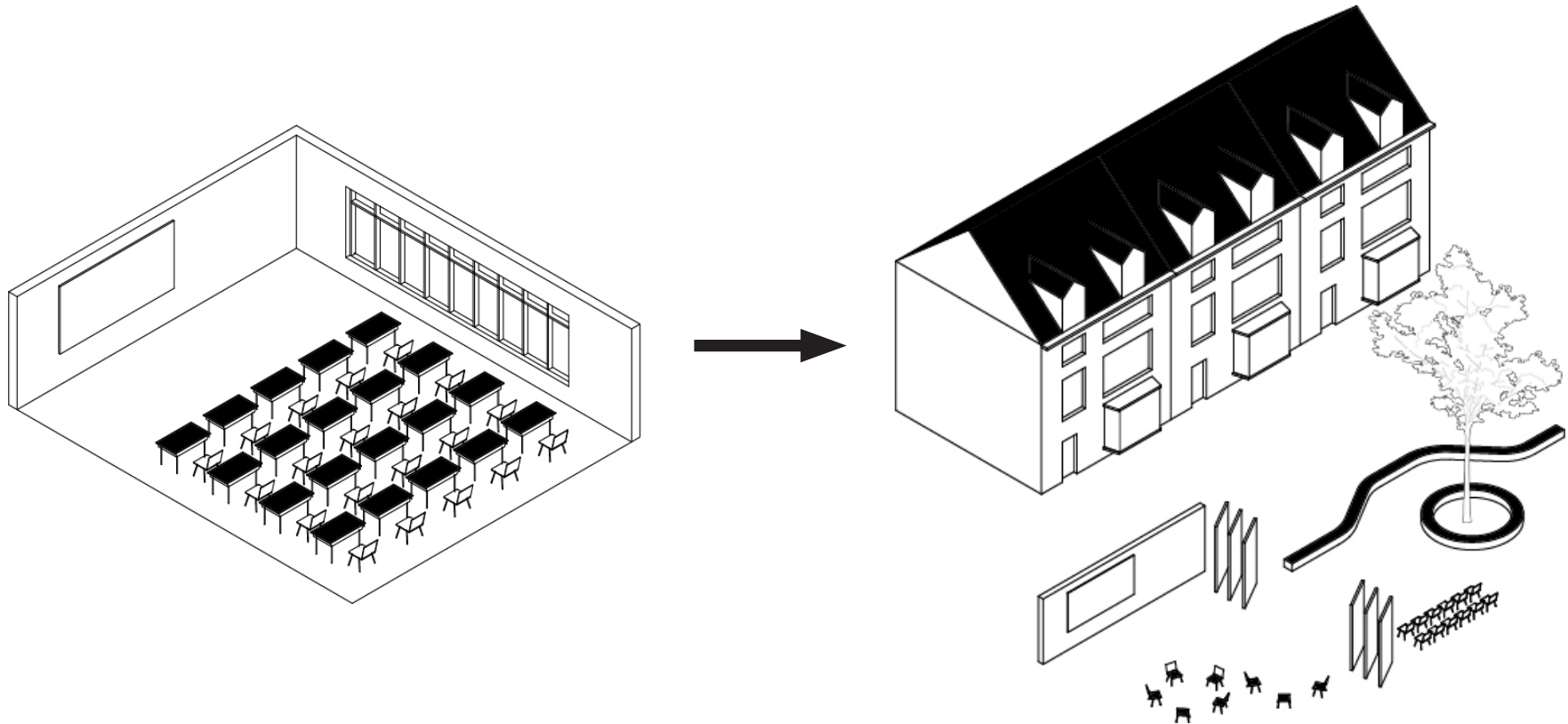


# RETHINK UNIVERSITY



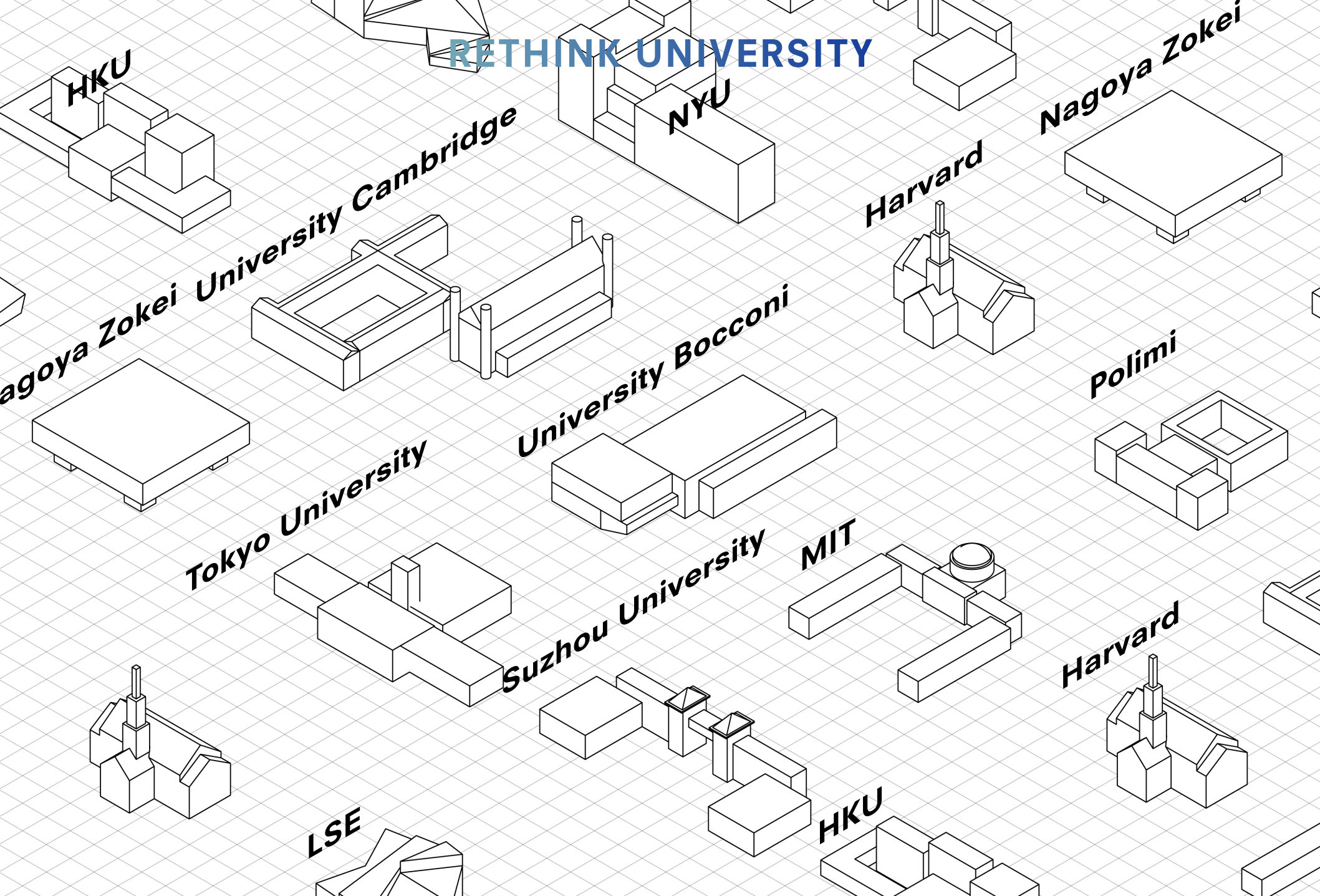


# RETHINK UNIVERSITY



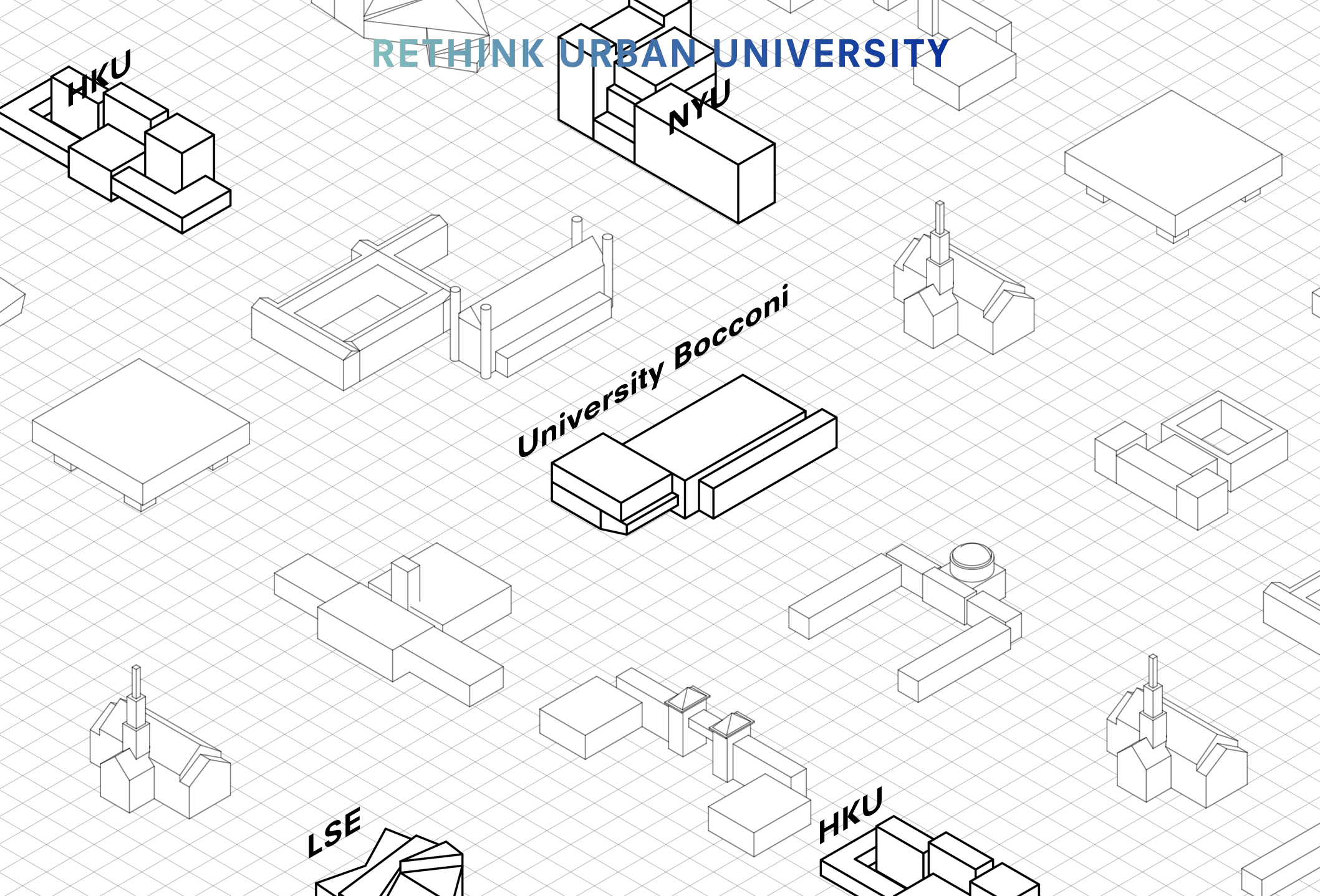


# RETHINK UNIVERSITY





# RETHINK URBAN UNIVERSITY





# RETHINK BOCCONI IN MILAN

*University Bocconi*



Abstract

# REIMAGINE BOCCONI



Project category: Education building  
Position: Bocconi University, Milan, Italy  
Site area: ~11000m<sup>2</sup>  
Client: Bocconi  
Function: public, teaching, conference



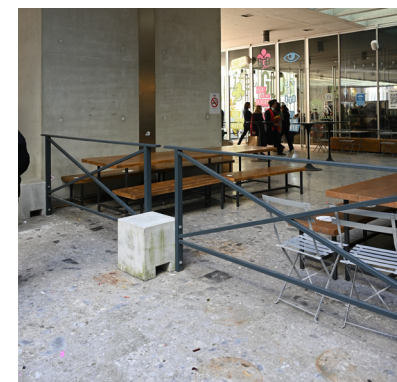
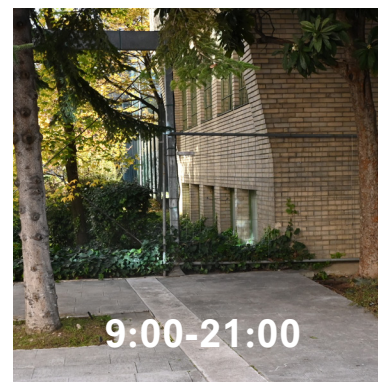
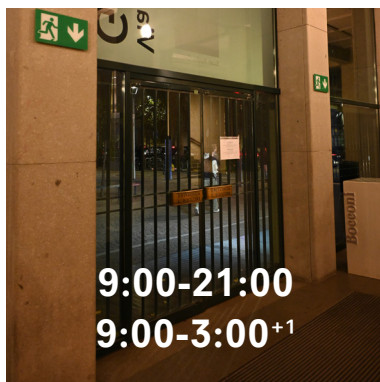
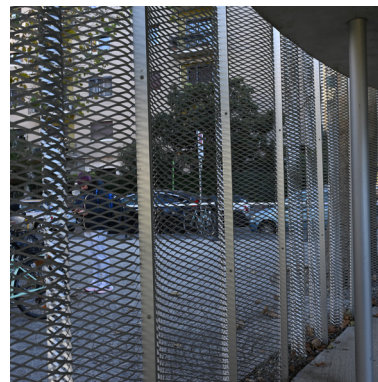
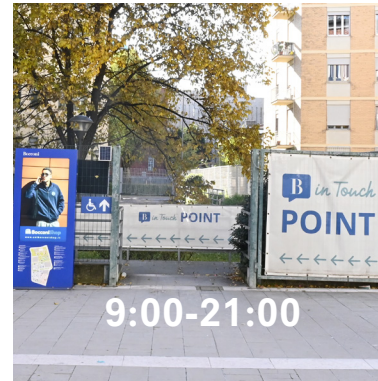
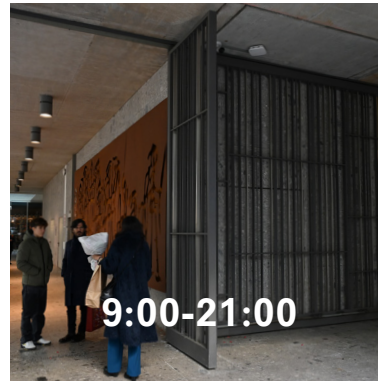
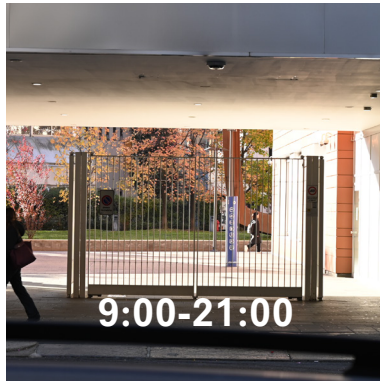


**"A WINDOW TO THE CITY"?**



# Introduction

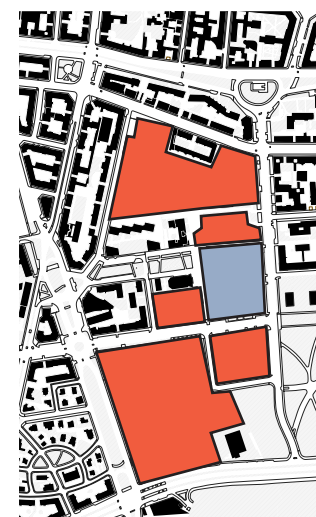
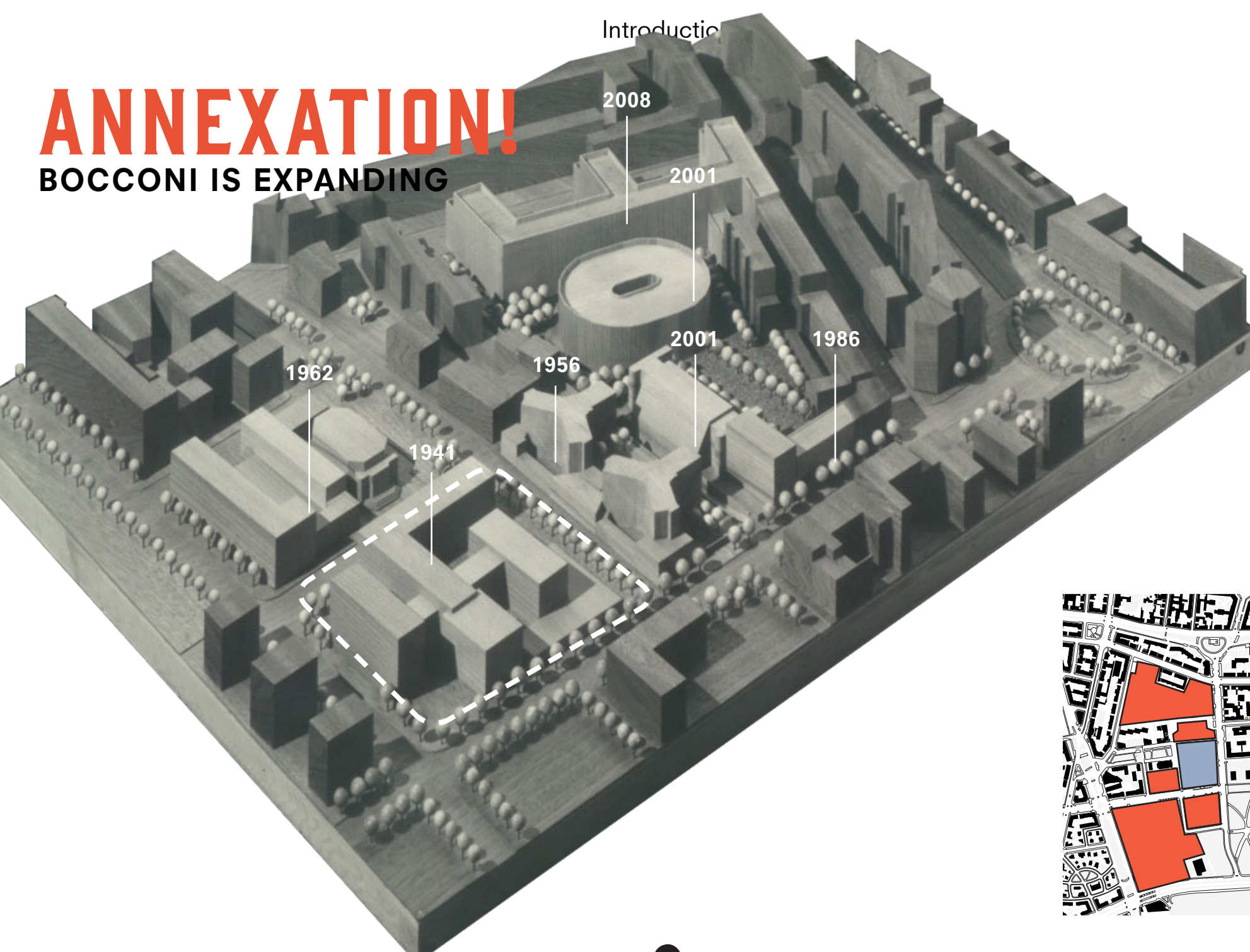
## CLOSED "WINDOW"





# ANNEXATION!

BOCCONI IS EXPANDING





Introduction

# BOCCONI'S ANNEX



Introduction

# BOCCONI'S ANNEX





Introduction

# BOCCONI'S ANNEX





Introduction

# BOCCONI'S ANNEX





Introduction

# PATH DEPENDENCE





# Introduction

## PATH DEPENDENCE



\*Milan Municipality request Bocconi to open its sport facility to the residents nearby

**Setting up fences becomes an *instinct* while *opening* is a compromise**



**[Introduction]**

**Design Brief**

**Design**

**Materialization**

**Conclusion**

# INTERVIEWS

Safety ?  
Number control?  
Culture ?



## 38 candidates

From

1. University Staff



2. Bachelor Students of North Campus



3. Master Students of South Campus



4. Guards

5. Graduated Students *(already working, but using university for continuous learning)*



6. Merchants





# 97%

of interviewees think the surrounding  
neighbourhood is **safe**

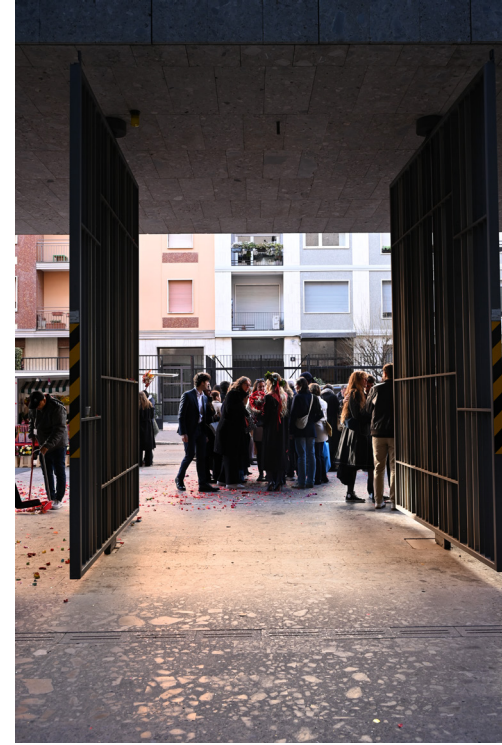




app. **60% Students:**  
**Fence are NOT necessary !**







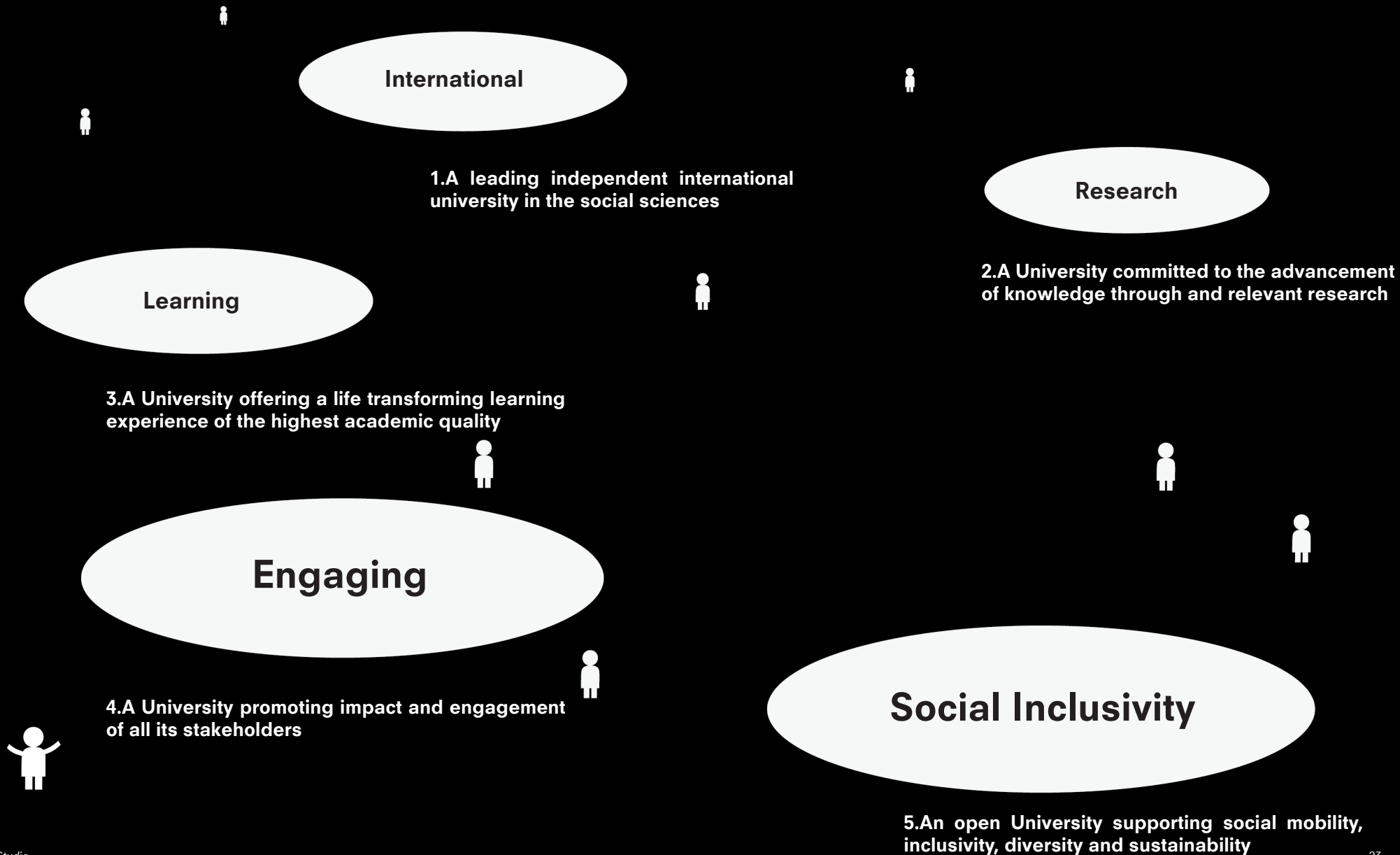
**Limited Self-Study Place**  
**Limited Canteen** (app.250 seats vs 15000 students)  
**Limited Public Space**



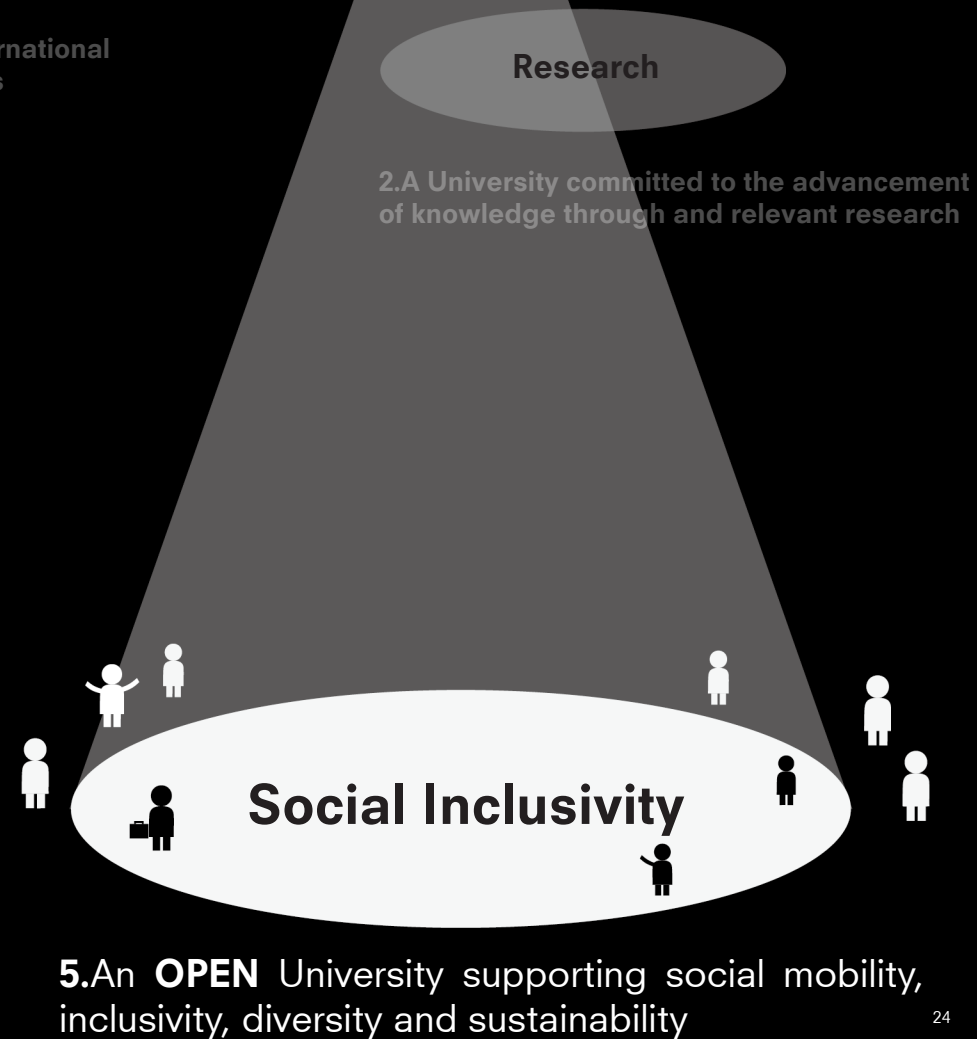
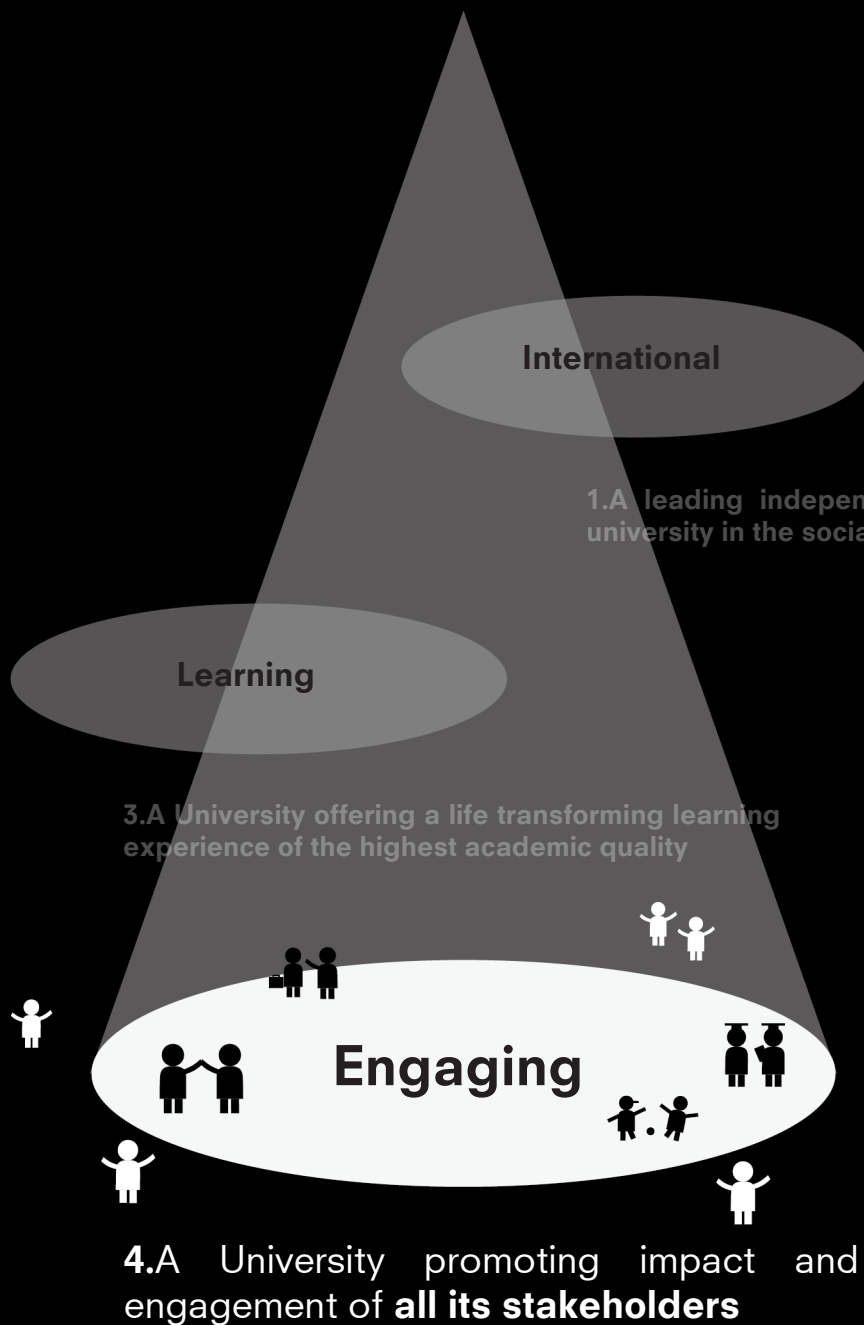
# “University for the Rich”



# 2030 Bocconi



# 2030 Bocconi

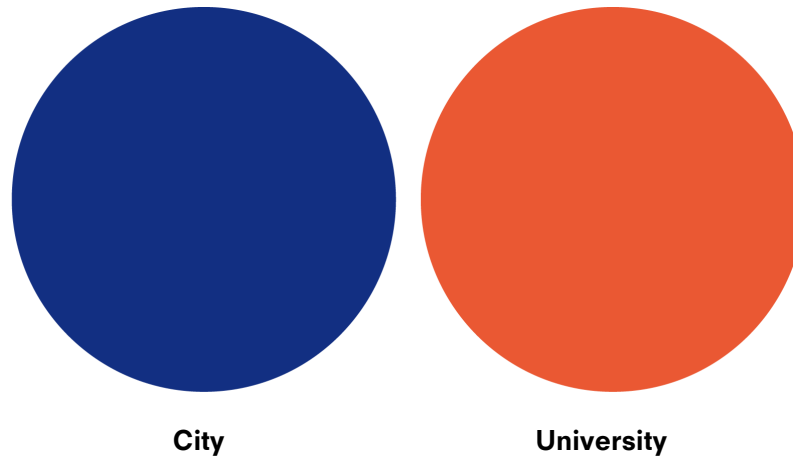




# Introduction

## WHAT IF

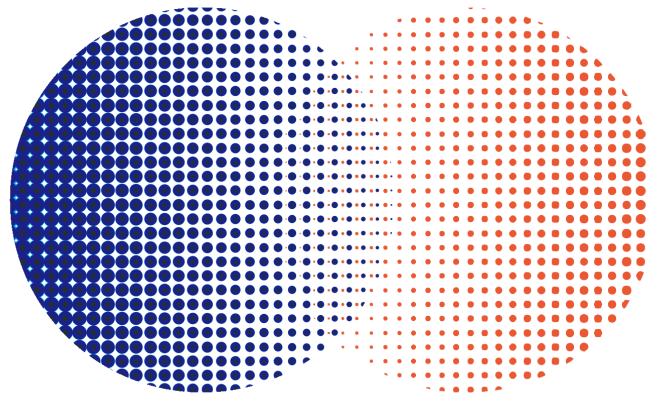
**Bocconi** with closed “boundaries” can not achieve its goal  
without opening and reconnecting with the **Milan** and Public



# Introduction

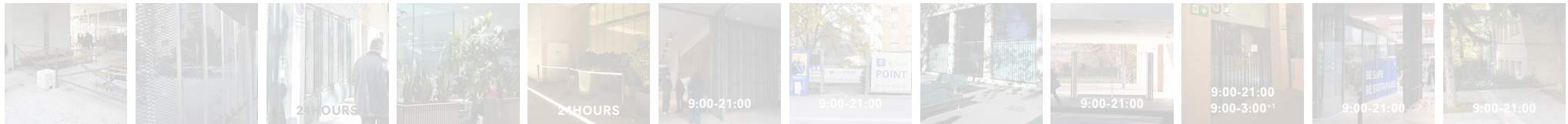
## WHAT IF

**Bocconi** with closed “boundaries” can not achieve its goal  
without opening and reconnecting with the **Milan** and Public



City

University





# RESEARCH QUESTION

**How to facilitate the integration of Bocconi and Milan through the control of boundary in favour of knowledge exchange?**

# WHAT IF BOUNDARY



## FACADISM



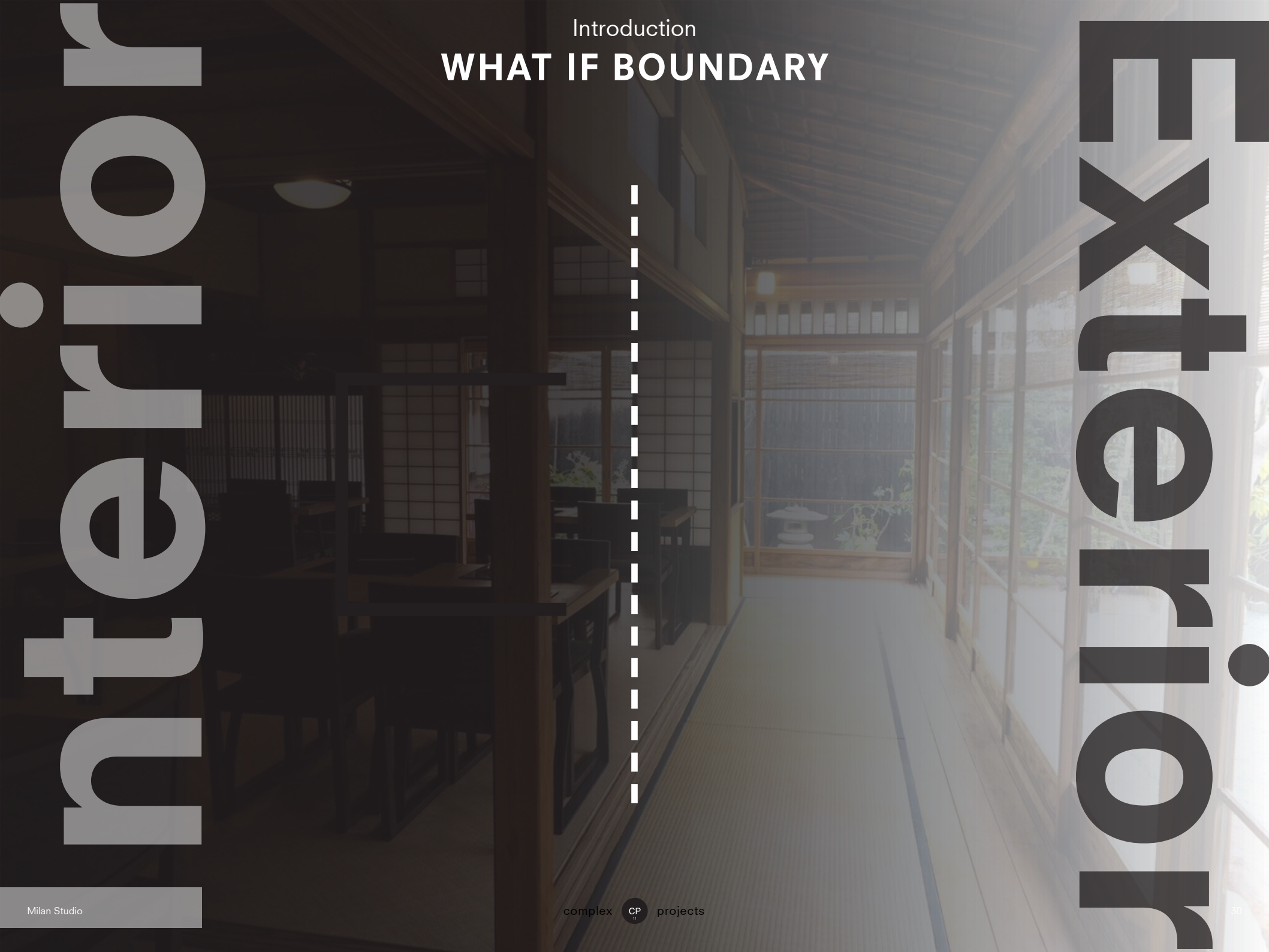
Introduction

# WHAT IF BOUNDARY



## “ENGAWA”縁側

“Corridor under eaves”



Introduction

# WHAT IF BOUNDARY

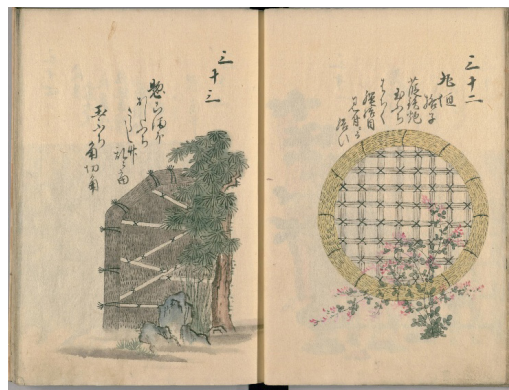
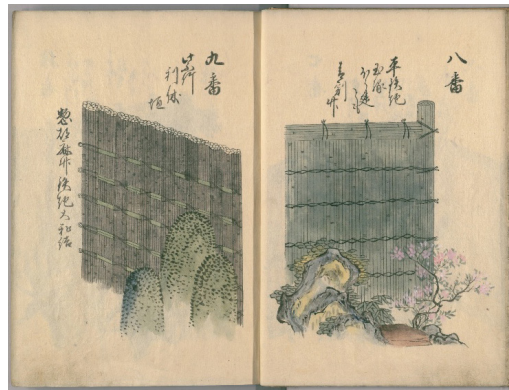
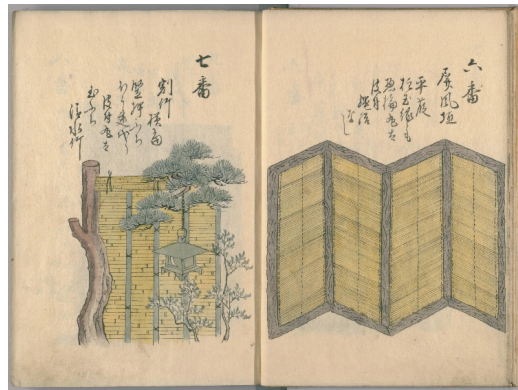
interior

exterior



# Introduction

## WHAT IF BOUNDARY



# Introduction

## [Design Brief]

### Design

### Materialization

### Conclusion



# SITE-EVALUATION

# Fact

- Climate
- Population
- Function Allocation
- ...

## University

## City



PUBLIC



DISCUSSION



SPORT



SERVICE



NATURE

Focusing on surrounding public space, and look for opportunities to encourage public participation.

Look for existing discussion space, ex. Meeting room, shared office, etc.

Look for sports facilities and what are the different choices of sports for locals.

Look for what services local people need and where those services spread.

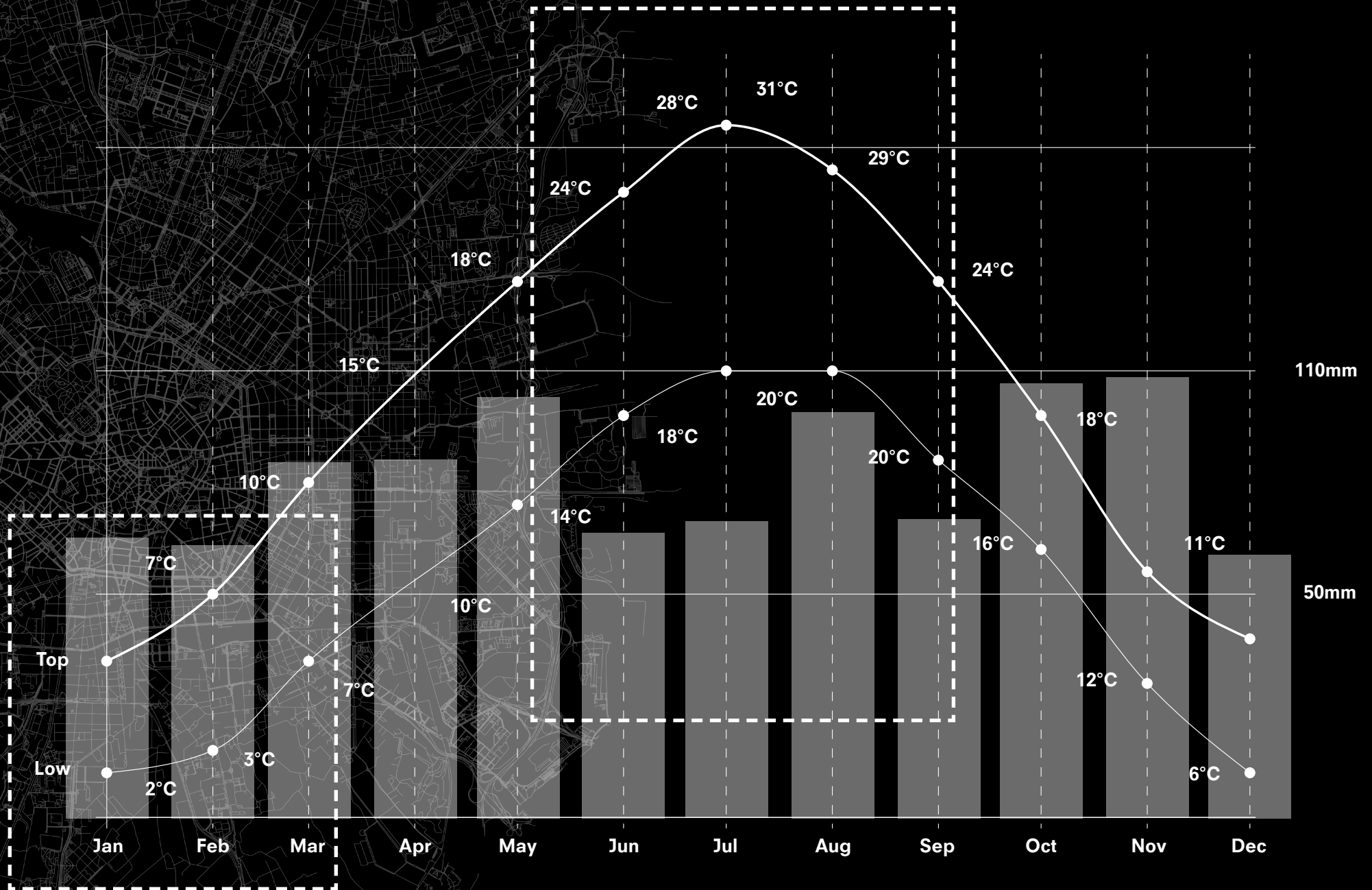
Understand the surrounding parks, future project and natural environments. Surrounding life and plants.

## Ambition

## Criteria

# Design Brief

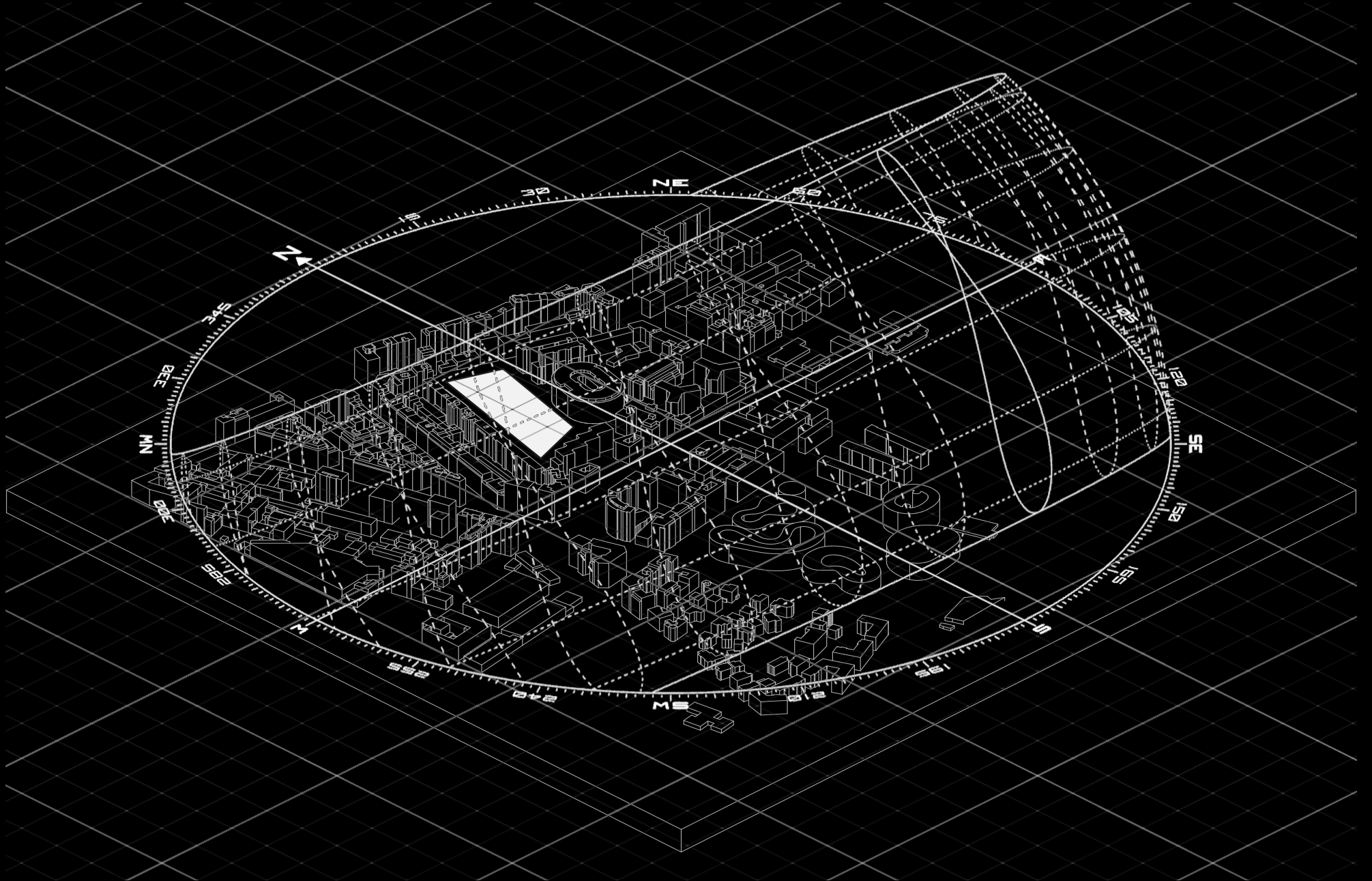
## SITE-CLIMATE





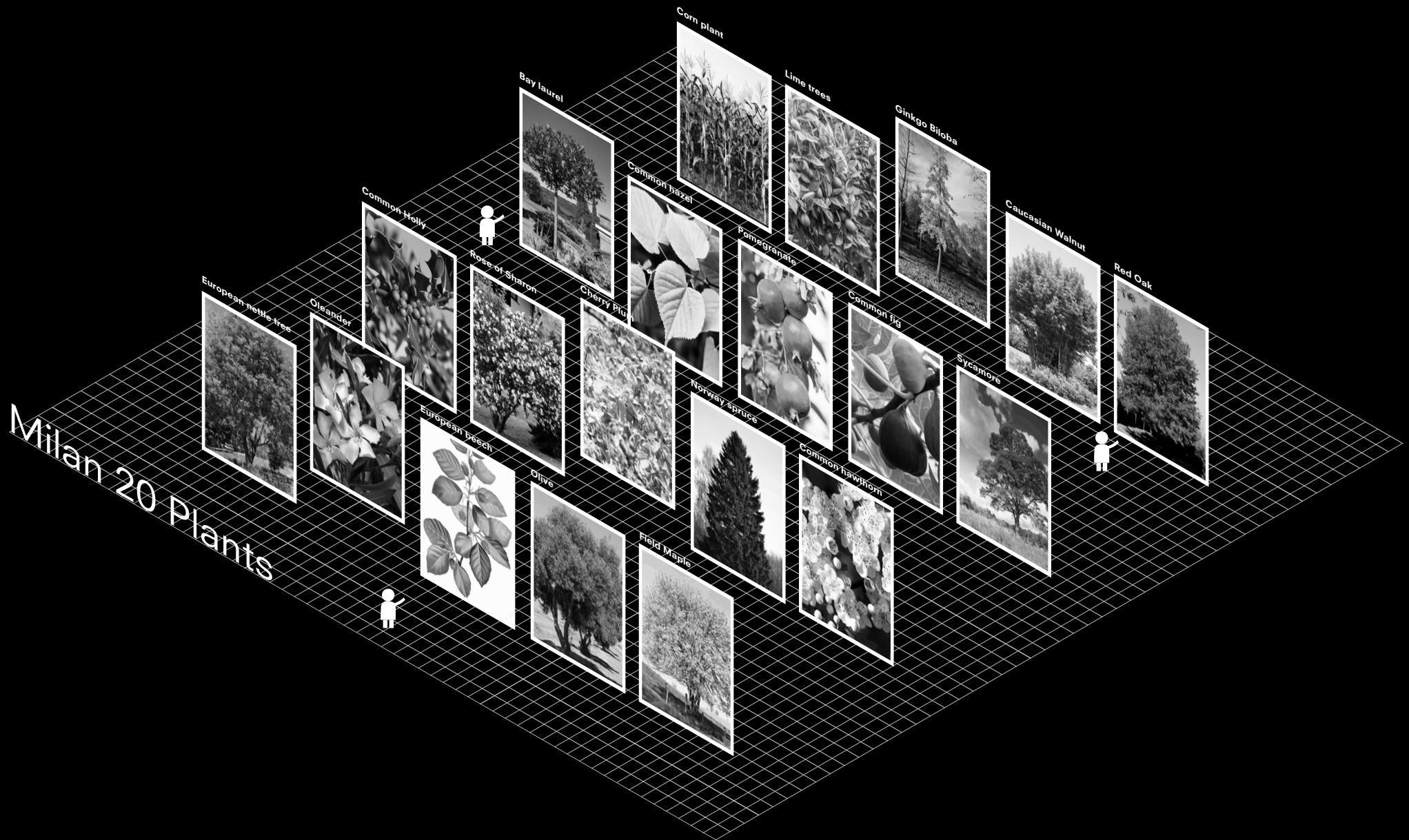
Design Brief

# SITE-SUN



Design Brief

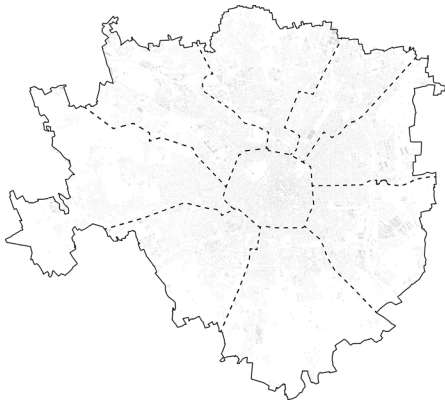
# SITE-NATURE





# Design Brief

## OVERVIEW



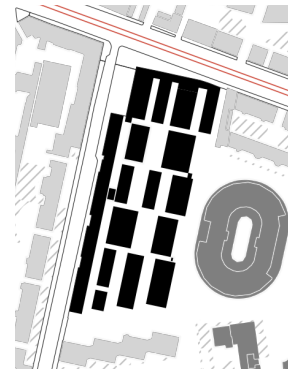
**Milan**



**Zone 5**



**Neighbourhood**



**Site**

# MILAN-POPULATION





# Design Brief

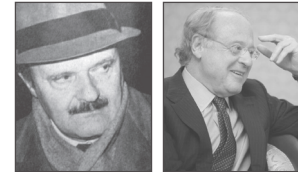
## MILAN-BOCCONI



Politician



Business



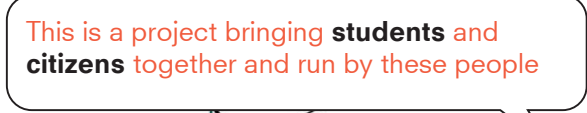
Noble & Celebrity



### QS ranking by subject: Business

1. Bocconi University
2. Politecnico di Milano
3. Università Cattolica del Sacro Cuore
4. University of Milano Bicocca

# Design Brief



Picture source: <https://blog.urbanfile.org/2020/05/01/milano-urbanistica-piazze-aperte-la-rivoluzione-nei-quartieri-dopo-covid19/>



# Design Brief

## ZONE 5



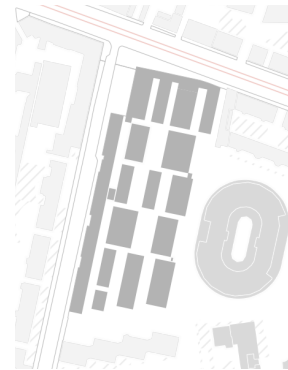
Milan



Zone 5



Neighbourhood



Site

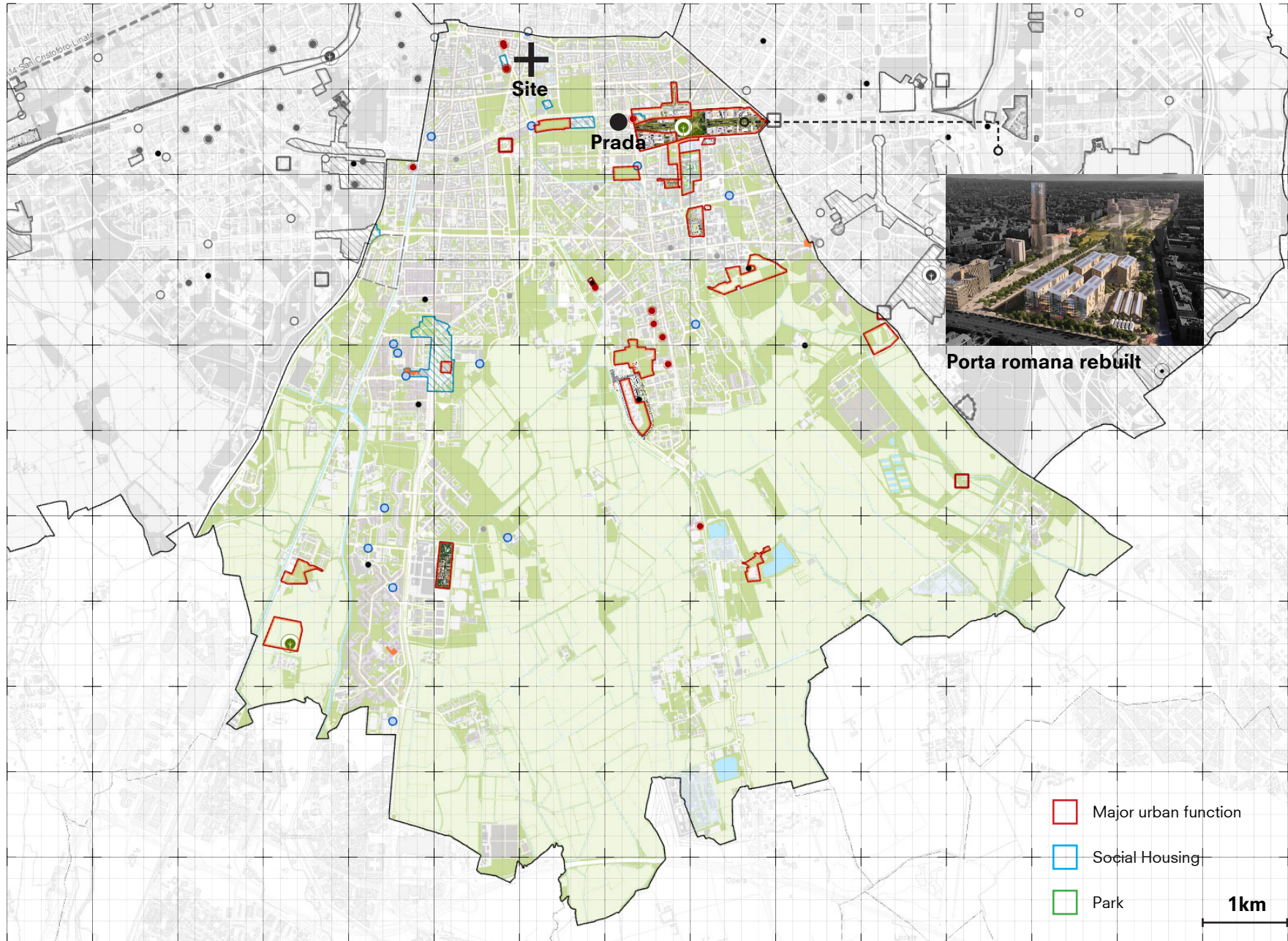
# SITE - GREENARY



Zone 5



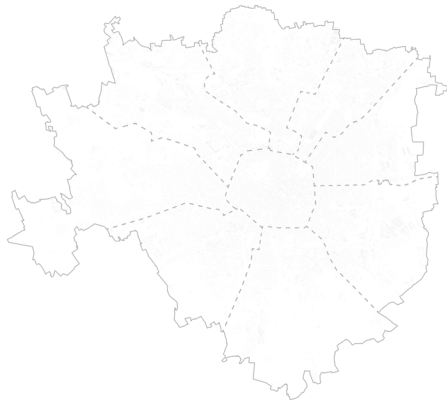
# SITE - GREENARY



Zone 5

# Design Brief

## NEIGHBOURHOOD



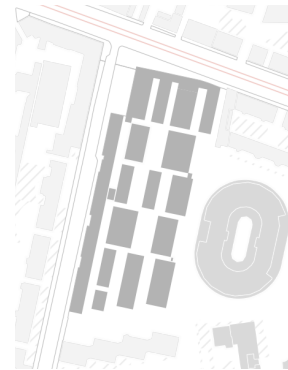
Milan



Zone 5



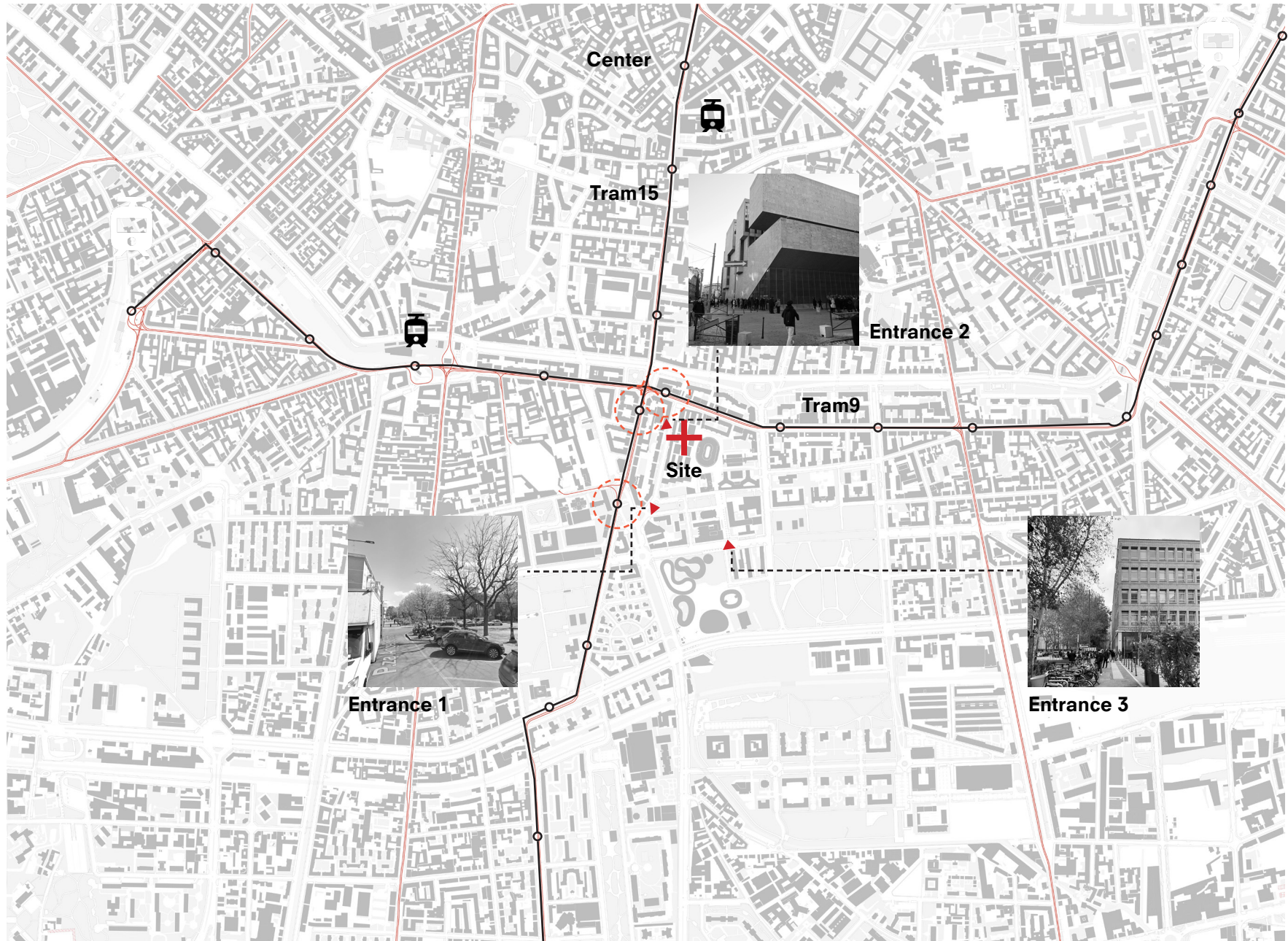
Neighbourhood



Site



# SITE - TRAFFIC

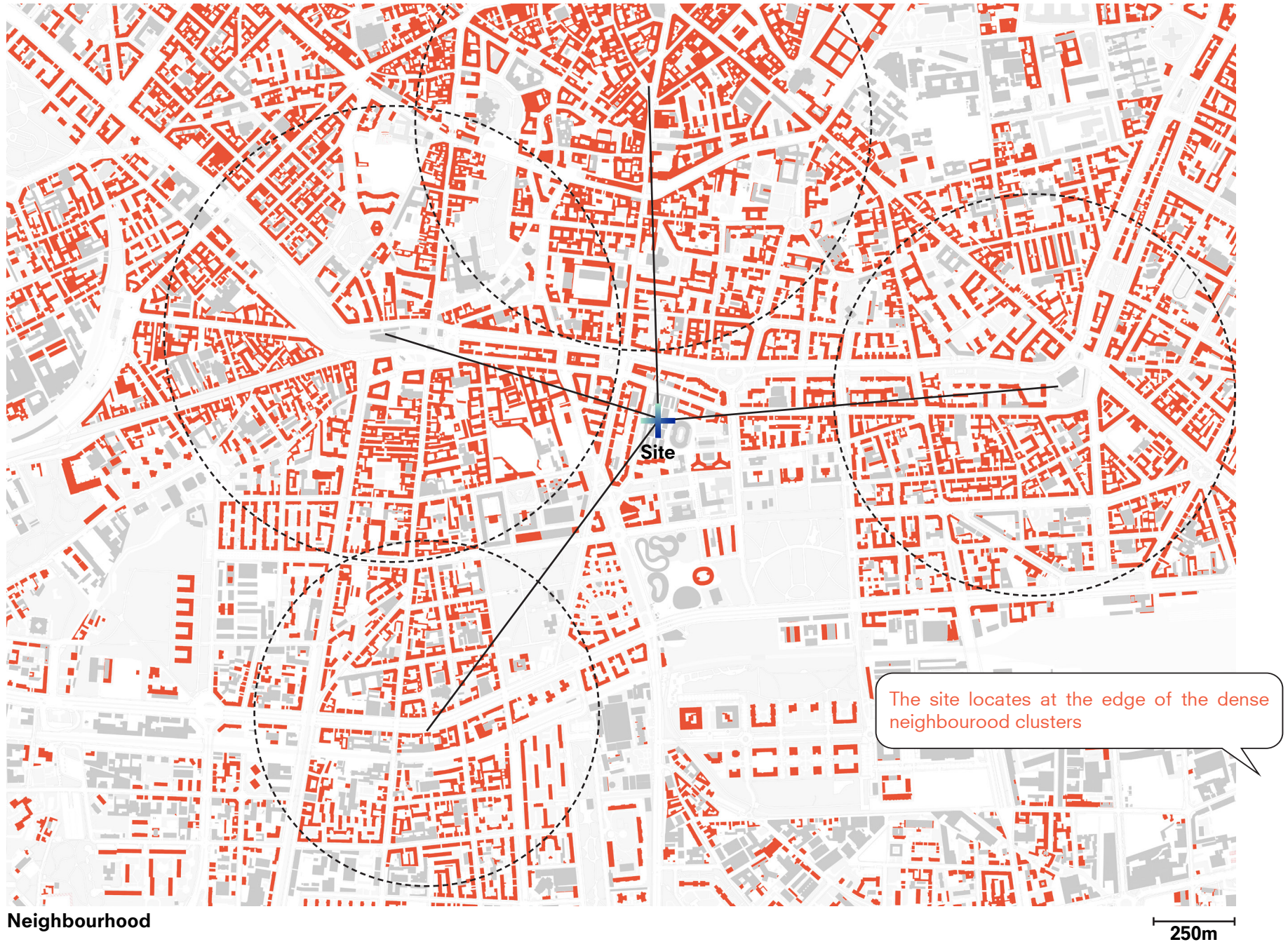


Neighbourhood

250m

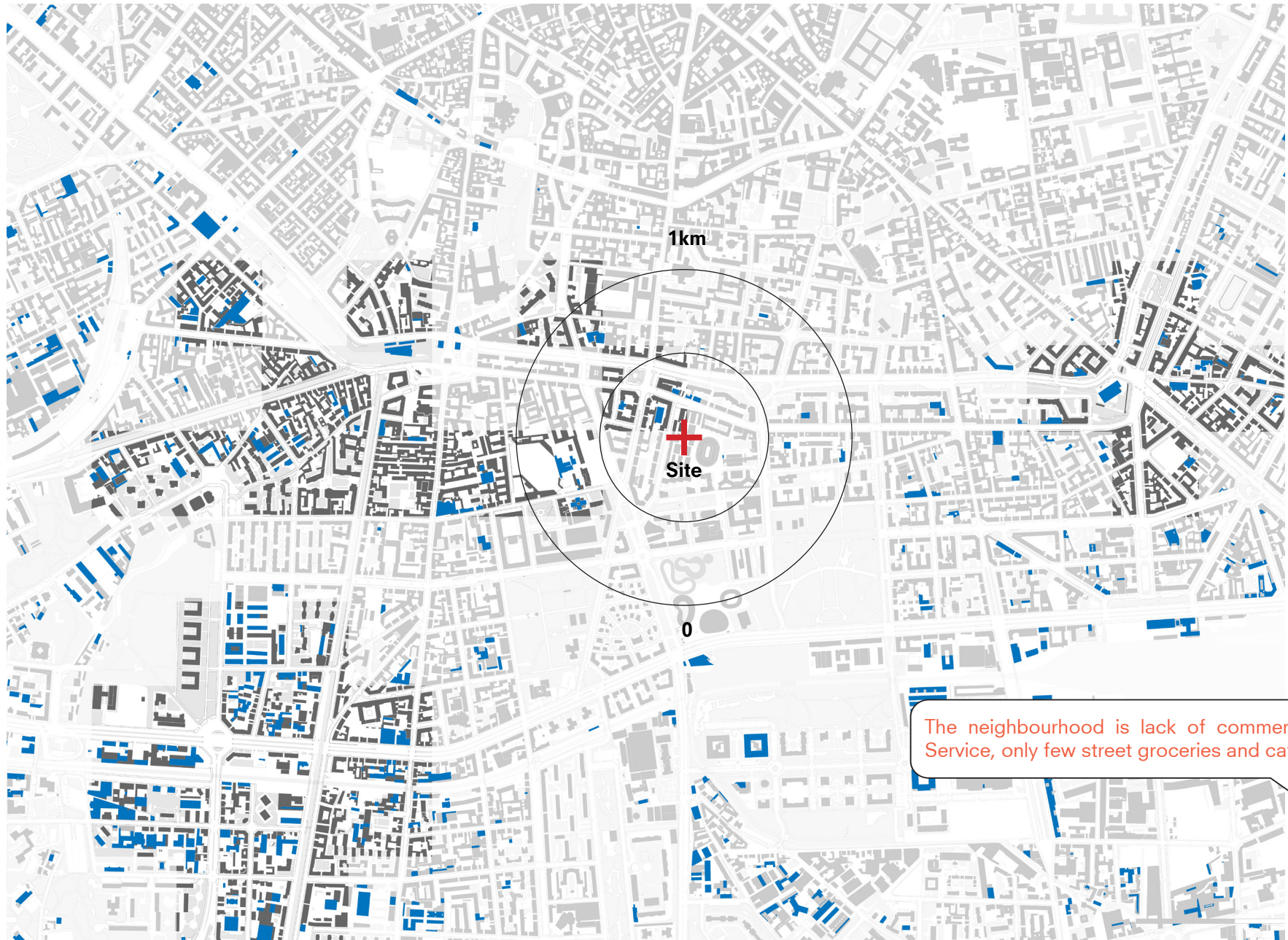


# SITE - RESIDENTIAL





# SITE - COMMERCIAL

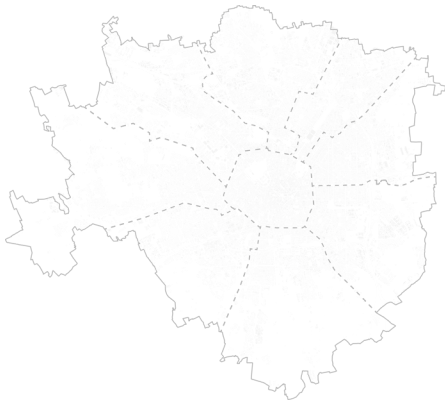


Neighbourhood

250m

# Design Brief

## SITE



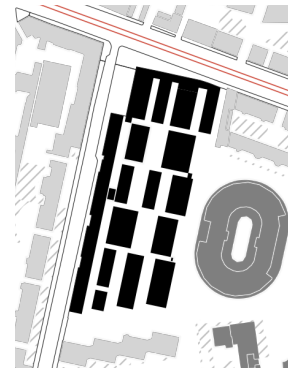
Milan



Zone 5



Neighbourhood

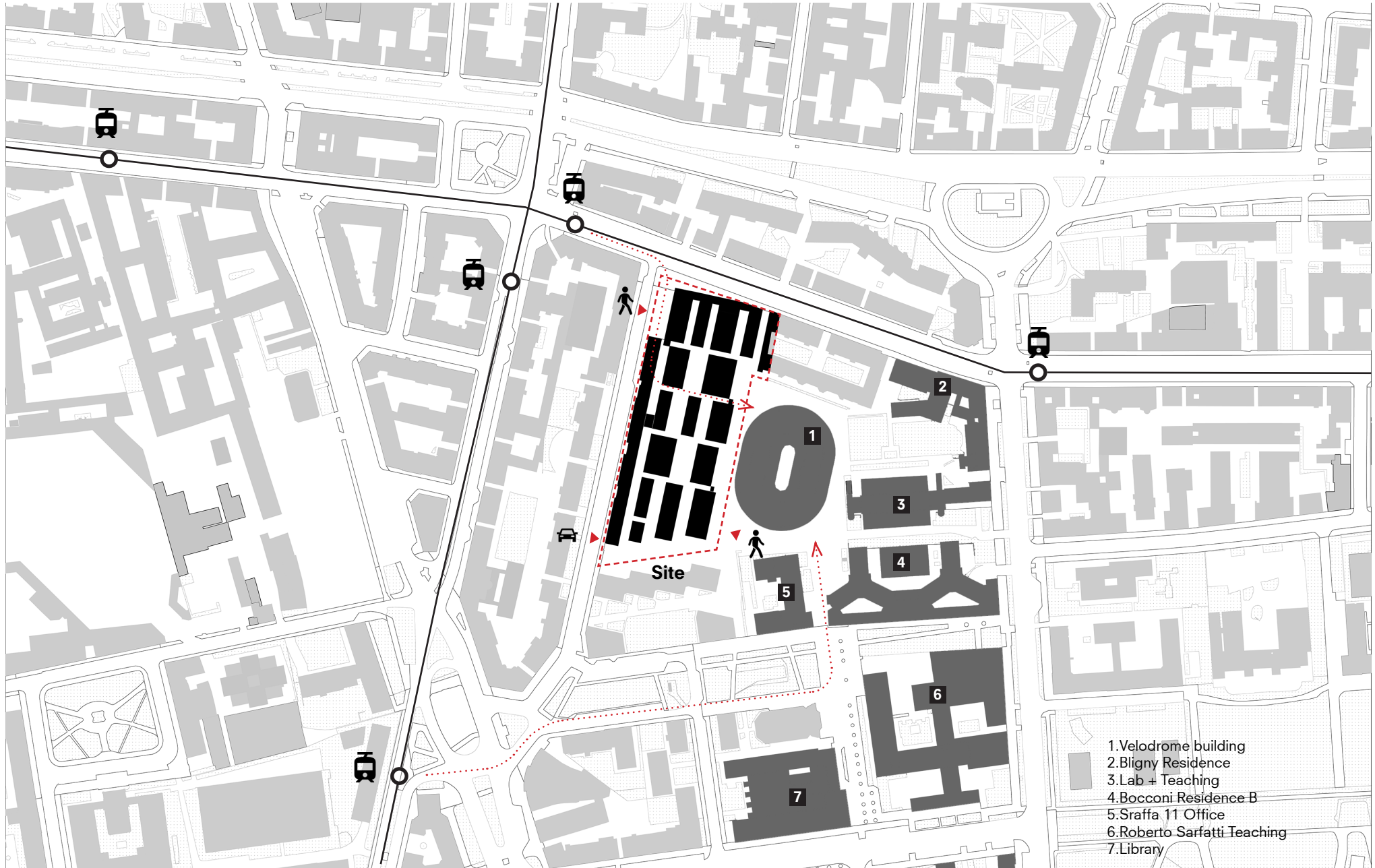


Site



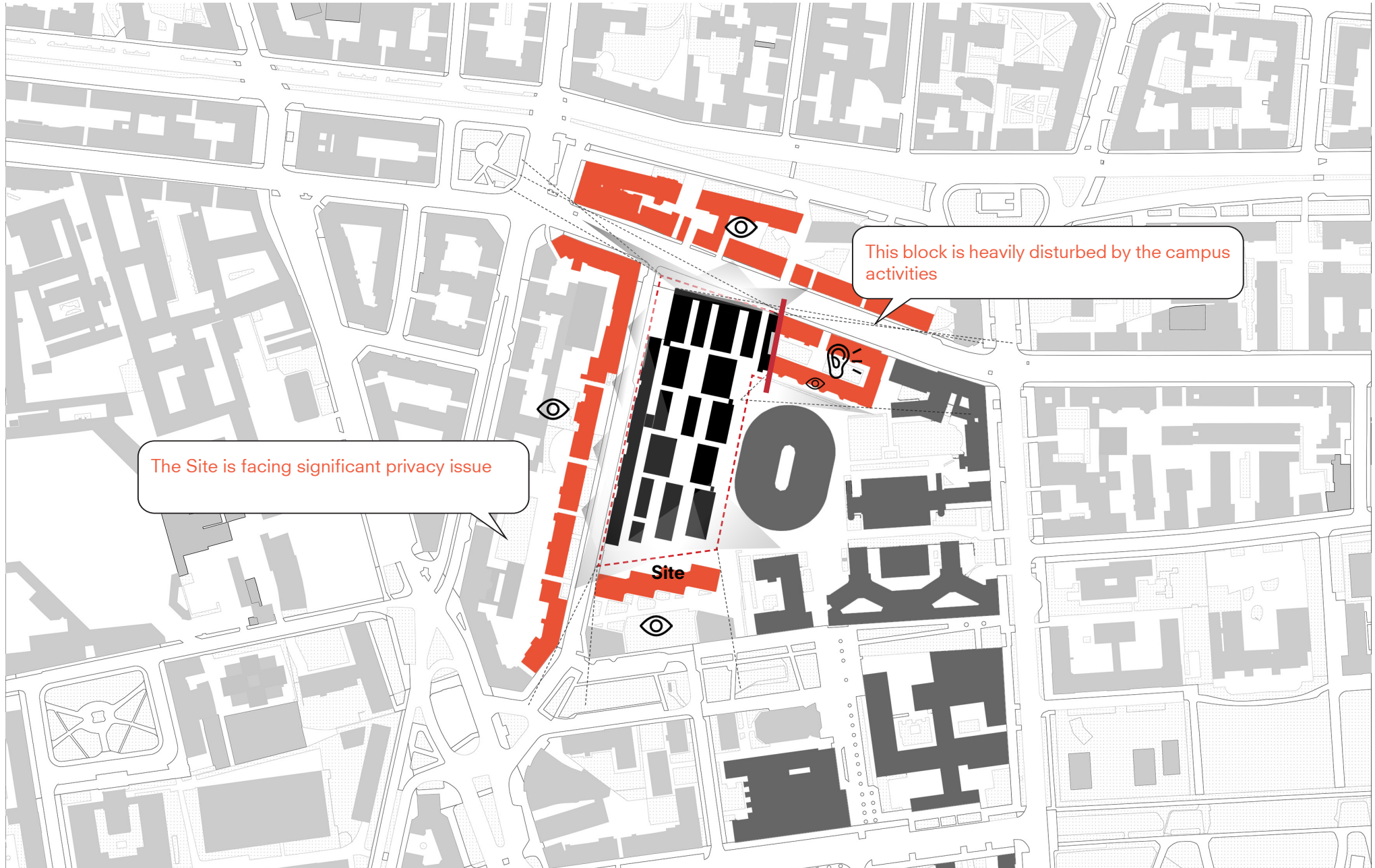
Design Brief

# SITE-OVERVIEW



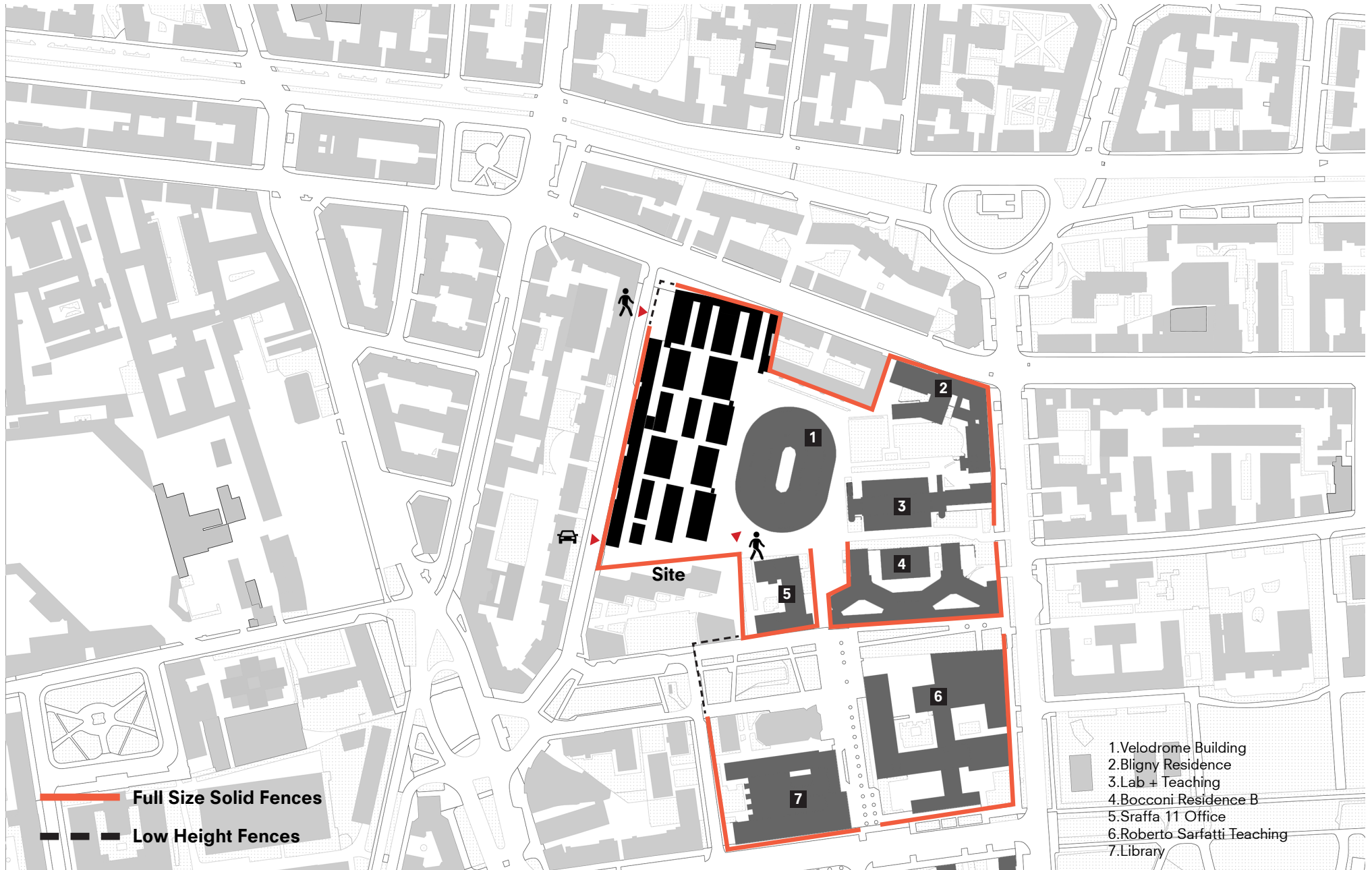
Design Brief

# SITE - PRIVACY





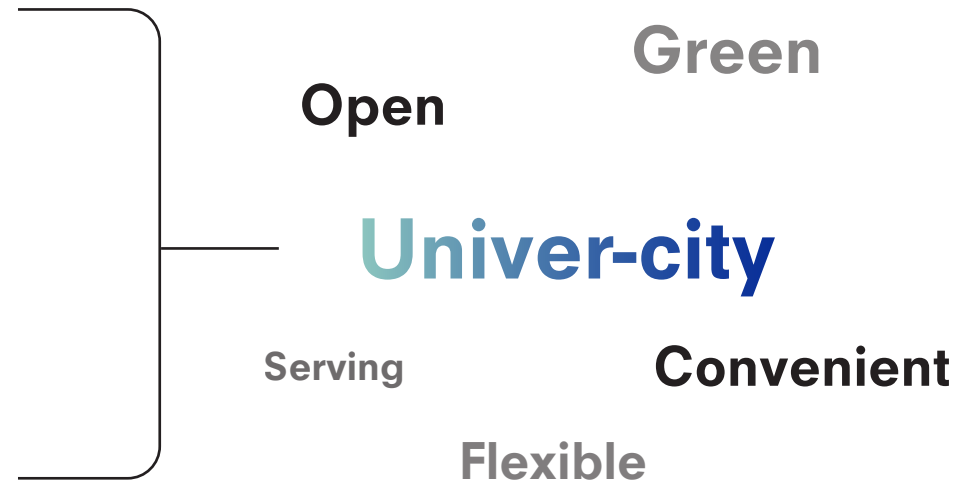
# SITE - BOUNDARY



Design Brief

# SITE CONCLUSION

1. Opportunity for public projects
2. Green Belt
3. Convenient Transportation
4. Privacy and boundary issue
5. Parking lots (Demand for vehicle parking)
6. The site's north faces an important commercial axis and can be used as commercial space





# CLIENT

## University

Istituto Javotte **Bocconi**



Università  
**Bocconi**  
MILANO

**SDA Bocconi**  
SCHOOL OF MANAGEMENT

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## Government/Municipality



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## Companies/University Partners

### Commerce



J.P.Morgan



**Deloitte**.

### Law

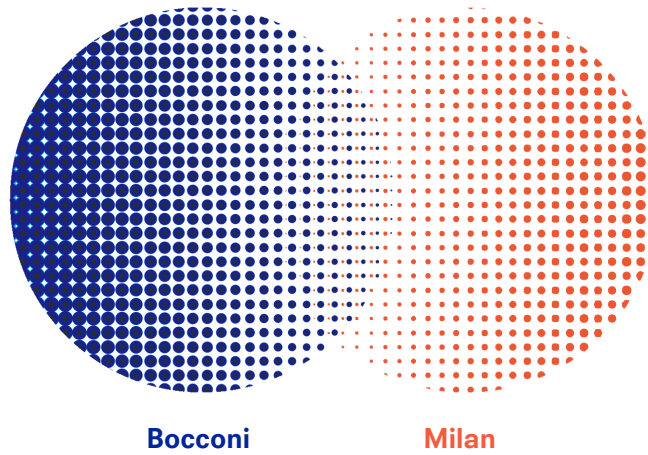


Hogan  
Lovells



Design Brief

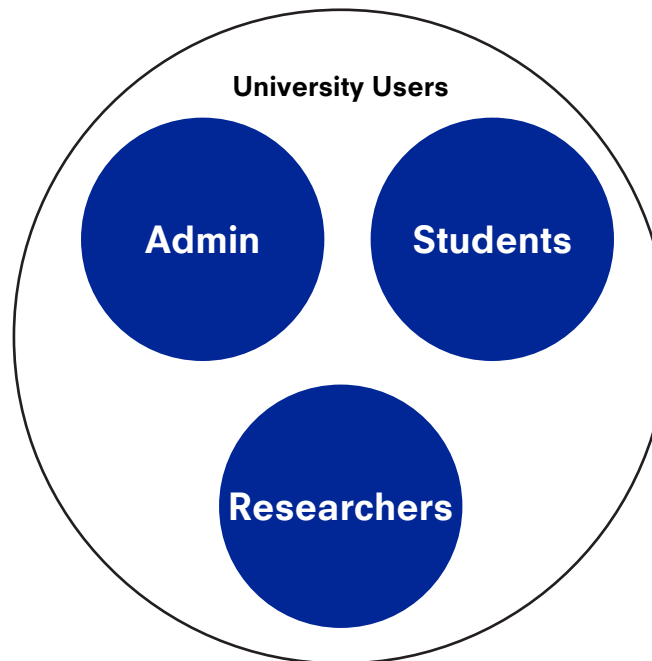
# CLIENT





Design Brief

# CLIENT



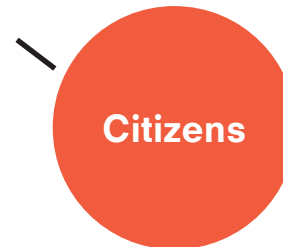
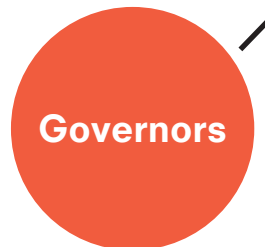
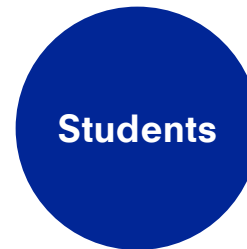
# Design Brief

## CLIENT

### City Users



### University Users





# Design Brief

## CLIENT

Students

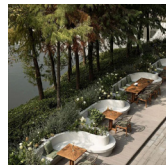
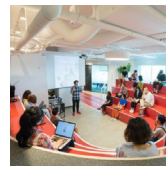
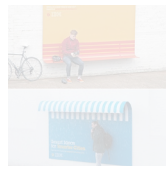
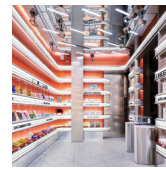
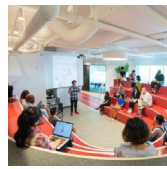
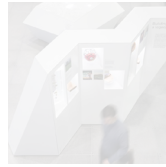
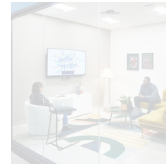
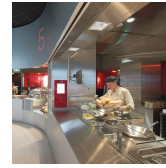
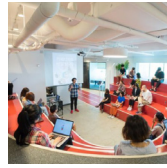
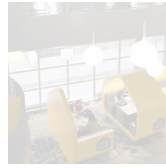
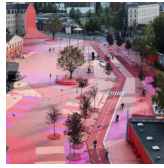
Researchers

Admin

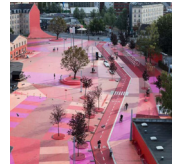
Citizens

Companies

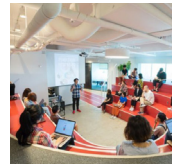
Governors



## SHARED NEEDS



**PUBLIC**



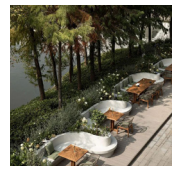
**DISCUSSION**



**SPORT**



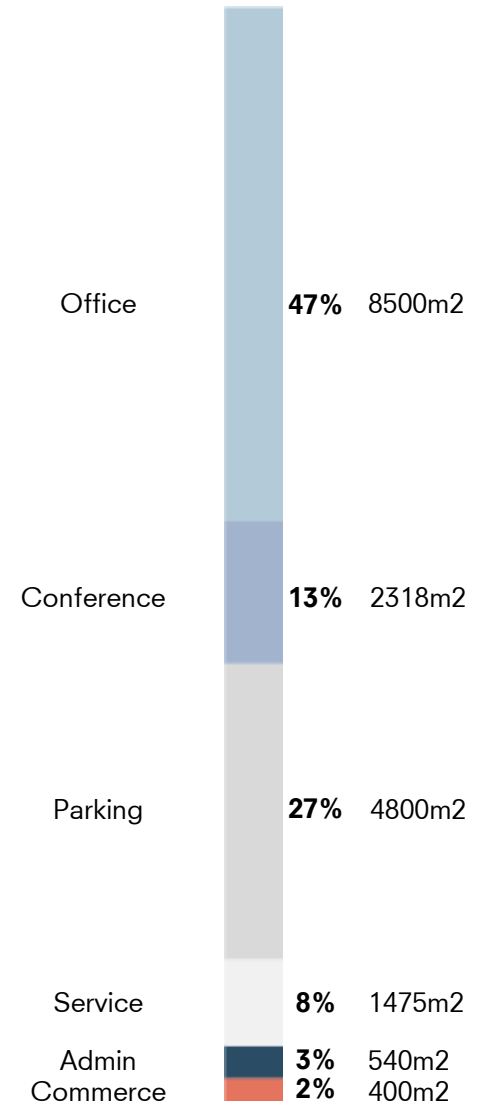
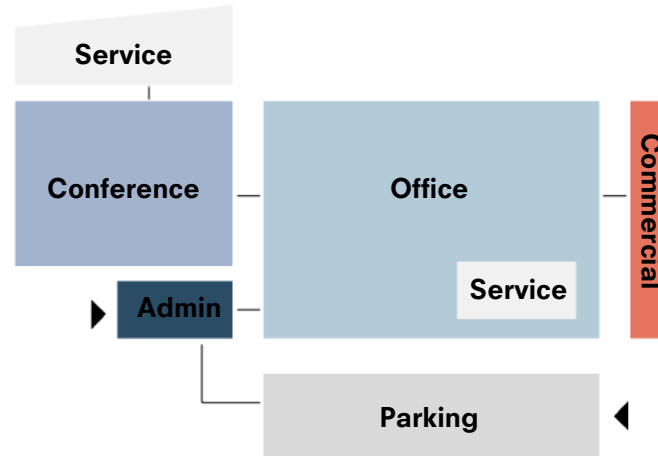
**SERVICE**



**NATURE**

# Design Brief

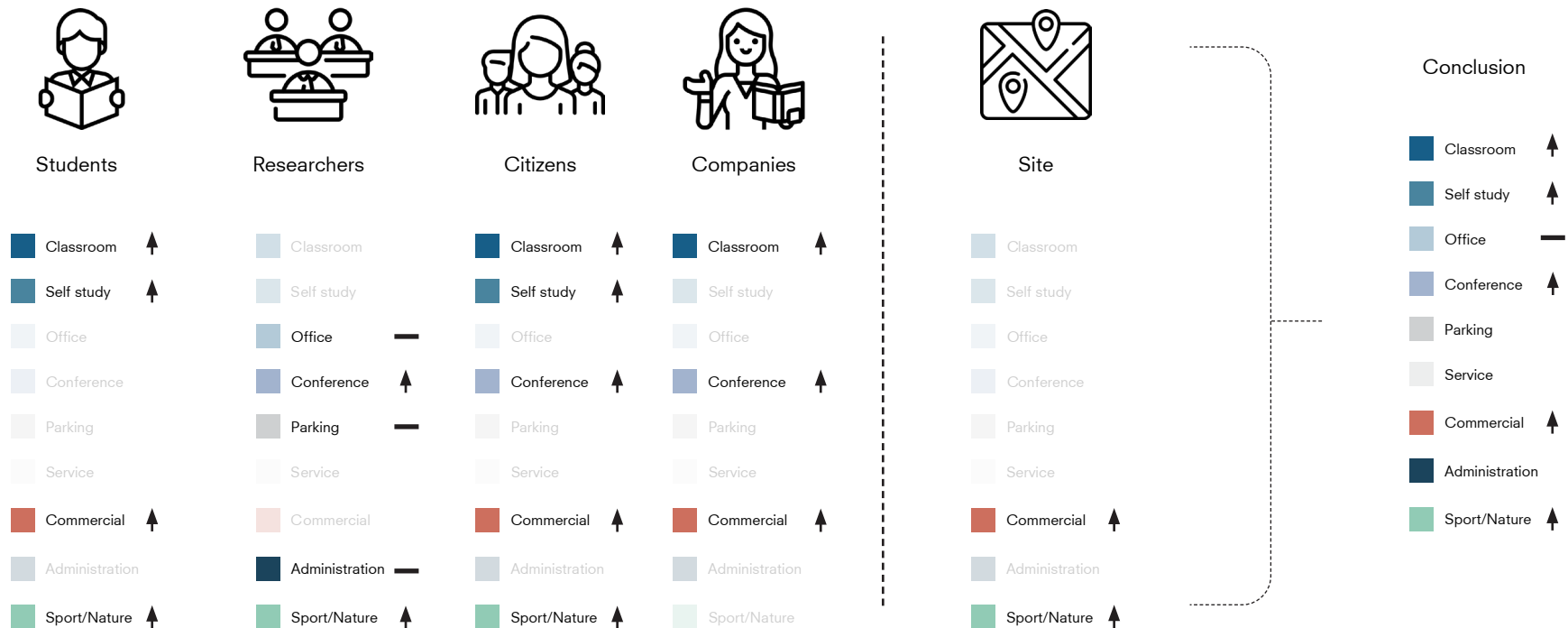
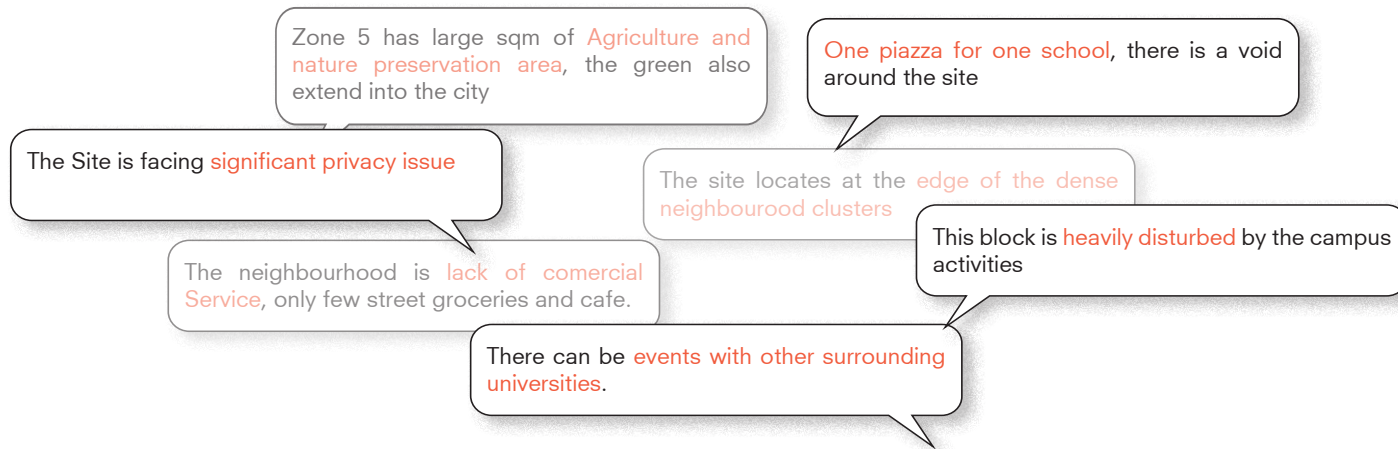
## GRAFTON BUILDING



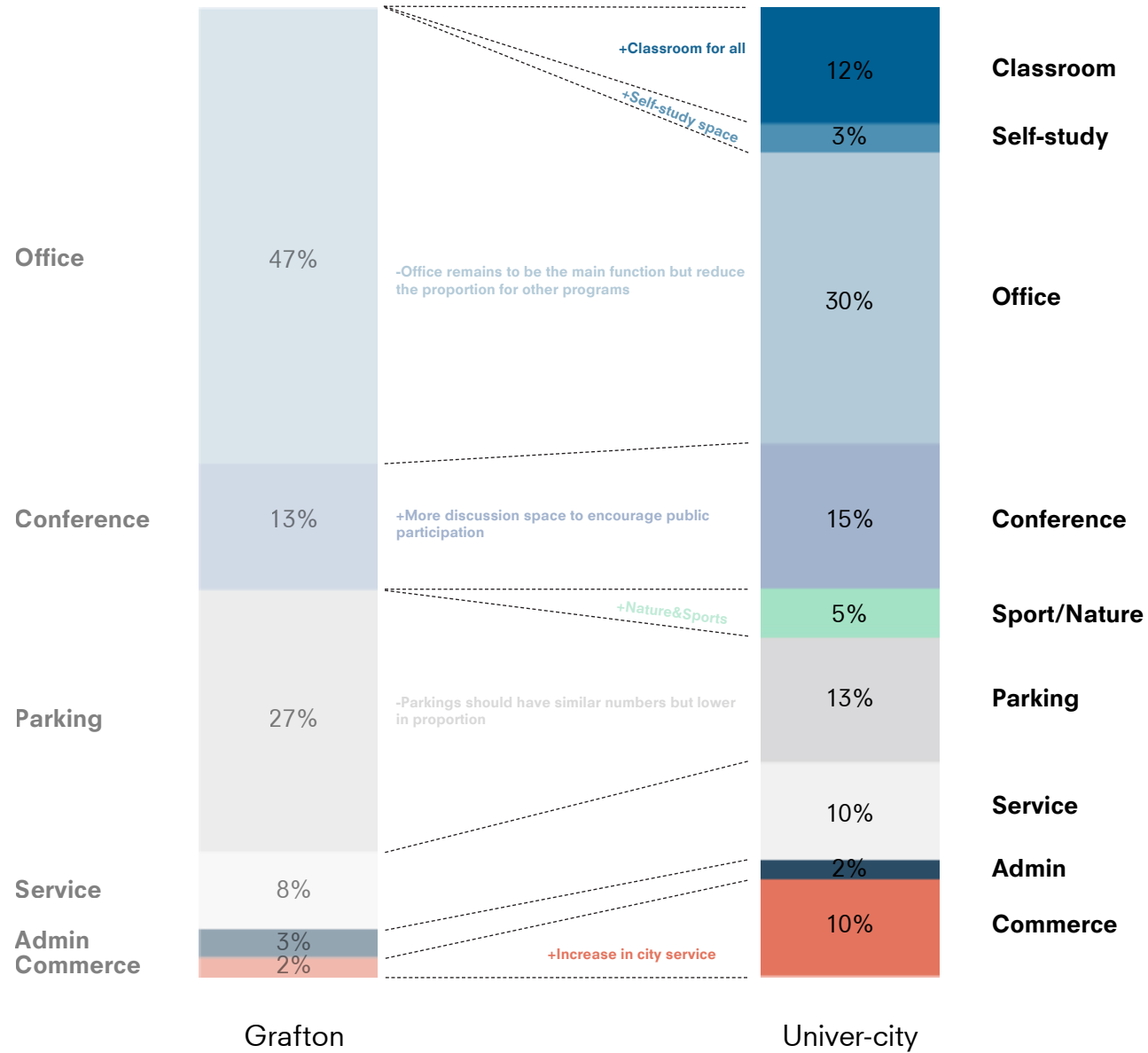


# Design Brief

## PROGRAM



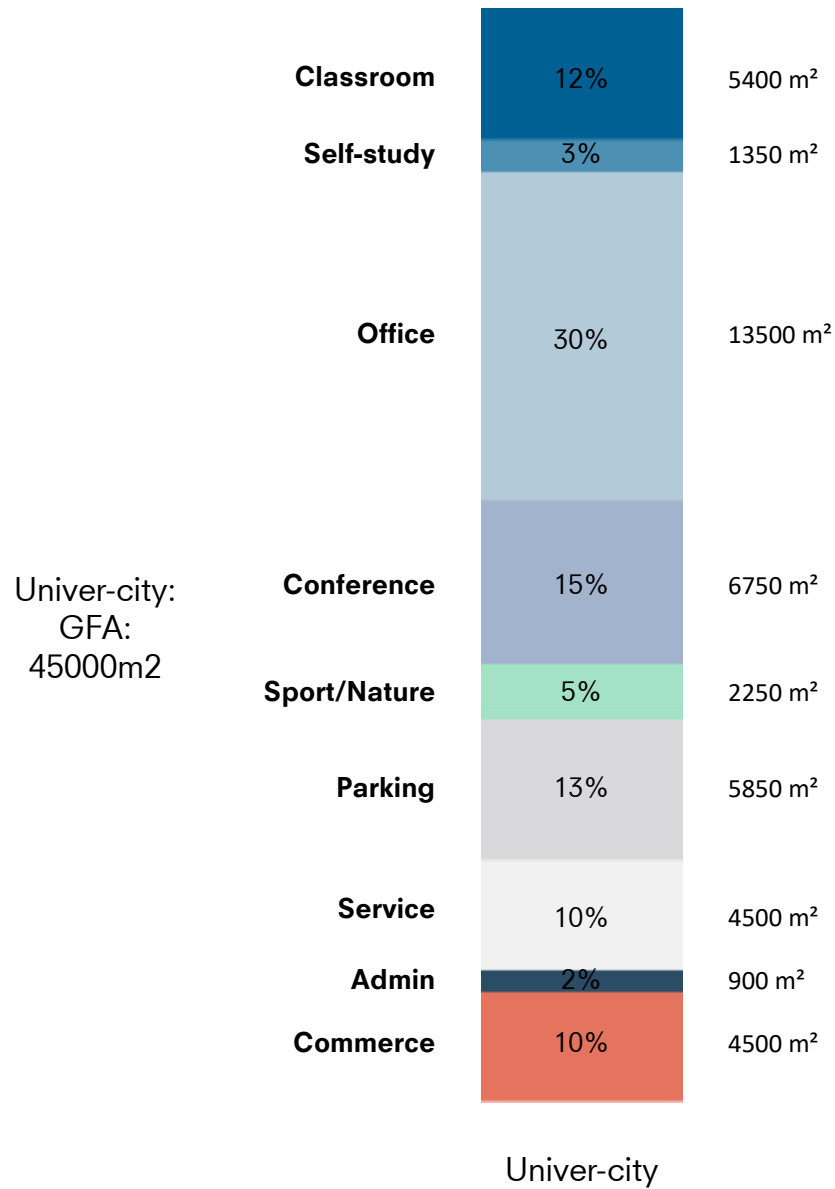
# Design Brief PROGRAM





# Design Brief

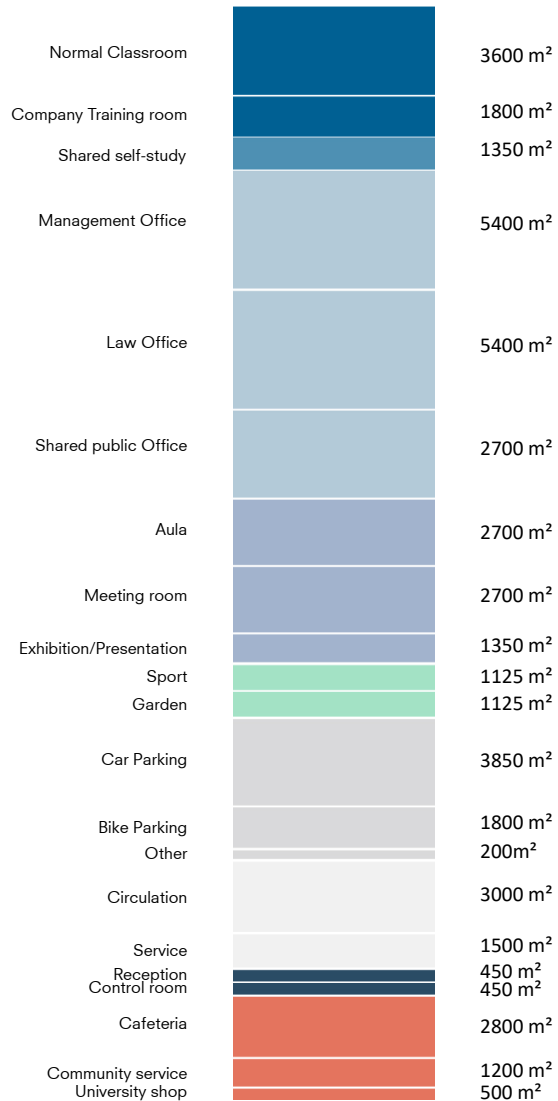
## PROGRAM



# Design Brief

## PROGRAM

Univer-city:  
GFA:  
45000m<sup>2</sup>



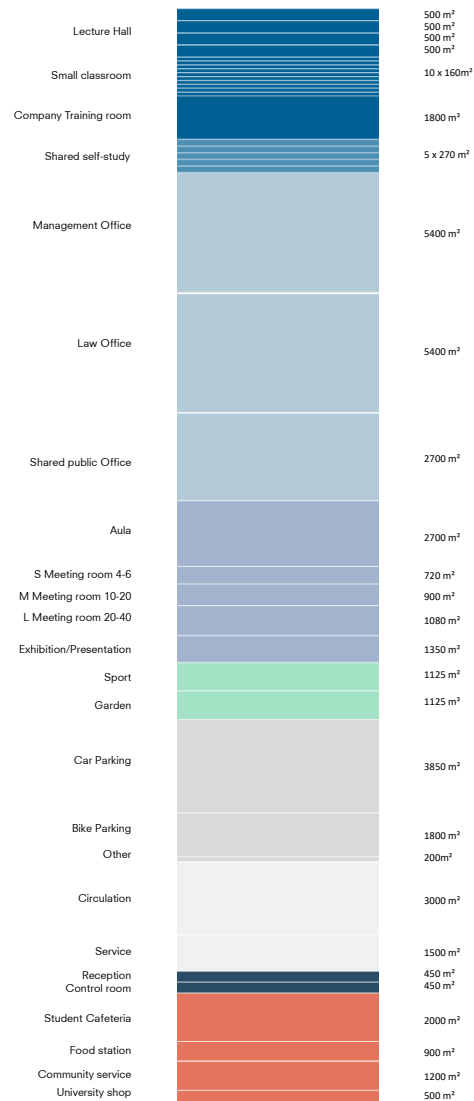
Univer-city



# Design Brief

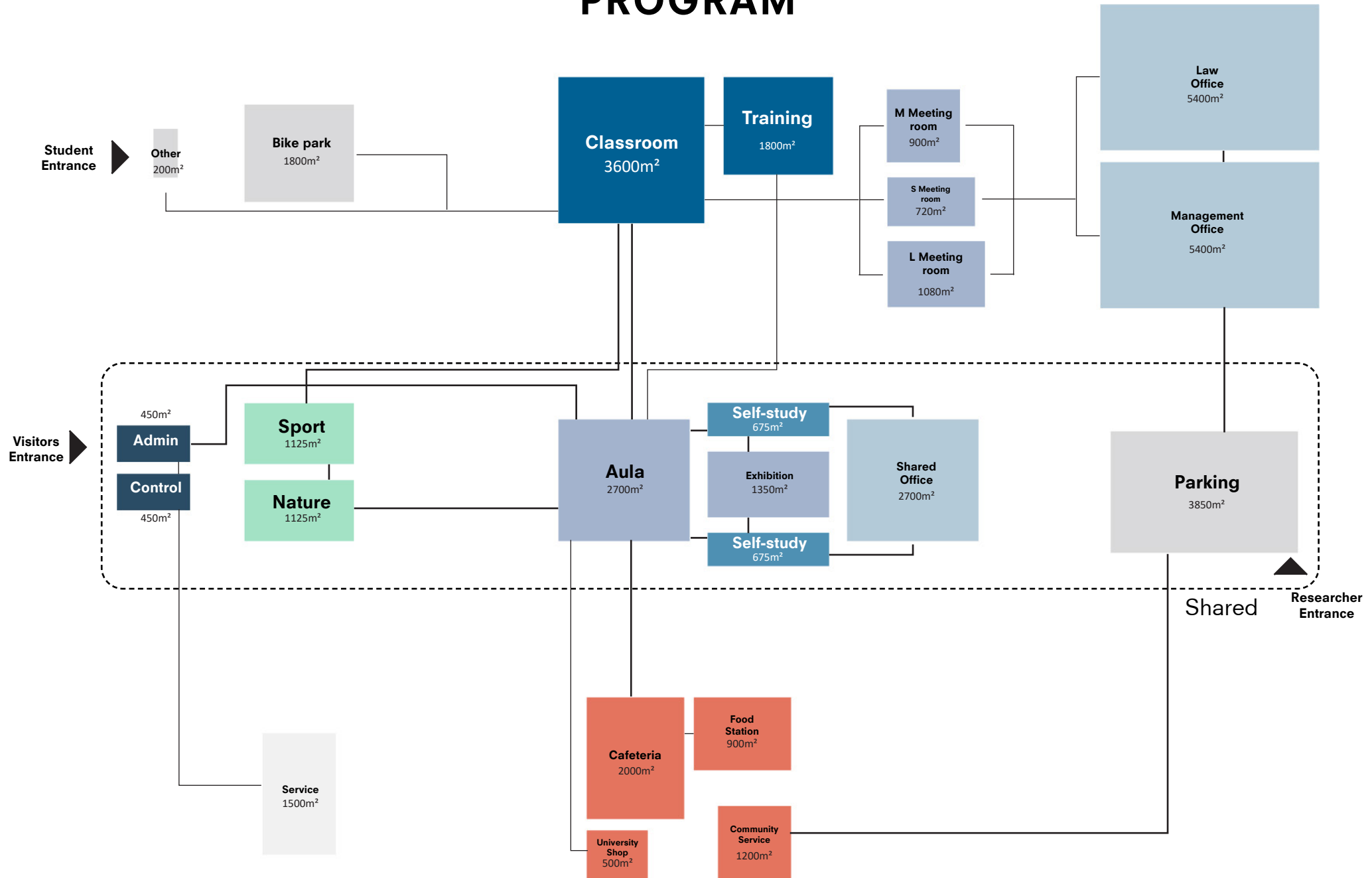
## PROGRAM

Univer-city:  
GFA:  
45000m<sup>2</sup>



Univer-city

# Design Brief PROGRAM

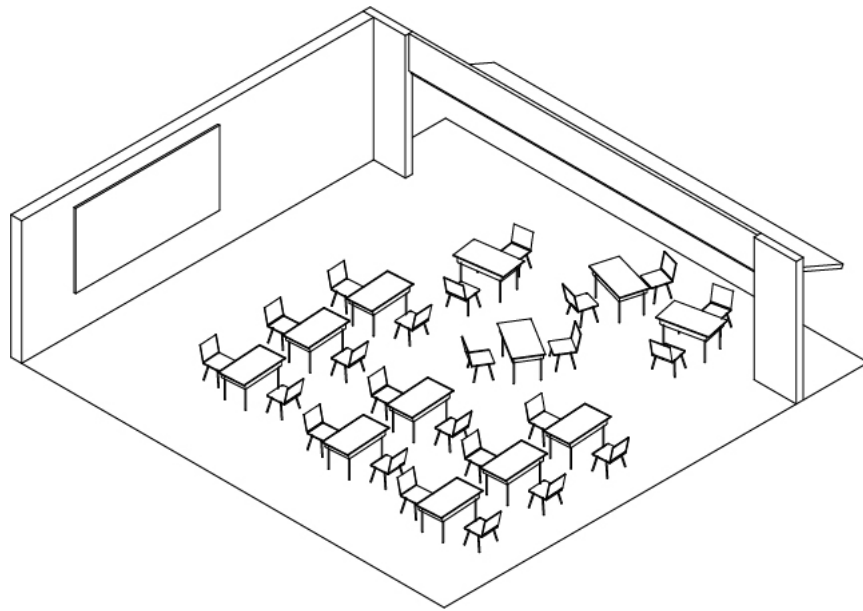




# Design Brief

## PROGRAM

University



### Suggested Typology

Opened Classroom, be able to adjust form/program according to different needs and schedule



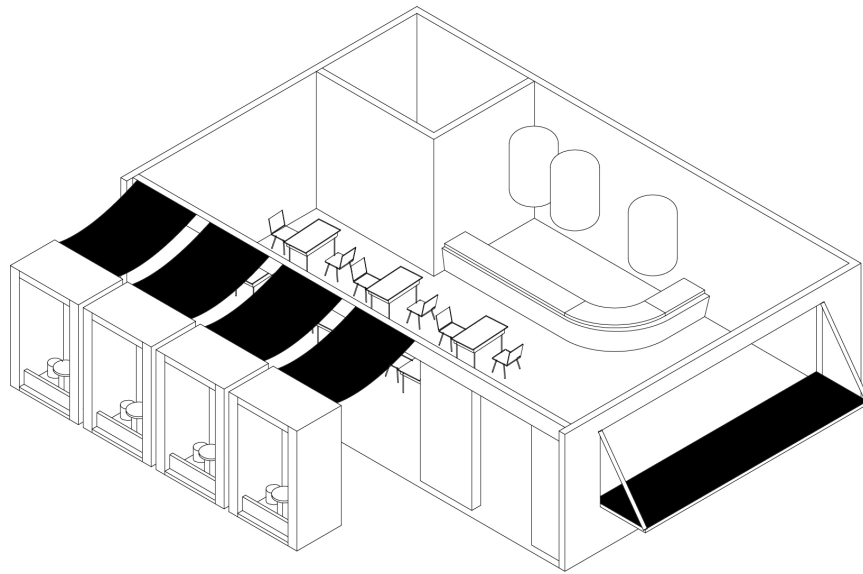
### Suggested Reference

MRN Kindergarten and Nursery  
By Youji no shiro 日比野设计

# Design Brief

## PROGRAM

City



### Suggested Typology

Commercial services are suggested to make usage of the exterior space and create public space for people to meet



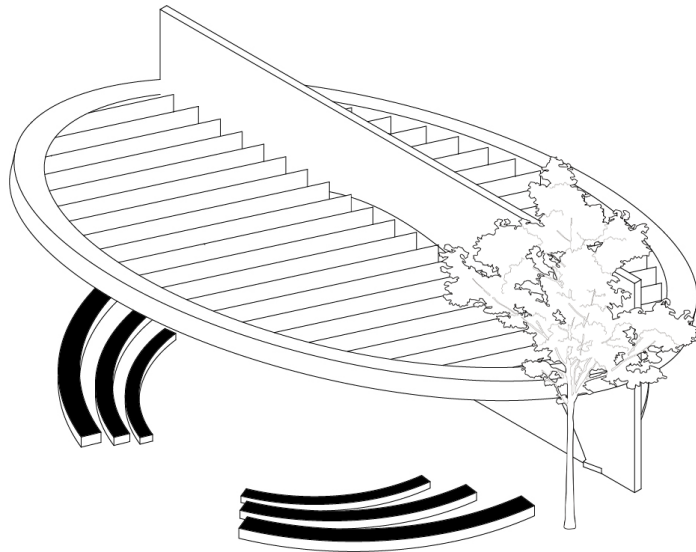
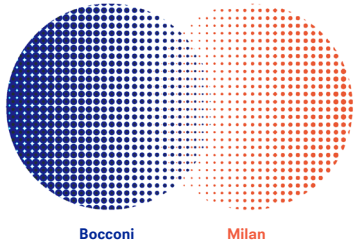
### Suggested Reference

Somthin'else 另有奇物 Shanghai  
By Daylab



# Design Brief

## PROGRAM



### Suggested Typology

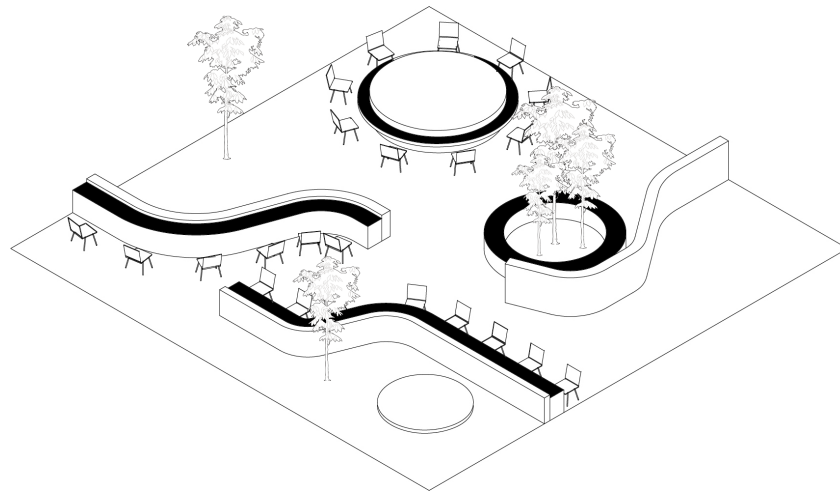
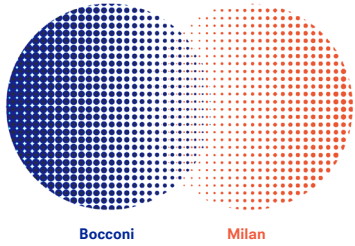
Aula that can not only be used by researchers, but also a place for citizens and companies to participate.



### Suggested Reference

Brain Embassy, Warsaw  
By Mode:lina

# Design Brief PROGRAM



## Suggested Typology

Free space as shared offices or self-study rooms




## Suggested Reference

Second home london office  
By Selgascano

# Design Brief

## CONCLUSION

  
Campus



Blurred Boundaries  
Between Students &  
Teachers

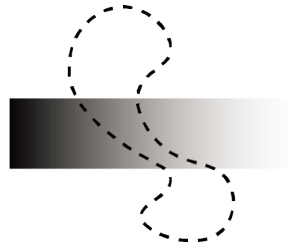


Nature & Sports



More self-study  
Keep the Office

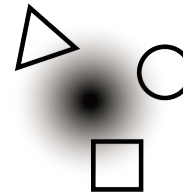
  
Public



Blurred Boundaries  
Between Private &  
Public



Events (& space) for  
everyone

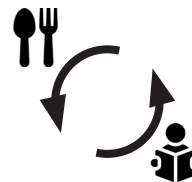


Centered Public  
Space

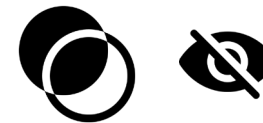
  
City



Blurred Boundaries  
Between Campus &  
City



Flexible or  
Transformable  
Space



Transparent &  
Private

## Key Ambition



Introduction

Design Brief

**[Design]**

Materialization

Conclusion

Design

# GENERAL CONCEPT

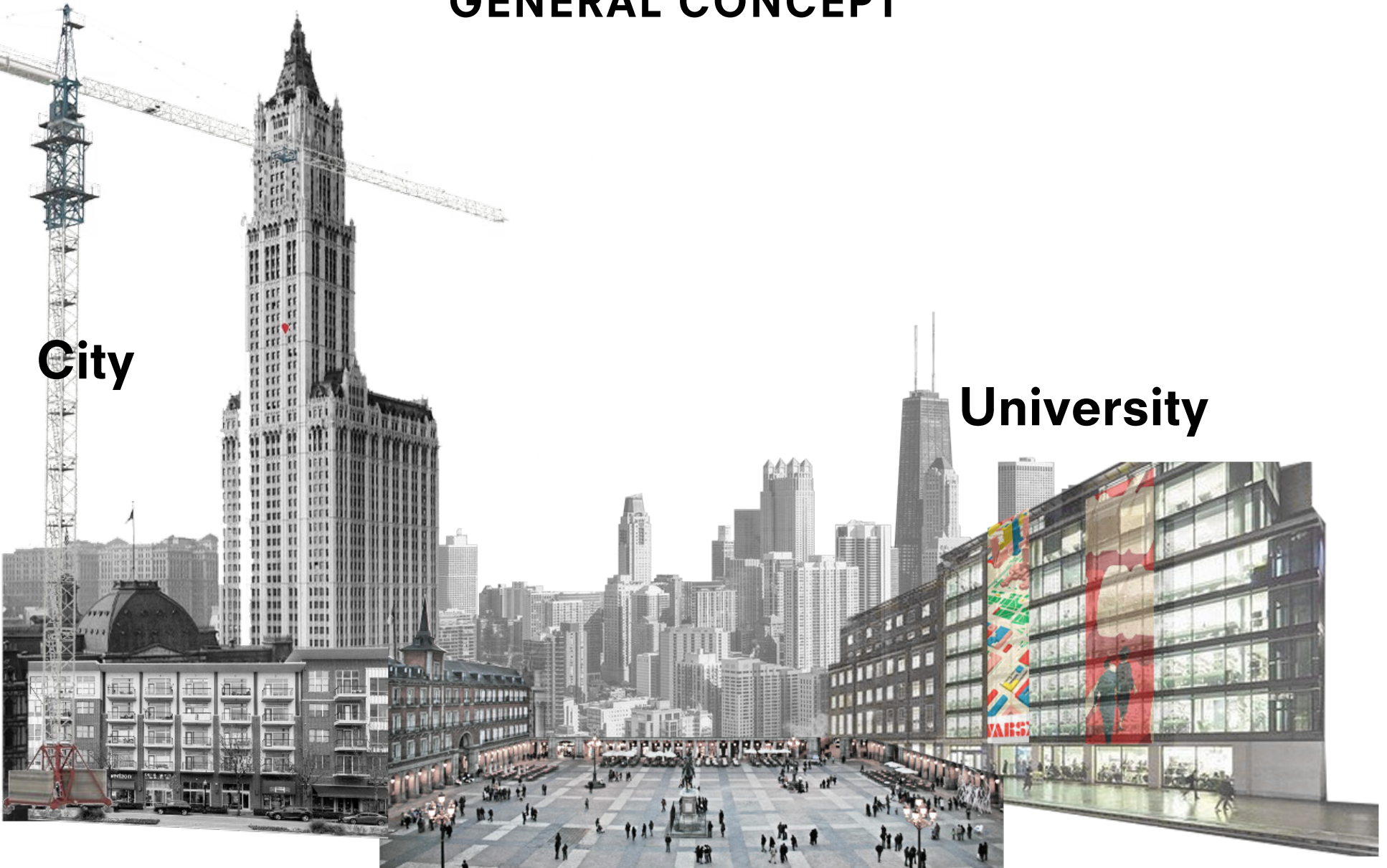
## University



# GENERAL CONCEPT

City

University



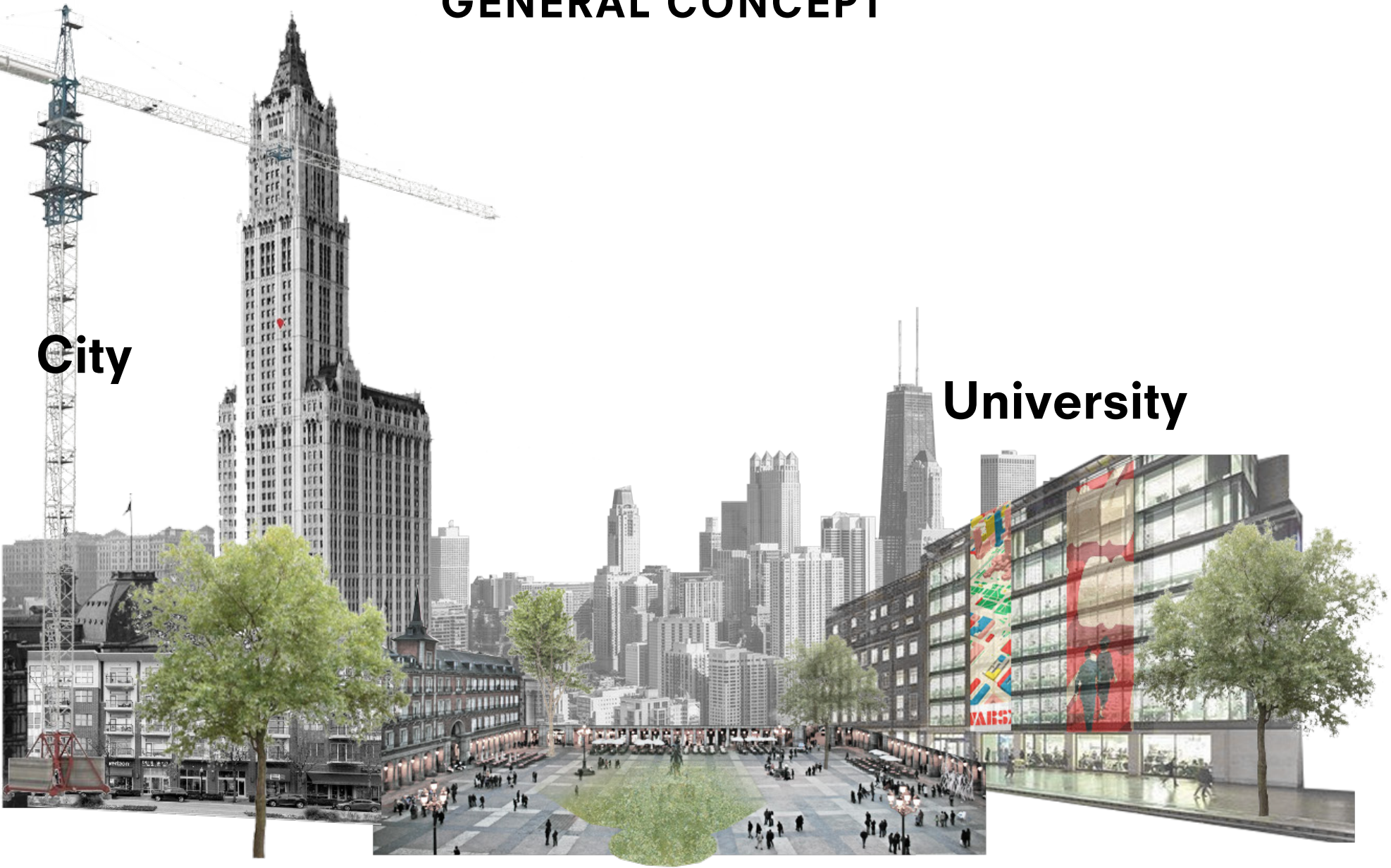


# GENERAL CONCEPT

City

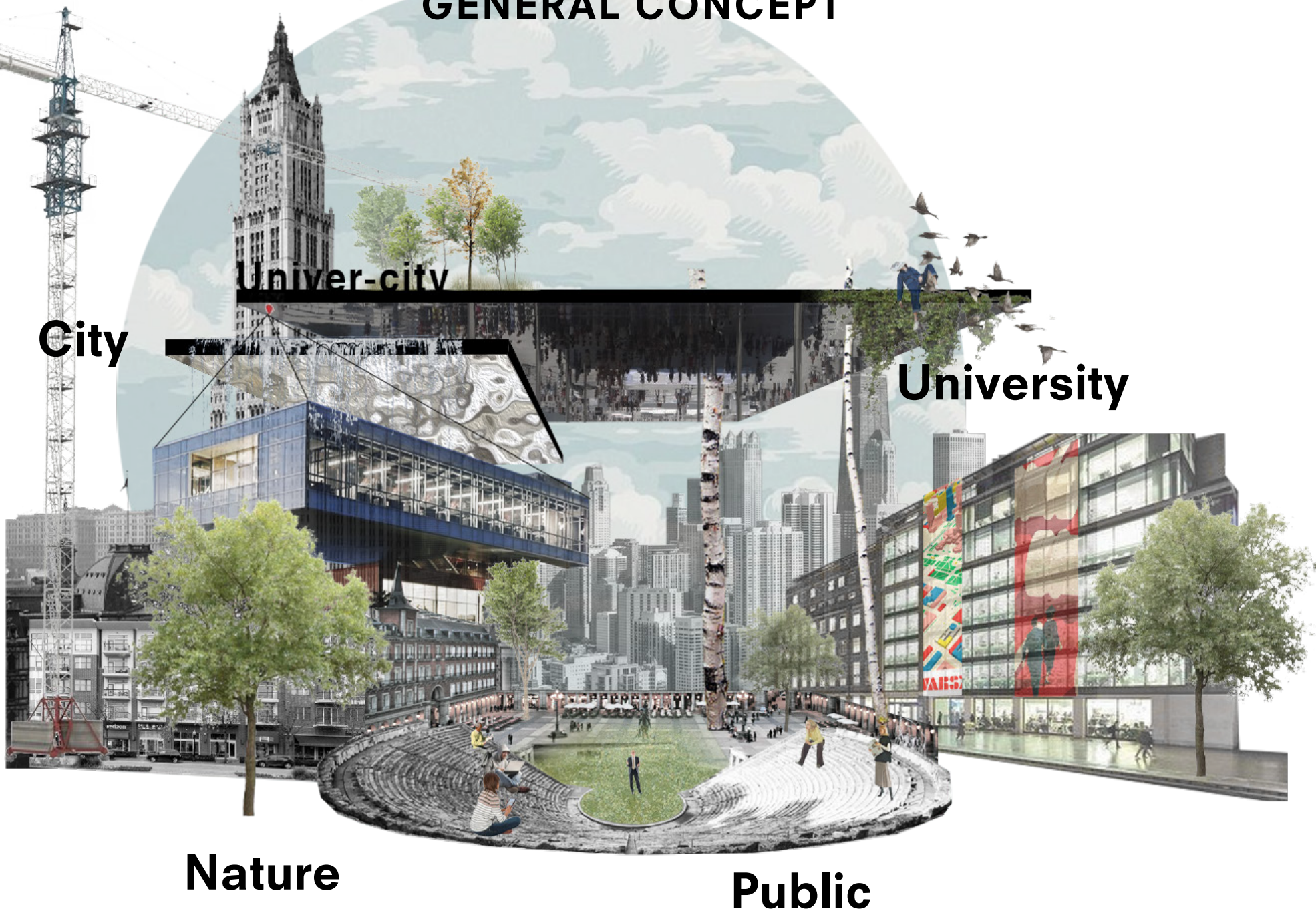
University

Nature

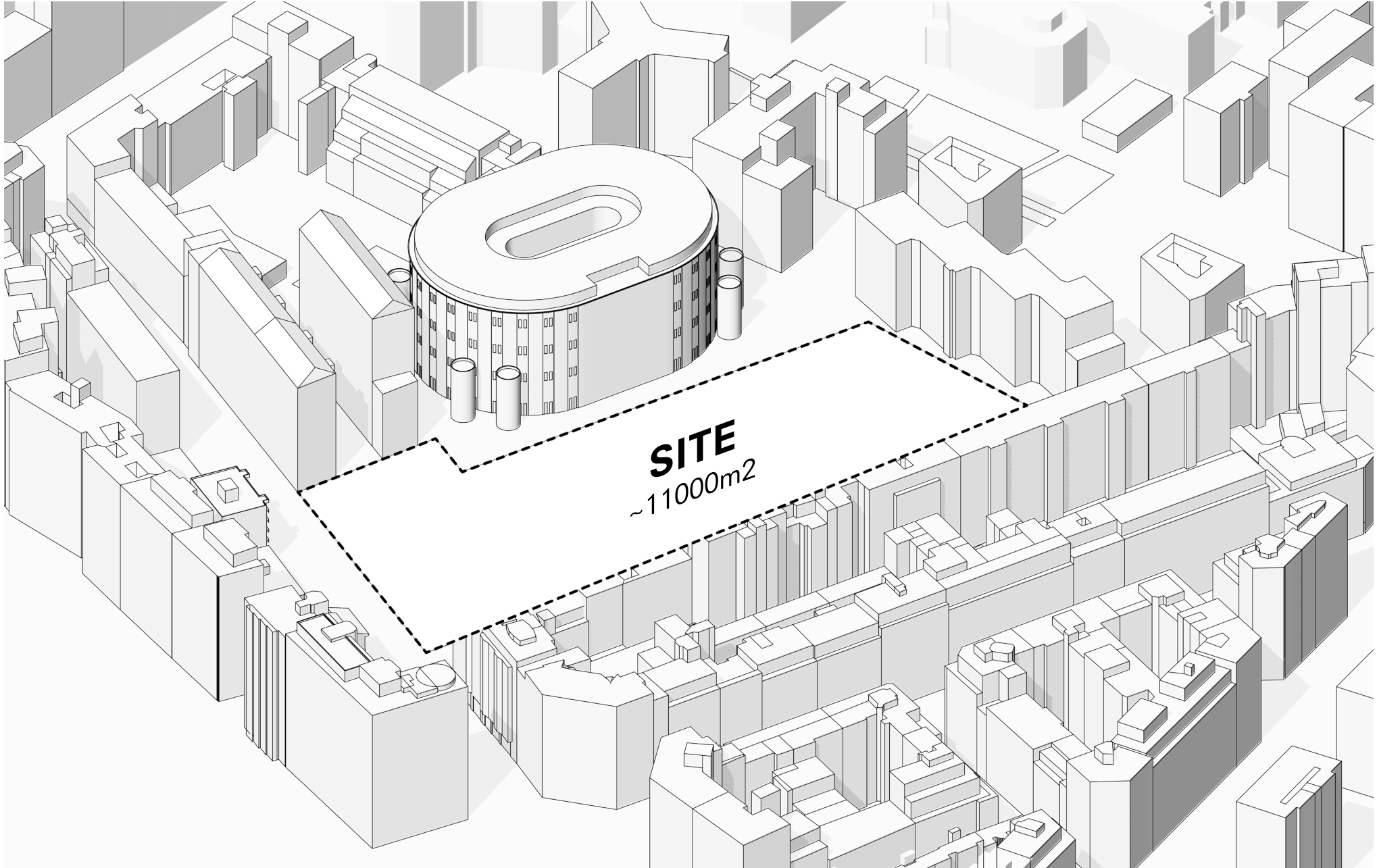




# GENERAL CONCEPT



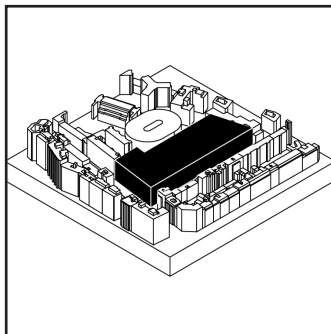
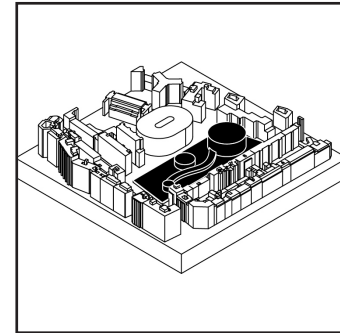
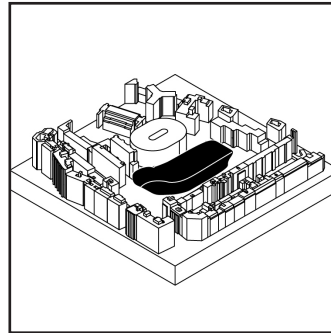
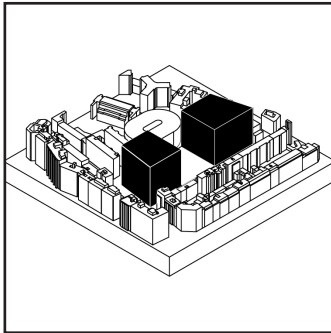
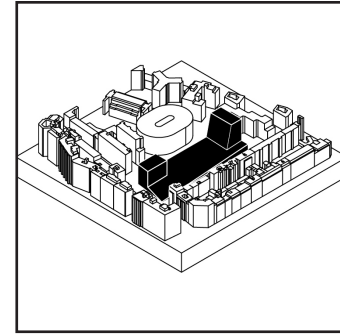
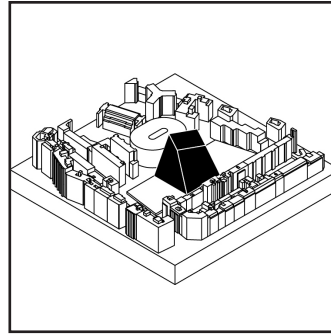
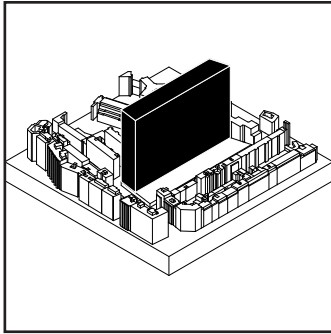
# MASSING DESIGN CONCEPT



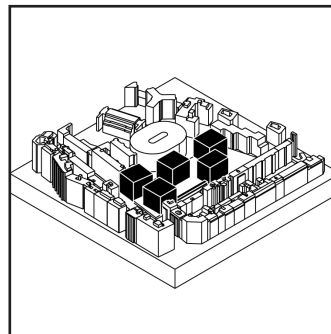


Design

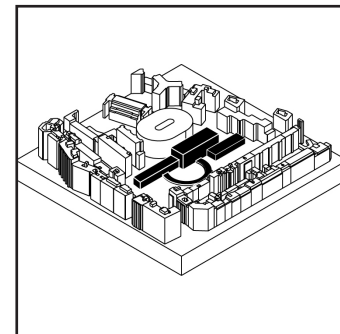
# MASSING SIZE CONCEPT



**Max GFA**  
**FAR 5.0-6.0**



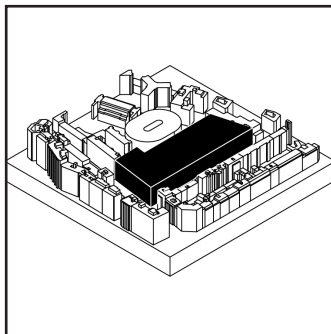
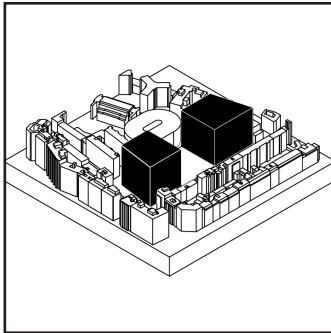
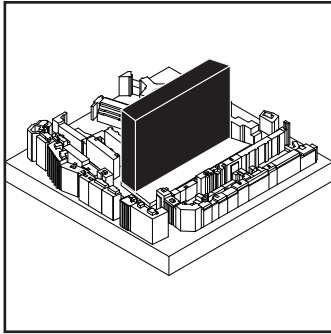
**Mid GFA**  
**FAR 3.0-4.0**



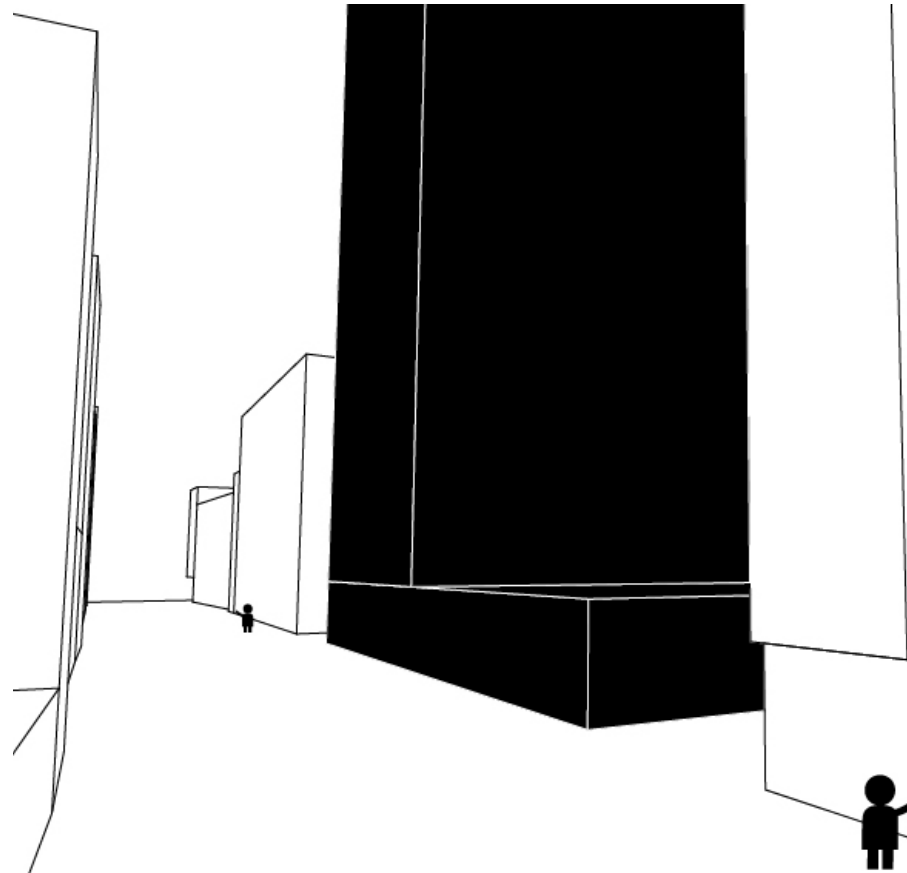
**Min GFA**  
**FAR 1.0-2.0**

Design

# MASSING SIZE CONCEPT



**Max GFA**  
**FAR 5.0-6.0**



## Pros

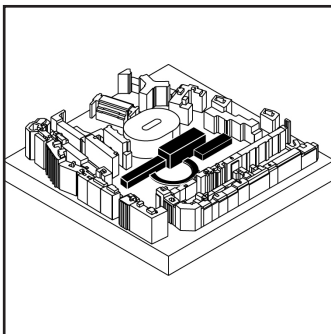
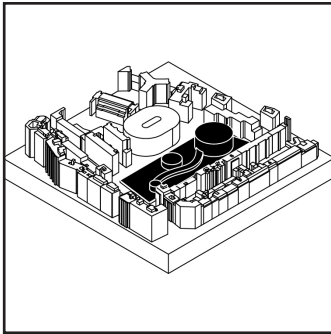
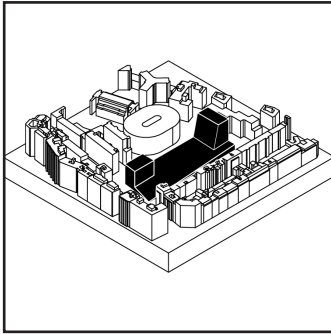
- Abundant Area
- Efficient

## Cons

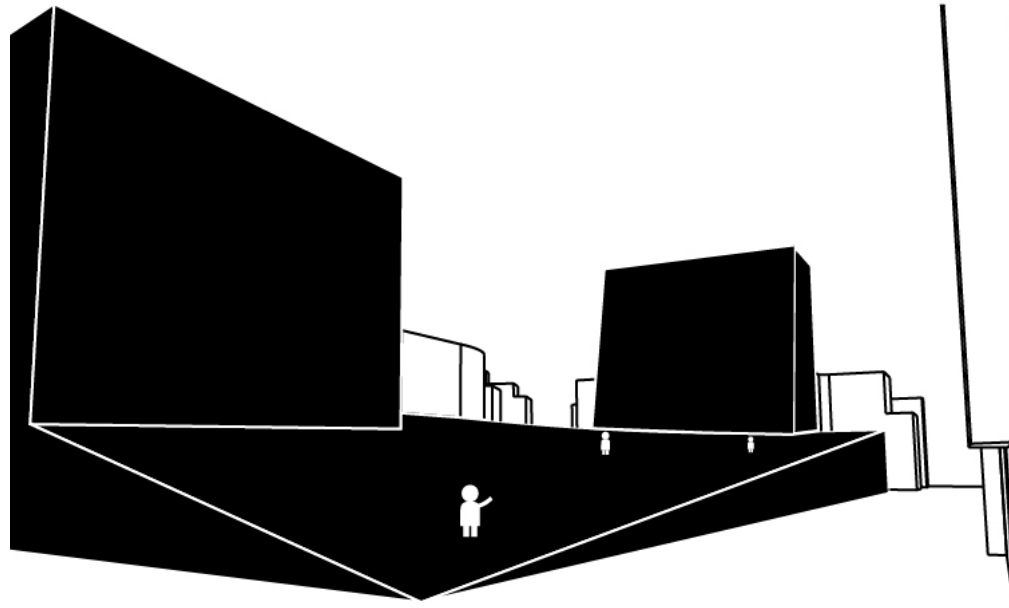
- Block Views
- Block Sunshine
- Hard to Access

Design

# MASSING SIZE CONCEPT



**Min GFA**  
**FAR 1.0-2.0**



## Pros

- Easy to Access
- Great Visual Connection
- Plenty of sunshine
- Public space

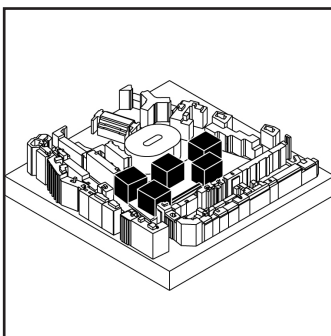
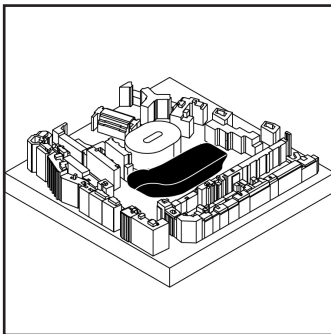
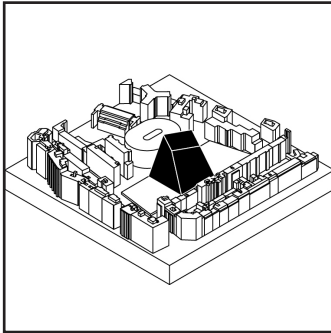
## Cons

- Insufficient Floor Area
- Low efficiency
- Too much sun

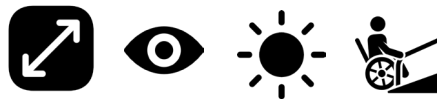
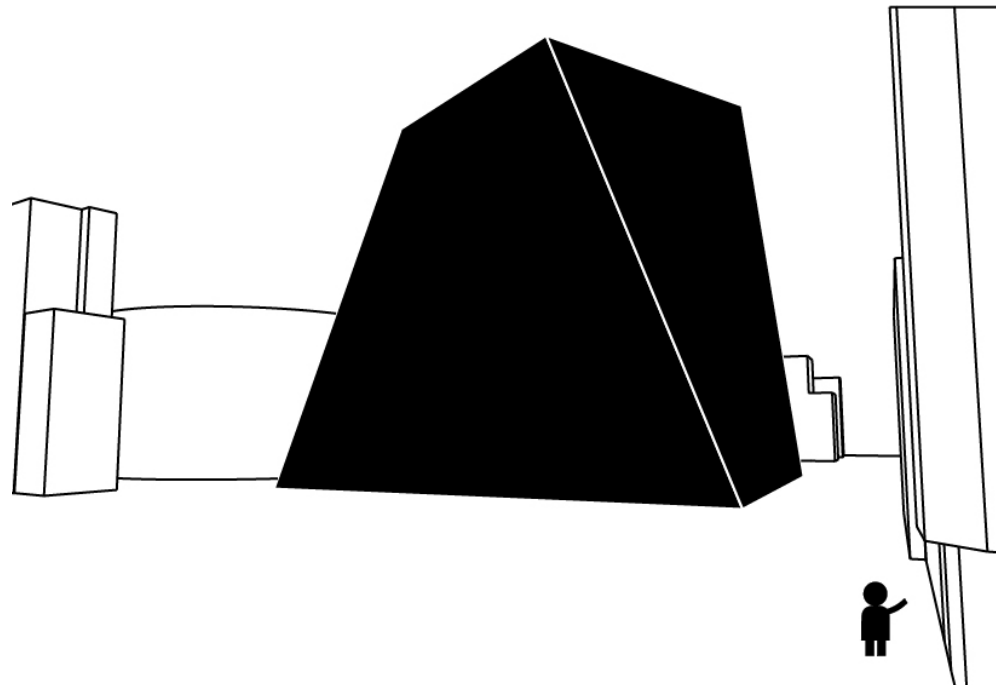


Design

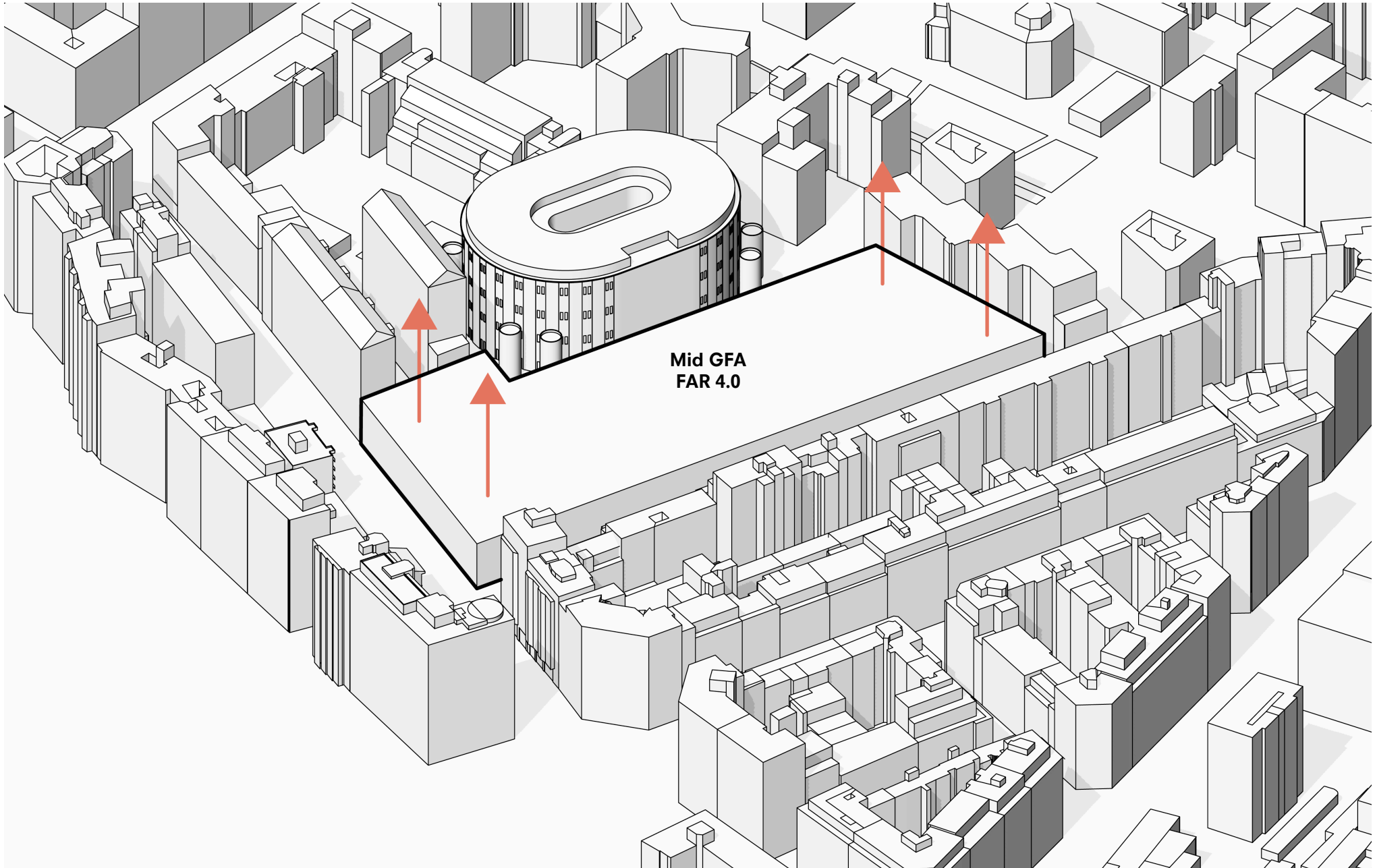
# MASSING SIZE CONCEPT



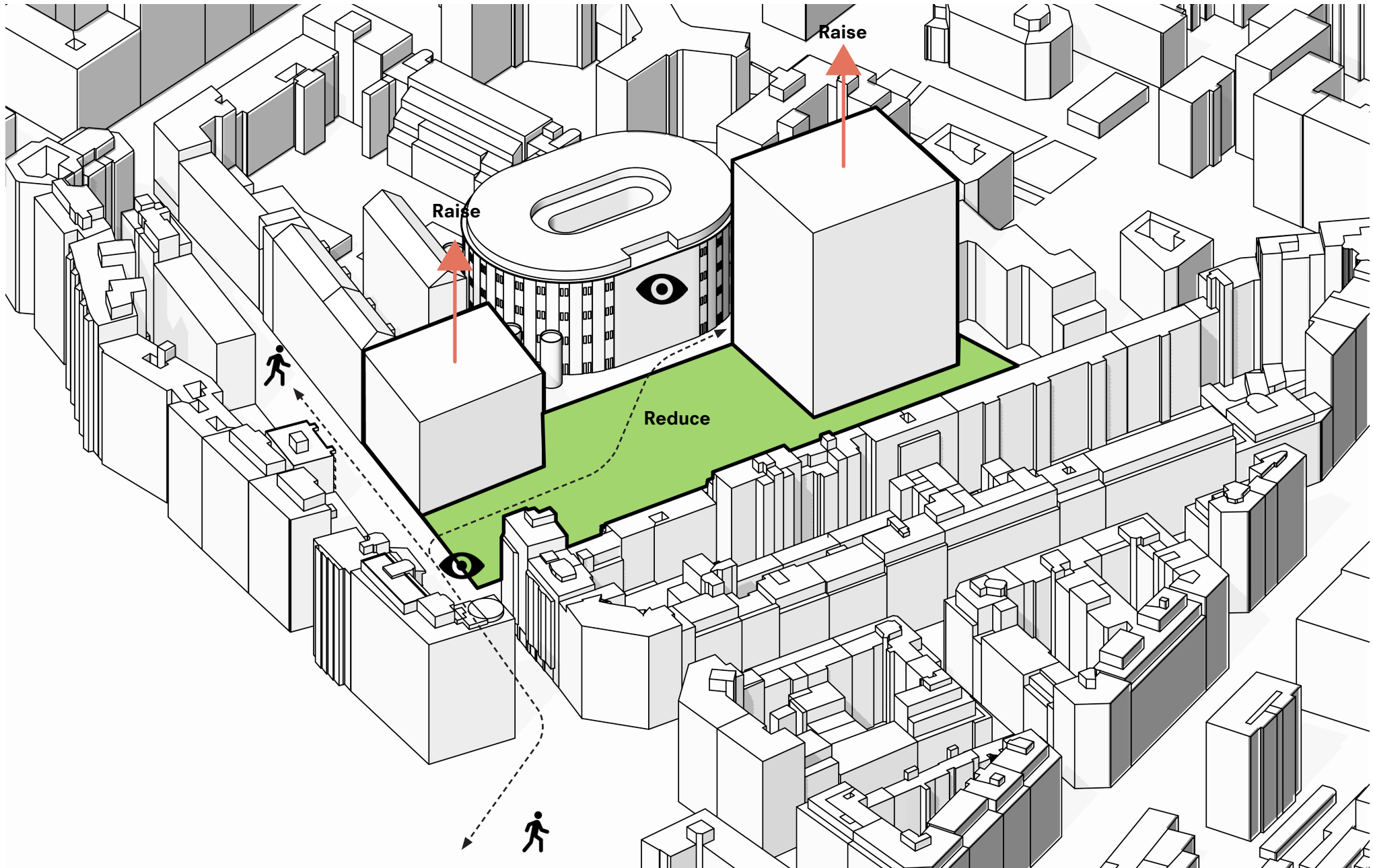
**Mid GFA  
FAR 3.0-4.0**



# MASSING DESIGN CONCEPT

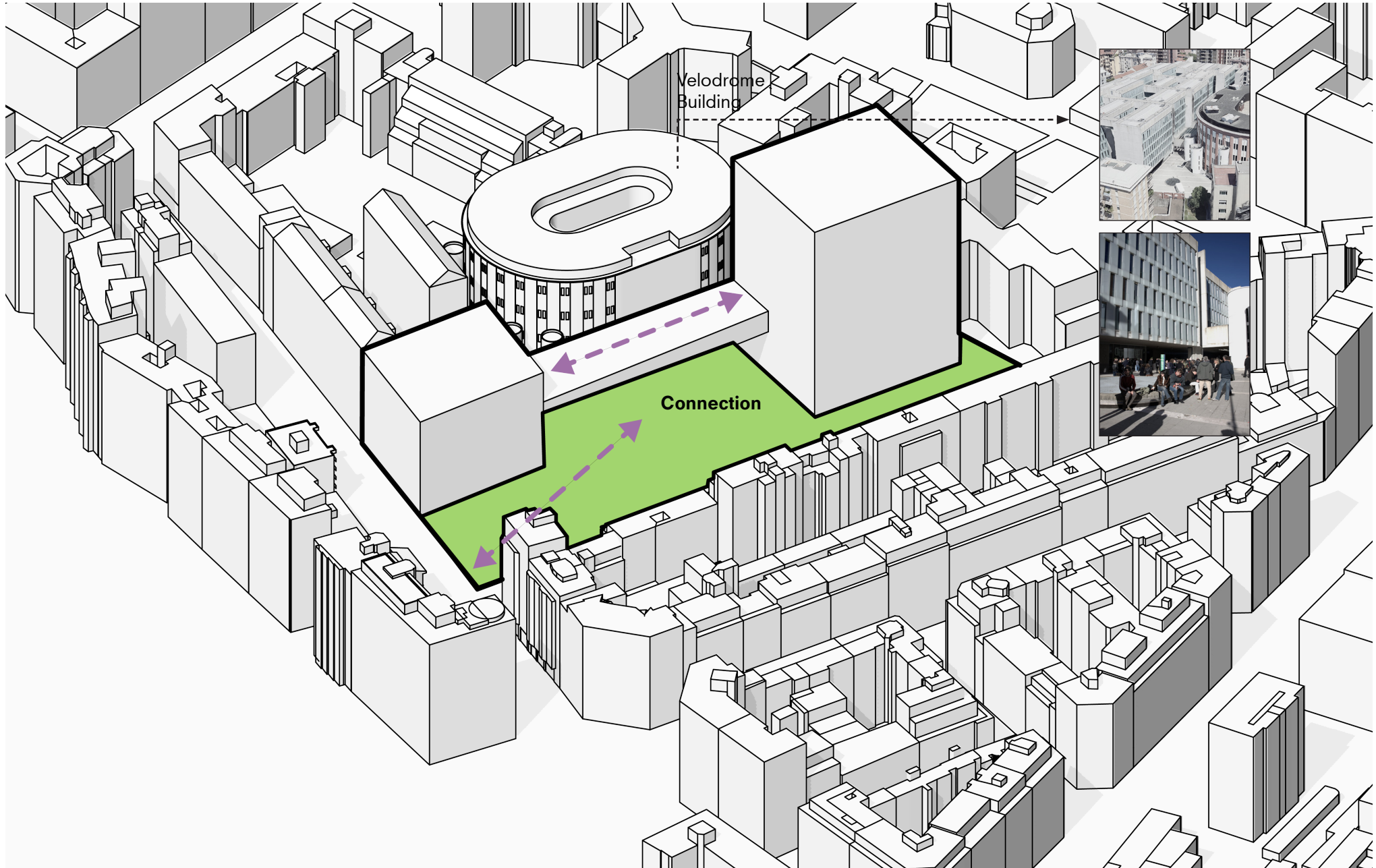


# MASSING DESIGN CONCEPT

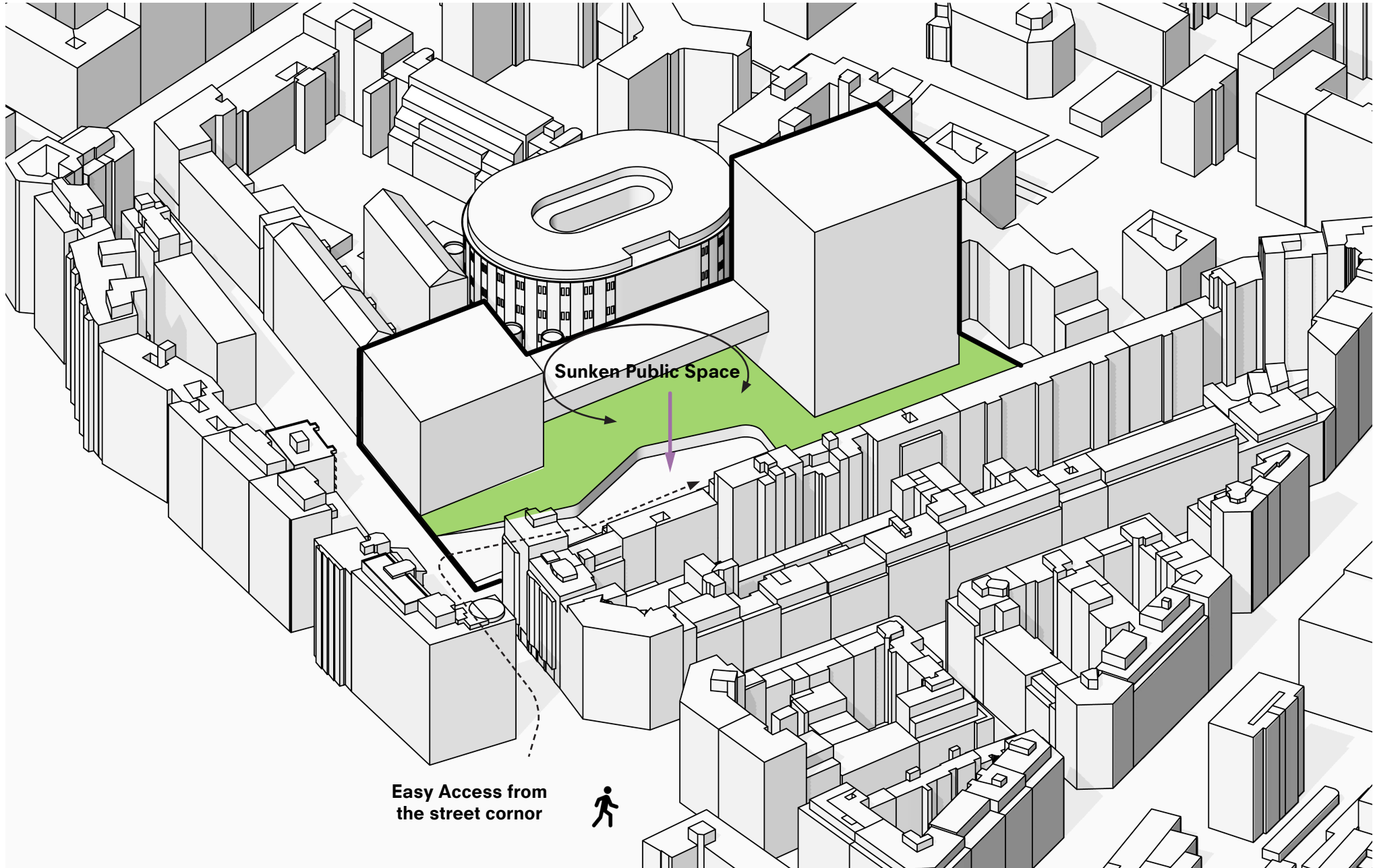




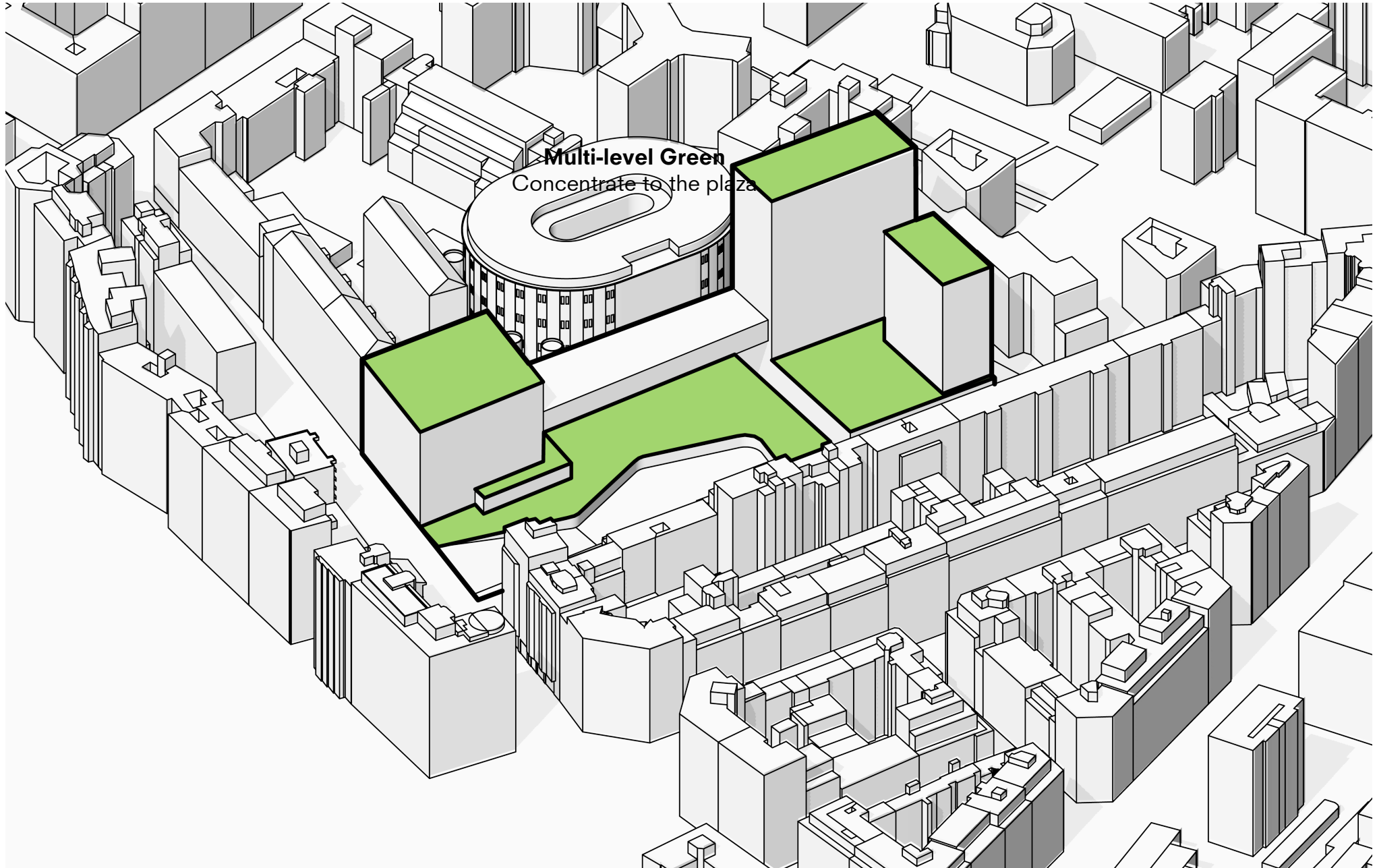
# MASSING DESIGN CONCEPT



# MASSING DESIGN CONCEPT



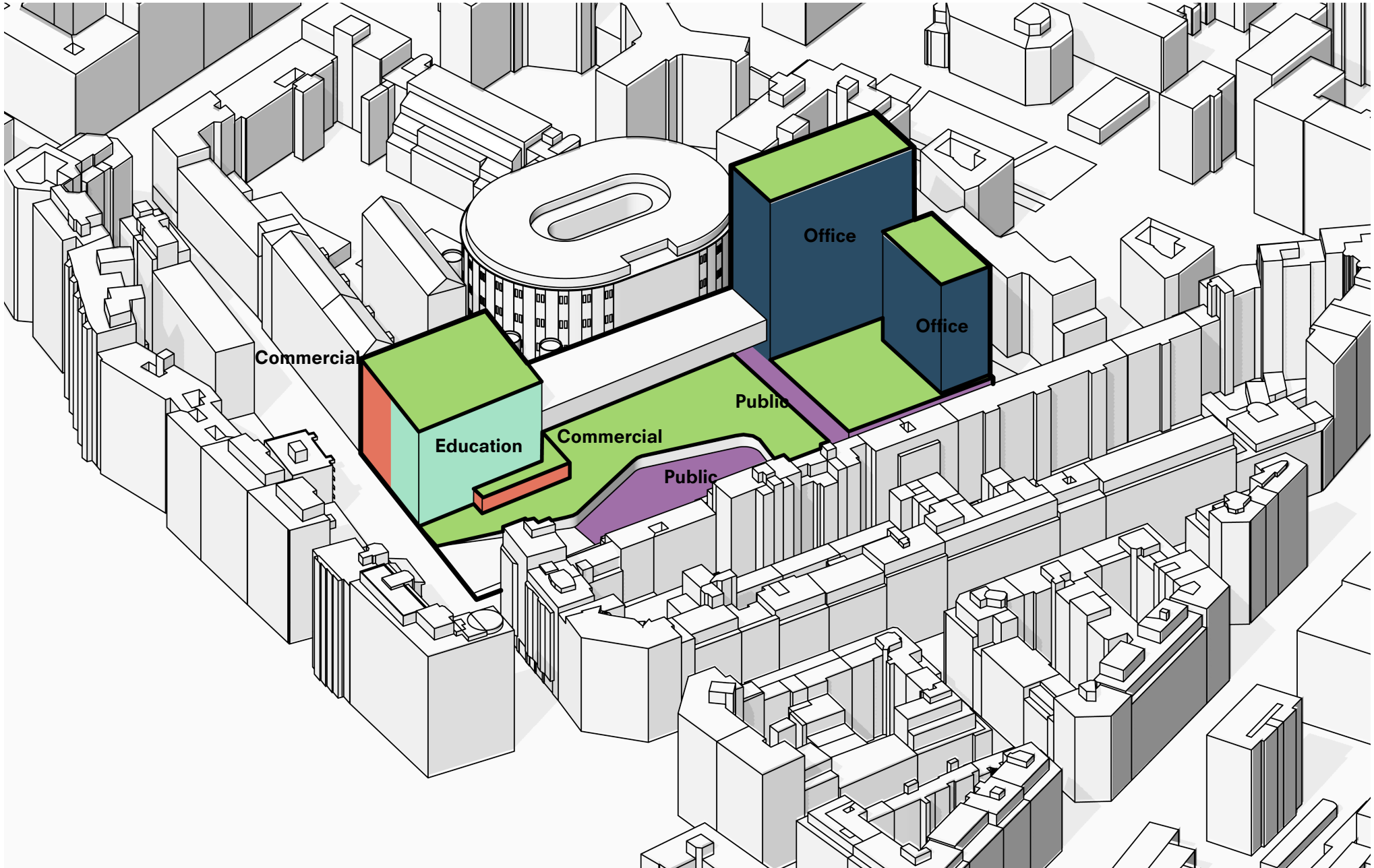
# MASSING DESIGN CONCEPT





Design

# PROGRAM





# DESIGN

- PLAN
- ELEVATION
- SECTION
- PERSPECTIVE



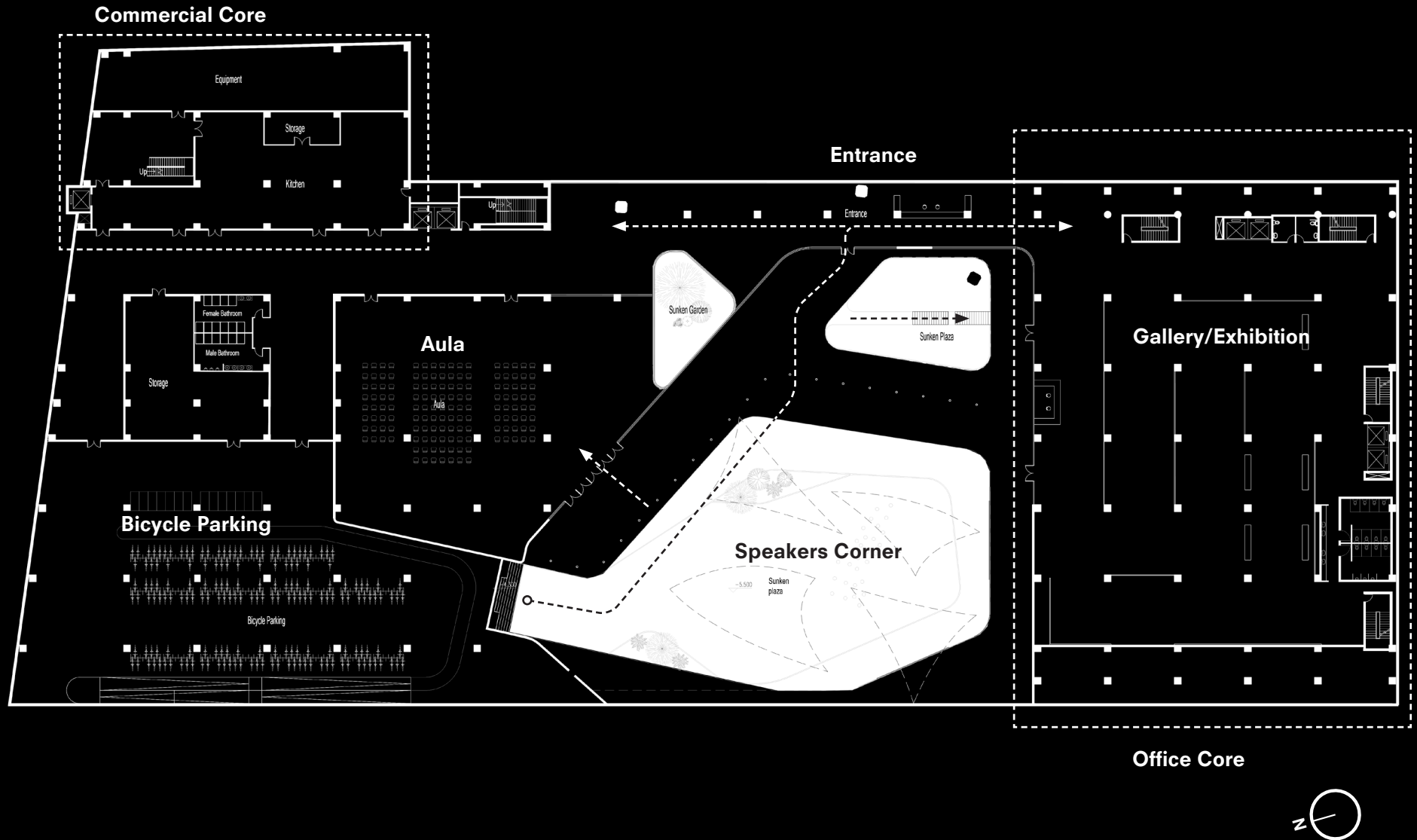
Design

# BASEMENT 1 PERSPECTIVE

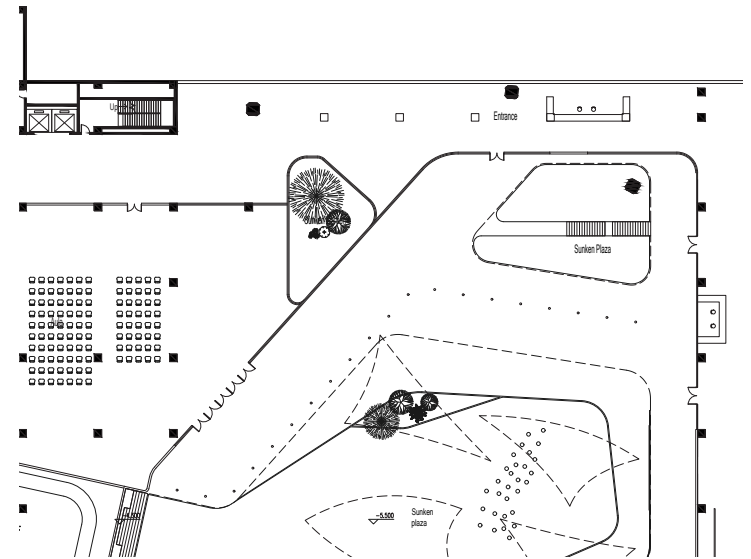
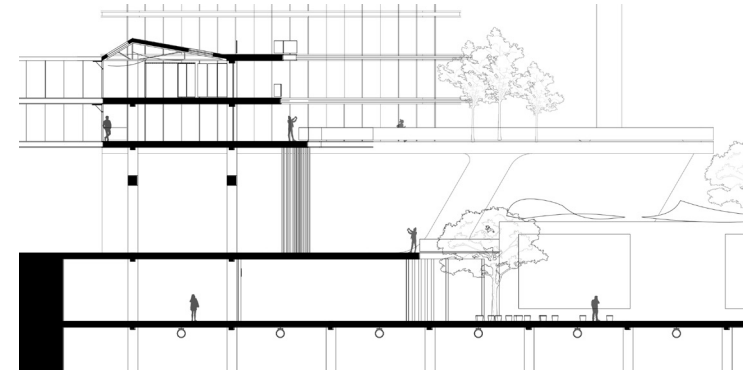




# BASEMENT 1 FLOOR PLAN



# BASEMENT 1 FLOOR PLAN



Visual connection



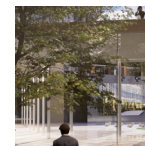
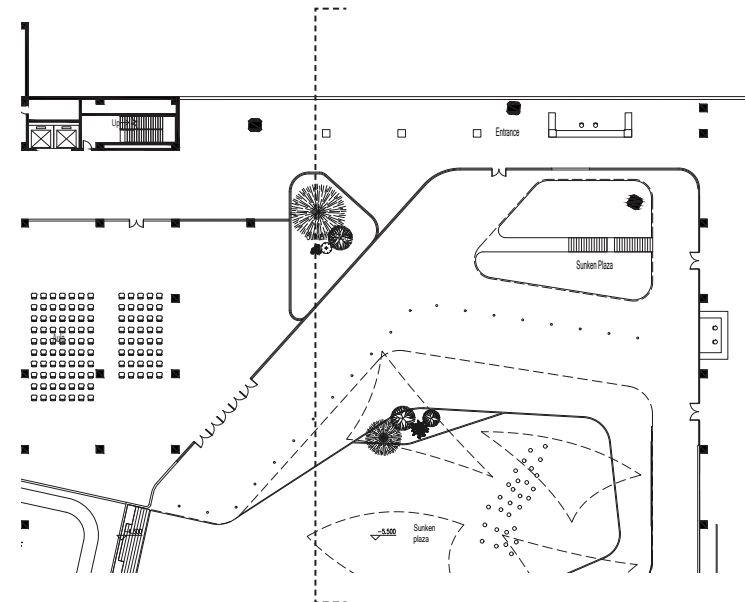
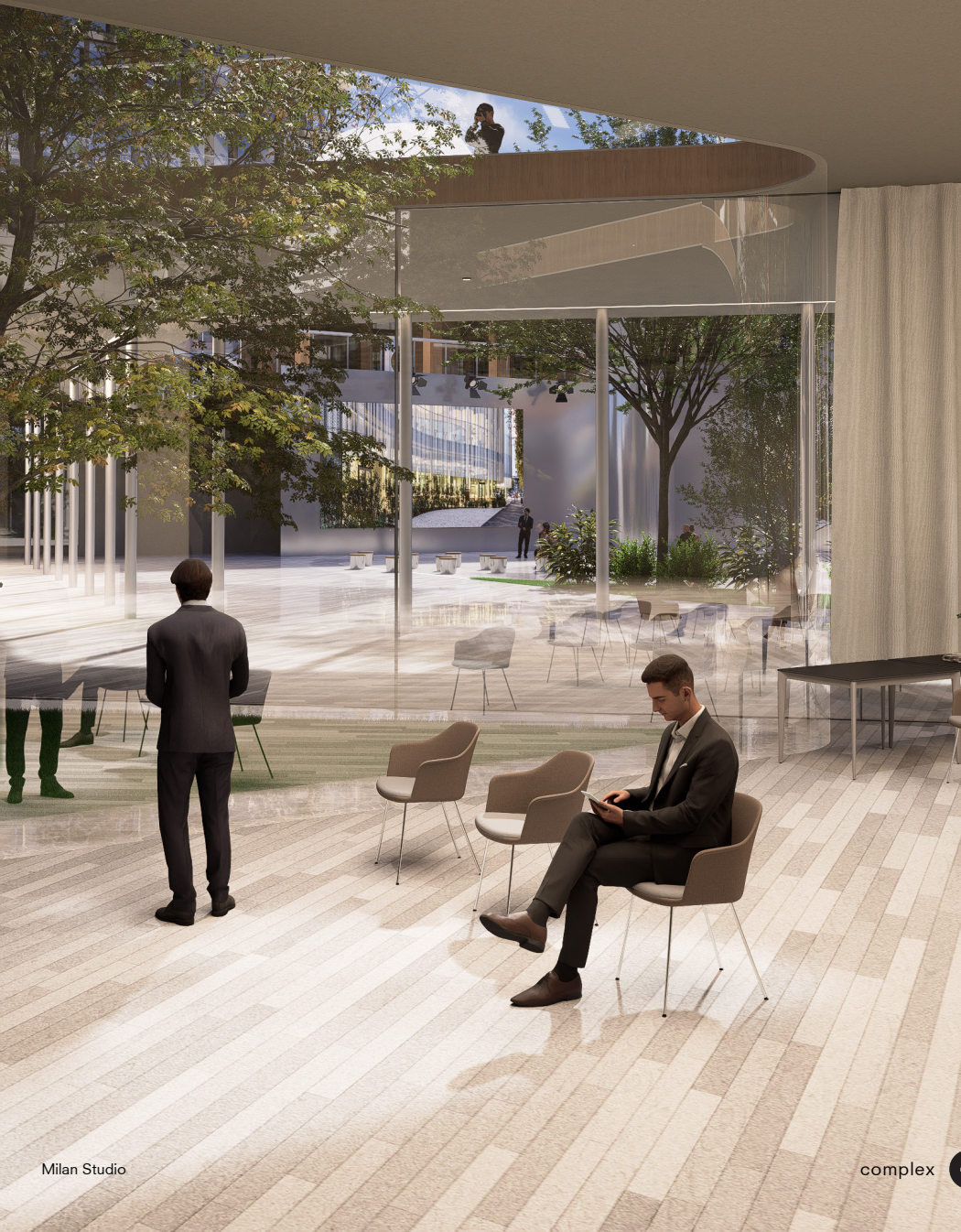
Natural light



Recycled material



# BASEMENT 1 FLOOR PLAN



Nature



Transparency



Multi-level



Design

# GROUND FLOOR PERSPECTIVE



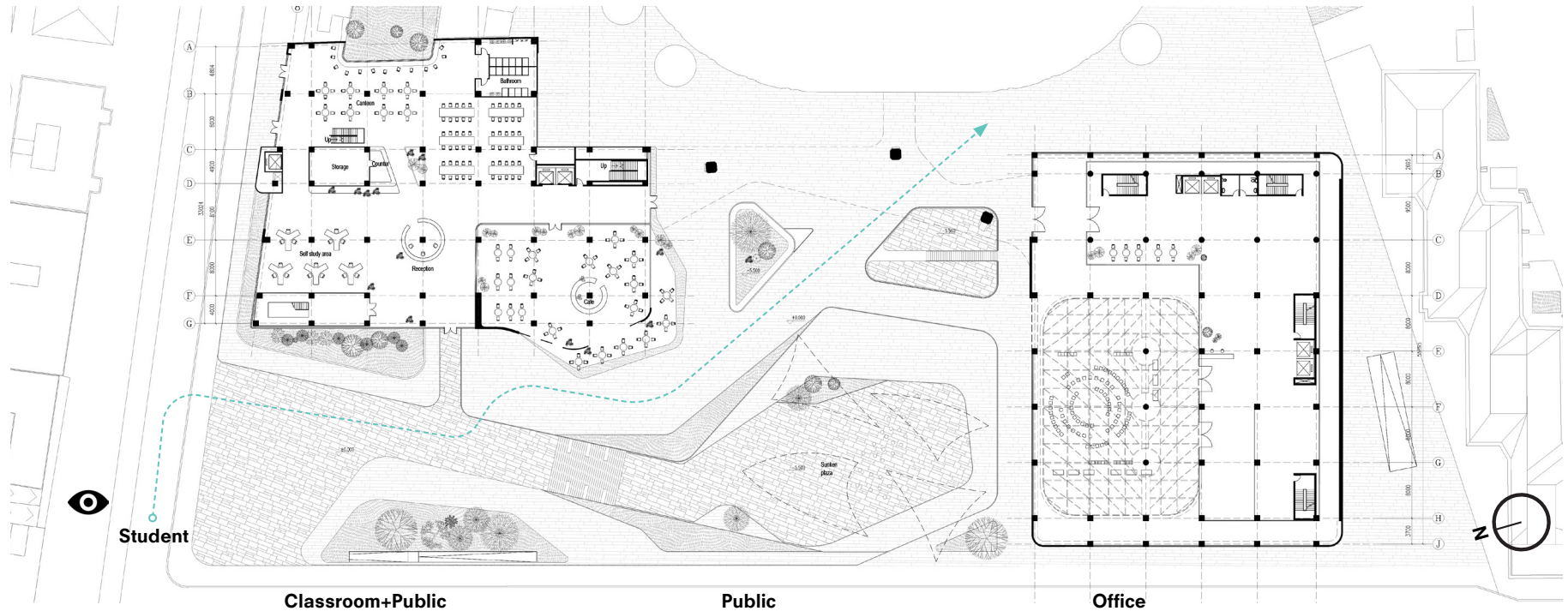
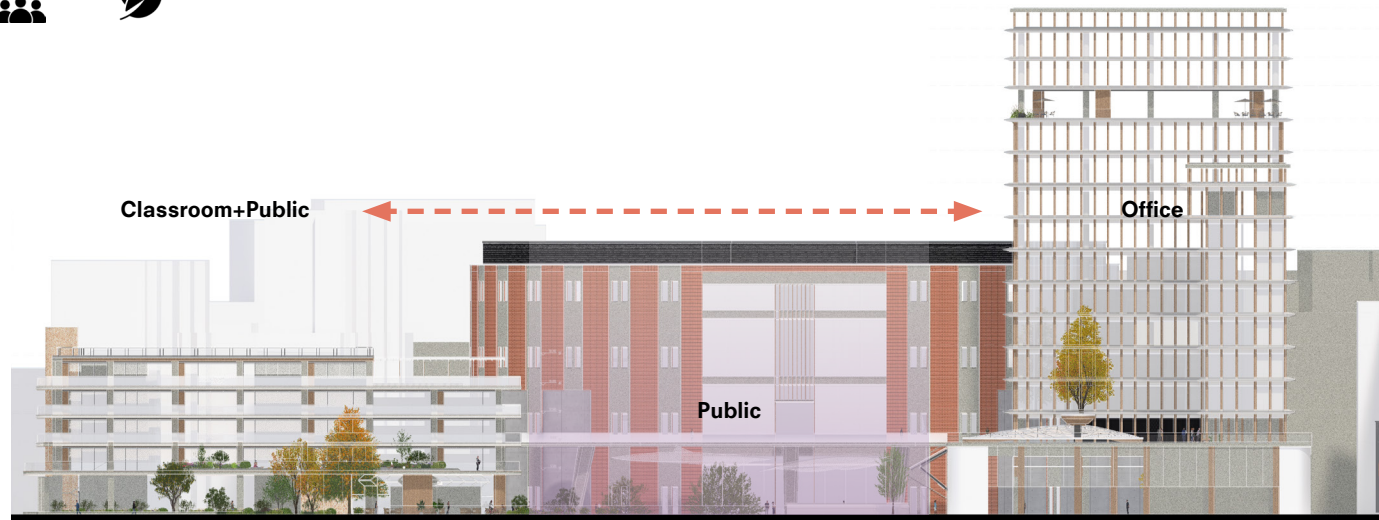


# Design

## GROUND FLOOR PLAN

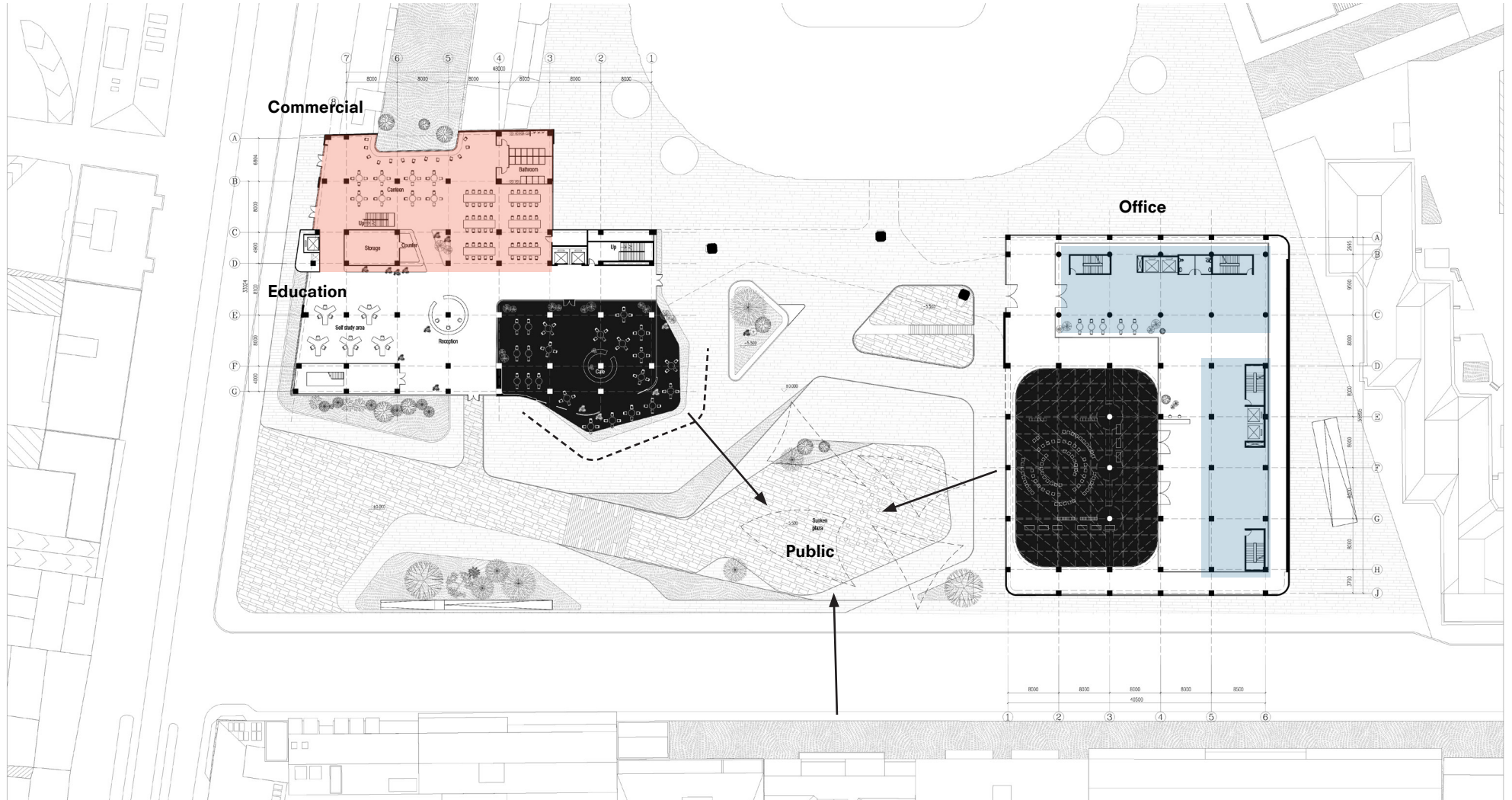


1. View
2. Dining
3. Meeting
4. Nature



Design

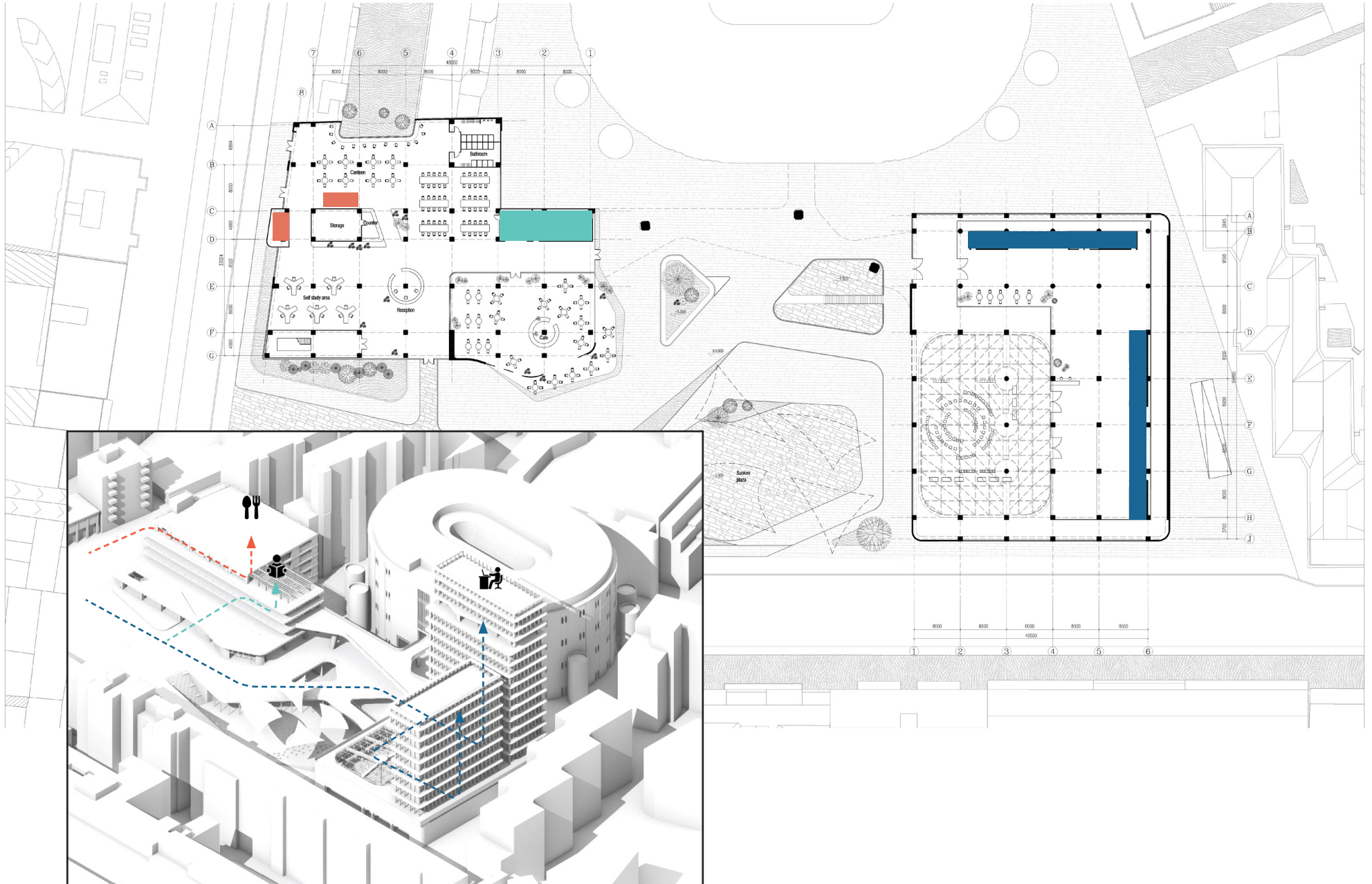
# GROUND FLOOR PLAN





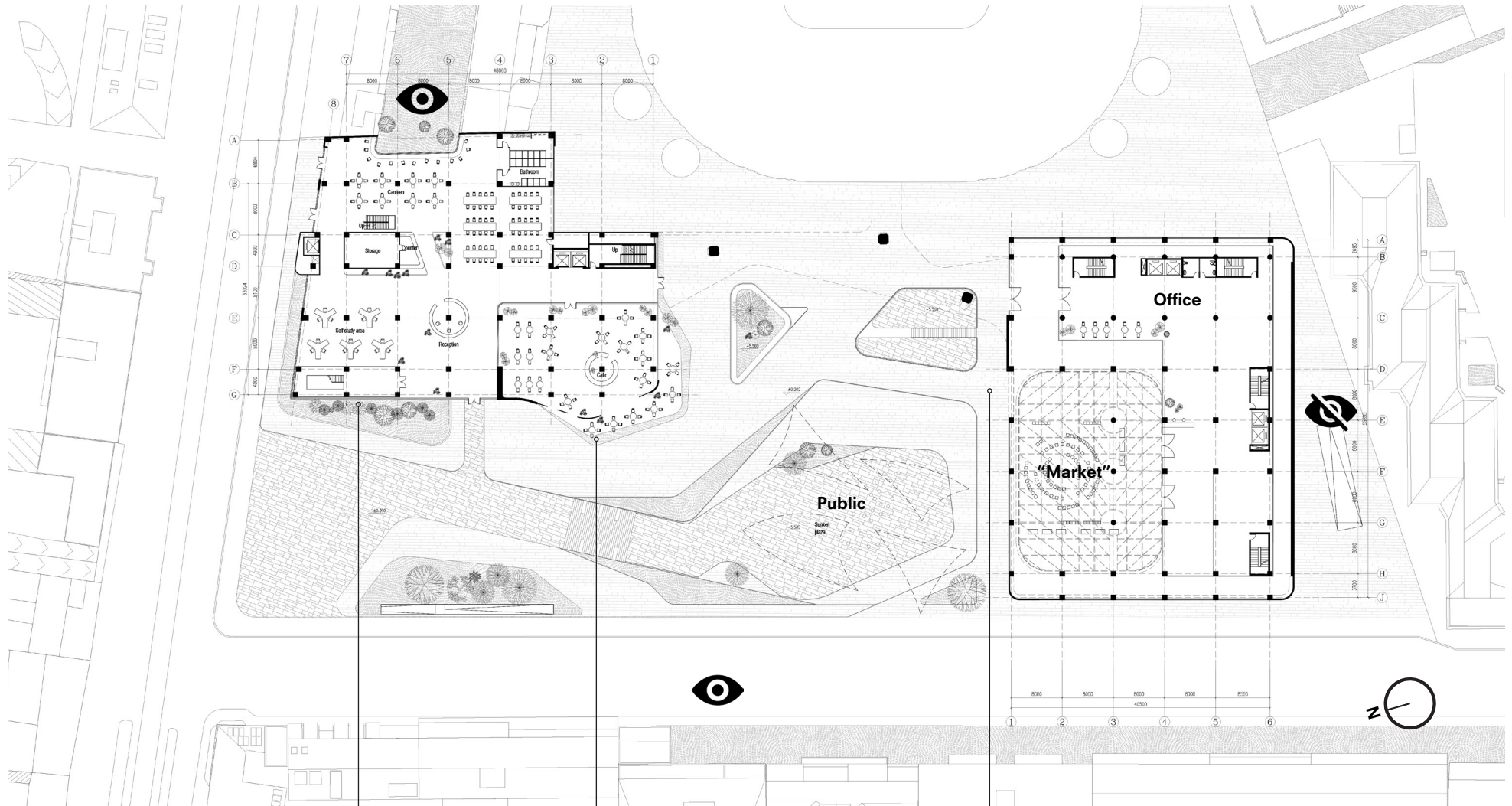
# Design

## GROUND FLOOR PLAN

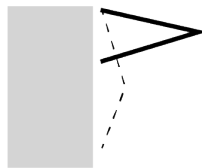
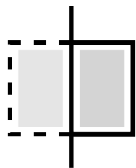


# Design

## GROUND FLOOR PLAN



Boundaries Type





Design

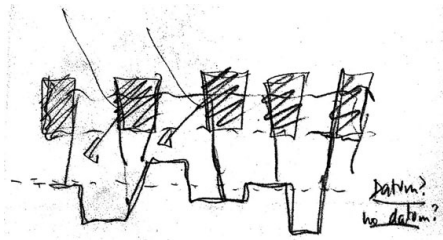
# GROUND FLOOR PLAN



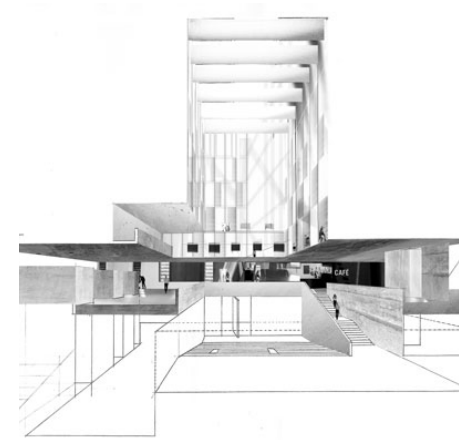


Design

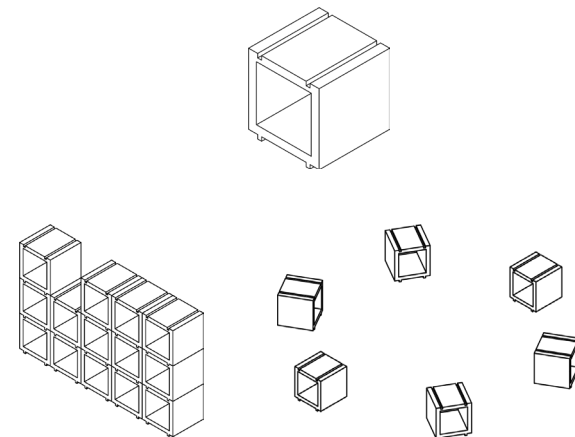
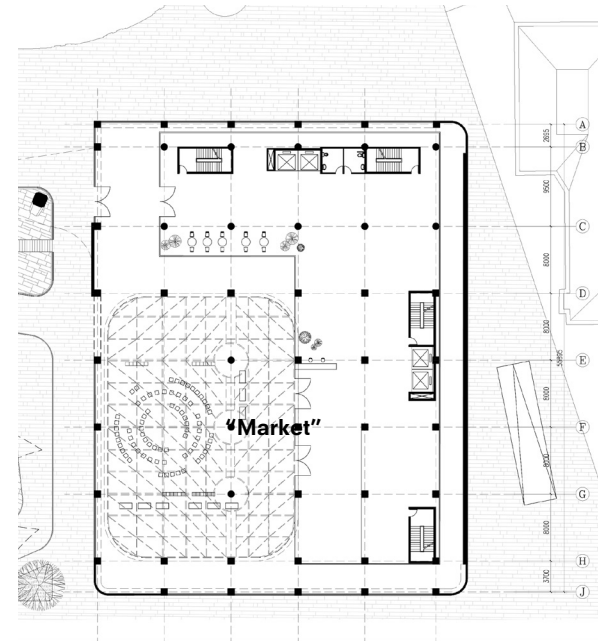
# GROUND FLOOR PLAN



**"Market"**



# GROUND FLOOR PLAN

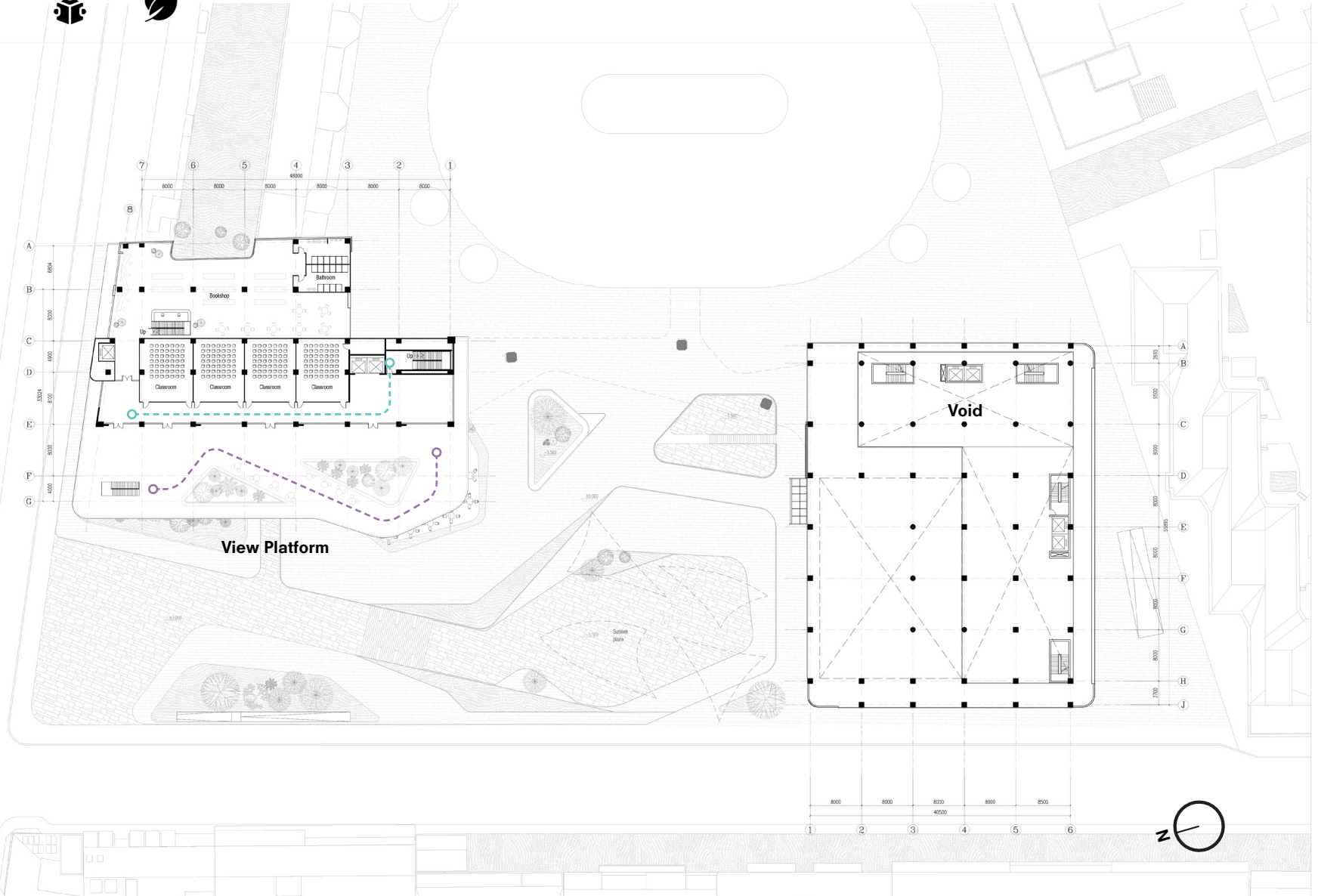




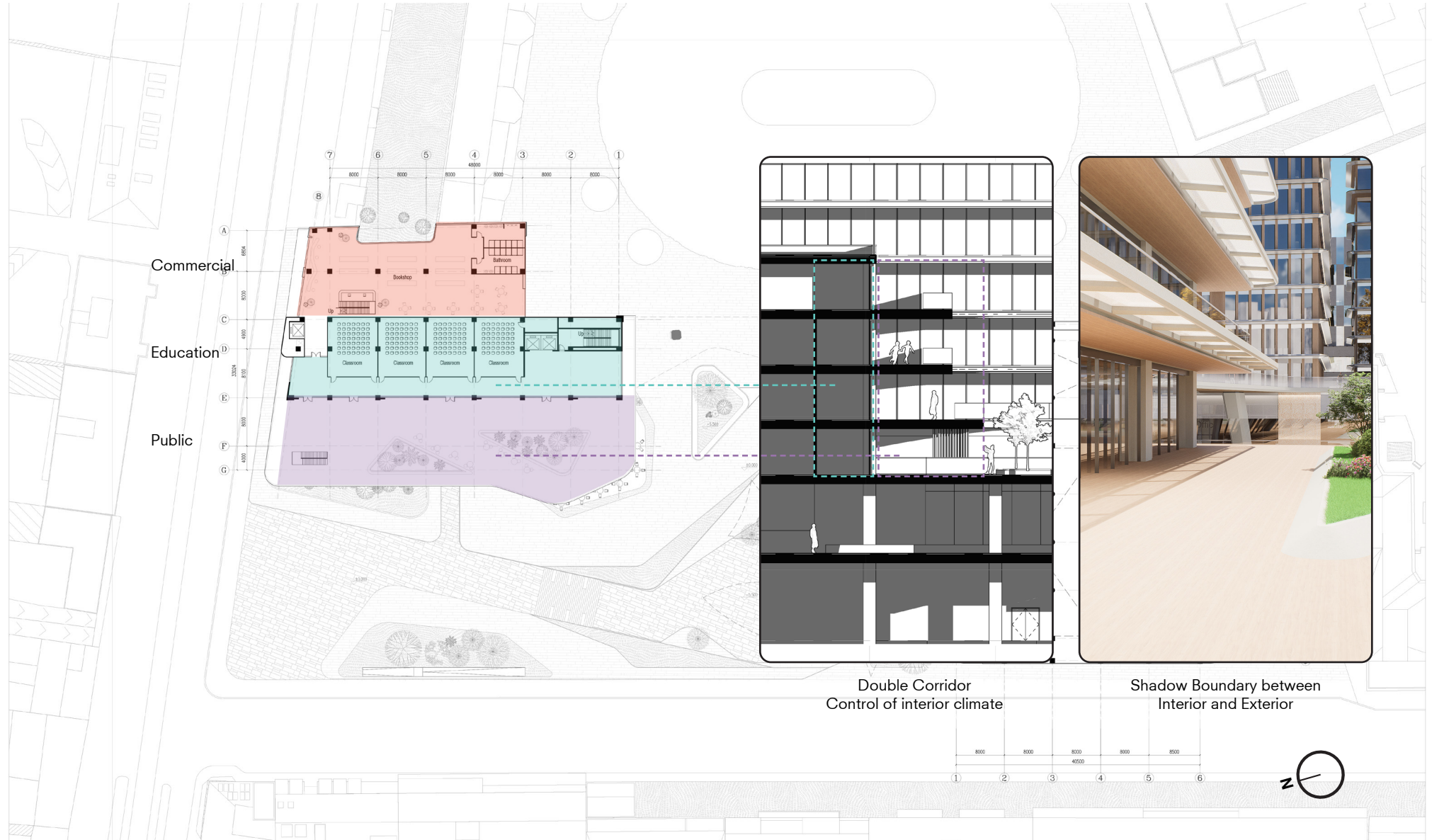
# Design FIRST FLOOR PLAN



- 1.View
- 2.Shop
- 3.Study
- 4.Nature



# Design FIRST FLOOR PLAN





Design

# SECOND FLOOR PLAN



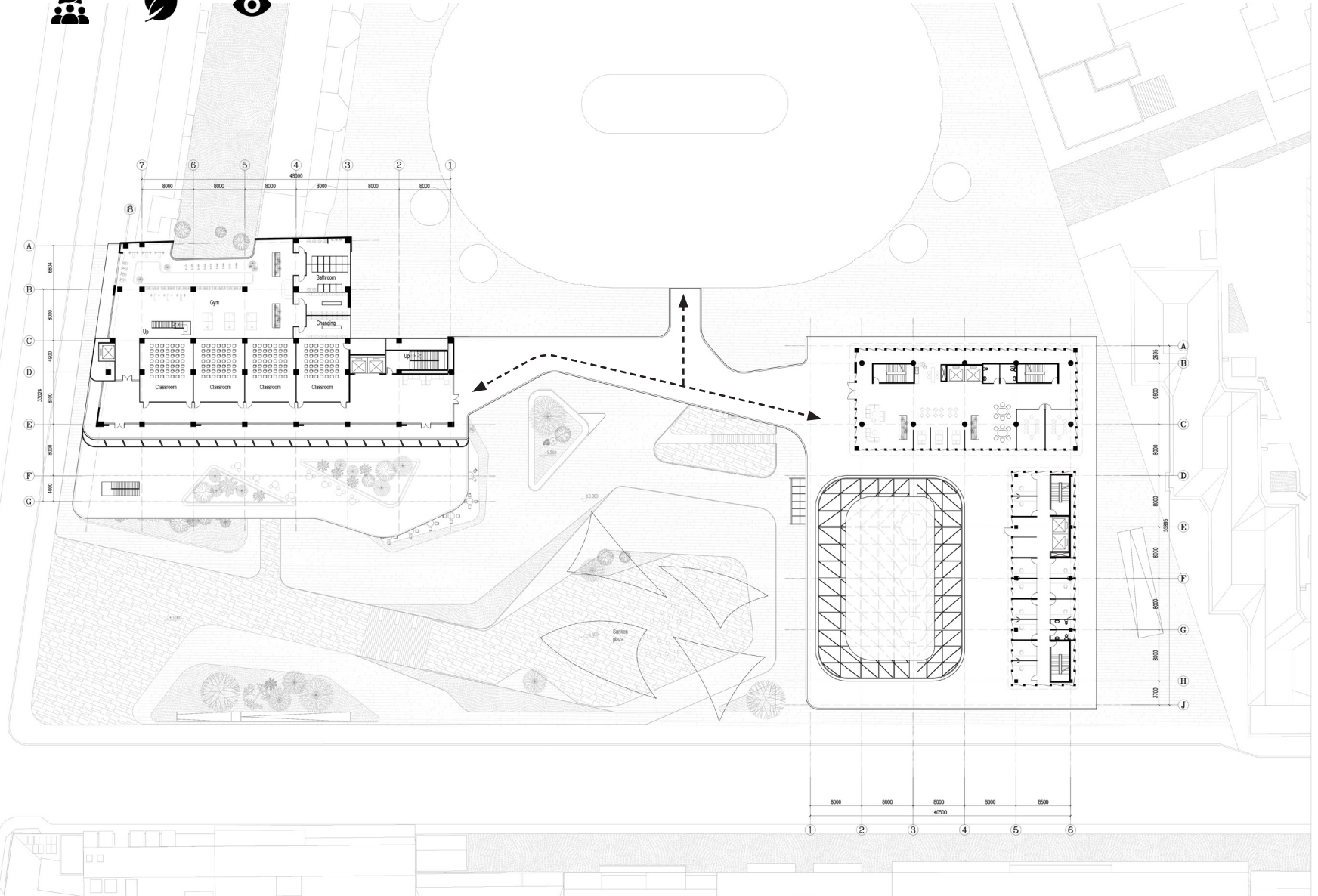


# Design

## SECOND FLOOR PLAN



- 1.Sports
- 2.Office
- 3.Meeting
- 4.Nature
- 5.View

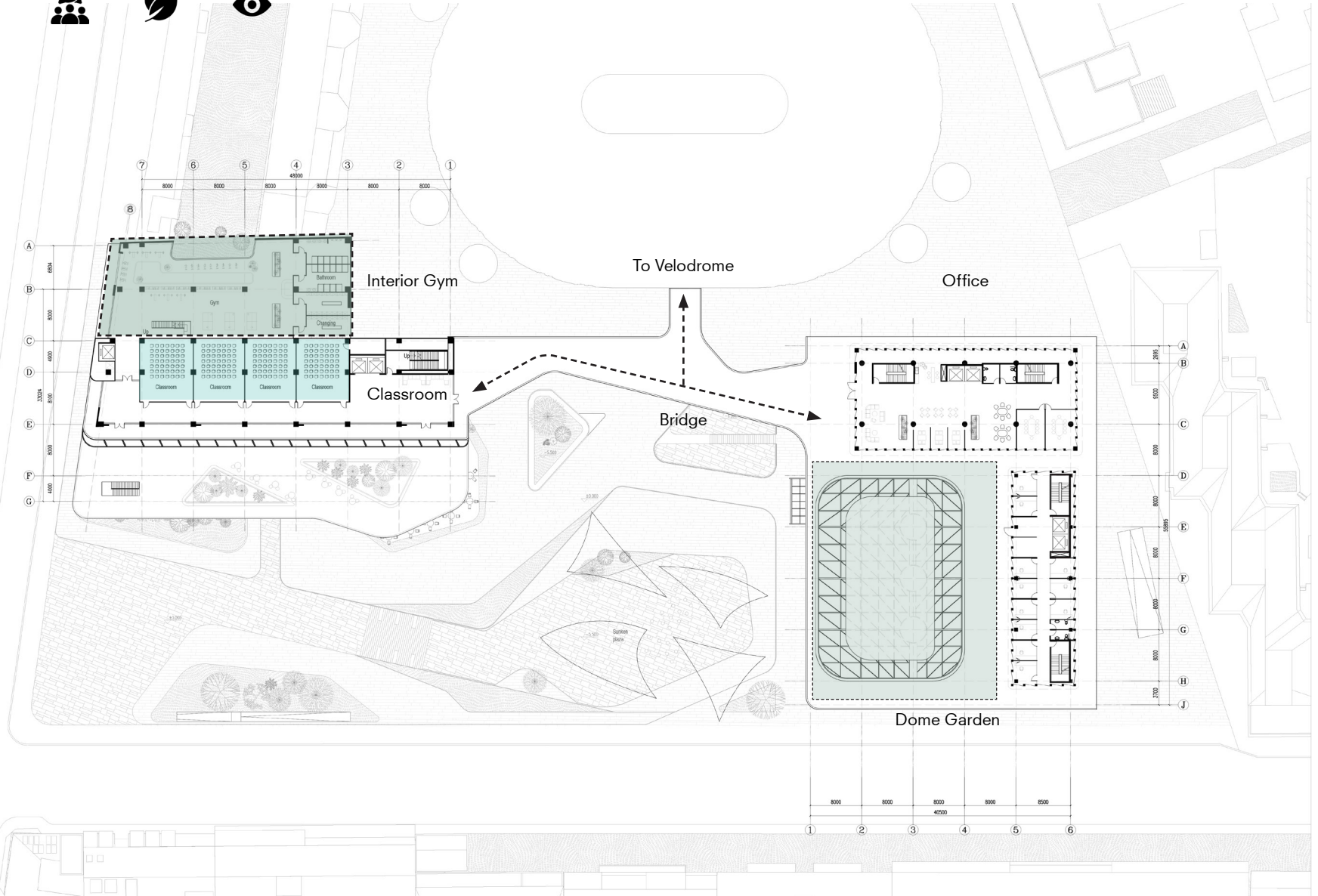


# Design

## SECOND FLOOR PLAN



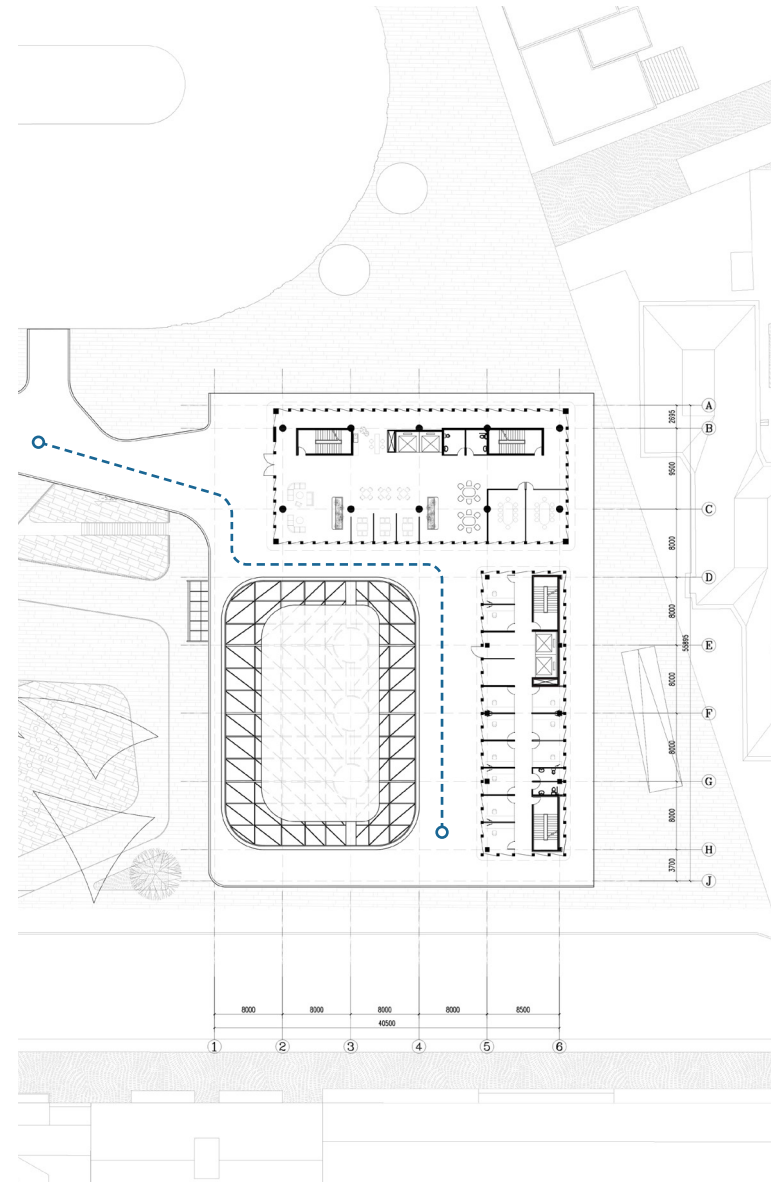
1. Sports
2. Office
3. Meeting
4. Nature
5. View





# Design

## SECOND FLOOR PLAN





# Design

## SECOND FLOOR PLAN



1. Sports
2. Office
3. Meeting
4. Nature
5. View

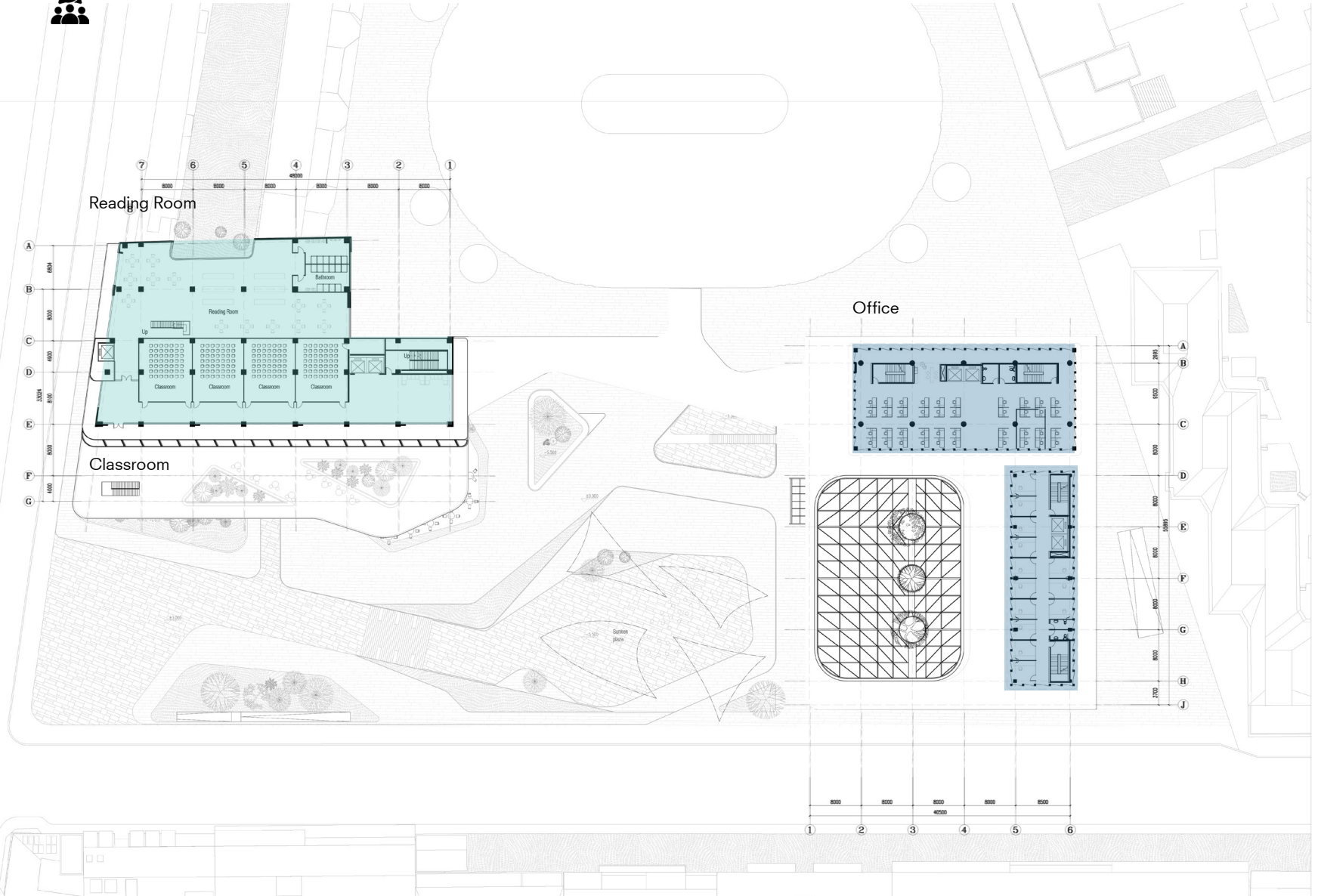




# Design THIRD FLOOR PLAN



- 1. Study
- 2. Office
- 3. Meeting

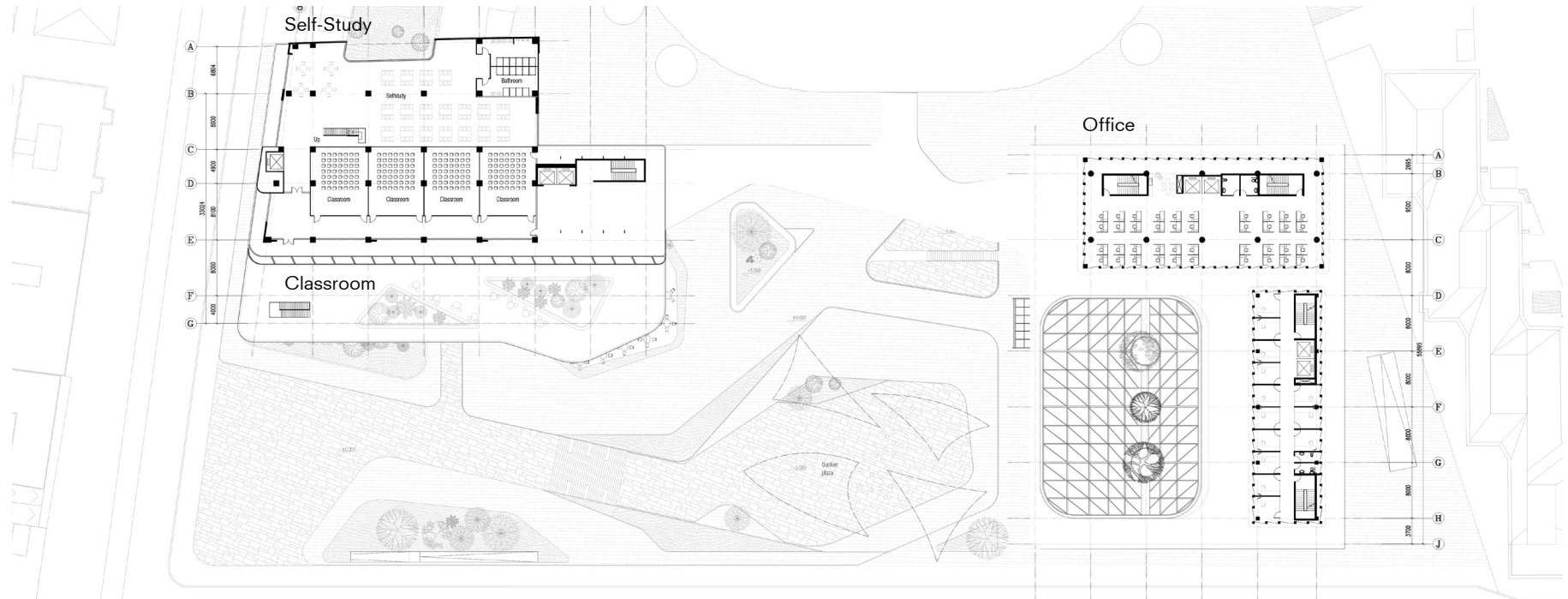


# Design

## FOURTH FLOOR PLAN



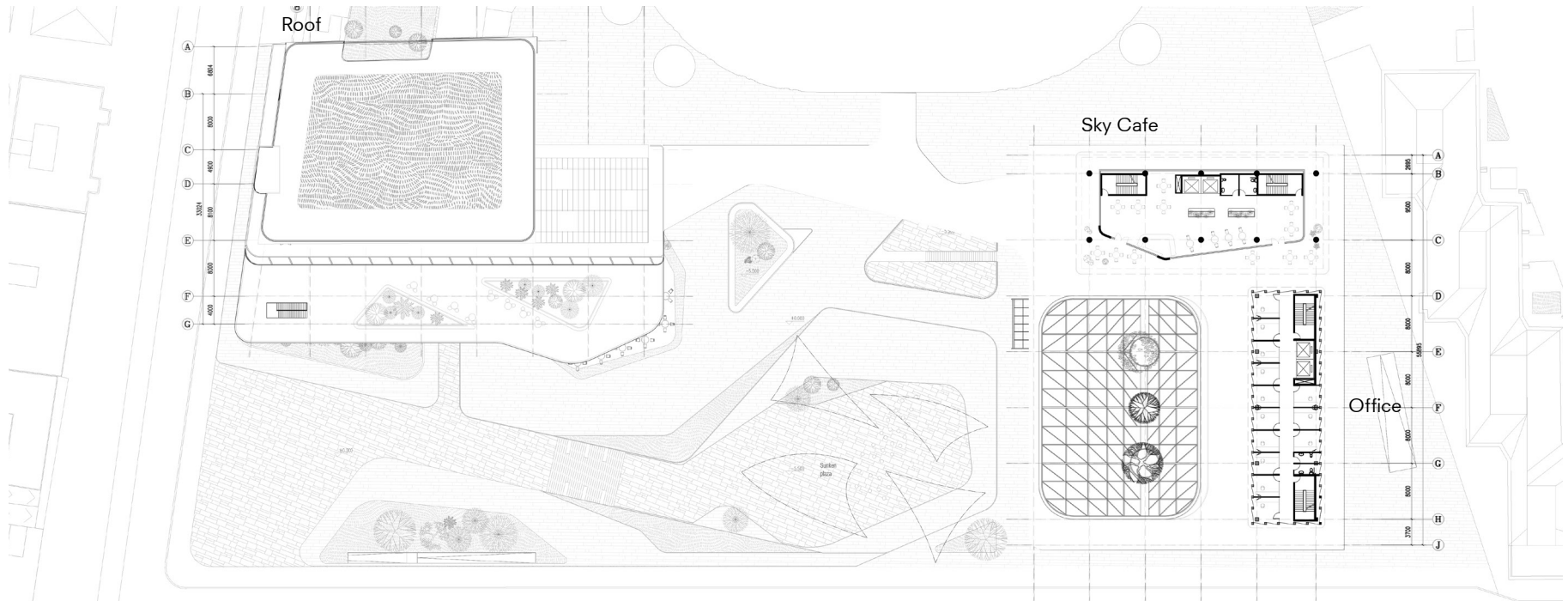
- 1.Study
- 2.Office



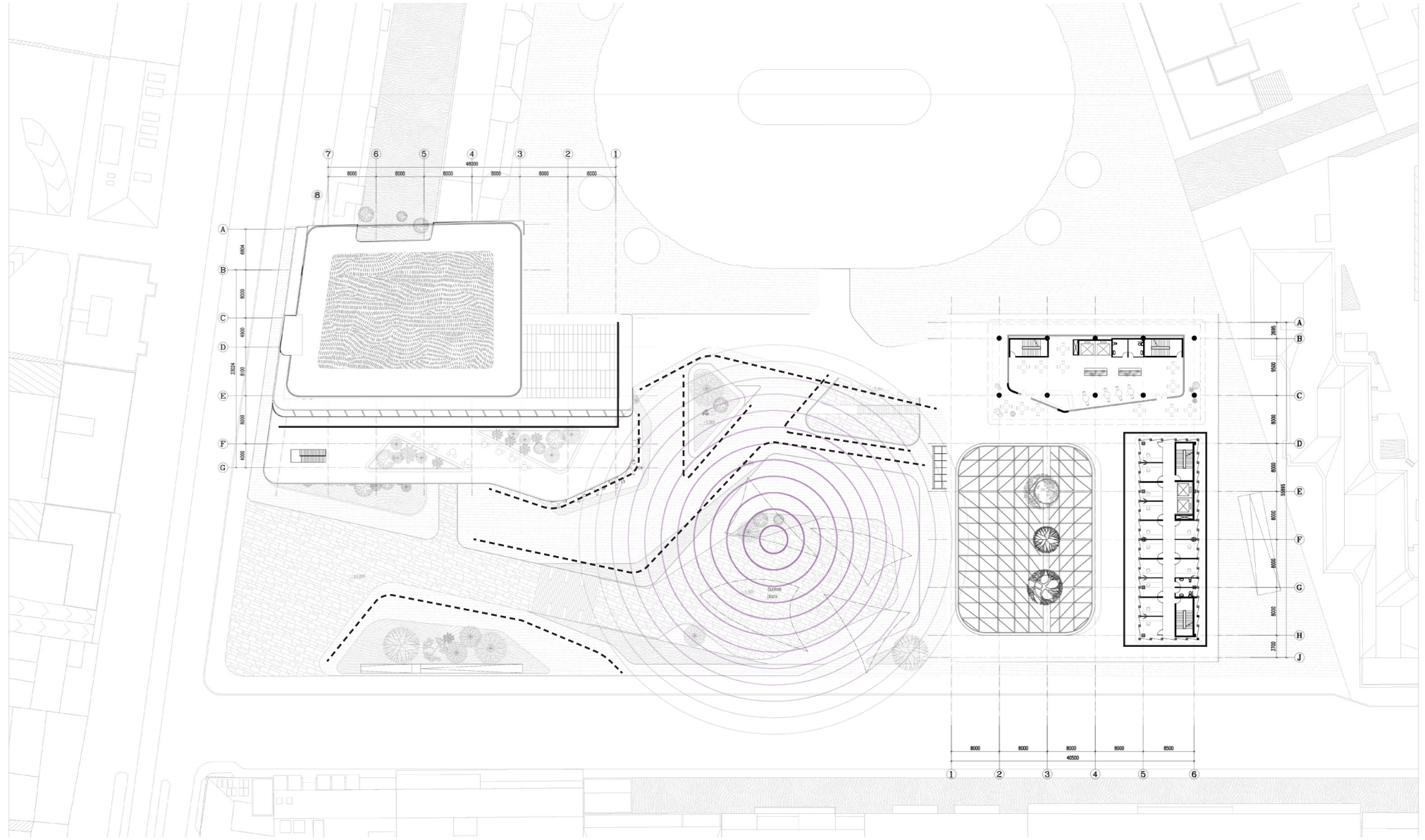


Design

# ROOF PLAN/11F PLAN

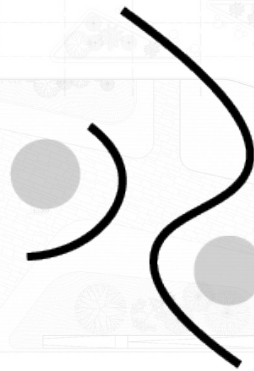
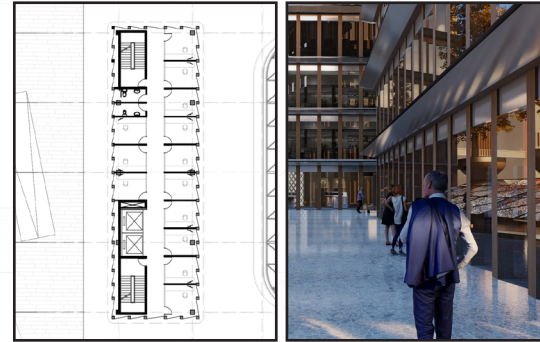
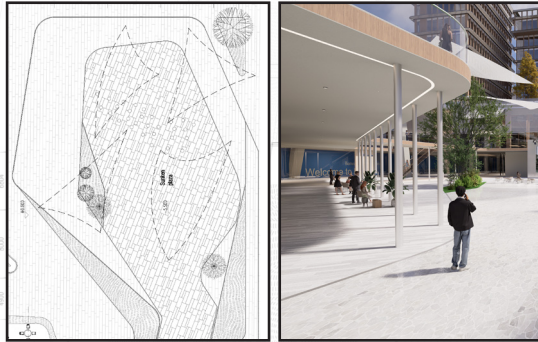


# Design ROOF PLAN

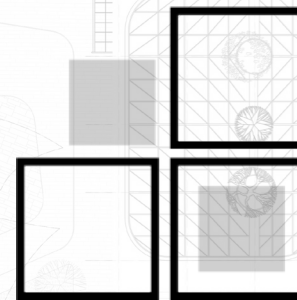




# Design ROOF PLAN



**Curve**  
Nature  
Public  
Movement



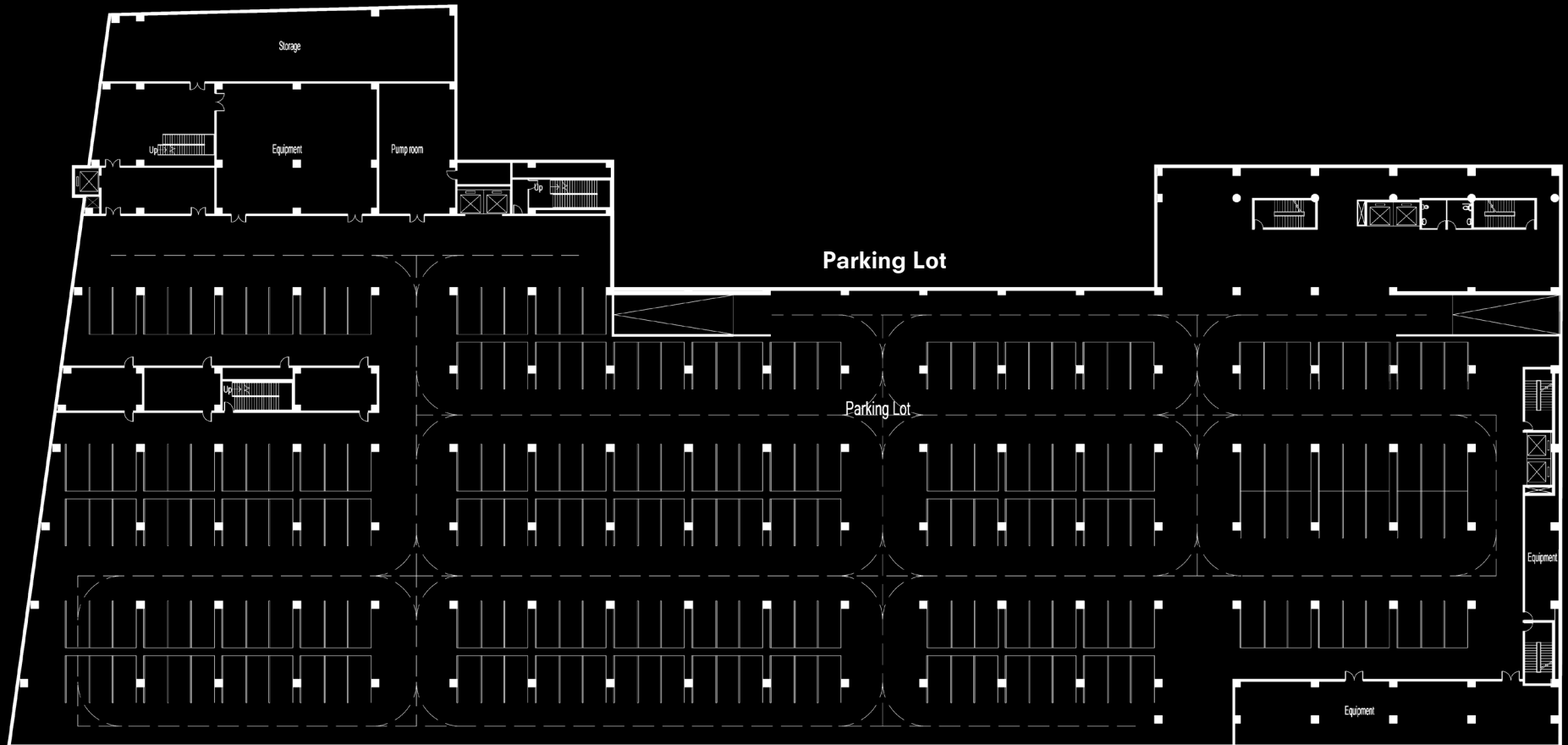
**Straight line**  
Controlled  
Private  
static

Design

# BASEMENT 2-3 FLOOR PLAN

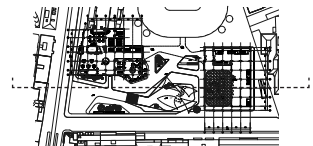
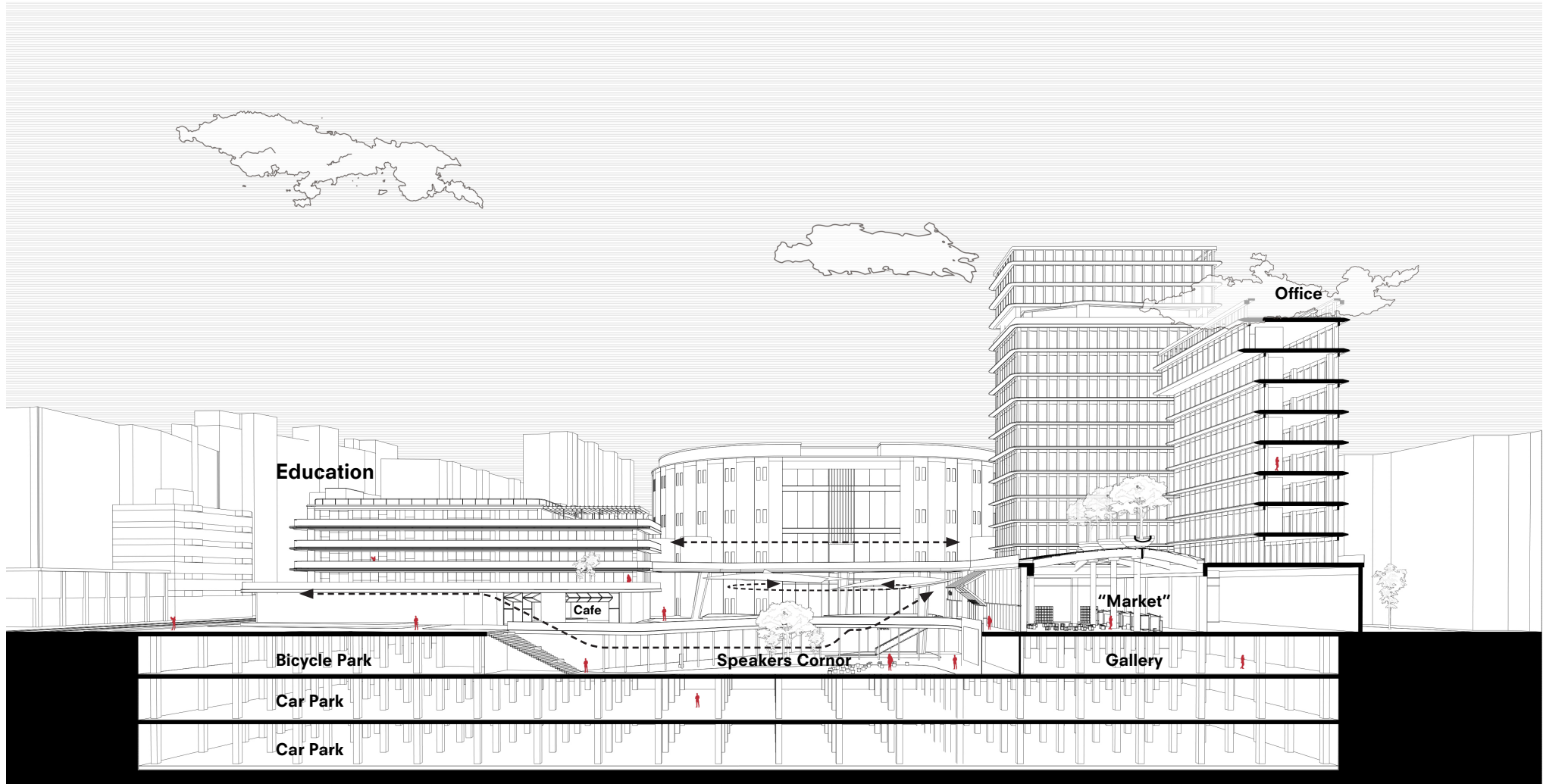


1. Car parking
2. Service equipment



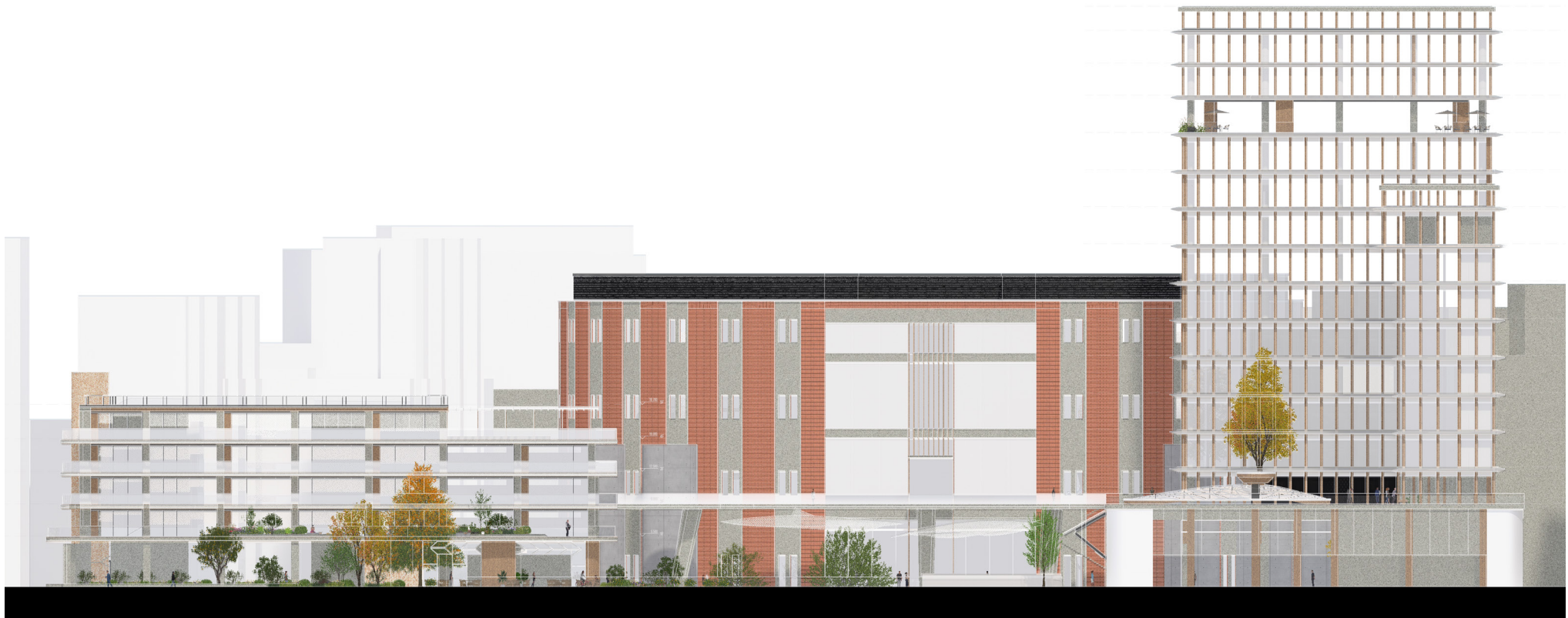


# Design SECTION



Design

# ELEVATION - WEST





Design

# ELEVATION - WEST



Design

# ELEVATION - NORTH





Introduction

Design Brief

Design

**[Materialization]**

Conclusion

Materialization

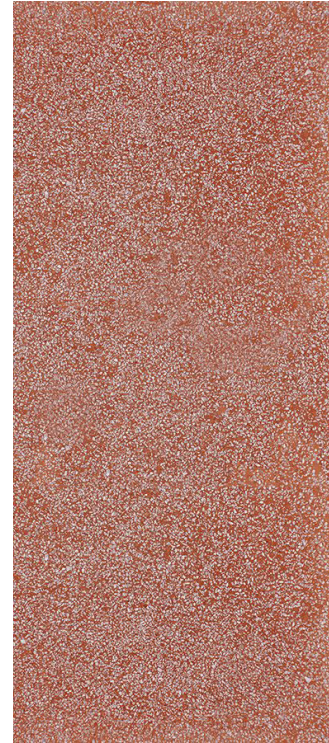
# MATERIAL



**Wood**



**Glass  
+Polycarbonate**



**Recycled plastic**



**Aluminum**



Materialization

# MATERIAL



**CLT Wood**



**Glass  
+Polycarbonate**



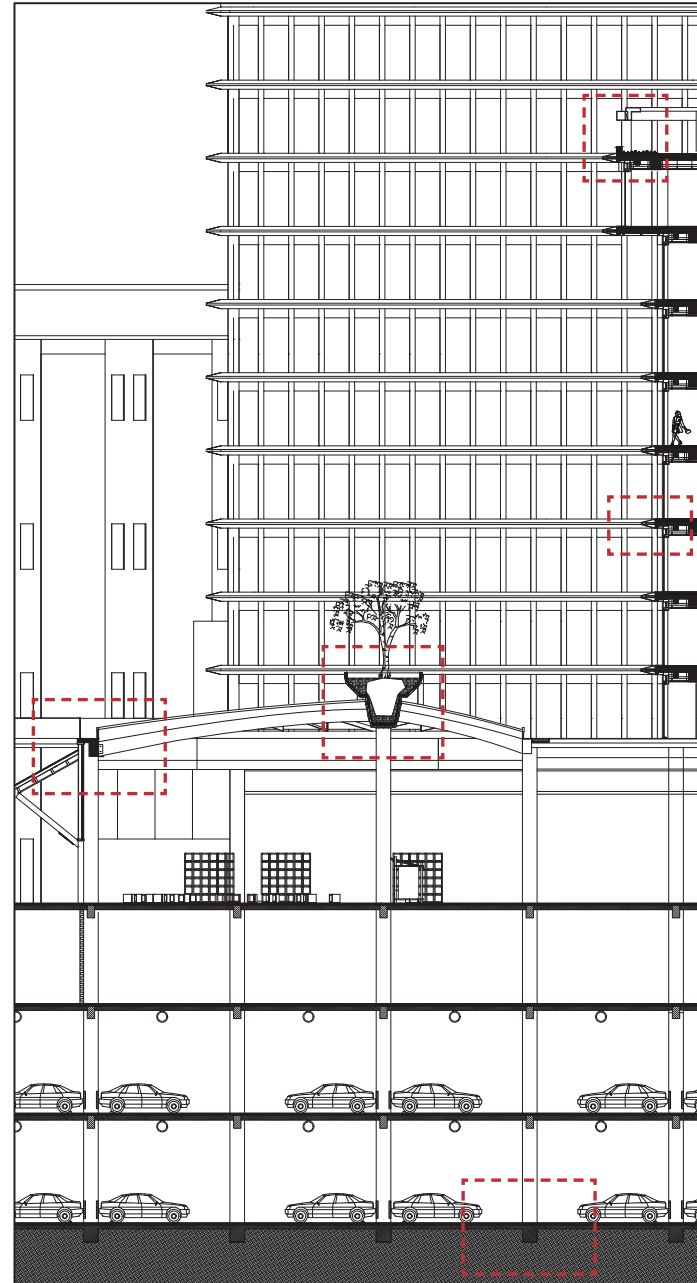
**Recycled plastic**



**Aluminum**

Materialization

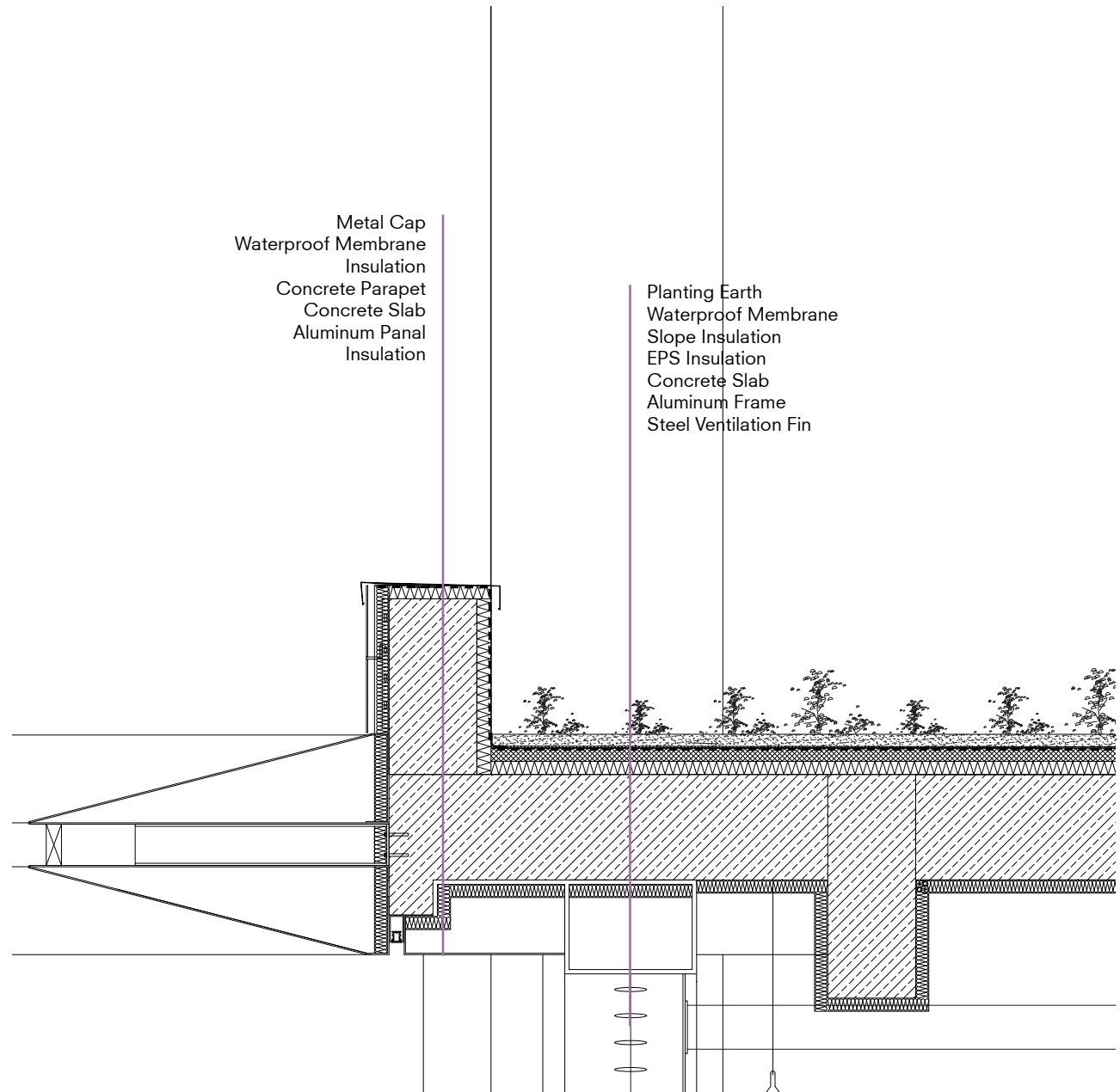
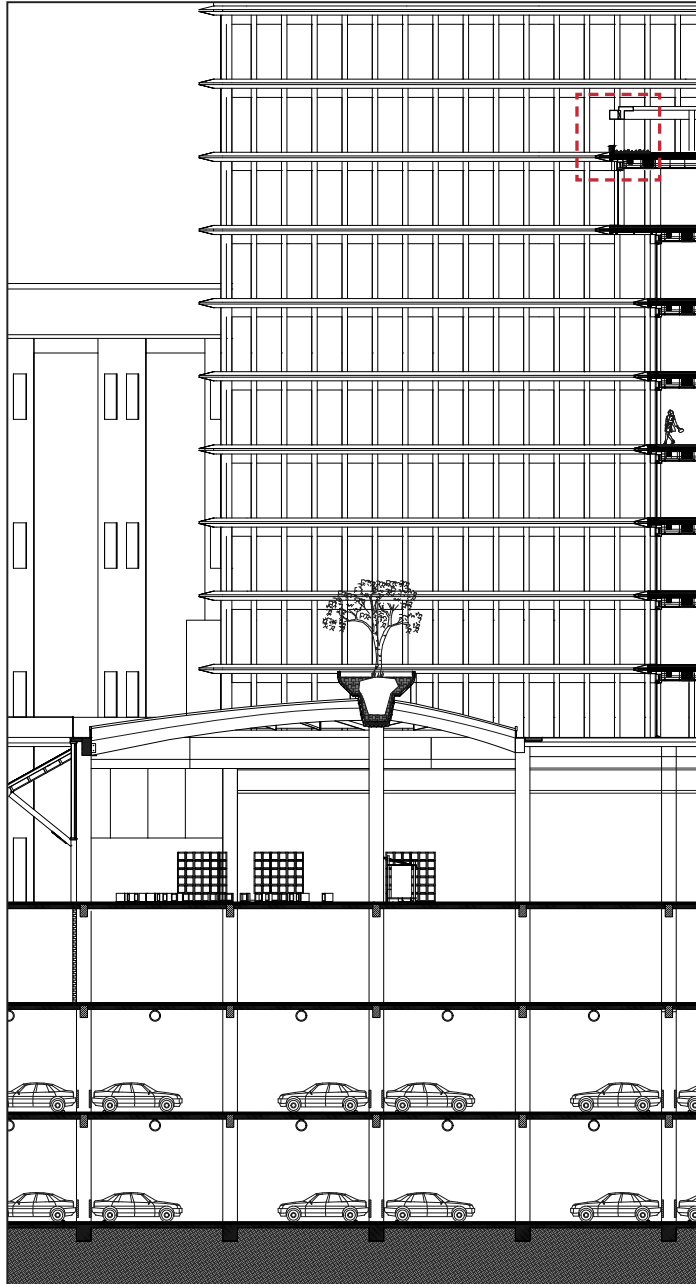
# FACADE FRAGMENT





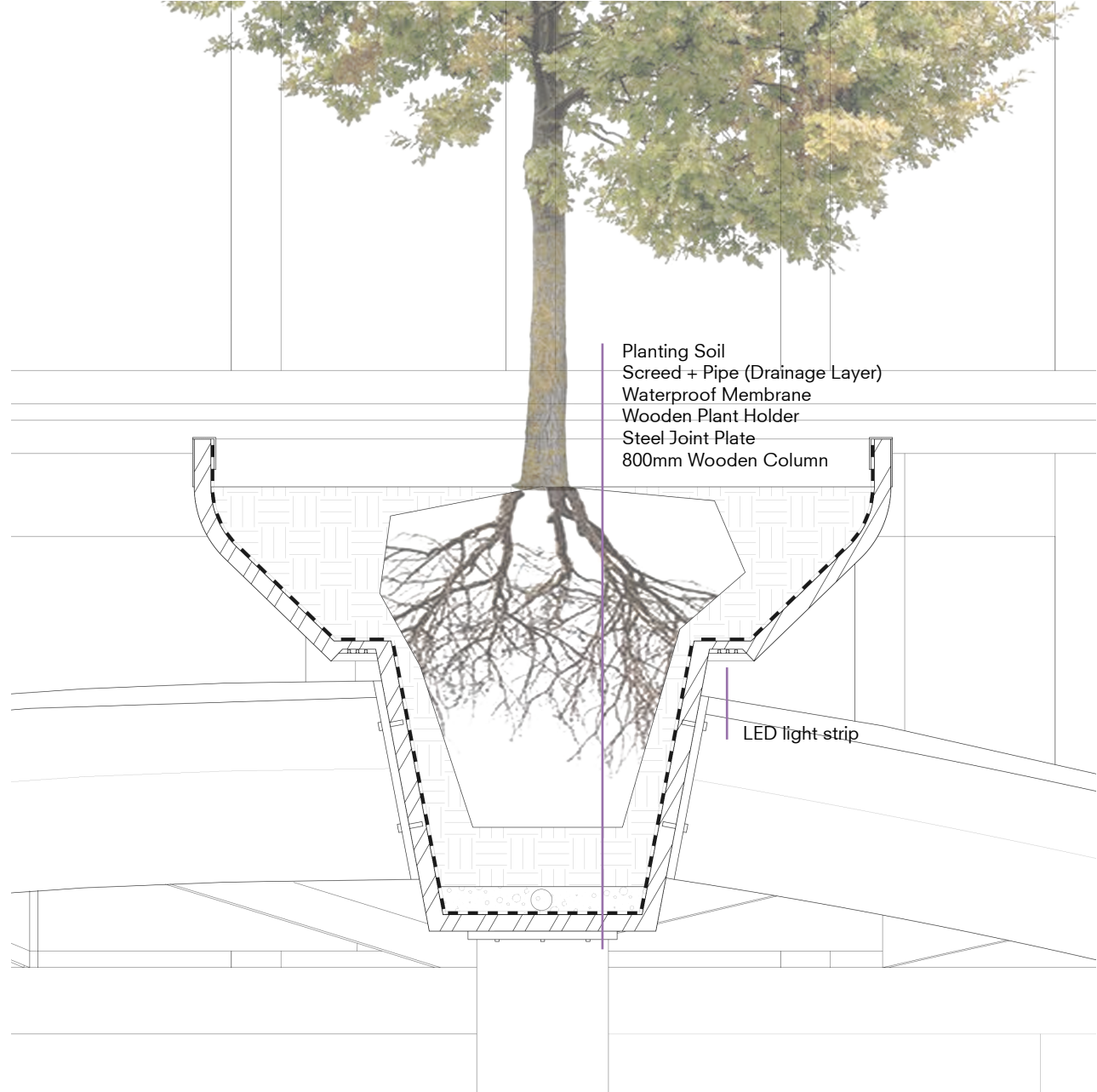
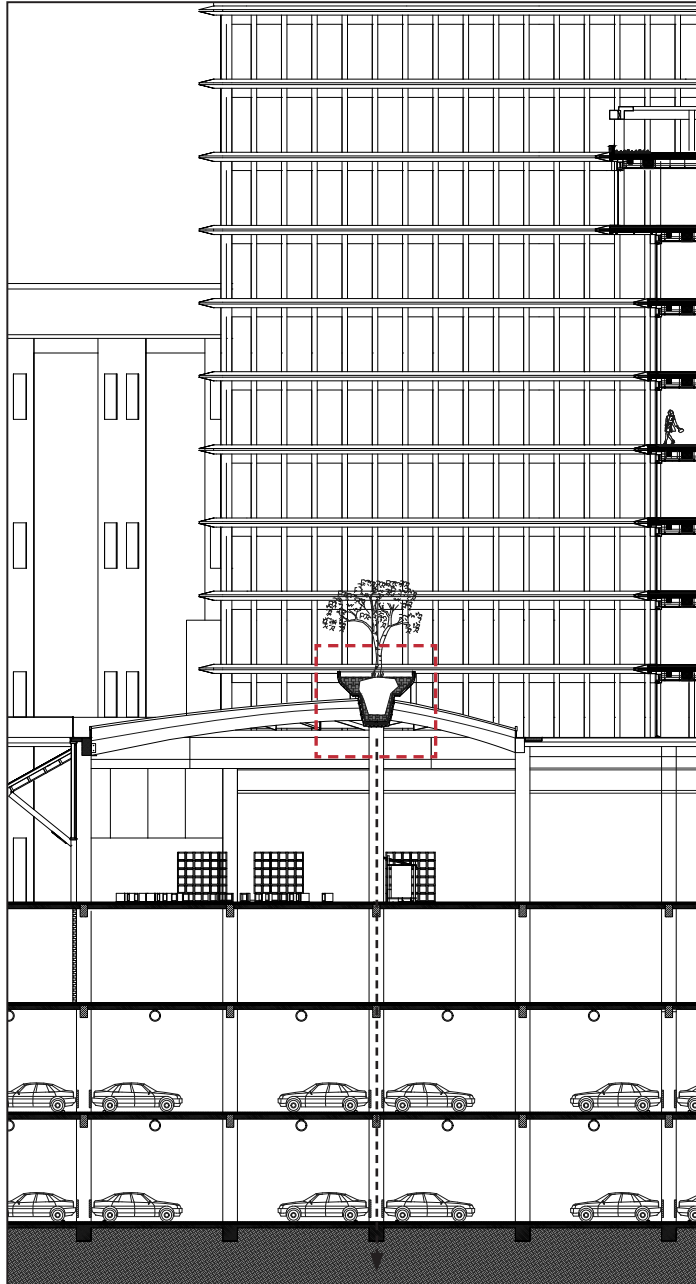
# Materialization

## DETAIL 1:5 - A



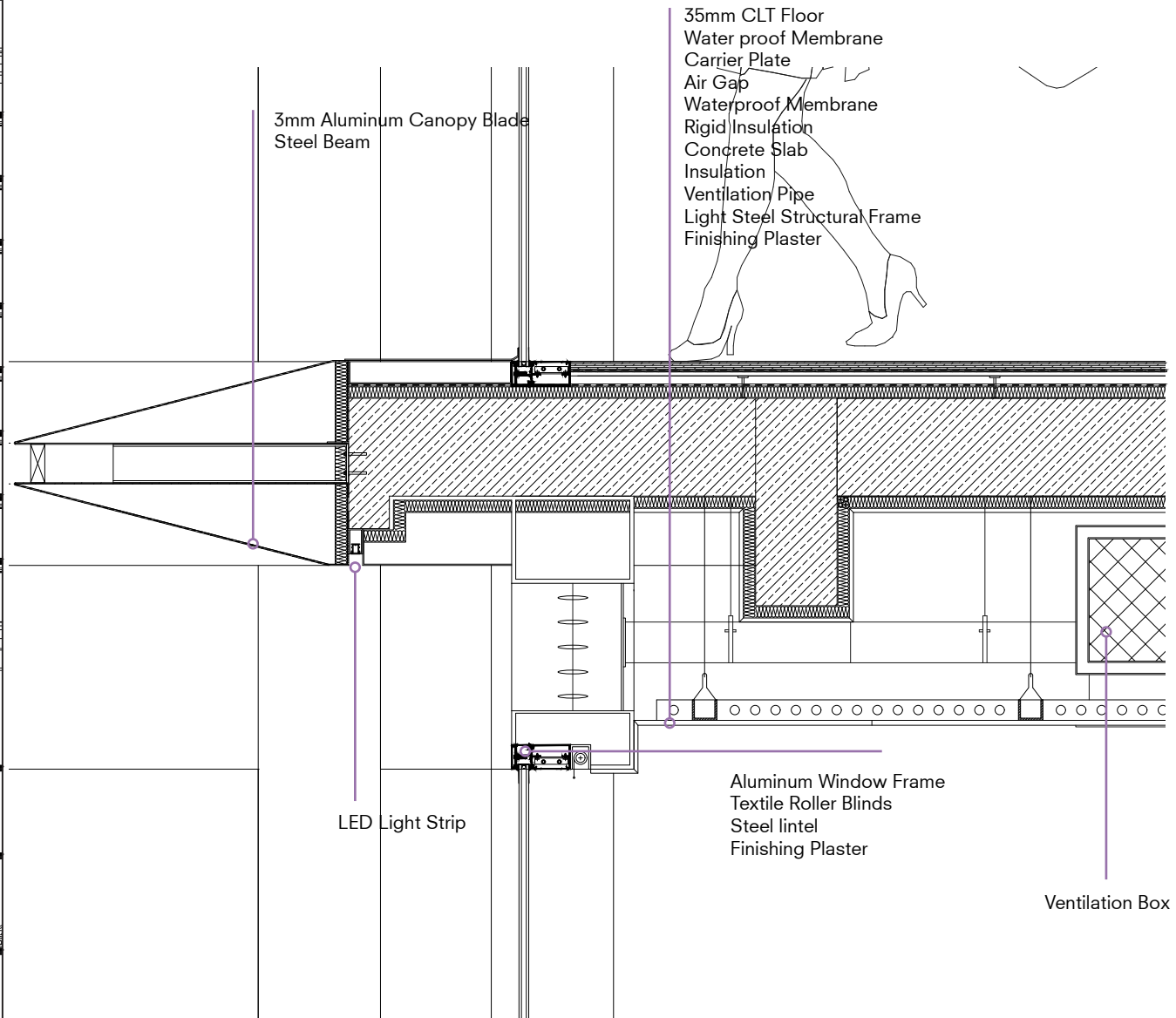
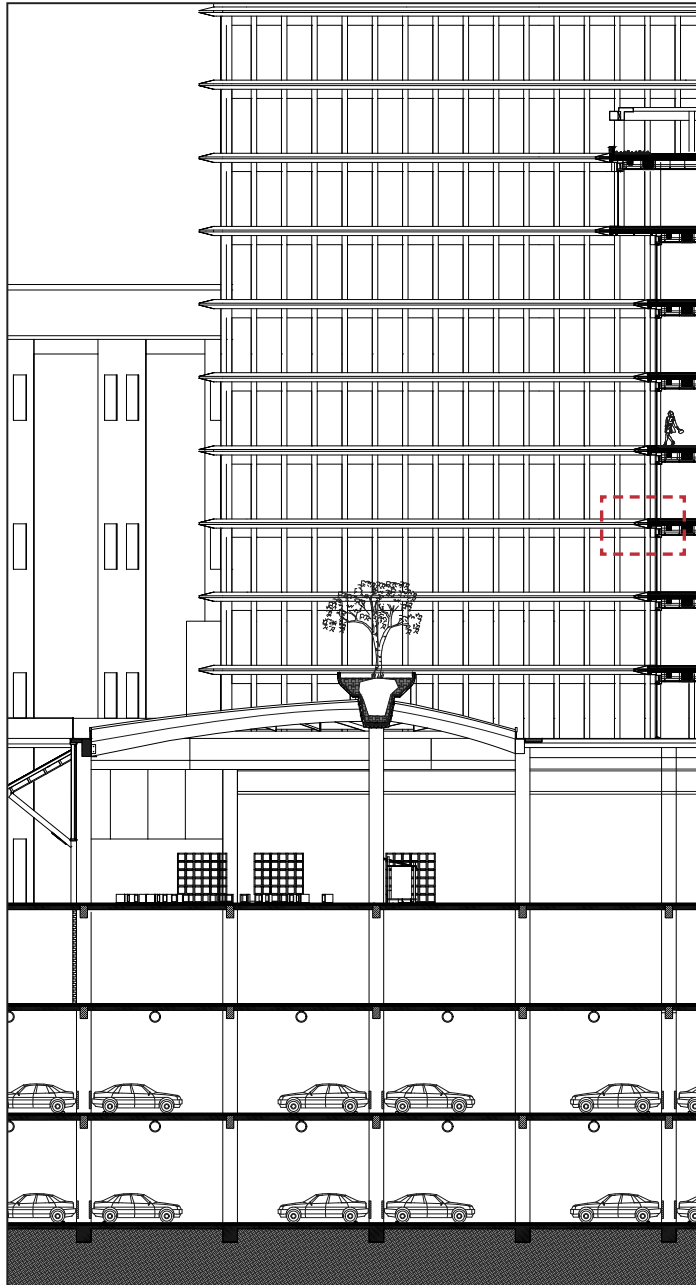
# Materialization

## DETAIL 1:5 - B



# Materialization

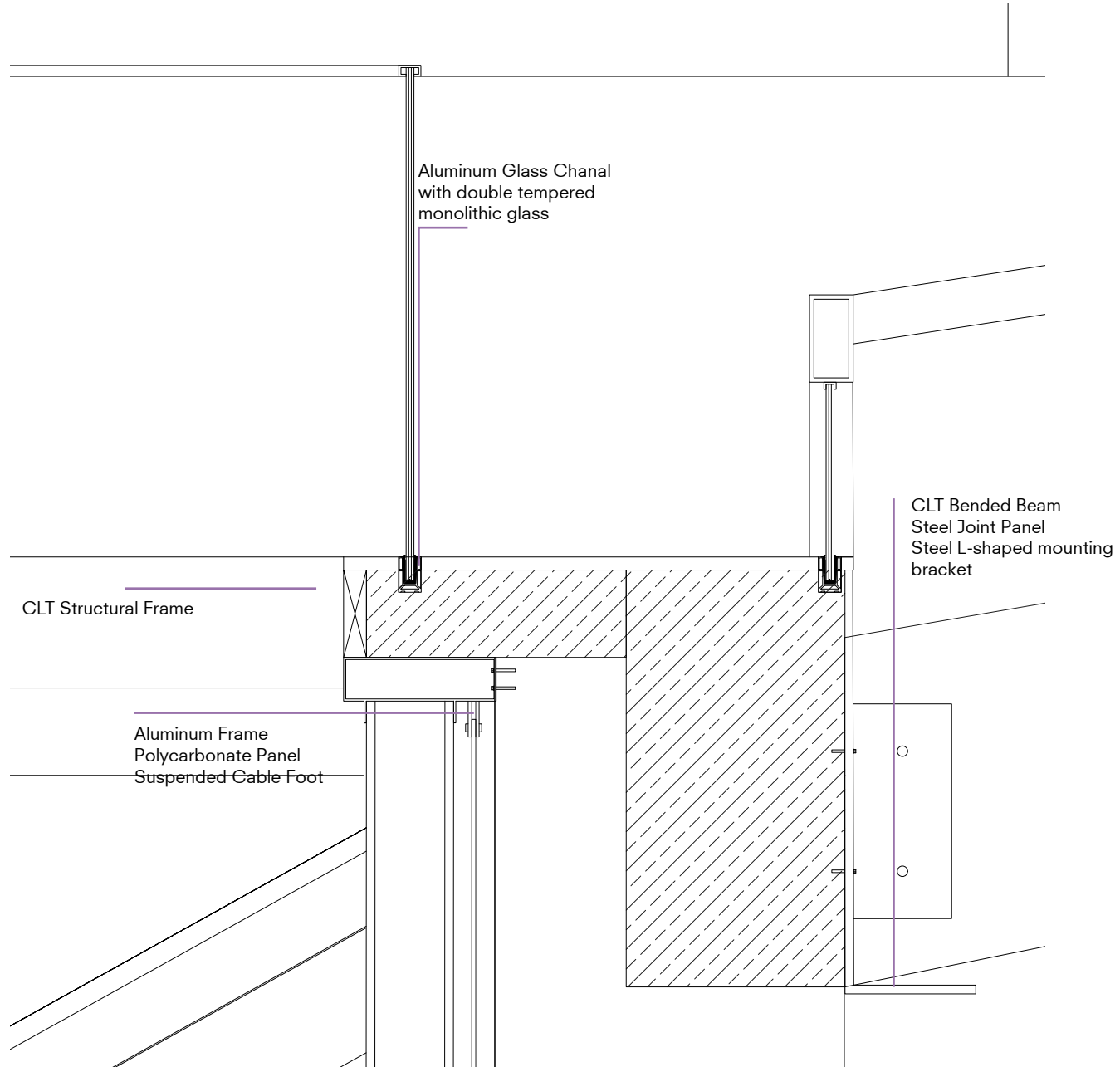
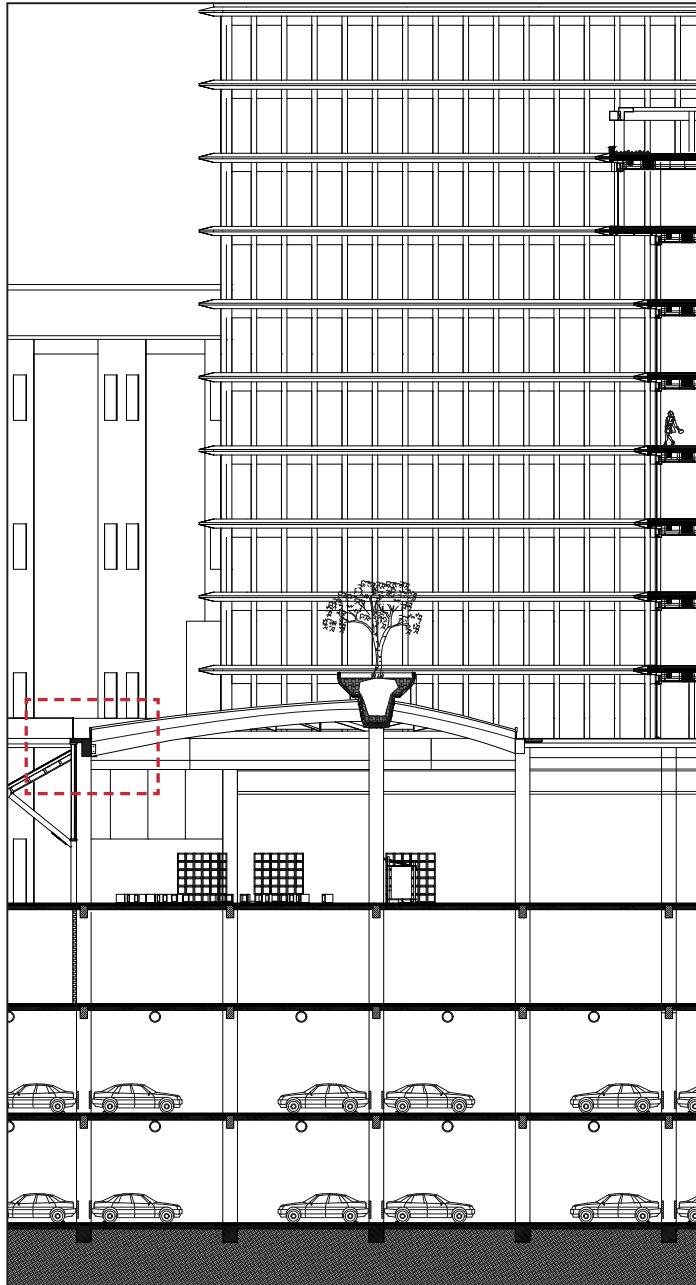
## DETAIL 1:5 - C





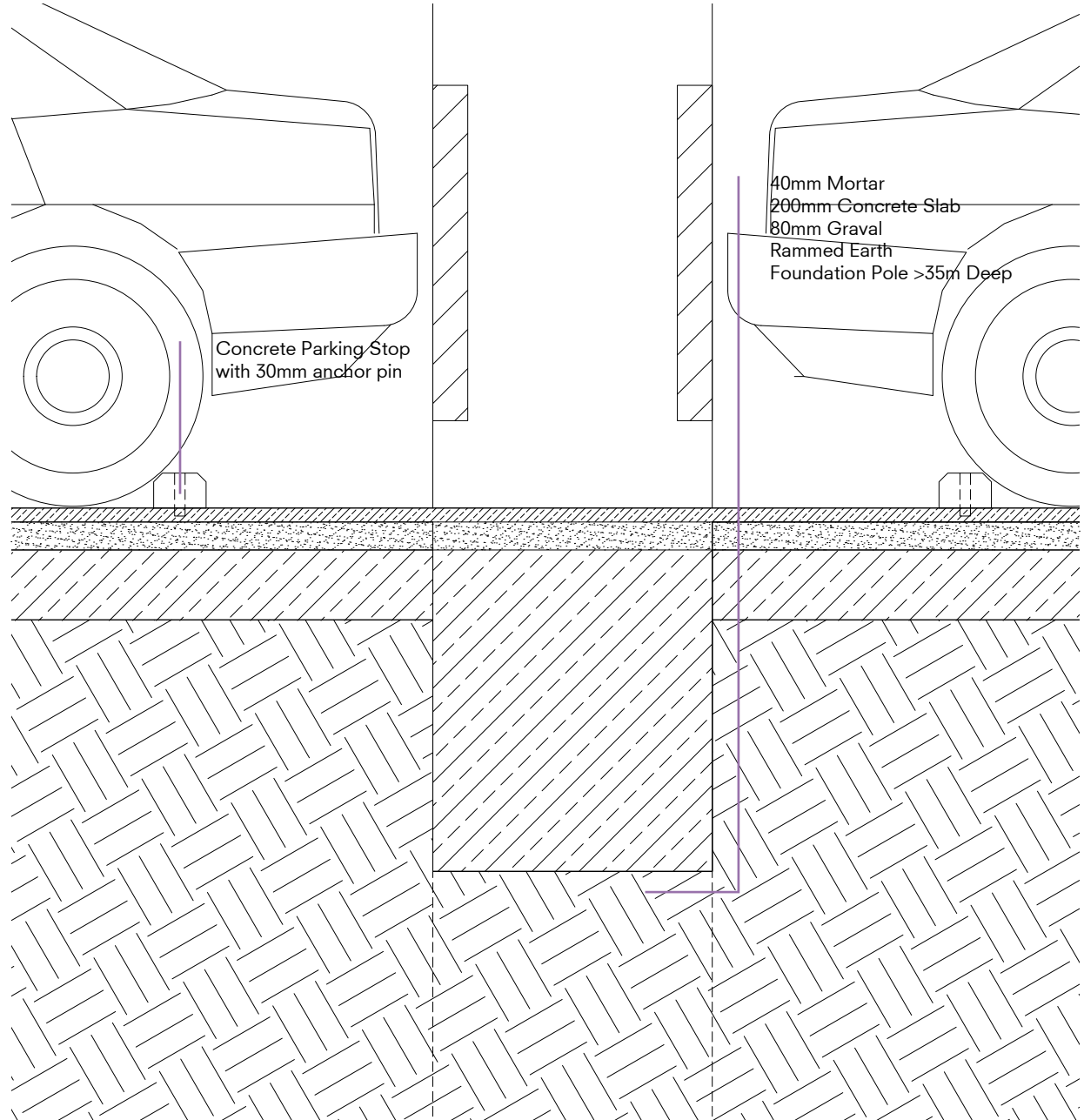
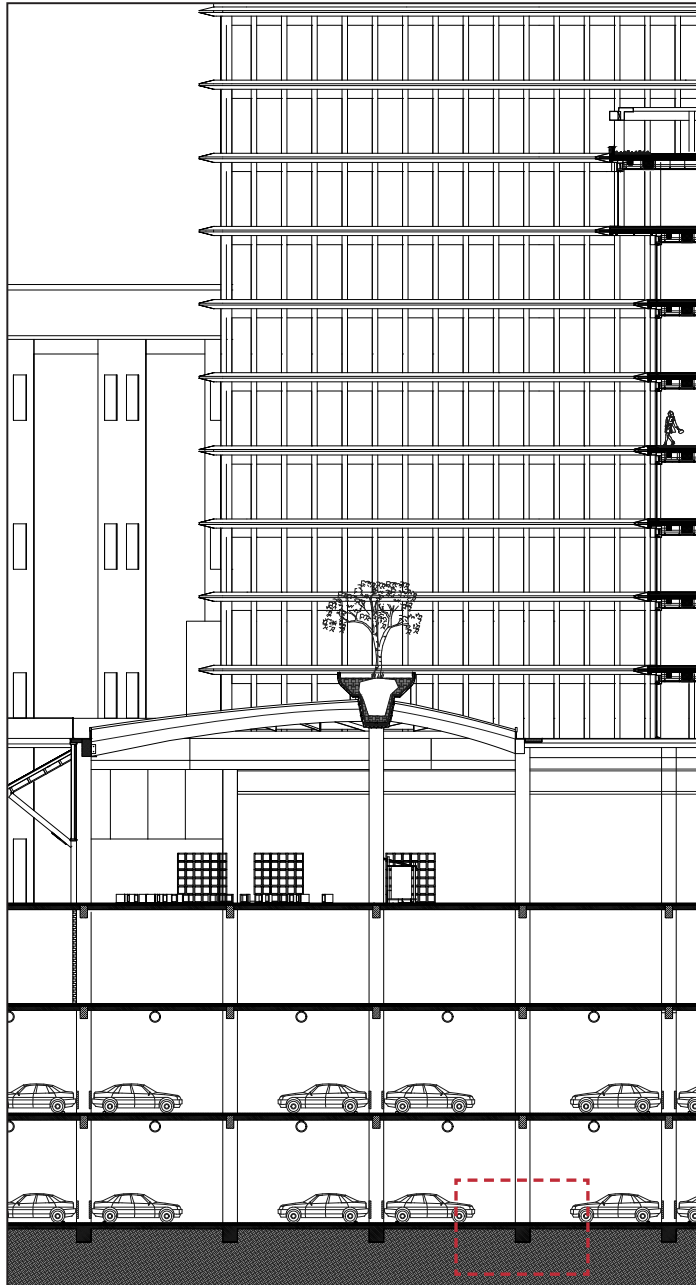
# Materialization

## DETAIL 1:5 - D

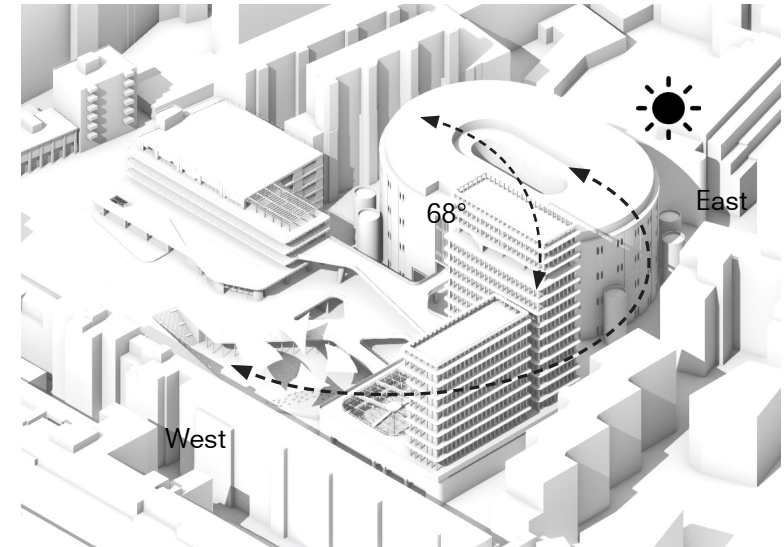
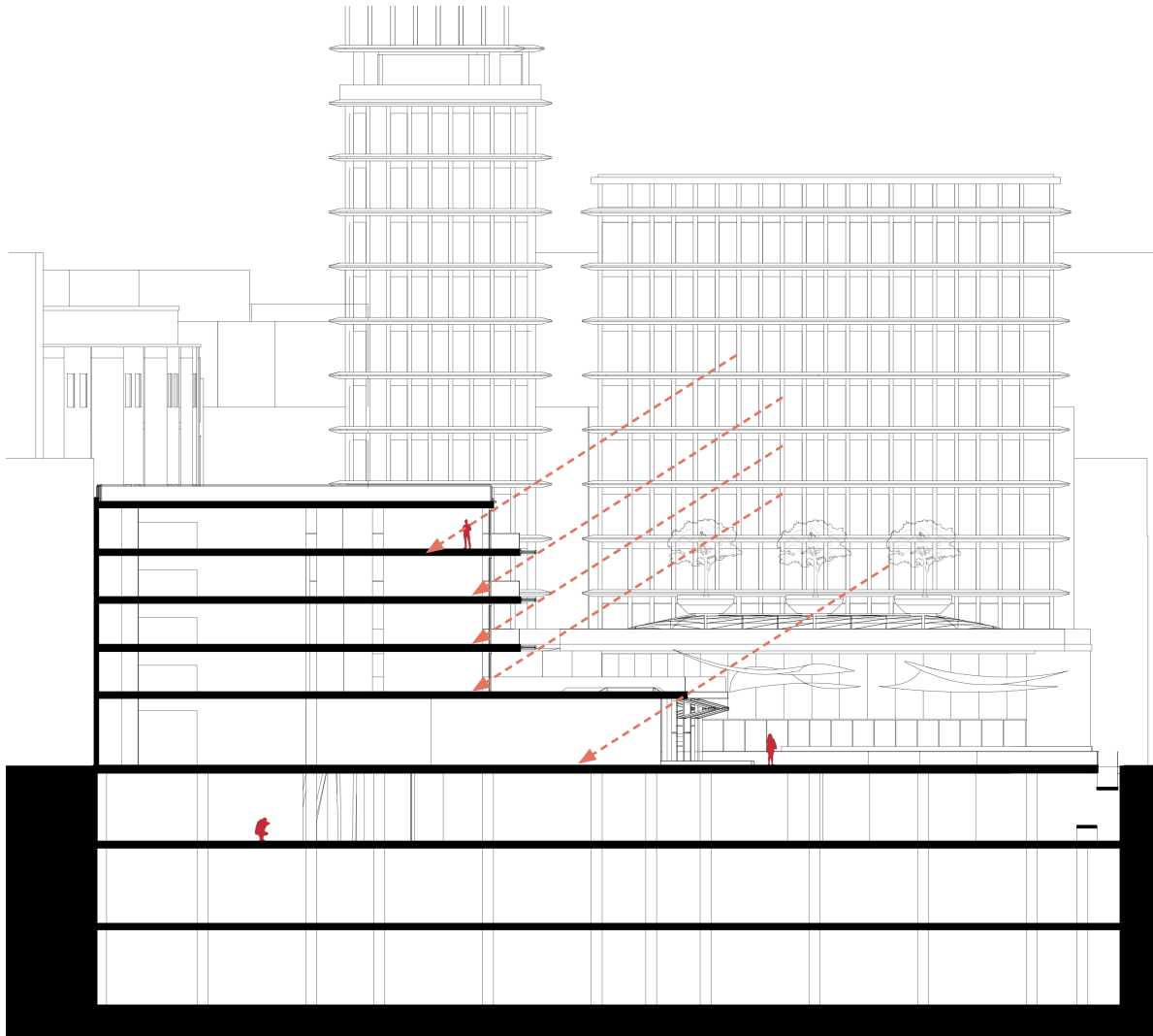


# Materialization

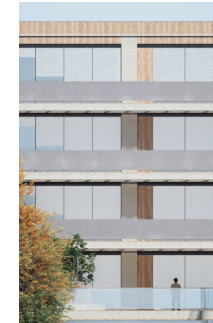
## DETAIL 1:5 - E



# Materialization SUNSHADE



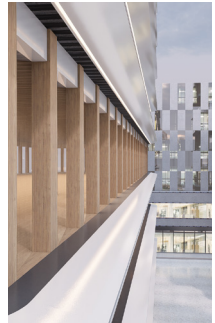
## Main Shaded Facades



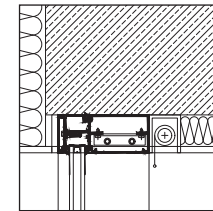
Rolled Blinds



Semi-transparent



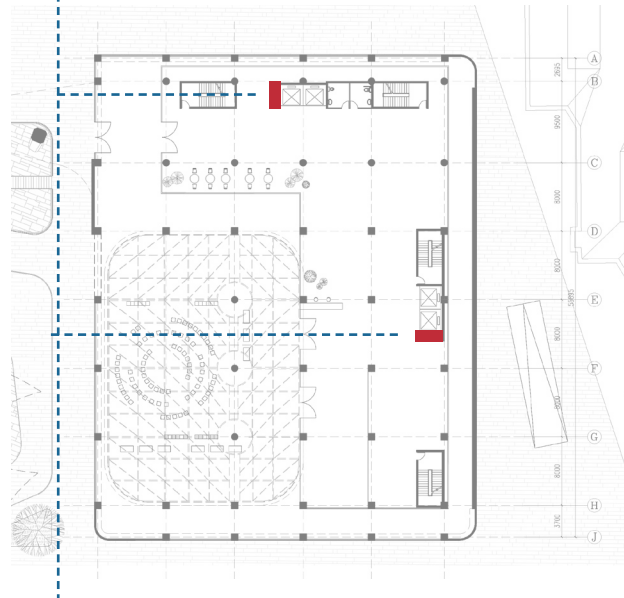
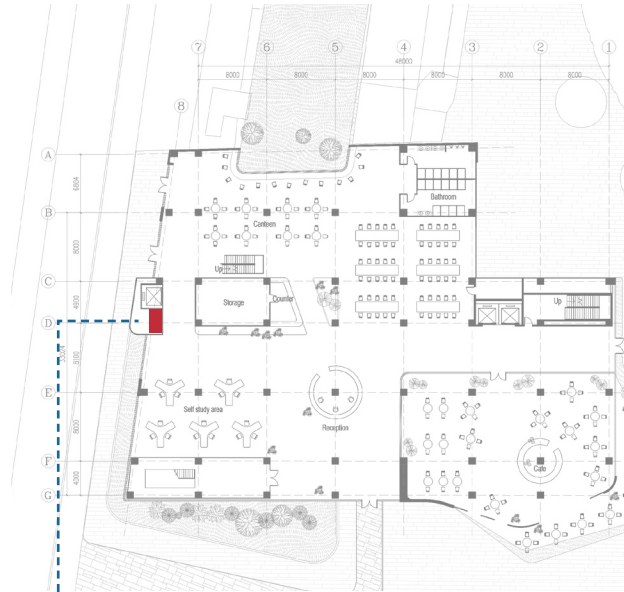
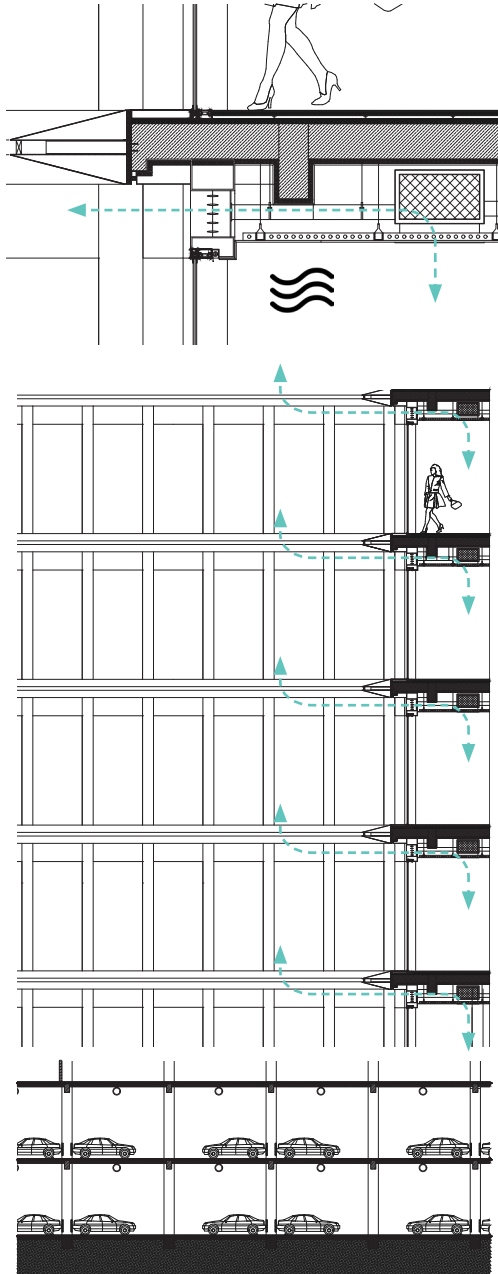
Extended Eaves



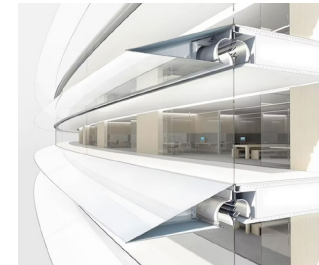


# Materialization

## CLIMATE



Ventilation Shaft



Facade Ventilation



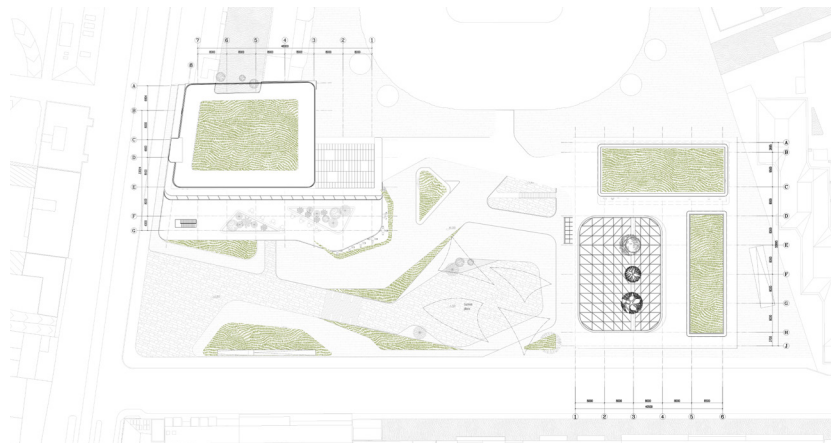
Mechanic Ventilation

# Materialization

## ROOF TERRACE



Multiple layer of Greenary can create high humidity level and reduce the temperature in urban area (Prihatamanti & Taib, 2017)



1 sqm 100mm terrace can store 30L water, the larger the roots are, the more water it can store

### Multiple level of Green + Roof Terrace

Prihatamanti, R & Taib, N. (2017). Maximising the Potential of Transitional Space in Building for Improving Thermal Comfort Through Vertical Greenaries.

Introduction

Design Brief

Design

Materialization

**[Conclusion]**



Conclusion

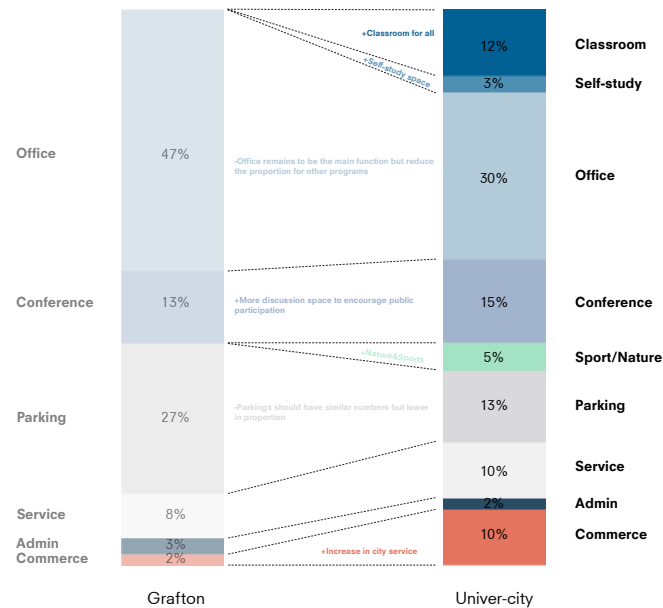
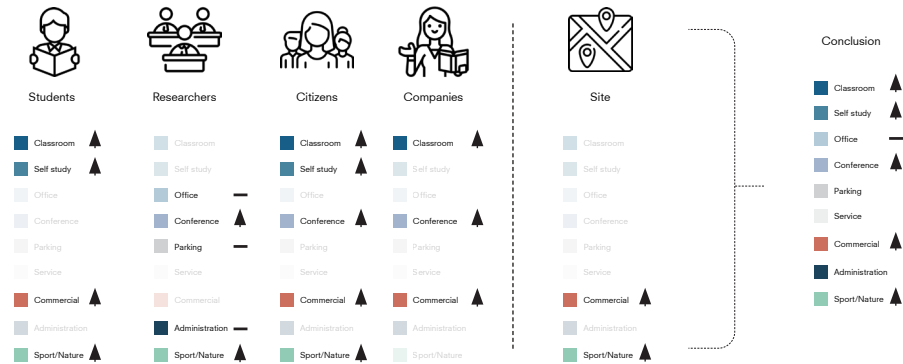
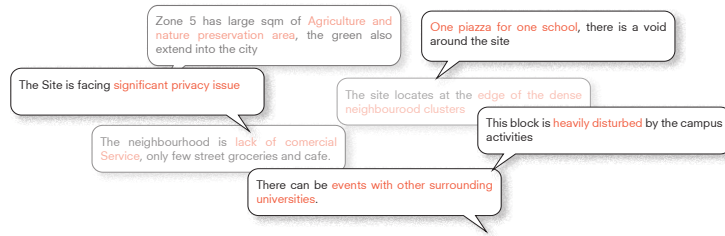
# RESEARCH QUESTION



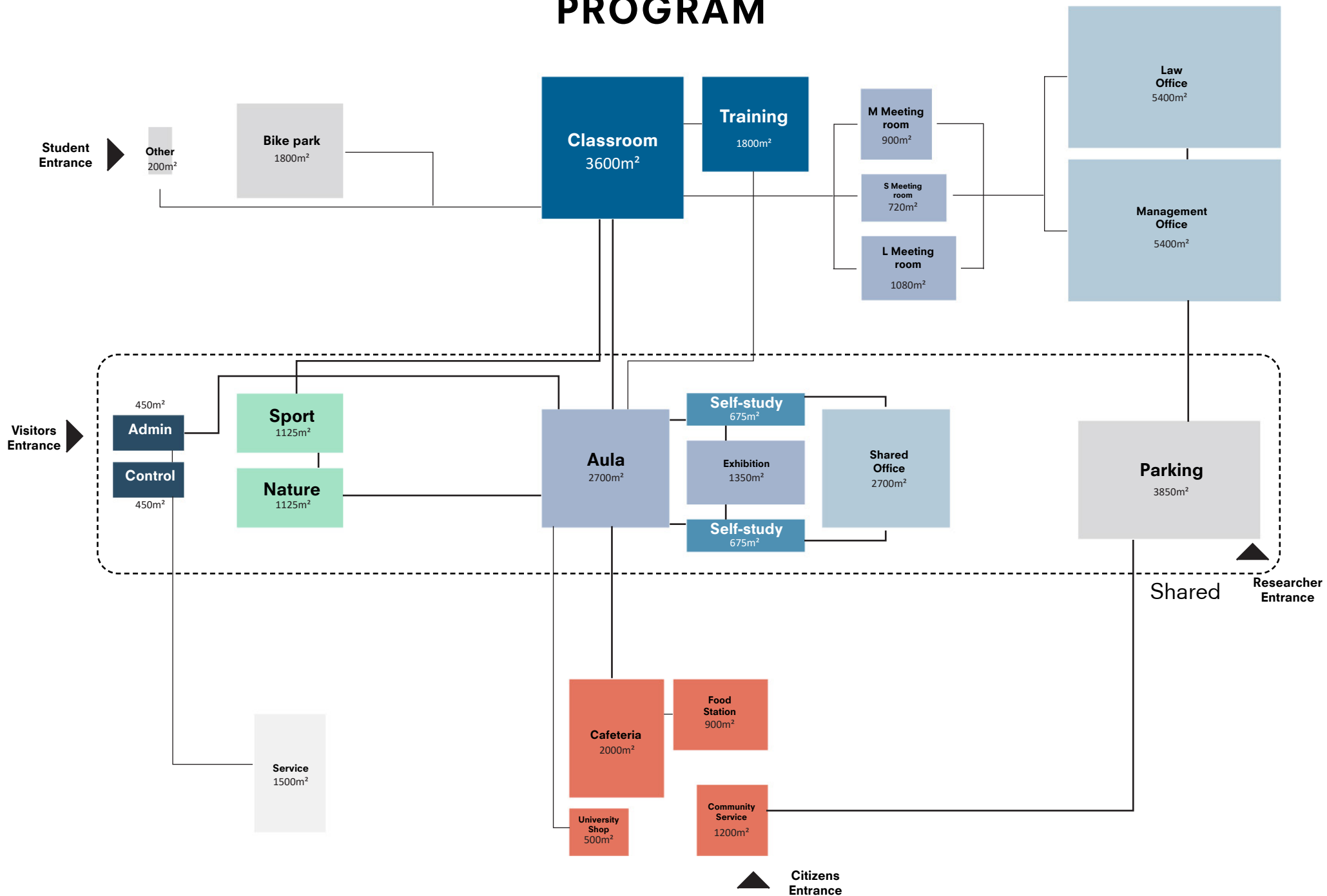
How to facilitate the integration of Bocconi and Milan through the control of boundary in favour of knowledge exchange?



# Conclusion PROGRAM



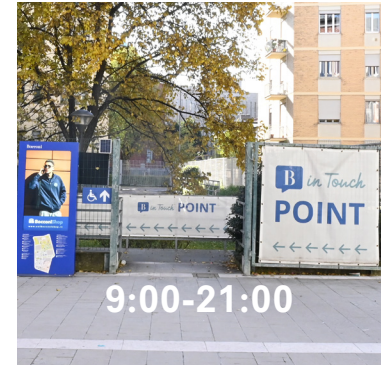
# Conclusion PROGRAM





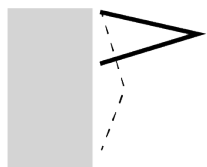
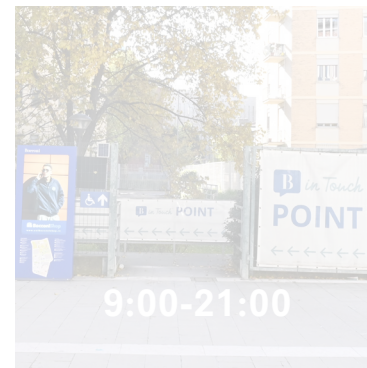
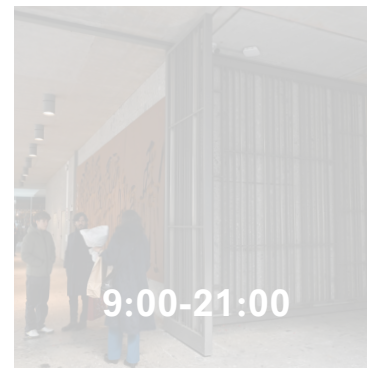
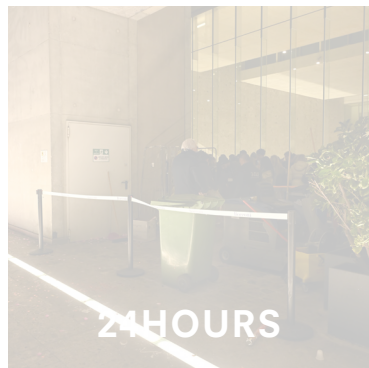
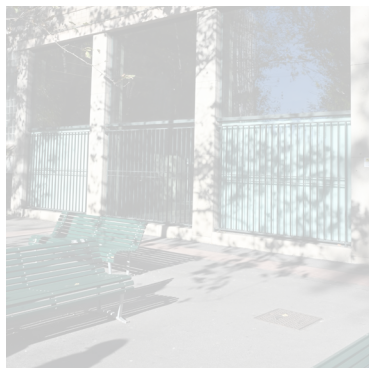
Conclusion

# BOUNDARY TOOLBOX



# Conclusion

## BOUNDARY TOOLBOX



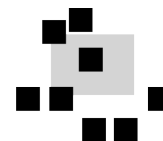
Folded Boundary



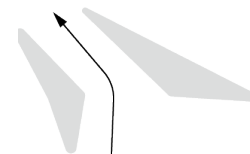
Shadow Boundary



Colonnade Boundary



Movable Boundary



Green Boundary



Conclusion

# "UNIVER-CITY"







Thank you

Thank you