CoLab Milan

Public Library as a Platform for Collective Creation

Babette Duijvestein October 30th, 2025



INTRODUCTION

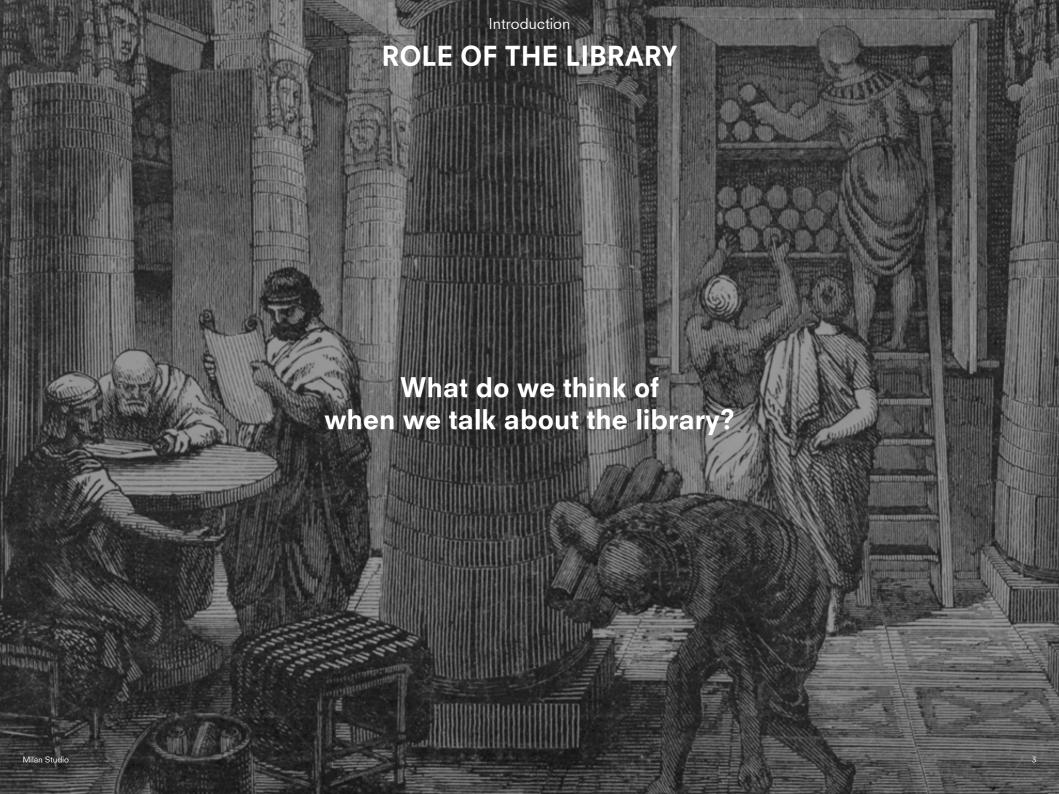
DESIGN BRIEF

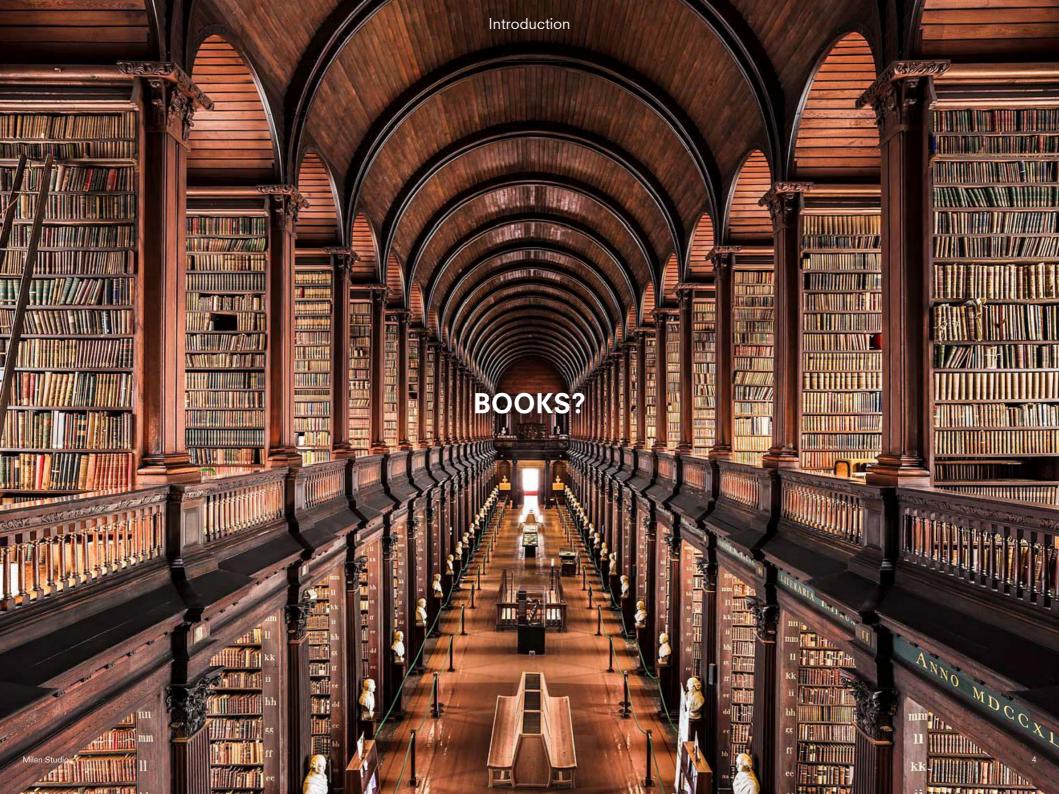
CONCEPT

DESIGN

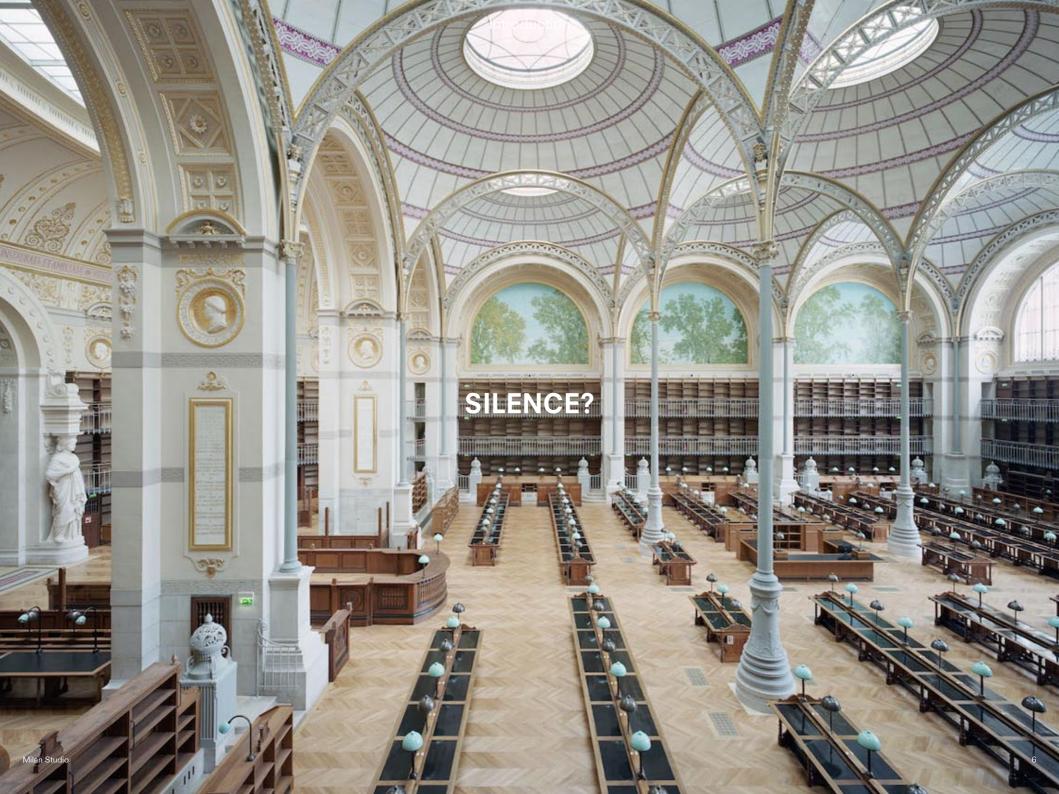
IMPLEMENTATION

CONCLUSION









Introduction

ROLE OF THE LIBRARY

STIMULATING INDIVIDUAL LEARNING, WHILE BENEFITING SOCIETY AS A WHOLE

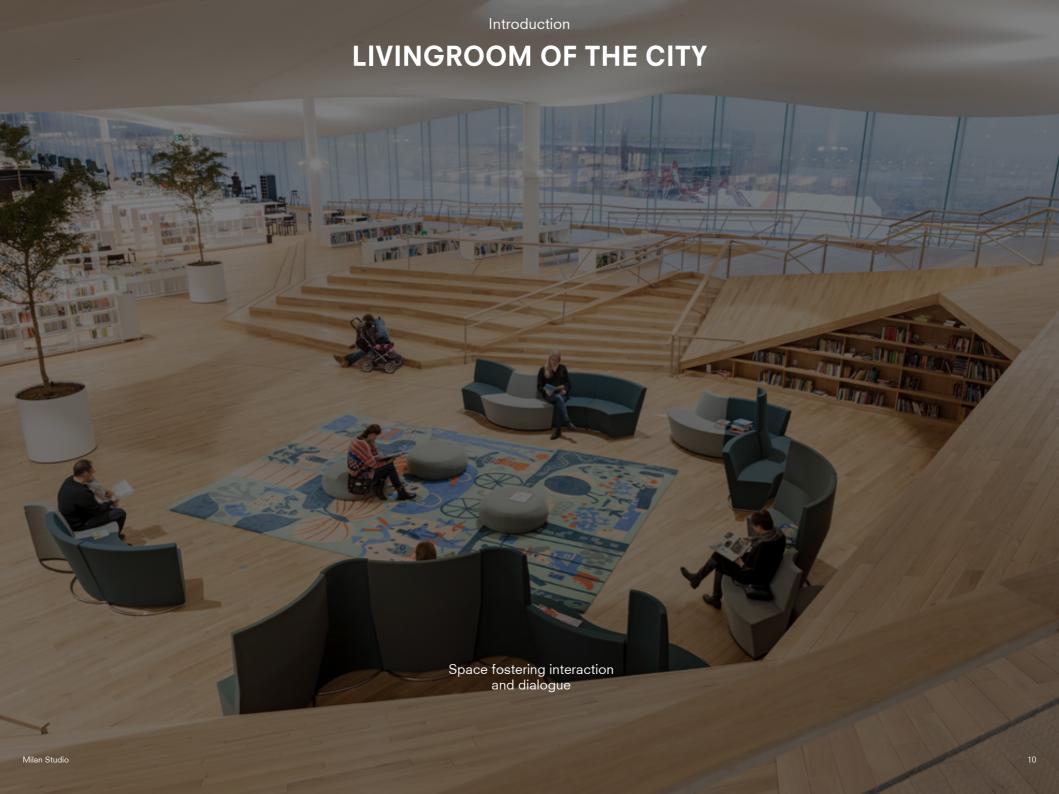
Chicago: ALA (2010)

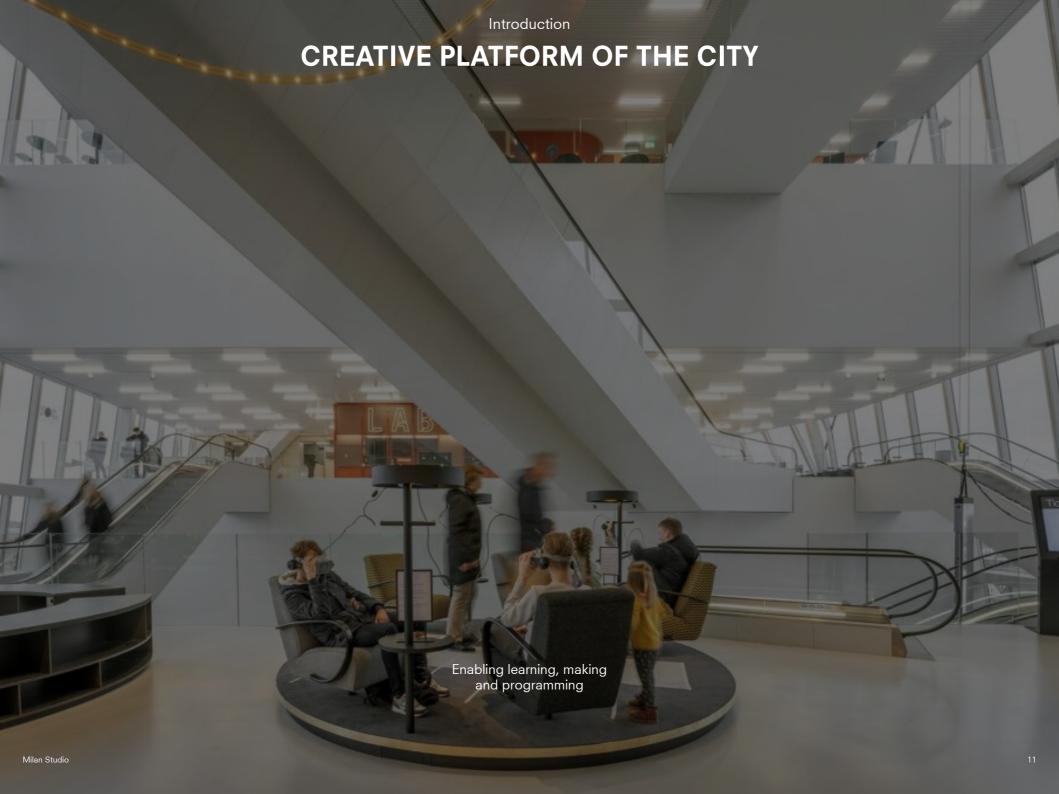
ROLE OF THE LIBRARY



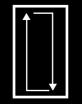
Chicago: ALA (2010)



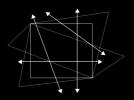




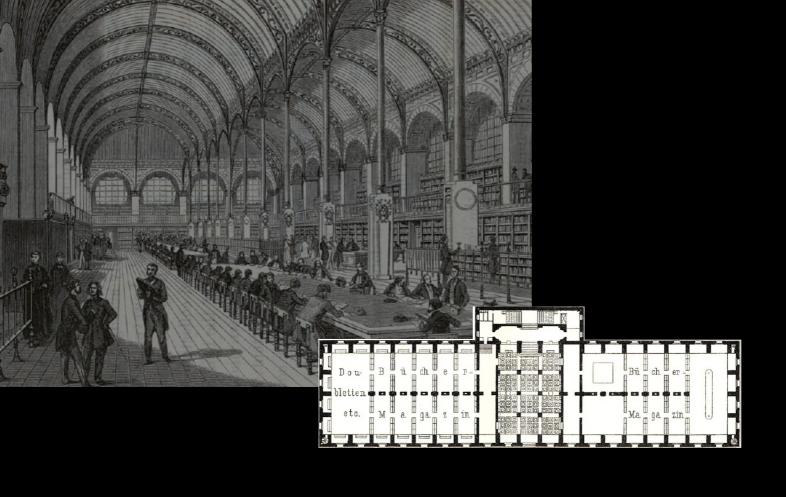
COLLECTION CONNECTION CREATION

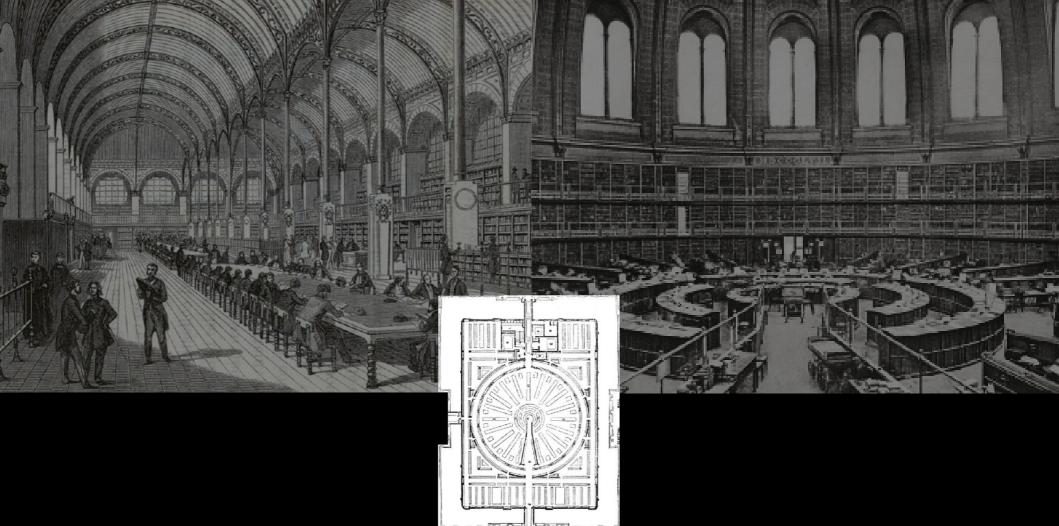


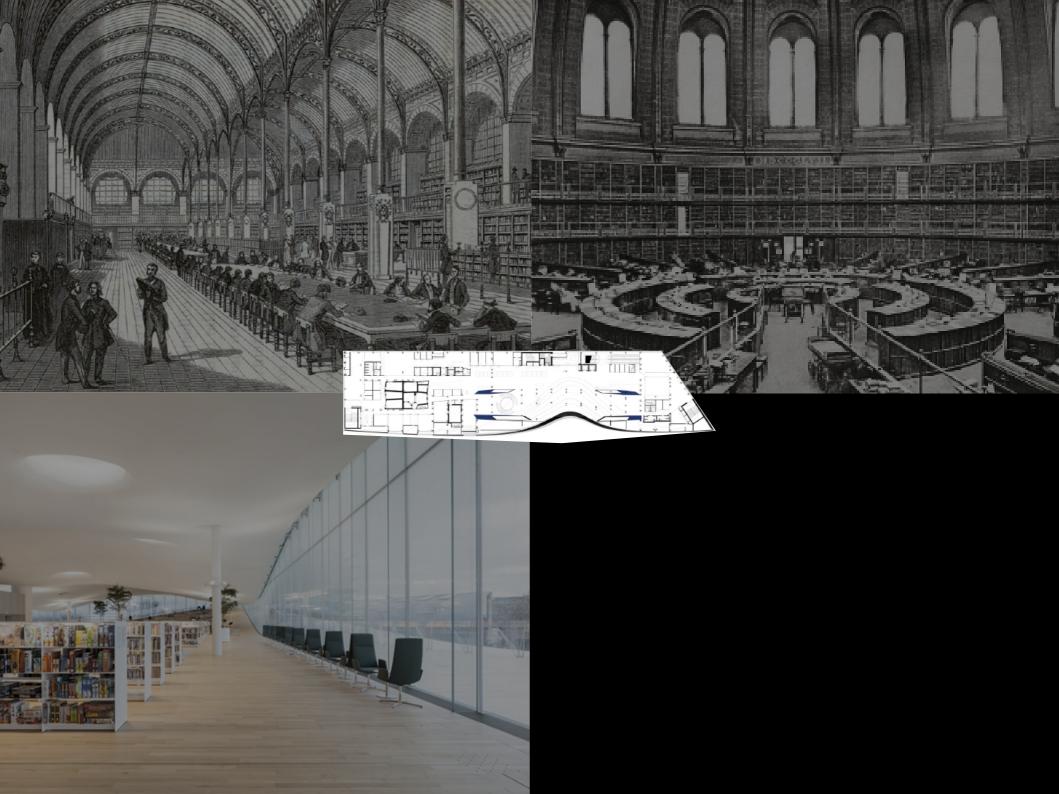
FROM CLOSED SPACES TOWARDS...



...OPEN AND TRANSPARANT ARCHITECTURE

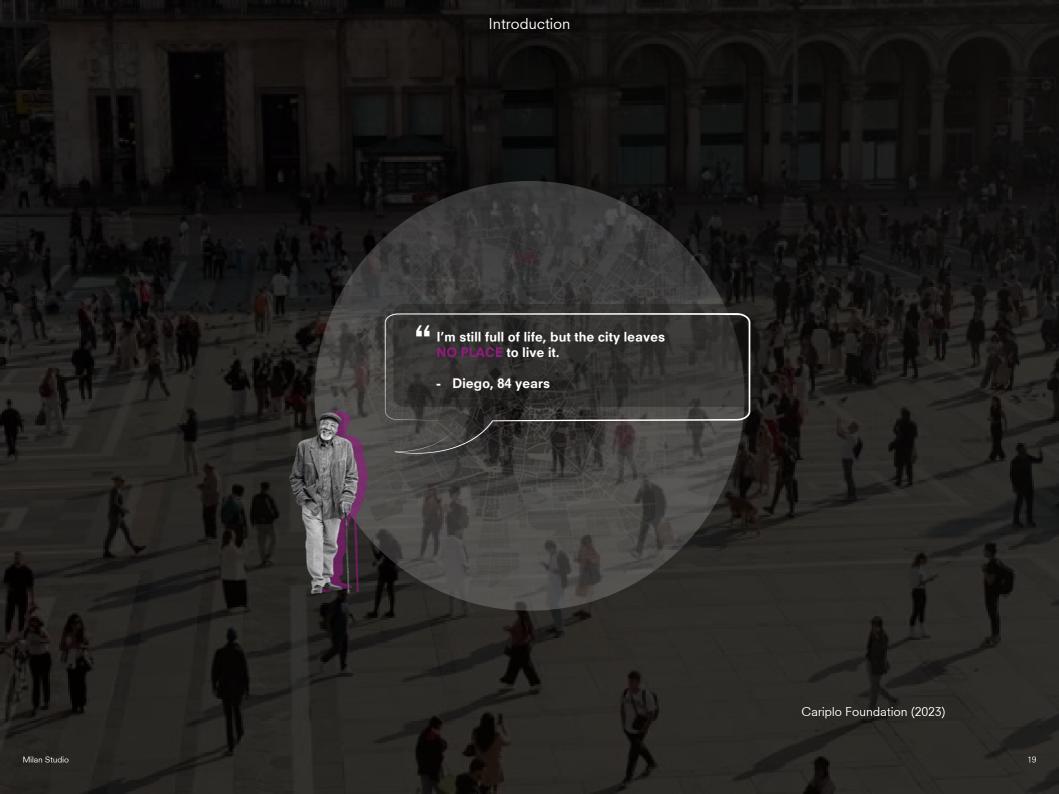


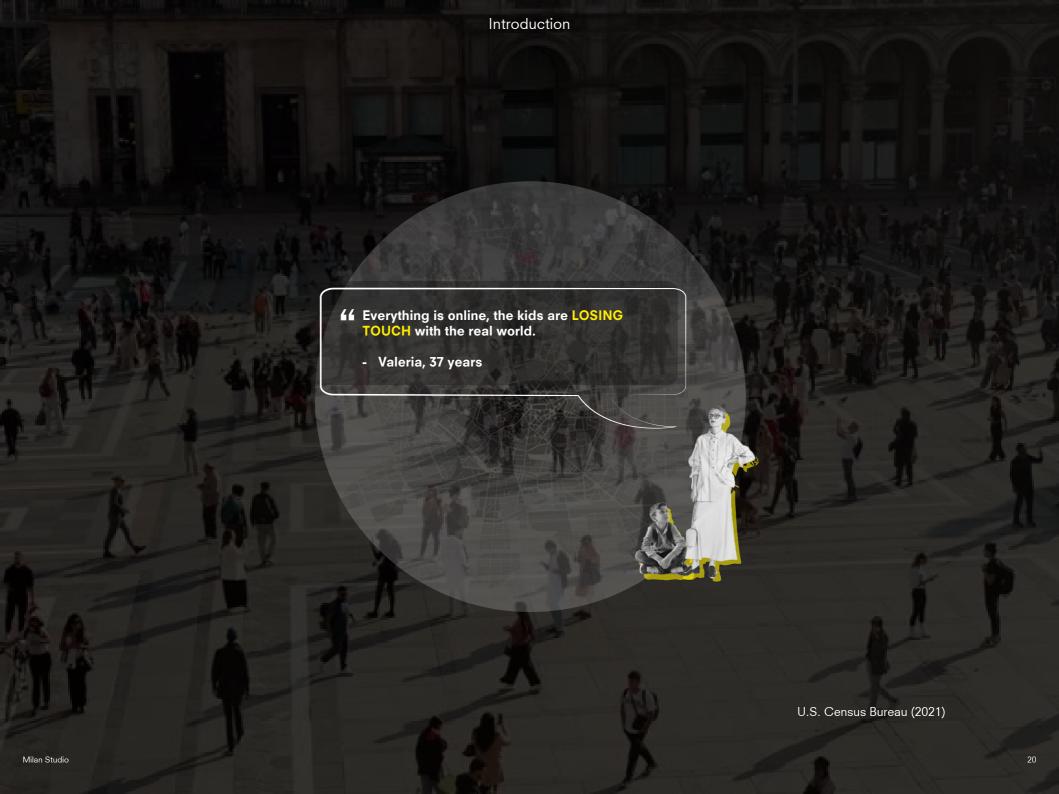


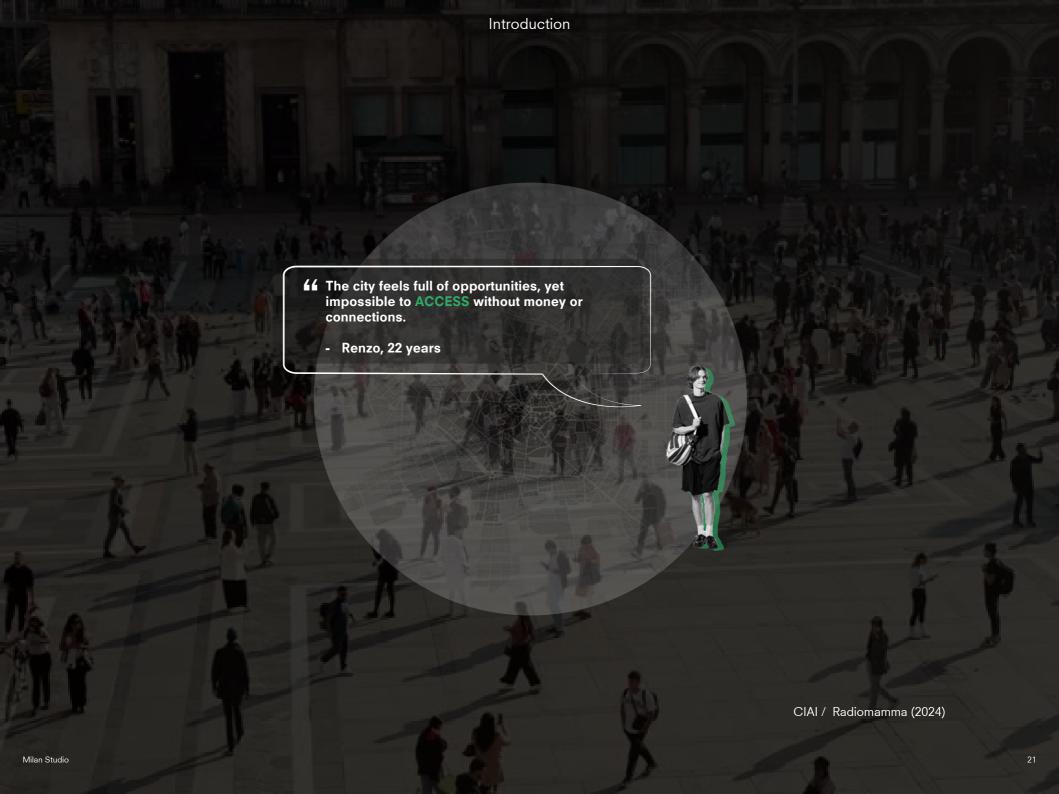


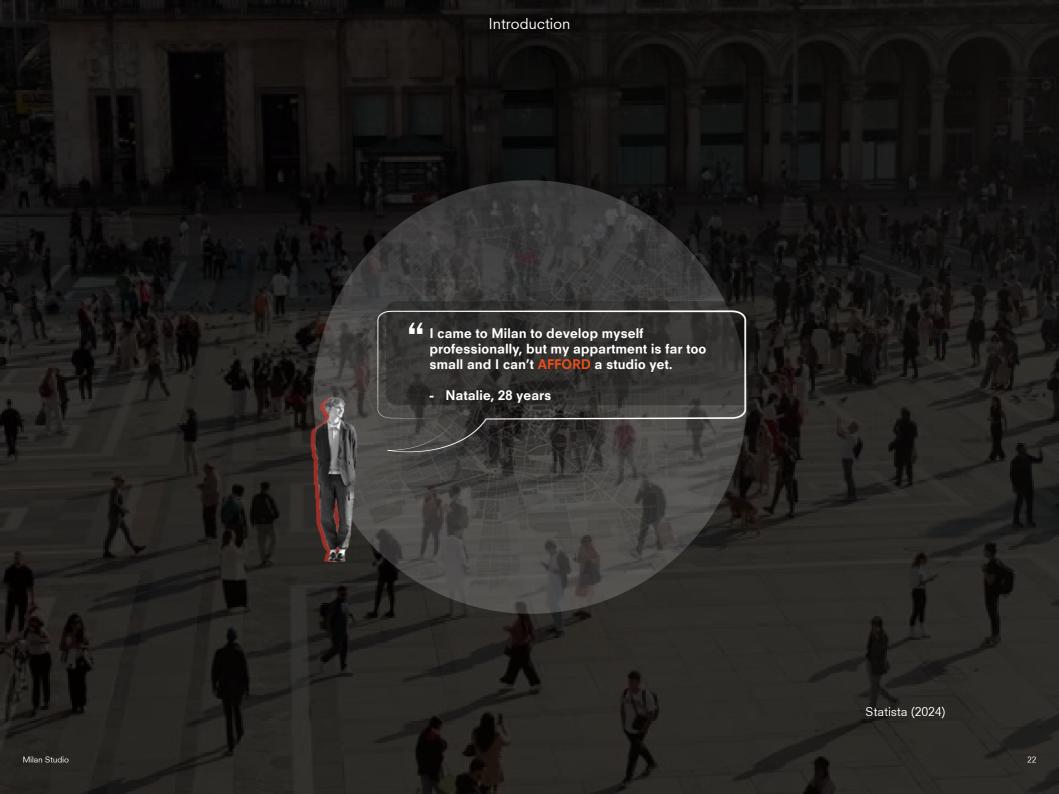




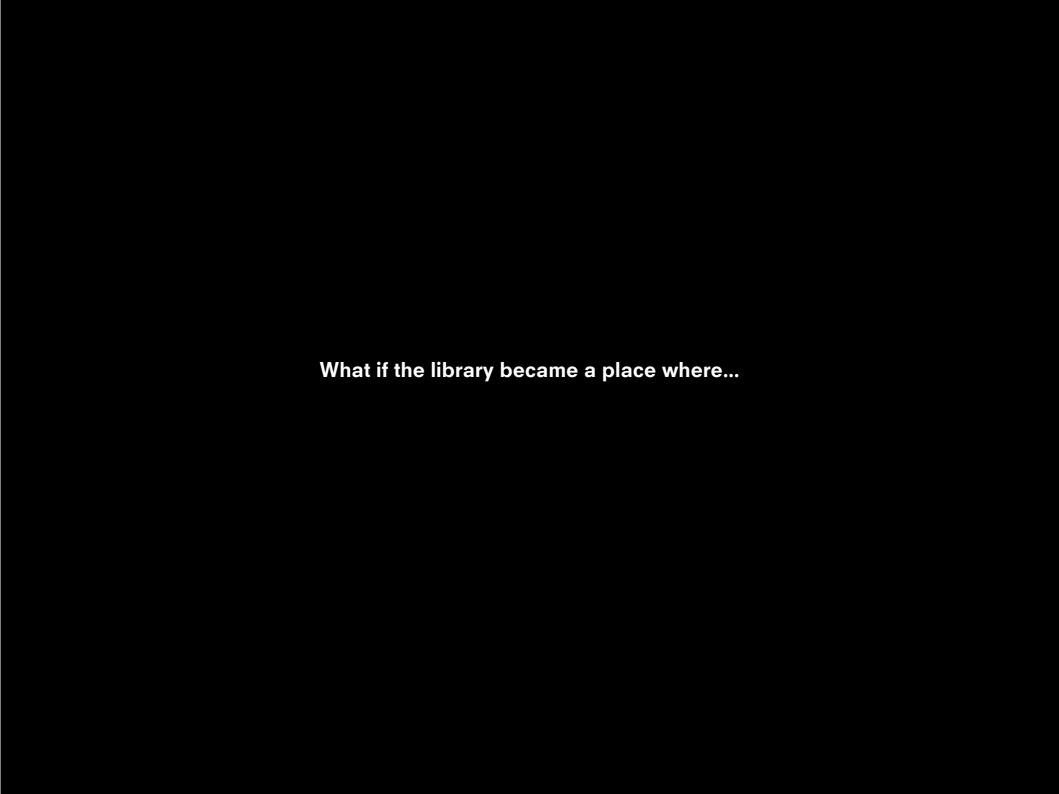












people from different backgrounds can meet, create, and belong.



COLLECTION CONNECTION CREATION

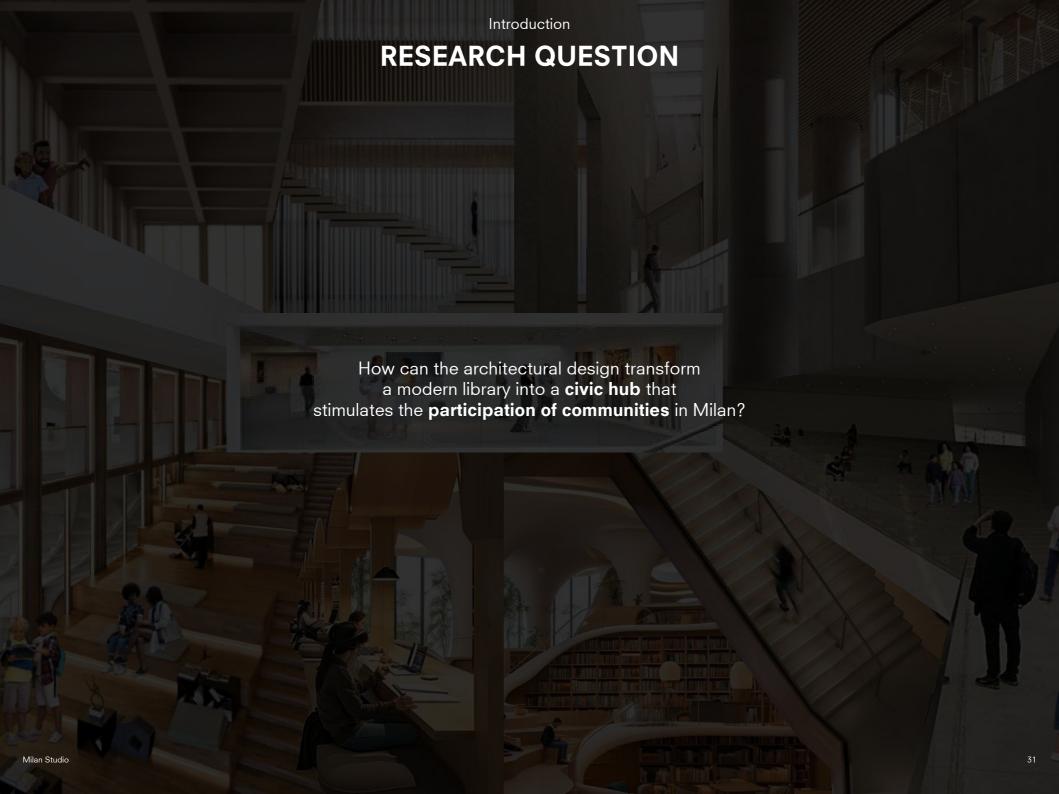
COLLECTION

CONNECTION

CREATION COLLABORATION

CoLab





INTRODUCTION

DESIGN BRIEF

CONCEPT

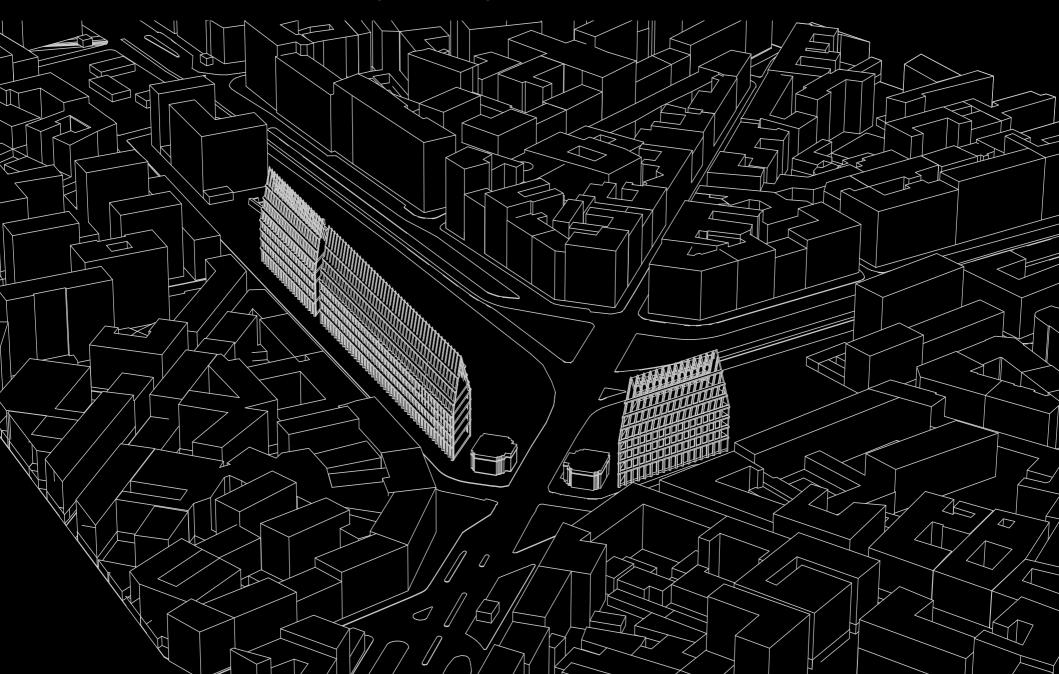
DESIGN

IMPLEMENTATION

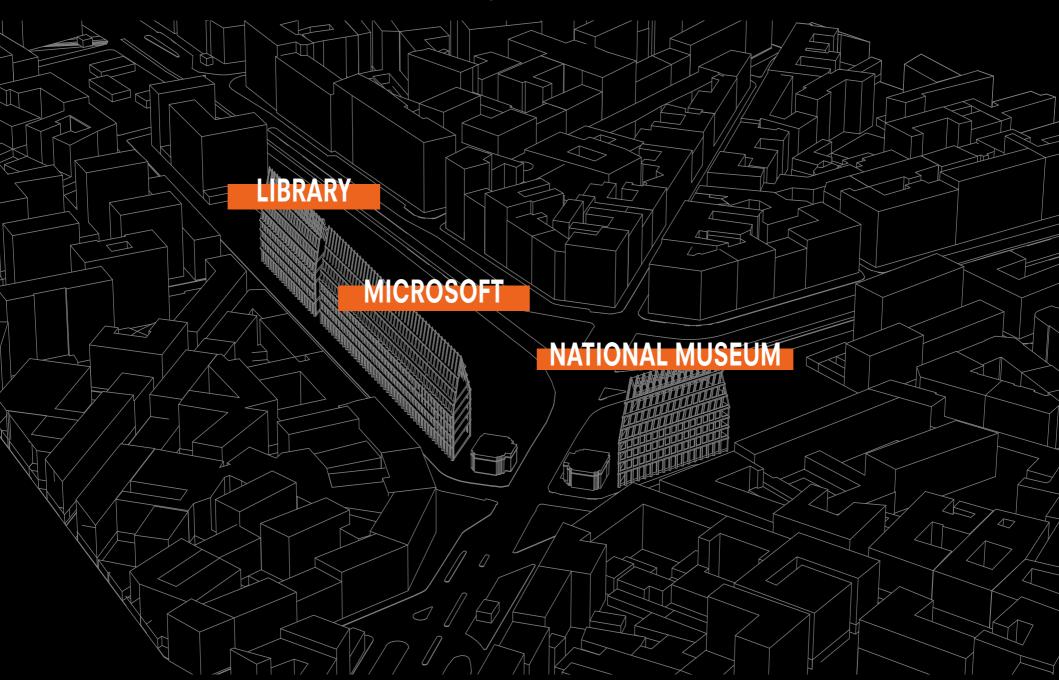
CONCLUSION



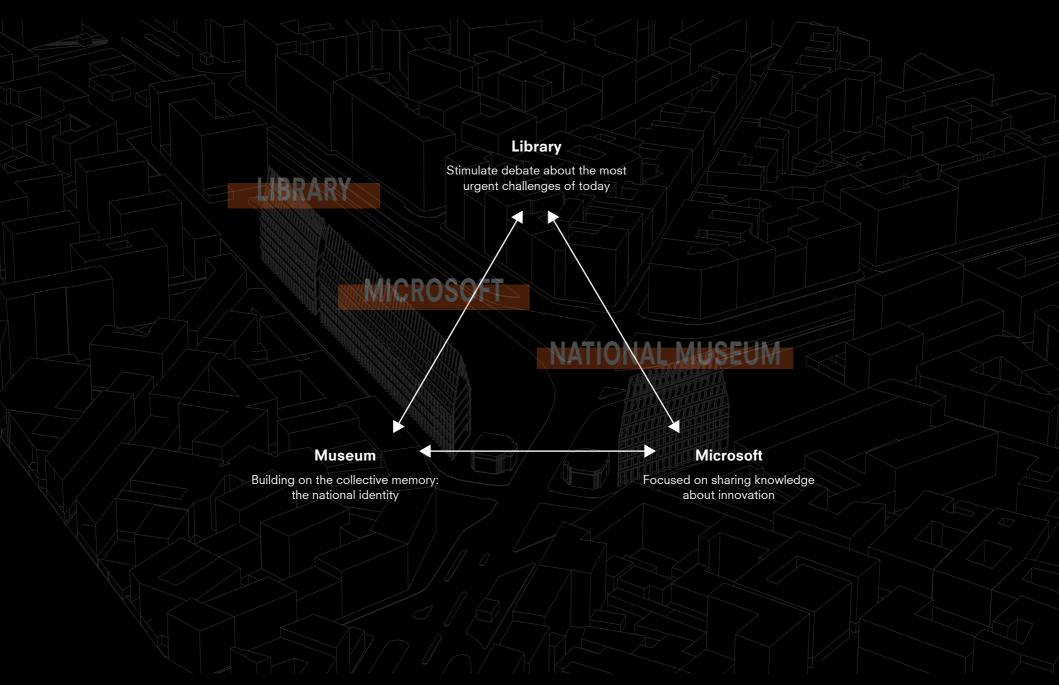
FONDAZIONE FELTRINELLI



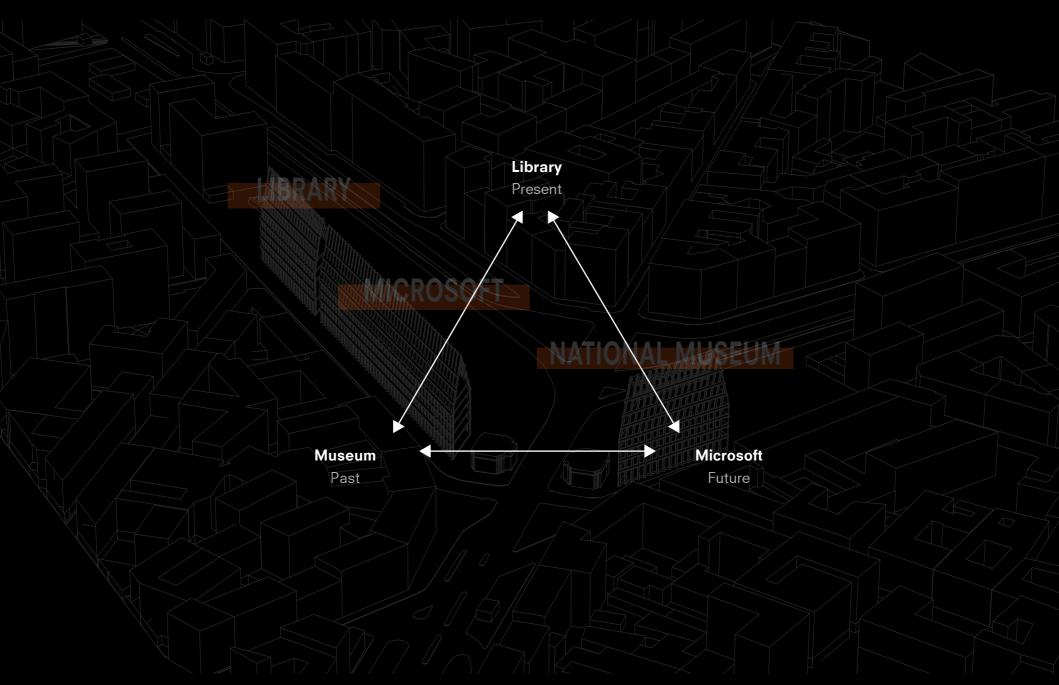
CLIENT



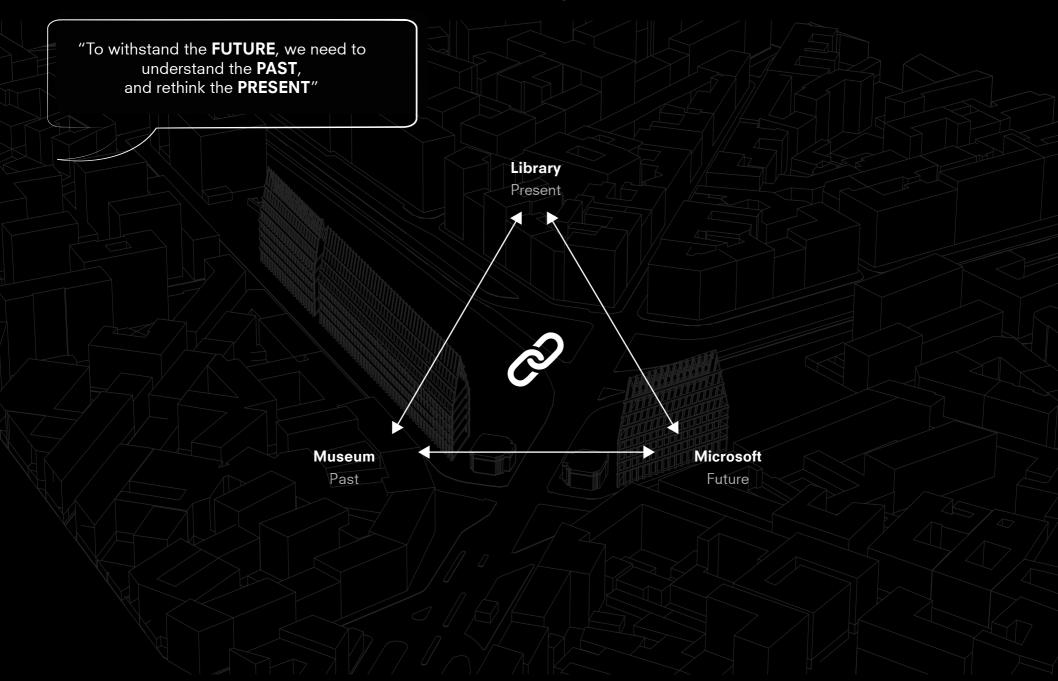
ASPECTS



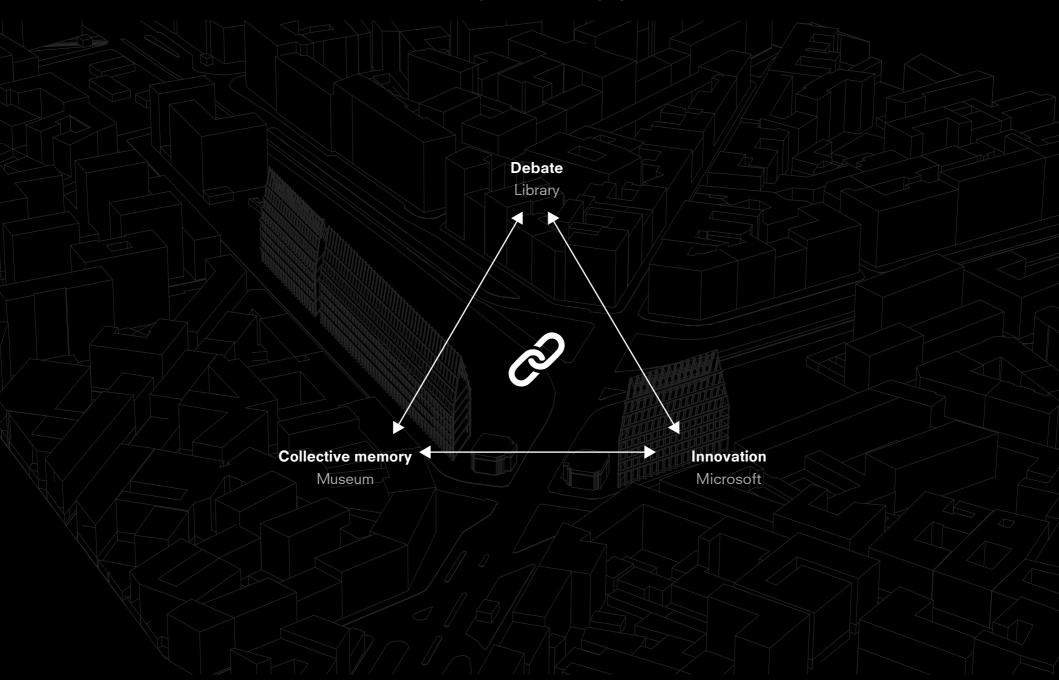
RELATION



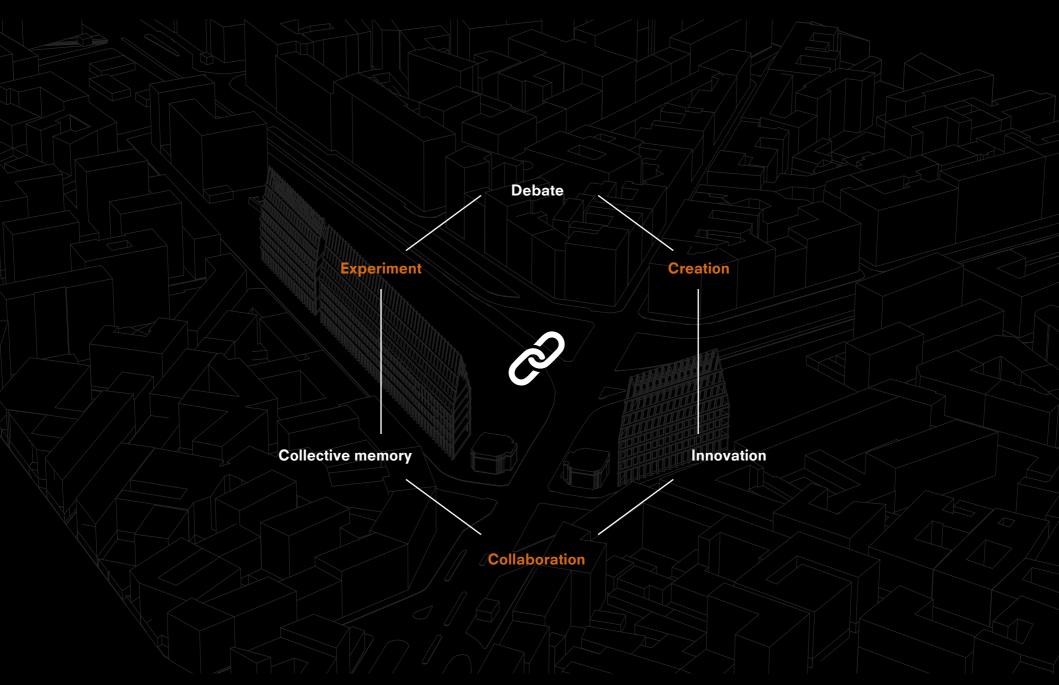
RELATION



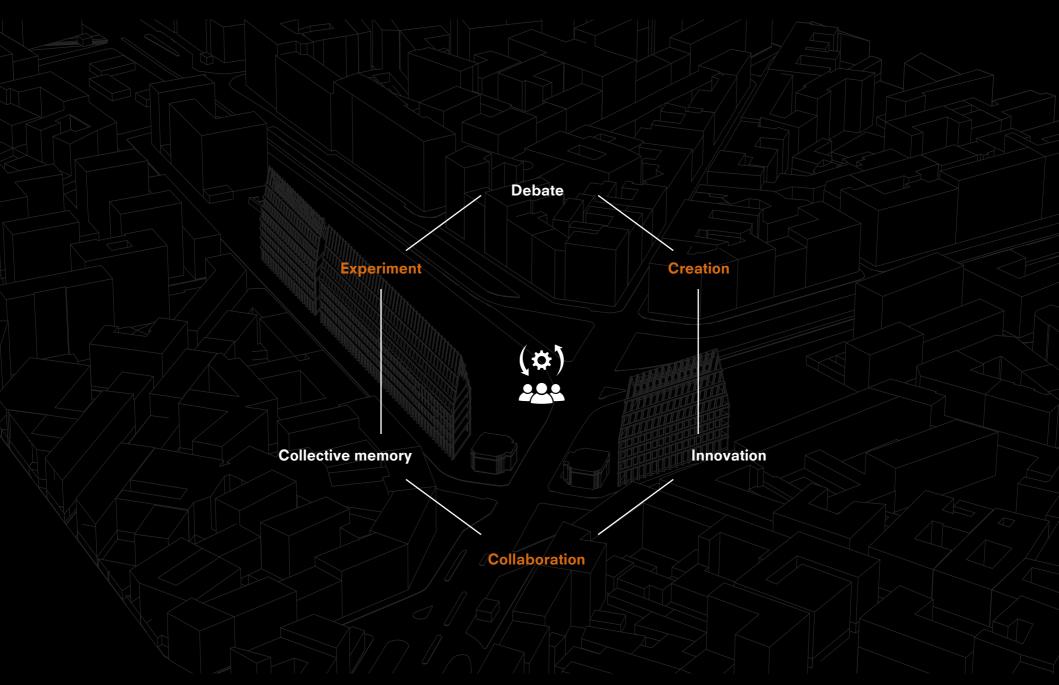
INTERWOVEN PROGRAM



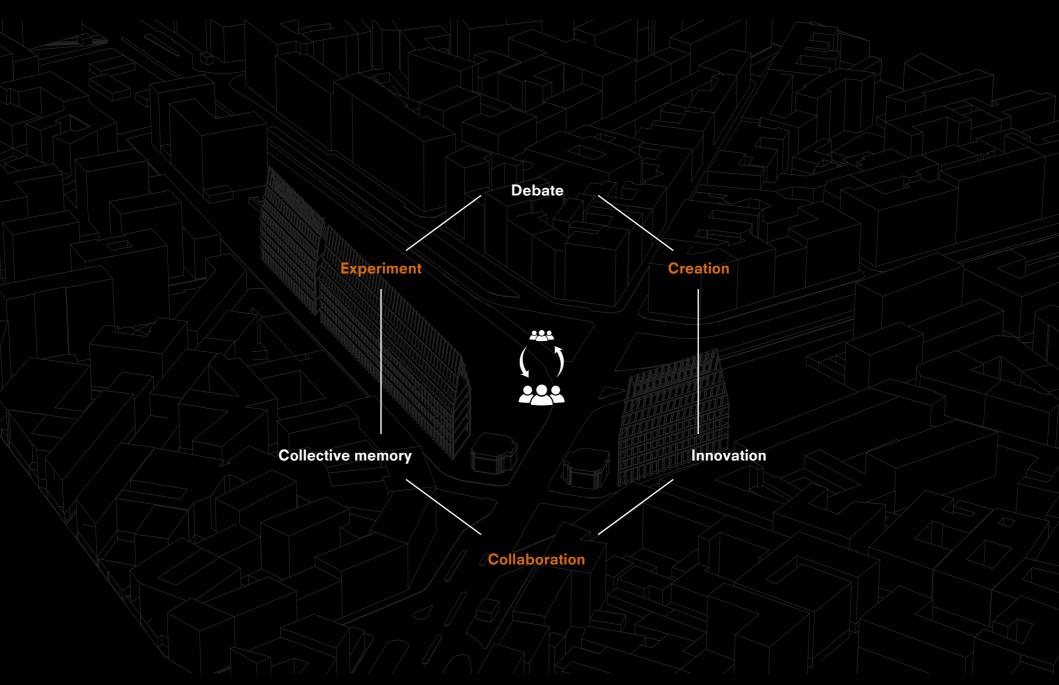
COLLABORATIVE LIBRARY



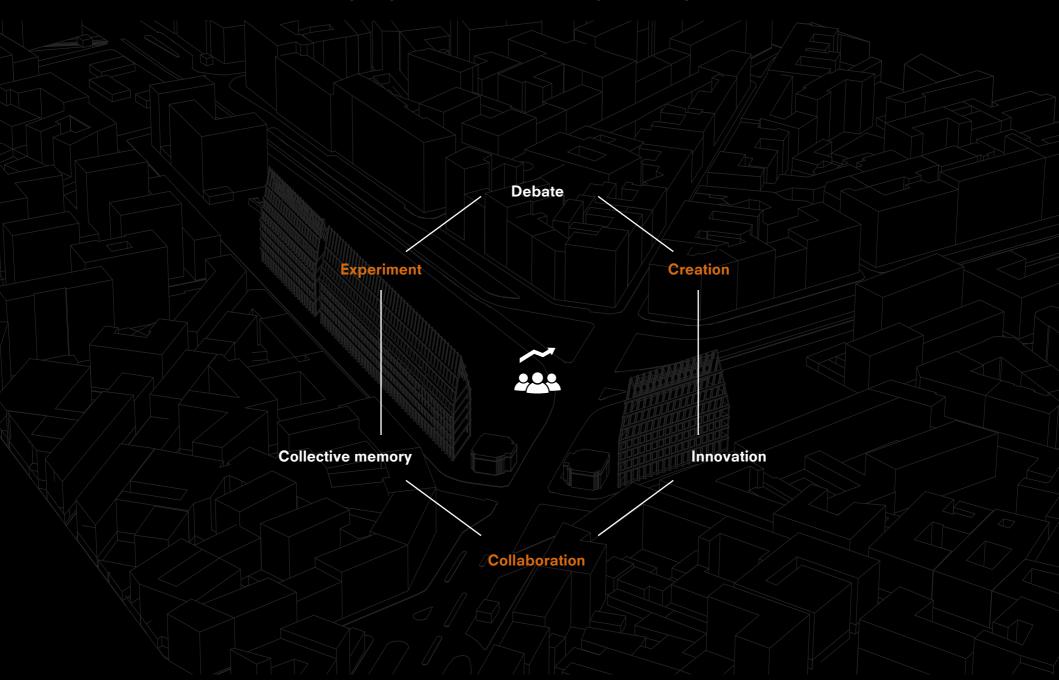
INCREASING KNOWLEDGE



ENHANCING INTERACTION



GROWTH IN PARTICIPATION



PROGRAM



MakerspacesJean-François, 1869
The Knitting Lesson



Claude Monet, 1873 Painting in his garden at Argenteuil

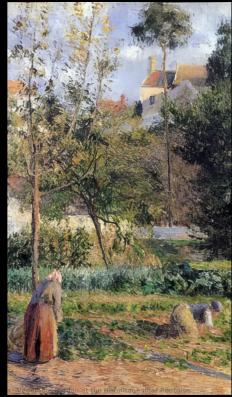
Art studios



Multi media spaces

Edgar Degas, 1870

The Orchestra at the Opera



Community gardens

Clamille Pissarro, 1879

Vegetable Garden at the Hermitage

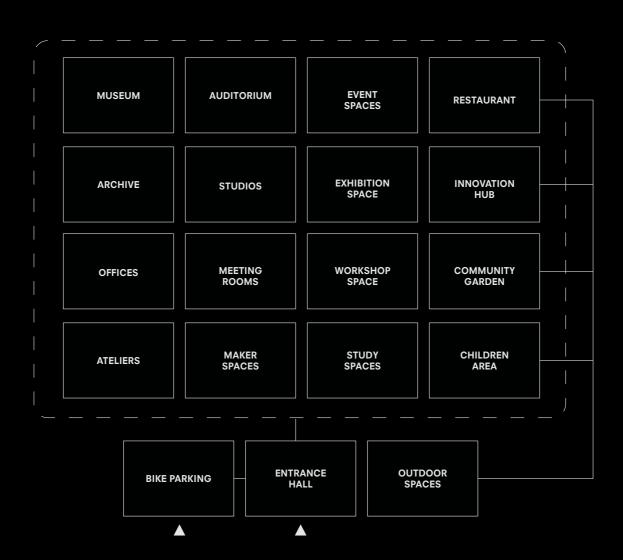
filan Studio

Design Brief

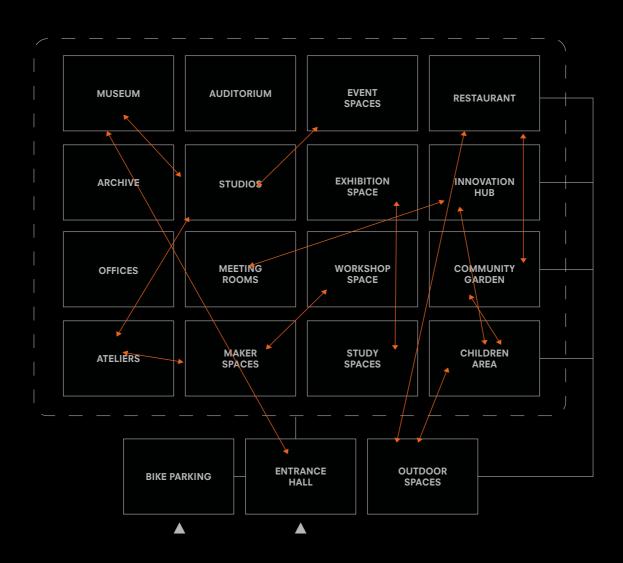
SPACES NEEDED

PRIVATE	SHARED		PUBLIC
MUSEUM	AUDITORIUM	EVENT SPACES	RESTAURANT
ARCHIVE	STUDIOS	EXHIBITION SPACE	INNOVATION HUB
OFFICES	MEETING ROOMS	WORKSHOP SPACE	COMMUNITY GARDEN
ATELIERS	MAKER SPACES	STUDY SPACES	CHILDREN AREA

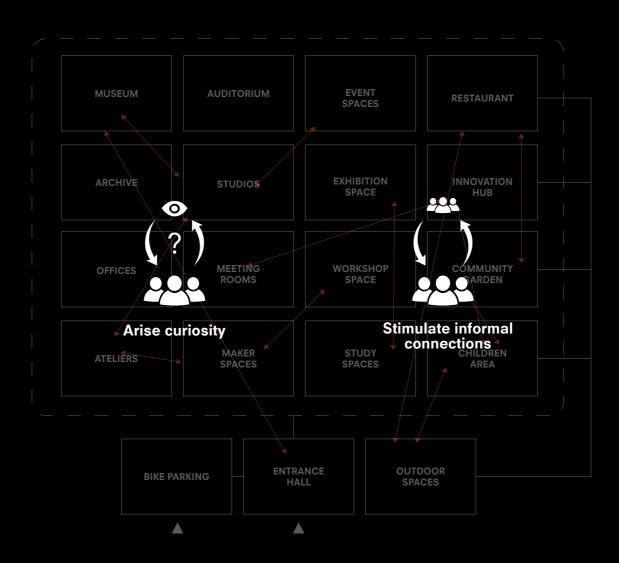
RELATION SCHEME



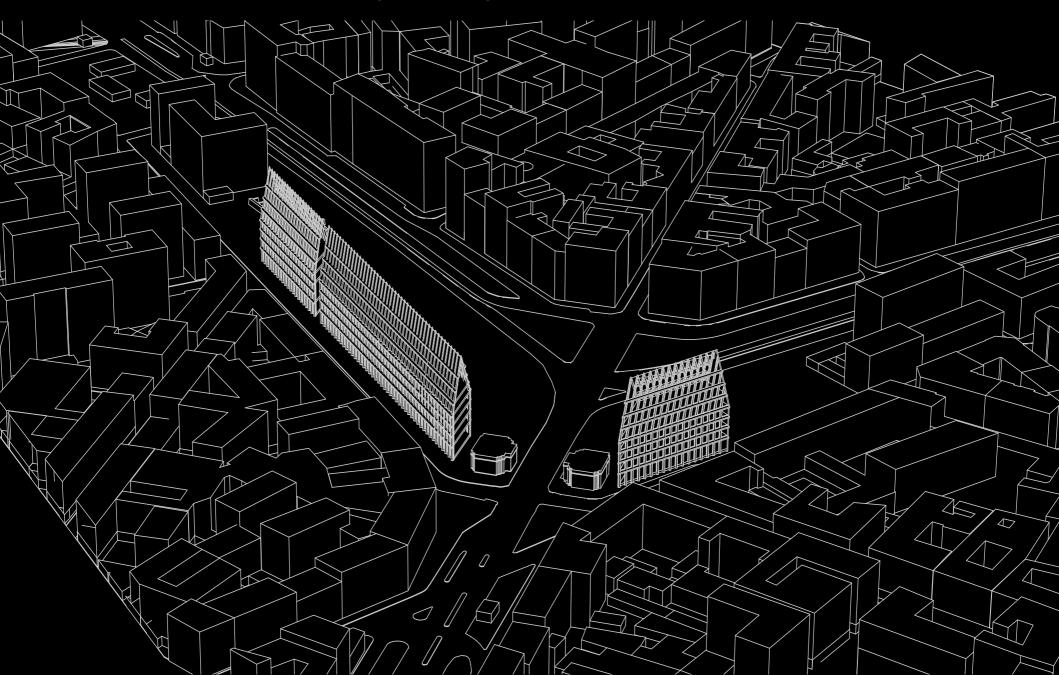
VISUALLY CONNECTED



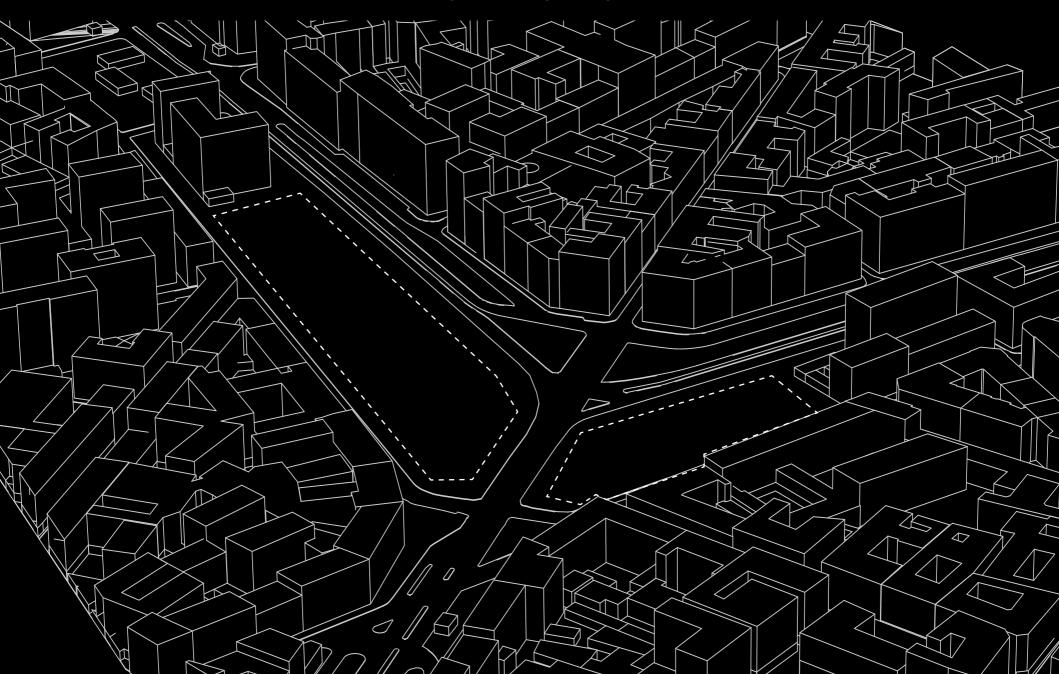
STIMULATE PARTICIPATION



FONDAZIONE FELTRINELLI



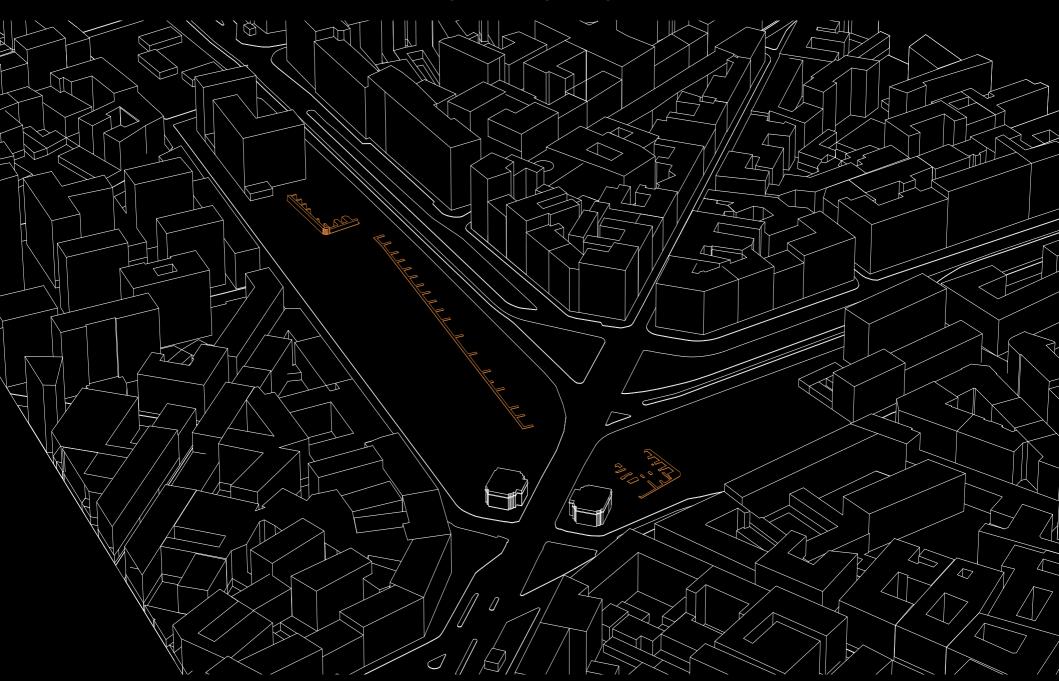
BUILDING PLOT



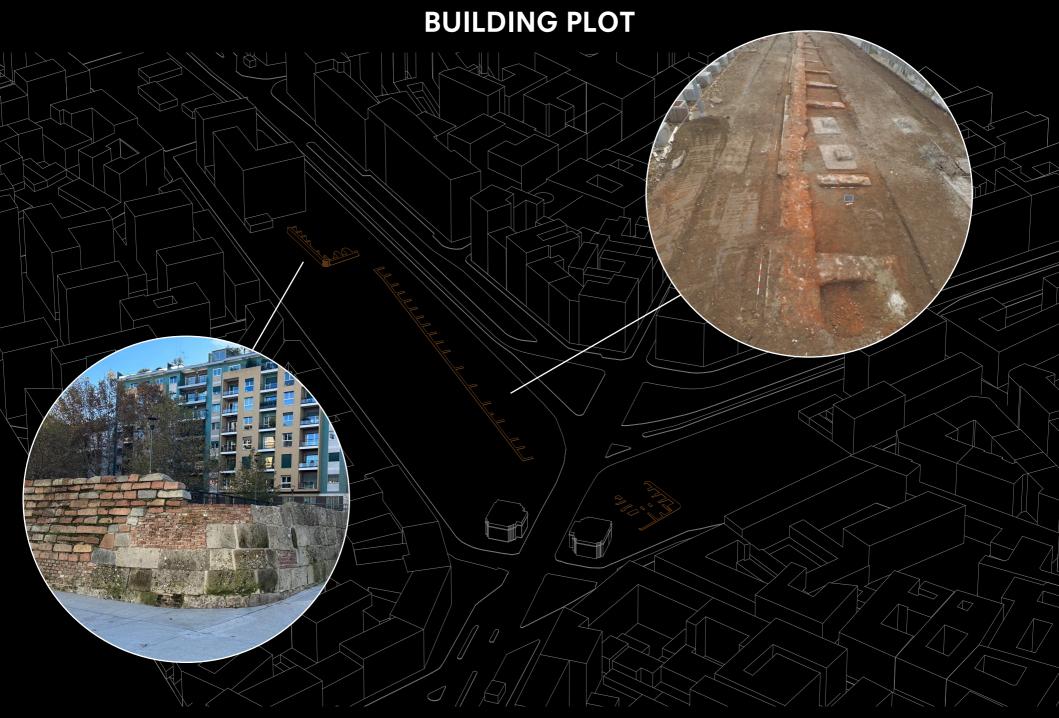
Design Brief LOCATION Mura Spagnole 1560 a.C. Mura Medievale 1160 a.C. Mura Romane 49 a.C.

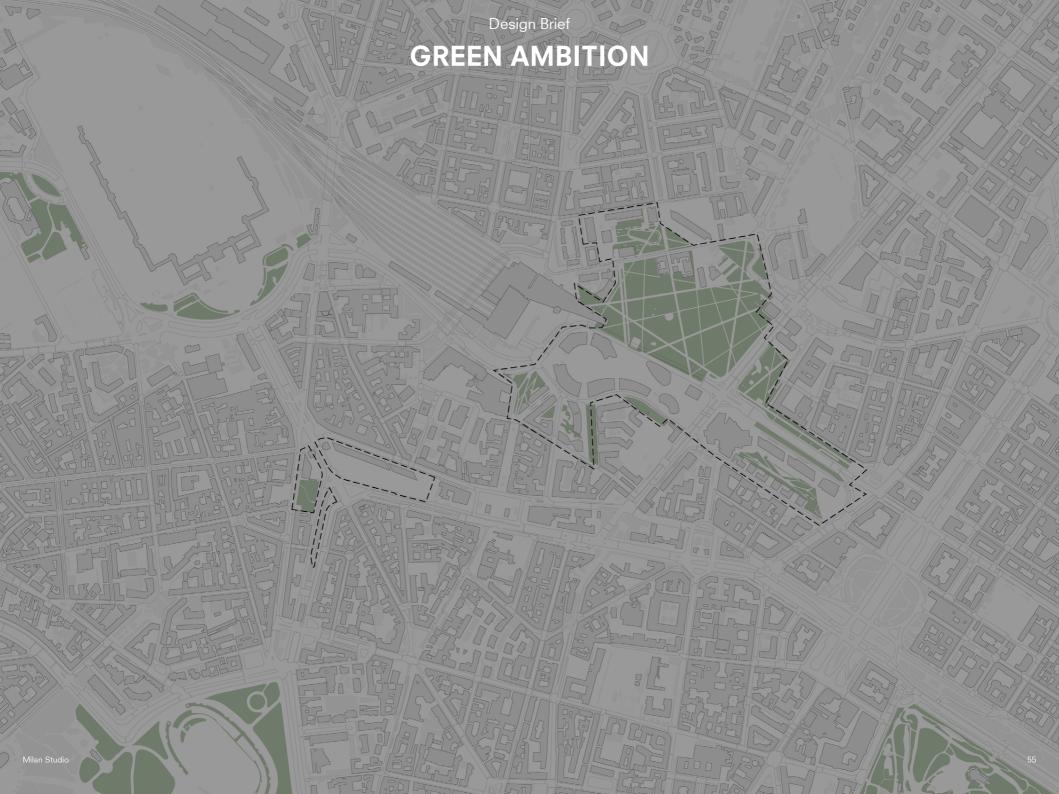
Design Brief TRANSITIONAL ZONE **EXPANSION OF THE CITY** HISTORICAL CENTER

BUILDING PLOT

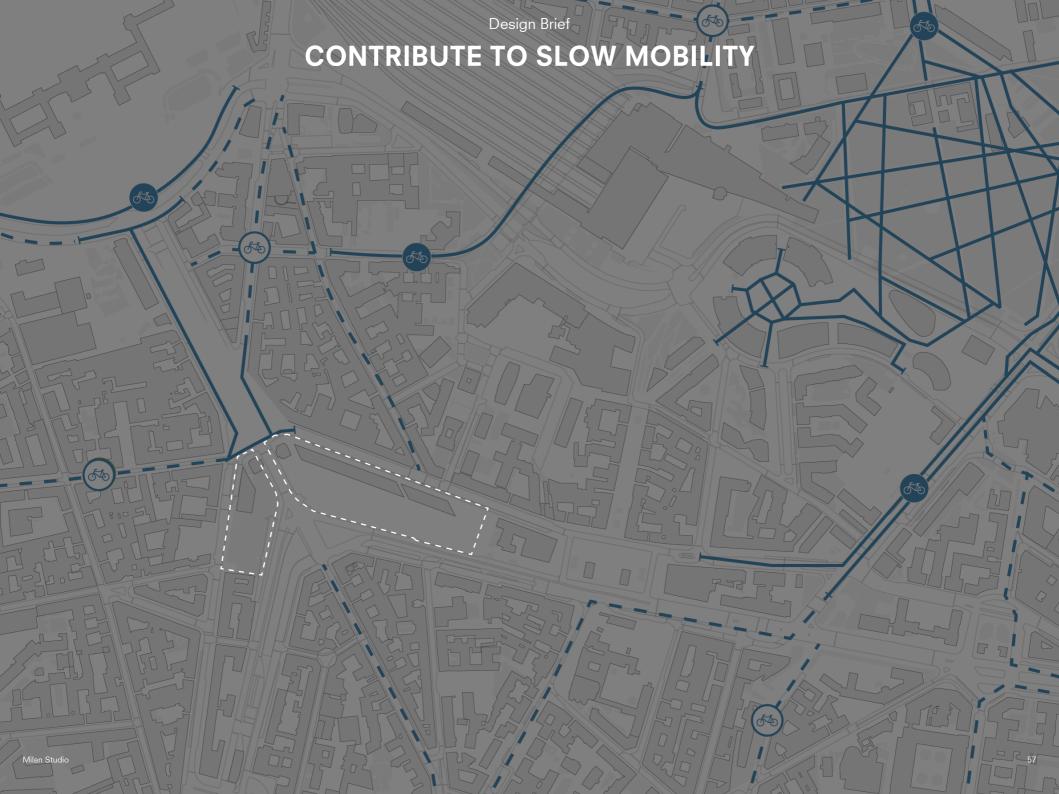


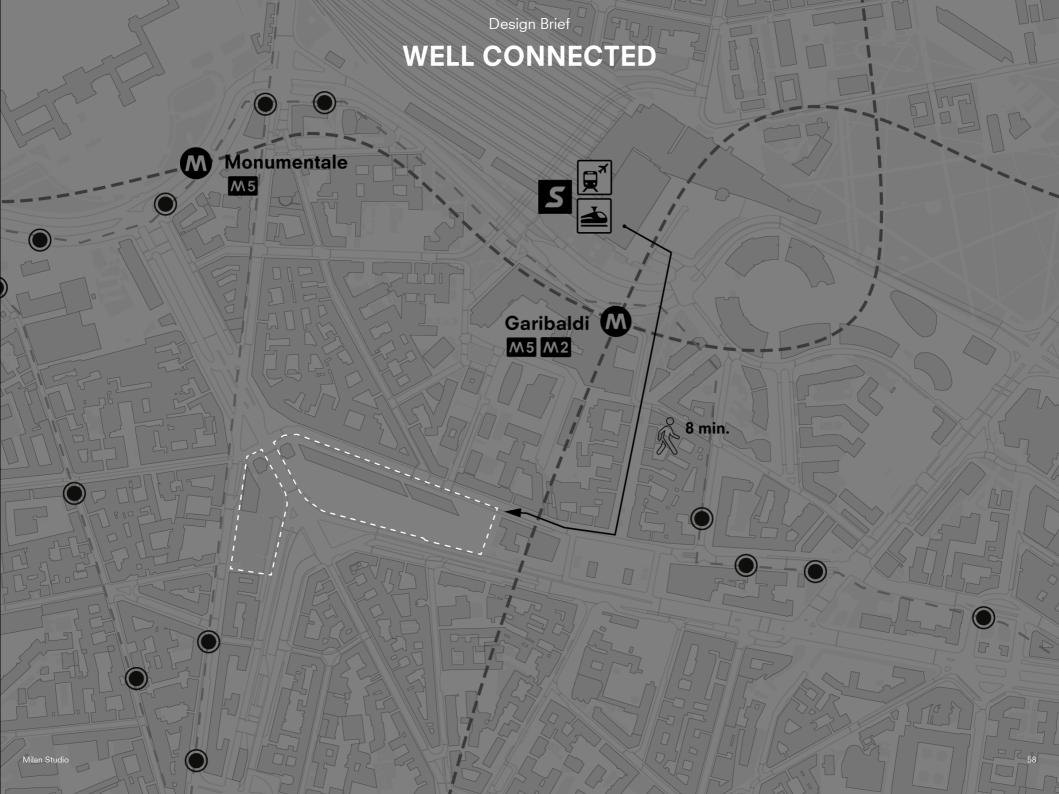
Design Brief















INTRODUCTION

DESIGN BRIEF

CONCEPT

DESIGN

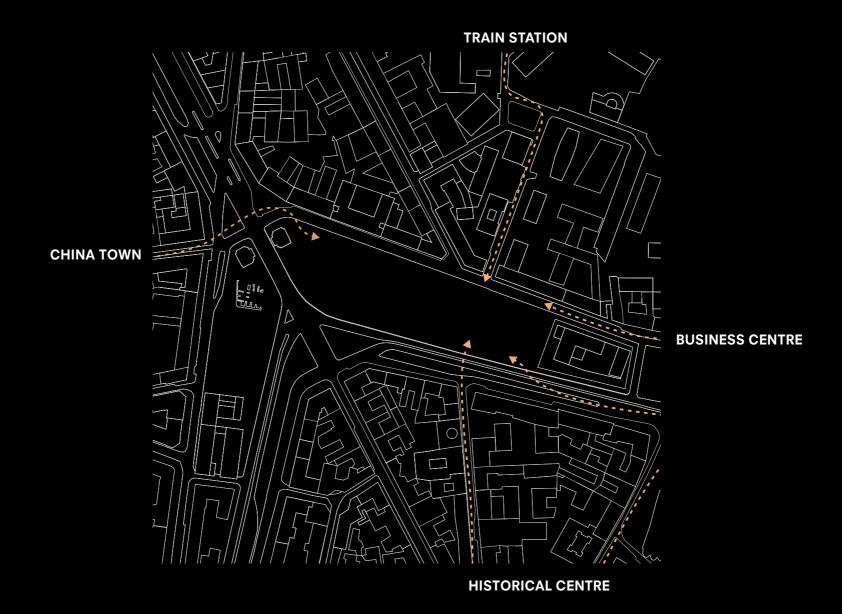
IMPLEMENTATION

CONCLUSION

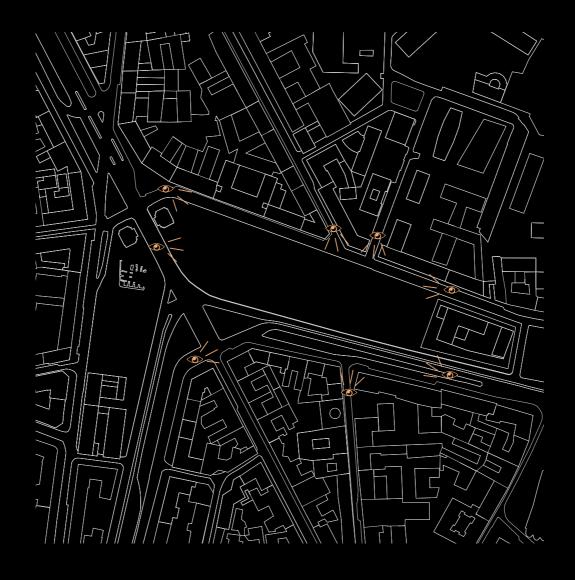
CURRENT DESIGN PROBLEMS



ACCESS



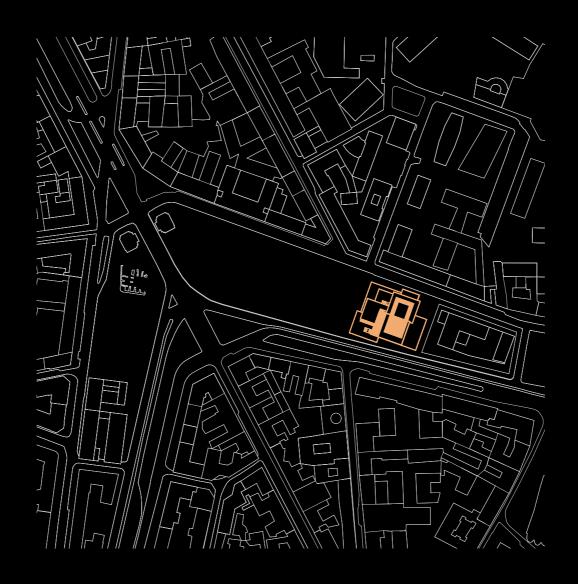
SIGHTLINES



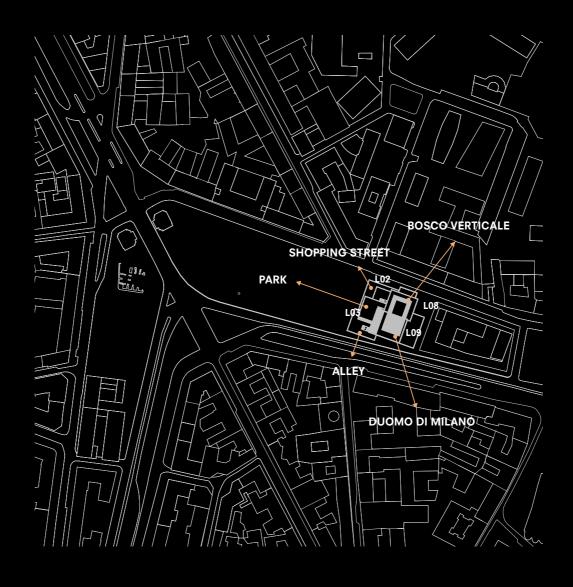
URBAN CONFIGURATION



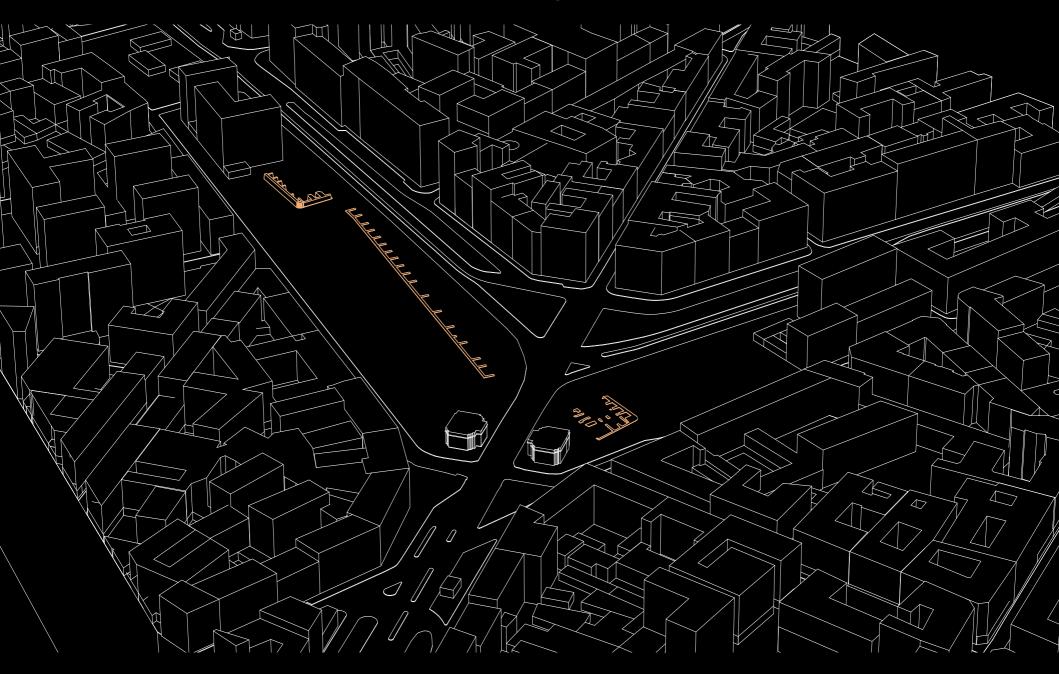
BUILDING VOLUME



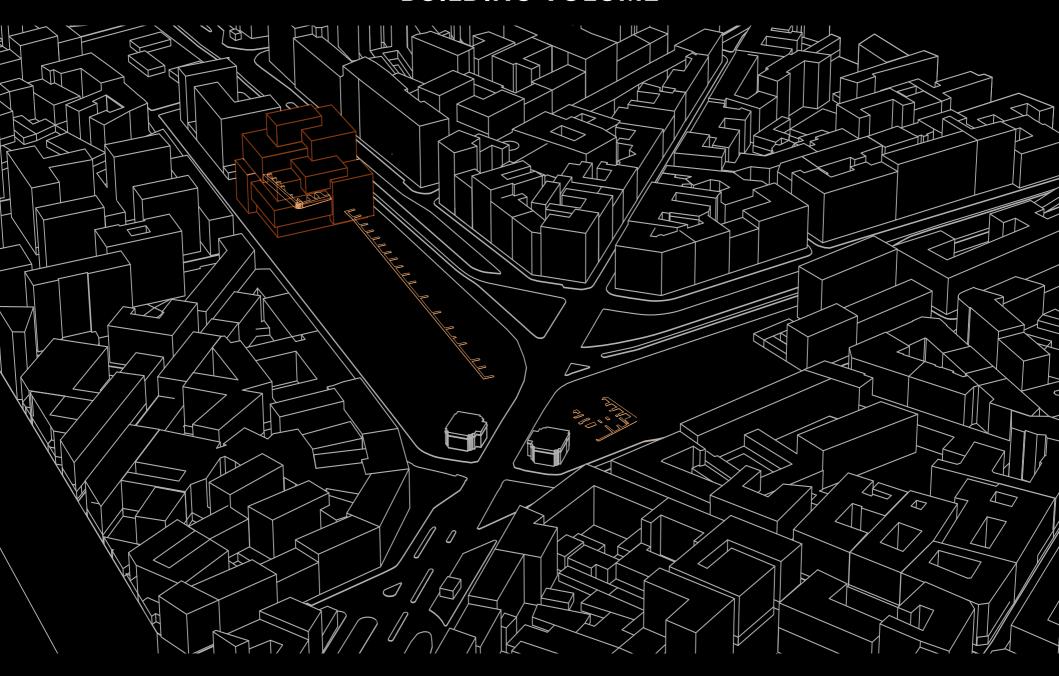
VIEW POINTS



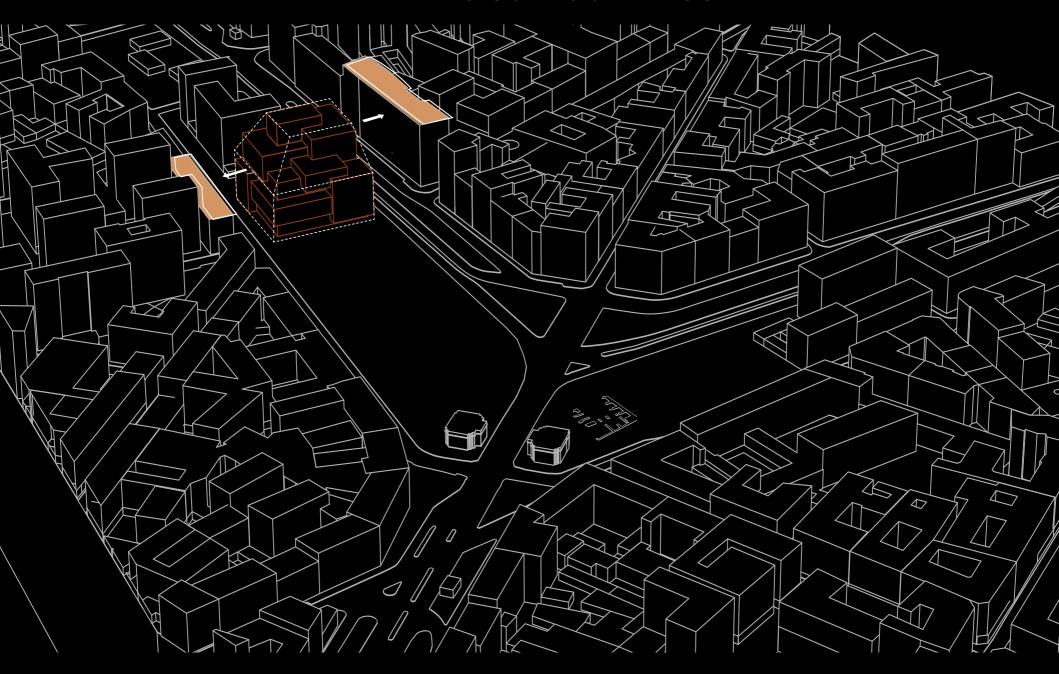
EMPTY SITE



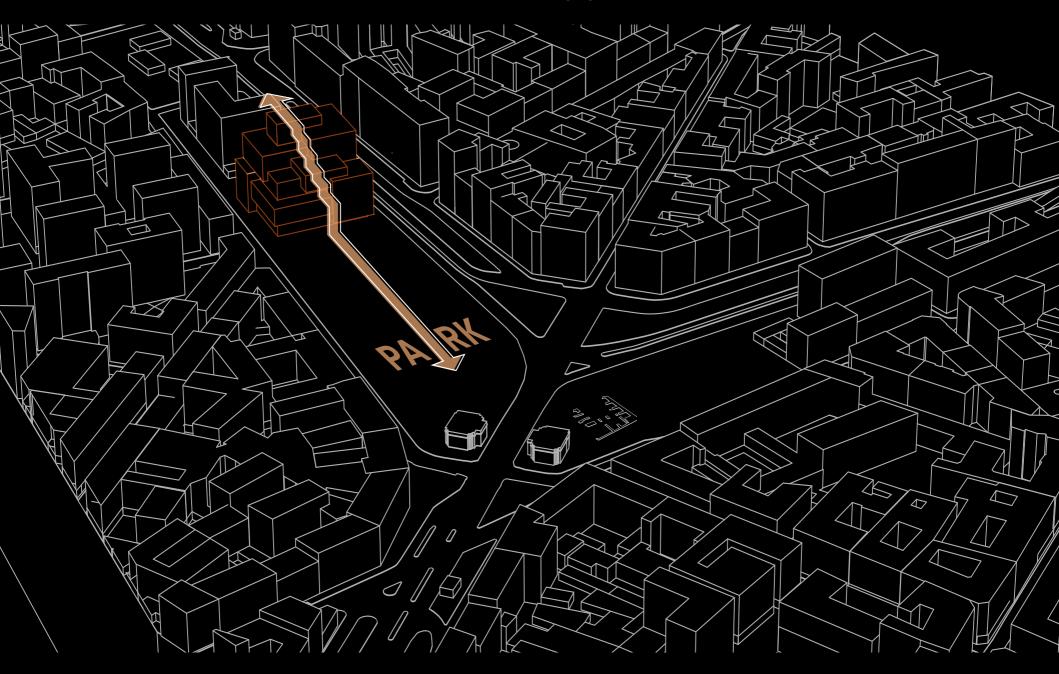
BUILDING VOLUME



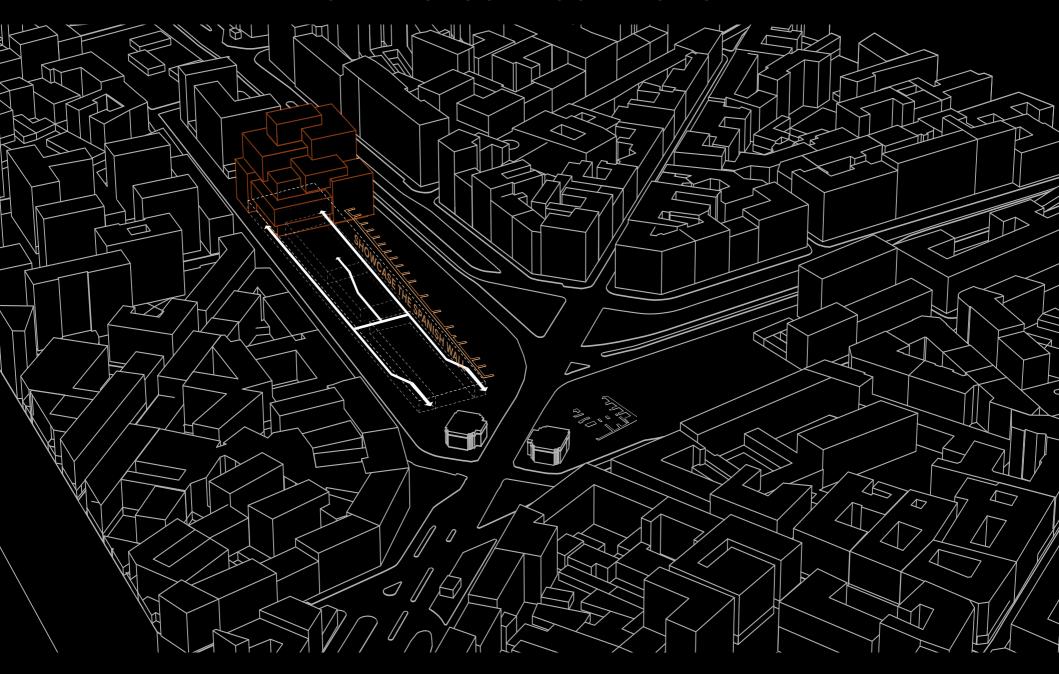
ADAPT TO SURROUNDINGS



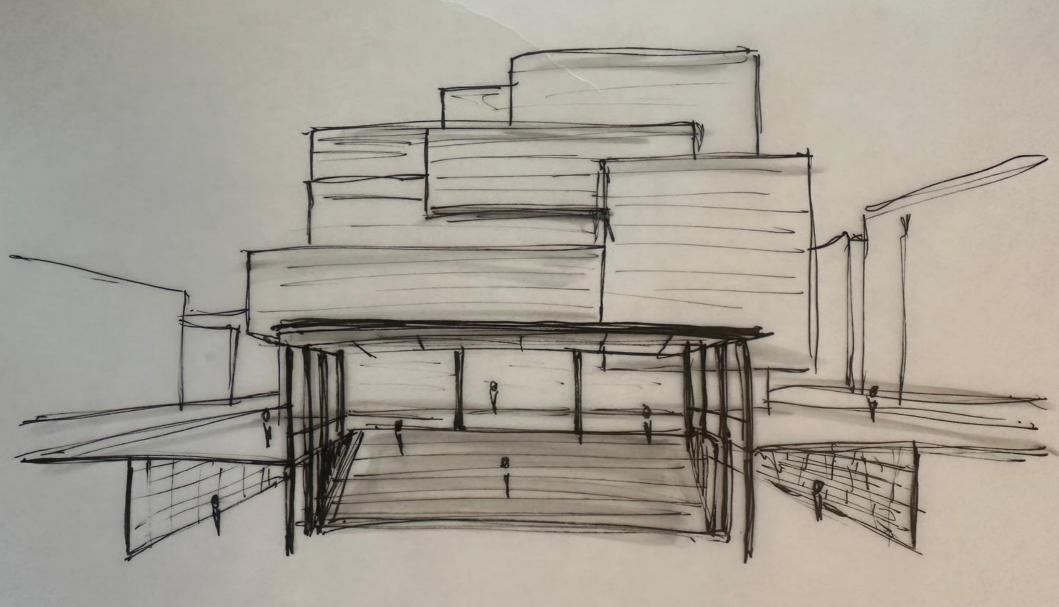
LAYERED PROGRAM



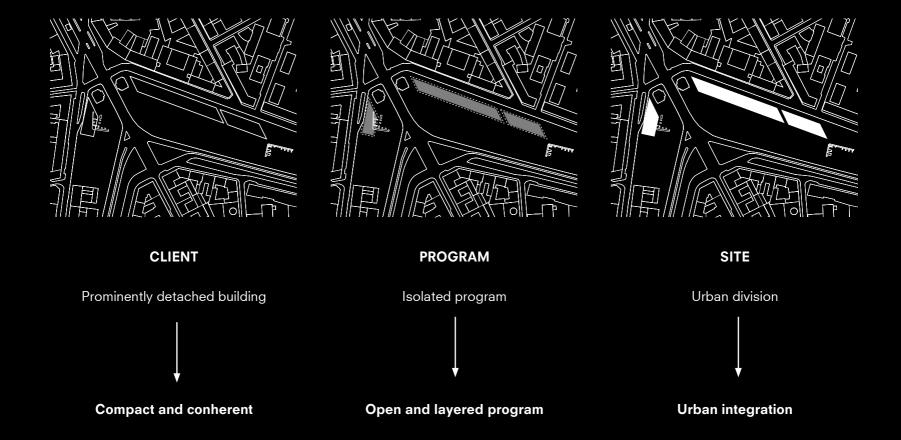
UNDERGROUND CONNECTION



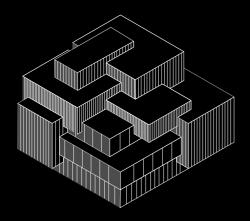
UNDERGROUND CONNECTION



CONCLUSION

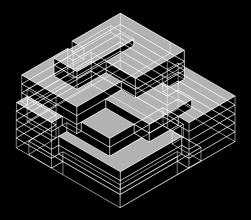


CONCLUSION



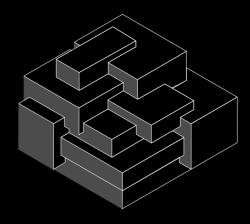
Compact and coherent

Invites interaction and encourages participation.



Open and layered program

Blur the boundaries between the library and it surroundings.

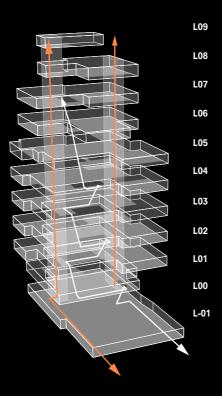


Urban integration

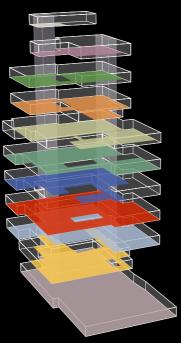
Creates connection as a transitional zone.



OVERVIEW



PROGRAM OVERVIEW



VIEW DECK

ROOFTERRACE

FOOD LAB

ECO LAB

WONDER LAB CHILDREN AREA

BOOK NOOK

ARCHIVE AND READING SPACE

SMART CITY LAB

CRAFT LAB

MUSEUM

EXHIBITION SPACE

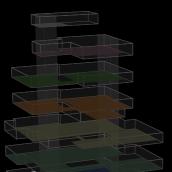
THE PORTAL

ENTRANCE

FORTRESS LAB

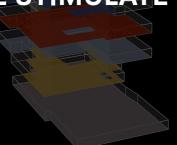
STORY WALL AND EVENT SPACES

PROGRAM OVERVIEW



VIEW DECK

HOW DO WE STIMULATE PARTICIPATION?



SPATIAL TRANSITIONS



Ascending encounters



Constriction as a prelude to collective space

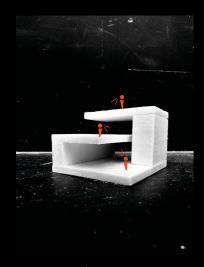


Illumination as a guide to engagement

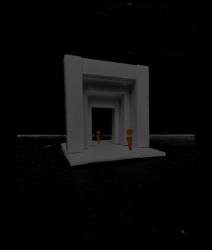


Pull of semi-open

ASCENDING ENCOUNTERS



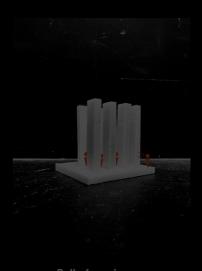
Ascending encounters



Constriction as a prelude to collective space

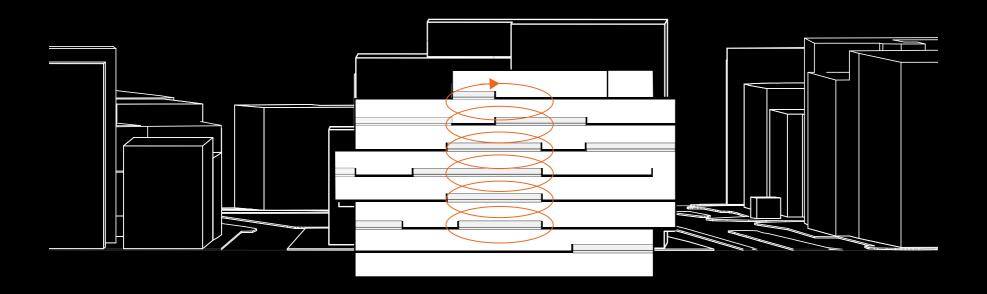


Illumination as a guide to engagement



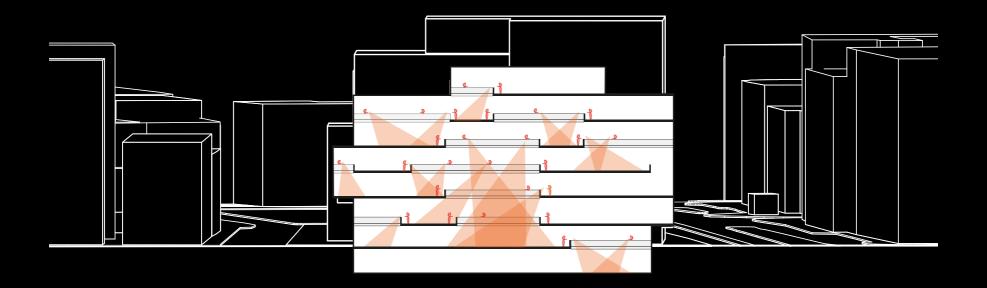
Pull of semi-open

CENTRAL ATRIUM



Central atrium that connects vertically

SPATIAL DISCOVARY



Openings provide long sight lines

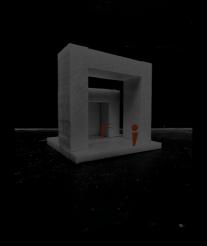
CONSTRICTION



Ascending encounters



Constriction as a prelude to collective space

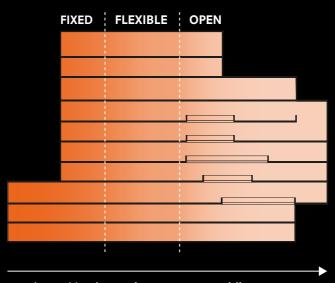


Illumination as a guide to engagement



Pull of semi-open

TRANSITION IN EXPERIENCE



ILLUMINATION



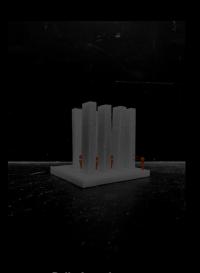
Ascending encounters



Constriction as a prelude to collective space

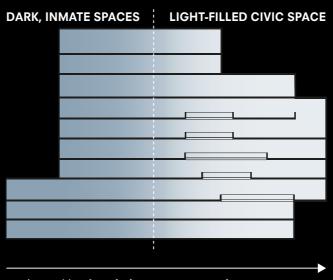


Illumination as a guide to engagement



Pull of semi-open

TRANSITION IN EXPERIENCE

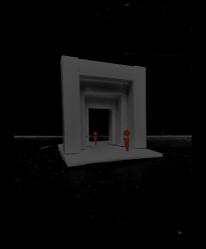


A transition from **intimacy** to **expressive openness**.

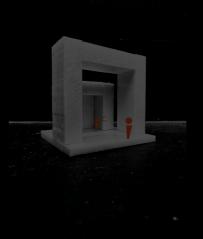
SEMI-OPEN



Ascending encounters



Constriction as a prelude to collective space



Illumination as a guide to engagement



Pull of semi-open

INTEGRATED BOOKSHELVES











INTRODUCTION

DESIGN BRIEF

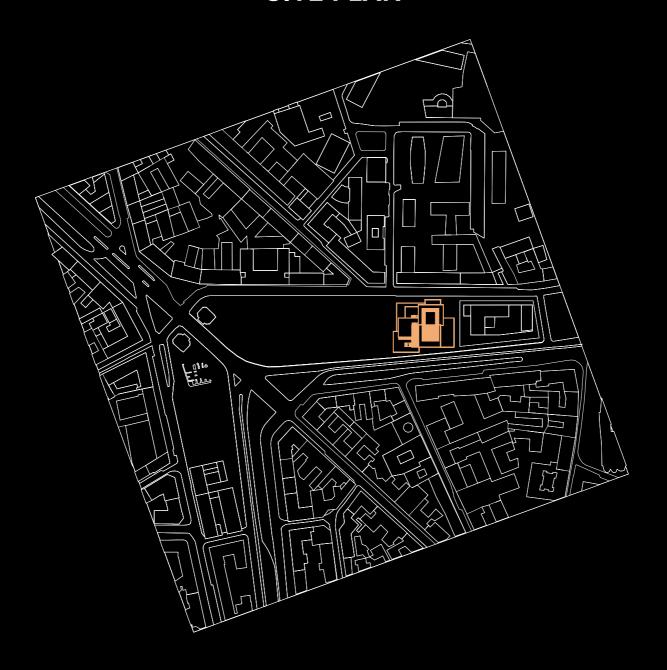
CONCEPT

DESIGN

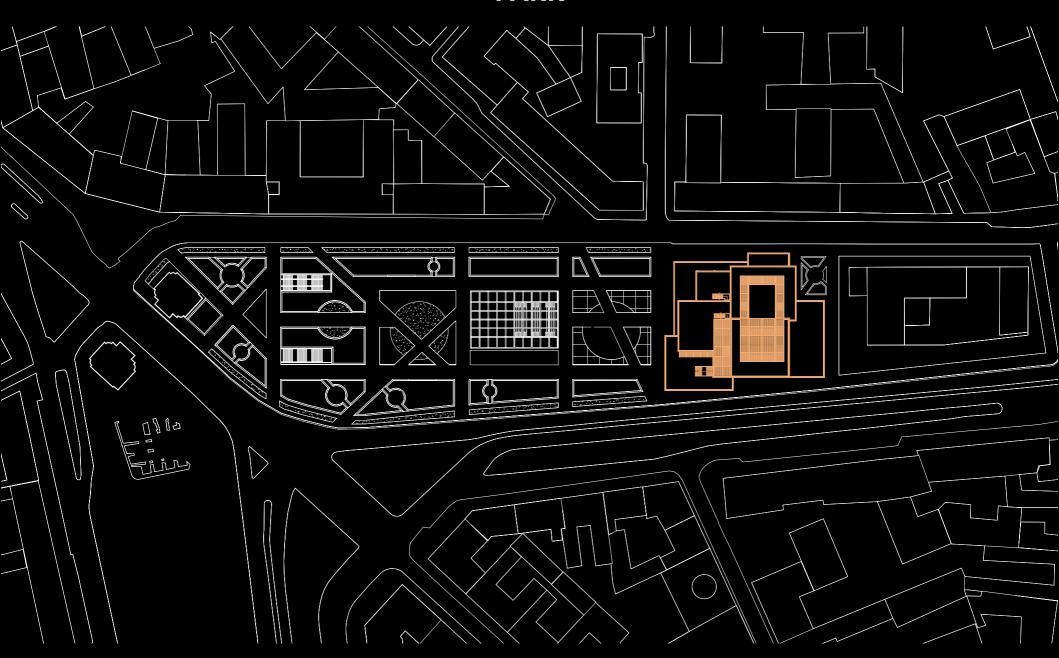
IMPLEMENTATION

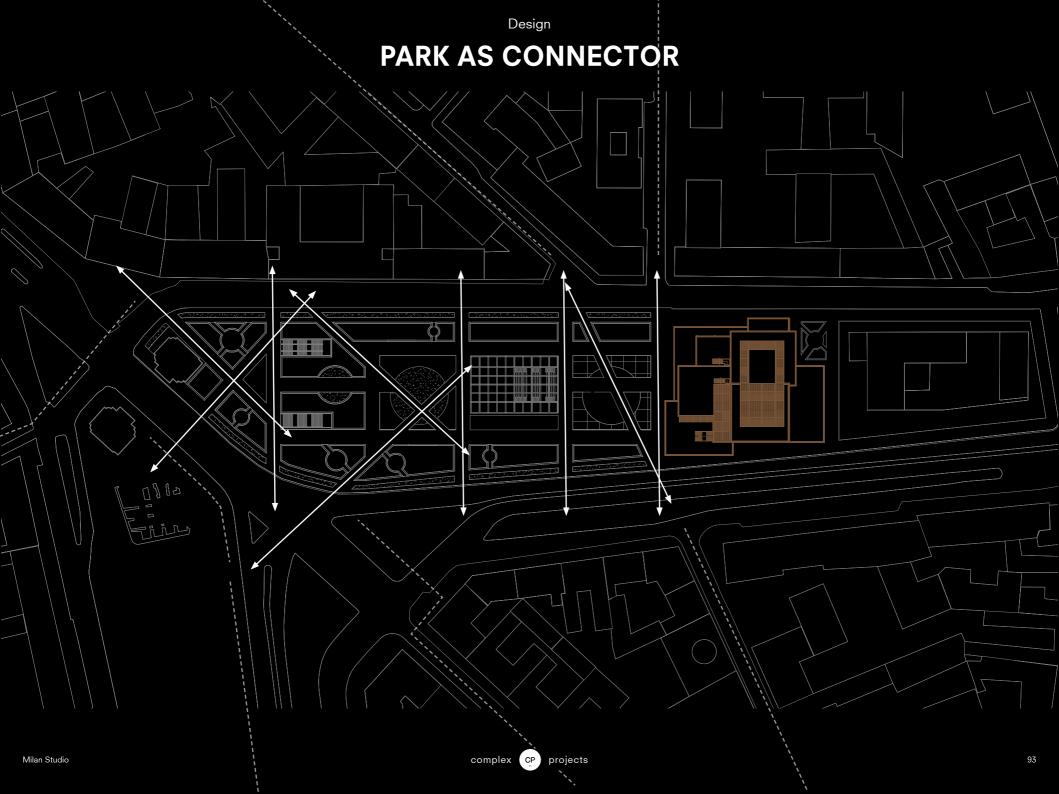
CONCLUSION

SITE PLAN

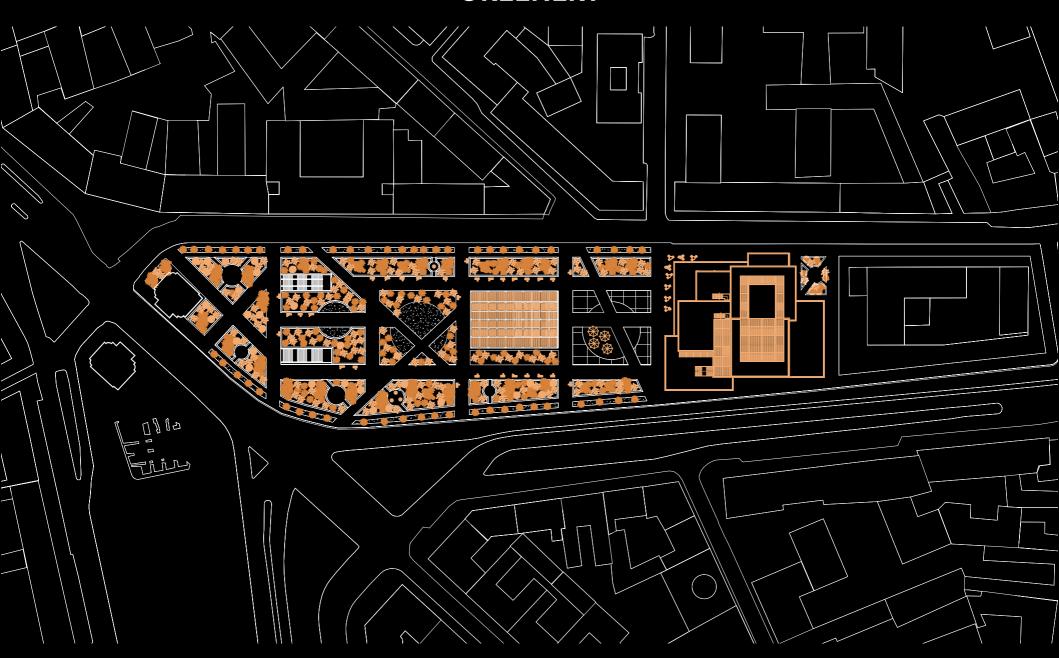


PARK

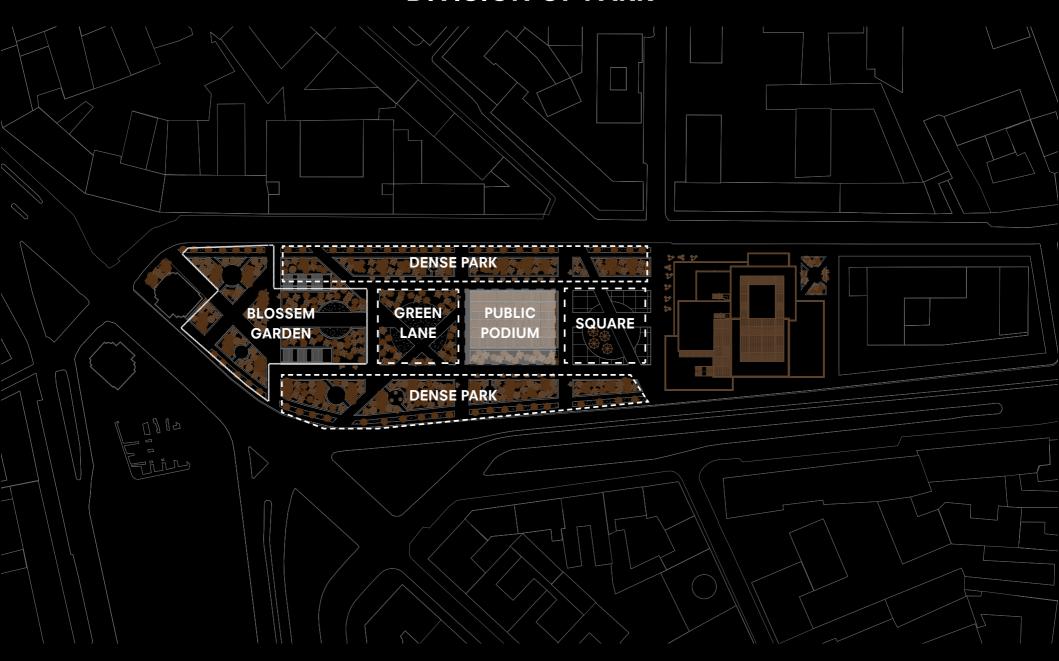




GREENERY

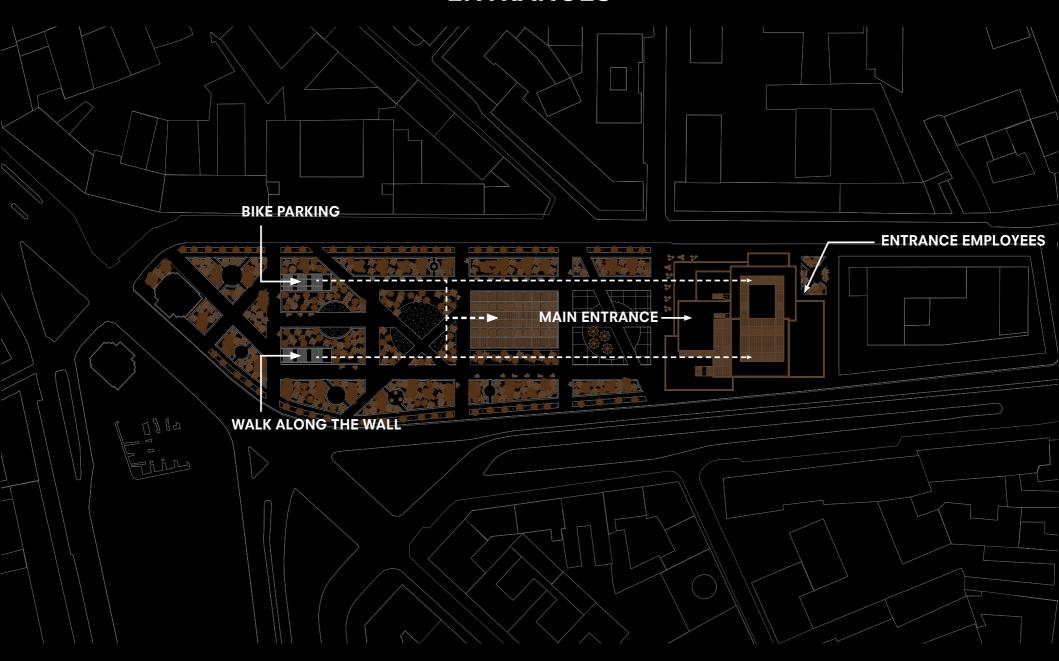


DIVISION OF PARK

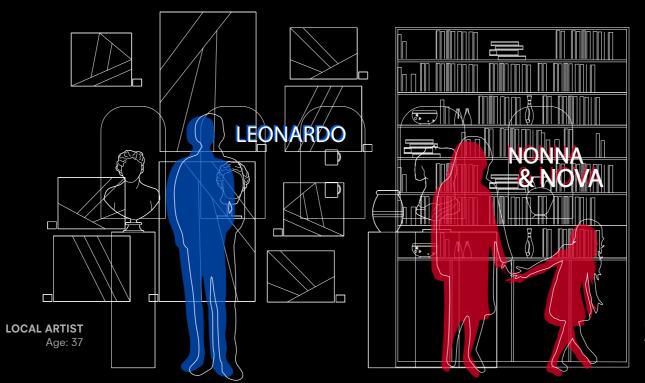




ENTRANCES

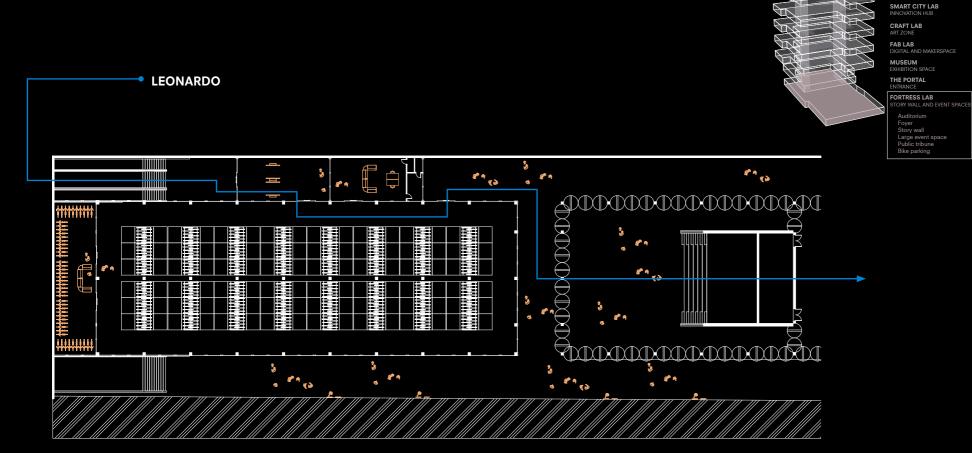


DAY IN THE LIFE OF



REGULAR VISITORS Age: 65 and 8

L -01

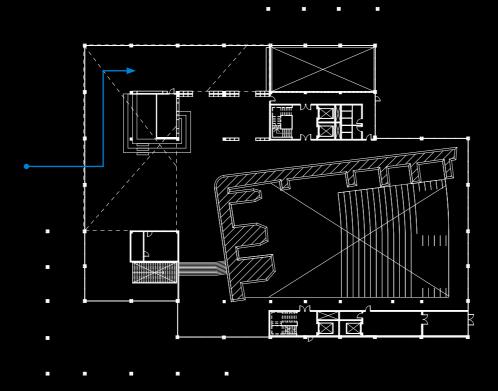


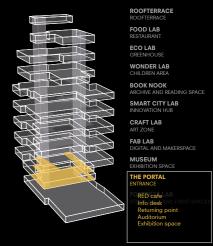
8:00

Parking the bike

ROOFTERRACE
ROOFTERRACE
POOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE

L 00





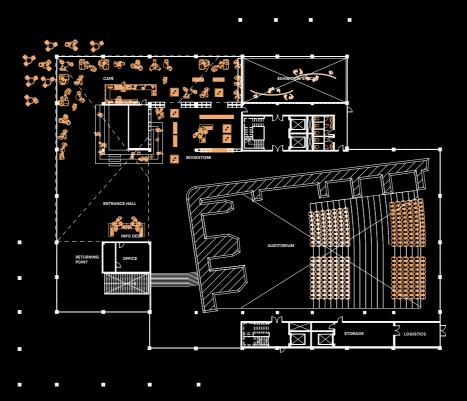
8:00Entering the building



SECTION AA



L 00



ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
RESTAURANT
ECO LAB
GREWHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
INNOVATION HUB
CRAFT LAB
ART ZONE
FAB LAB
DIGITAL AND MAKERSPACE
MUSEUM
EXHIBITION SPACE
THE PORTAL
BUTRANCE
PORED CAREA
WIS EMIT CAREA
RETURNING PORTAL
RETURN SPACE
RET

8:30-9:00

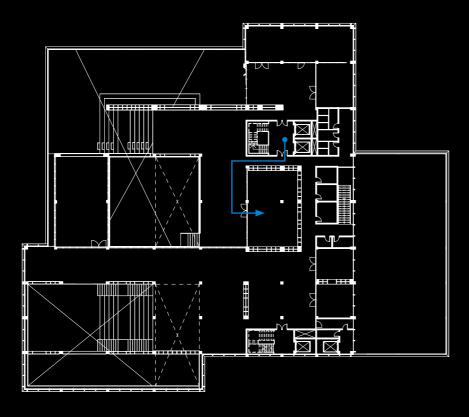
Drinking coffee at the café







L 03



ROOFTERRACE
ROOFTERRACE
FOOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
INNOVATION HUB

CRAFT LAB
ART ZONE
F. Art studios
Dettery studio REPACE
Workshop spaces
Workshop spaces
The share devibilition space
The share devibilition space
The share devibilition space
The share studios
To Shared exhibition space
The shared exhibiti

106

9:00-11:00

Work at personal atelier





ROOFTERRACE

ECO LAB GREENHOUSE

WONDER LAB CHILDREN AREA

воок ноок

SMART CITY LAB INNOVATION HUB

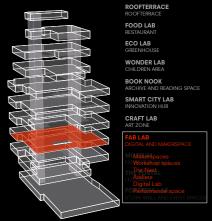
FORTRESS LAB STORY WALL AND EVENT SPACES

9:00-11:00

Work at personal atelier

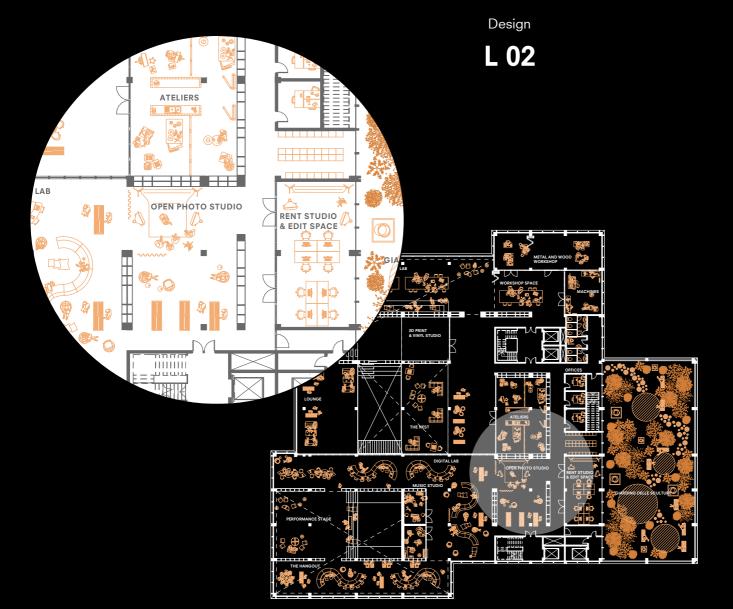
L 02

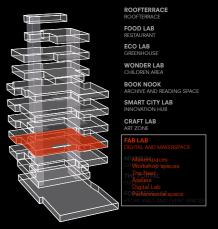




11:00-12:30

Photo studio and editing space





11:00-12:30

Photo studio and editing space



FOOD LAB RESTAURANT

ROOFTERRACE ROOFTERRACE

Flower garden Restaurant Restaurant terrace

BOOK NOOK ARCHIVE AND READING SPACE

SMART CITY LAB INNOVATION HUB

CRAFT LAB ART ZONE

FAB LAB DIGITAL AND MAKERSPACE

MUSEUM EXHIBITION SPACE

THE PORTAL ENTRANCE

FORTRESS LAB STORY WALL AND EVENT SPACES

12:30-13:30

Enjoy the flower garden for lunch





ROOFTERRACE
ROOFTERRACE
FOOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
INNOVATION HUB

CRAFT LAB
ART ZONE
FART LAB
ART ZONE
FART LAB
ART ZONE
FART LAB
ART ZONE
FORTRESS LAB
STORY WALL AND EVENT SPACES
FORTRESS LAB
STORY WALL AND EVENT SPACES

13:30-14:30

Preparing photo exhibition

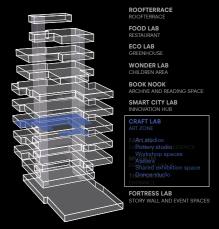


ROOFTERRACE
ROOFTERRACE
POOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
INNOVATION HUB

CRAFT LAB
ART ZONE
PART Studios
Pottery studio INSPACE
Workshop spaces
W Artibure
Fortress LAB
STORY WALL AND EVENT SPACES

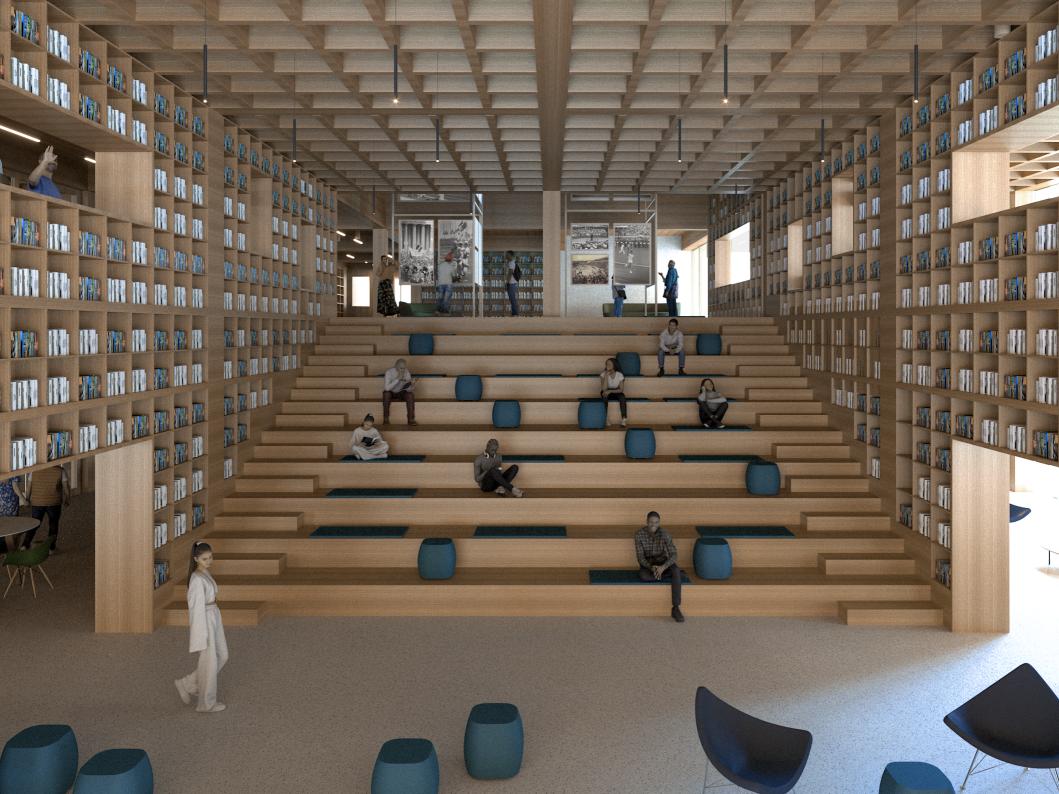
13:30-14:30

Preparing photo exhibition

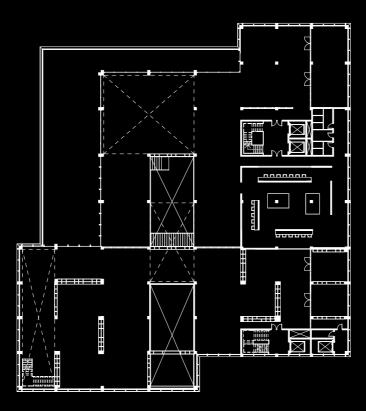


13:30-14:30

Preparing photo exhibition

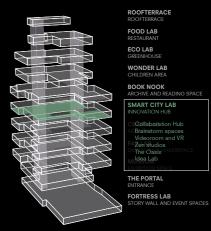




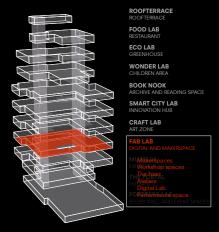


14:30-17:00

Working at the Smart City Lab



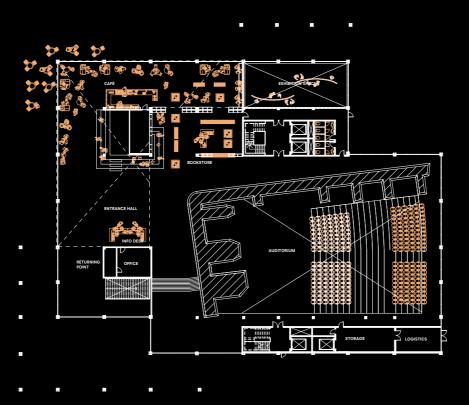




17:30-18:30

Joining a yoga session in the sculpture garden





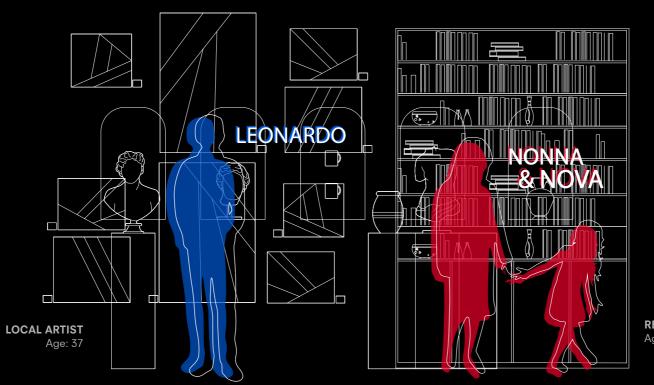
ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
POOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHILDREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
INNOVATION HUB
CRAFT LAB
ART ZONE
FAB LAB
DIGHTAL AND MAKERSPACE
MUSEUM
EHHBITION SPACE
THE PORTAL
ENTRANCE
FORED GREATS
Info desk AND MAKERSPACE
Returning point
Auditorium
Exhibition space

19:30-20:30

Lecture at the auditorium



DAY IN THE LIFE OF



REGULAR VISITORS Age: 65 and 8

L -01



ROOFTERRACE ROOFTERRACE

FOOD LAB RESTAURANT

ECO LAB GREENHOUSE

WONDER LAB CHILDREN AREA

BOOK NOOK ARCHIVE AND READING SPACE

SMART CITY LAB INNOVATION HUB

CRAFT LAB ART ZONE

ARI ZONE

FAB LAB DIGITAL AND MAKERSPACE

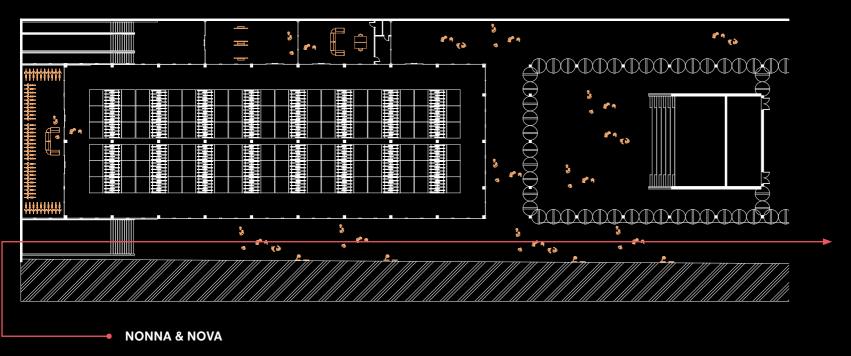
MUSEUM EXHIBITION SPACE

EXHIBITION SPACE

THE PORTAL

FORTRESS LAB

Auditorium Foyer Story wall Large event space Public tribune Bike parking



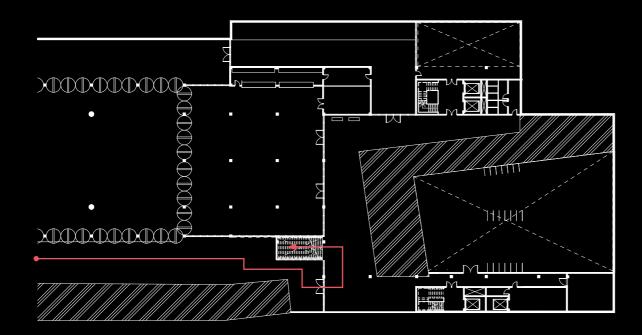
9:30

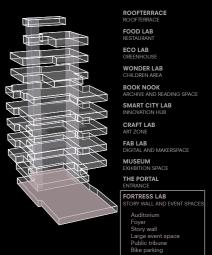
Walk along the story wall

Milan Studio



L -01

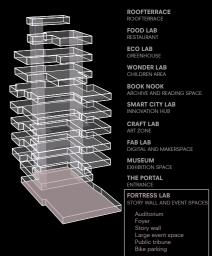




9:30
Walk along the story wall

L -01





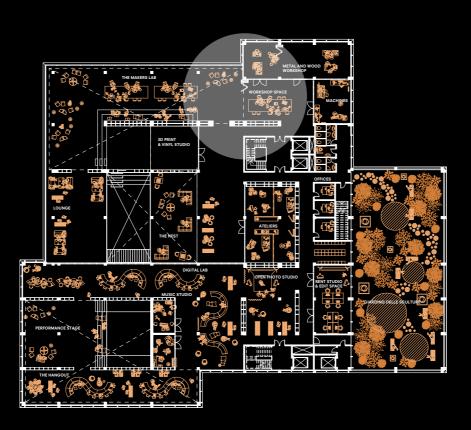
9:30
Walk along the story wall



ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
FOOD LAB
RESTAURANT
ECO LAB
GREENHOUSE
WONDER LAB
CHIL DREN AREA
BOOK NOOK
ARCHIVE AND READING SPACE
SMART CITY LAB
RINOVATION HUB
CRAFT LAB
ART ZOTA
BOITAL AND MAKERSPACE
MUMARAMS pages
UMARAMS pages
Digital Lab
Digital Lab
Polymans
Digital Lab

10:00-12:00

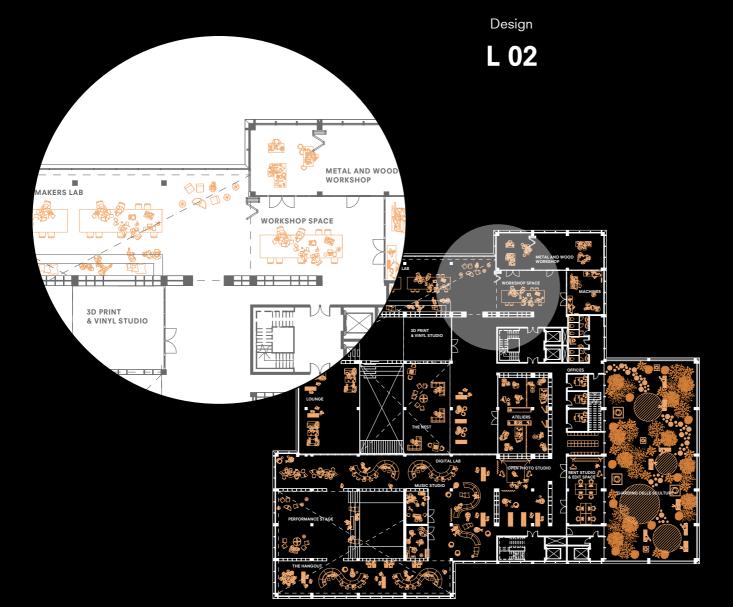
Joining a wood workshop at the makerspace

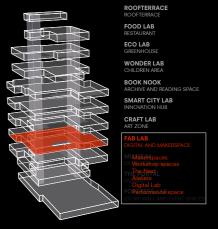


ROOFTERRACE
ROOFTERRACE
ROOFTERRACE
FOOD LAB
RESTAURANT
ECO LAB
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ART ZOTA
BOITAL AND MAKERSPACE
MUMARAMS pages
UMARAMS pages
Digital Lab
Digital Lab
Polymans
Digital Lab

10:00-12:00

Joining a wood workshop at the makerspace



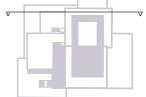


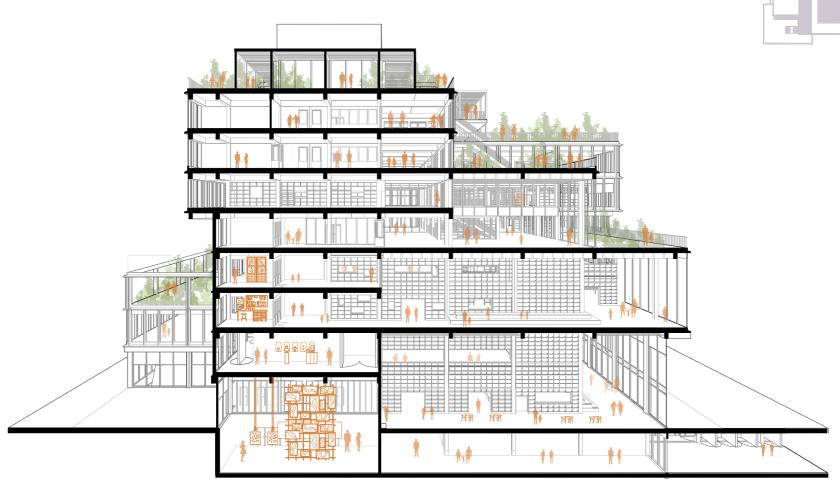
10:00-12:00

Joining a wood workshop at the makerspace



SECTION BB











VIEW DECK ROOFTERRACE

Large roof terrace Viewpoint historical centre

ECO LAB GREENHOUSE

WONDER LAB CHILDREN AREA

BOOK NOOK ARCHIVE AND READING SPACE

SMART CITY LAB

CRAFT LAB ART ZONE

FAB LAB DIGITAL AND MAKERSPACE

MUSEUM

THE PORTAL

FORTRESS LAB STORY WALL AND EVENT SPACES

12:00-13:00

Lunch on the view deck







Enjoying the Wonder Lab



ROOFTERRACE ROOFTERRACE

FOOD LAB RESTAURANT

ECO LAB GREENHOUSE

WONDER LAB CHILDREN AREA

FAB LAB DIGITAL AND MAKERSPACE

MUSEUM EXHIBITION SPACE

THE PORTAL ENTRANCE

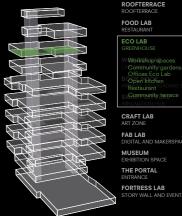
FORTRESS LAB STORY WALL AND EVENT SPACES





13:45-15:30

Working together in the community garden of Nonna



ROOFTERRACE ROOFTERRACE

FAB LAB DIGITAL AND MAKERSPACE

MUSEUM EXHIBITION SPACE

FORTRESS LAB STORY WALL AND EVENT SPACES



13:45-15:30

Working together in the community garden of Nonna



ROOFTERRACE ROOFTERRACE

FOOD LAB RESTAURANT

Workshop spaces
Community gardens
Offices Eco Lab
Open kitchen
Restaurant
Community terrace

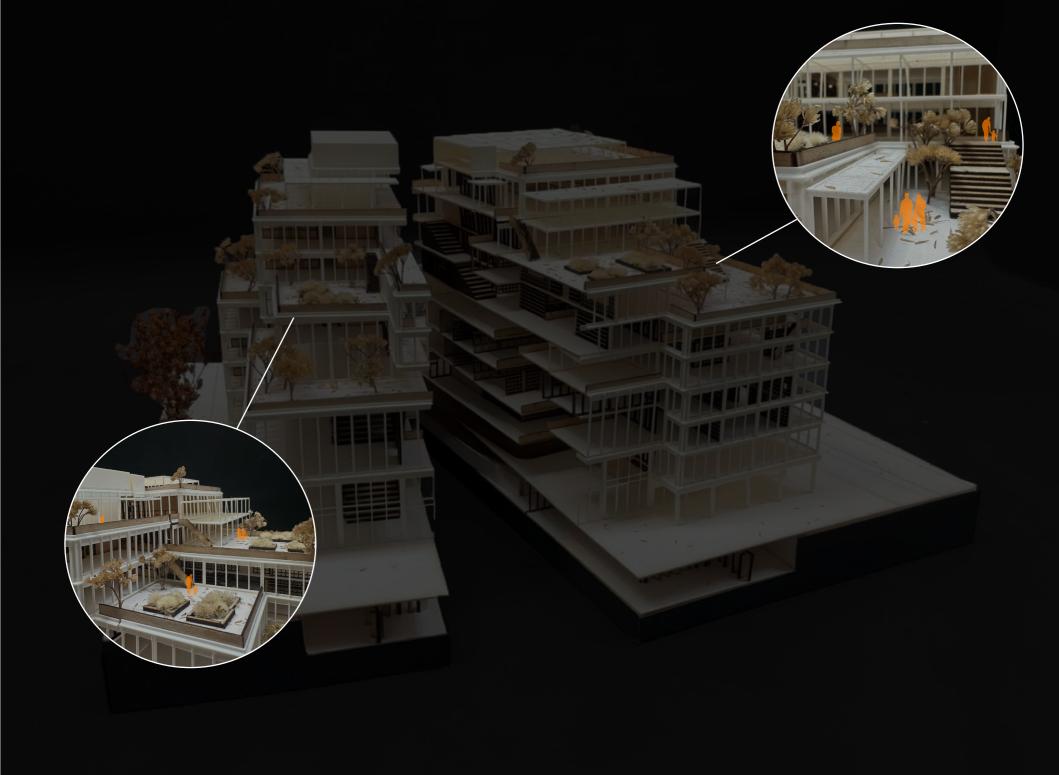
CRAFT LAB ART ZONE

FAB LAB DIGITAL AND MAKERSPACE

MUSEUM EXHIBITION SPACE

THE PORTAL

FORTRESS LAB STORY WALL AND EVENT SPACES



INTRODUCTION

DESIGN BRIEF

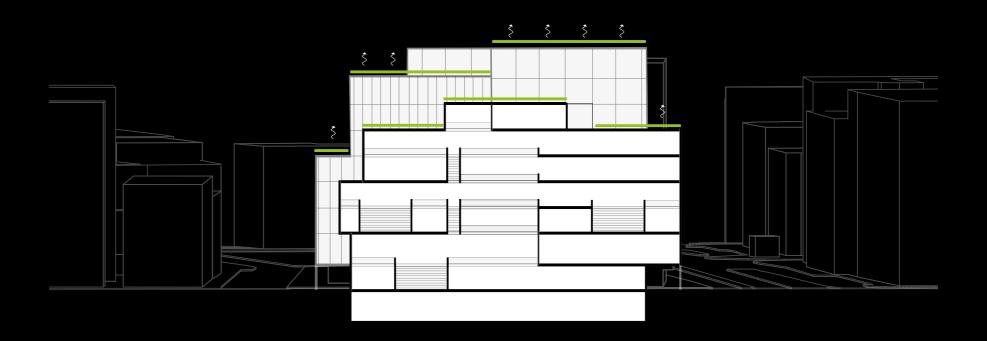
CONCEPT

DESIGN

IMPLEMENTATION

CONCLUSION

SUSTAINABILITY

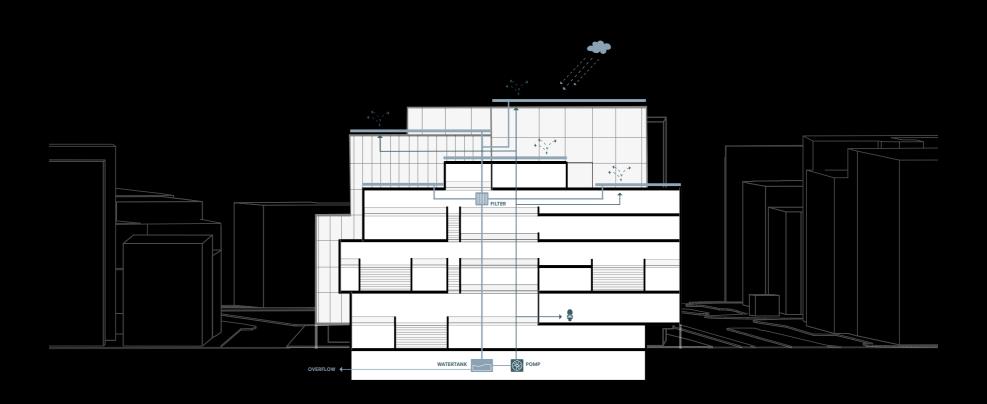


GREEN ROOFS

Vegetated roofs that provide thermal insulation, stormwater management and urban cooling

142

SUSTAINABILITY

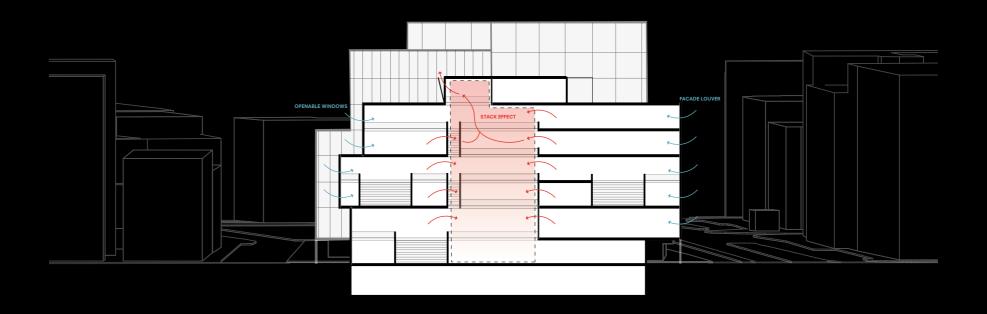


RAINWATER HARVESTING

Collection and storage of rainwater from roofs for reuse in toilets and irrigation

Milan Studio

COMFORT

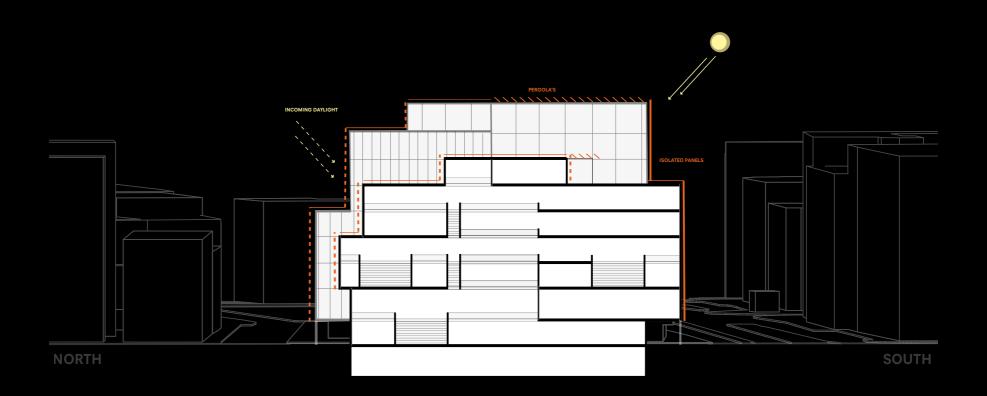


HYBRID VENTILATION

The atrium generates a stack-effect pressure that drives natural ventilation

Milan Studio

COMFORT

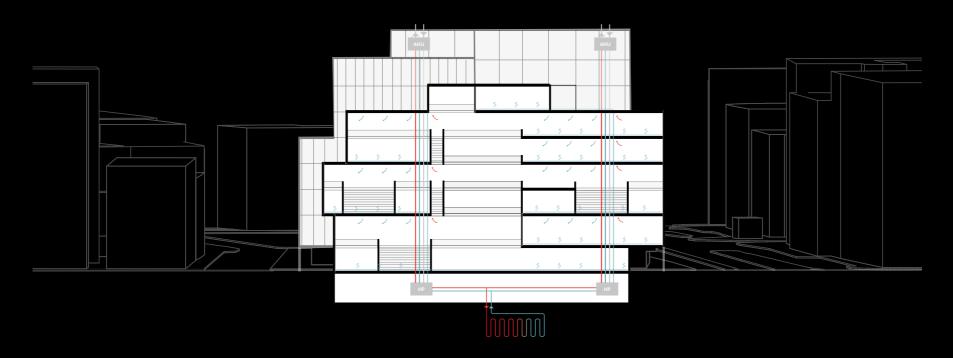


BUILDING ENVELOPE

Highly insulated facades with optimed glazing and shading systems to minimize heating and cooling

Milan Studio

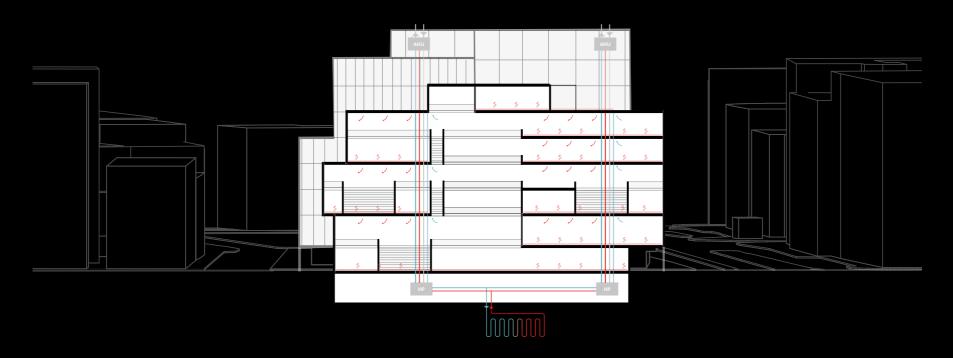
CLIMATE CONTROL



COOLING

Cooling in the summer

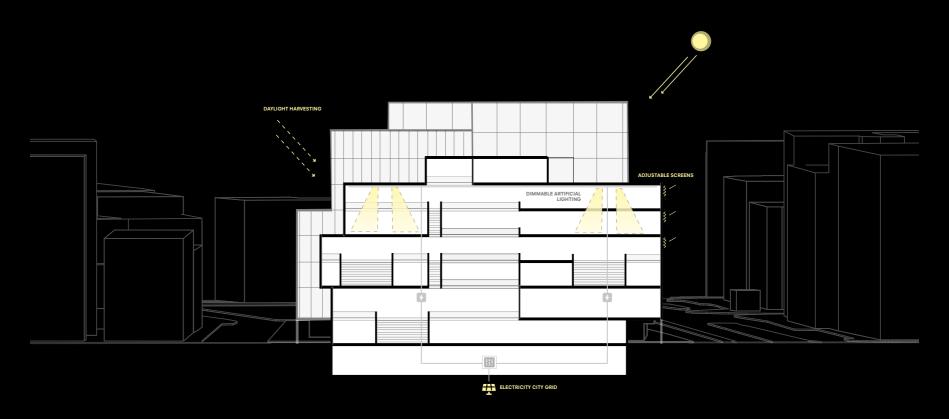
CLIMATE CONTROL



HEATING

Heating in the winter

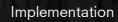
ENERGY



ENERGY GENERATION

An adaptive lighting system reduces energy use; the remaining demand is supplied by green electricity from the city grid and pv panels pergola

Milan Studio 148



MATERIAL LENS

MILAN IS HISTORICALLY GREAT AT HARVESTING LOCAL RAW MATERIALS...



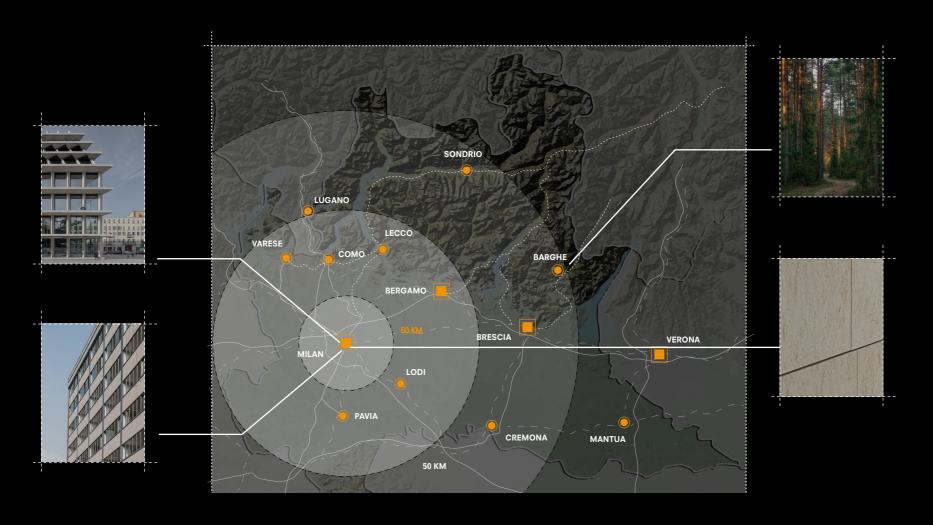


MINIMAL IMPACT ON ENVIRONMENT





LOCAL MATERIALS



All materials are locally harvested or reclaimed and processed to ensure a low-impact

RECLAIMED CONCRETE



Reclaimed concrete from original site



Low-carbon binder



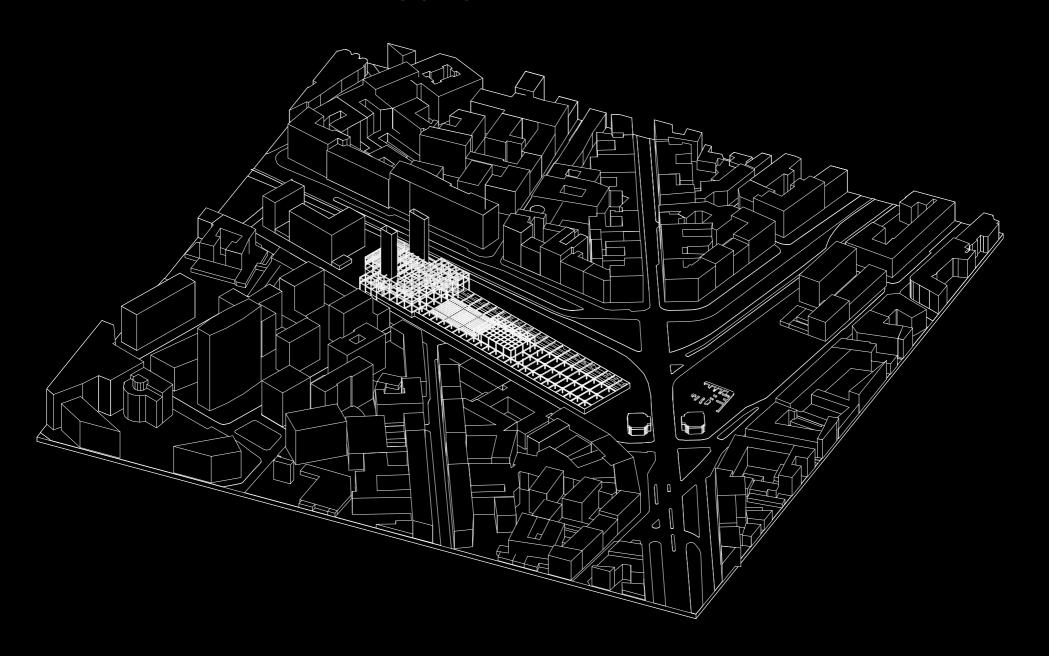
More sustainable concrete structure

LOD

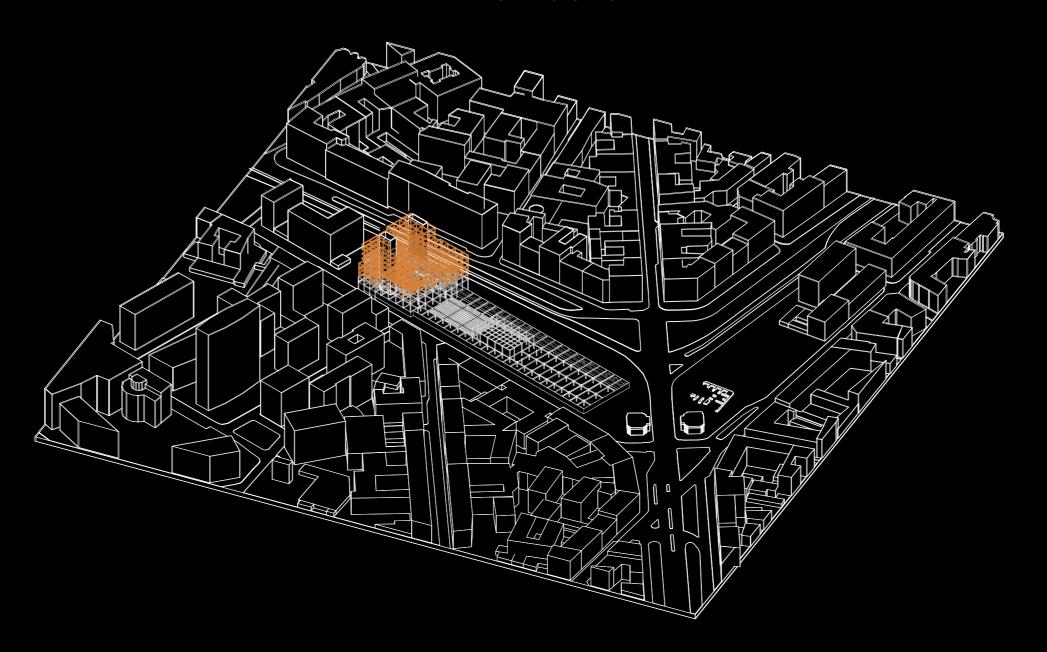
ΑΙνα

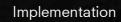
VERONA

CONCRETE 'TABLE'



TIMBER STRUCTURE





MATERIAL LENS



Alpine spruce



Engineered timber



CLT panels,
Glulam columns and beams

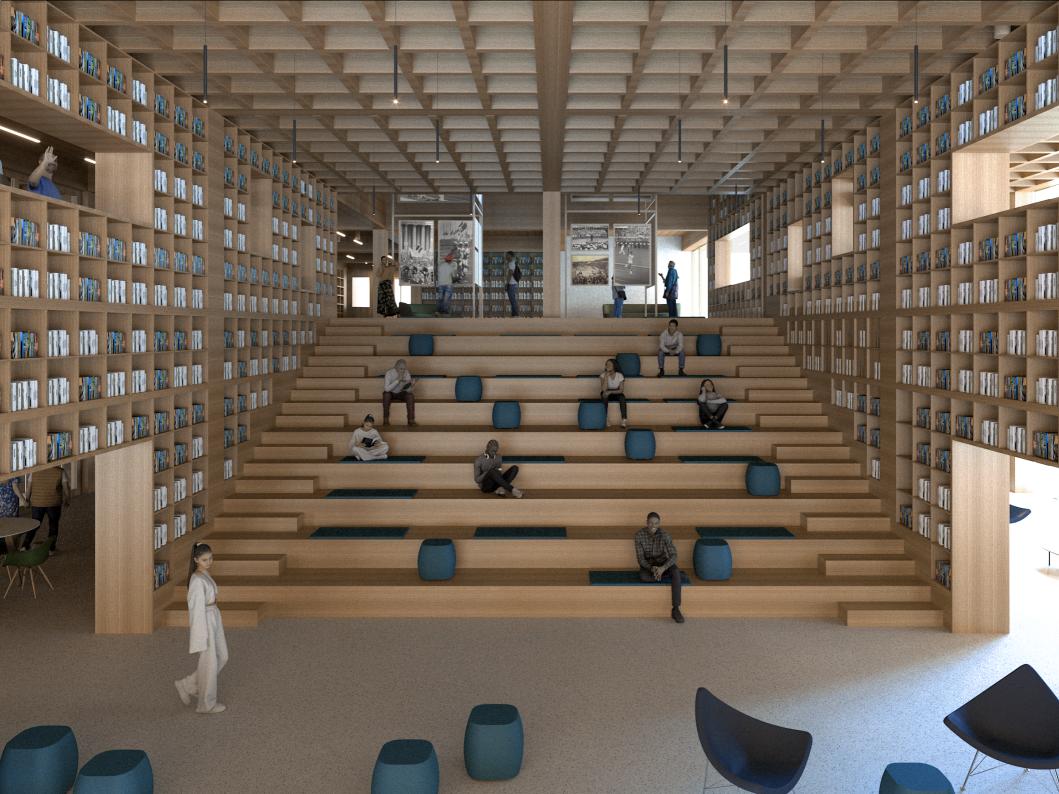
MILAN

LOD

BRESCIA

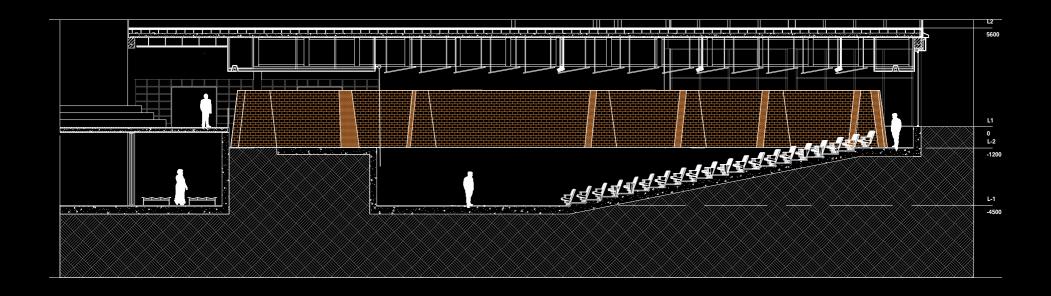
VERONA

PAVIA



Implementation

INTERIOR FRAGMENT





FACADE



Aluminium from renovation and demolition streams



Alloy selection and anodizing

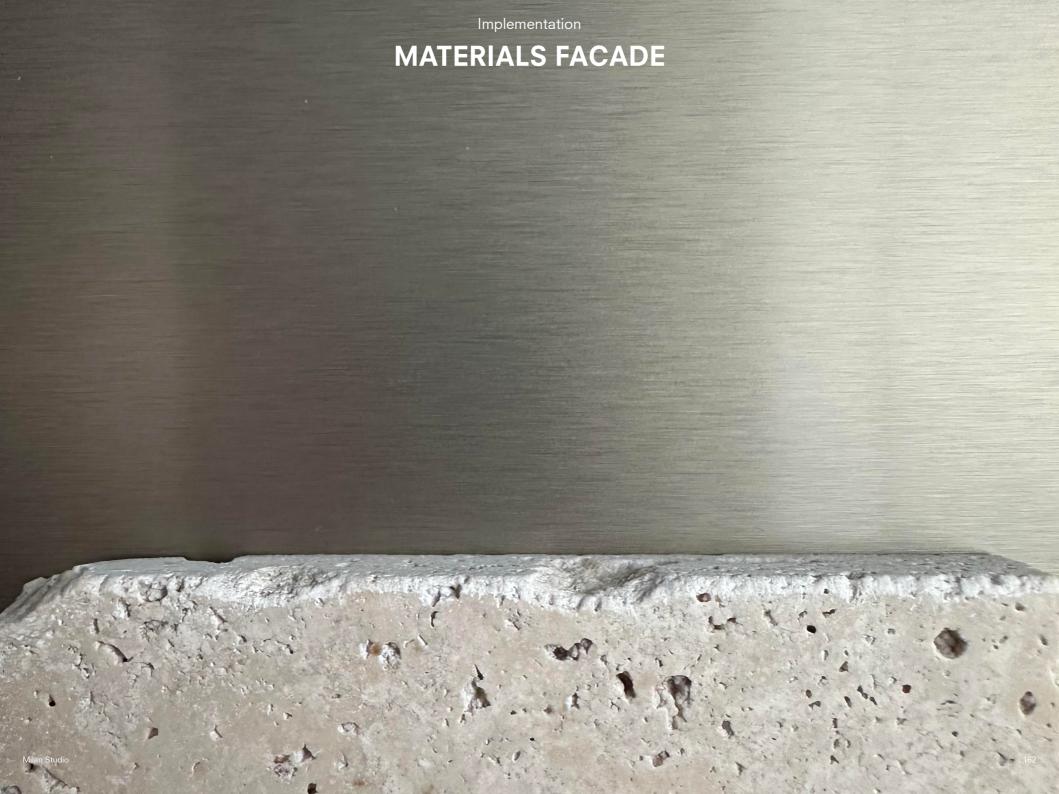


Modular curtain wall system

PAVIA

NORTH WEST ELEVATION ~~ ~





NORTH SOUTH ELEVATION

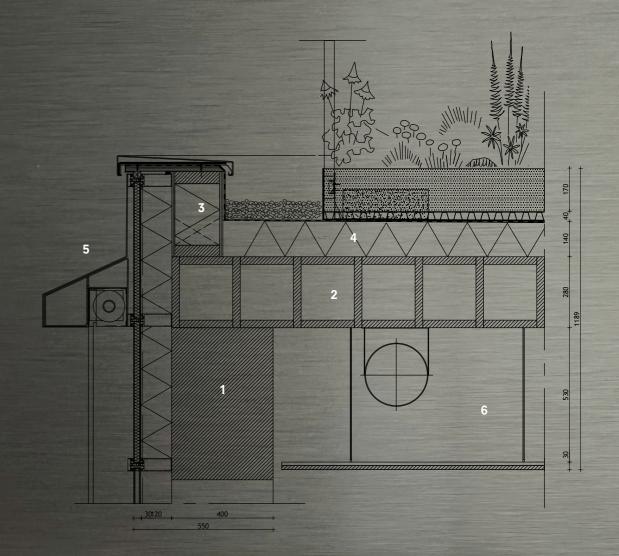




FACADE FRAGMENT

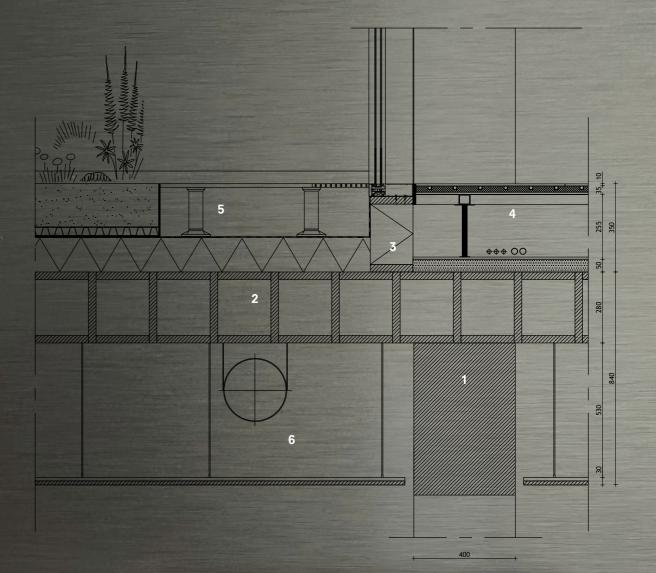


Implementation



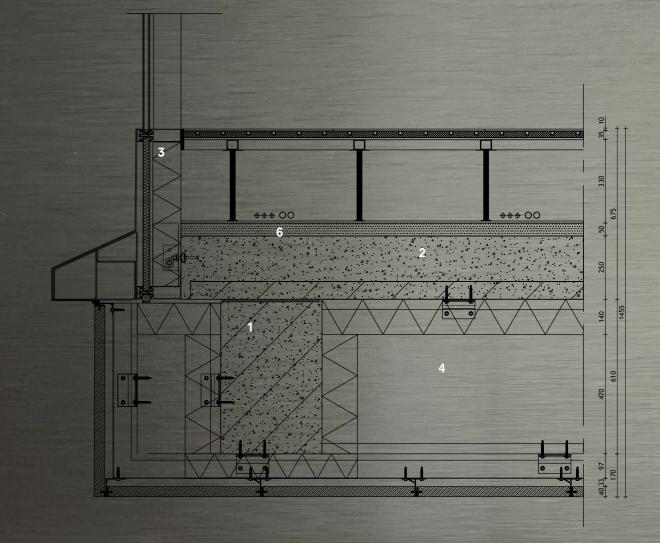
- 1. Timber construction beam 400x600 mm
- 2. Lignatur surface floor 280 mm
- 3. HSB-element for roof upstand,
- aluminium wall covering

 4. Ballast layer, vegetation, railing, substrate 170 mm, filter layer, drainage layer, waterproof mechanical protection layer 3 mm, mineral wool insulation 240 mm, vapour barrier layer 3 mm
- **5.** Aluminium curtain wall, with outside shading screens
- with outside shading screens
 Suspended ceiling, wooden slats, and space for installations



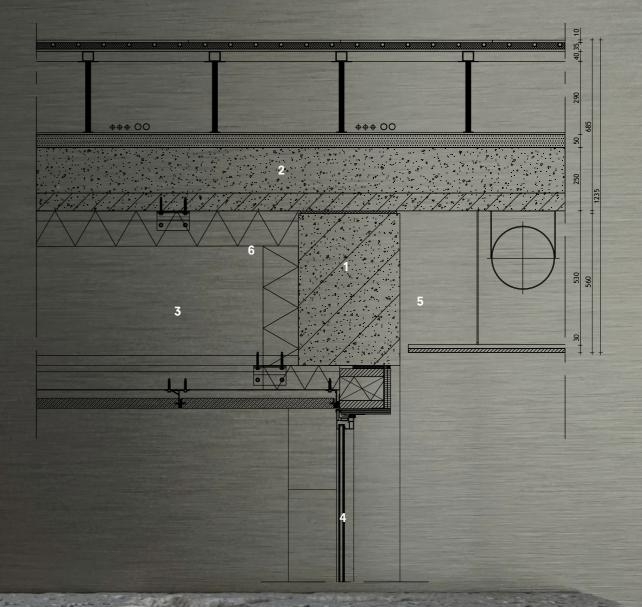
- 1. Timber construction beam 400x600 mm
- **2.** Lignatur surface floor 280 mm
- **3.** HSB-element, aluminium curtain wall
- 4. Raised acces floor; marmoleum floor panels 600x600 mm (concrete look), underfloor heating screed 60 mm, stringers (steel profiles), adjustable pedestals (steel columns), rubber acoustic pad, load-bearing leveling layer 50 mm
- 5. Concrete tiles, tile supporters, threshold drain, waterproof mechanical protection layer 3 mm, mineral wool insulation 240 mm, vapour barrier layer 3 mm
- 6. Suspended ceiling, wooden slats, and space for installations

Implementation

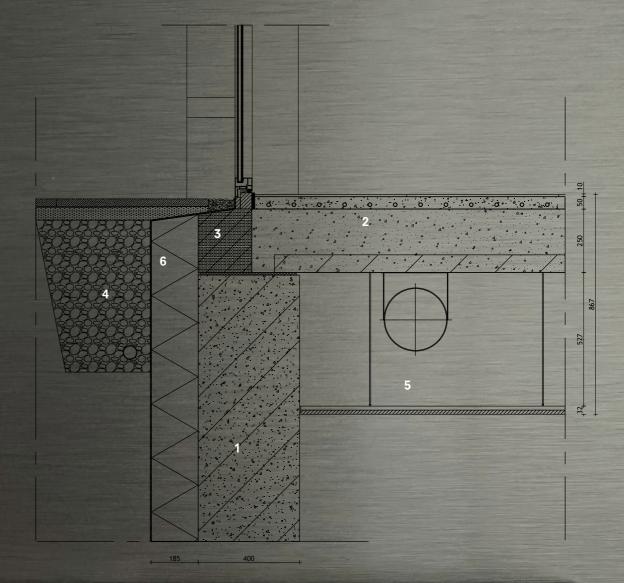


- 1. Concrete construction beam 400x600 mm
- 2. Raised acces floor; marmoleum floor panels 600x600 mm (concrete look), underfloor heating screed 60 mm, stringers (steel profiles), adjustable pedestals (steel columns), rubber acoustic pad, load-bearing leveling layer 50 mm, wide slab floor 250 mm
- **3.** Aluminium curtain wall with anodised aluminium sandwich panels and cover
- 4. Travertine panel 40 mm, agraffe anchors, T aluminium rails, adjustable brackets, ventilated cavity with thermal insulation 130 mm, weather-resistive barrier, secondary steel frame (cold-formed C-studs), mineral wool insulation 140 mm

Implementation



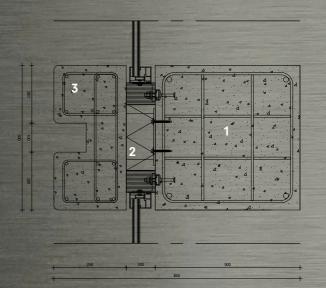
- 1. Concrete construction beam 400x600 mm
- 2. Raised acces floor; marmoleum floor panels 600x600 mm (concrete look), underfloor heating screed 60 mm, stringers (steel profiles), adjustable pedestals (steel columns), rubber acoustic pad, load-bearing leveling layer 50 mm, wide slab floor 250 mm
- 3. A prefabricated reinforced concrete tile with tavertine aggregate surface finish 4 mm, agraffe anchors, T aluminium rails, adjustable brackets, ventilated cavity, weather-resistive barrier, secondary steel frame (cold-formed C-studs), mineral wool insulation 140 mm
- 4. HSB element with aluminium window wall system installed between structural concrete columns finished with travertine panels
- 5. Suspended ceiling, wooden slats,



- 1. Concrete structure 400 mm
- 2. Marmoleum floor panels 600x600 mm (concrete look), floor screed with heating 50 mm, wide slab floor 250 mm
- 3. Aluminium window wall system installed between structural concrete columns finished with travertine panels, water-resistance layer, thermal insulationg blocks at wall base, thermal insulation 185 mm (mineral wool)
- 4. Stone tiles 40 mm, compacted sand bed, dranaige layer, water-permeable gravel, backfill soil
- **5.** Suspended ceiling, wooden slats, and space for installations

- **1.** Load-bearing structure, reinforced concrete structure 400 mm
- 2. Aluminium window frames, mineral wool (80kg/m3) 100 mm, Vacuum Insulation Panels (VIP) 100 mm, water-resistance layer
- mm, water-resistance layer

 A prefabricated reinforced concrete element
 250 mm with a travertine aggregate surface
 finish 4 mm, treated with a hydrophobic
 coating to provide water repellency and
 protection against soiling and discoloration



INTRODUCTION

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