COMPLEX PROJECTS

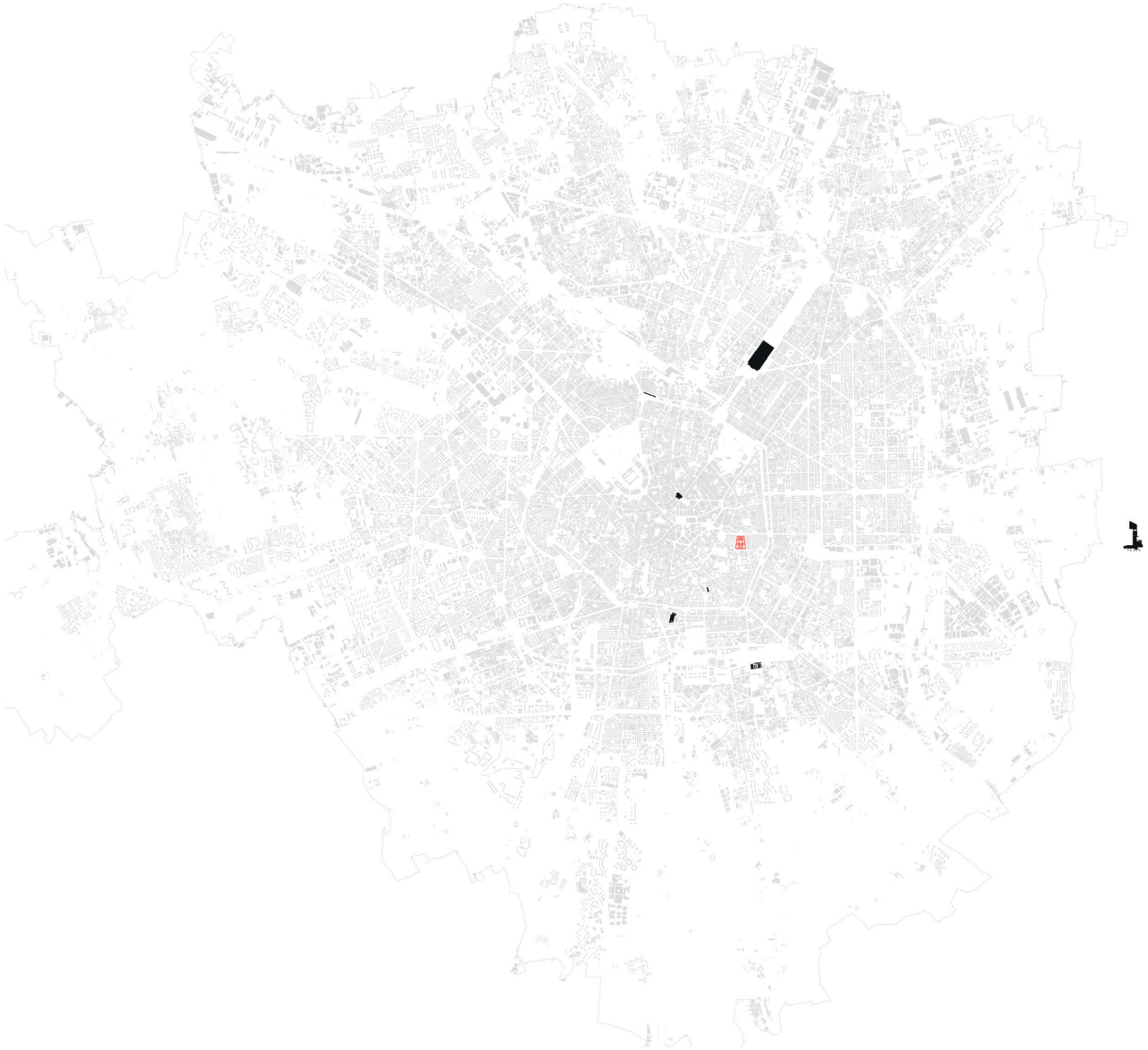
BALANCING TRUST

Courthouse Project in Milan



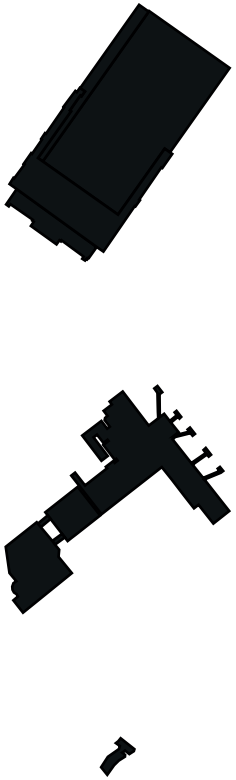
04.07.2025
Maksymilian Janus
Complex Projects 2024/2025

KICK OFF
BALANCING TRUST



MILAN, ITALY

KICK OFF
BALANCING TRUST



FLOWS

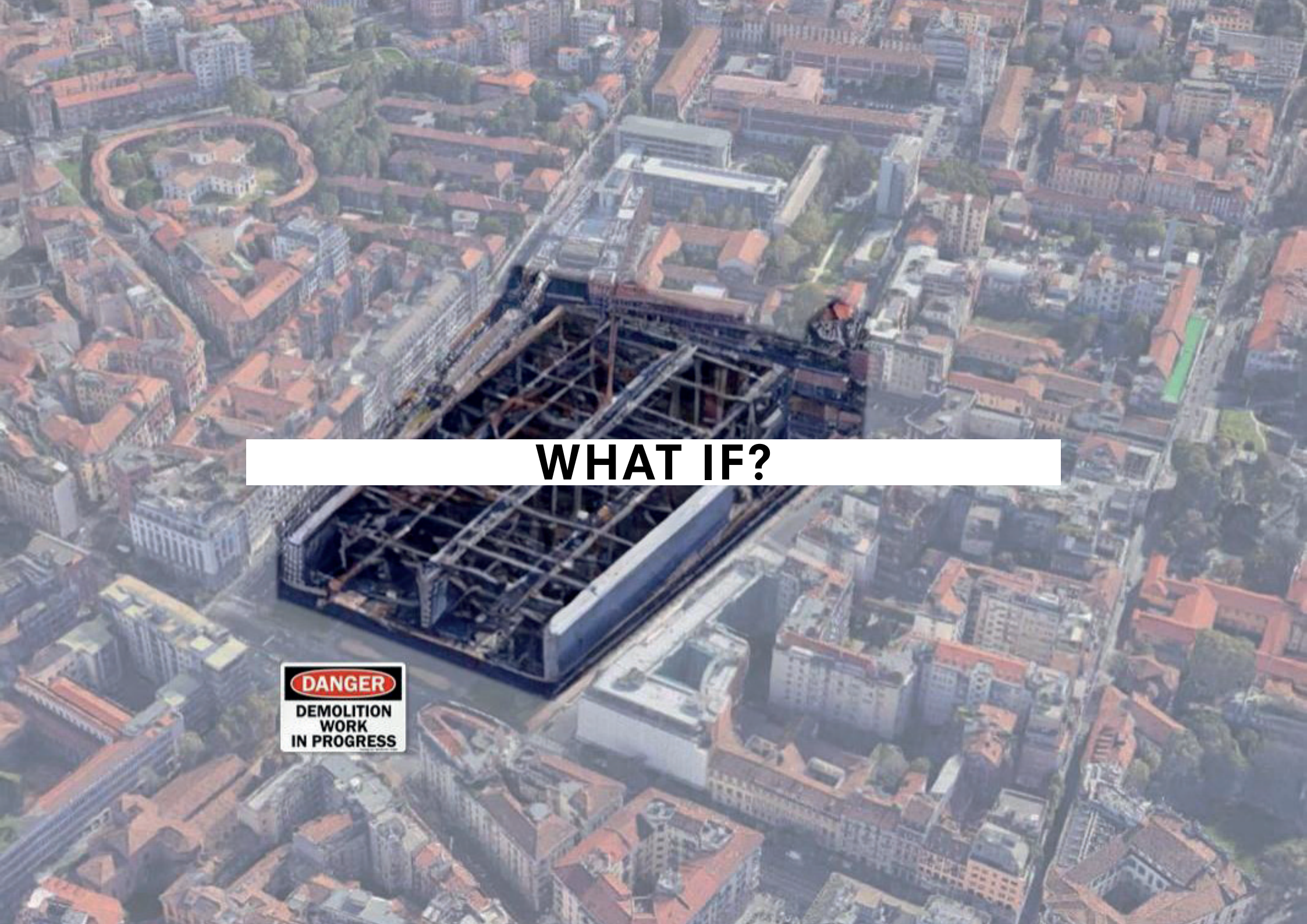


AREA



SPACE

8 EXISTING BUILDINGS

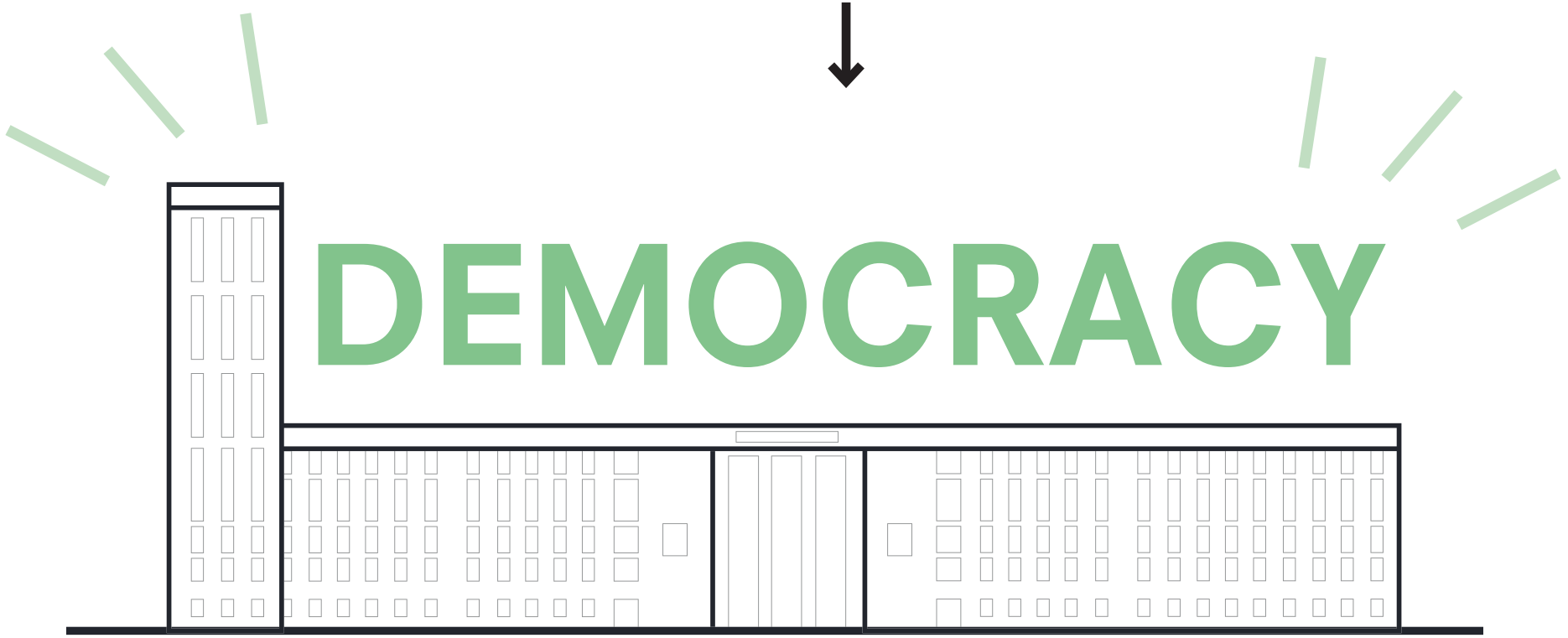

WHAT IF?
DANGER
DEMOLITION
WORK
IN PROGRESS

CIVIC BUILDINGS

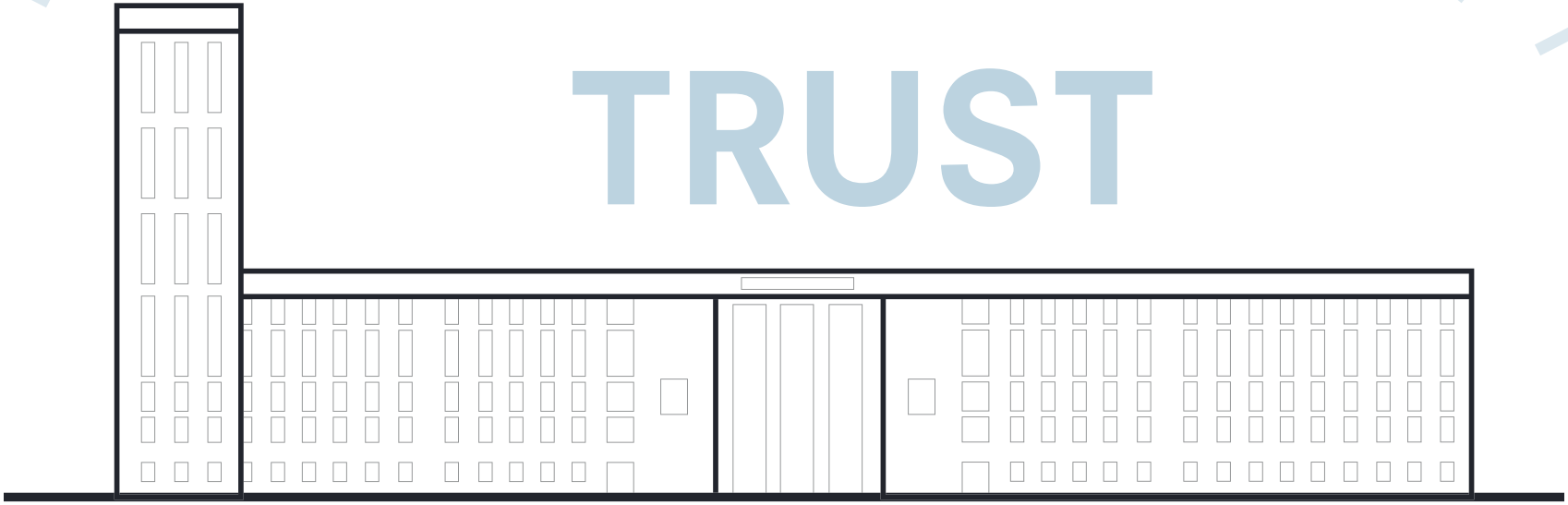


CIVIC BUILDINGS

↓

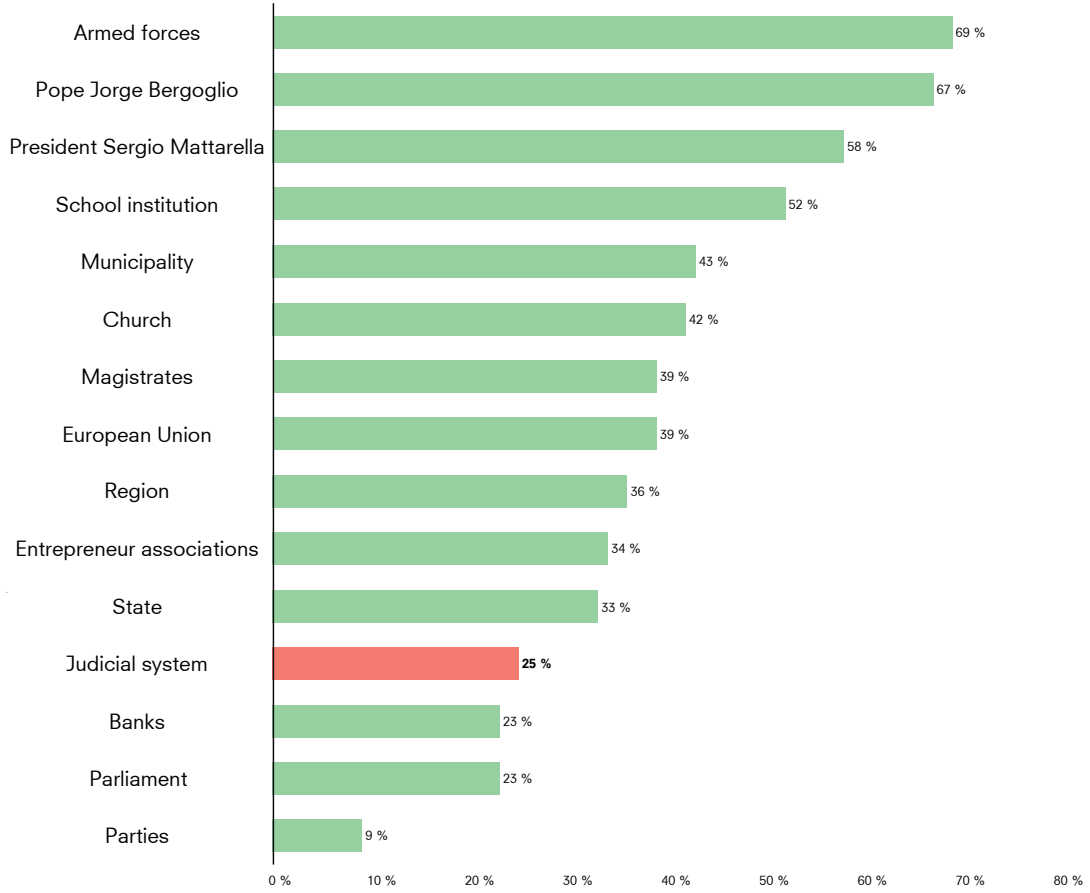


DEMOCRACY



TRUST

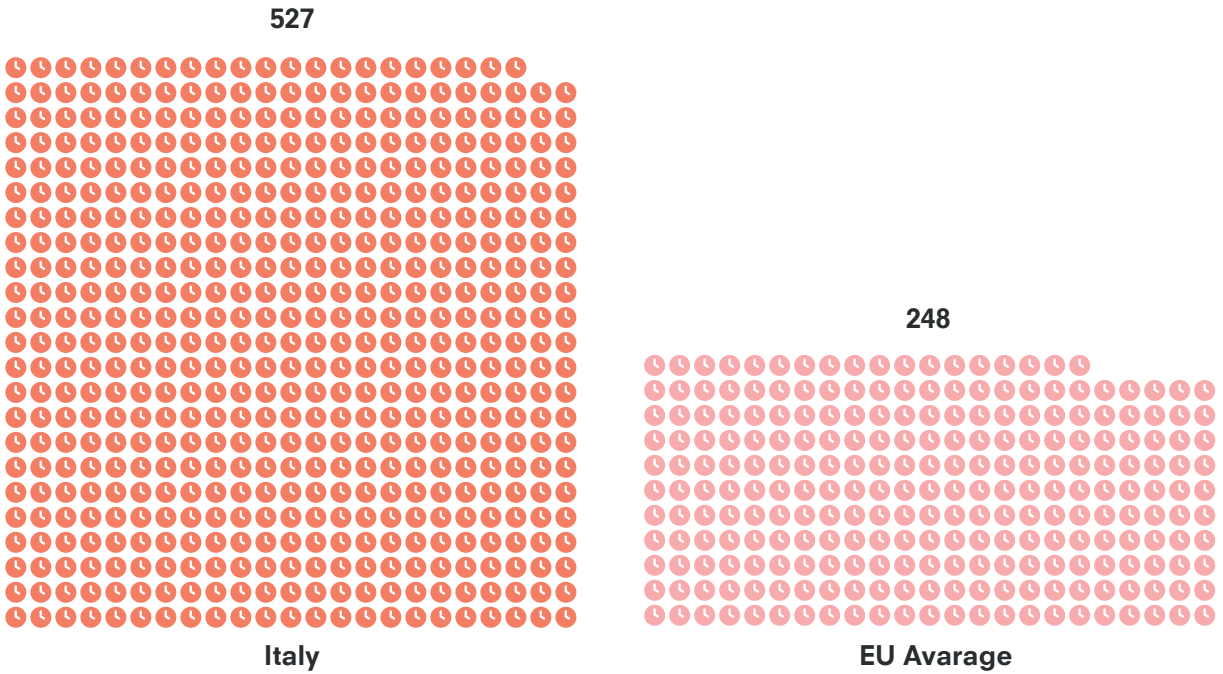
PROBLEM STATMENT
BALANCING TRUST



HOW MUCH DO YOU TRUST THE FOLLOWING ORGANIZATIONS?

OECD Country Surveys

PROBLEM STATMENT
BALANCING TRUST



DISPOSITION TIME IN DAYS

OECD Country Surveys



Fascist Era (1922–1943) - state control over justice

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Mani Pulite (1990s) - the corruption crackdown

https://images.ildubbio.news/view/acePublic/alias/contentid/OGYzMDllY2ltNjk0MC00/0/pool-mani-pulite-900x600.webp



Silvio Berlusconi Scandals 2010 - tension between political power and legal accountability

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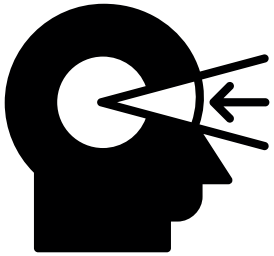
TRUST


TRUST

FIRST STEP





COURT PROCESSES

PRECEIVED TRUSTWORTHINESS ARCHITECTURE

PUBLIC TRUST

National Center for State Courts, 2025



ACCESSIBILITY



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MILANOTODAY



Matthew

June 03, 2020 09:00

We are talking about

Milan

POLITICS

Justice, flash mob Lega Giovani in front of the Milan courthouse




UNIA MILANO
GLI INQUILINI
NON SONO
IL BANCOMAT
DEL PAT



https://www.agenzianova.com/news/wp-content/uploads/2024/04/Manifestazione.png



SECURITY

Milan court shooting: suspect arrested after killing 'up to three' including judge - latest

Shooter arrested in nearby city of Vimercate, according to Italy's interior minister, and is now being held in police station after incident in Milan appeals court

By Andrew Marszal
09 April 2015 • 1:55pm



- Up to three people including judge killed in Milan court shooting
- Witness and attorney also reportedly among victims
- Gunman arrested in nearby city of Vimercate: minister
- Alleged shooter was defendent in bankruptcy case

NEWS > CYBERSECURITY AND DATA PROTECTION

Hacked info from Italy security databases sold to rich clients, prosecutors say

Italian probe reveals "gigantic and alarming market of confidential data," prosecutors say.

SHARE

POLITICOPRO Free article usually reserved for subscribers



The Milan prosecutors allege the business intelligence agency tapped into three key databases. | Olivier Morin/AFP via Getty Images

OCTOBER 27, 2024 4:26 PM CET
BY ANTOANETA ROUSSI

Milanese police placed four people under house arrest and are investigating dozens of others in a probe into the alleged illegal access of state security databases by a private investigative firm, Italian prosecutors said.

NOVA.news
Quotidiano online di Agenzia Nova

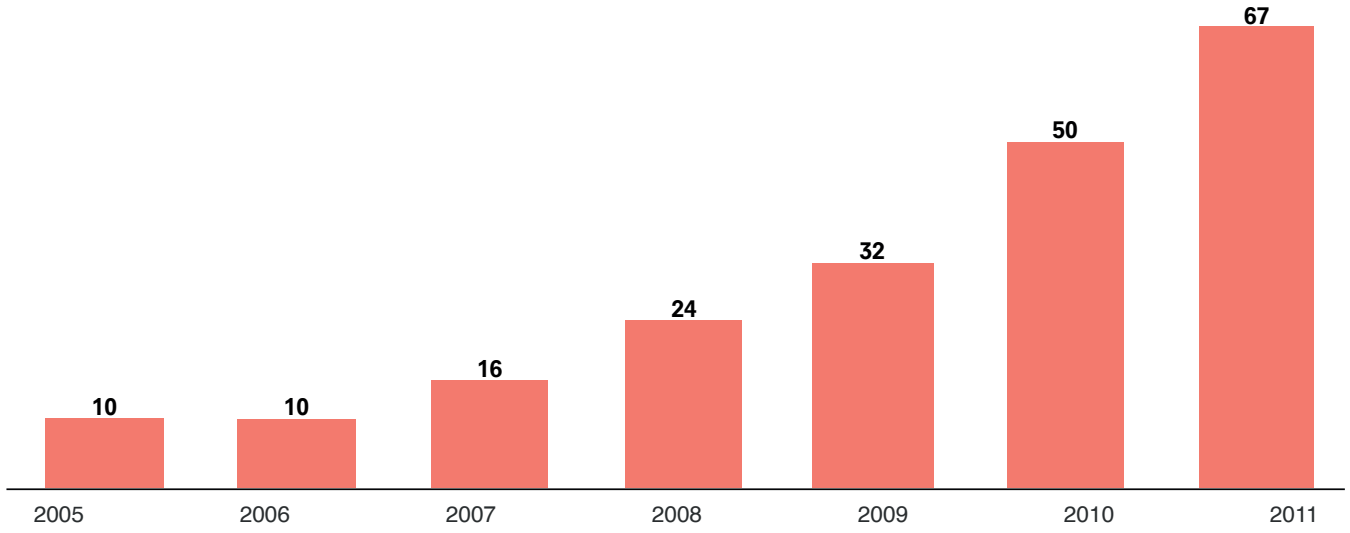
Fire at Milan Courthouse, 500 People Evacuated

No injuries or poisoning were reported

Milan, October 16, 2024 *© Agenzia Nova - Reproduction reserved*



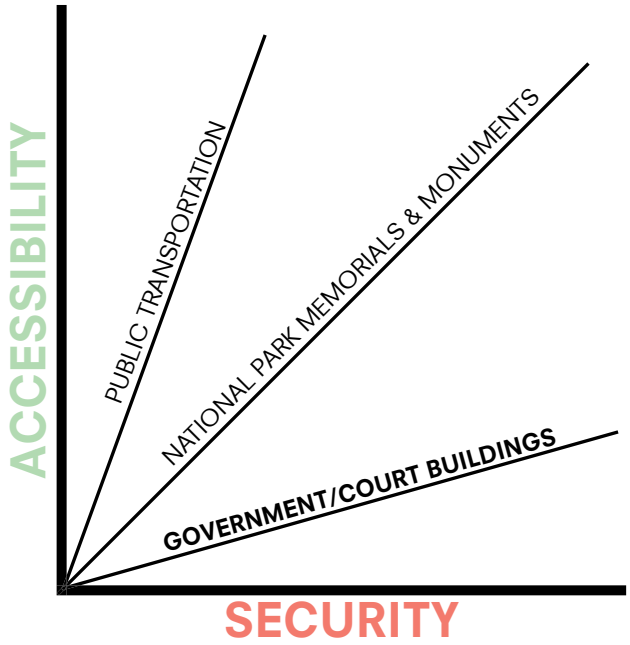
A fire started in the premises of the old boilers being decommissioned at the Court of Milan. Three teams from the Fire Department Command of via Messina and the recovery vehicle arrived in via Freguglia in a few minutes.



VIOLENT INCIDENTS

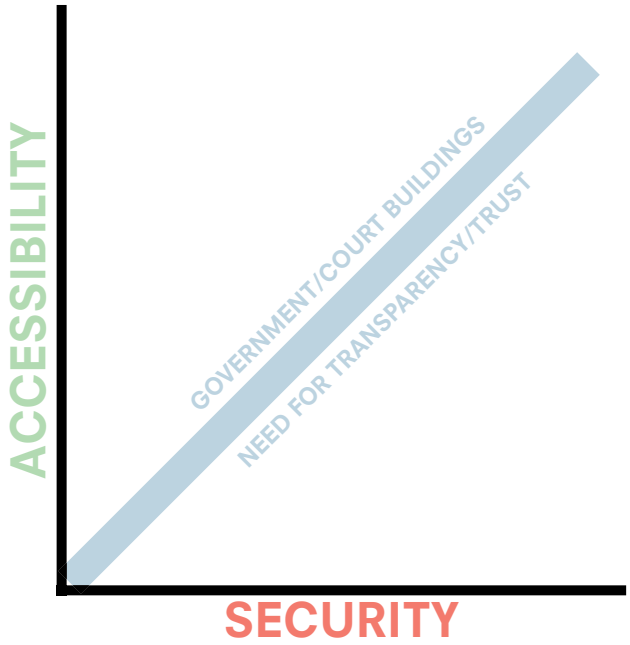
Courthouse Security Incidents Trending Upward: The Challenges Facing State Courts Today

PROJECT AMBITIONS
BALANCING TRUST



https://www.beyerblinderbelle.com/stories/226_openness_in_security

PROJECT AMBITIONS
BALANCING TRUST



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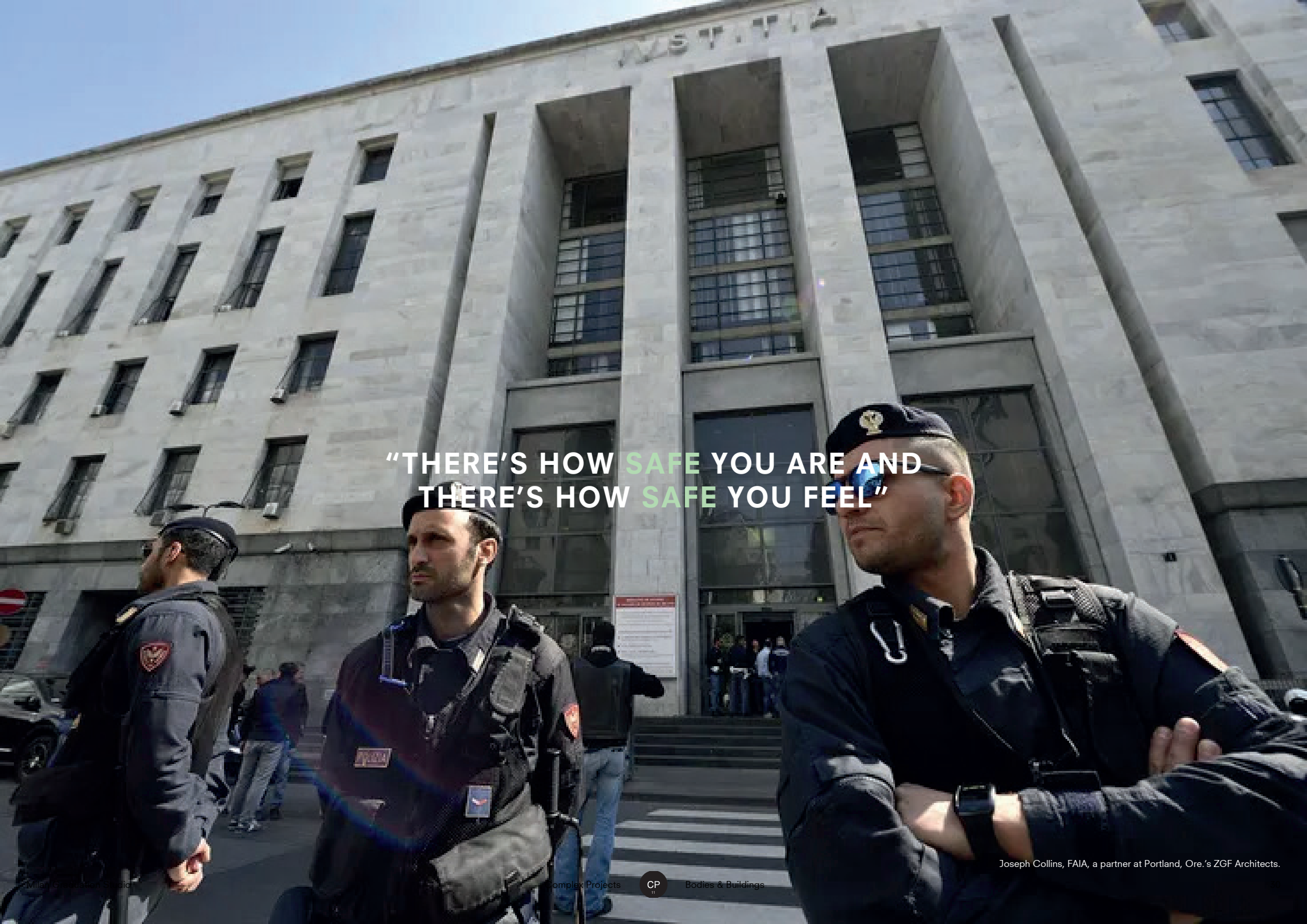
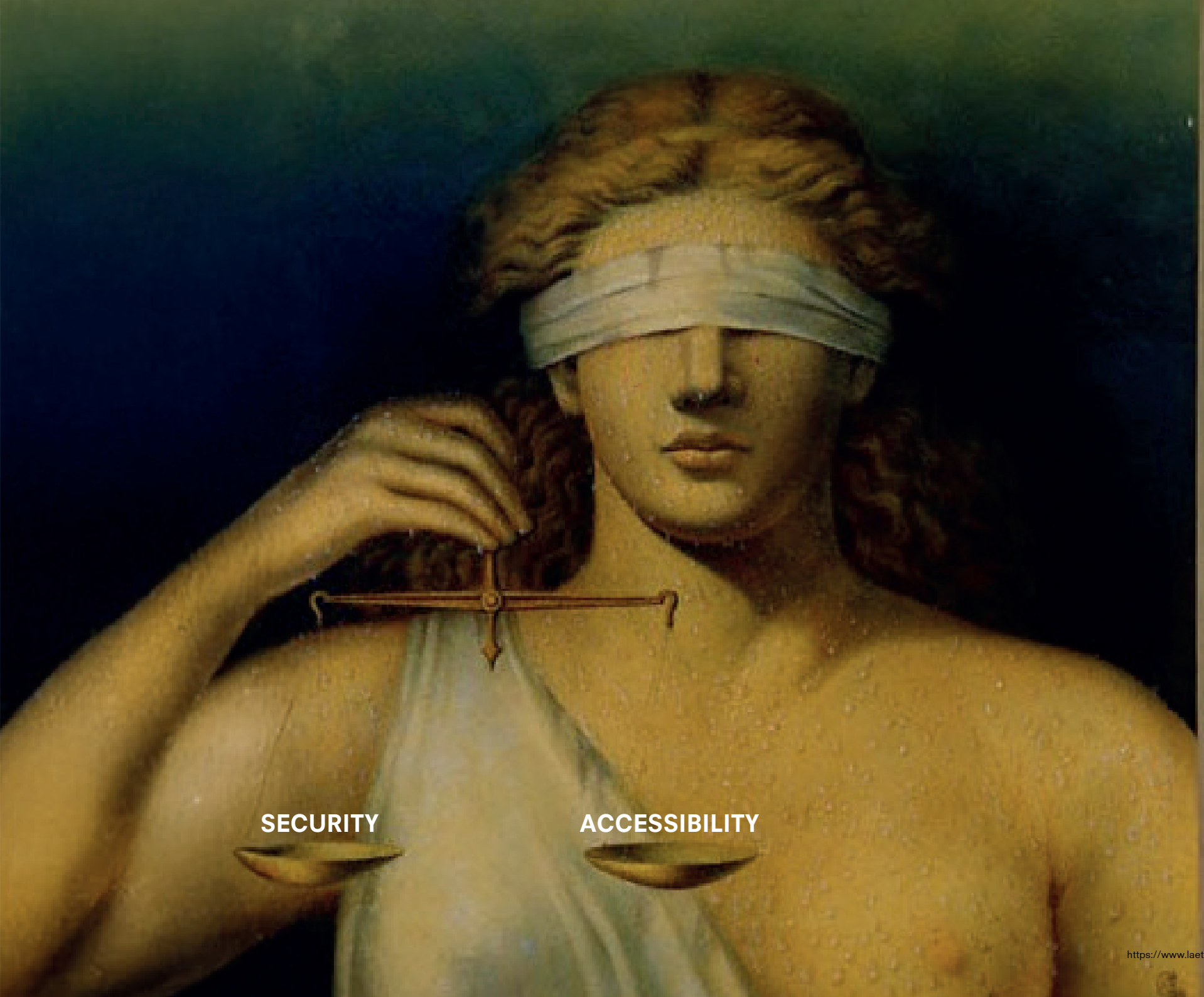


"THERE'S HOW SAFE YOU ARE AND THERE'S HOW SAFE YOU FEEL"

Joseph Collins, FAIA, a partner at Portland, Ore.'s ZGF Architects.



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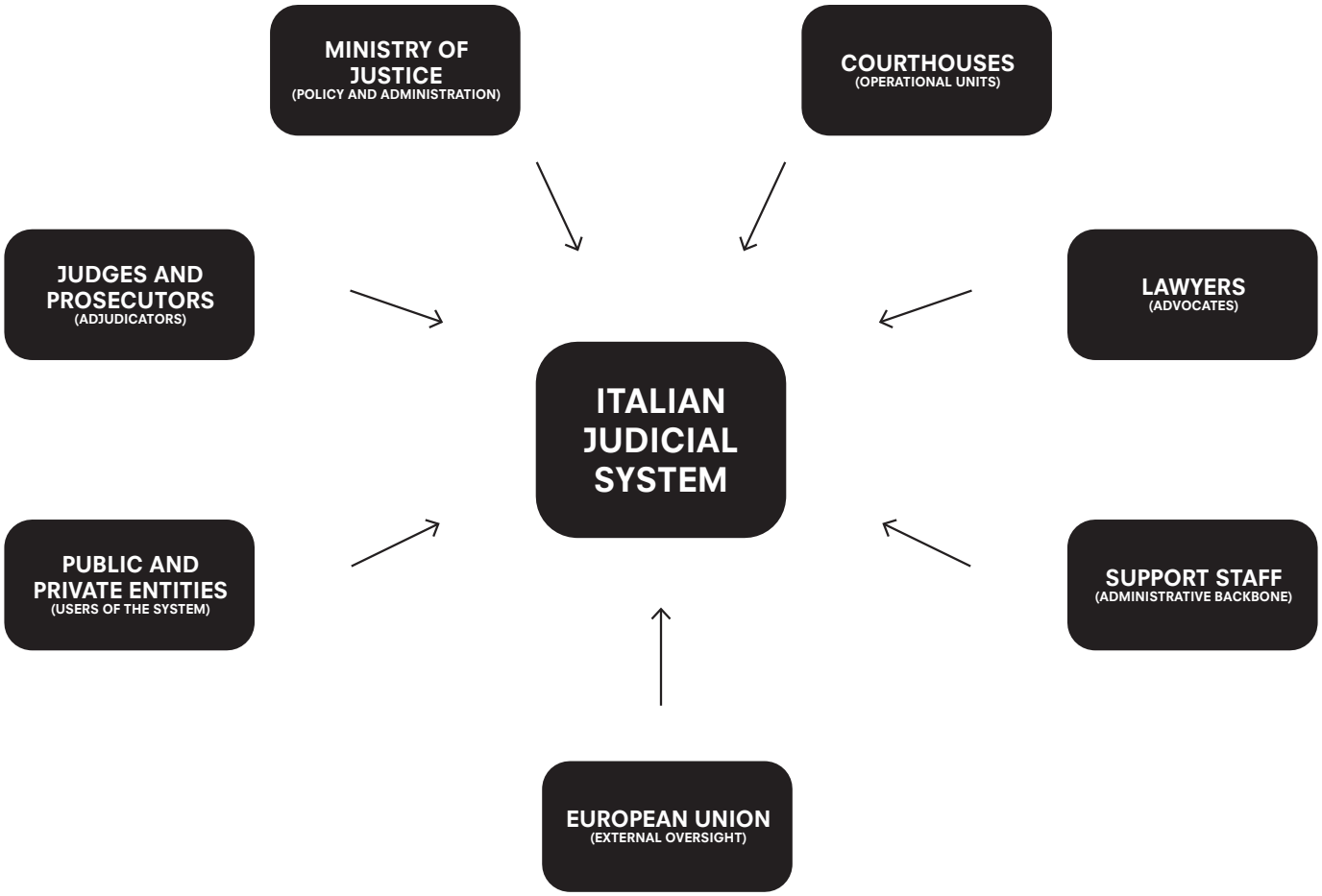
HOW CAN THE COURTHOUSE BALANCE
ACCESSIBILITY AND SECURITY
TO FOSTER PUBLIC TRUST IN THE JUDICIAL SYSTEM?

CLIENT
BALANCING TRUST

SYSTEM CLIENT

ITALIAN JUDICIAL SYSTEM

SYSTEM CLIENT



SYSTEM CLIENT

APPELLATE COURT

LESS SERIOUS CRIME — MOST SERIOUS CRIME

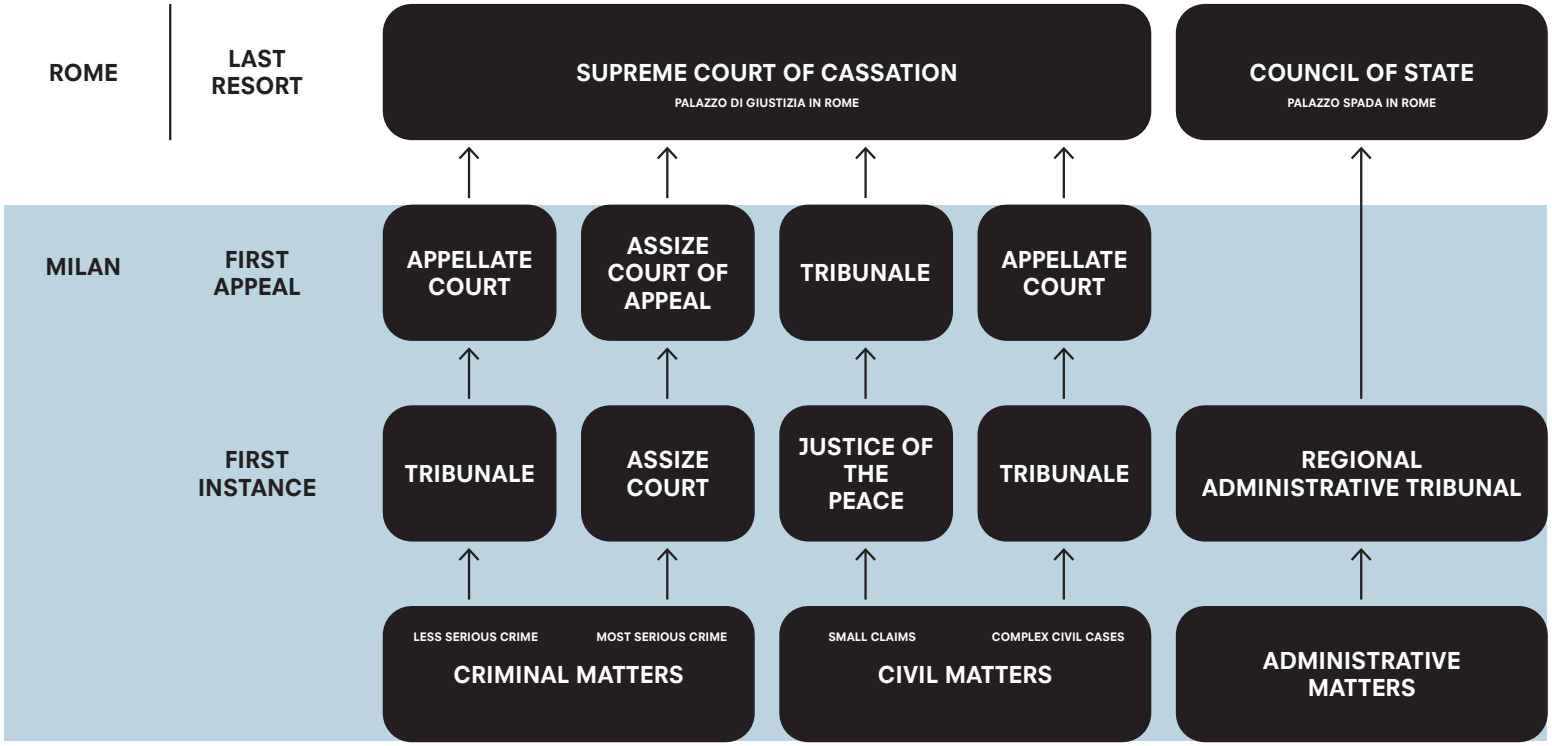
CRIMINAL MATTERS

SMALL CLAIMS — COMPLEX CIVIL CASES

CIVIL MATTERS

ADMINISTRATIVE MATTERS

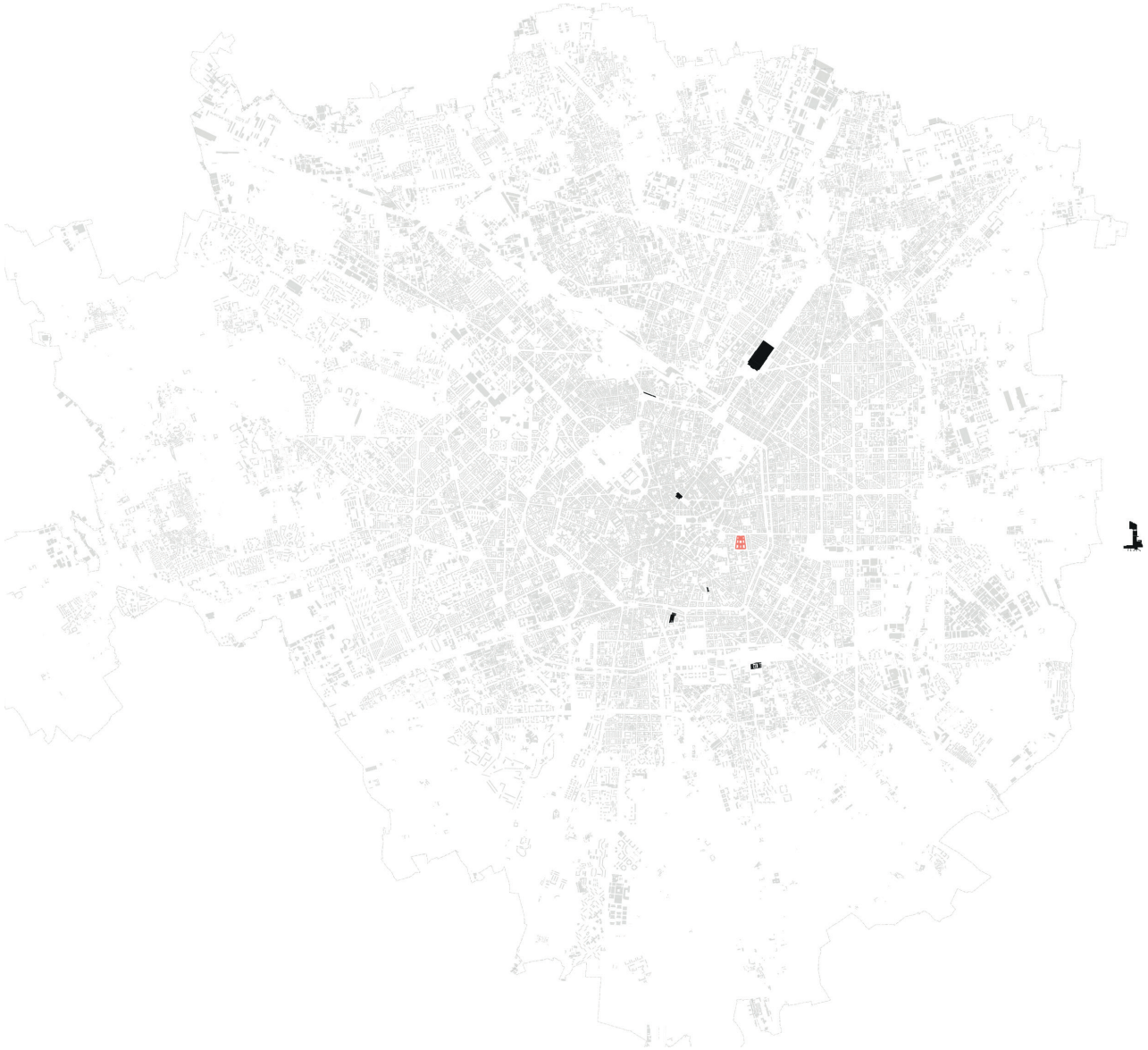
SYSTEM CLIENT



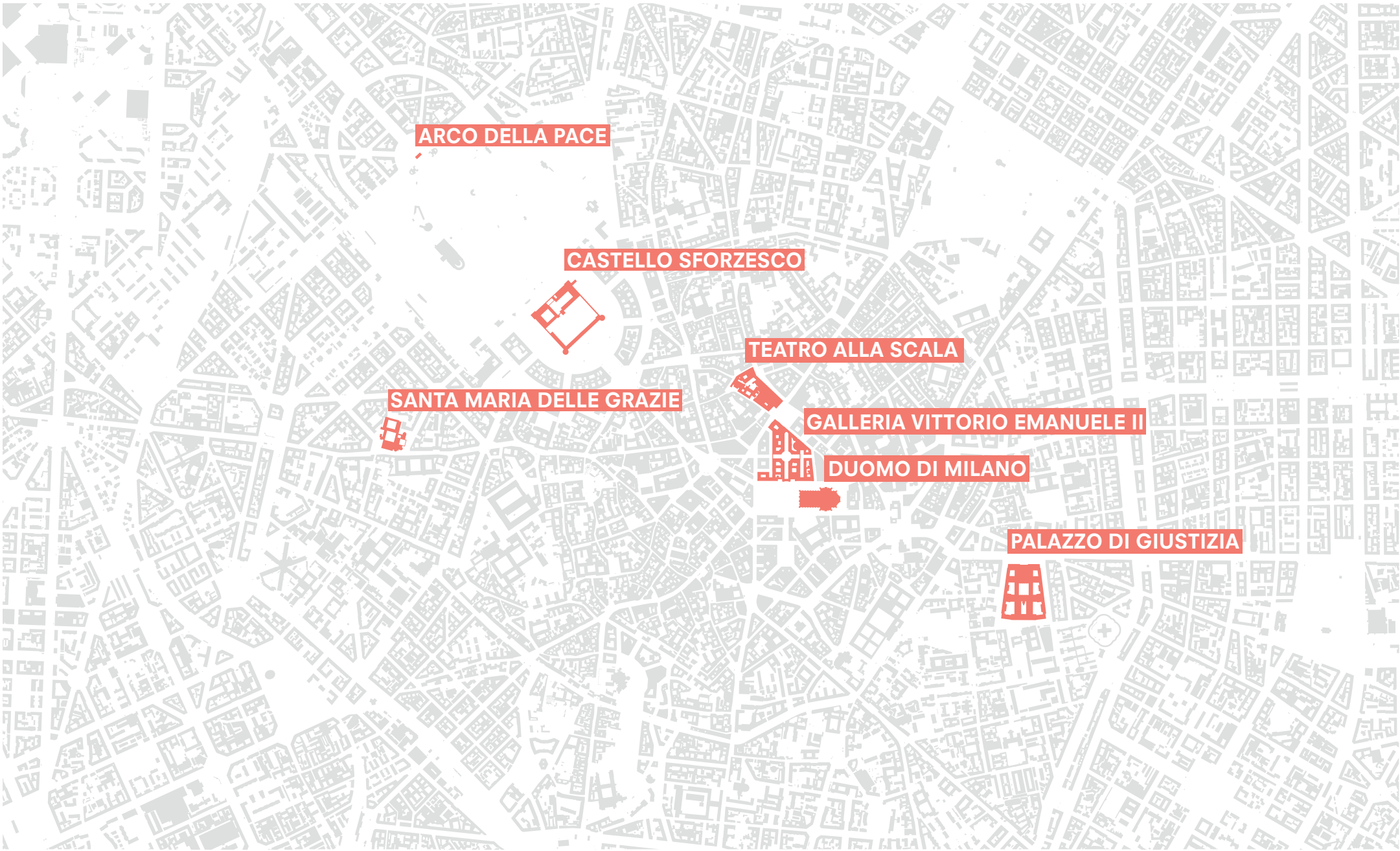
GLOBAL ACCESS TO JUSTICE (2024)

SITE
BALANCING TRUST

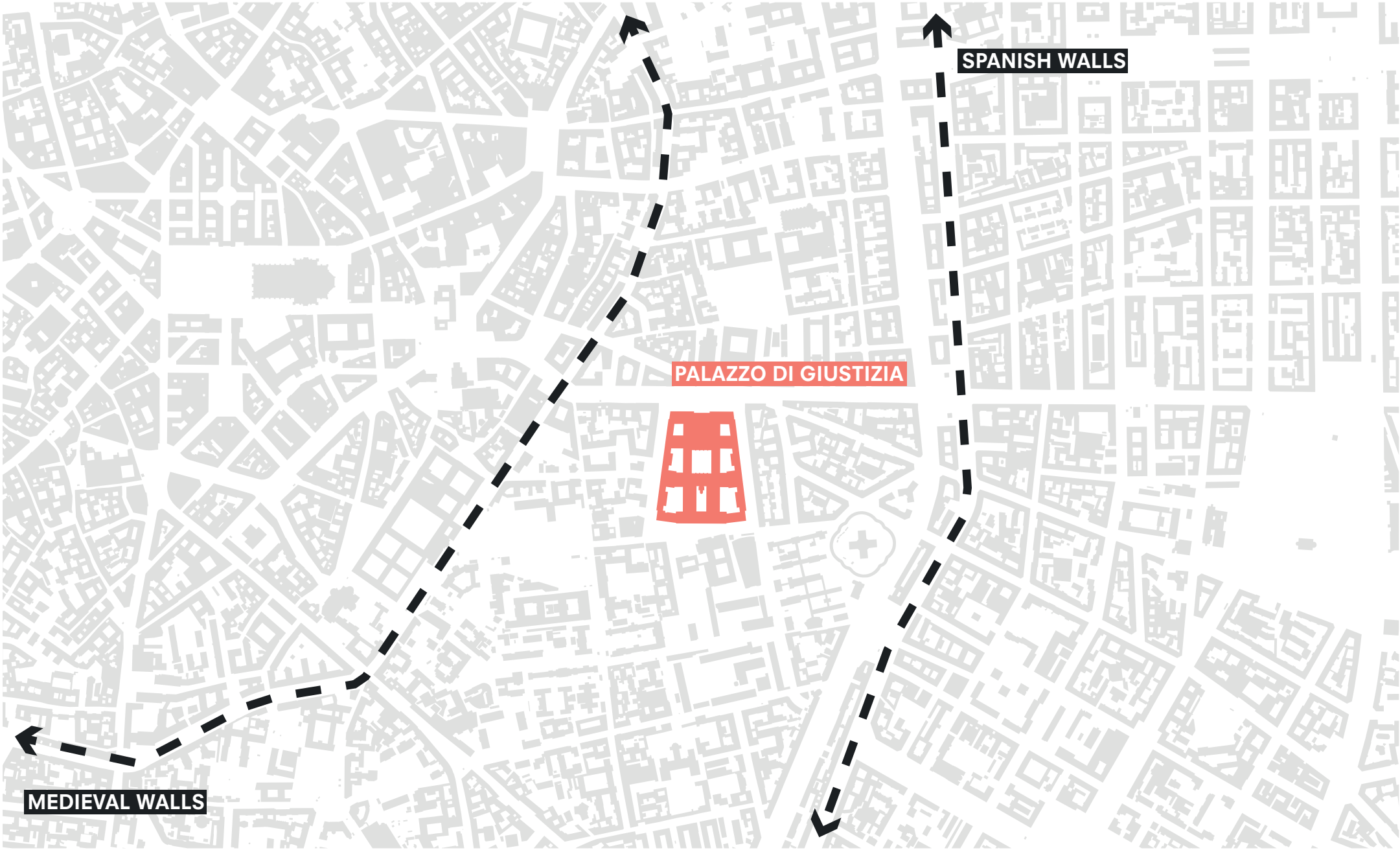
XL
SITE



L
SITE


ARCO DELLA PACE
CASTELLO SFORZESCO
TEATRO ALLA SCALA
SANTA MARIA DELLE GRAZIE
GALLERIA VITTORIO EMANUELE II
DUOMO DI MILANO
PALAZZO DI GIUSTIZIA

M
SITE





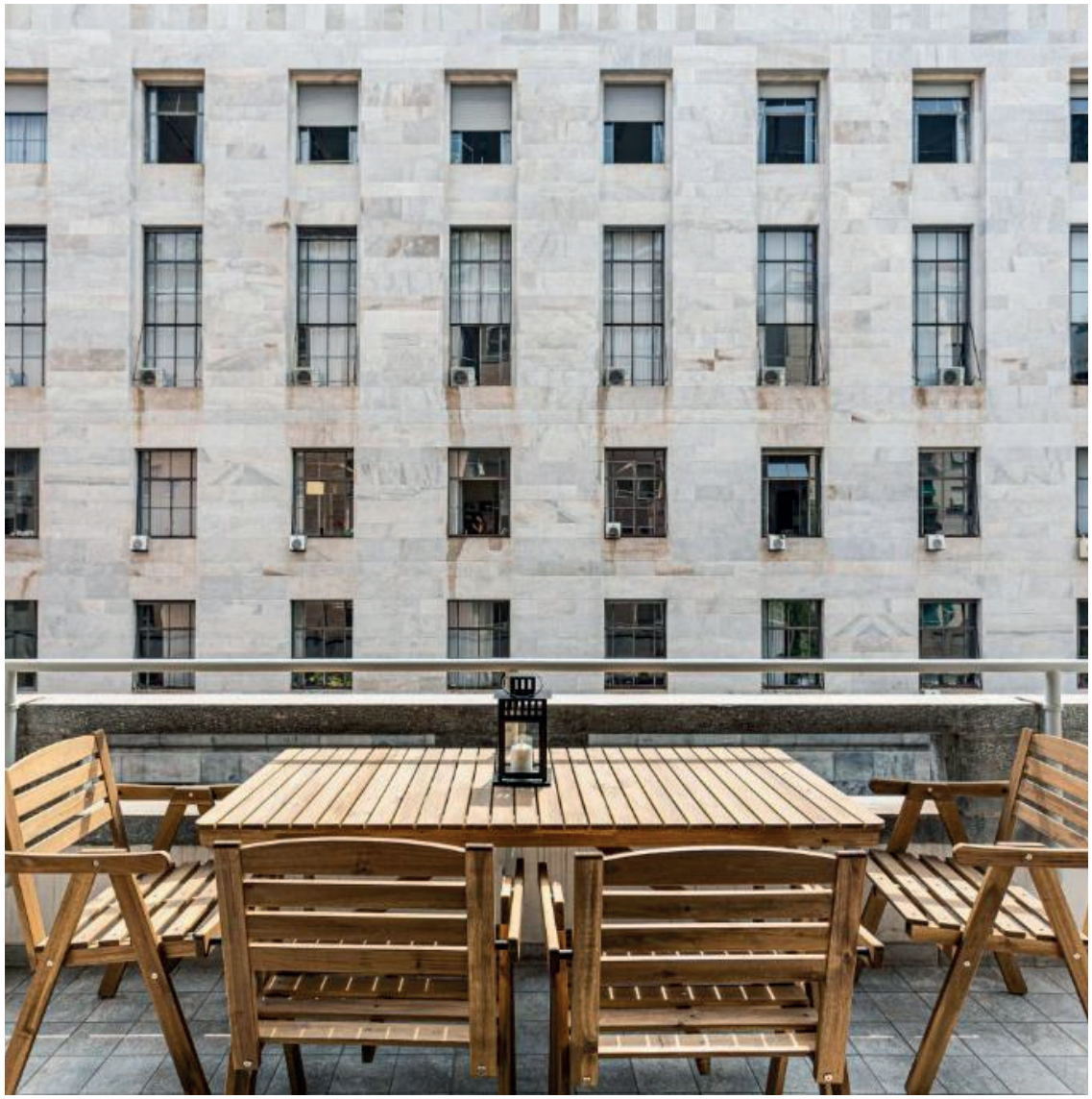
https://www.milanotoday.it/cronaca/riforma-giustizia-sciopero-protesta-magistrati.html



https://www.agenzianova.com/news/wp-content/uploads/2024/04/Manifestazione.png

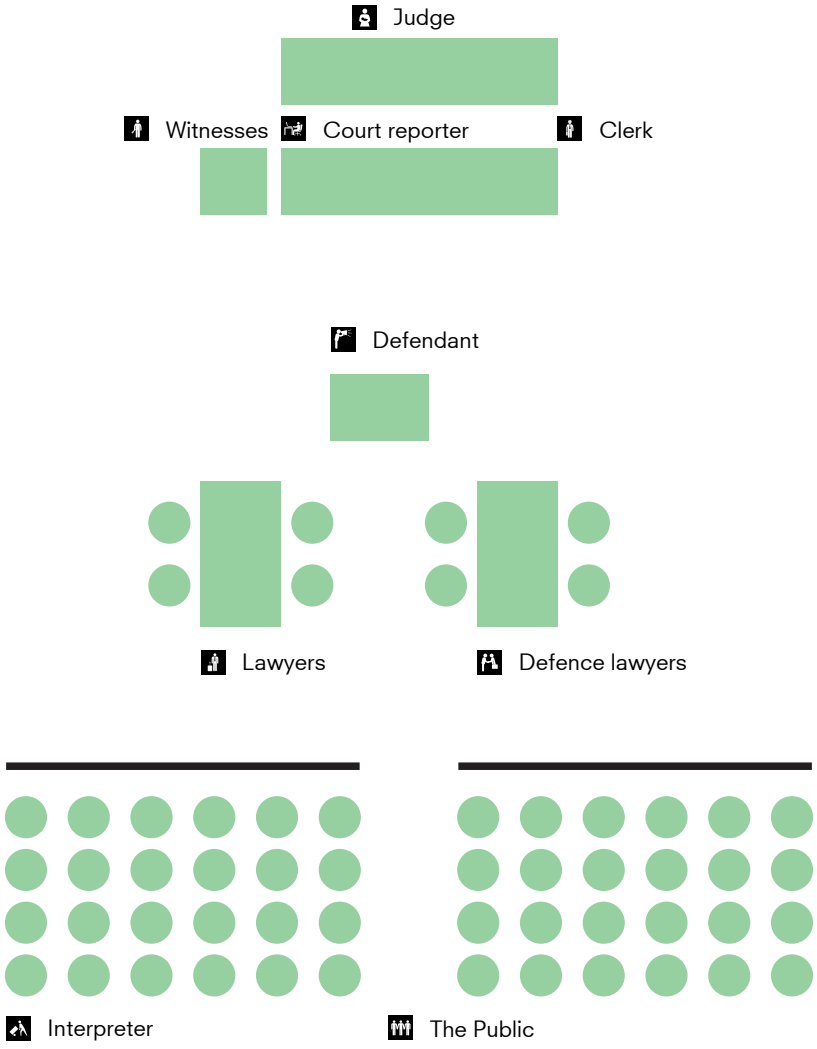


https://www.milanotoday.it/cronaca/riforma-giustizia-sciopero-protesta-magistrati.html



PROGRAM
BALANCING TRUST

USERS PROGRAM



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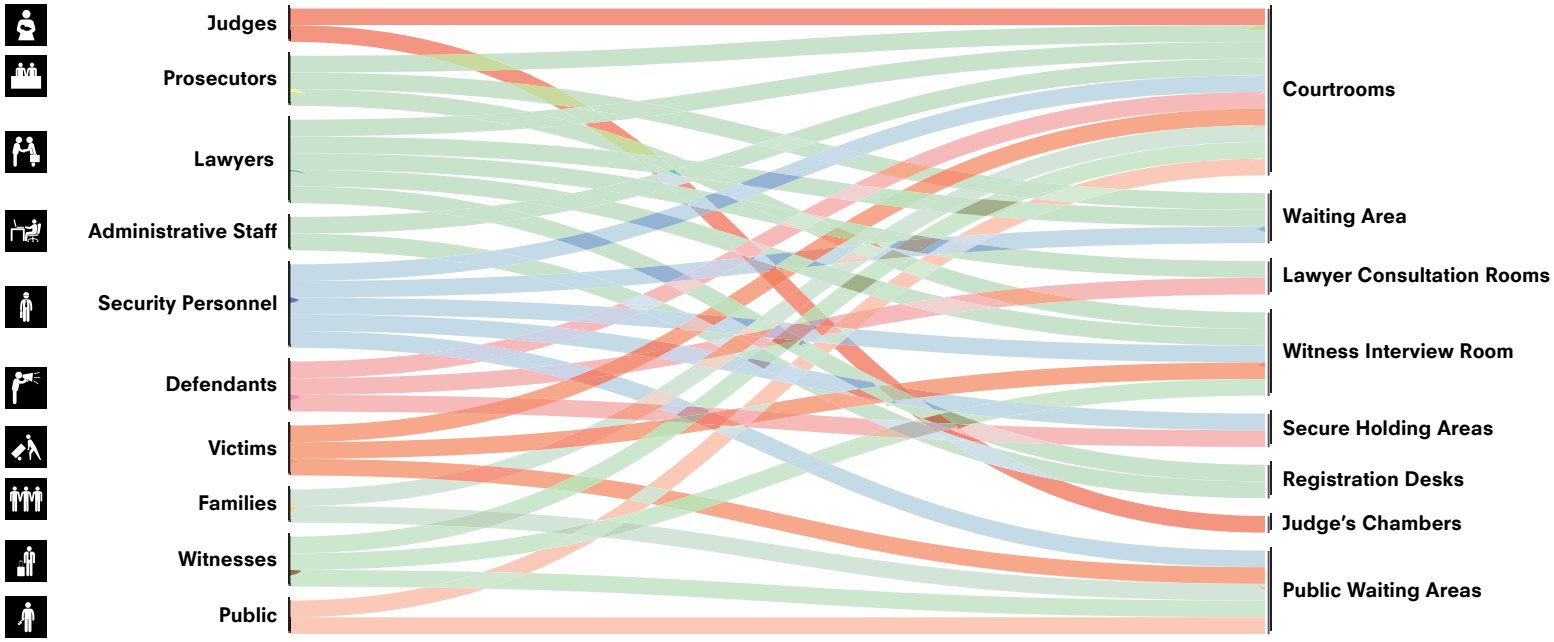
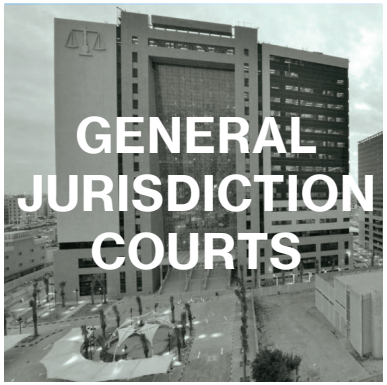
USERS PROGRAM



REFERENCES PROGRAM



AL-REGGAE AND AL-JAHRA COURT COMPLEXES - KUWAIT
103,000 M²



CALGARY COURTS CENTRE - CANADA
92,903 M²



NEW SUPREME COURT BUILDING - SINGAPORE
66,000 M²



VICTORIAN COUNTY COURT - AUSTRALIA
52,000 M²



ROMA MITCHELL COMMONWEALTH - AUSTRALIA
22,000 M²



BROOKLYN SUPREME AND FAMILY - USA
78,967 M²



SAN BERNARDINO COURTHOUSE - USA
35,861 M²

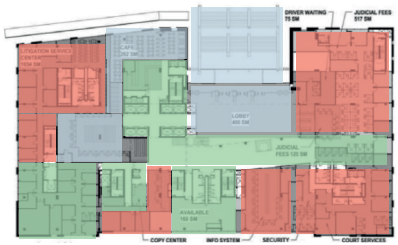


COURTHOUSE AMSTERDAM - THE NETHERLANDS
50,000 M²



PALAZZO DI GIUSTIZIA - ITALY
161,000 M²

REFERENCES
PROGRAM



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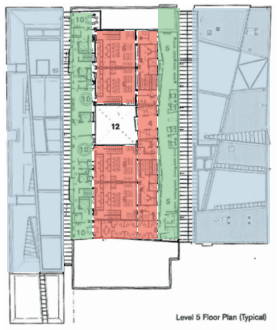
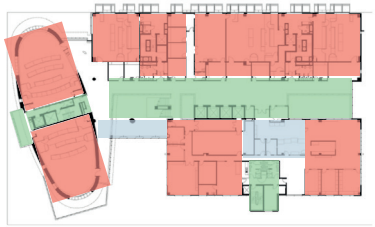
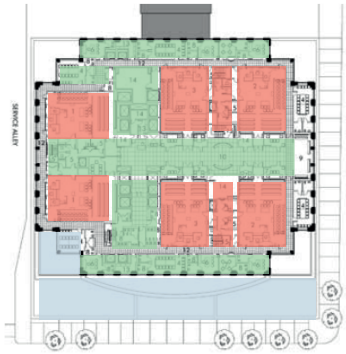


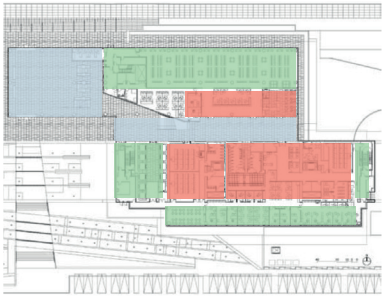
VICTORIAN COUNTY COURT - AUSTRALIA
52,000 M²



ROMA MITCHELL COMMONWEALTH - AUSTRALIA
22,000 M²



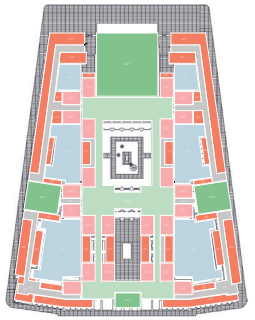
BROOKLYN SUPREME AND FAMILY - USA
78,967 M²



SAN BERNARDINO COURTHOUSE - USA
35,861 M²

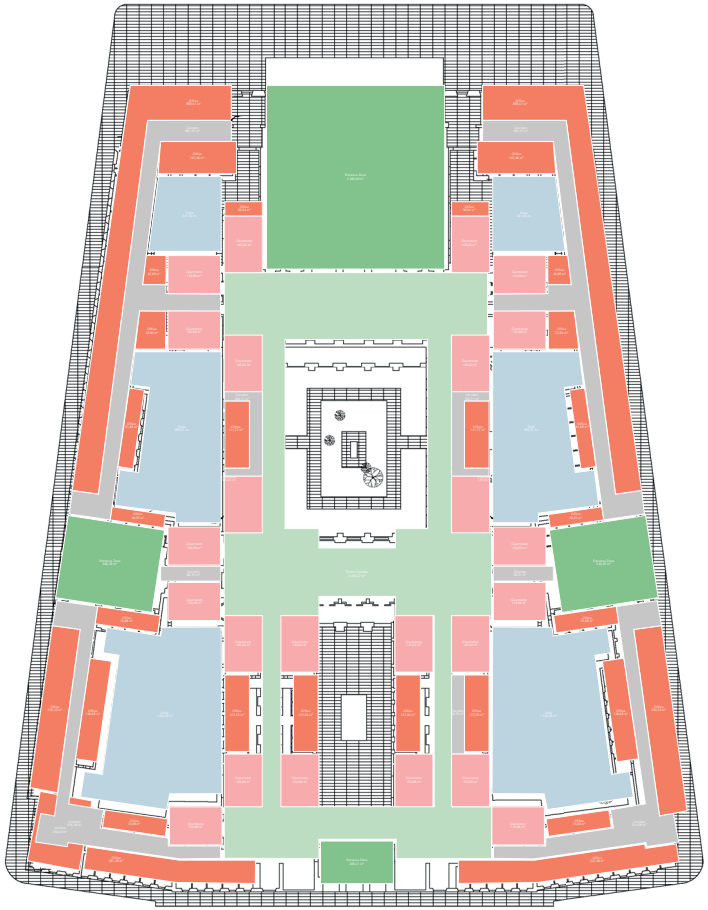


COURTHOUSE AMSTERDAM - THE NETHERLANDS
50,000 M²



PALAZZO DI GIUSTIZIA - ITALY
161,000 M²

BREAKDOWN PROGRAM

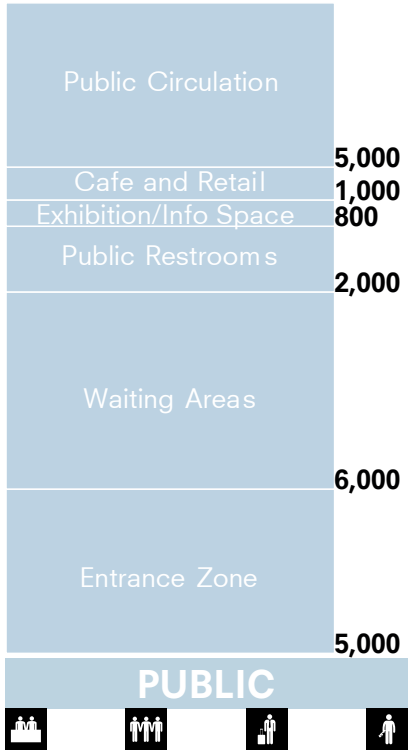


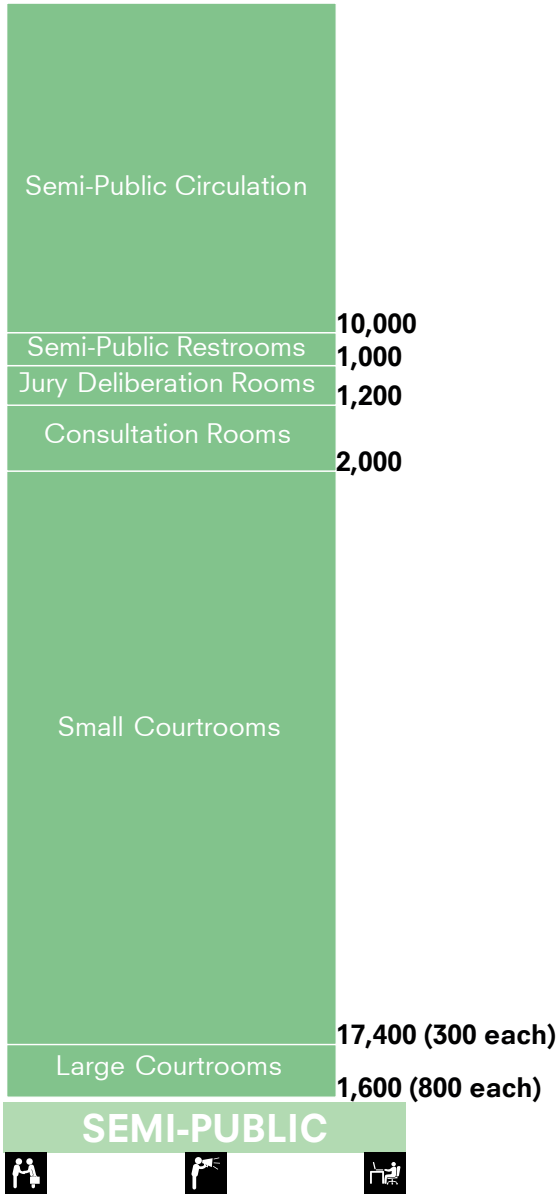
PUBLIC

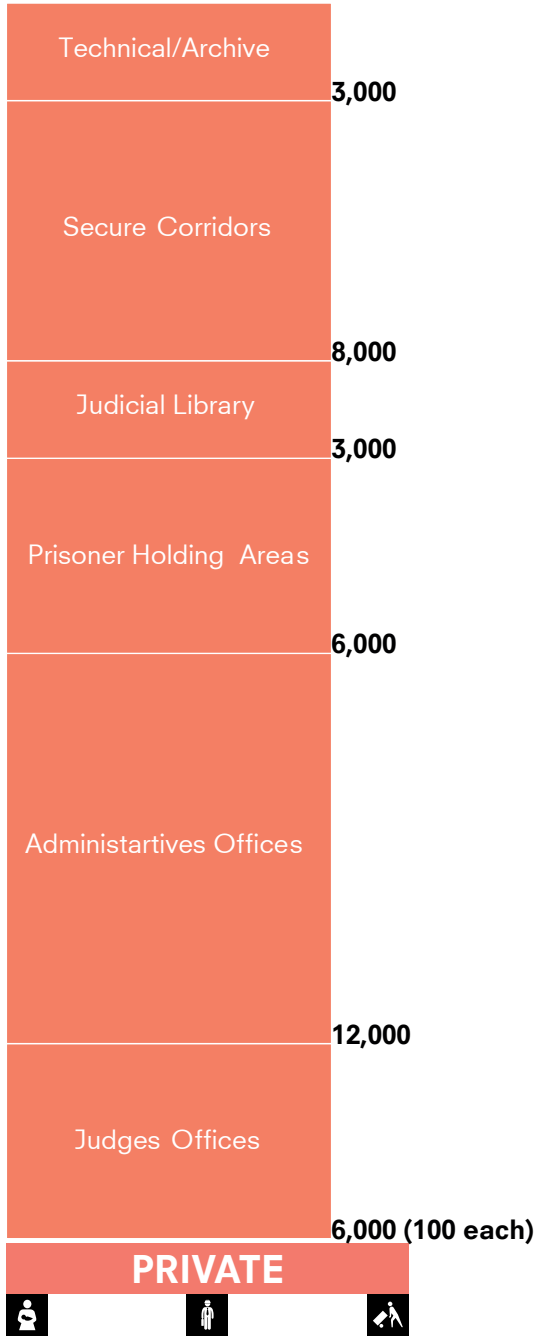
SEMI-PUBLIC

PRIVATE

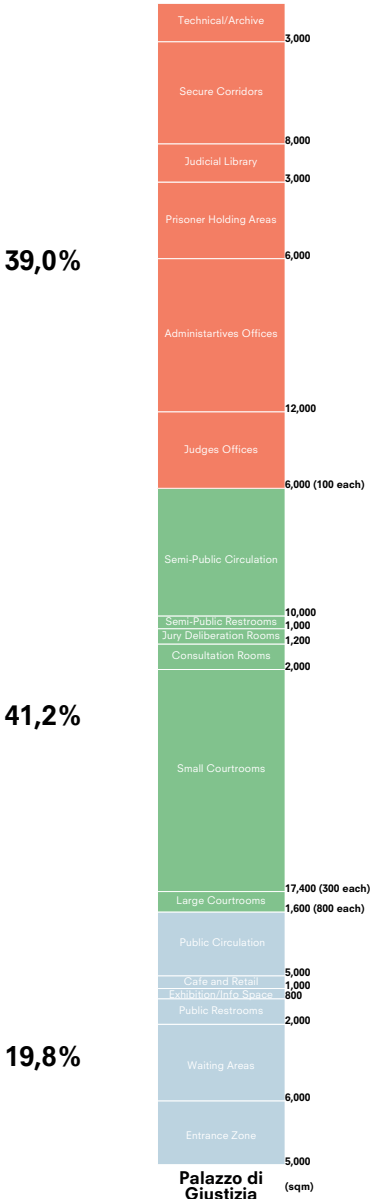
BREAKDOWN PROGRAM







DESIGN BRIEF
PROGRAM

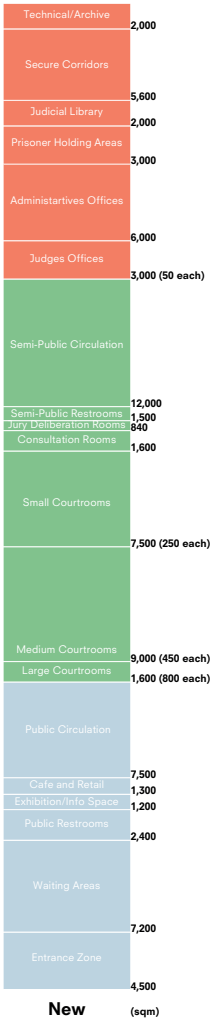




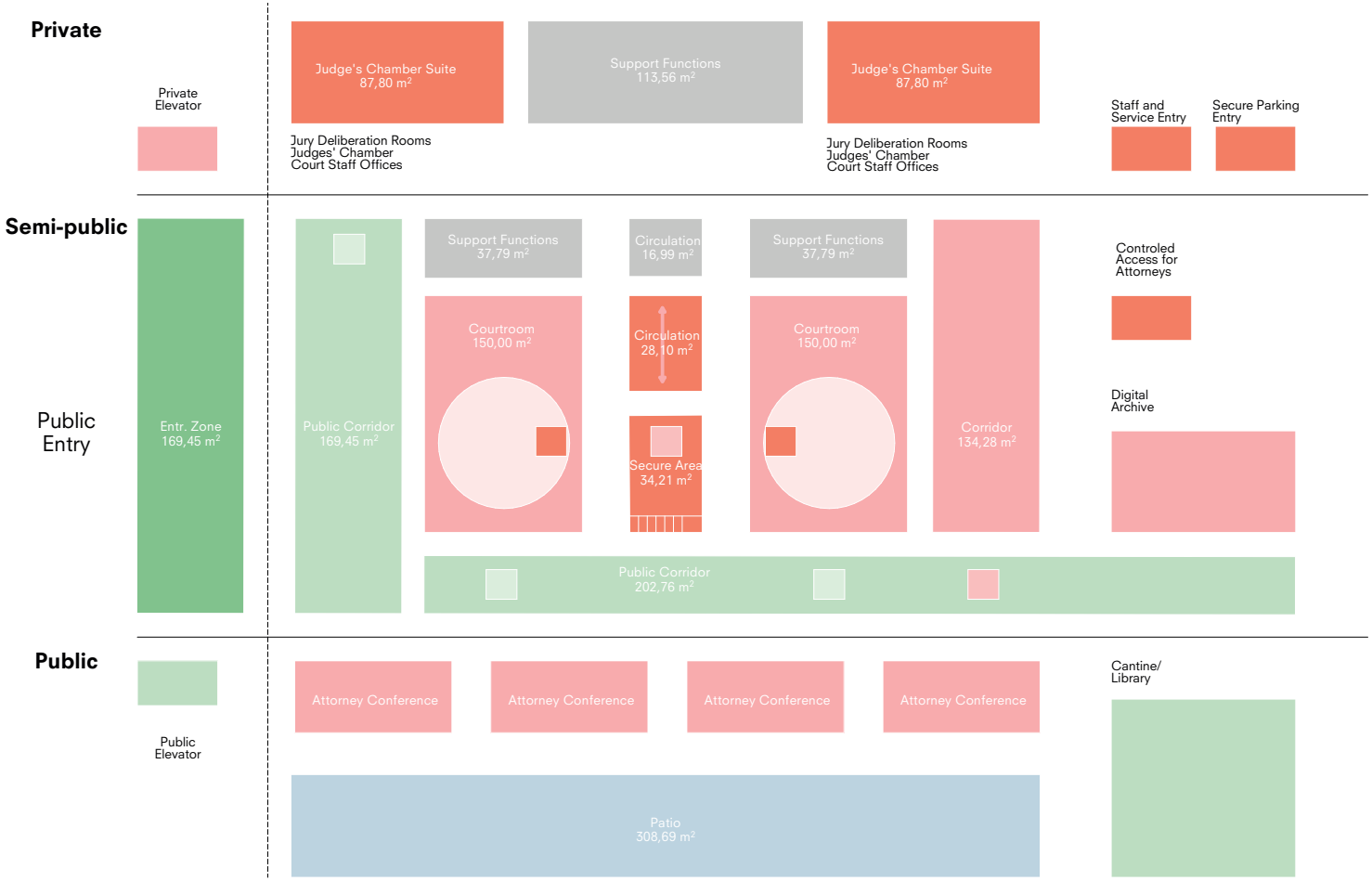
ENHANCED SECURITY MEASURES

INCREASED PUBLIC SPACE FOR ACCESSIBILITY

IMPROVED CIRCULATION AND FLOW

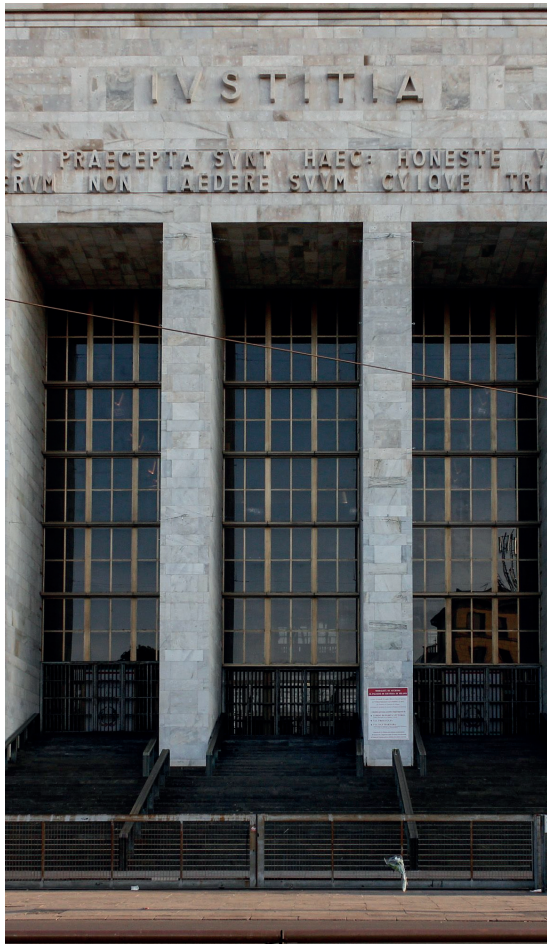


SCHEME PROGRAM



HOW CAN THE COURTHOUSE BALANCE
ACCESSIBILITY AND SECURITY
TO FOSTER PUBLIC TRUST IN THE JUDICIAL SYSTEM?

KEY FINDINGS
BALANCING TRUST



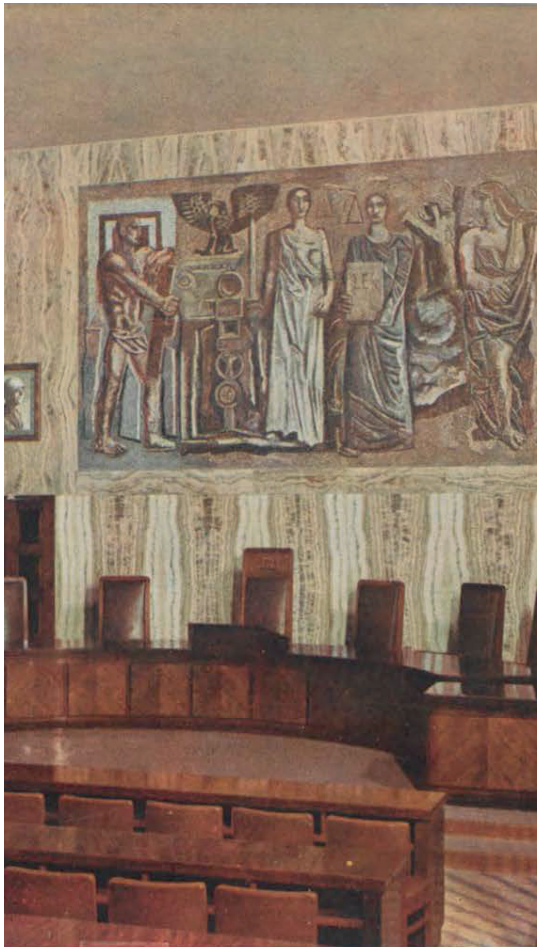
SITE

Monumental yet closed-off; limited public interface with urban context.



CLIENT

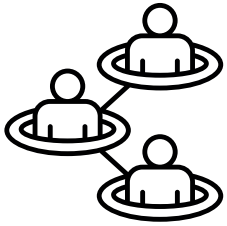
Requires efficiency, integrity, and symbolic representation of justice.



PROGRAM

Aims to be trust-worthy, open, and community-oriented.

DESIGN REQUIREMENTS
BALANCING TRUST



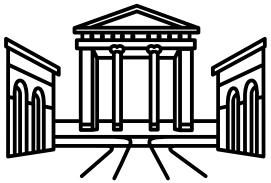
Clear Zoning



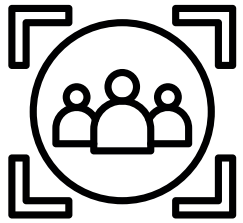
Symbolic Transparency



Layered Security

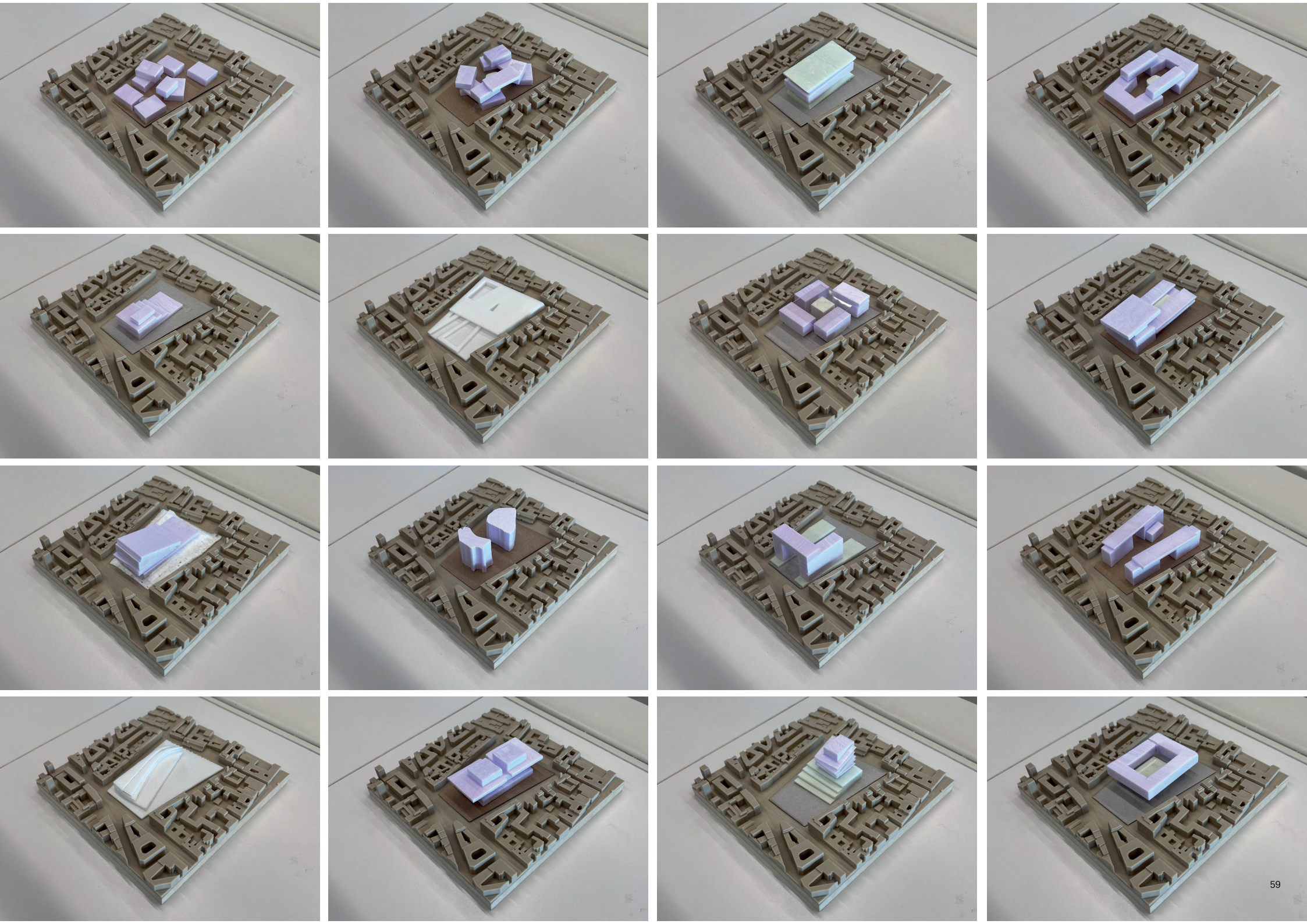


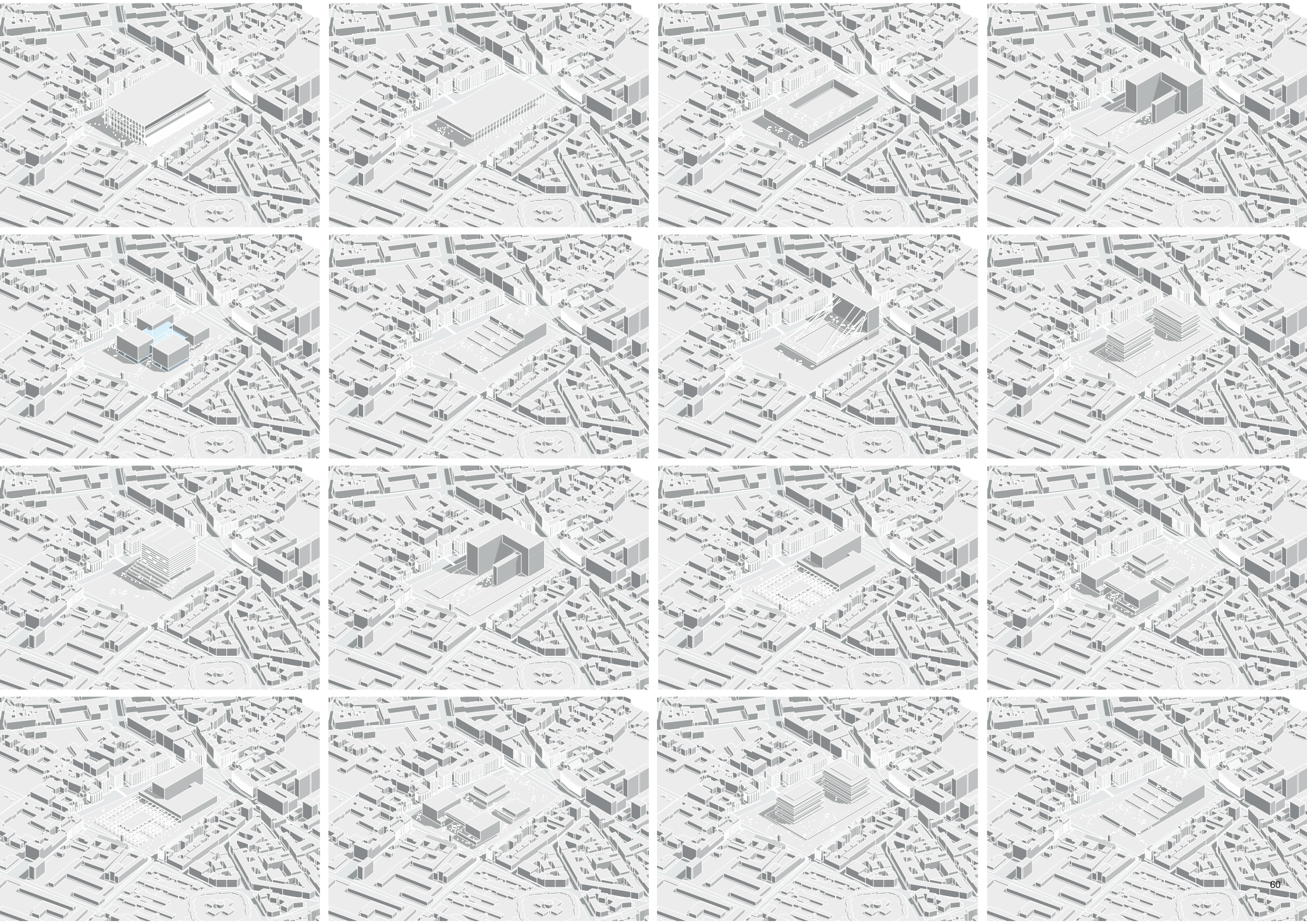
Urban Integration



User-Centric Design

MASSING
BALANCING TRUST

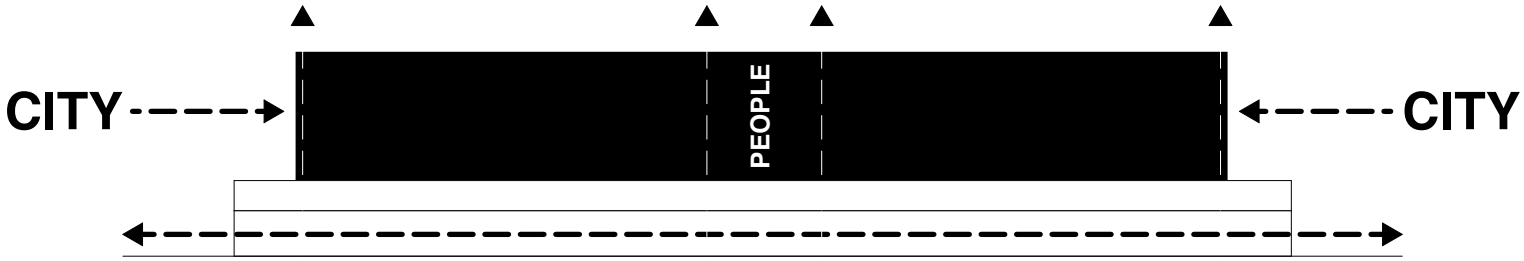


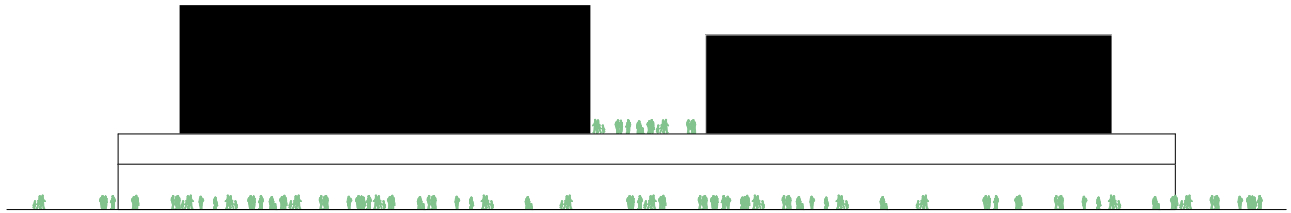







PRIVATE
PUBLIC


CITY
PEOPLE
CITY





DESIGN
BALANCING TRUST





Milan Graduation Studio





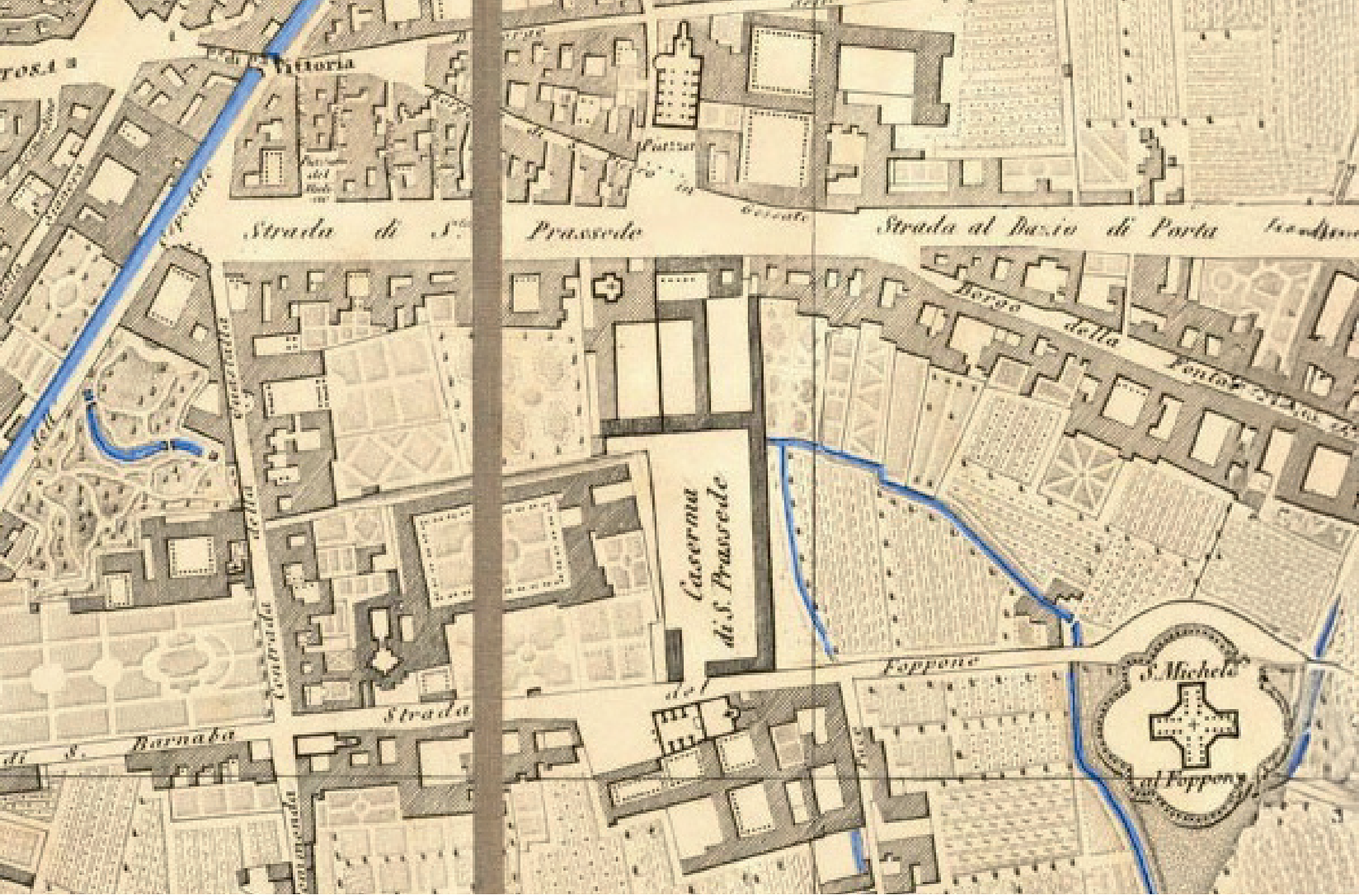



PUBLIC
PLAZZA DE MILANO


PUBLIC
PLAZZA DE MILANO


PUBLIC
PLAZZA DE MILANO


PLAZZA DE MILANO



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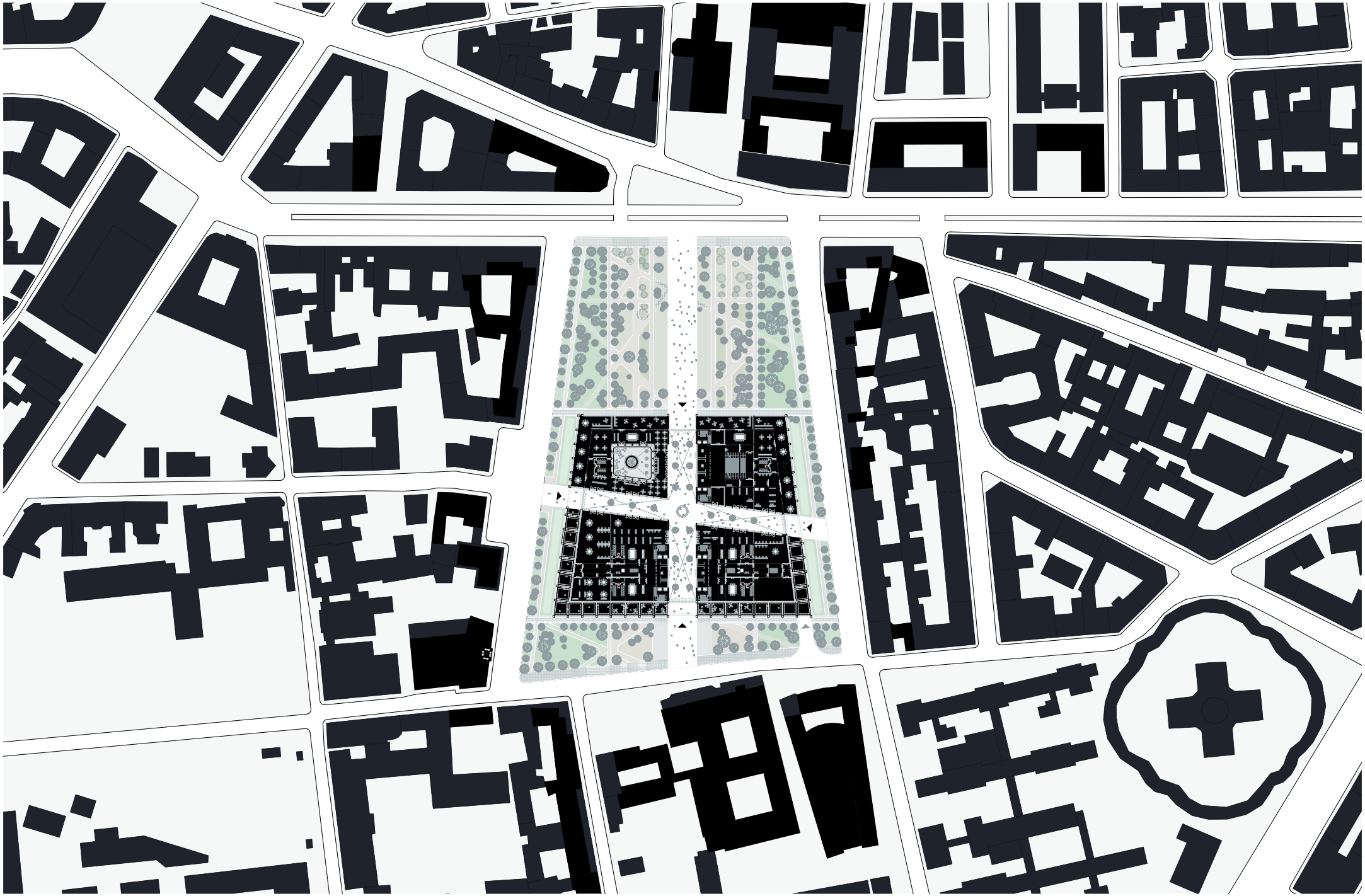
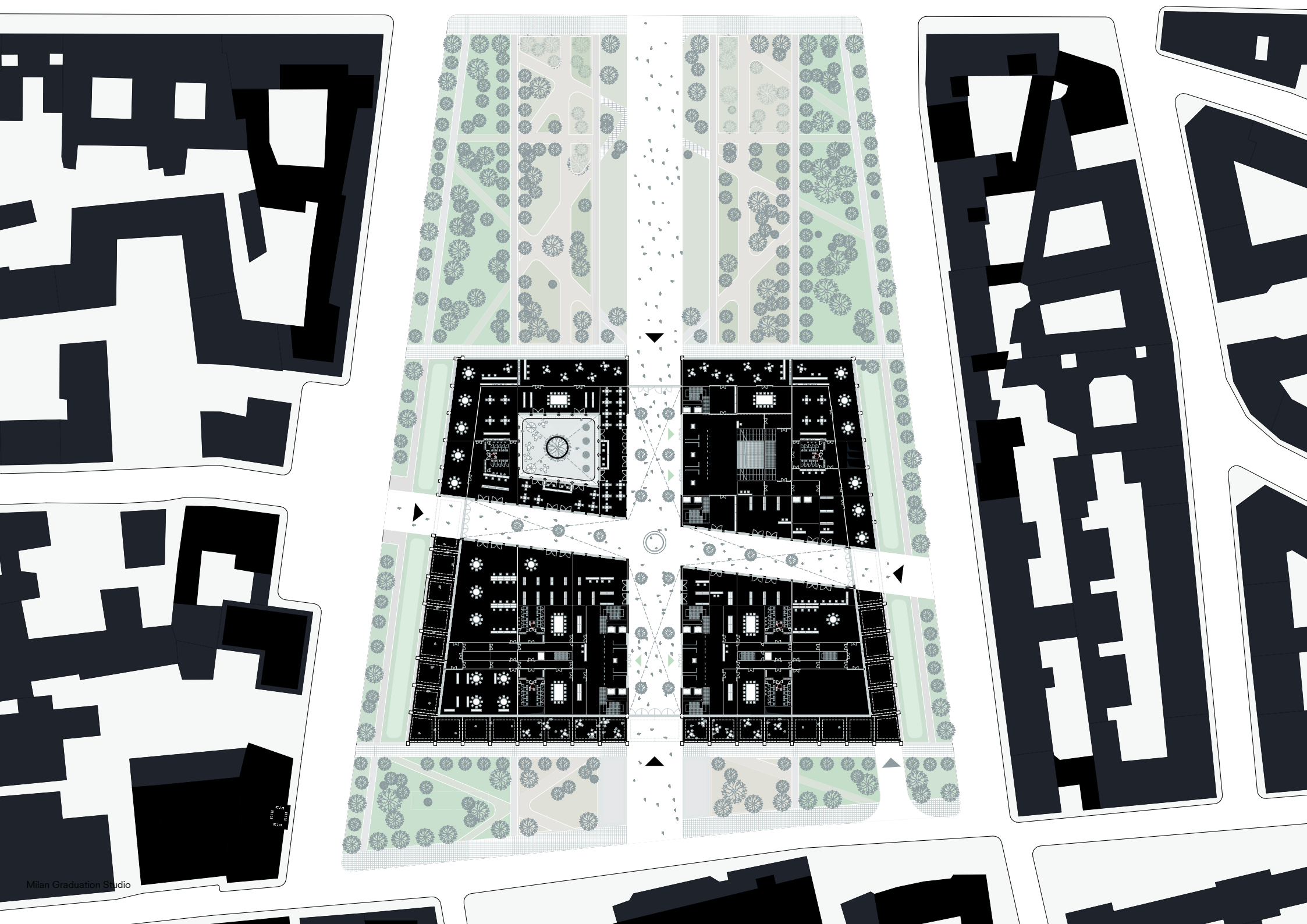
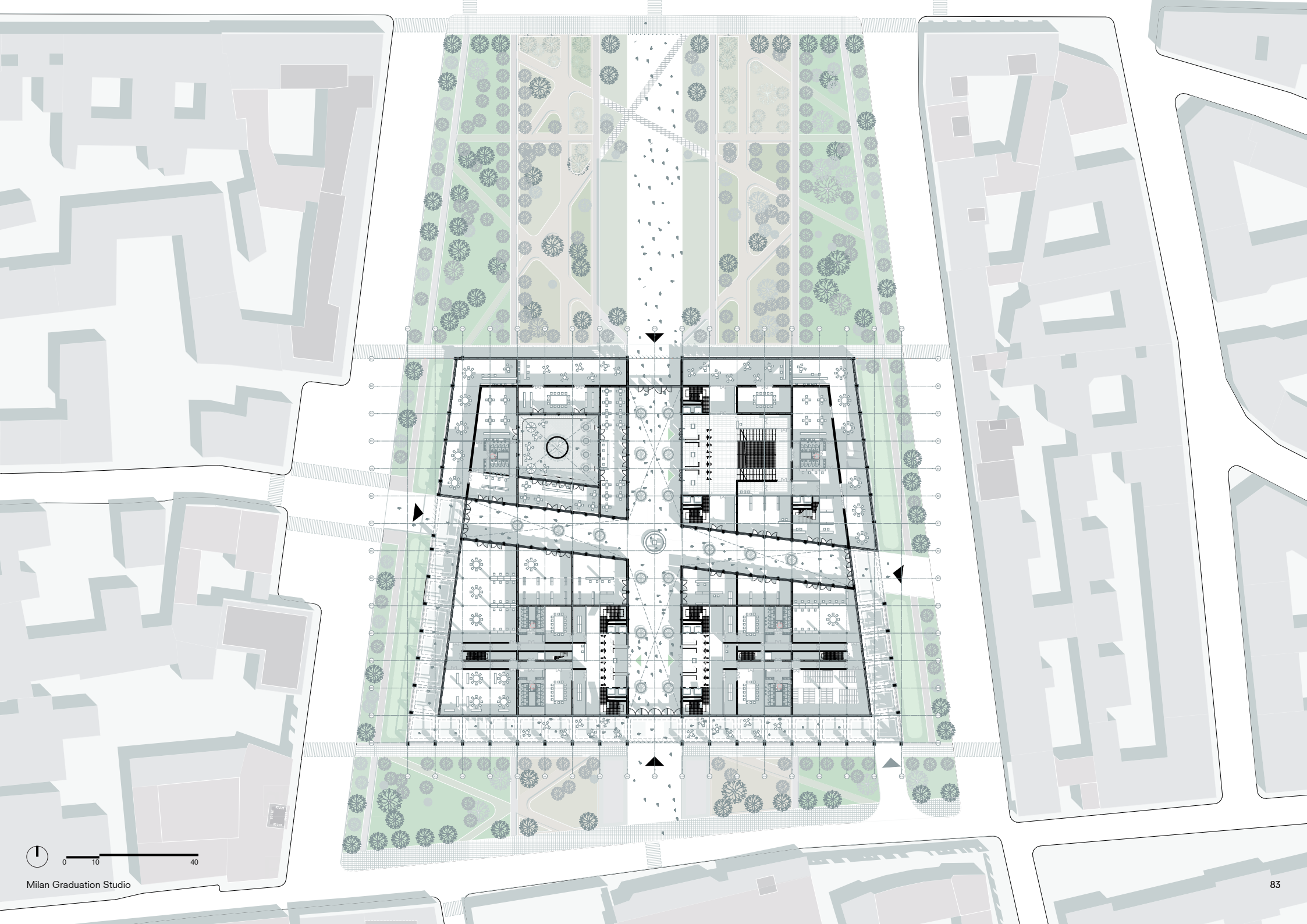




Milan Graduation Studio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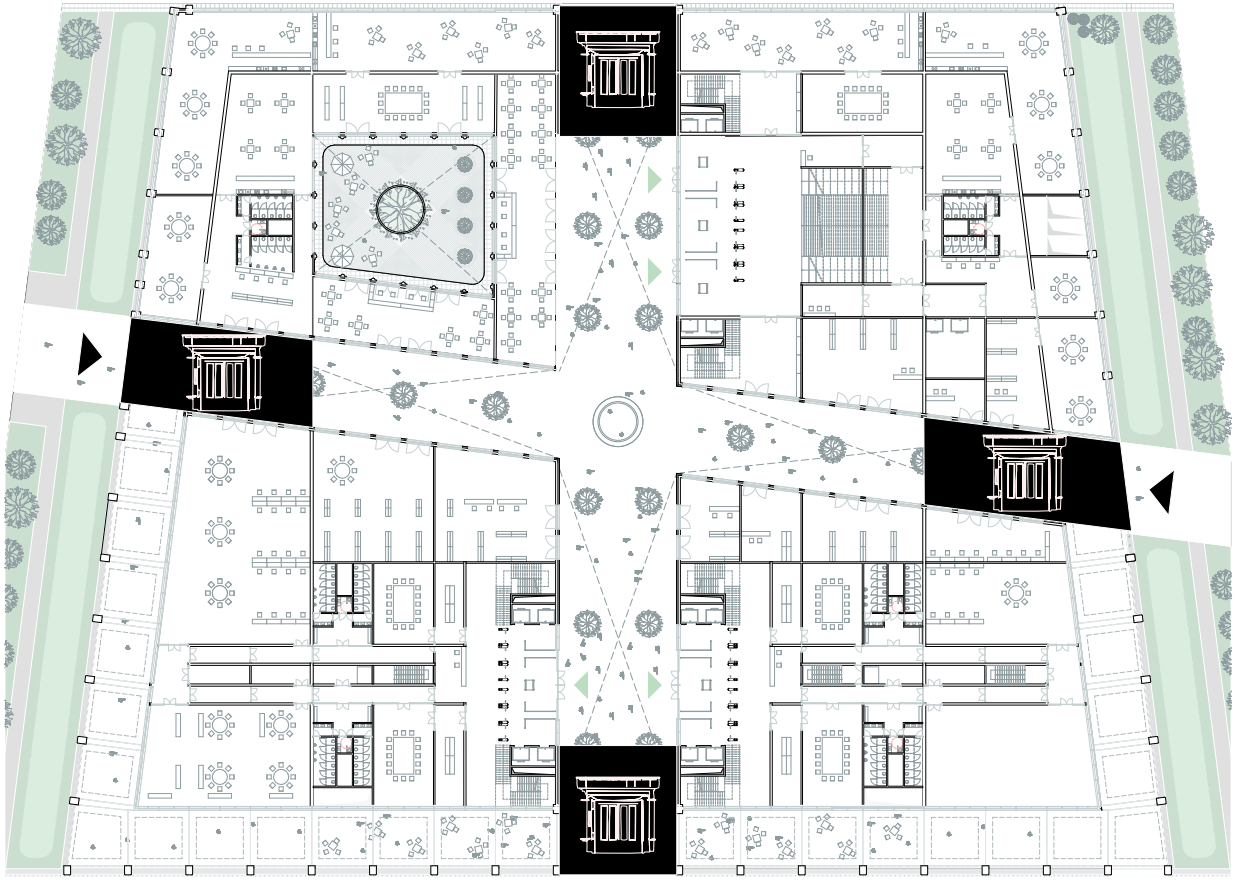
INGRESSI
BALANCING TRUST




PARIS



Photography: Seth Vane



Photography: Seth Vane



Photography: Seth Vane



Photography: Seth Vane



ZONE I

PUBLIC LOBBY AND ENTRANCE
PUBLIC WAITING AREAS
INFORMATION DESK
PUBLIC RESTROOMS
POSTED DOCKETS/DISPLAYS
PUBLIC GALLERIES IN COURTROOMS
WHERE ALLOWED)
PAYMENT COUNTERS

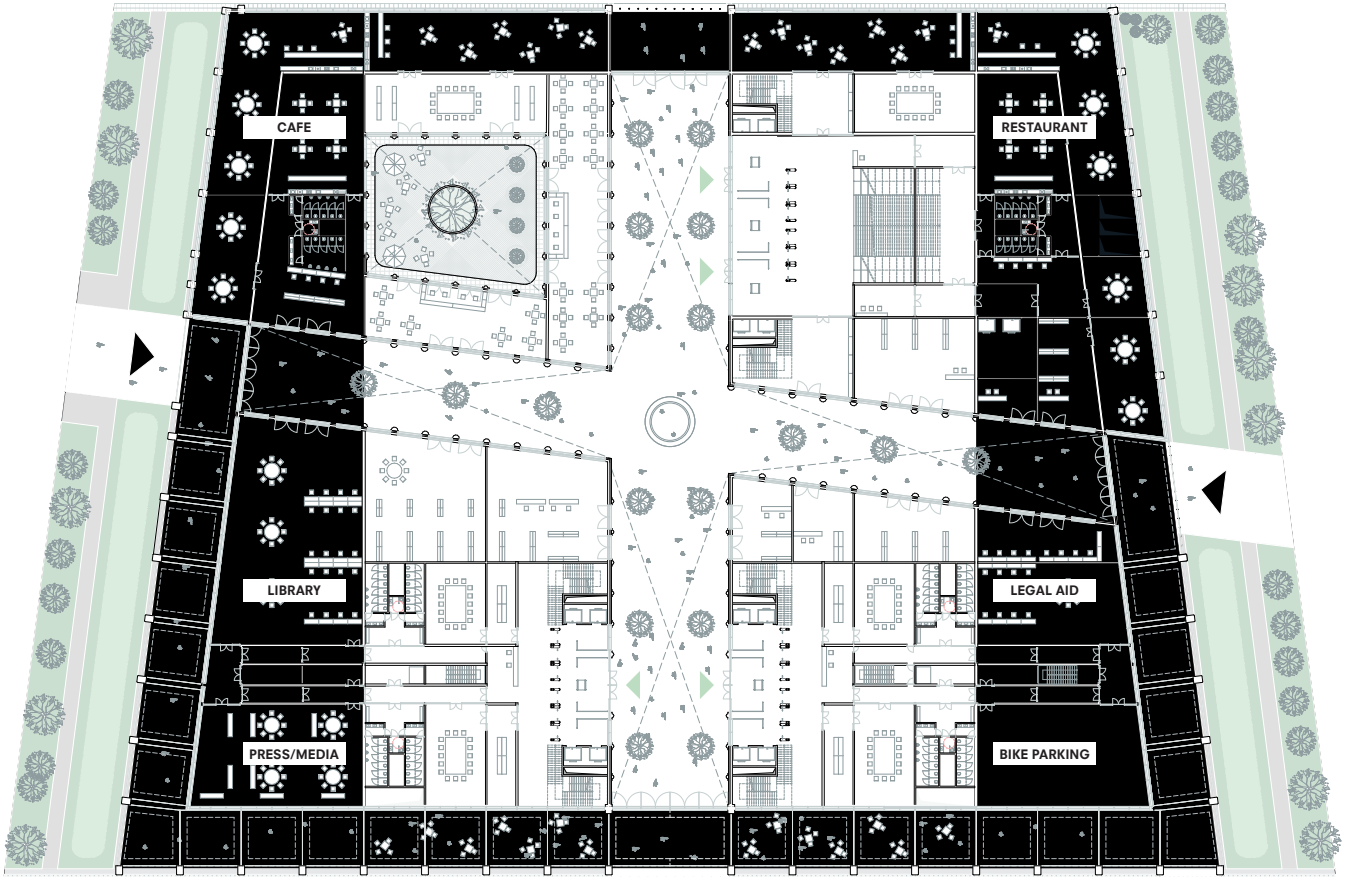
ZONE II

COURTROOMS (WHILE IN SESSION,
ACCESS CONTROLLED)
JURY ASSEMBLY/WAITING ROOMS
WITNESS WAITING ROOMS
ATTORNEY CONFERENCE ROOMS
PROBATION OFFICES
MEDIATION ROOMS
CLERK'S OFFICE COUNTERS

ZONE III

JUDGES' CHAMBERS
JURY DELIBERATION ROOMS
EVIDENCE STORAGE
HOLDING CELLS / LOCK-UP AREAS
SECURITY CONTROL ROOM

ZONE I
GROUND FLOOR



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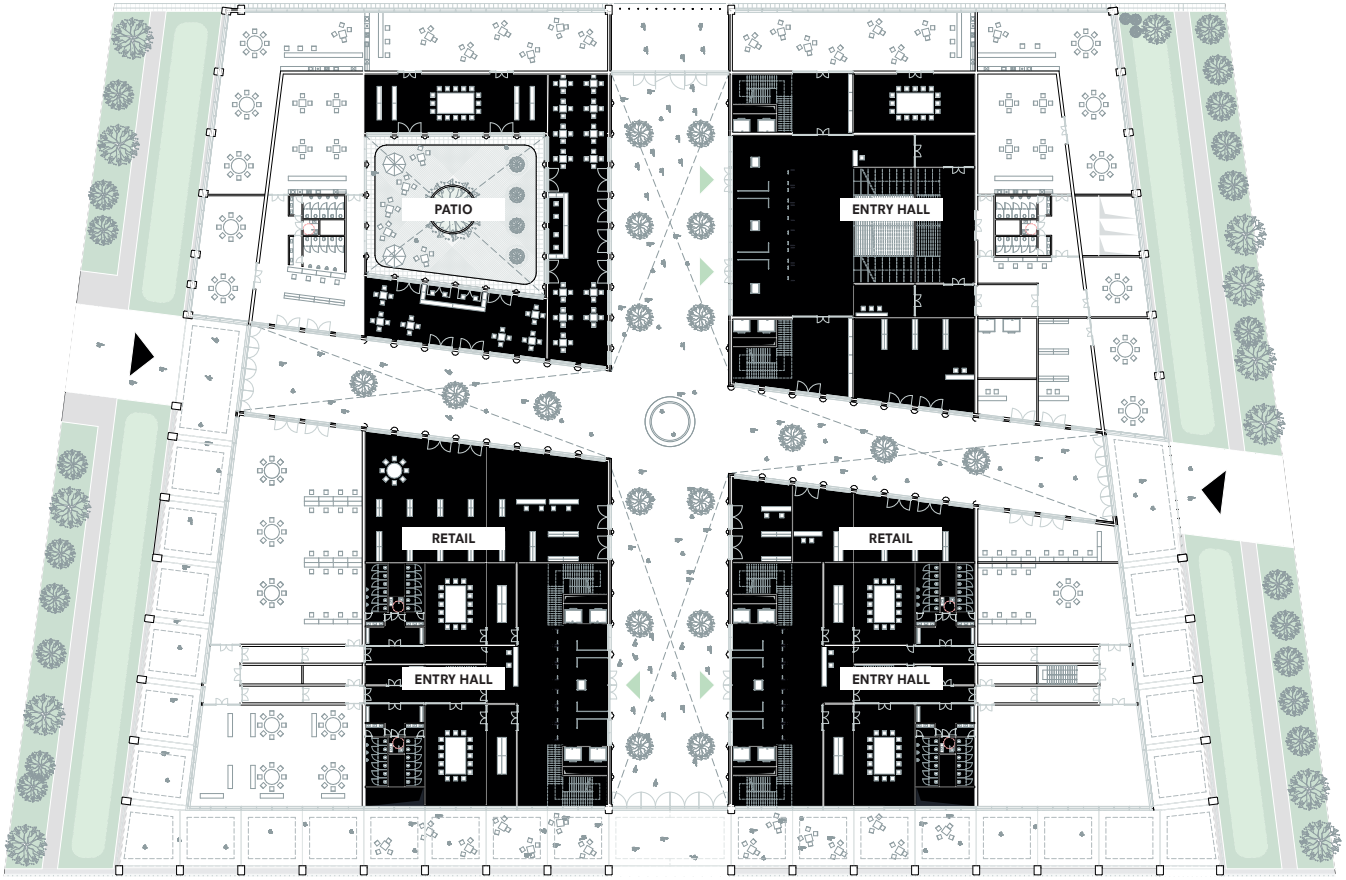
GROUND FLOOR



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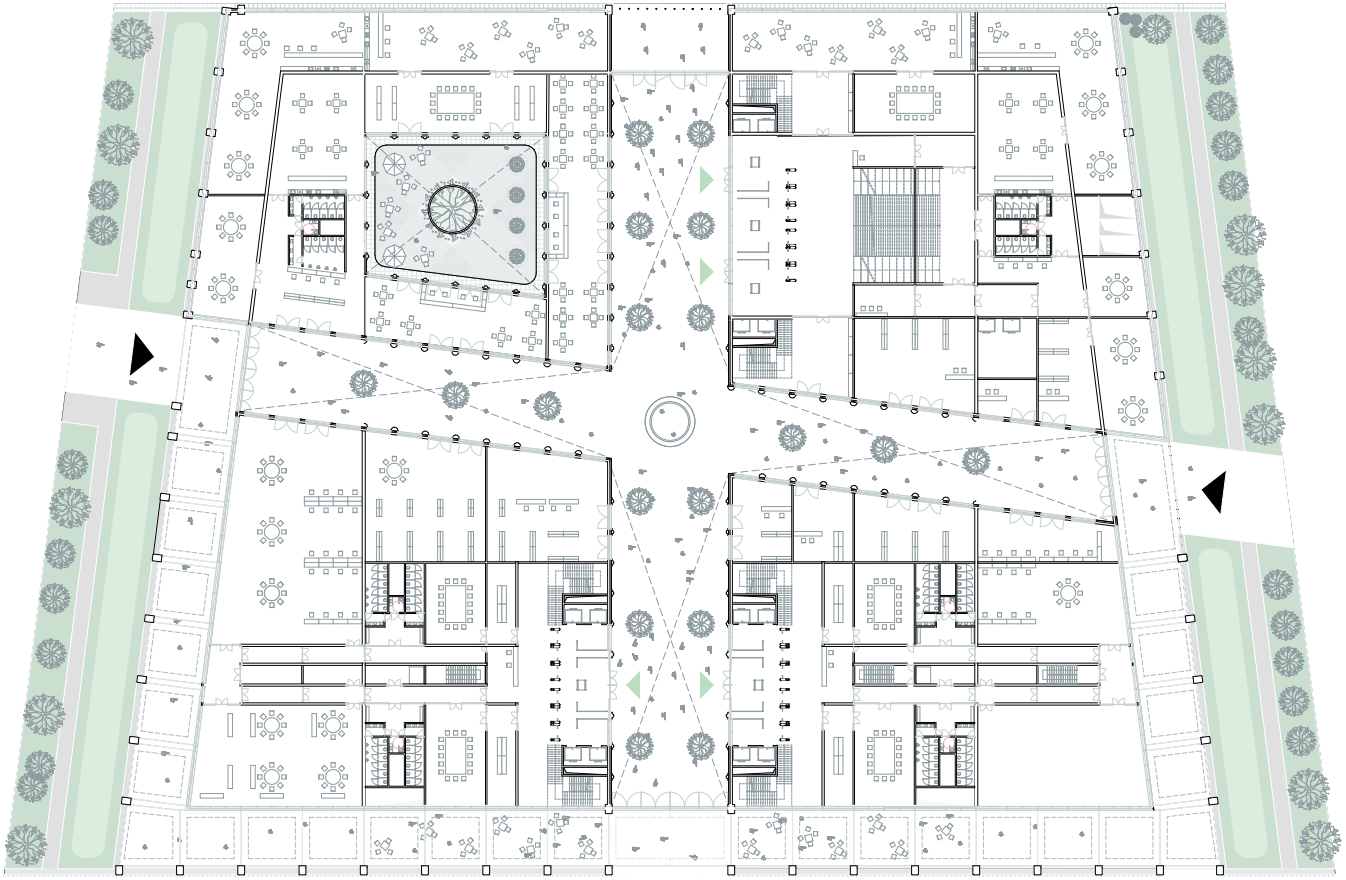
GROUND FLOOR



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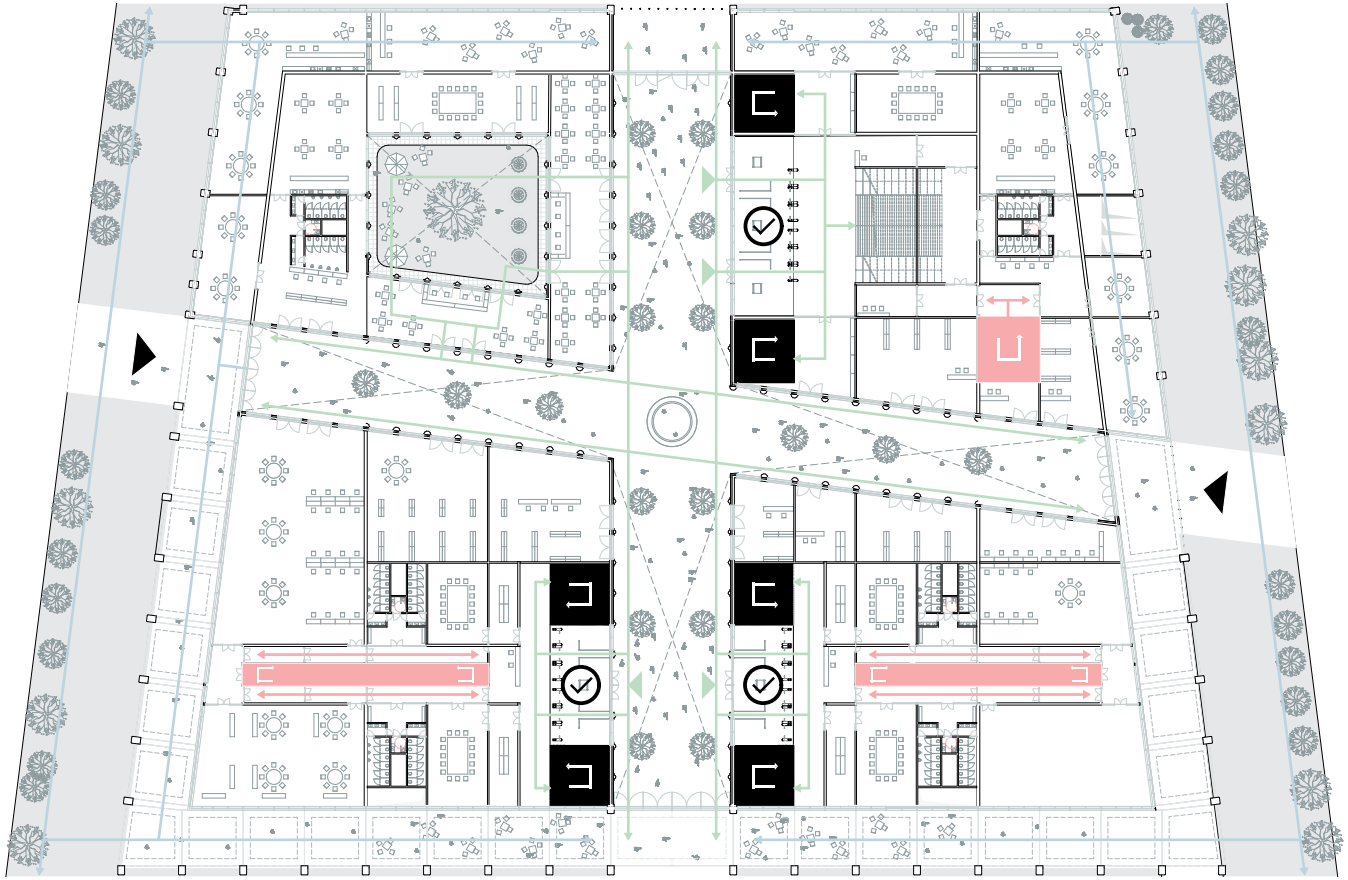
FLOW
GROUND FLOOR



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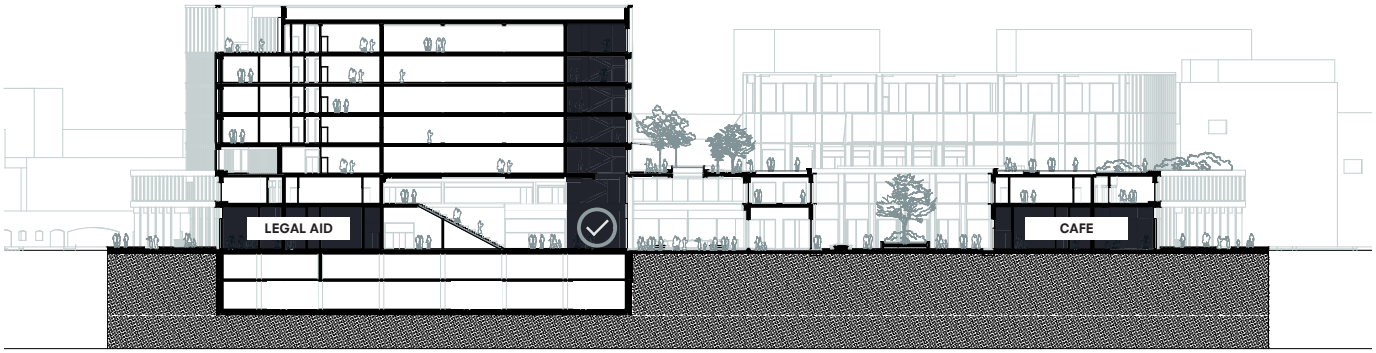
ZONE I
SECTION B-B



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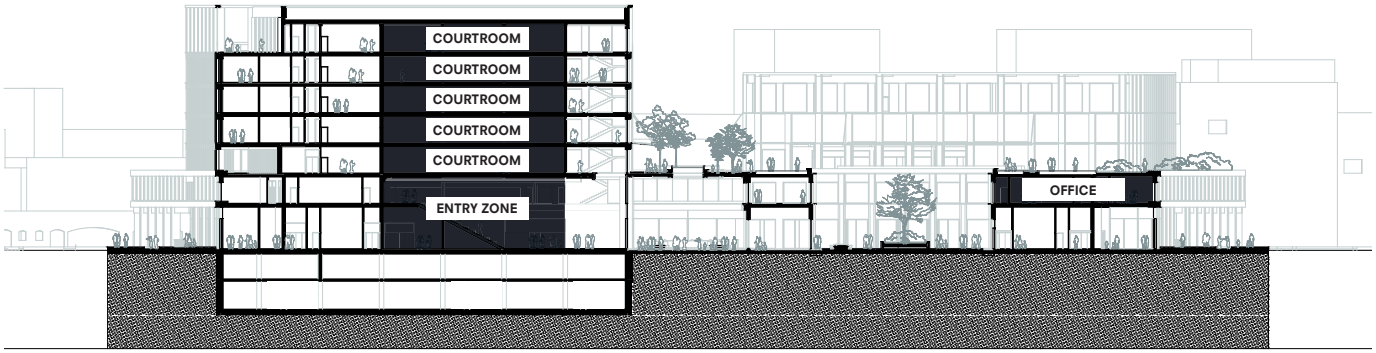
ZONE II
SECTION B-B



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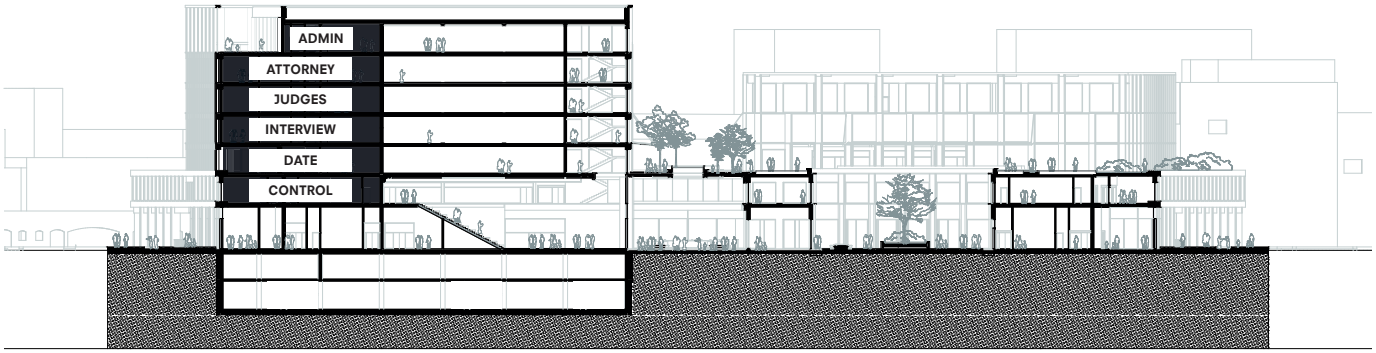
SECTION B-B



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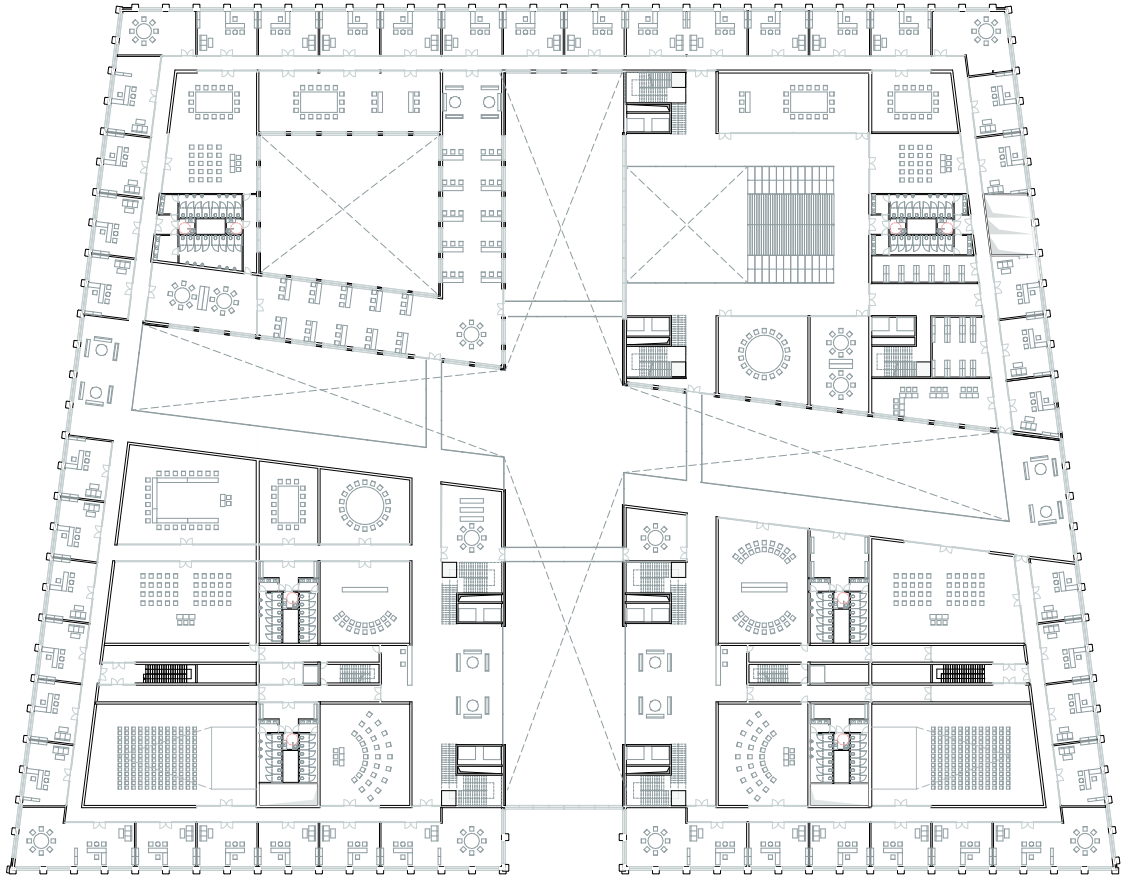
ZONE I
1ST FLOOR



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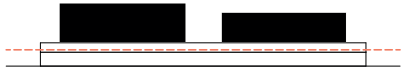

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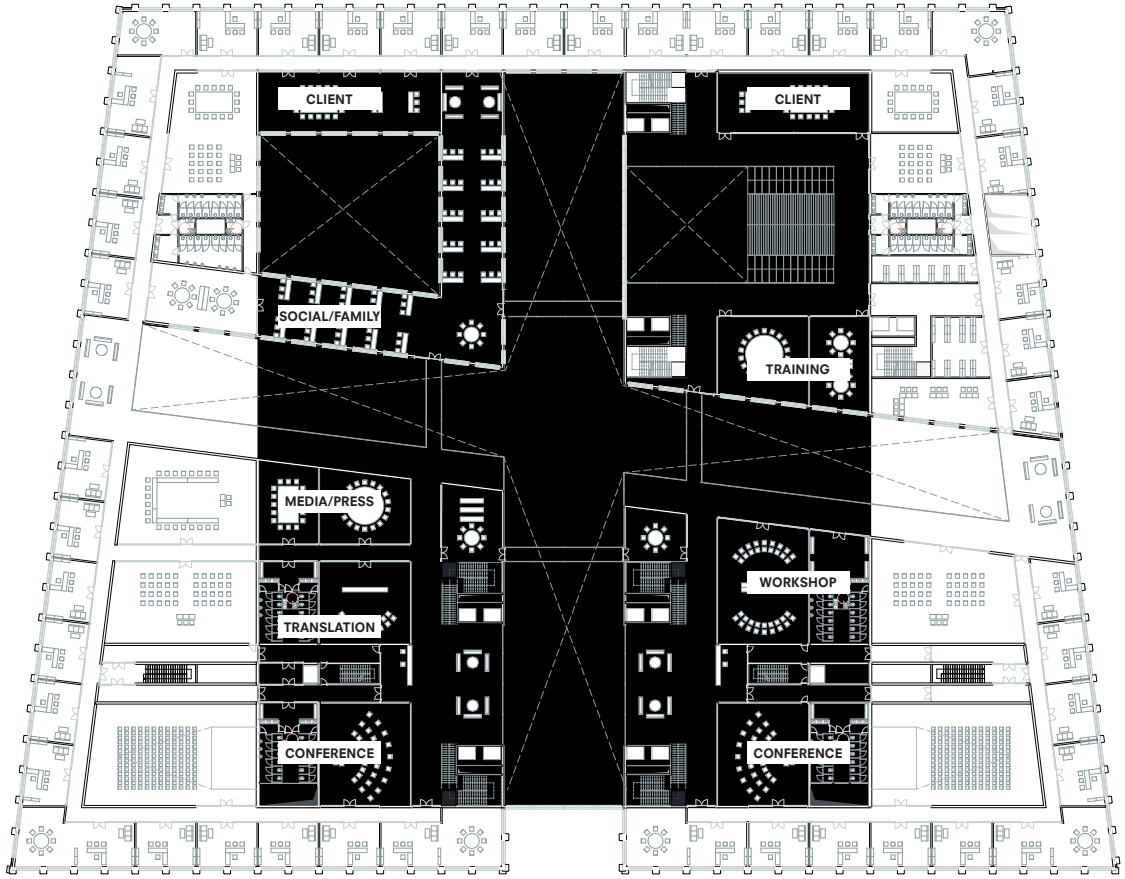

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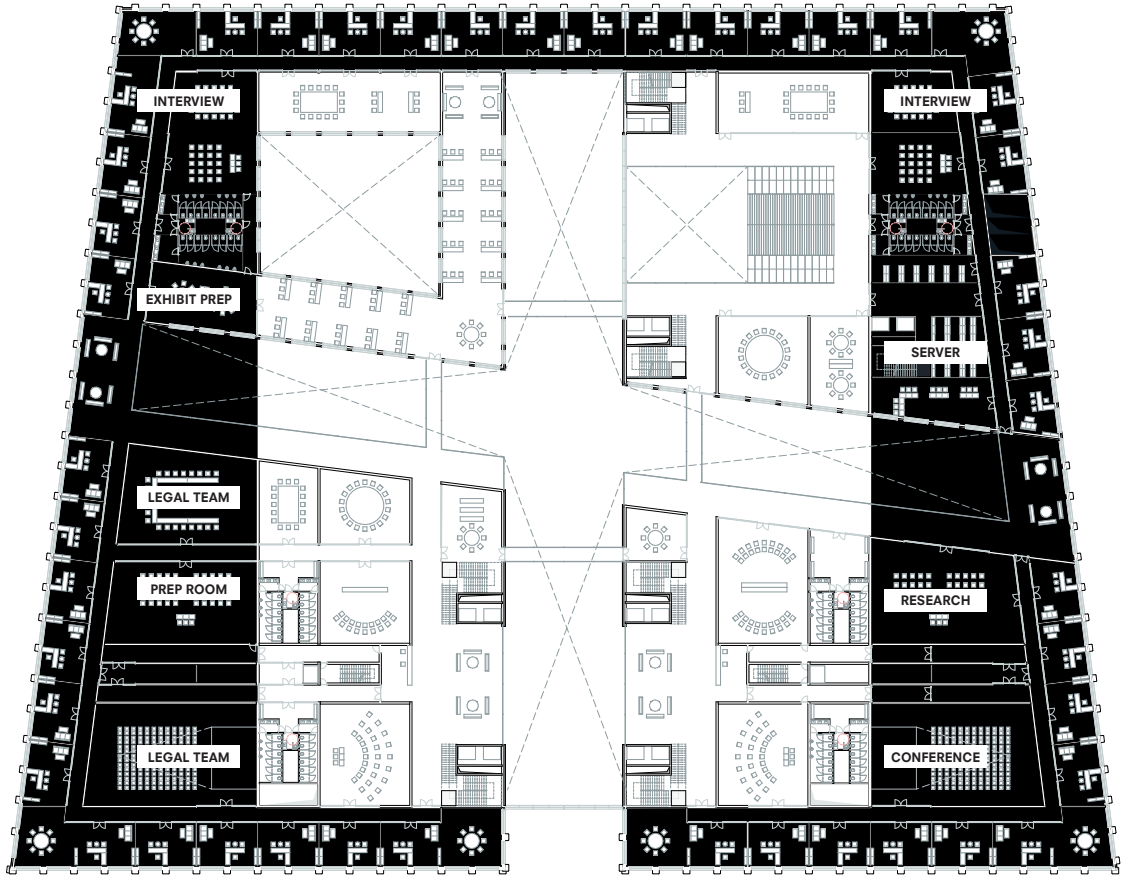
ZONE III
1ST FLOOR



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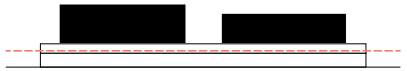
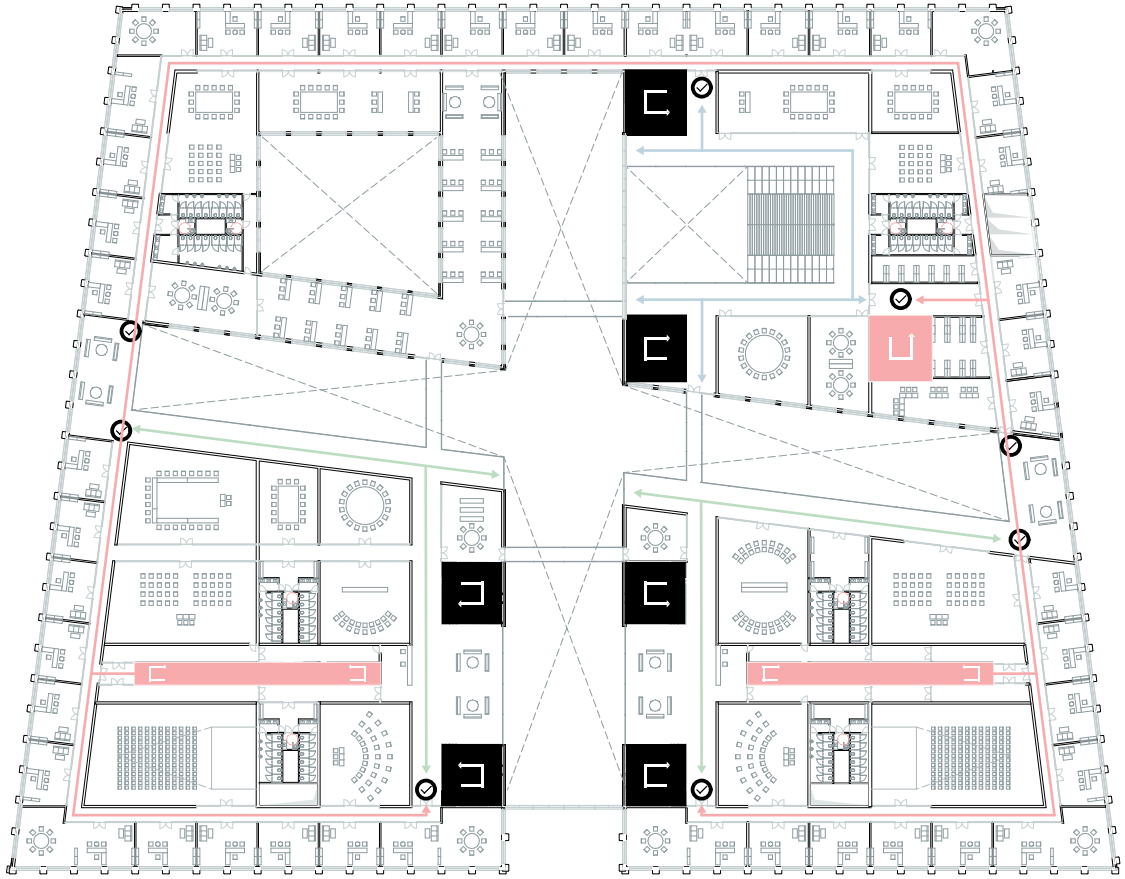
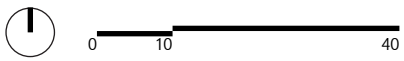
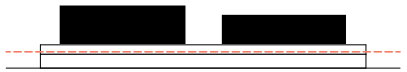


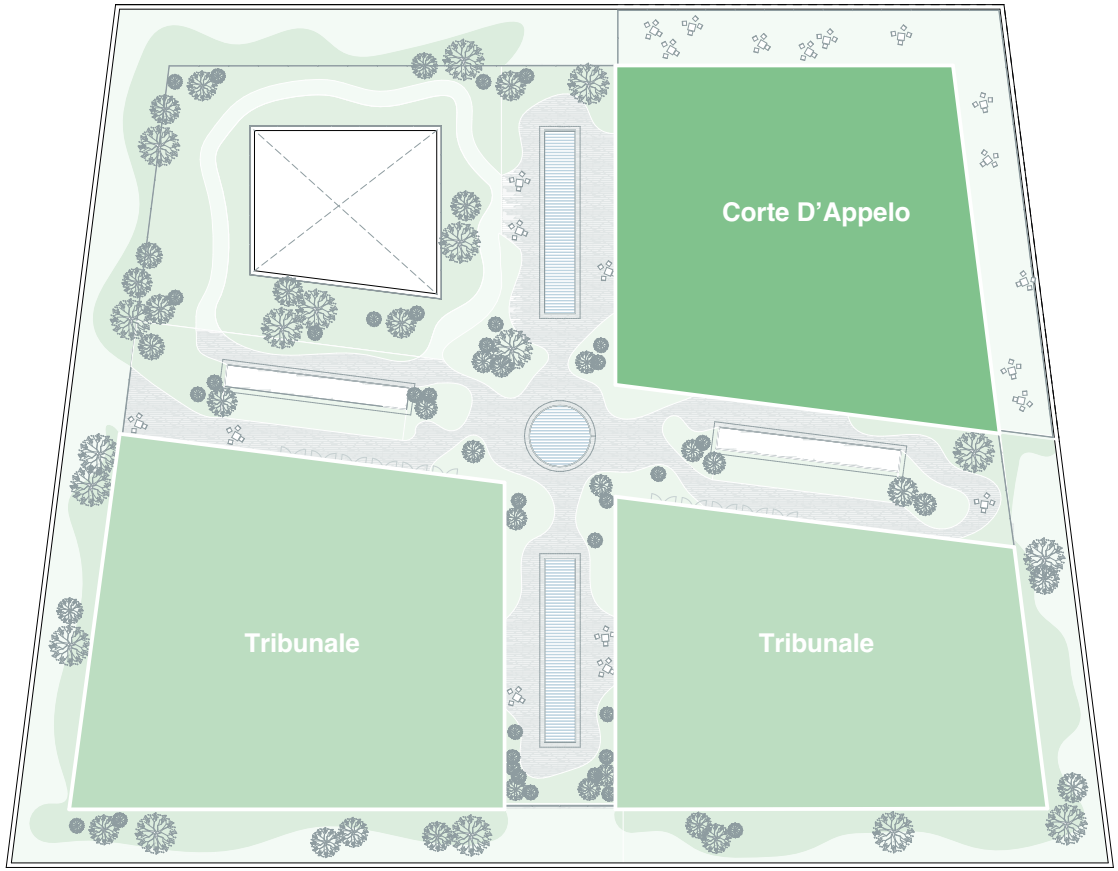
FLOW
1ST FLOOR







PROGRAM
2ND FLOOR



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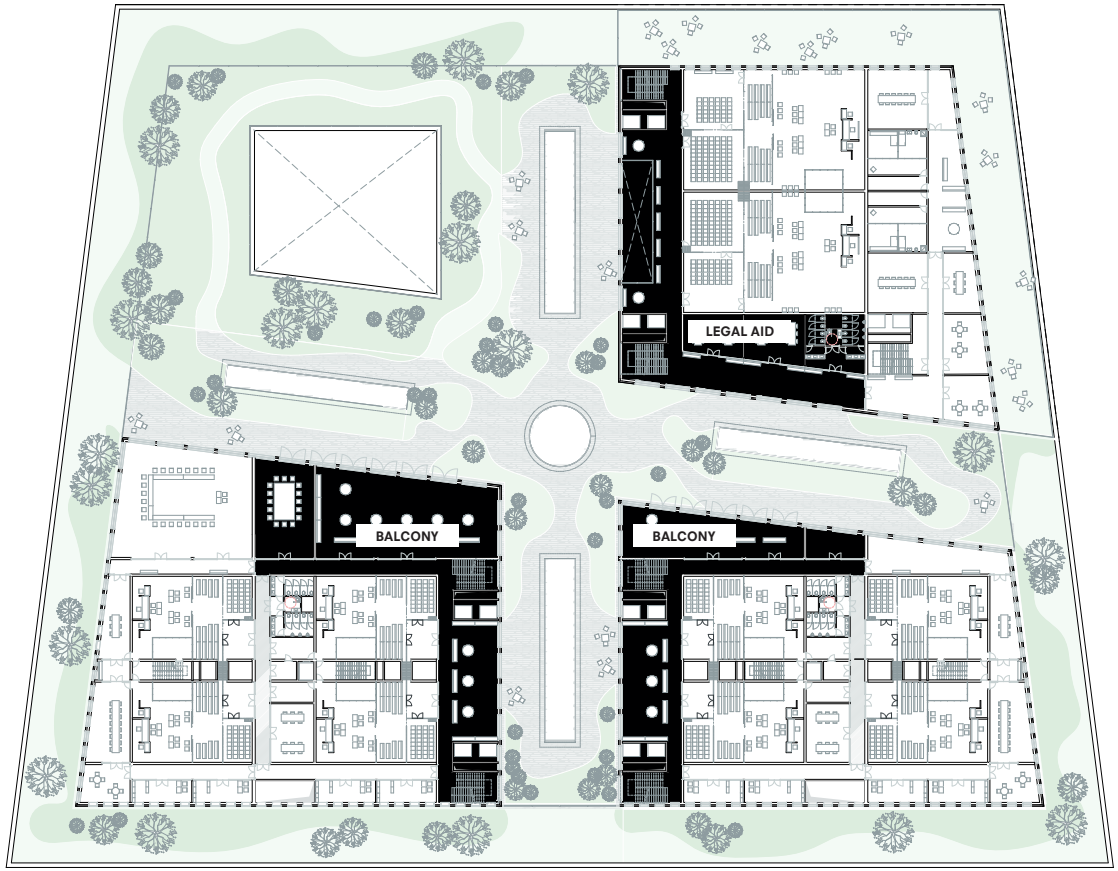
ZONE I
2ND FLOOR



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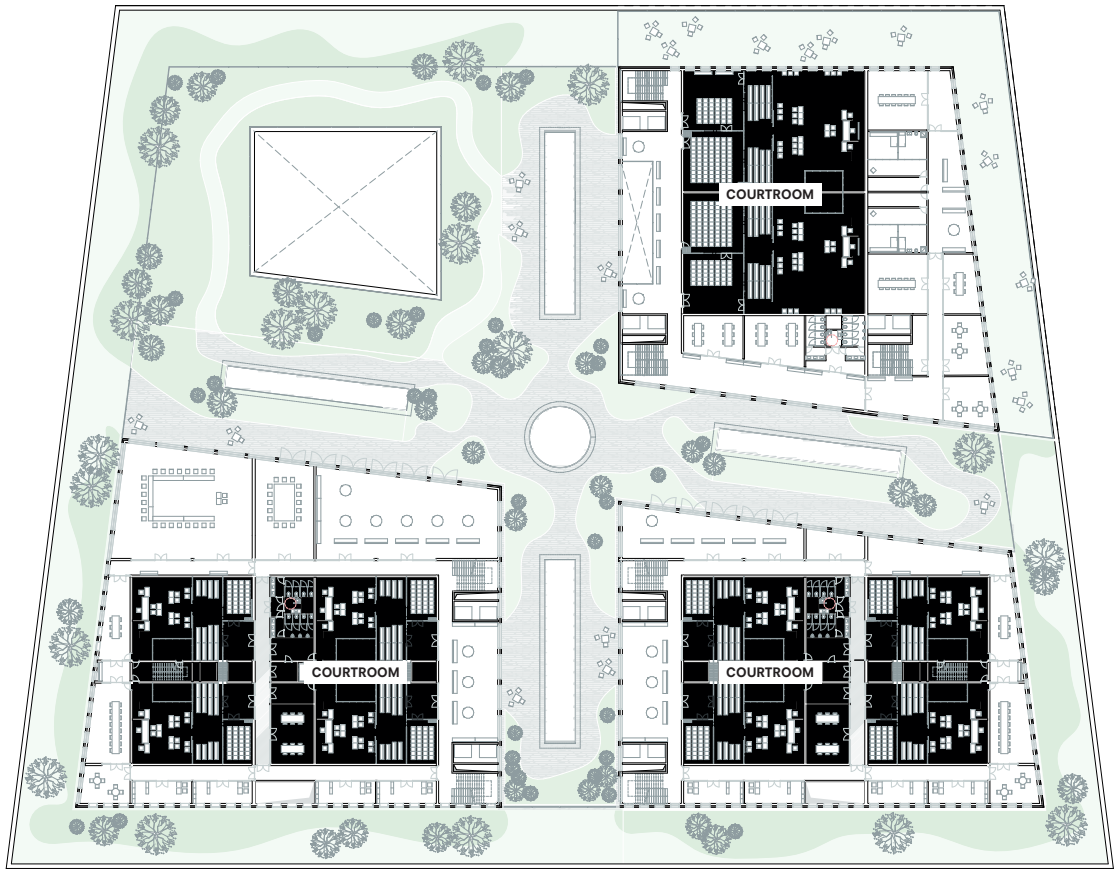
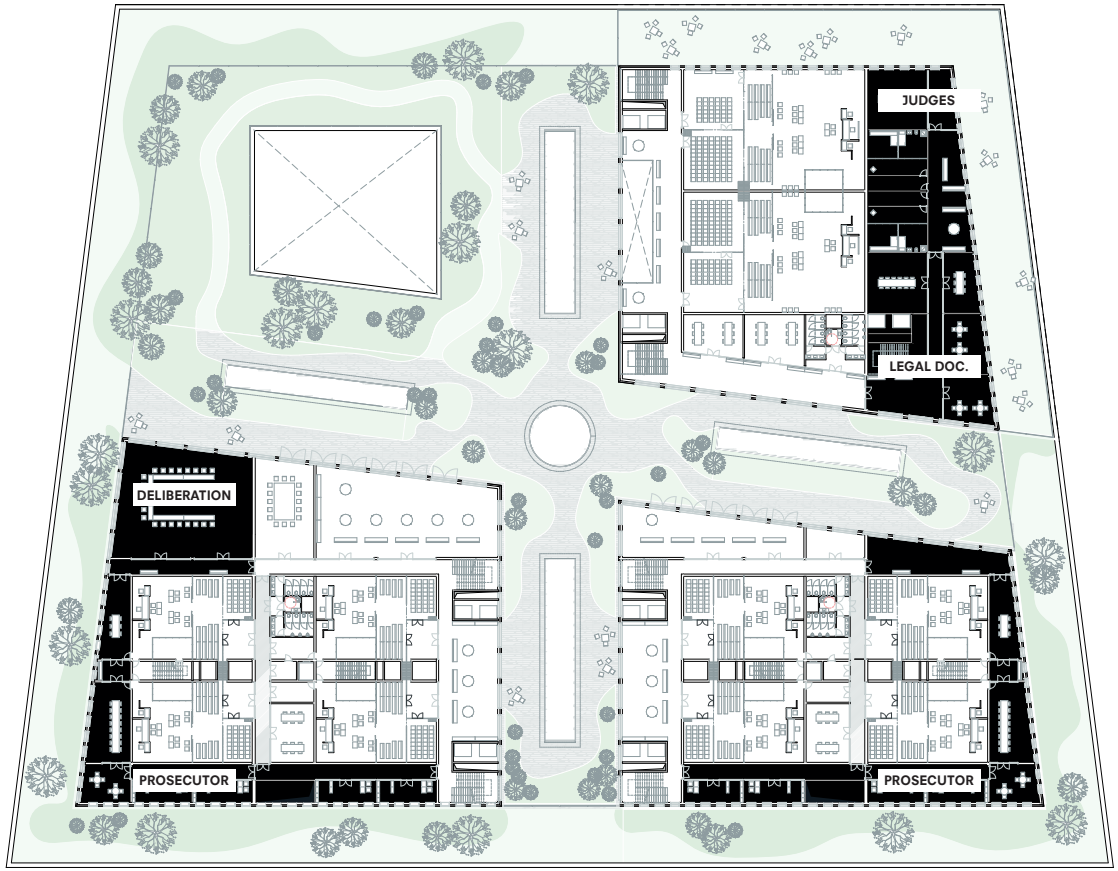
ZONE II
2ND FLOOR



0 10 40



ZONE III
2ND FLOOR



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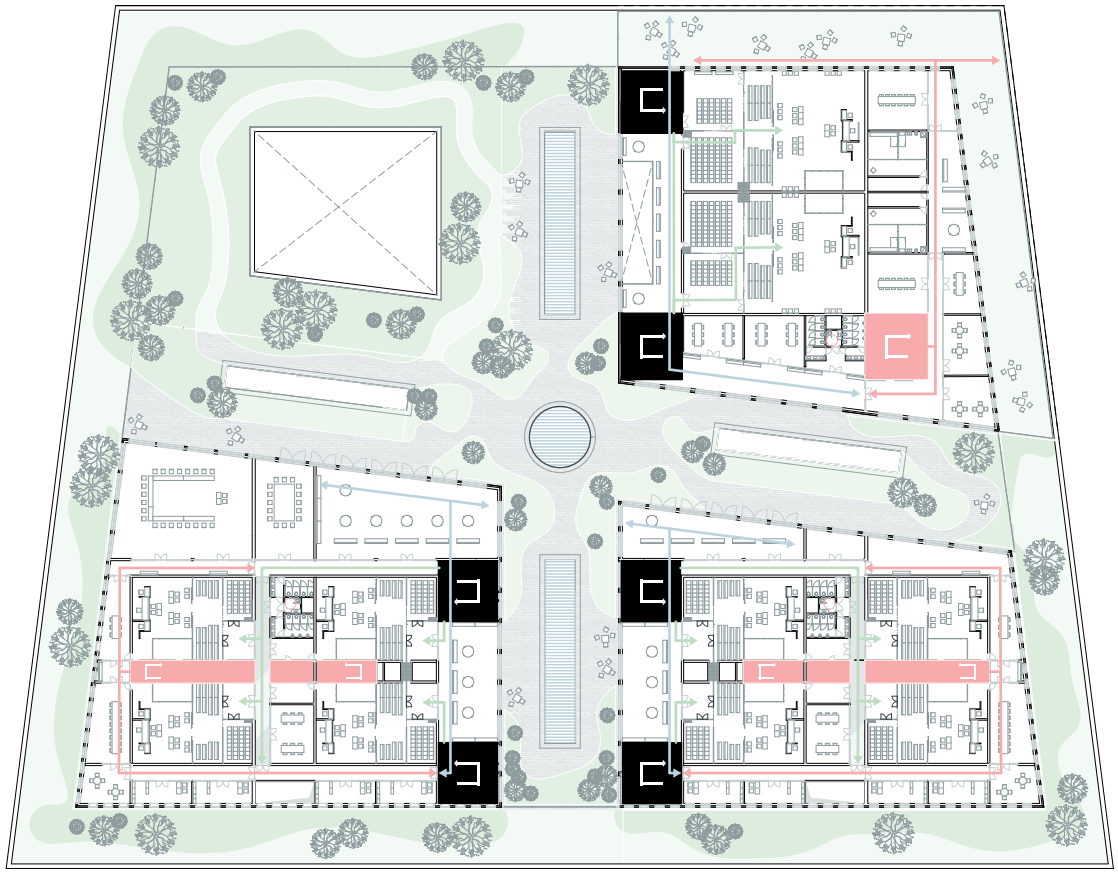
FLOW
2ND FLOOR



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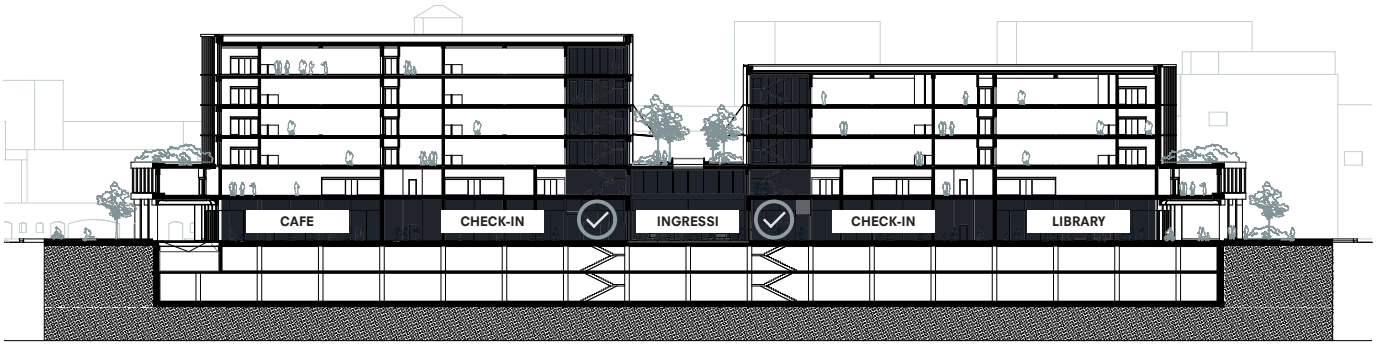
ZONE I
SECTION A-A



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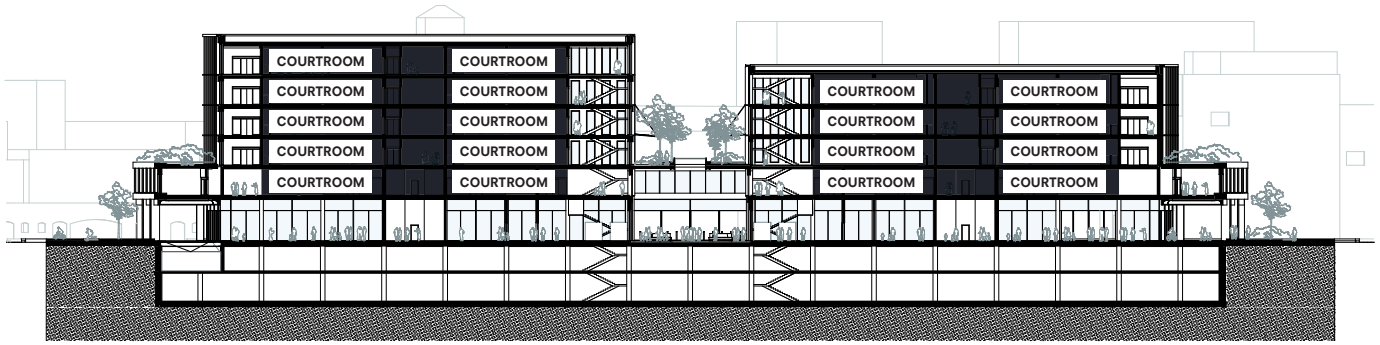
SECTION A-A



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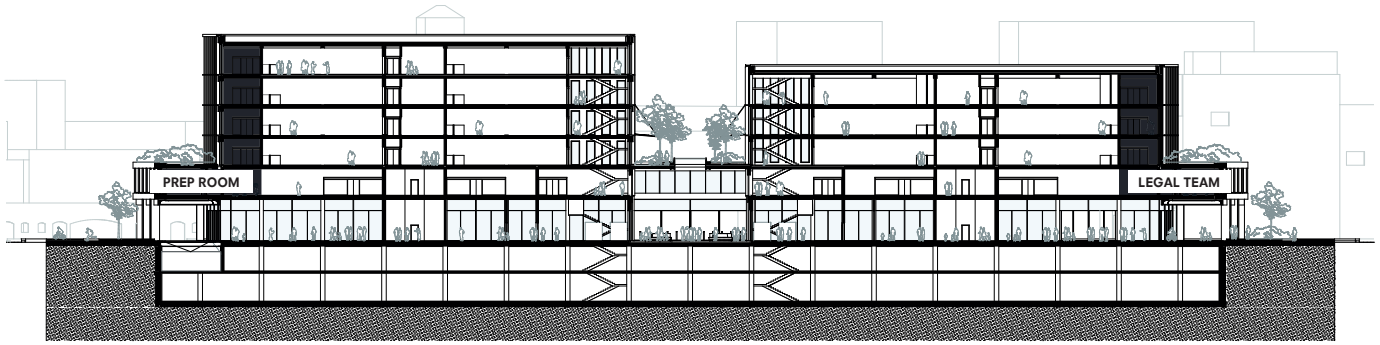
SECTION A-A



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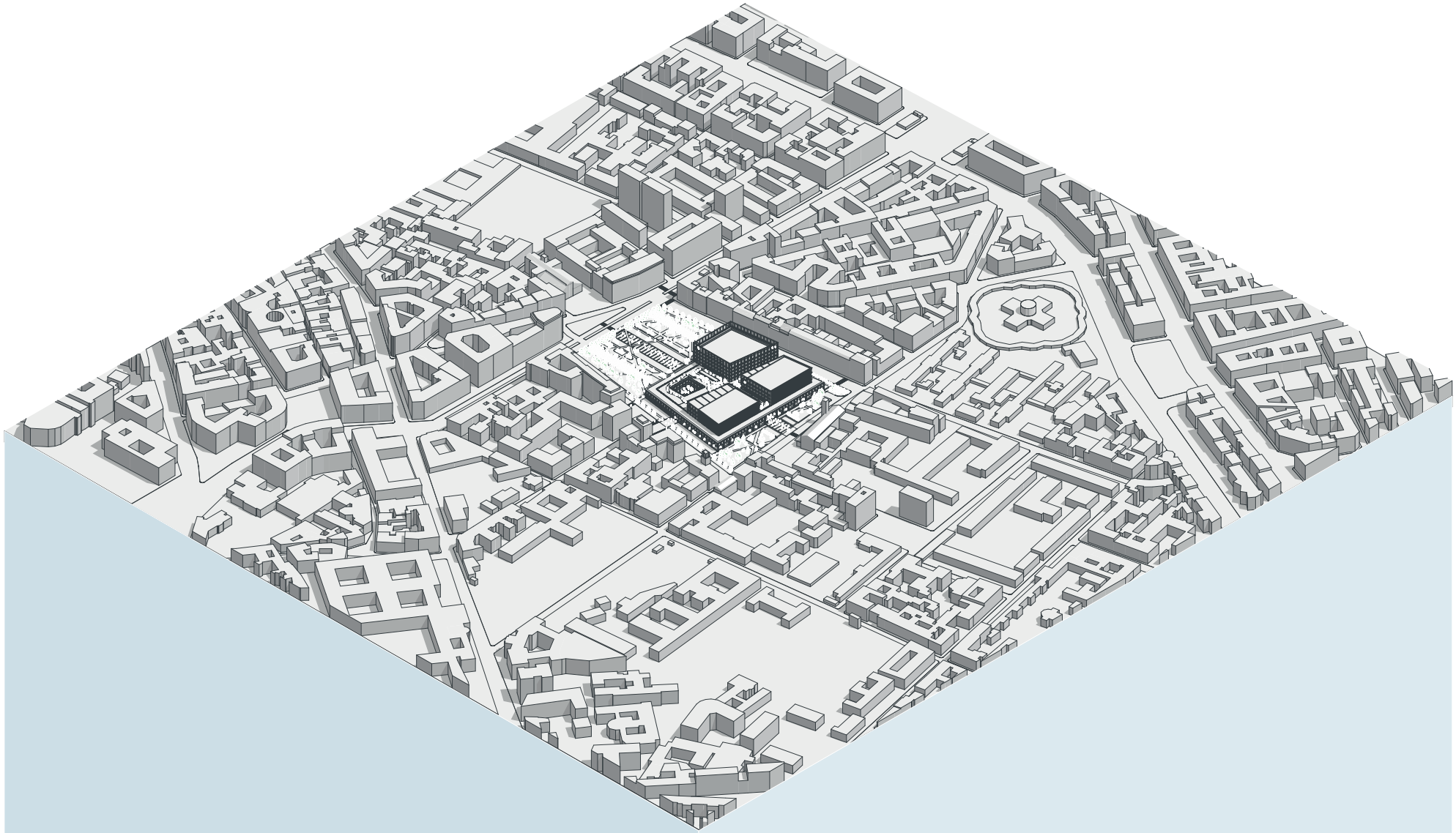
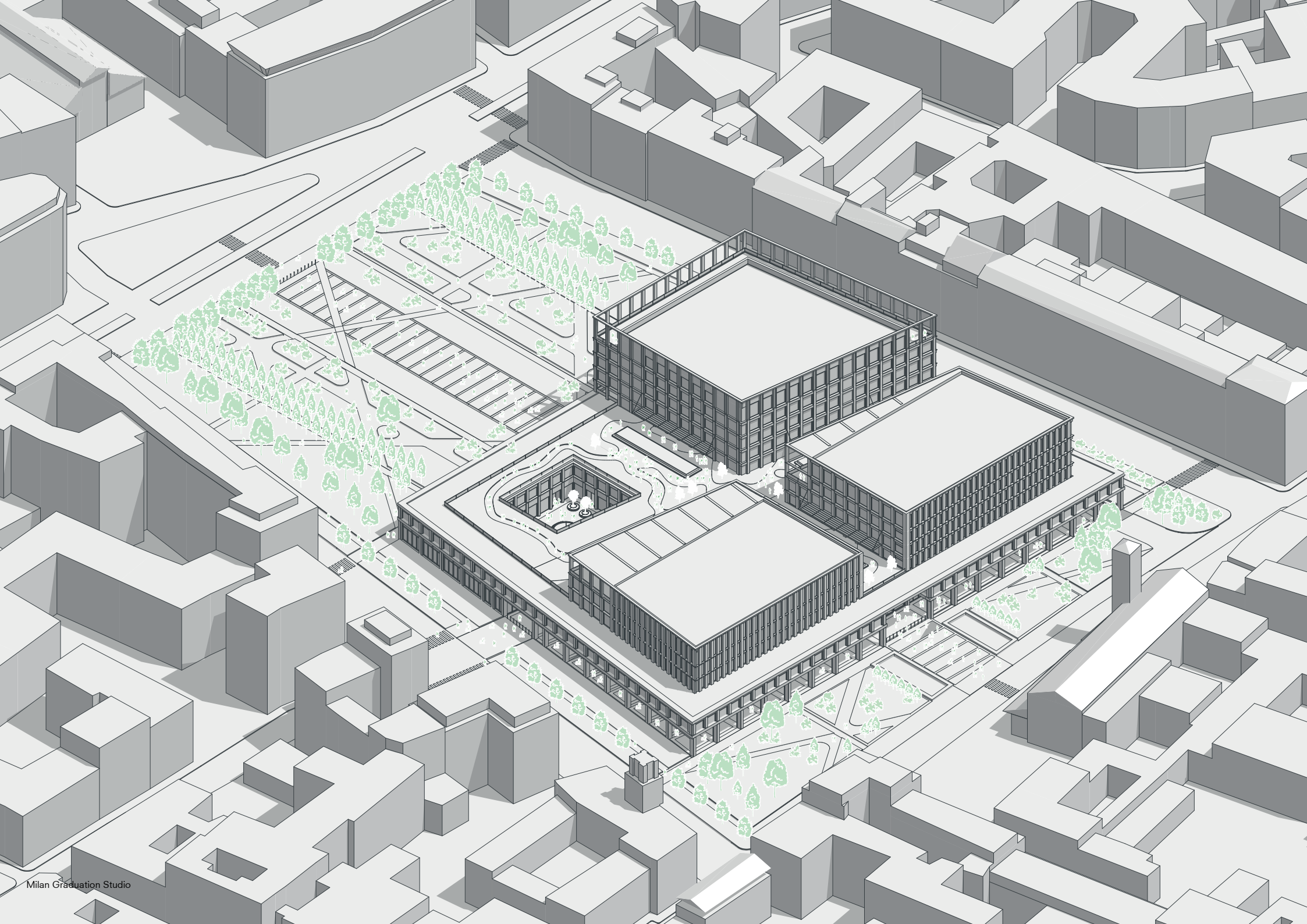
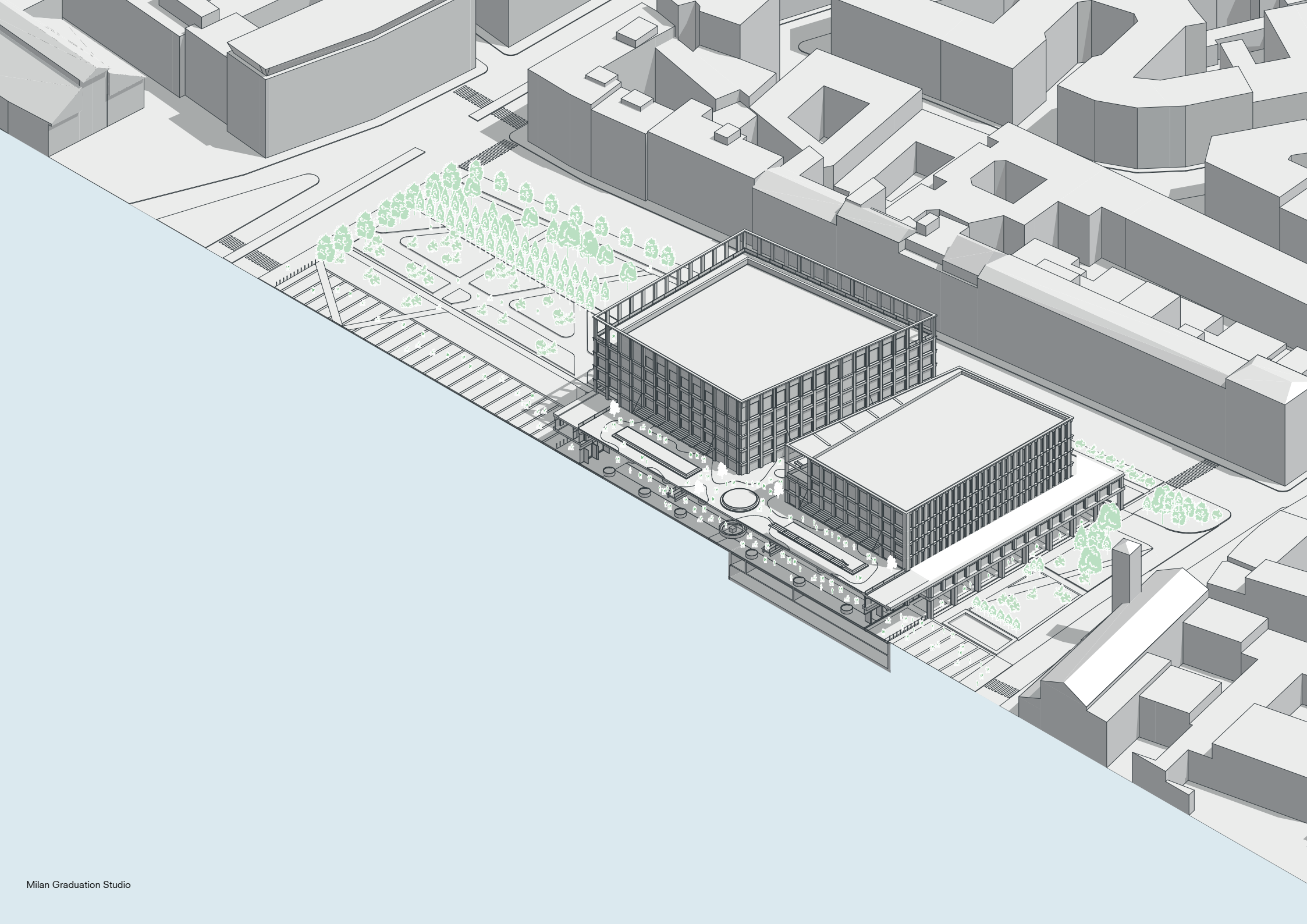
KEY FRAGMENT
BALANCING TRUST

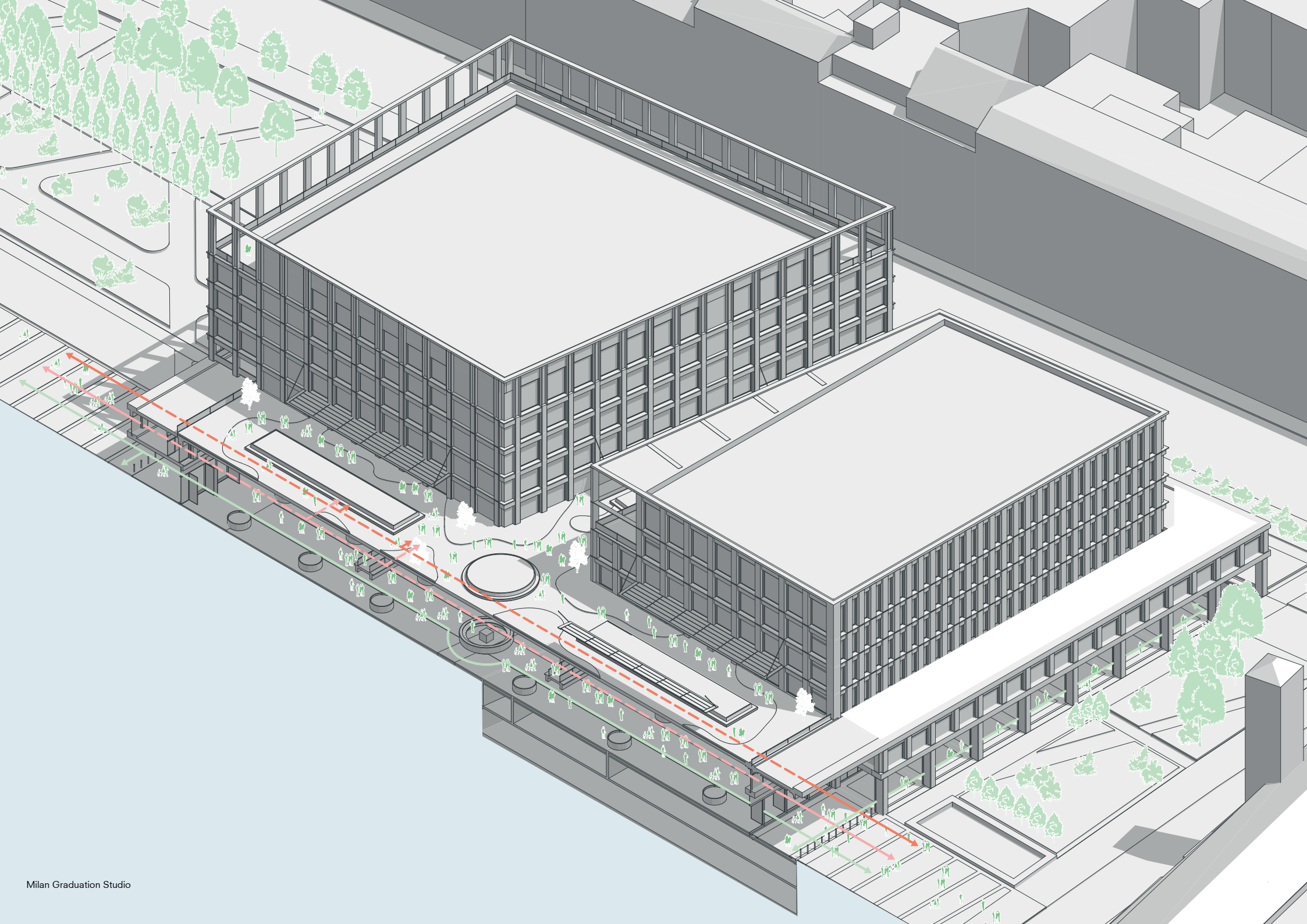
INGRESSI
KEY FRAGMENT





Milan Graduation Studio





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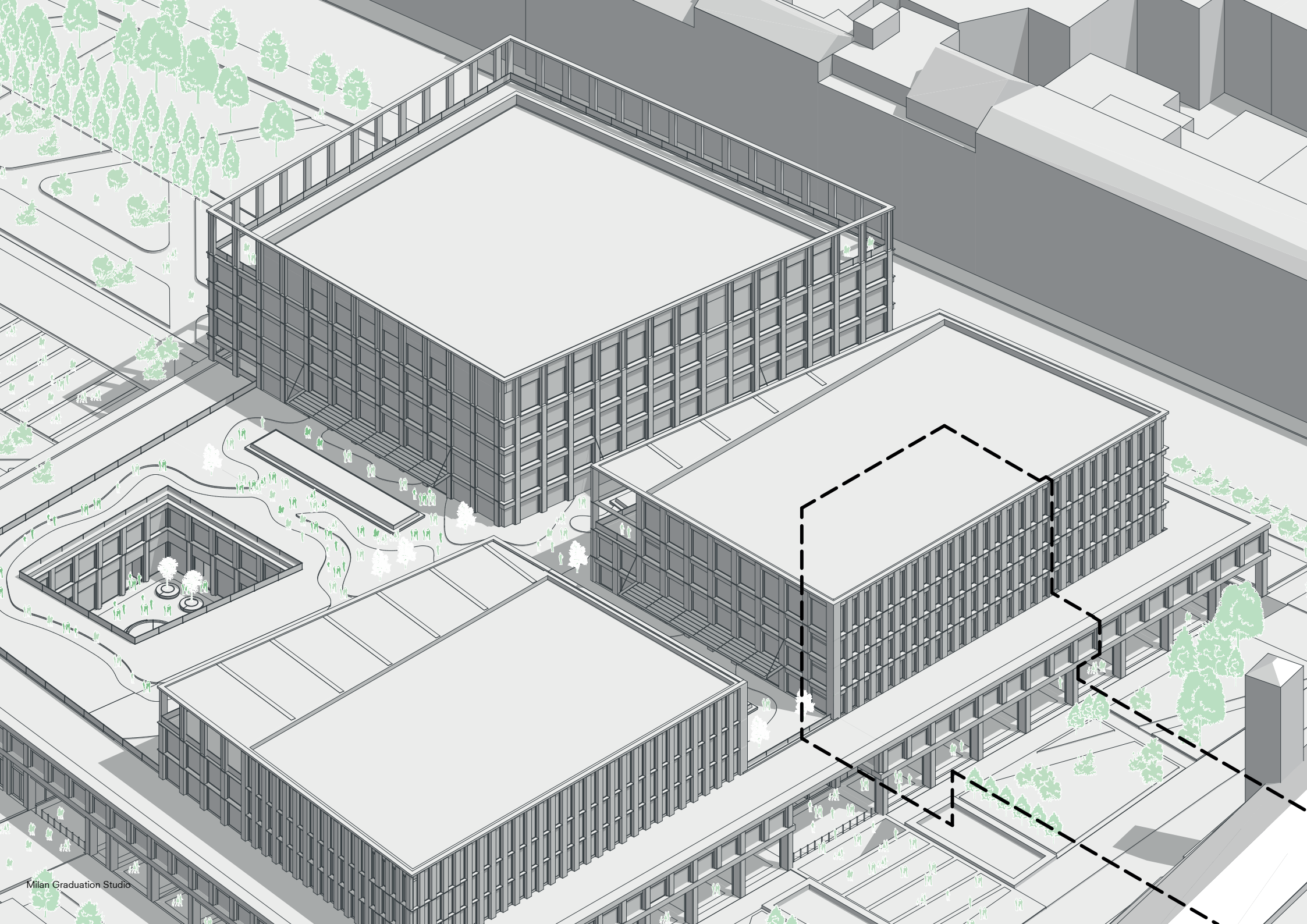
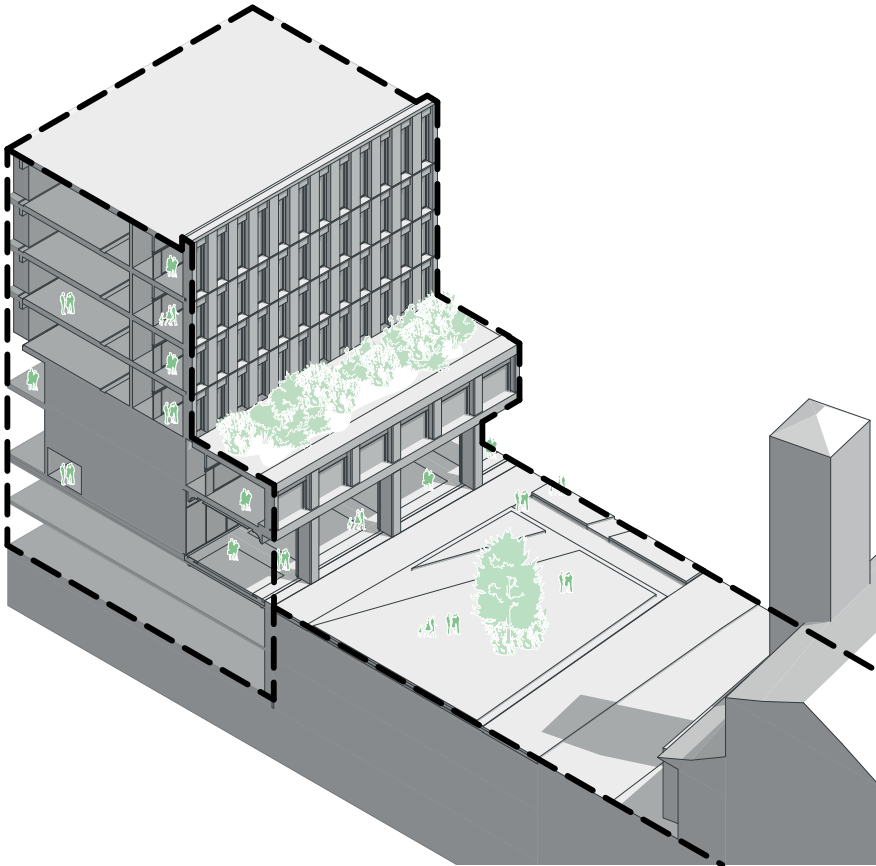
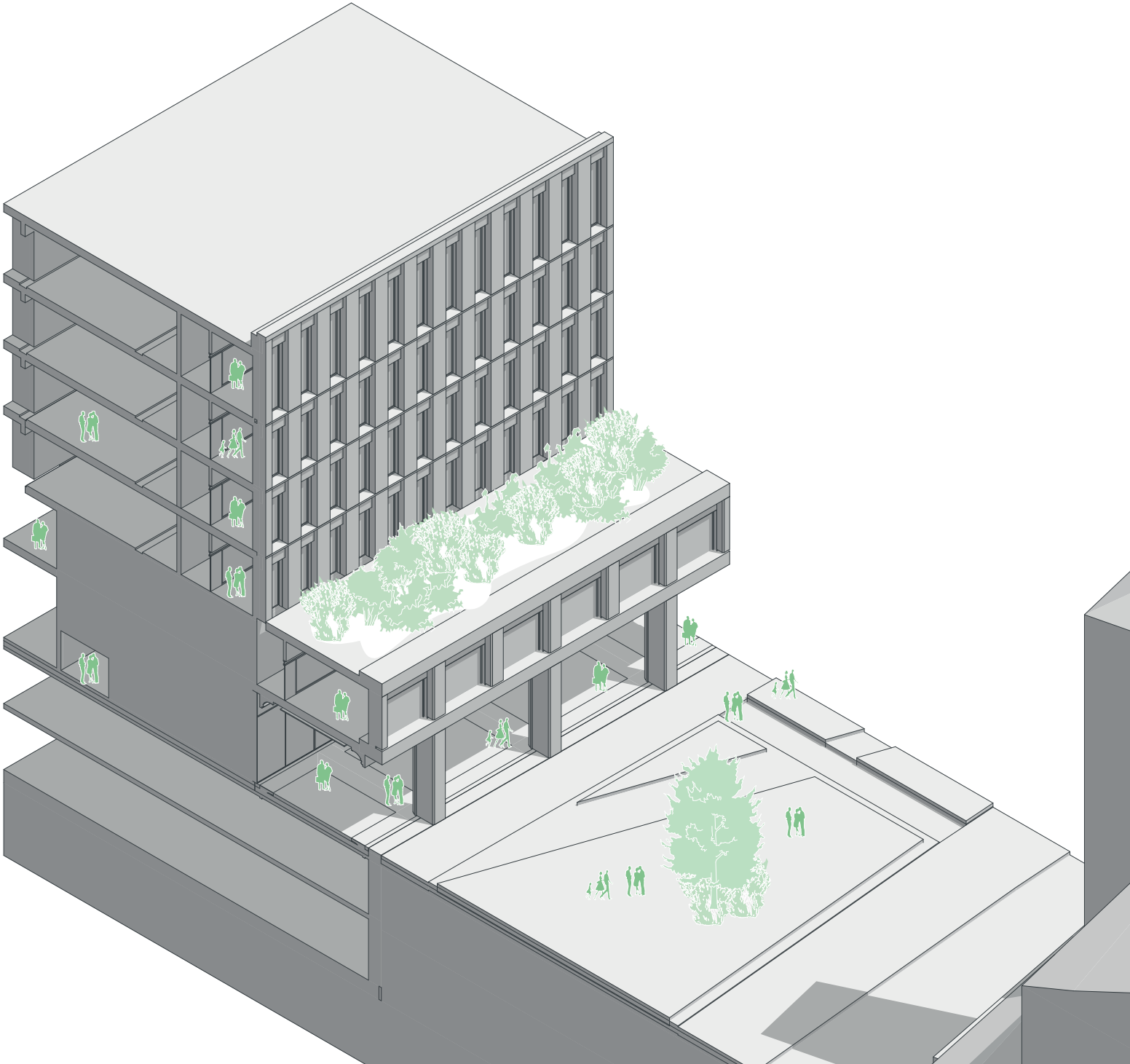


Milan Graduation Studio

MATERIAL
KEY FRAGMENT



MATERIAL
KEY FRAGMENT



MATERIAL
KEY FRAGMENT



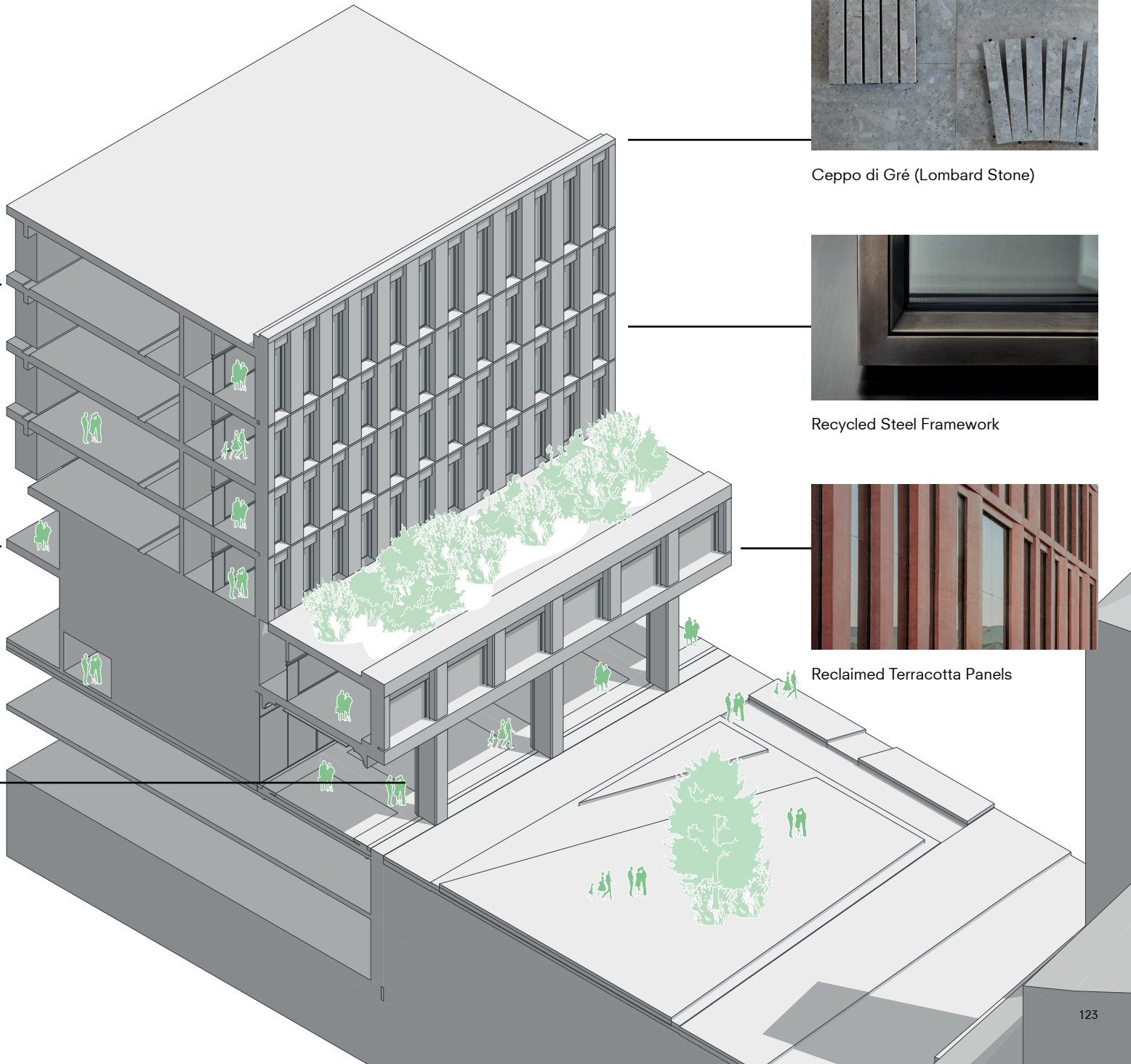
Spruce CLT
(Visual Grade, PEFC-certified)



Pumice-Infused Lightweight Concrete



Rosa Perlino Marble`



Ceppo di Gré (Lombard Stone)

Recycled Steel Framework

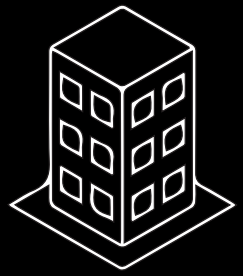
Reclaimed Terracotta Panels

MATERIAL
BALANCING TRUST

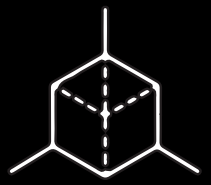
MATERIAL LENS
BALANCNG TRUST



URBAN SCALE

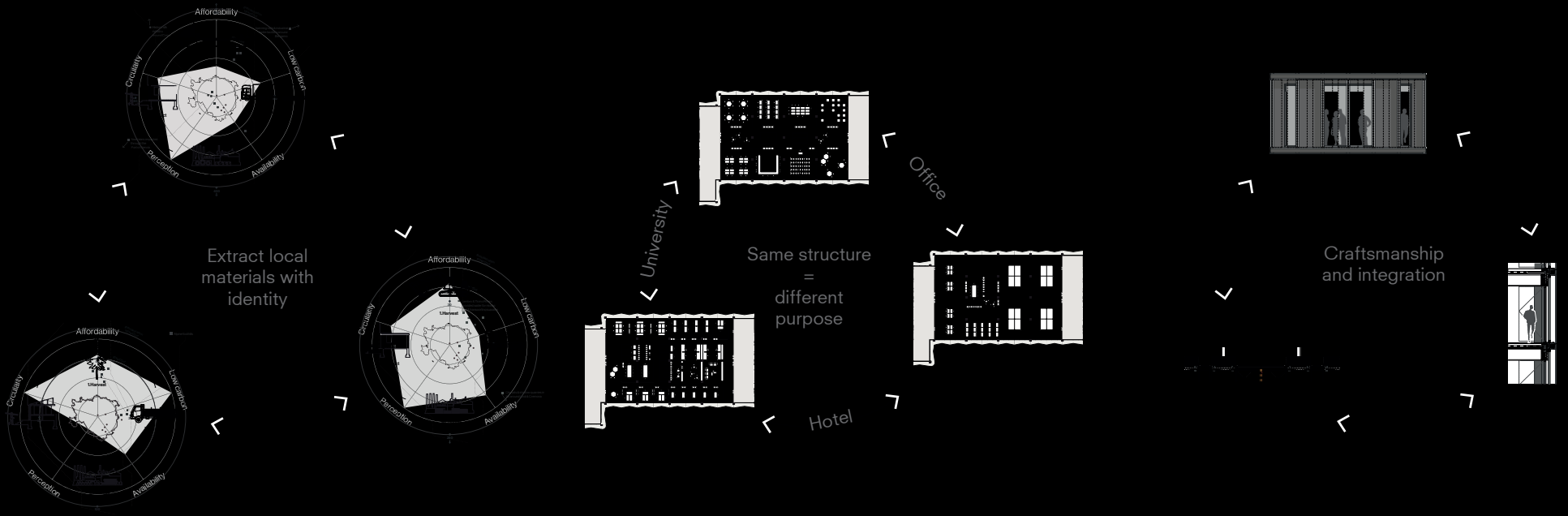


BUILDING SCALE

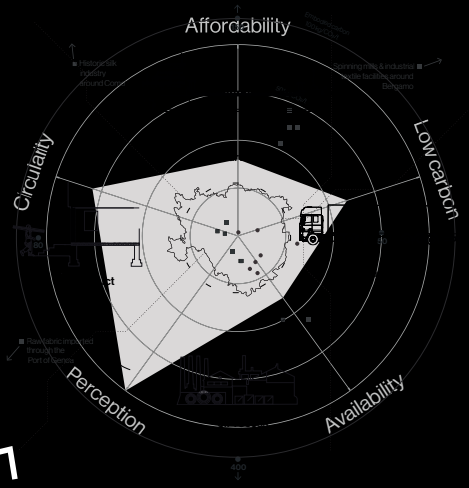


DETAIL SCALE

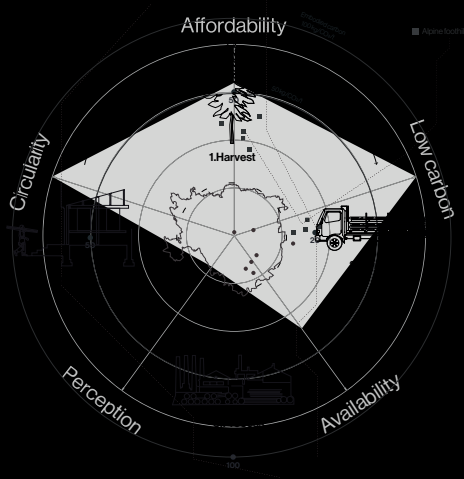
MATERIAL LENS
BALANCNG TRUST

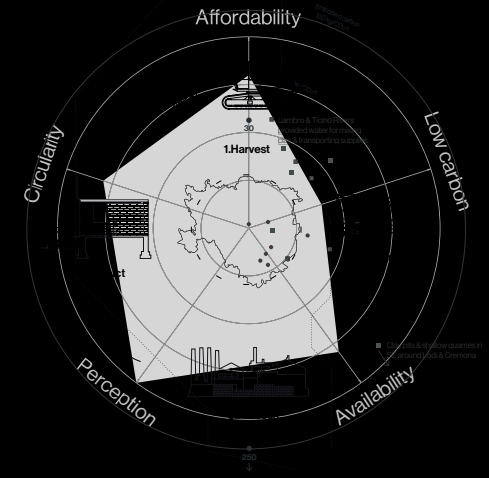


URBAN
MATERIAL LENS

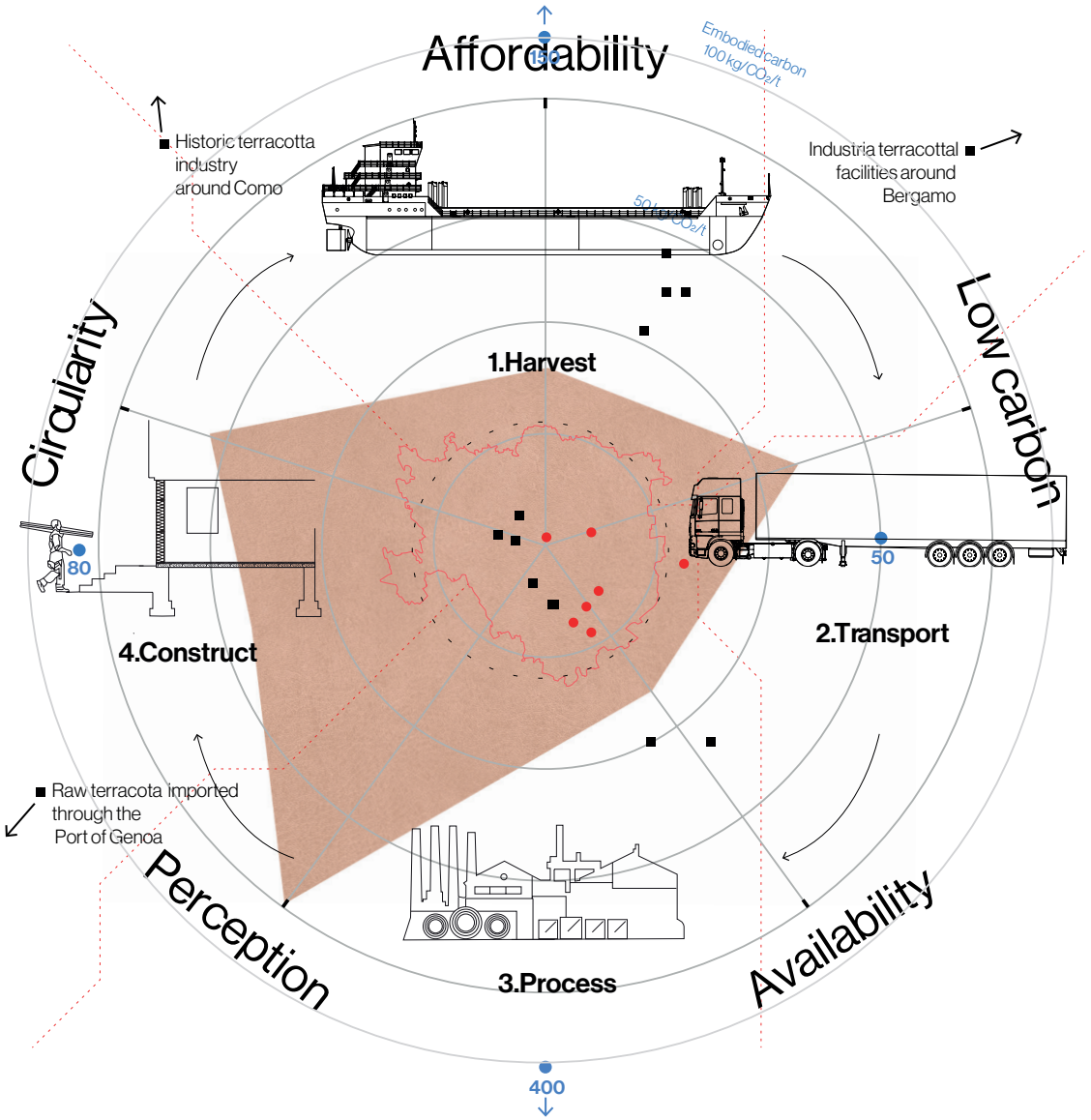


Extract local materials with identity





TERRA-COTTA
URBAN MINING



TERRA-COTTA
URBAN MINING



Old Milanese rooftiles
(typically coppi or tegole marsigliesi)

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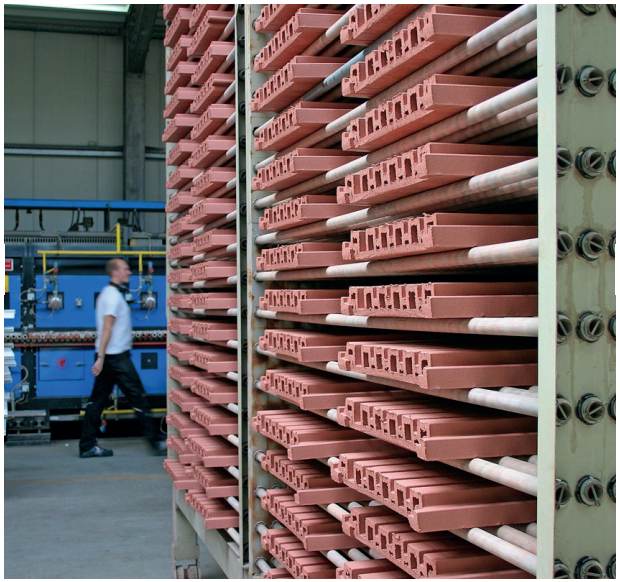


Fornace
Bernasconi

=



THE TERRACOTTA-COLOURED
FIBRE CEMENT FAÇADE

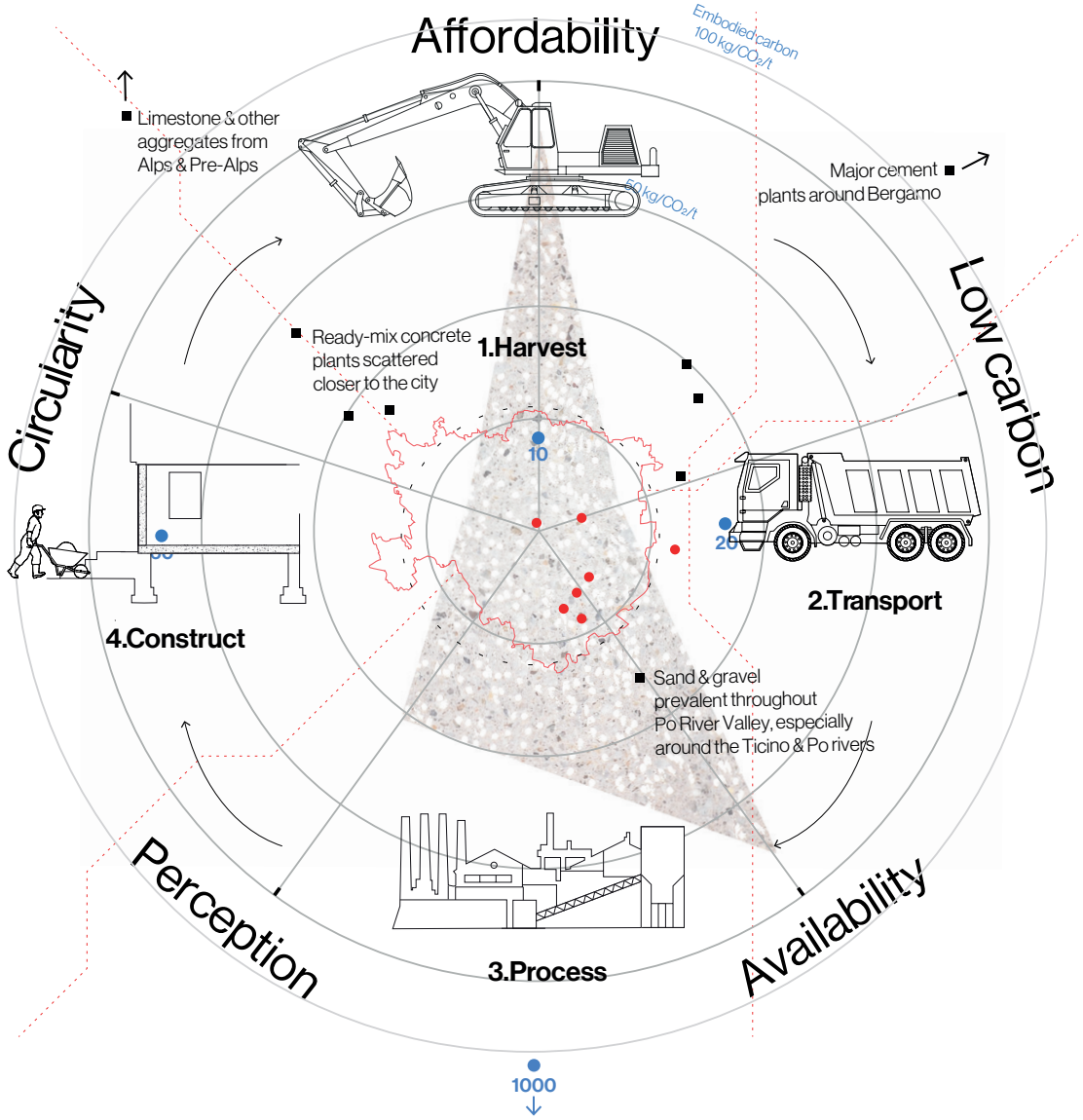
https://parkassociati.com/en/projects/sarca-336



LITRACON
A TRUST MATERIAL



LITRACON
A TRUST MATERIAL



LITRACON
A TRUST MATERIAL



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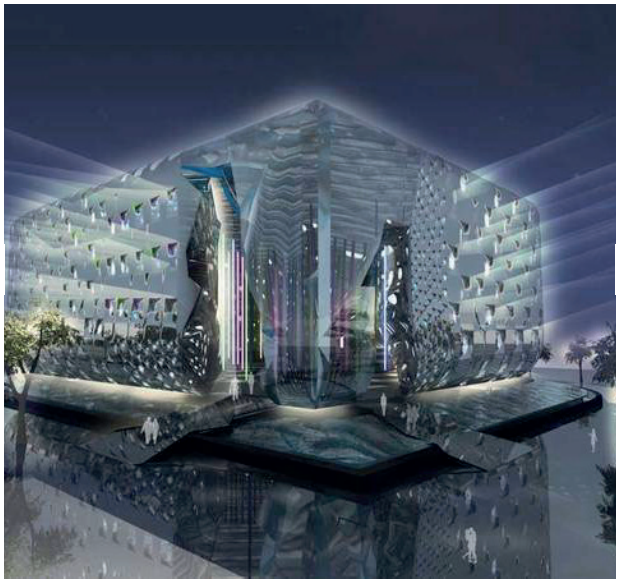

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Italcementi Bergamo

Italian pavilion at Expo 2010

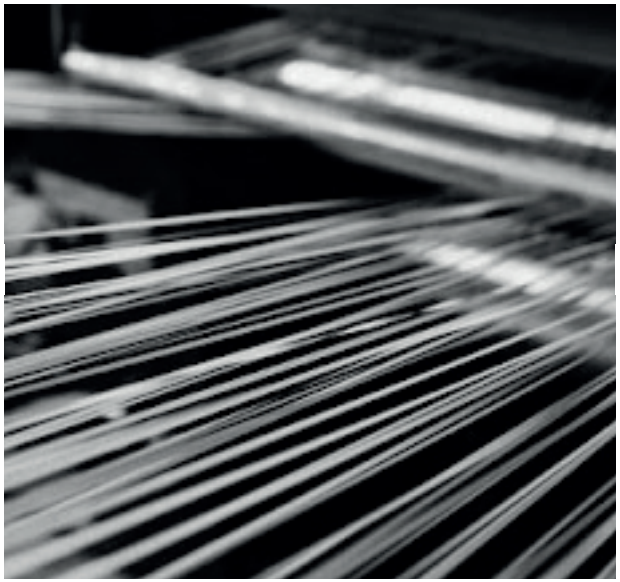
LI-ght TRA-nsmitting CON-crete

LITRACON
A TRUST MATERIAL



Fine Concrete

+



Optial Fibres

=

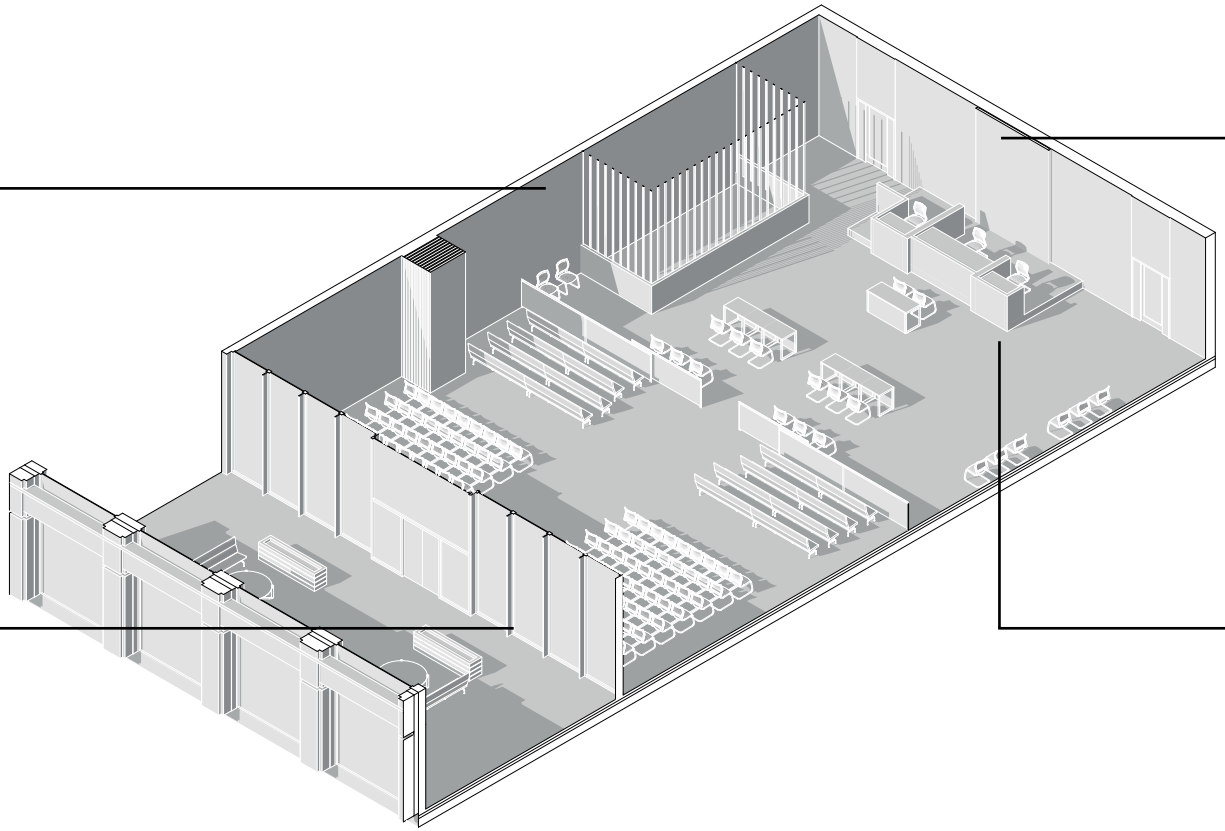


LI-ght TRA-nsmitting CON-crete

TRUST
COURTROOM

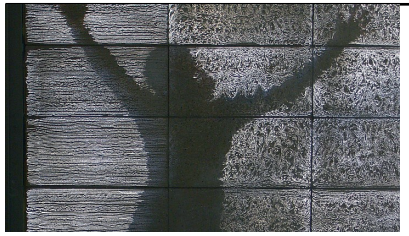


Bright Stucco Finish
– Surface of Clarity and Trust





Candoglia or Ceppo di Gré
– Stone of Civic Identity



Litracon Light Concrete
– Translucent Stone from Bergamo



Pale Lombard Timber
– Warmth & Accessibility

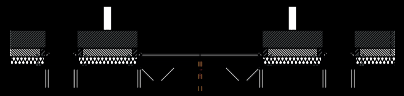

COURTROOM



DETAIL
MATERIAL LENS



Craftsmanship
and integration

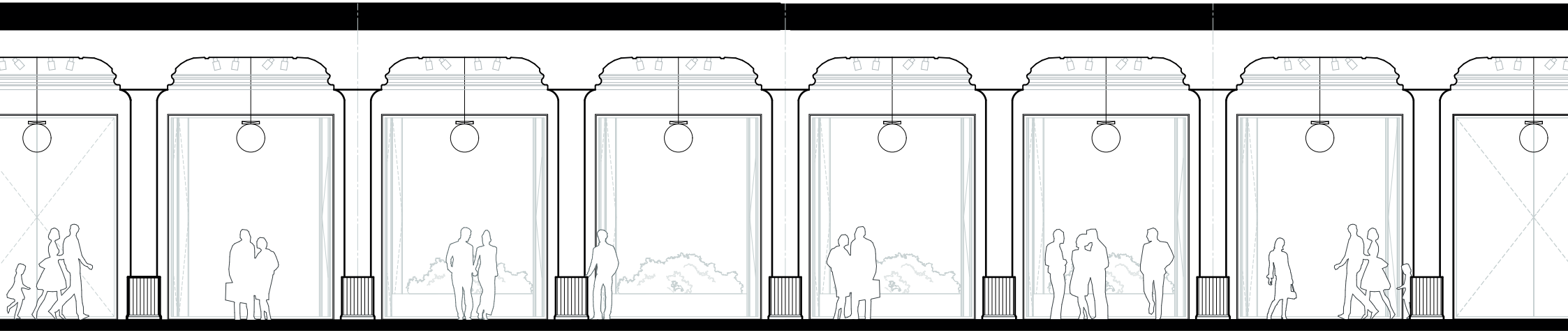






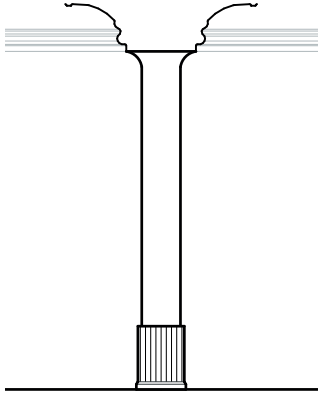
Columns as characteristic of Milan

DETAIL
MATERIAL LENS

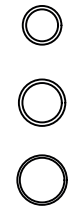


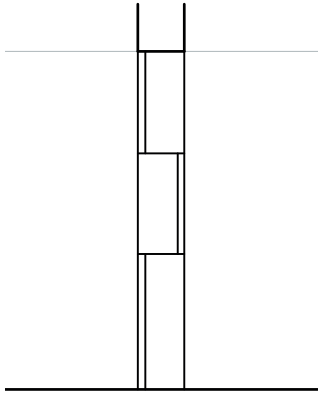
Section showing typical display
arrangment at the Ground Floor

DETAIL
MATERIAL LENS



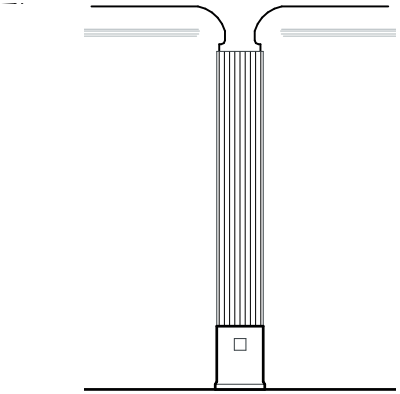
The reinstaled plaster columuns have an Iconic four-sided capital which crowns a fluted shaft. The base is composed of white cement and macael marble





The square, Arabescato marble-clad column in the entrance area echoes the exisitng columns in the Columnas di San Lorenzo entrance hall

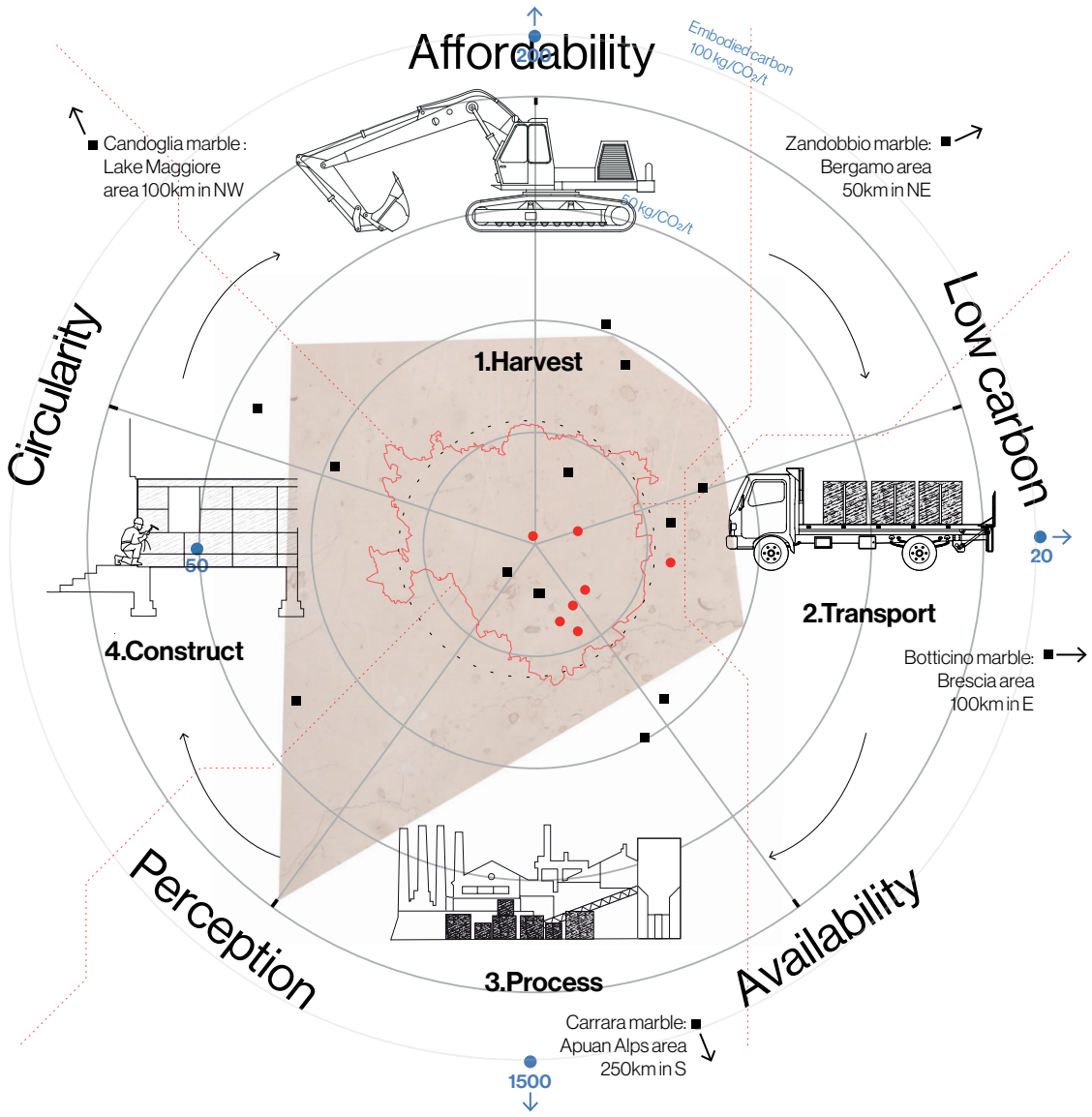




The columns in the southern part of the buidling give a modern character to the original 1940 design. The column, made from fibrous plaster has no capital and is fluted



MARBLE
MILAN HERITAGE



MARBLE
MILAN HERITAGE



Rosa Perlino

+



Ziche Marmi (90km from Milan)

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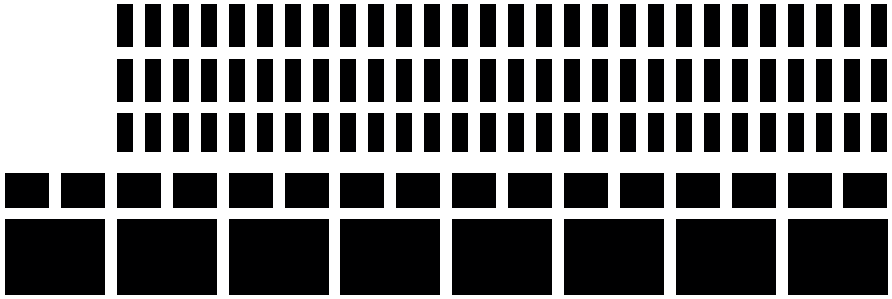
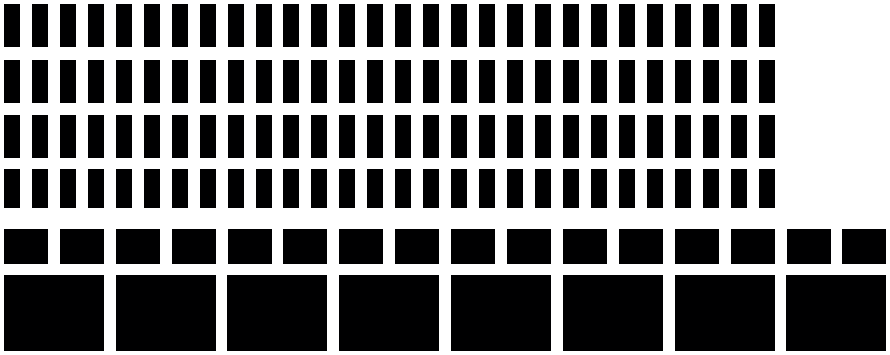
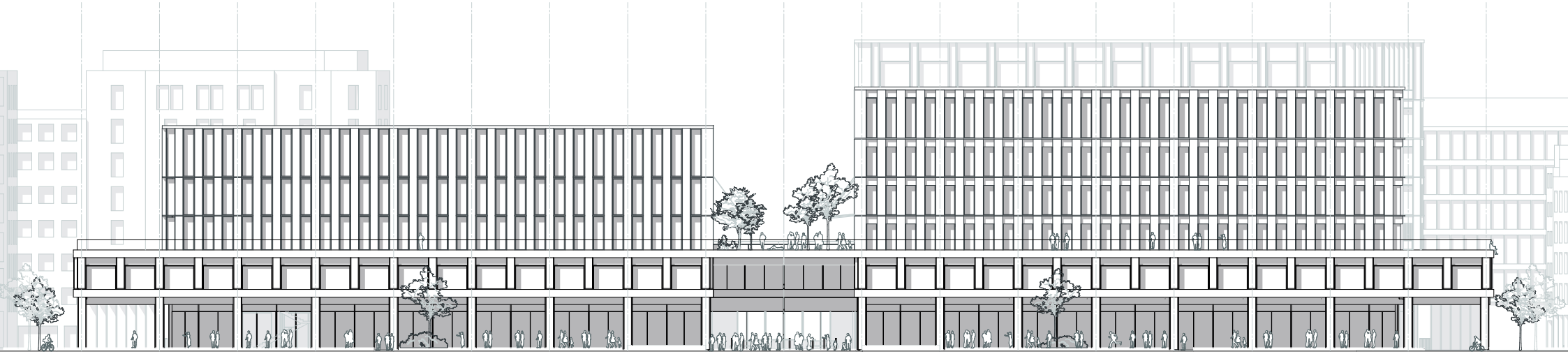
**MEDIUM-SIZED BLOCKS,
PRODUCTION PEAKS IN SUMMER**

https://www.ziche.com/en/marmo/rosa-perlino/



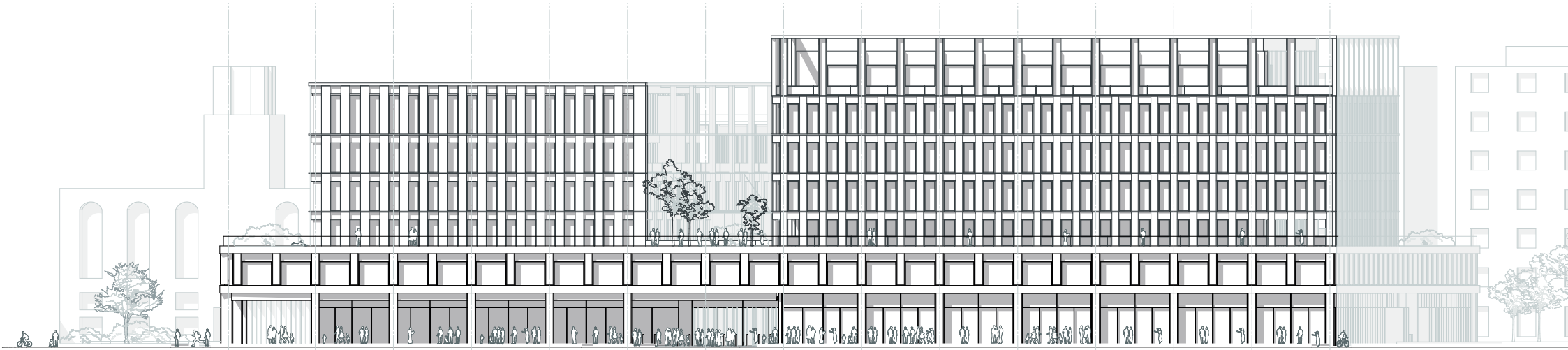




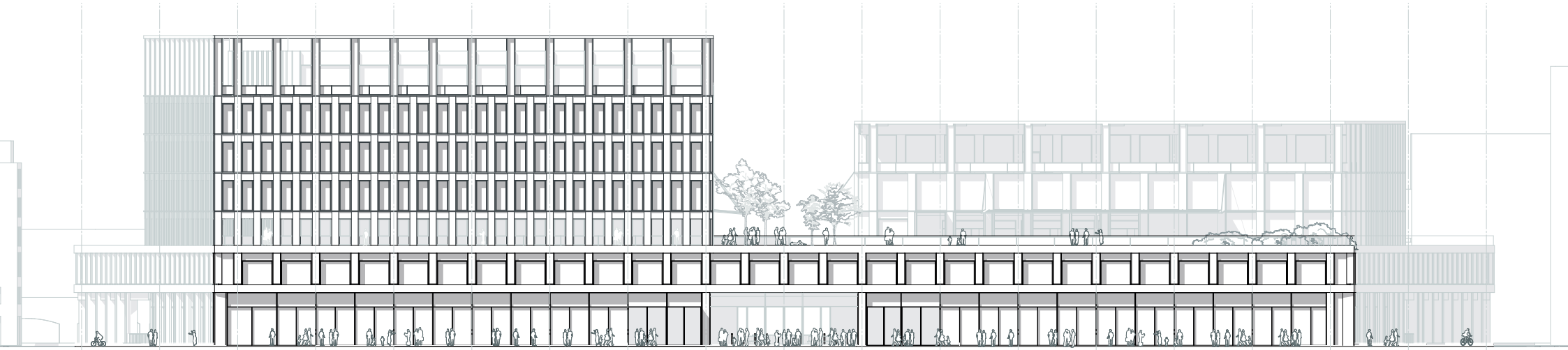




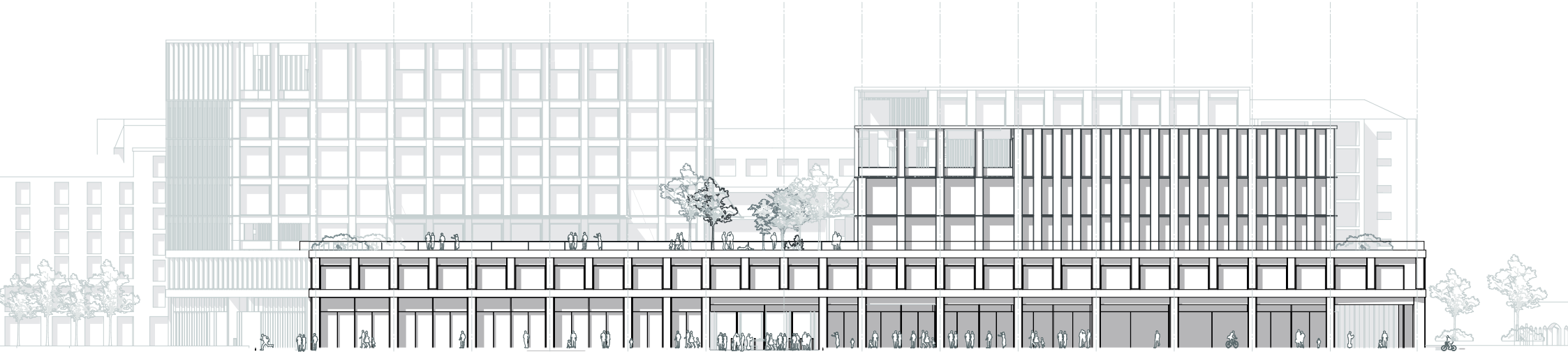






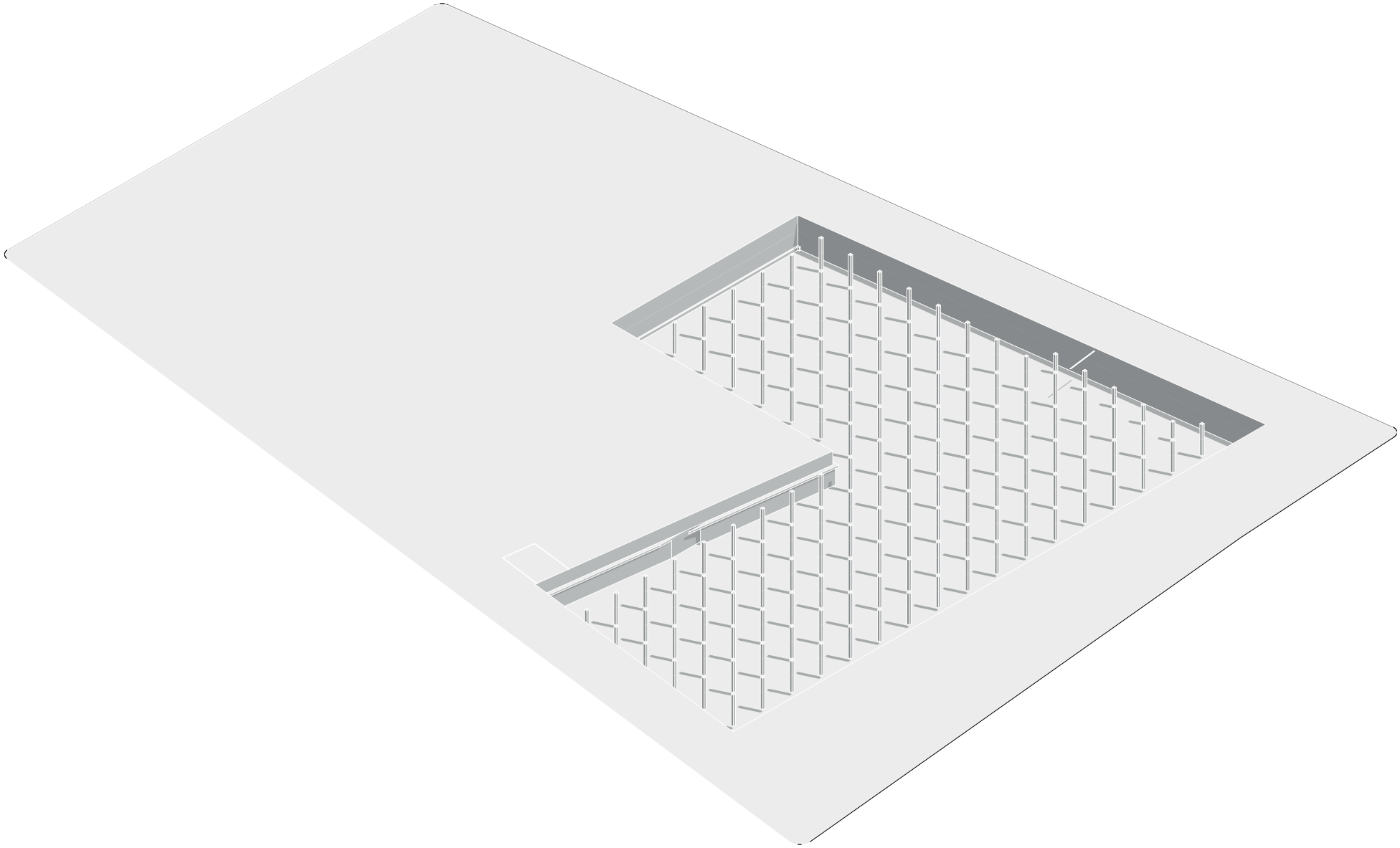




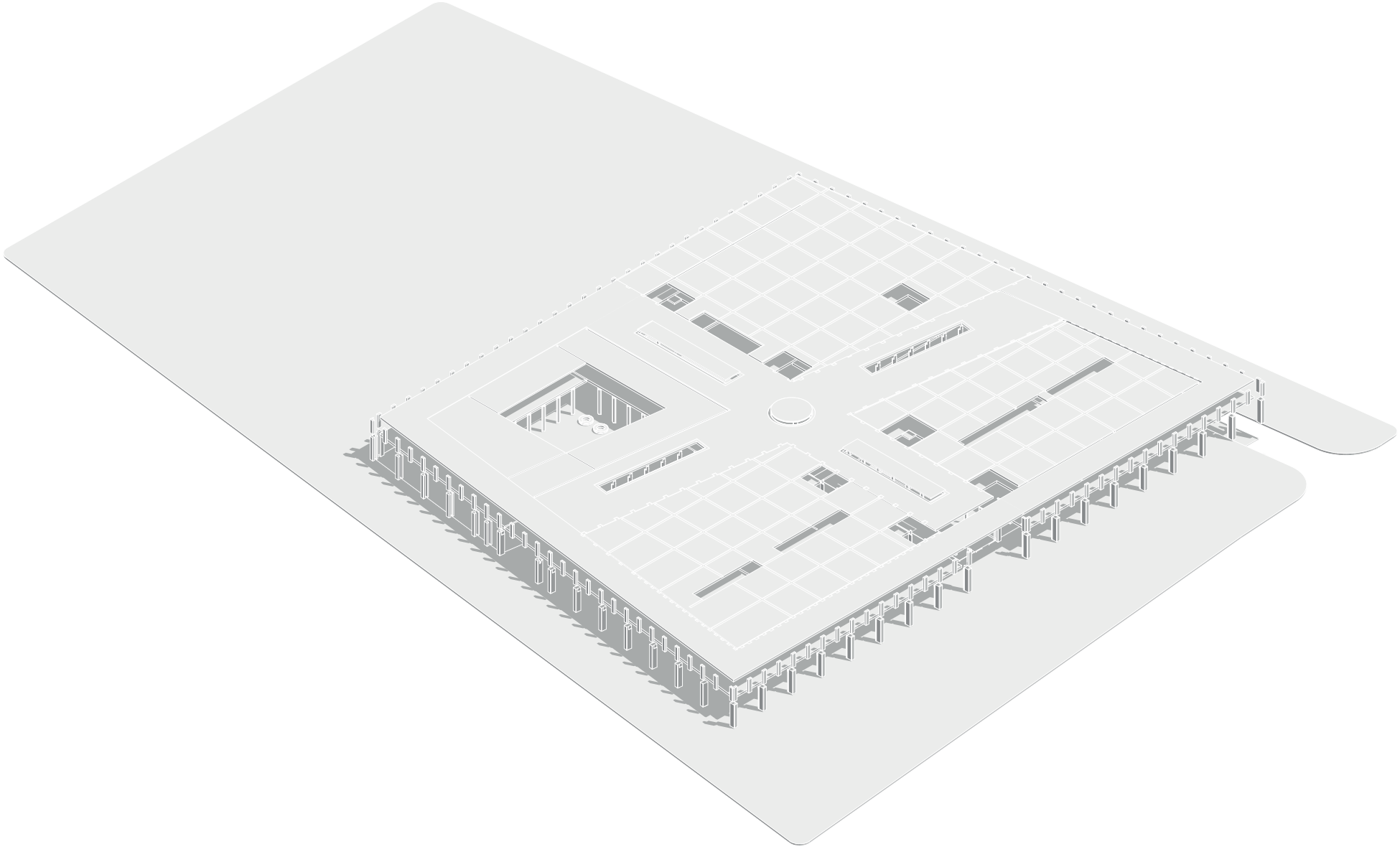


STRUCTURE
BALANCING TRUST

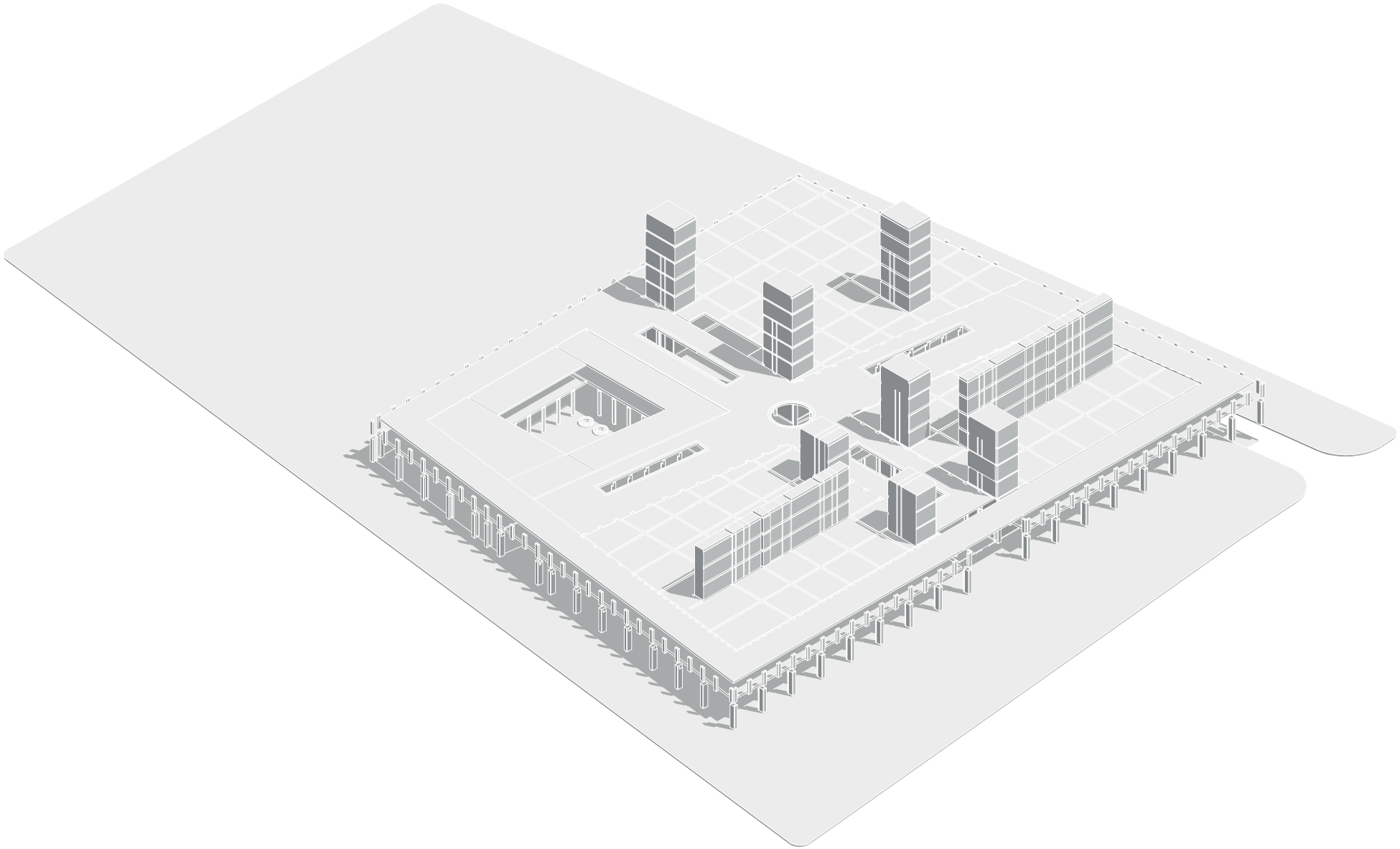
UNDERGROUND STRUCTURE



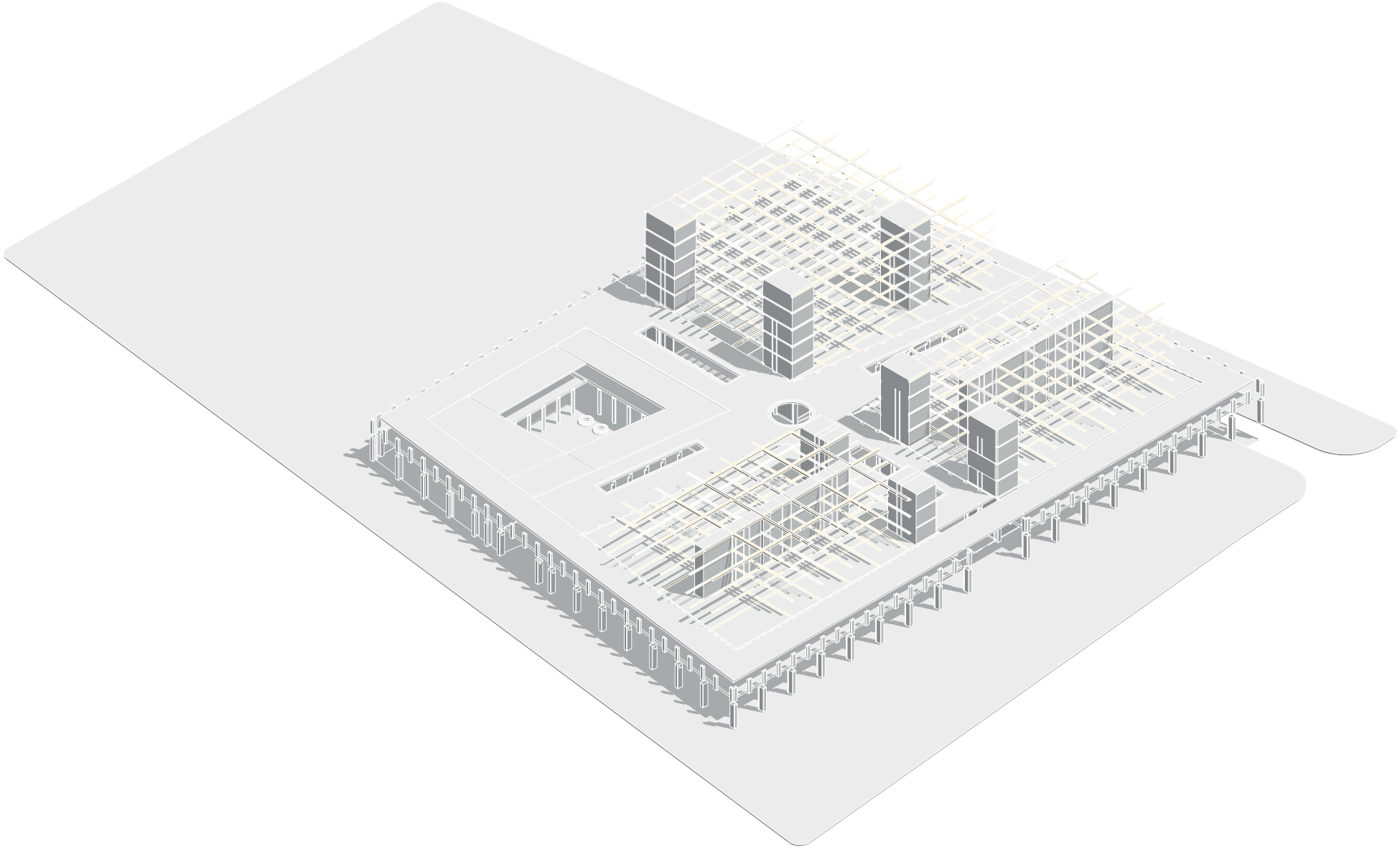
GROUND FLOOR
STRUCTURE



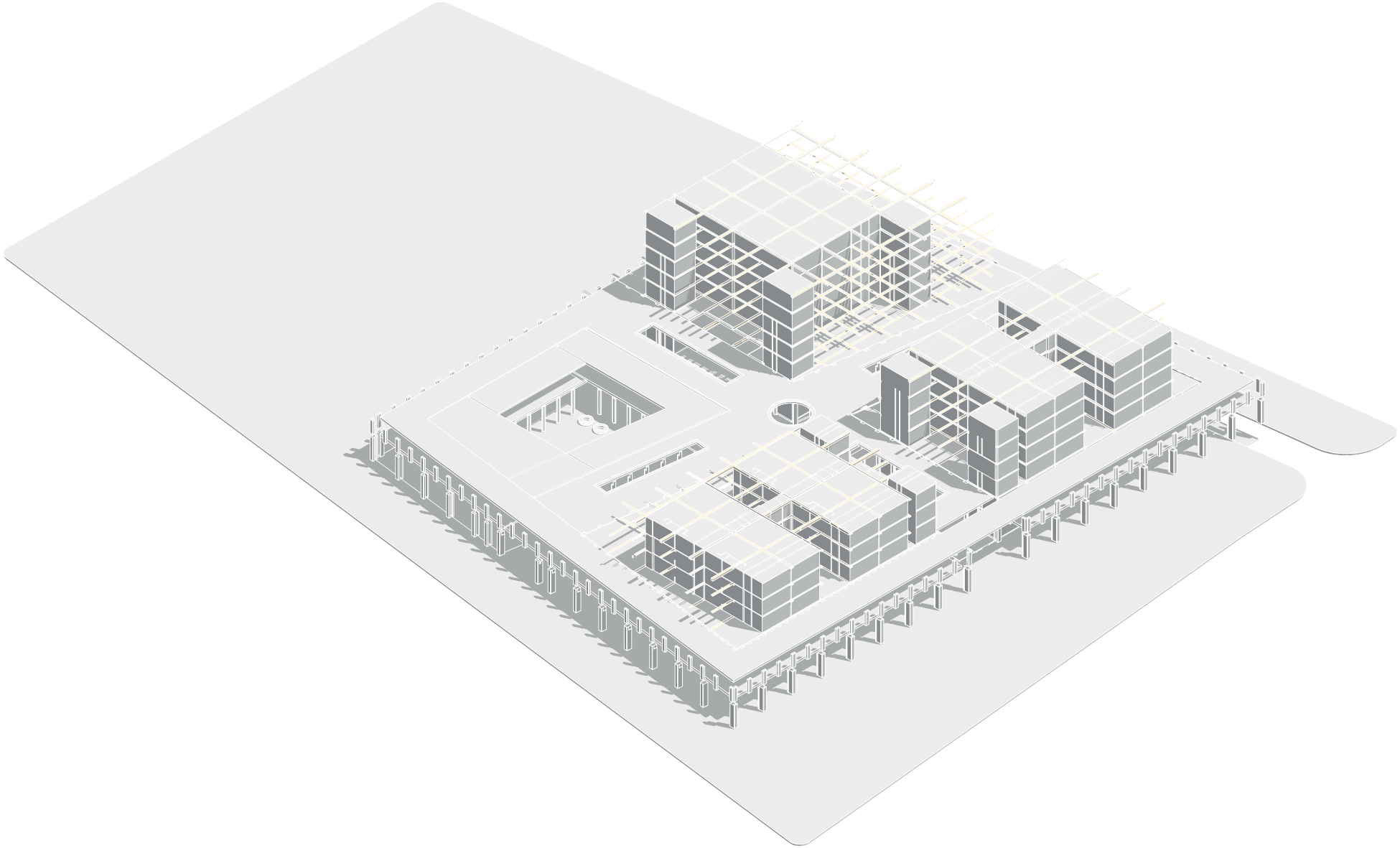
CORES
STRUCTURE



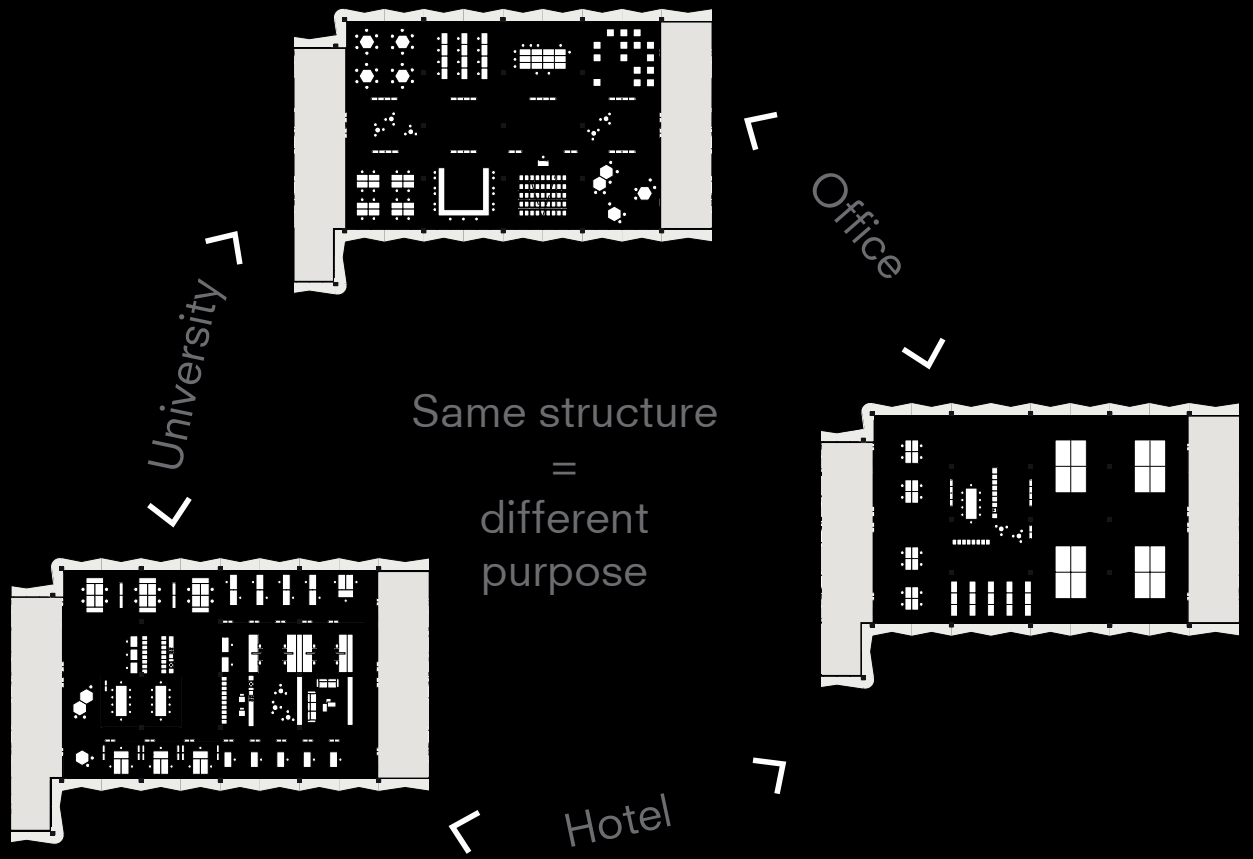
CLT STRUCTURE



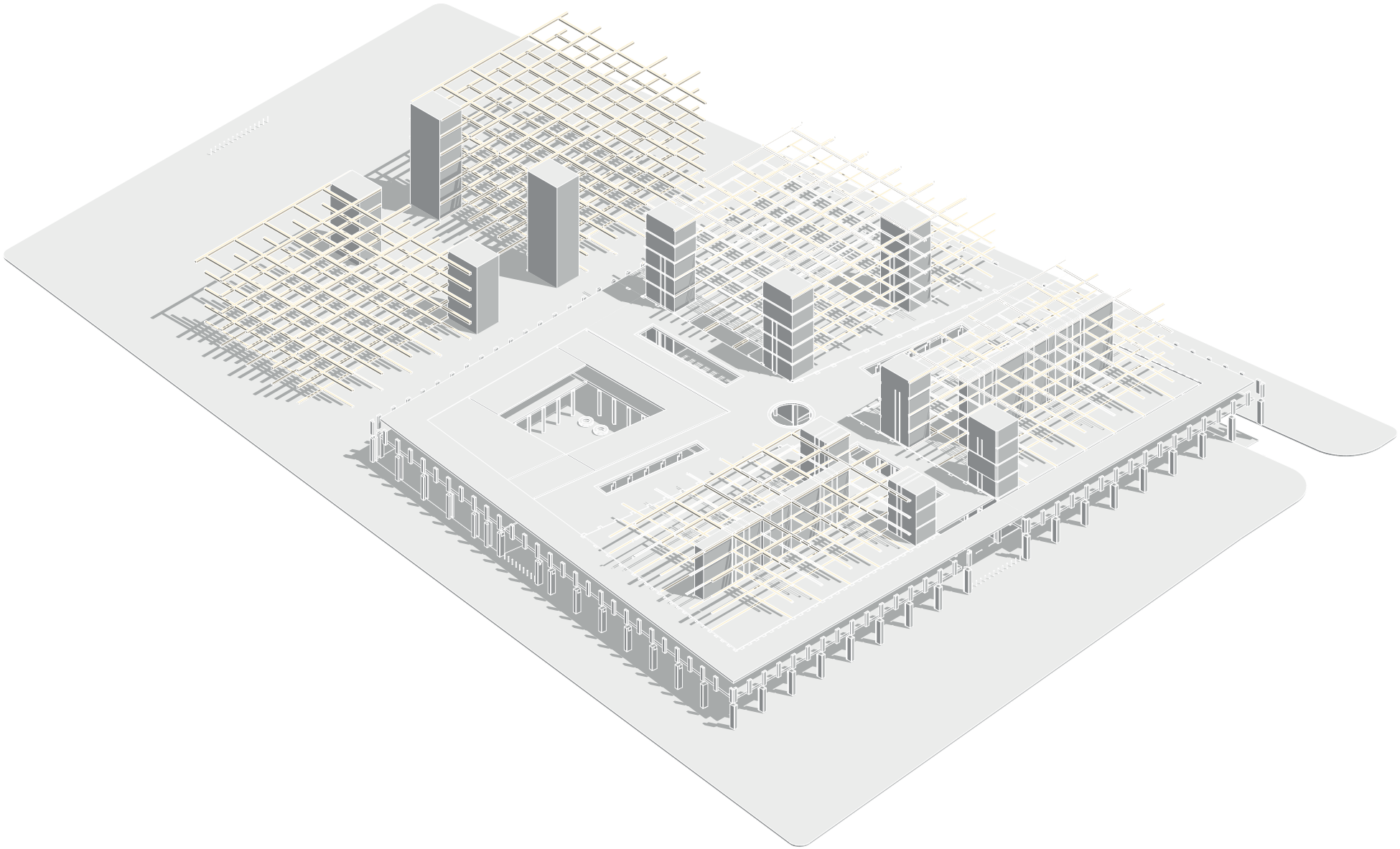
COURTROOMS
STRUCTURE



BUILDING
MATERIAL LENS



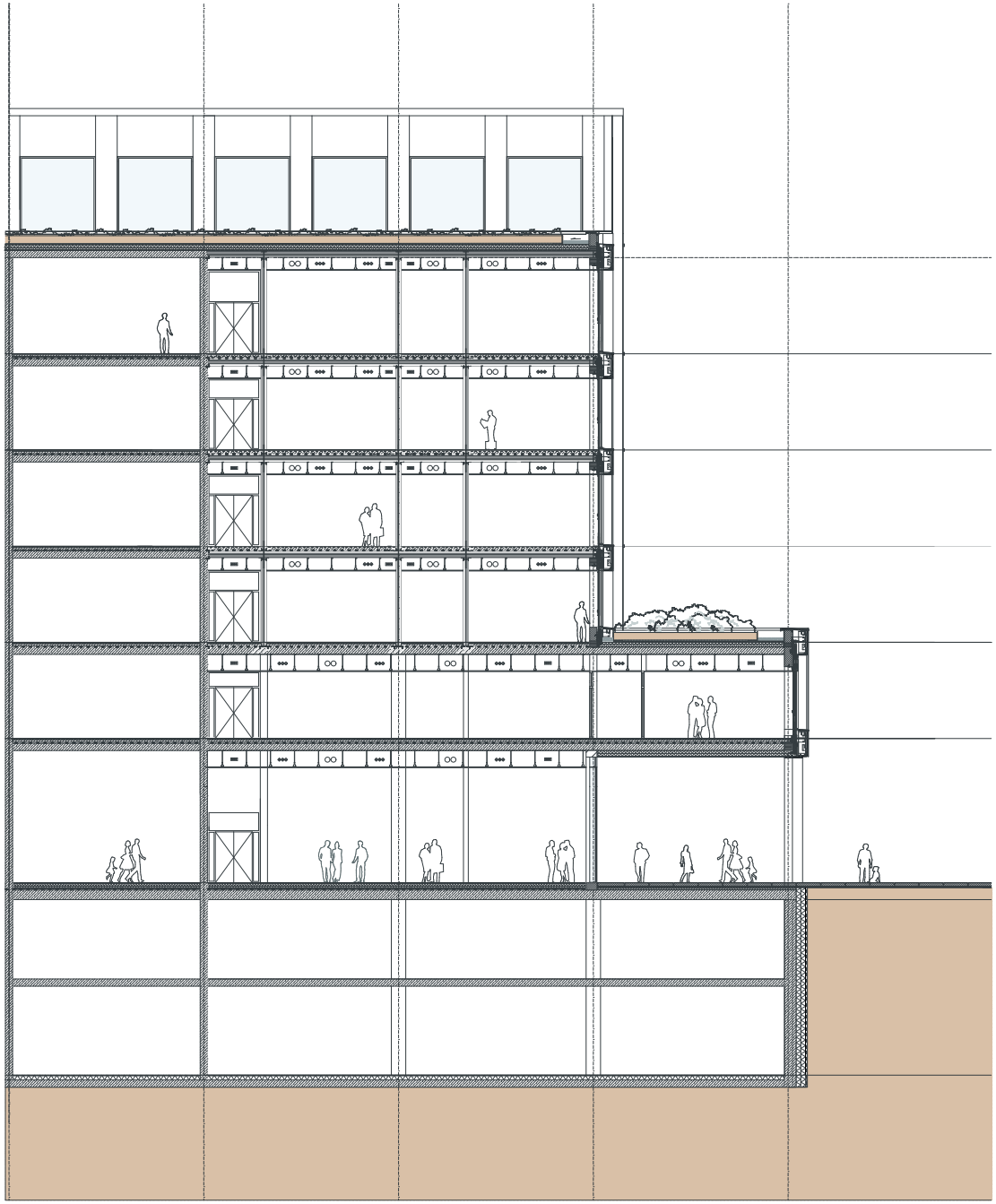
FUTURE EXPANSION
STRUCTURE

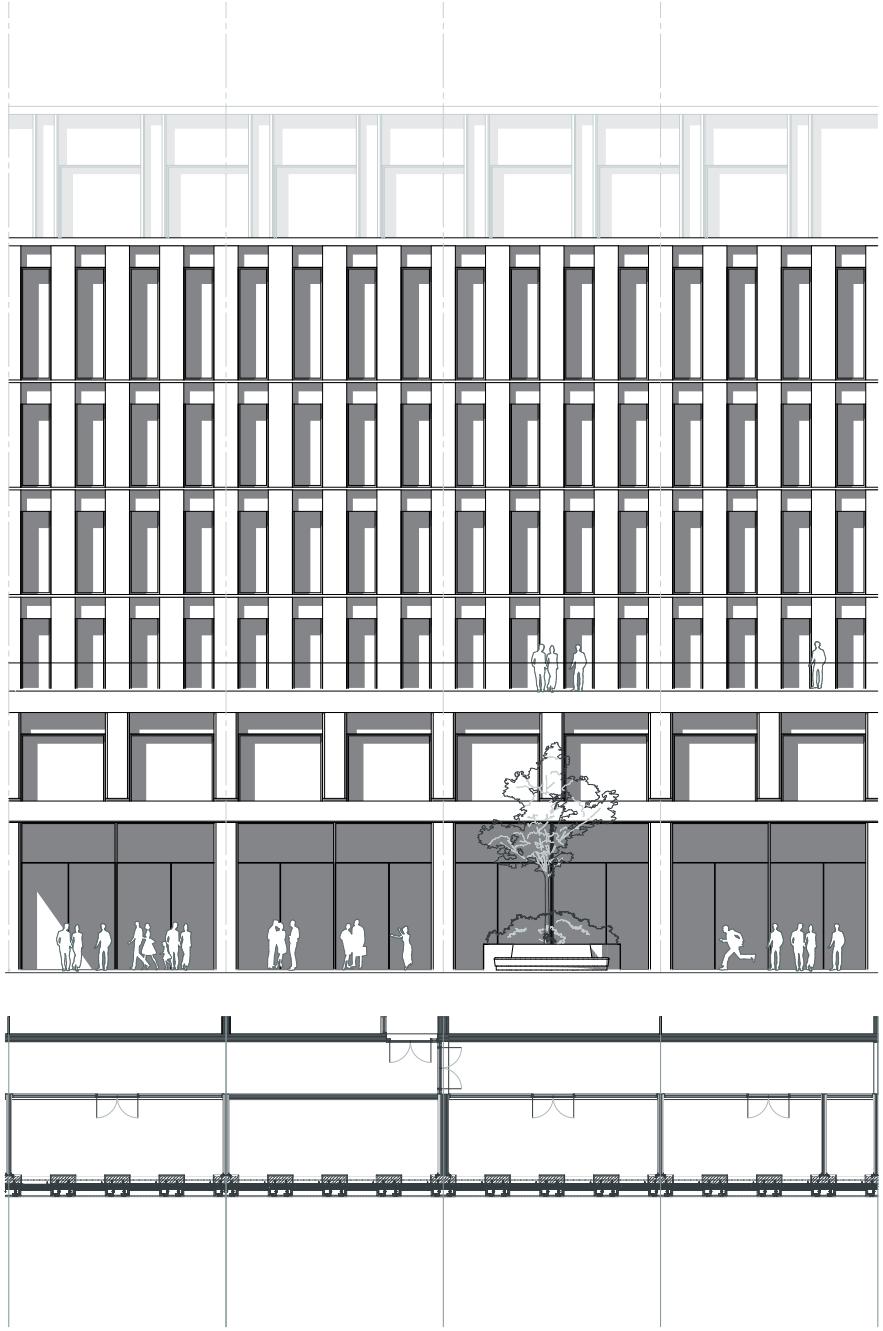


DETIAL
BALANCING TRUST

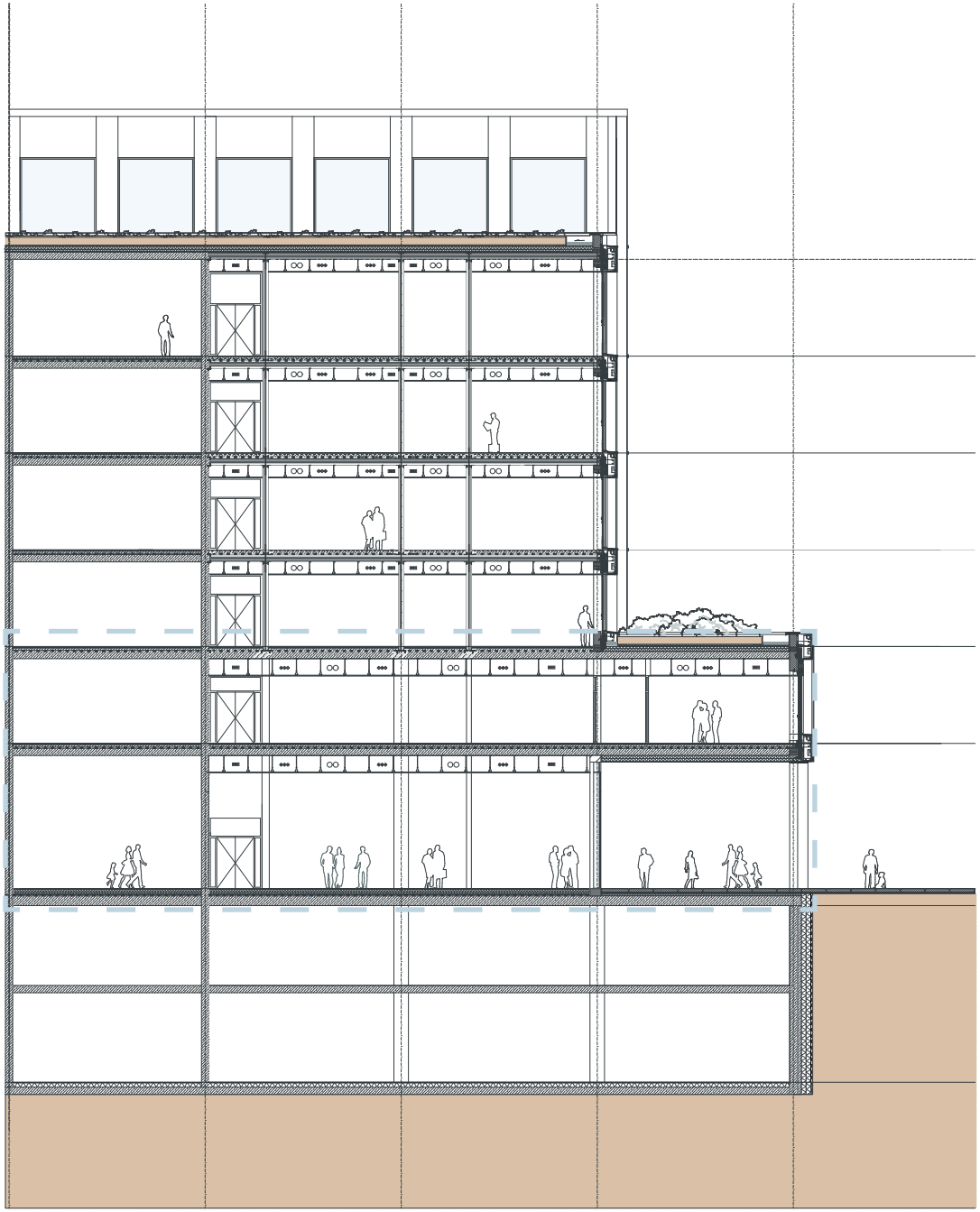


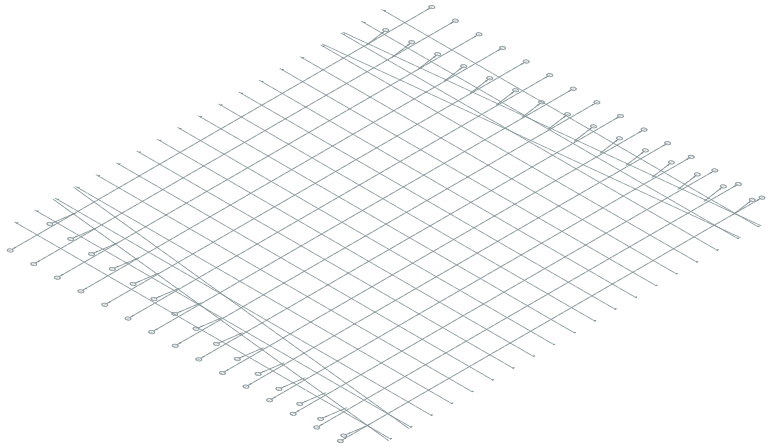
FRAGMENT
DETAIL





GROUND FLOOR DETAIL





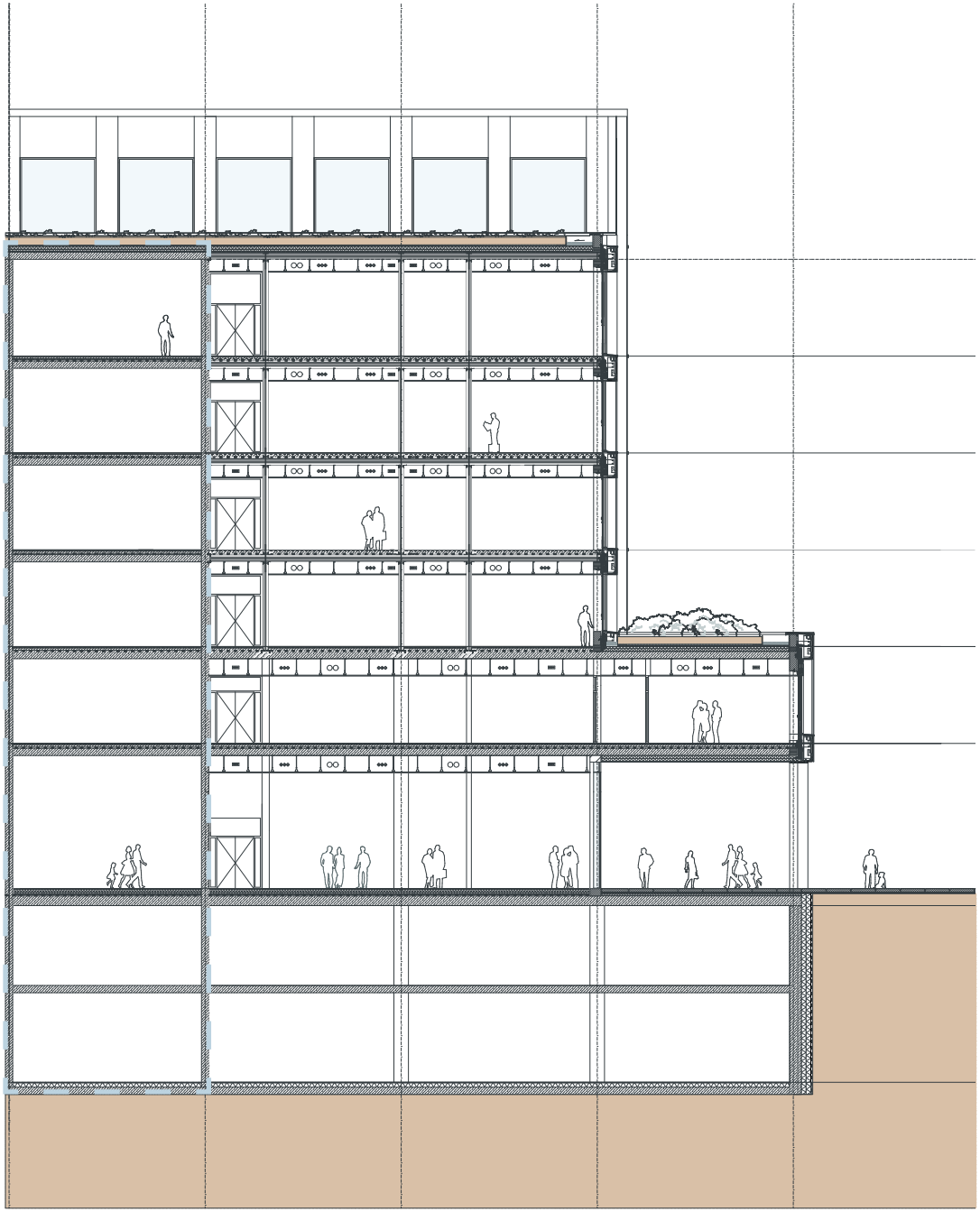
Material Choice: Reinforced Concrete with Recycled Aggregate
Construction Values:

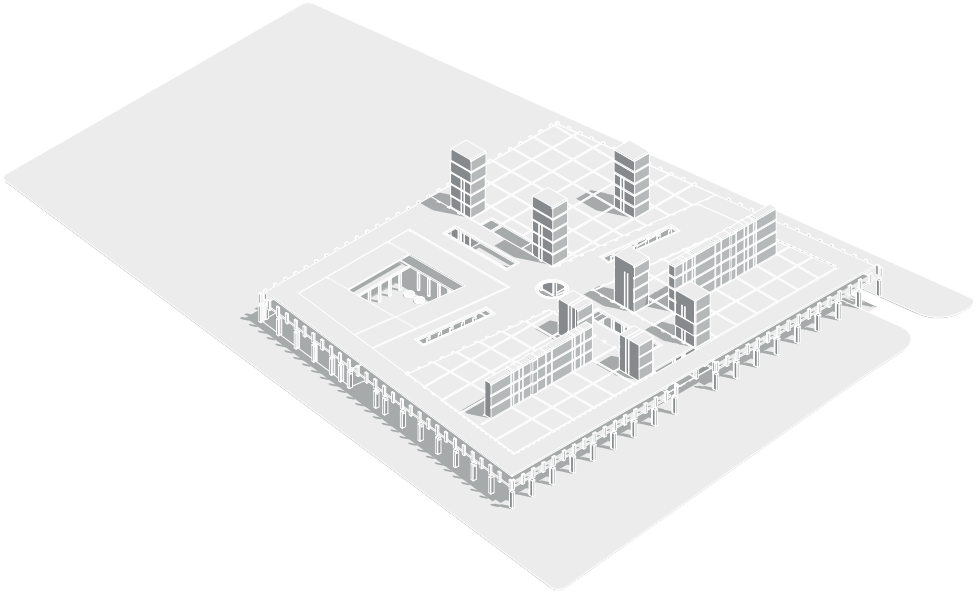
Durability & Load-bearing capacity: Suitable for public access and heavy foot traffic.

Sustainability: Use of recycled aggregates lowers carbon footprint.

Civic Presence: Solid base reflects the institutional permanence of justice.

CORE DETAIL





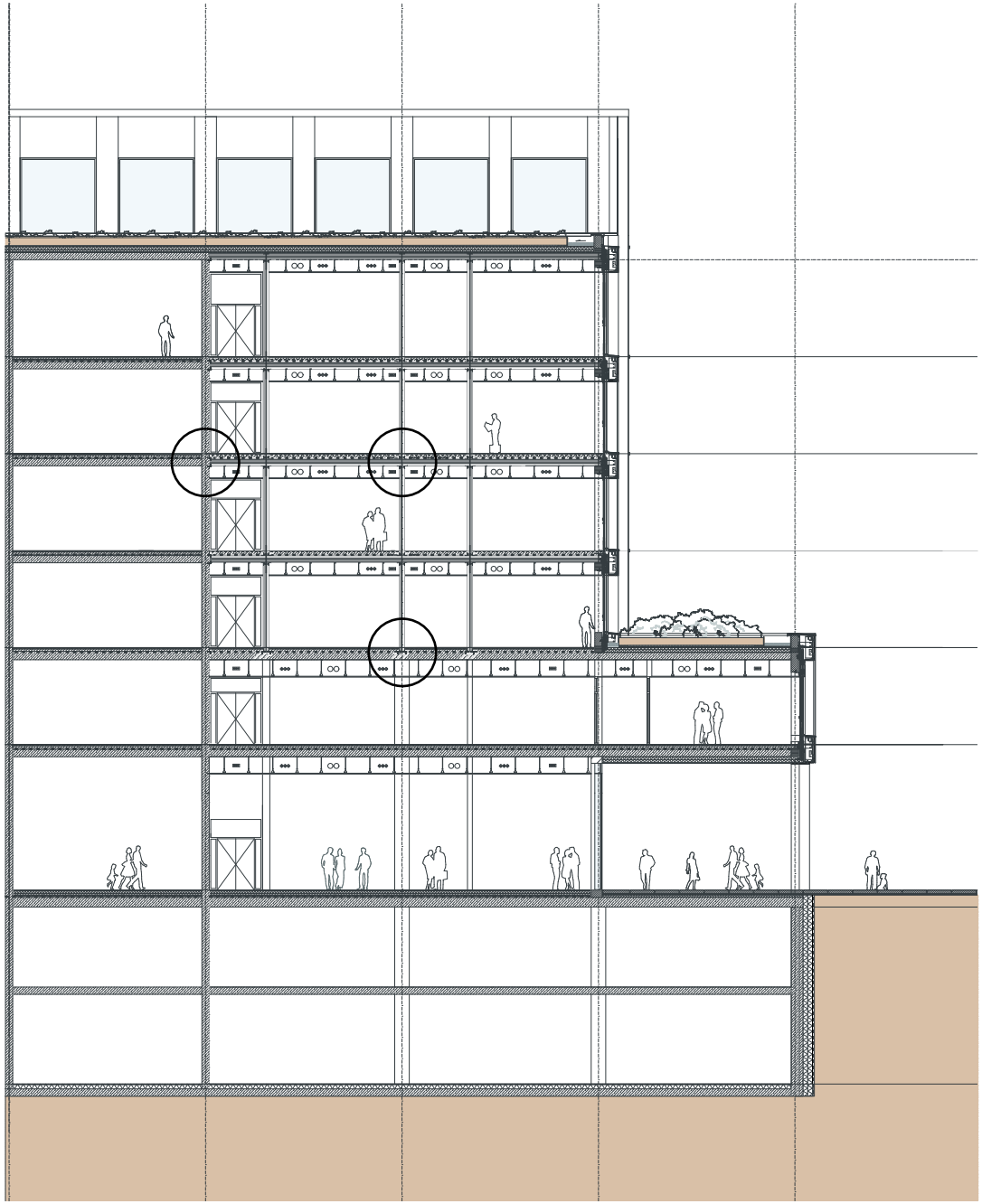
Material Choice: In-situ Concrete Core with Insulated Prefab Panels
Construction Values:

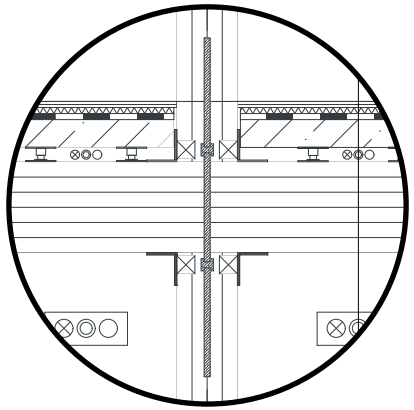
Fire Safety & Robustness: Essential for vertical circulation and evacuation routes.

Thermal & Acoustic Insulation: Quiet, secure zones for vertical movement and HVAC systems.

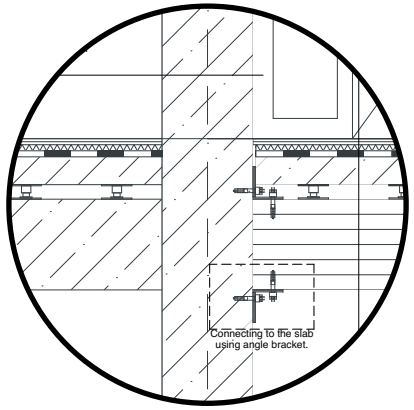
Modularity: Prefab panels speed up construction, provide quality control.

CLT DETAIL

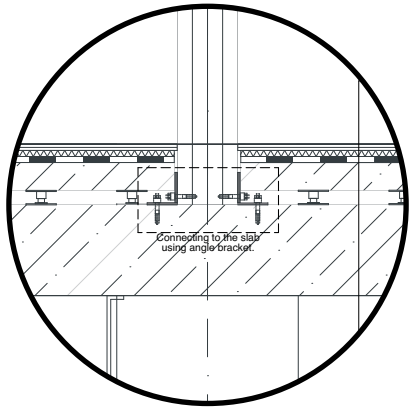




CLT - Joint between wall panels and floor slab using fully threaded screws and dowels.

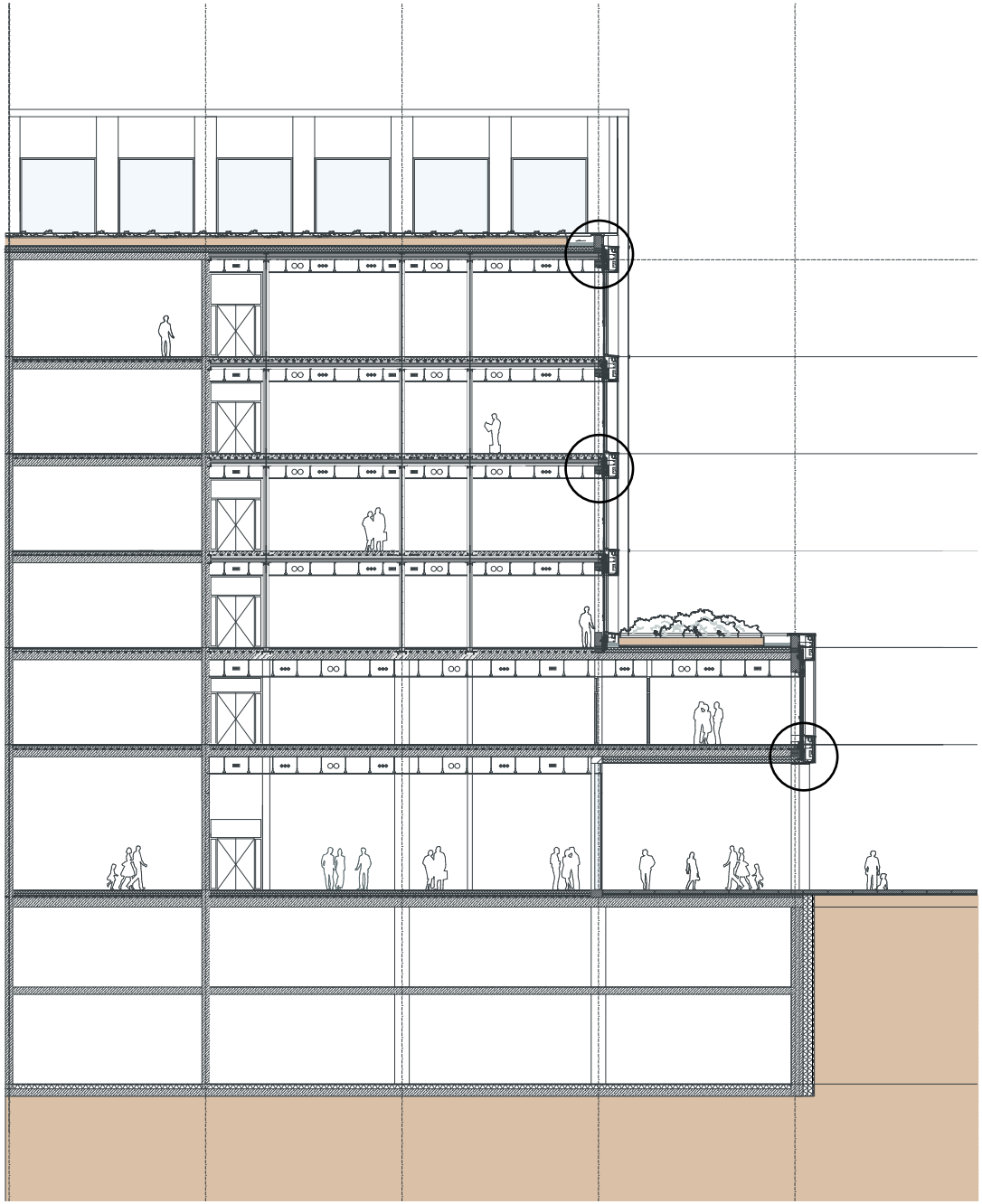


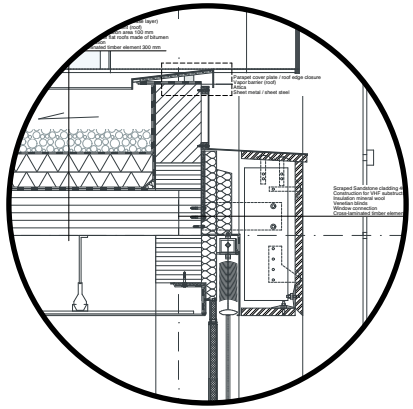
CLT - Joint between wall panel and floor slab using angle bracket.



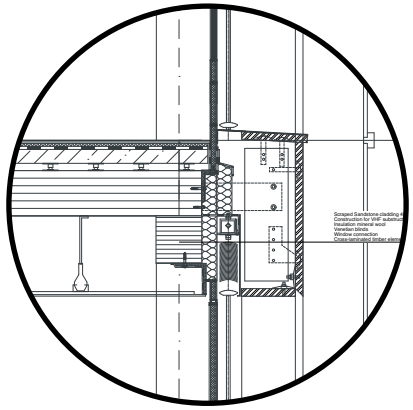
CLT - Connecting to the foundation using angle bracket

FACADE DETAIL

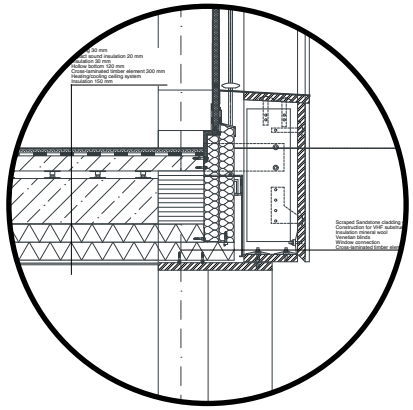




Attika Cap
– Stone Parapet Termination
Locally sourced Milanese stone is used for weather-resistant performance and formal continuity, subtly referencing traditional Milan cornices.

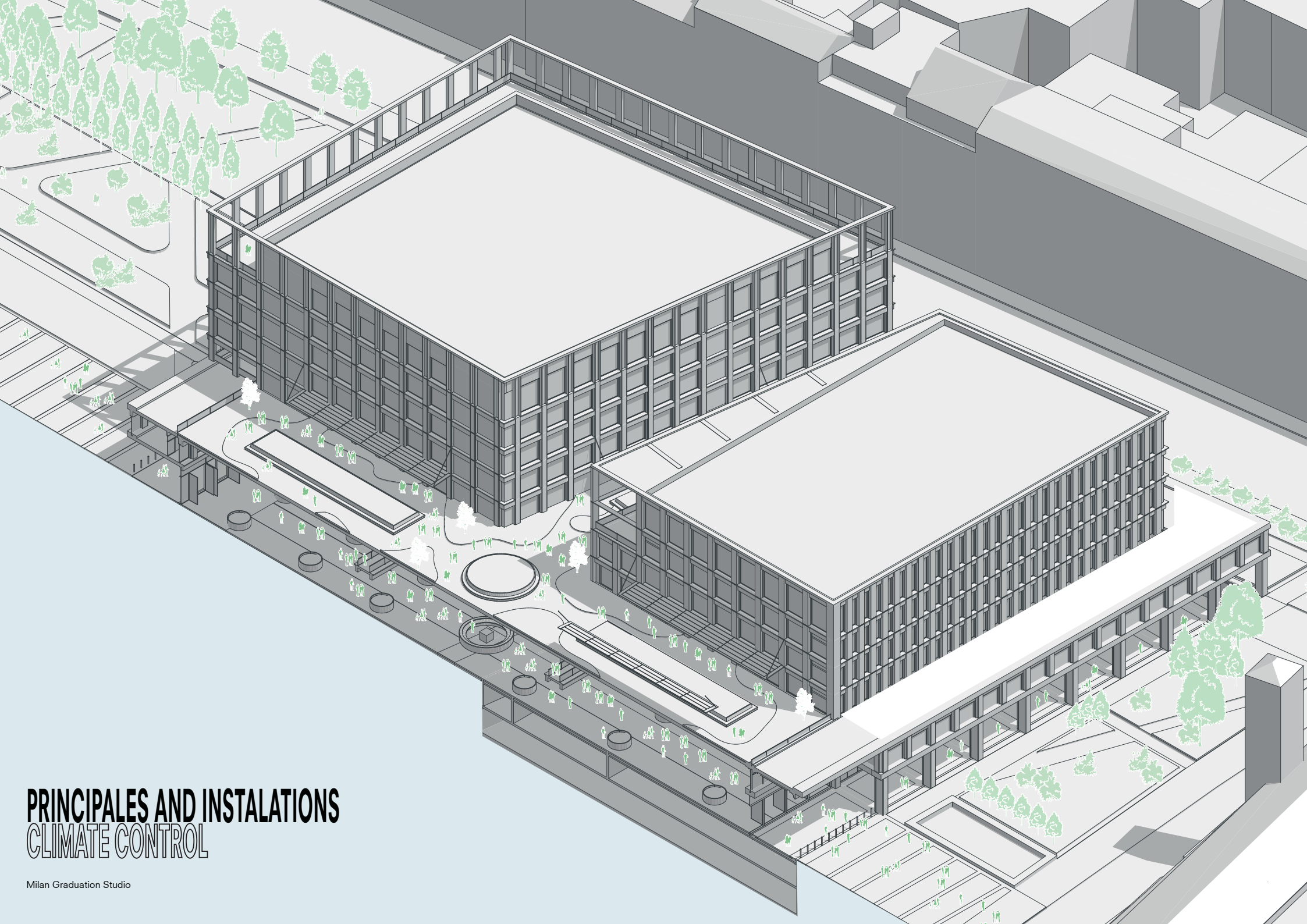


Primary Façade Assembly
– Cladding & Structural Interface
The expressive rhythm of the elevation, blending tectonic clarity with the textured authenticity of regional stone materiality.



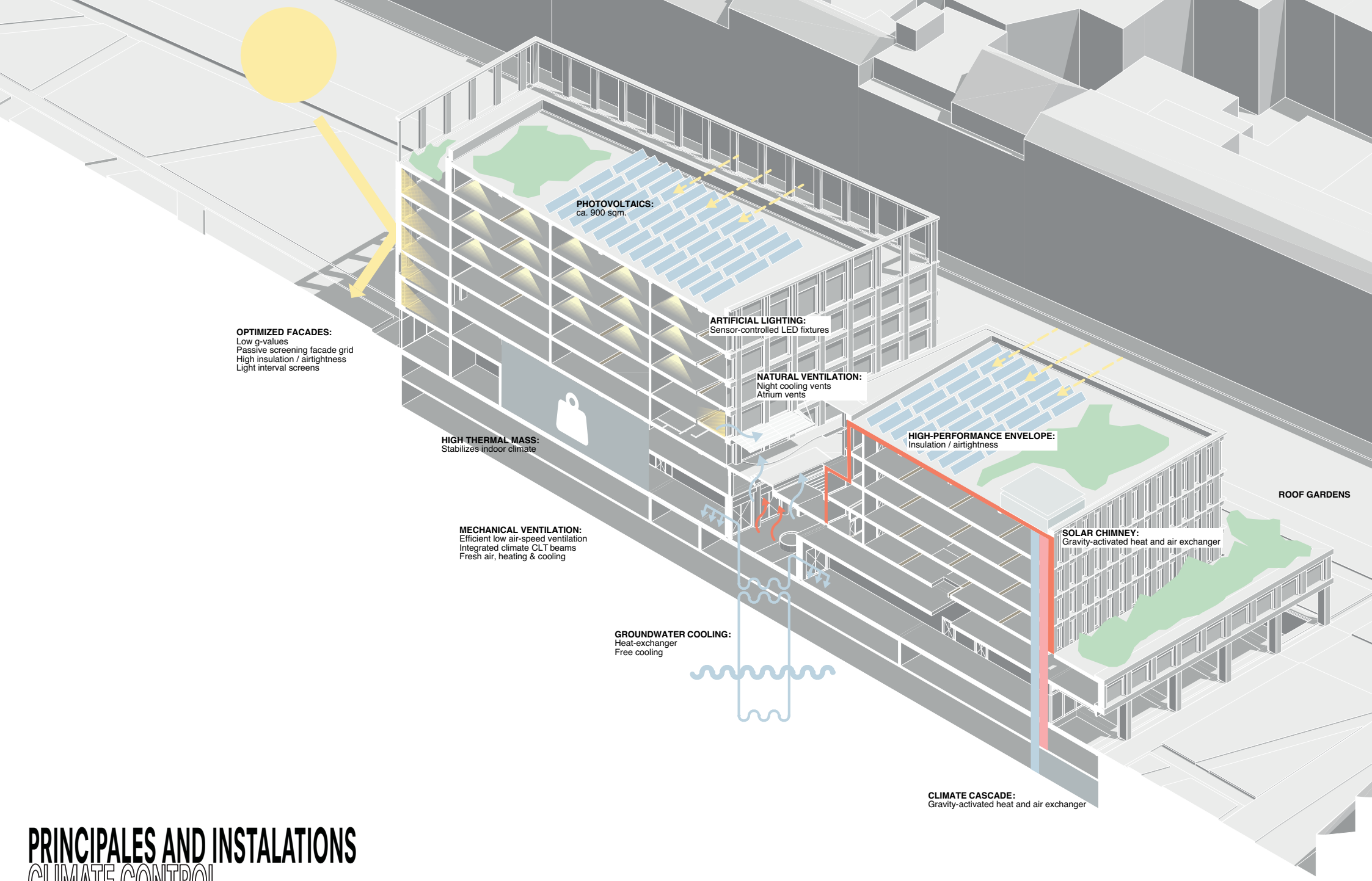
Base Façade Termination
– Ingress Threshold
Crafted in local natural stone with tactile finishes, the base expresses civic permanence and aligns with Milanese streetscape language, reinforcing the building's institutional presence at the pedestrian level.

CLIMATE CONTROL
BALANCING TRUST



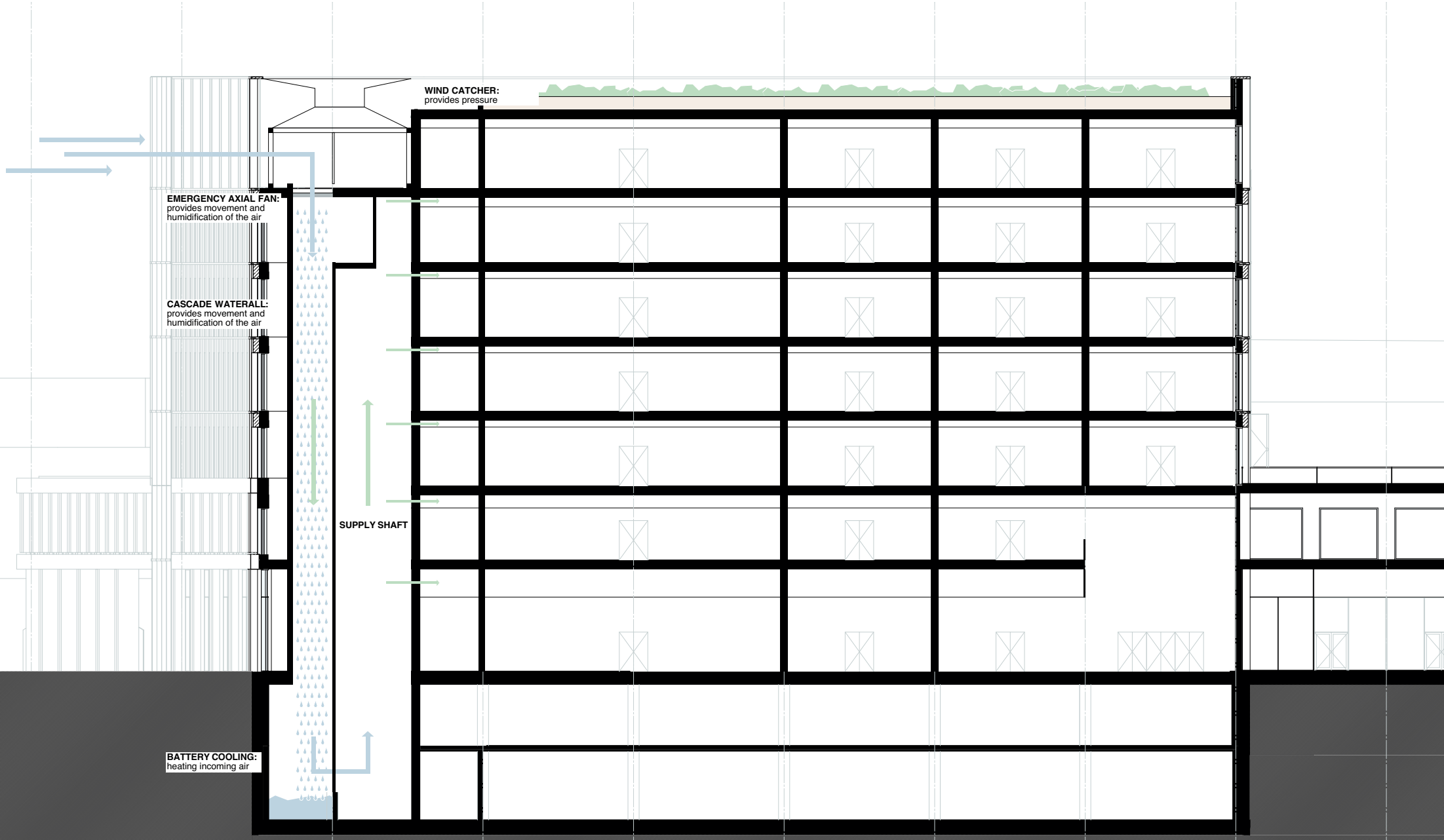
PRINCIPALES AND INSTALATIONS
CLIMATE CONTROL

Milan Graduation Studio

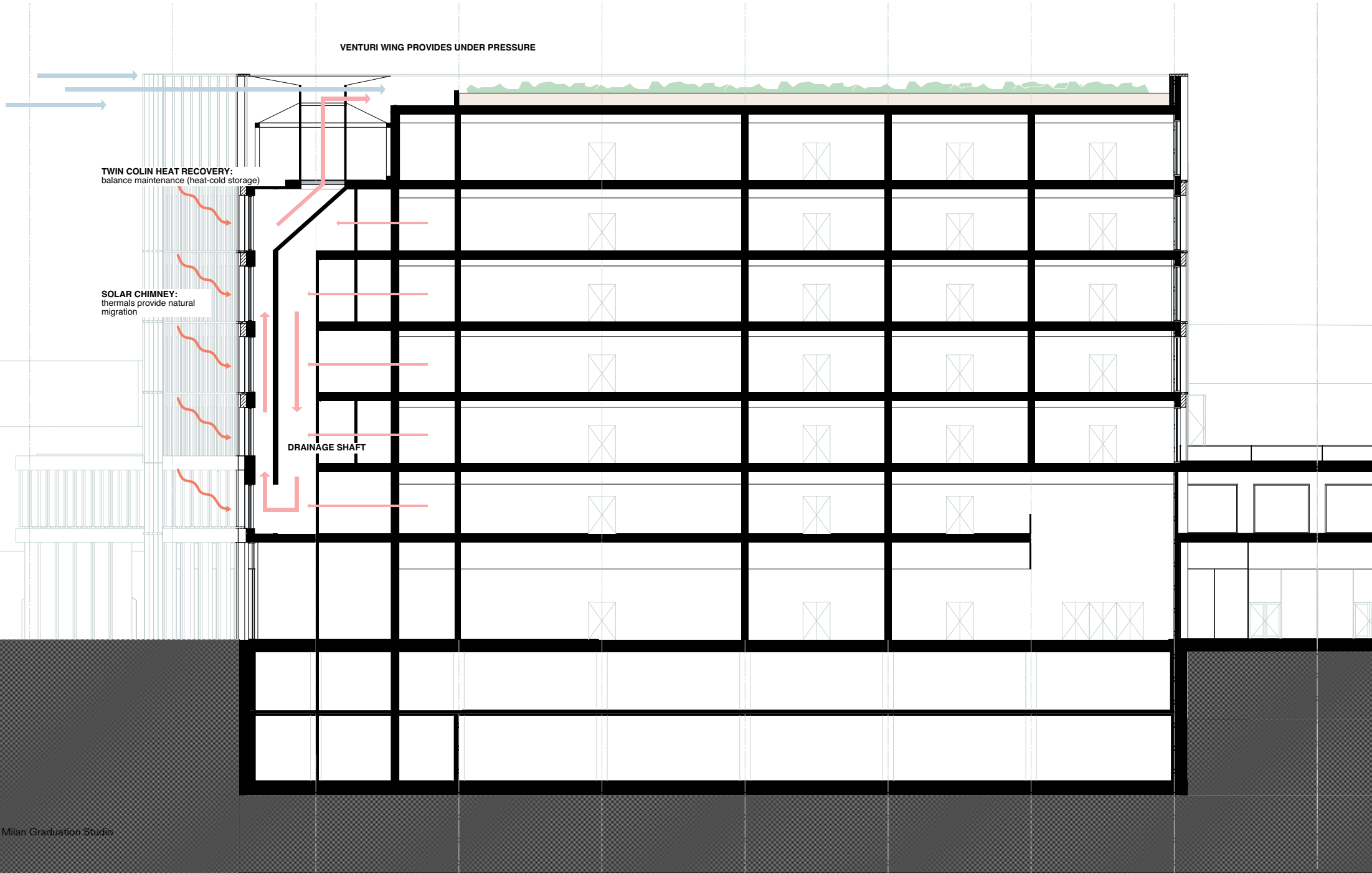


PRINCIPALES AND INSTALATIONS
CLIMATE CONTROL

VENTEC ROOF
CLIMATE CONTROL



VENTEC ROOF
CLIMATE CONTROL



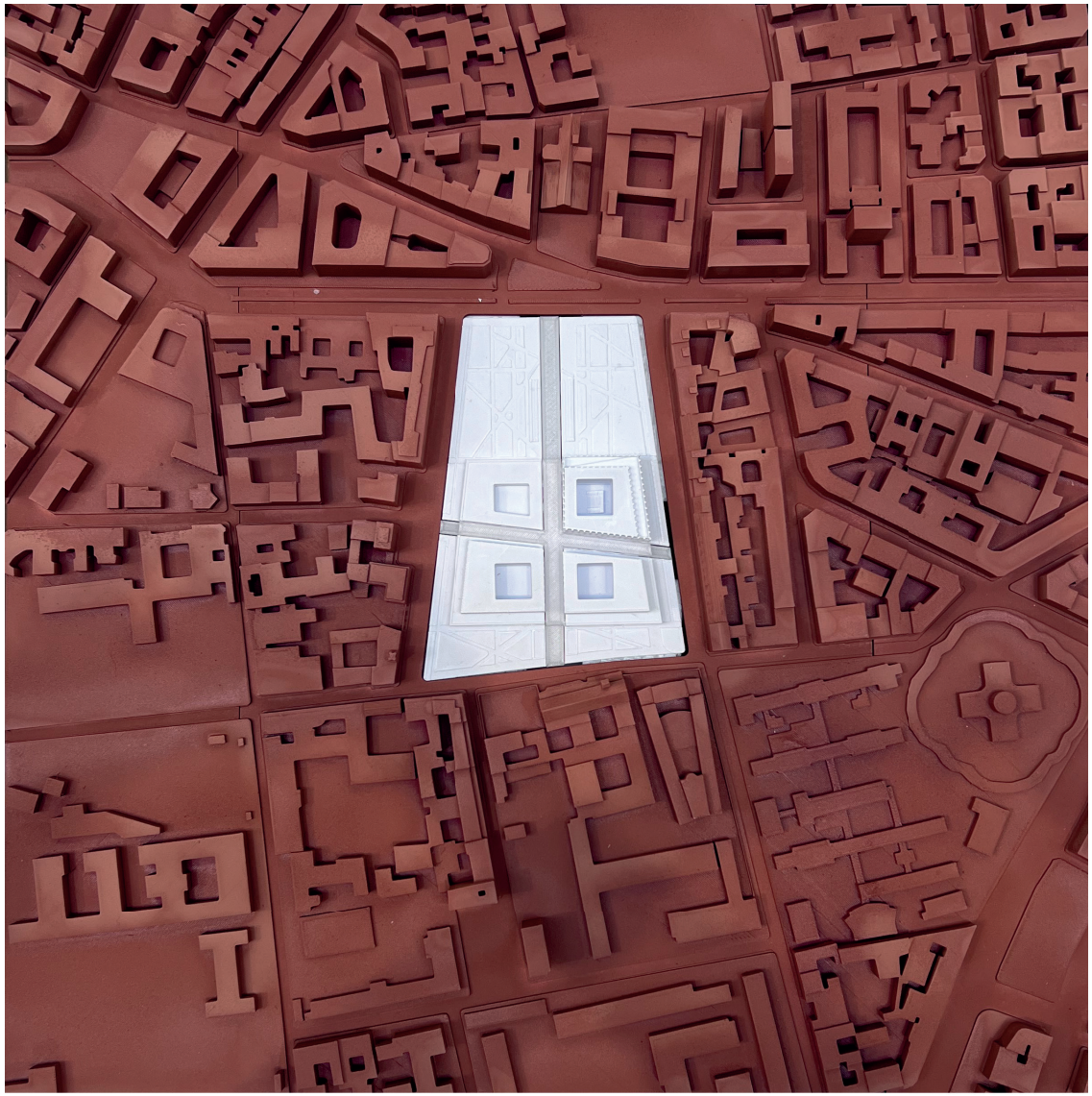
CONCLUSION
BALANCING TRUST



The Bodies & Building Milan Graduation Studio exhibition 2025



The Bodies & Building Milan Graduation Studio exhibition 2025





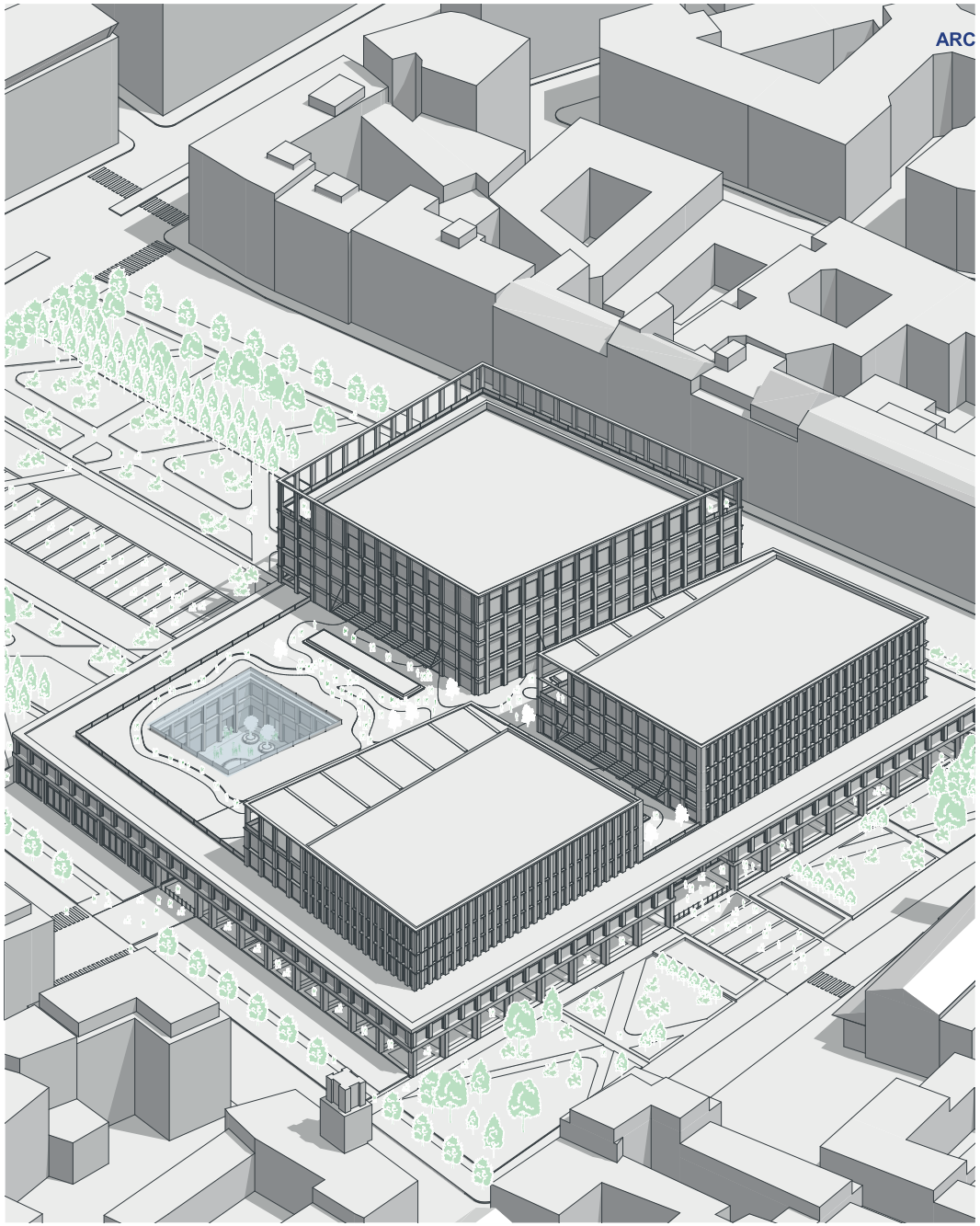
CONCLUSION
BALANCING TRUST





CONCLUSION
BALANCING TRUST



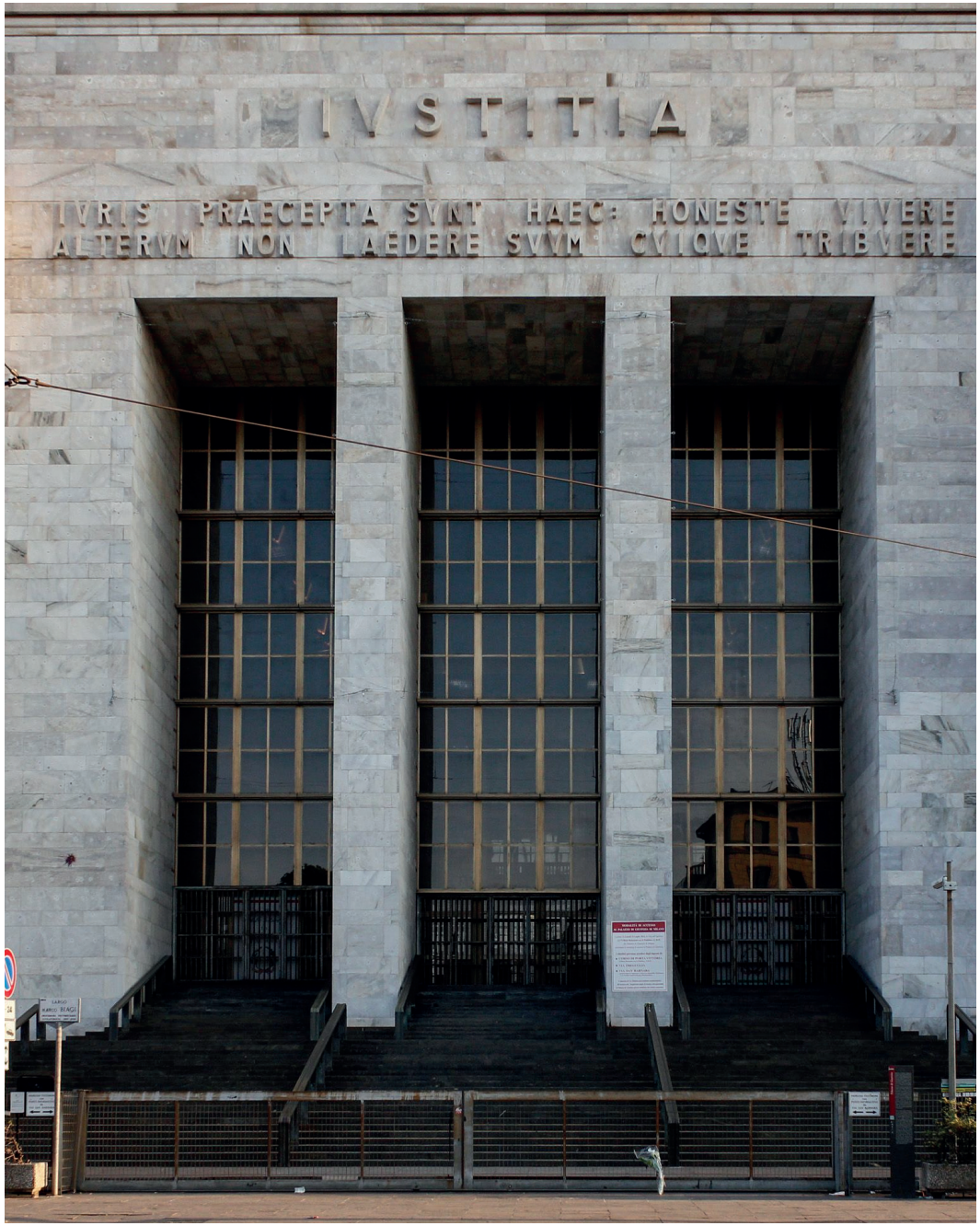


CONCLUSION
BALANCING TRUST



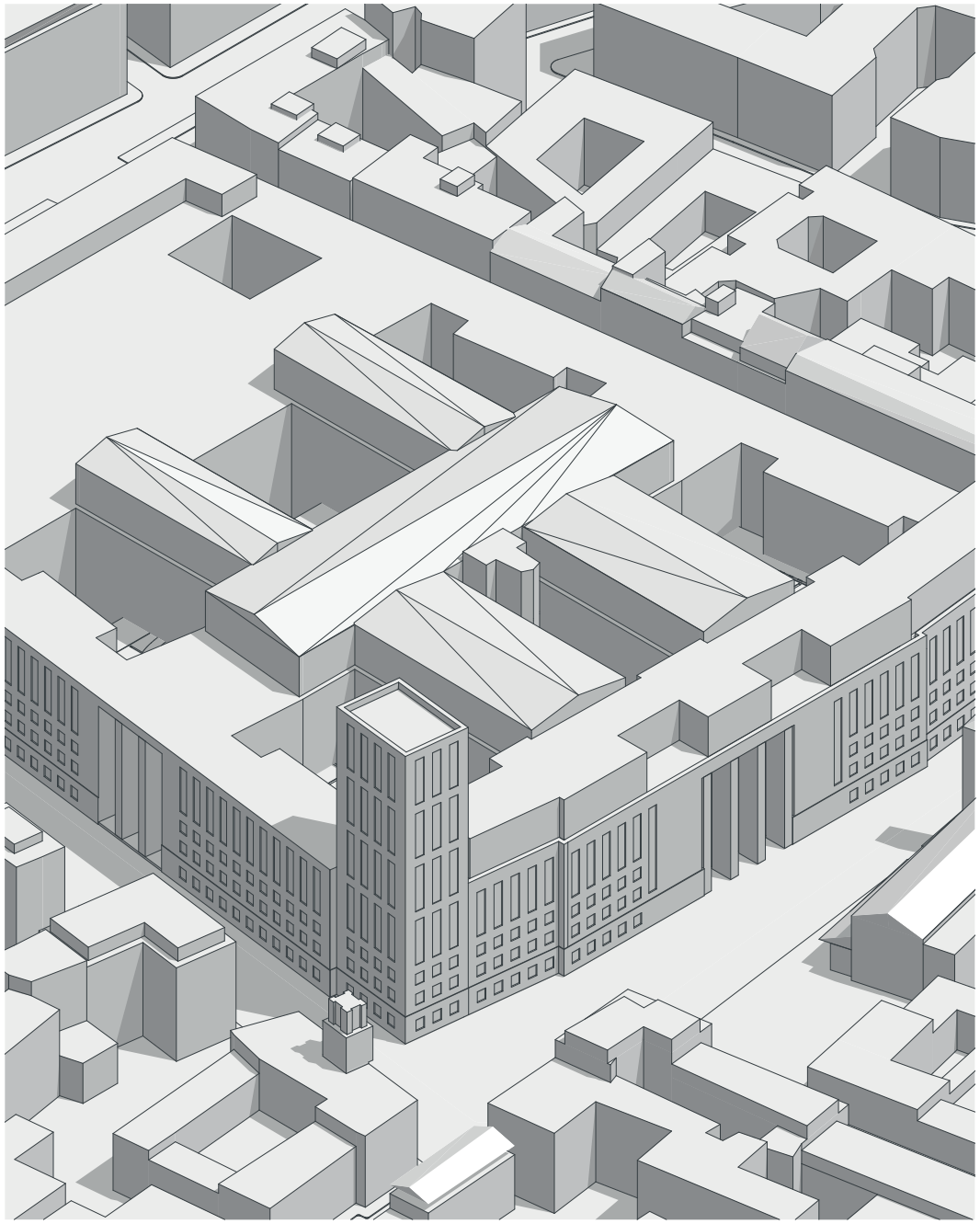


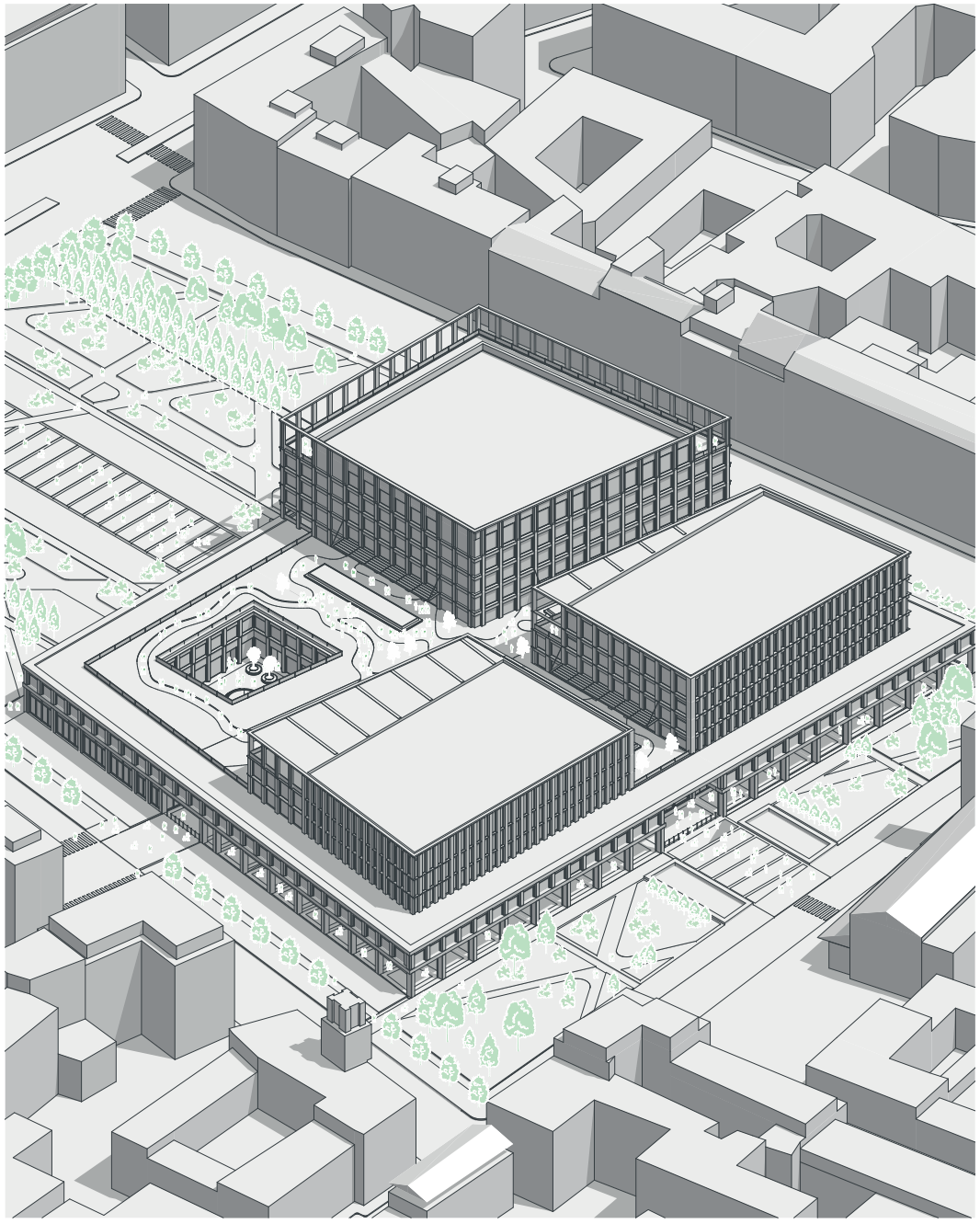
CONCLUSION
BALANCING TRUST



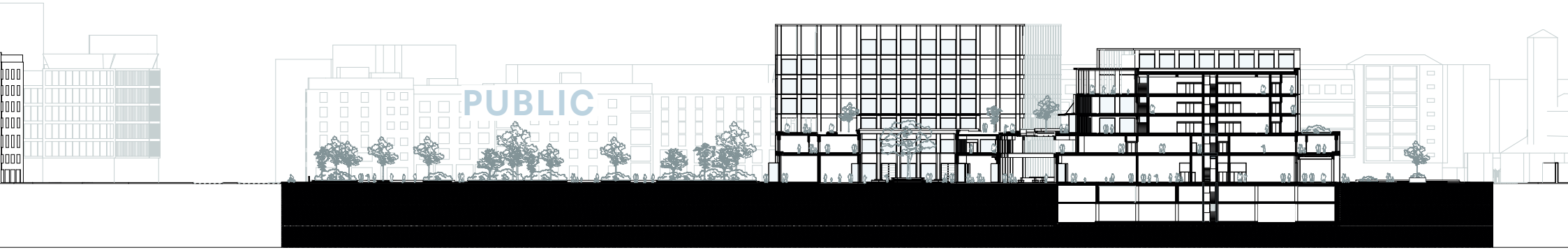


CONCLUSION
BALANCING TRUST





CONCLUSION
BALANCING TRUST



THANK YOU

BALANCING TRUST

