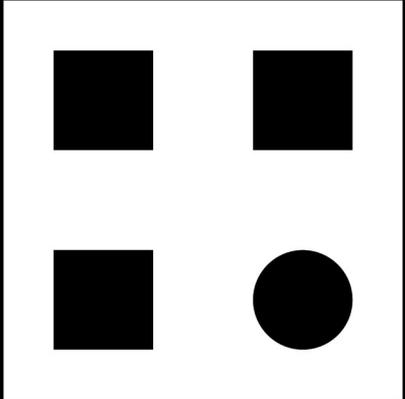


MESSE PERFORMANCE CUBE
Performing Arts Center Berlin

Edwin Scharringa

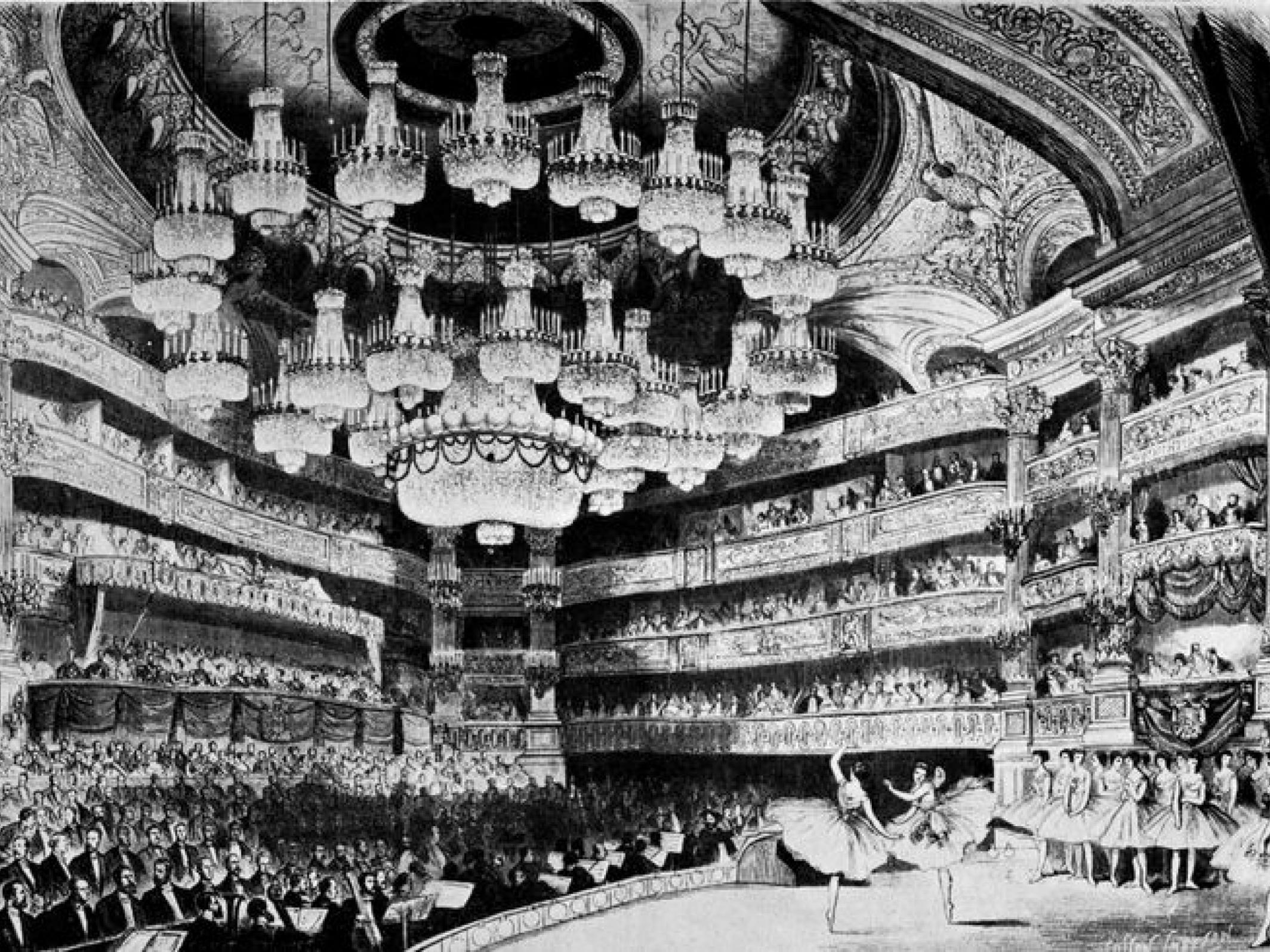


P5 Complex Projects
07.07.2023









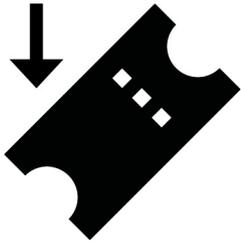




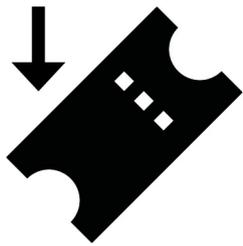
**FROM ENTERTAINMENT
ENJOYED BY MANY, TO CULTURE
APPRECIATED BY FEW**



**STRUGGLE TO ADAPT TO
CURRENT TIMES...**



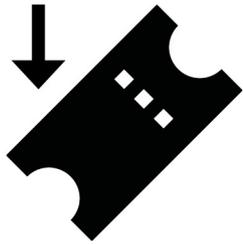
LOW ATTENDANCE RATES



LOW ATTENDANCE RATES



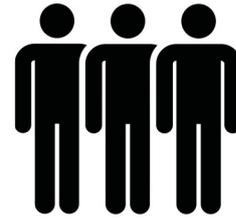
SUBSIDISED SEATS



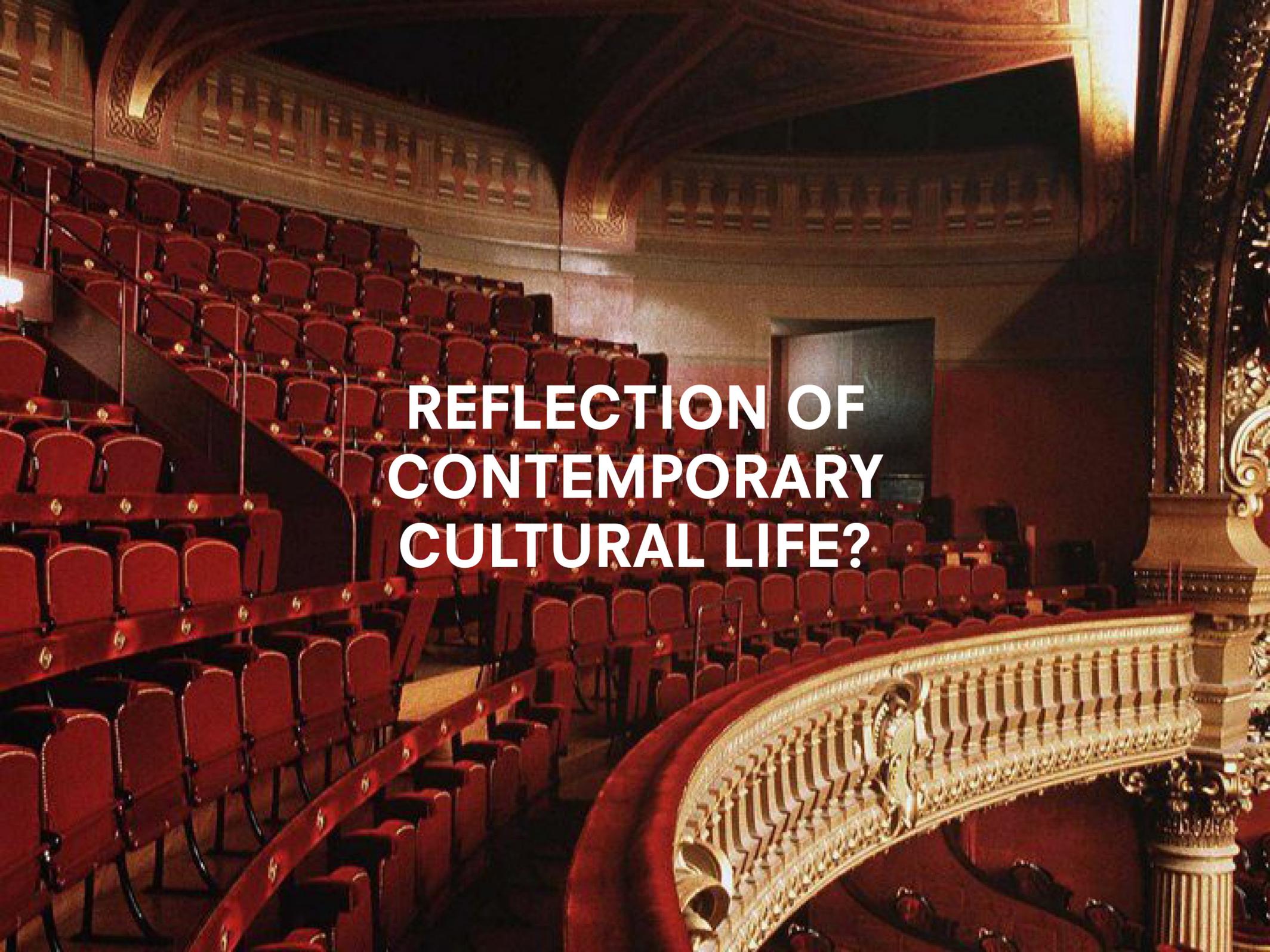
LOW ATTENDANCE RATES



SUBSIDISED SEATS

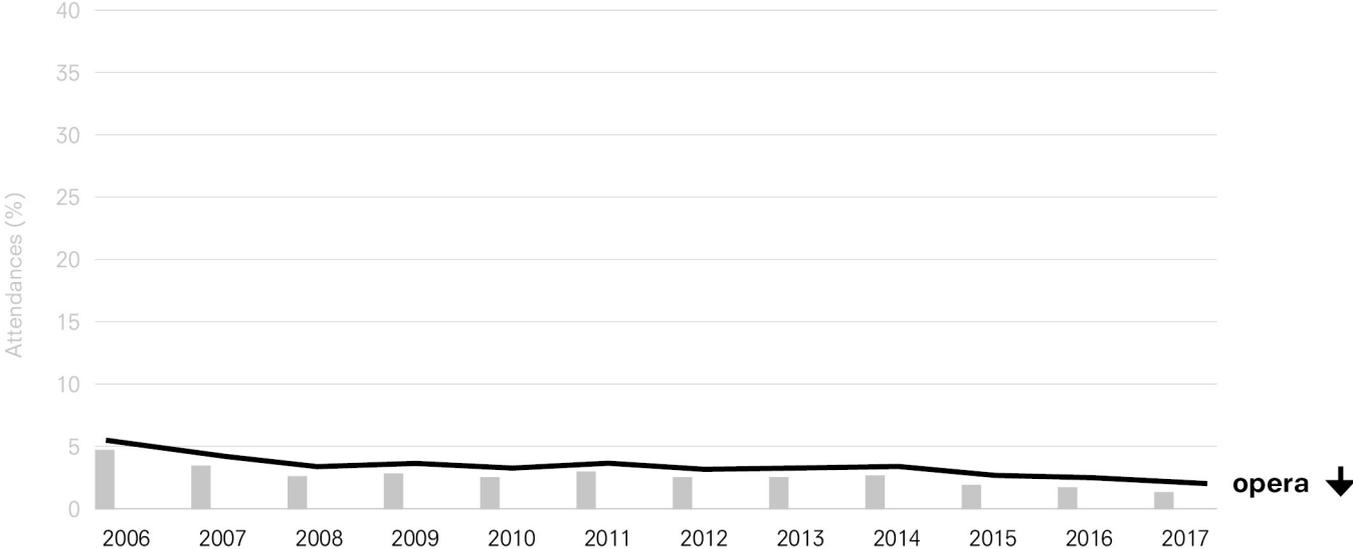


MONOTONOUS DEMOGRAPHICS

The image shows the interior of a grand, ornate theater. The seating area is filled with rows of plush, red upholstered seats, arranged in a semi-circular pattern. The theater's architecture is highly decorative, featuring intricate carvings and a balcony with a detailed, golden-colored railing. The lighting is warm and focused, highlighting the textures of the seats and the architectural details. The overall atmosphere is one of classic elegance and grandeur.

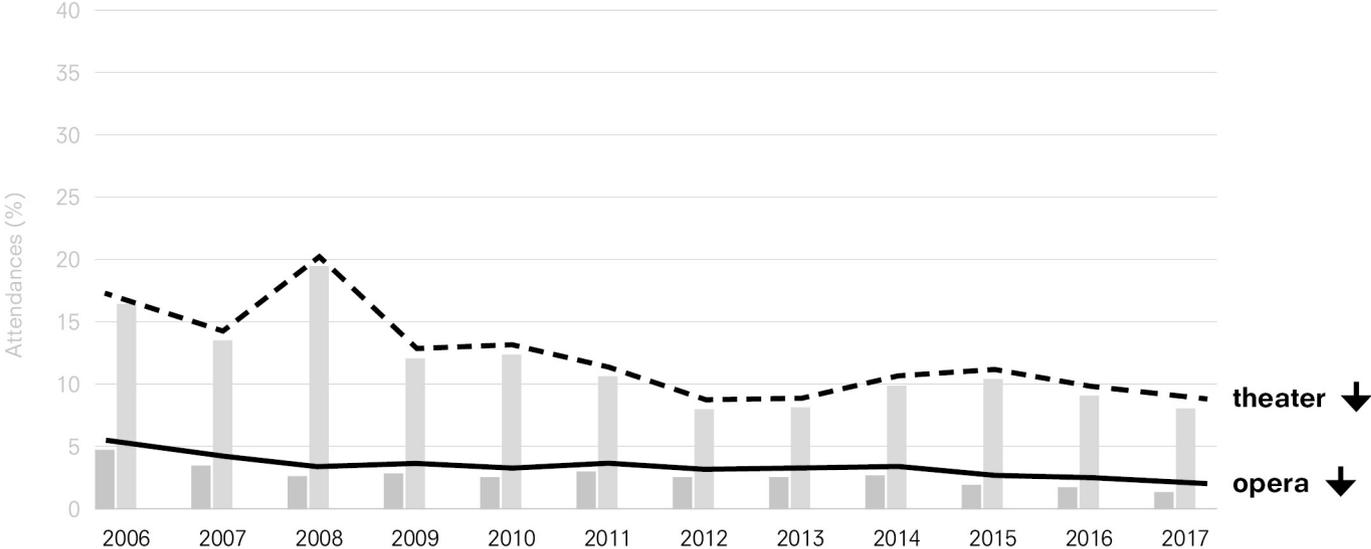
**REFLECTION OF
CONTEMPORARY
CULTURAL LIFE?**

ATTENDANCE RATES OF LIVE PERFORMANCES



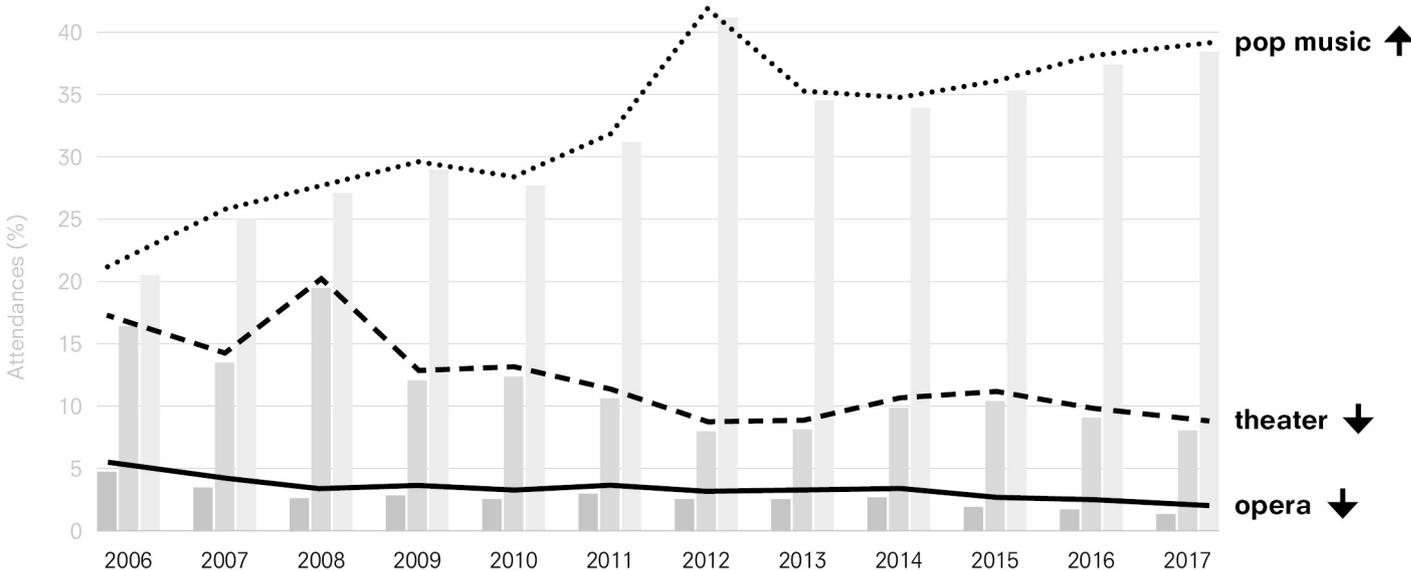
source: Evershed, N. (2020, March 26). *Opera ticket sales fall, but other live shows are more popular than ever*. The Guardian. <https://www.theguardian.com/news/datablog/2014/aug/20/opera-sales-fall-but-live-shows-more-popular>

ATTENDANCE RATES OF LIVE PERFORMANCES



source: Evershed, N. (2020, March 26). *Opera ticket sales fall, but other live shows are more popular than ever*. The Guardian. <https://www.theguardian.com/news/datablog/2014/aug/20/opera-sales-fall-but-live-shows-more-popular>

ATTENDANCE RATES OF LIVE PERFORMANCES



source: Evershed, N. (2020, March 26). *Opera ticket sales fall, but other live shows are more popular than ever*. The Guardian. <https://www.theguardian.com/news/datablog/2014/aug/20/opera-sales-fall-but-live-shows-more-popular>







ABUNNE



SEAT ARCHITECTURE



VISUAL LIMITS



AURAL LIMITS



INTIMACY



IMMEDIACY



AUDIENCE COHESION







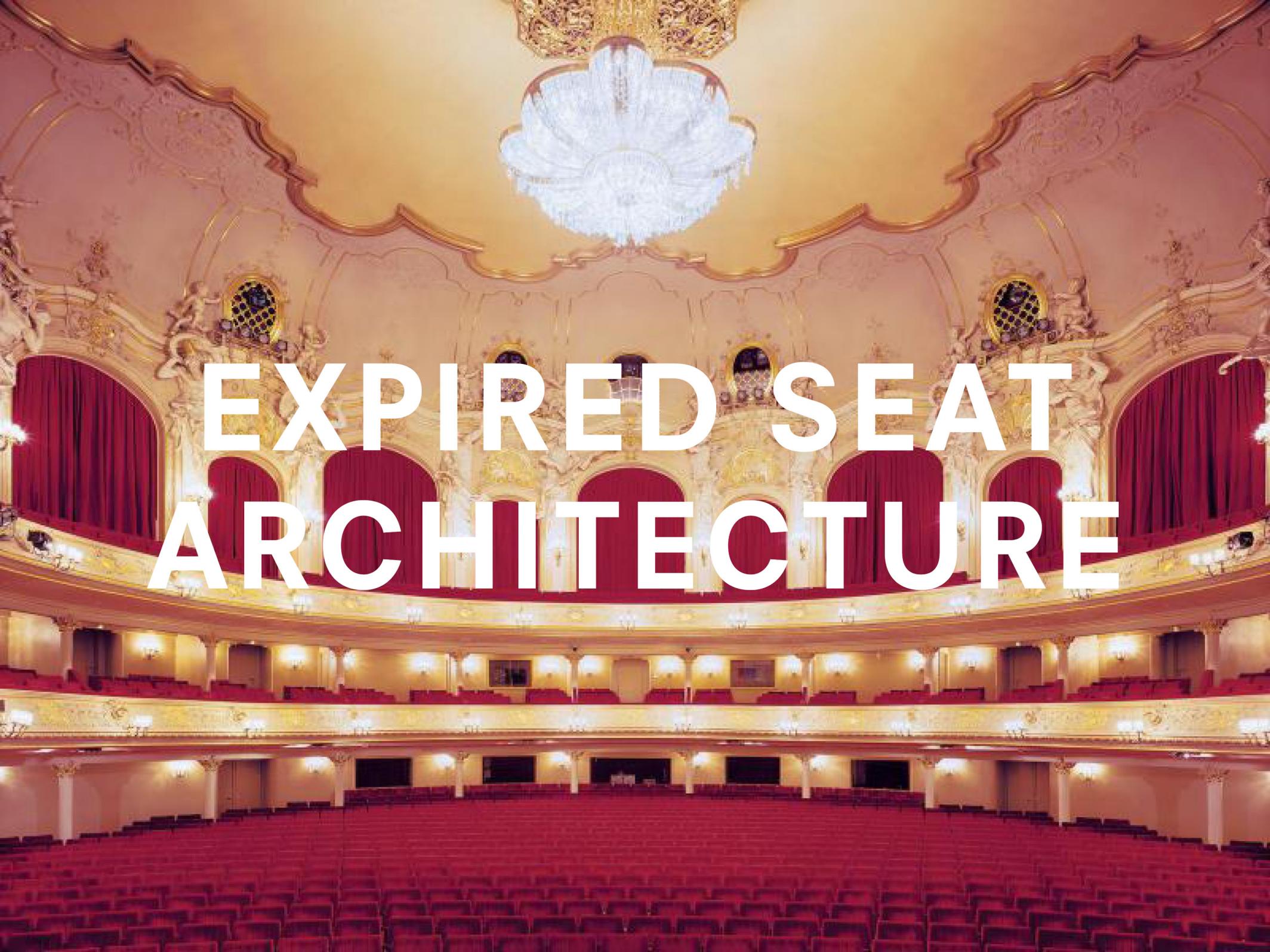






**PASSIVE PERCEPTION OF
PERFORMANCE**



The image shows the interior of a grand, ornate theater. The ceiling is highly decorated with a large, multi-tiered chandelier hanging from the center. The walls are covered in intricate carvings and sculptures, with several arched niches containing busts. The theater is filled with rows of red seats, and the stage area is visible in the distance. The overall atmosphere is one of classical elegance and grandeur.

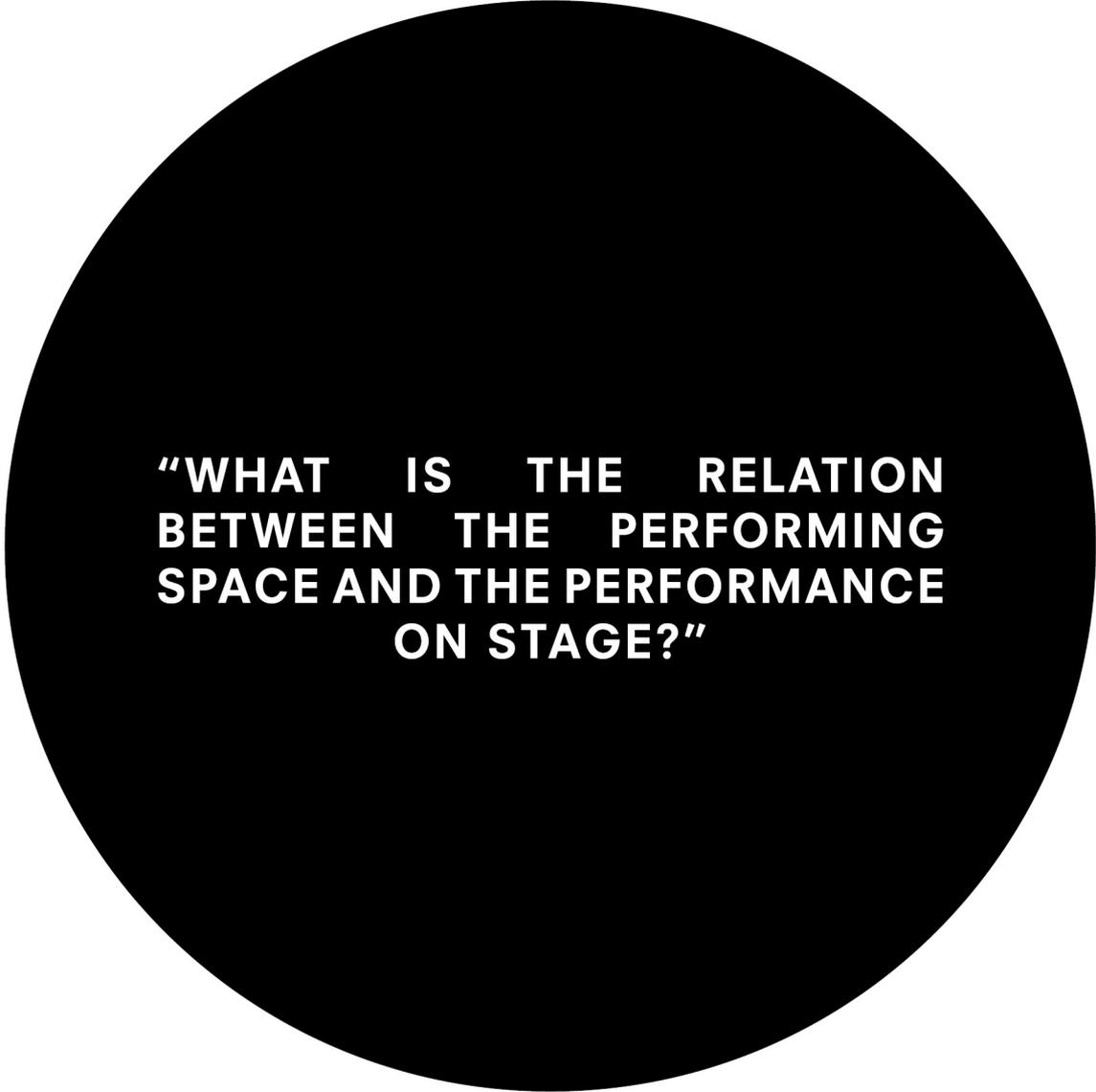
EXPIRED SEAT ARCHITECTURE



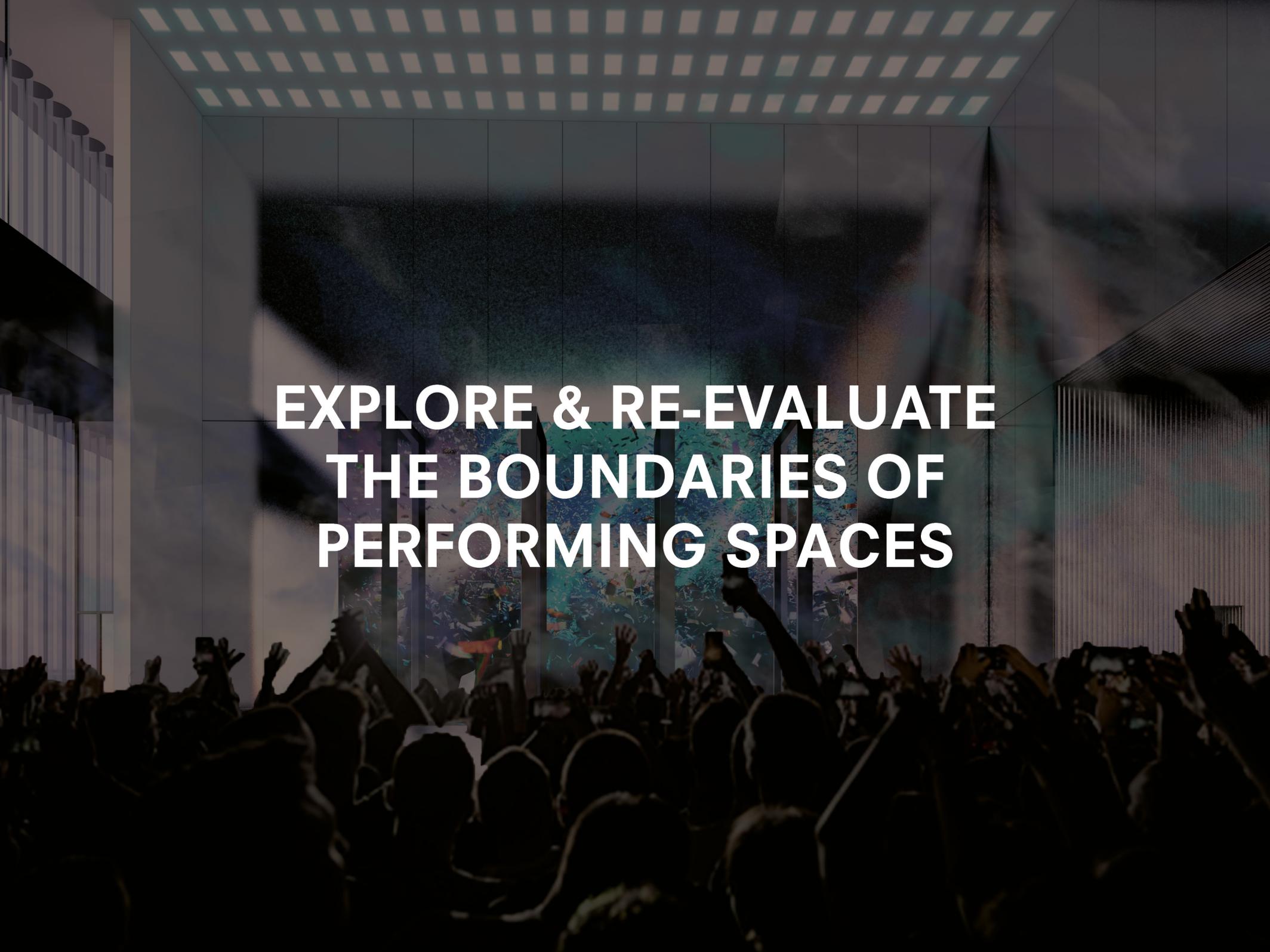
TRADITIONAL SEAT



CONCEPTUAL SEAT



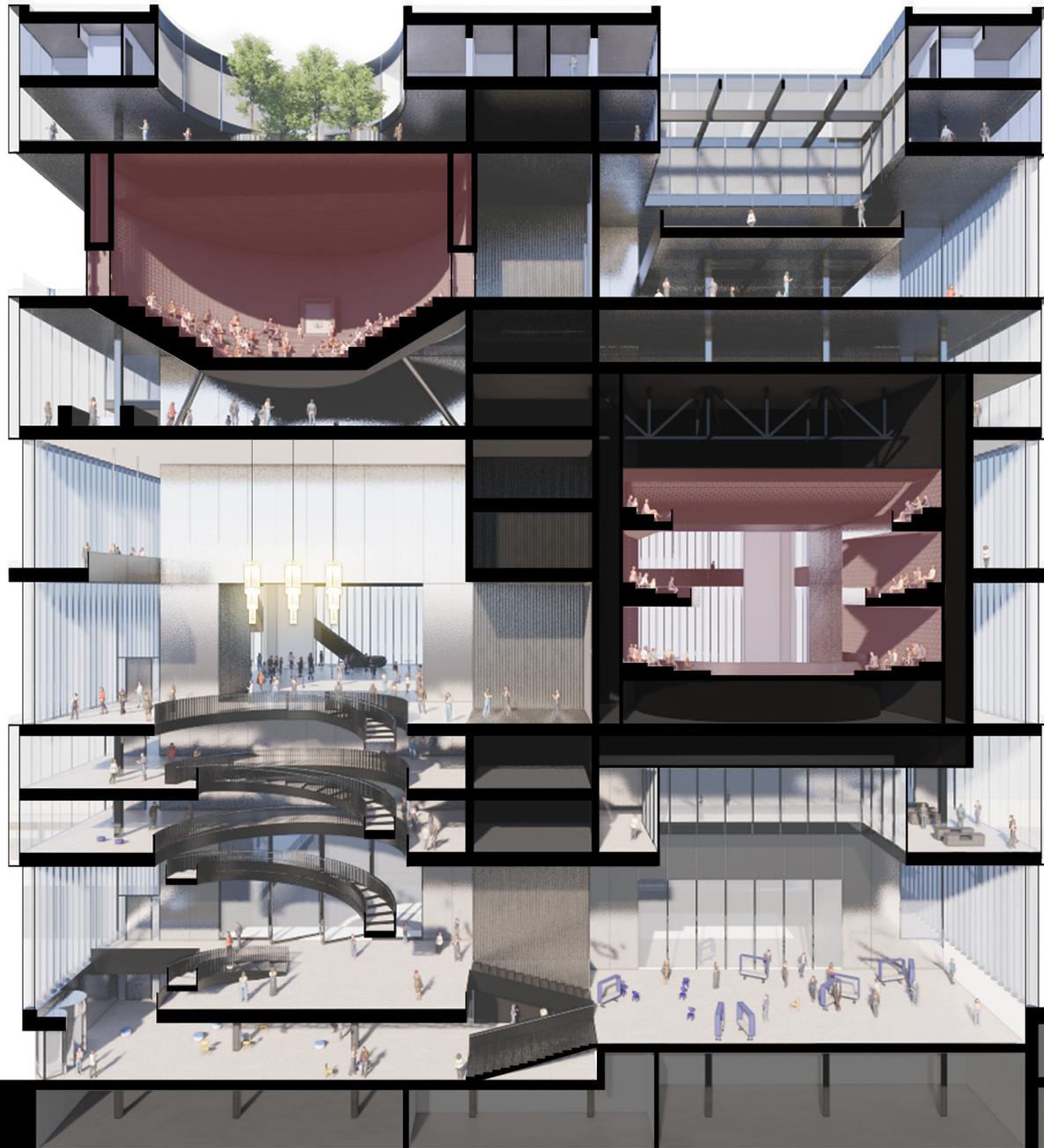
**“WHAT IS THE RELATION
BETWEEN THE PERFORMING
SPACE AND THE PERFORMANCE
ON STAGE?”**

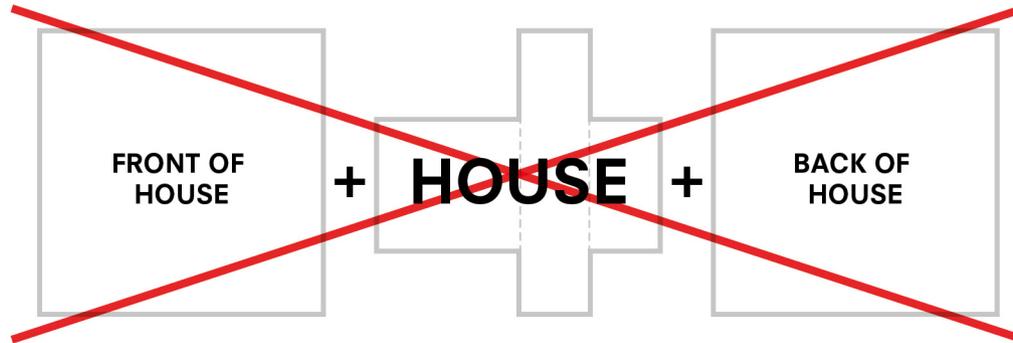
The image depicts a modern architectural interior, likely a performance space or a large hall. In the foreground, a large crowd of people is silhouetted against the light, with many of their arms raised, suggesting an audience at a concert or event. The background features a large, brightly lit stage area with a wall of colorful, abstract, and textured panels. The ceiling is a grid of recessed lighting fixtures, and the overall atmosphere is dynamic and contemporary.

**EXPLORE & RE-EVALUATE
THE BOUNDARIES OF
PERFORMING SPACES**











~~EXPLORE & RE-EVALUATE~~ **PUSHING
THE BOUNDARIES OF
PERFORMING SPACES!**





art installations



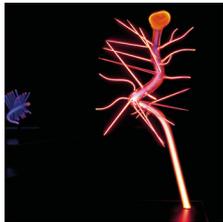
photography



electronic arts



video & media



sculpture



readings



film screenings



architecture



conferences



performance art



music concerts



dance

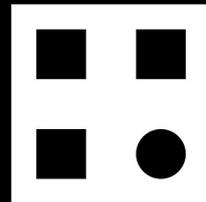


opera



theater





DESIGN BRIEF



WORLD
global scale



EUROPE
continent scale



GERMANY
national scale



BERLIN
city scale











Deutsche Oper

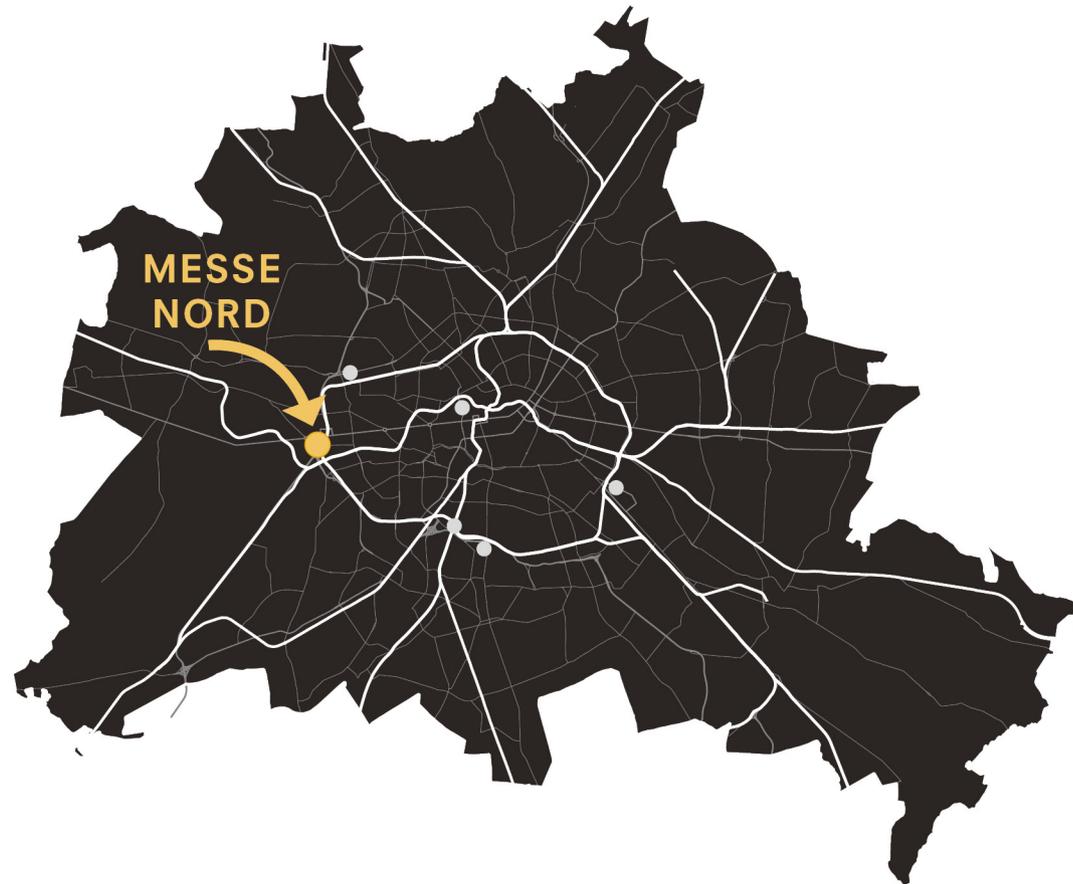


Komische Oper

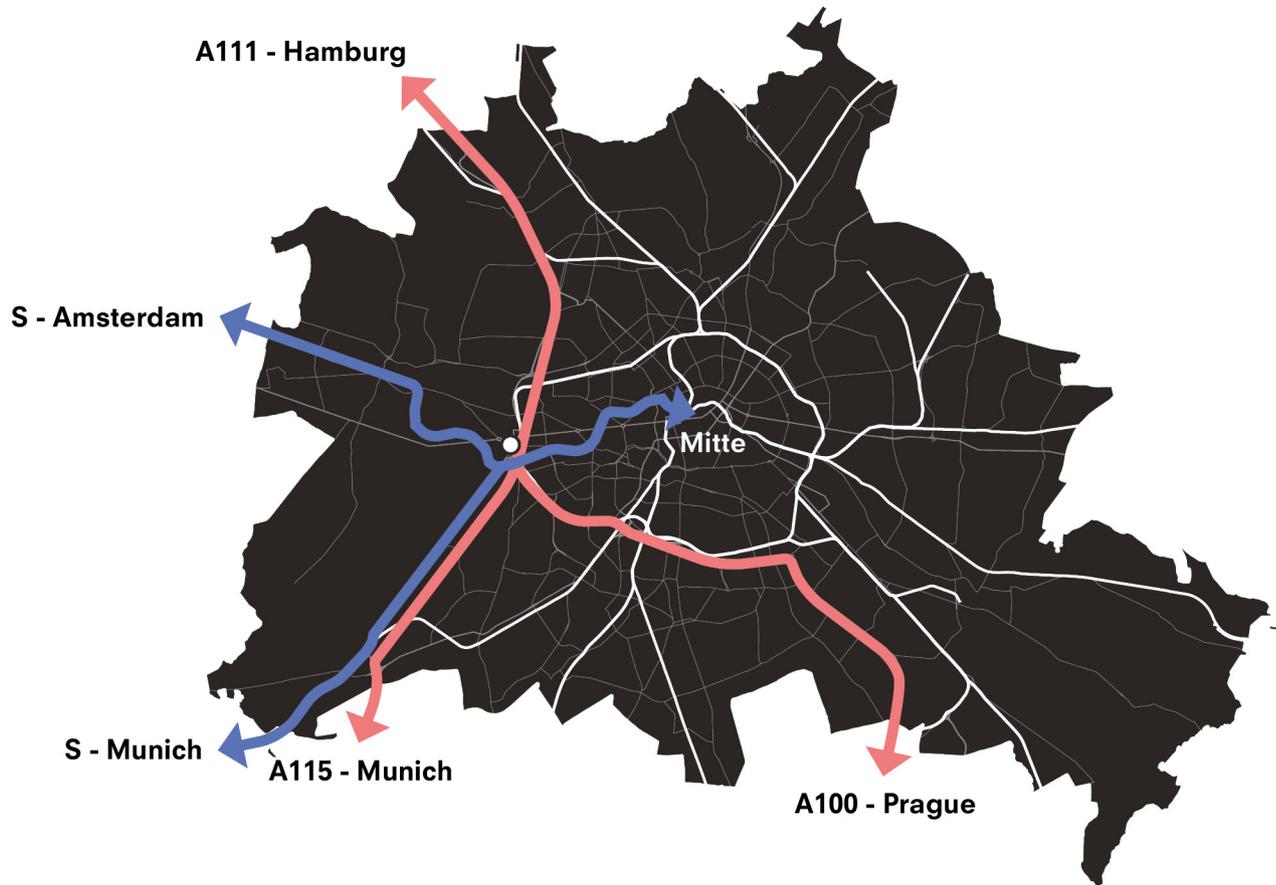


Staatsoper

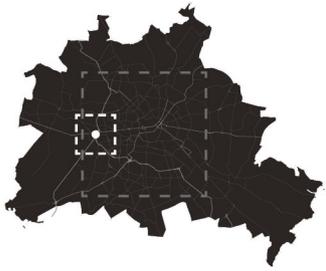


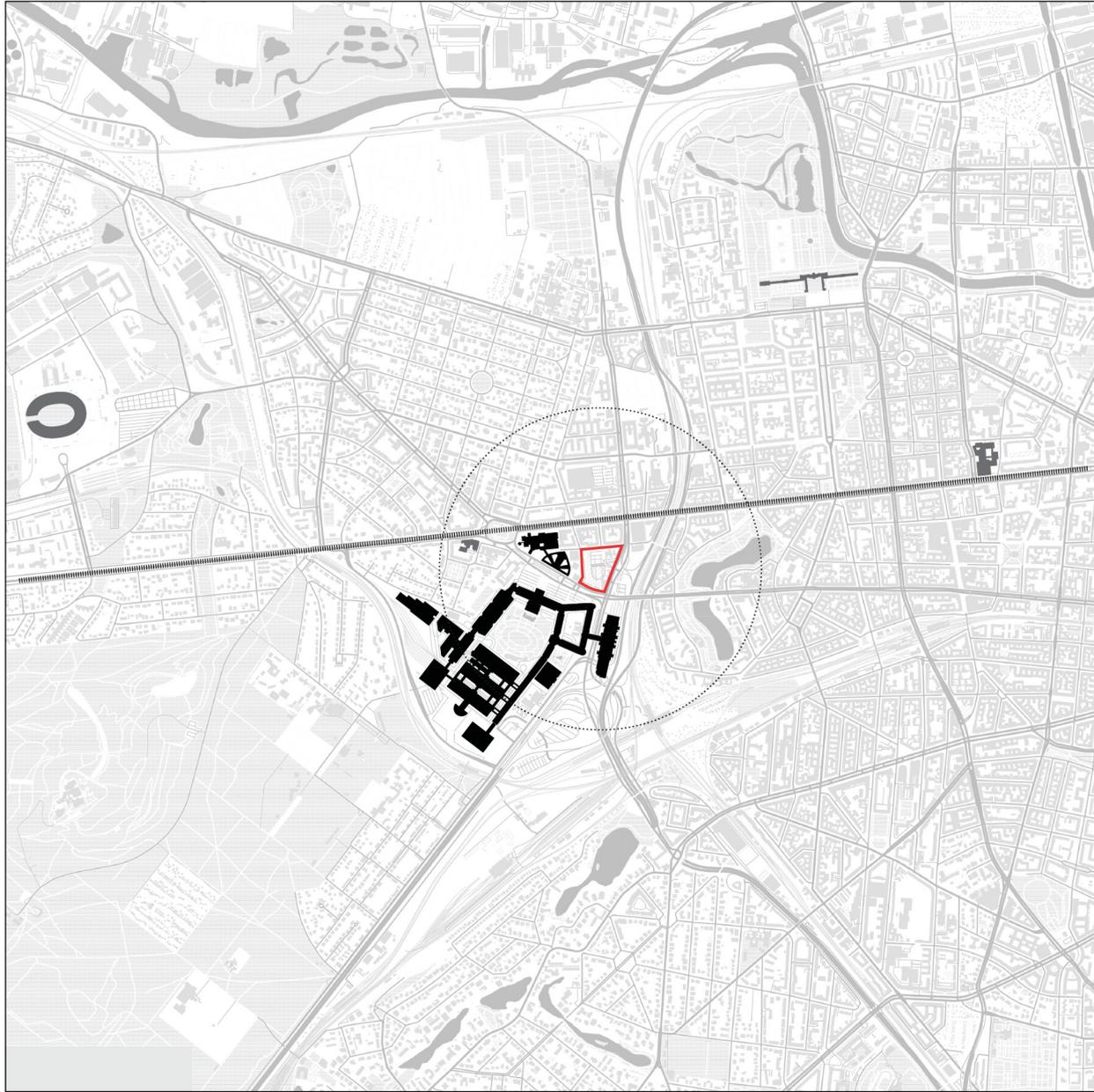
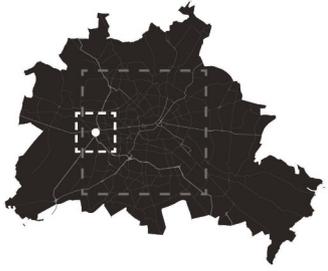










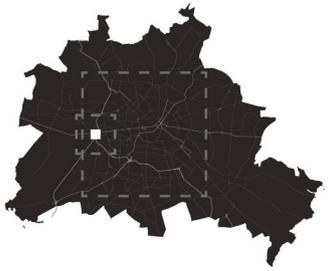


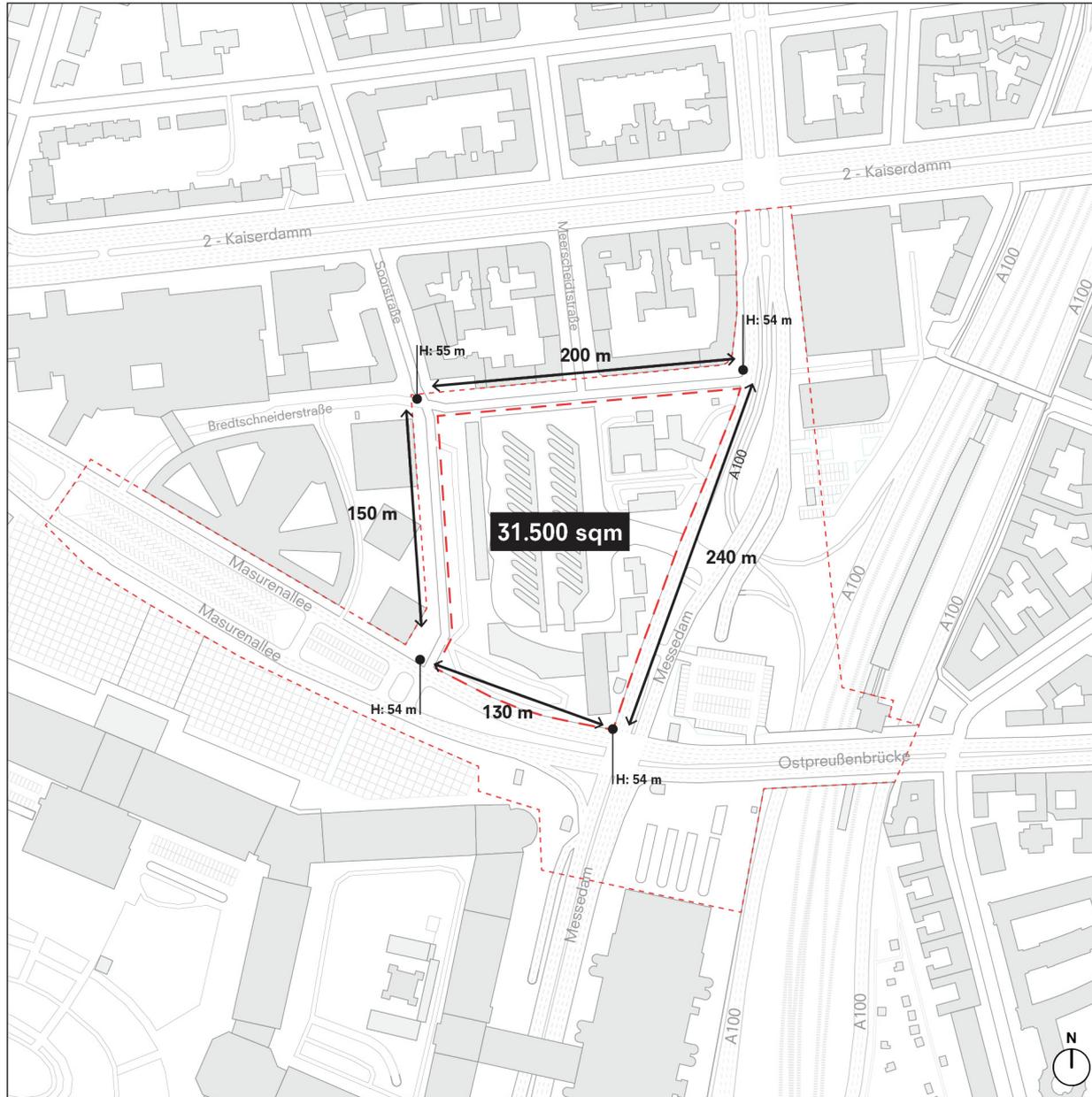
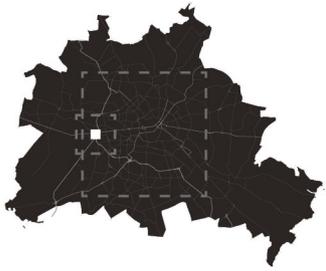


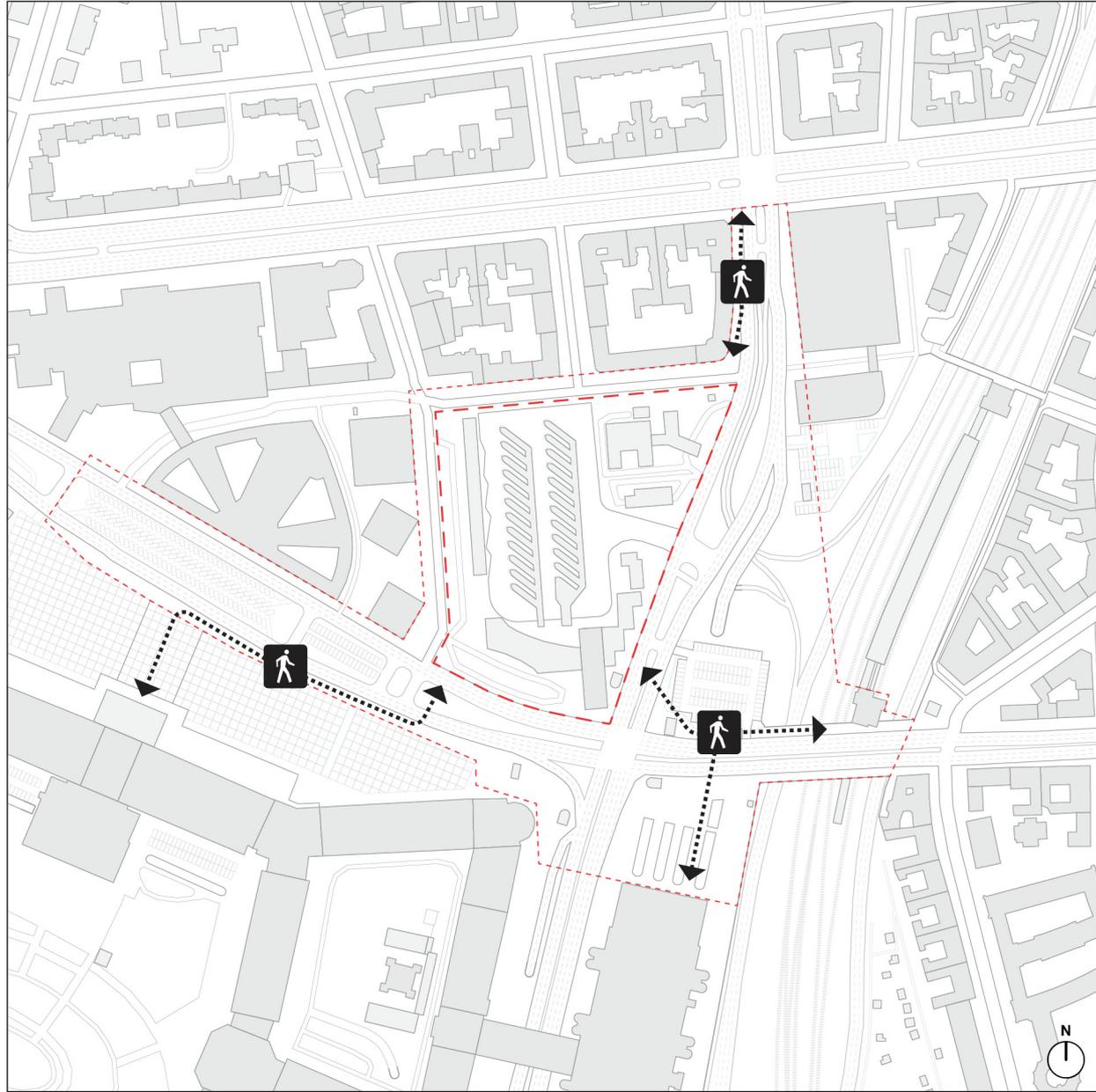
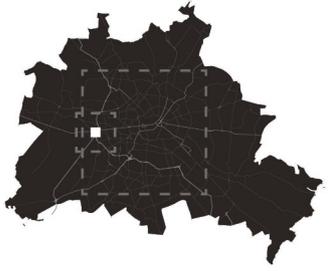


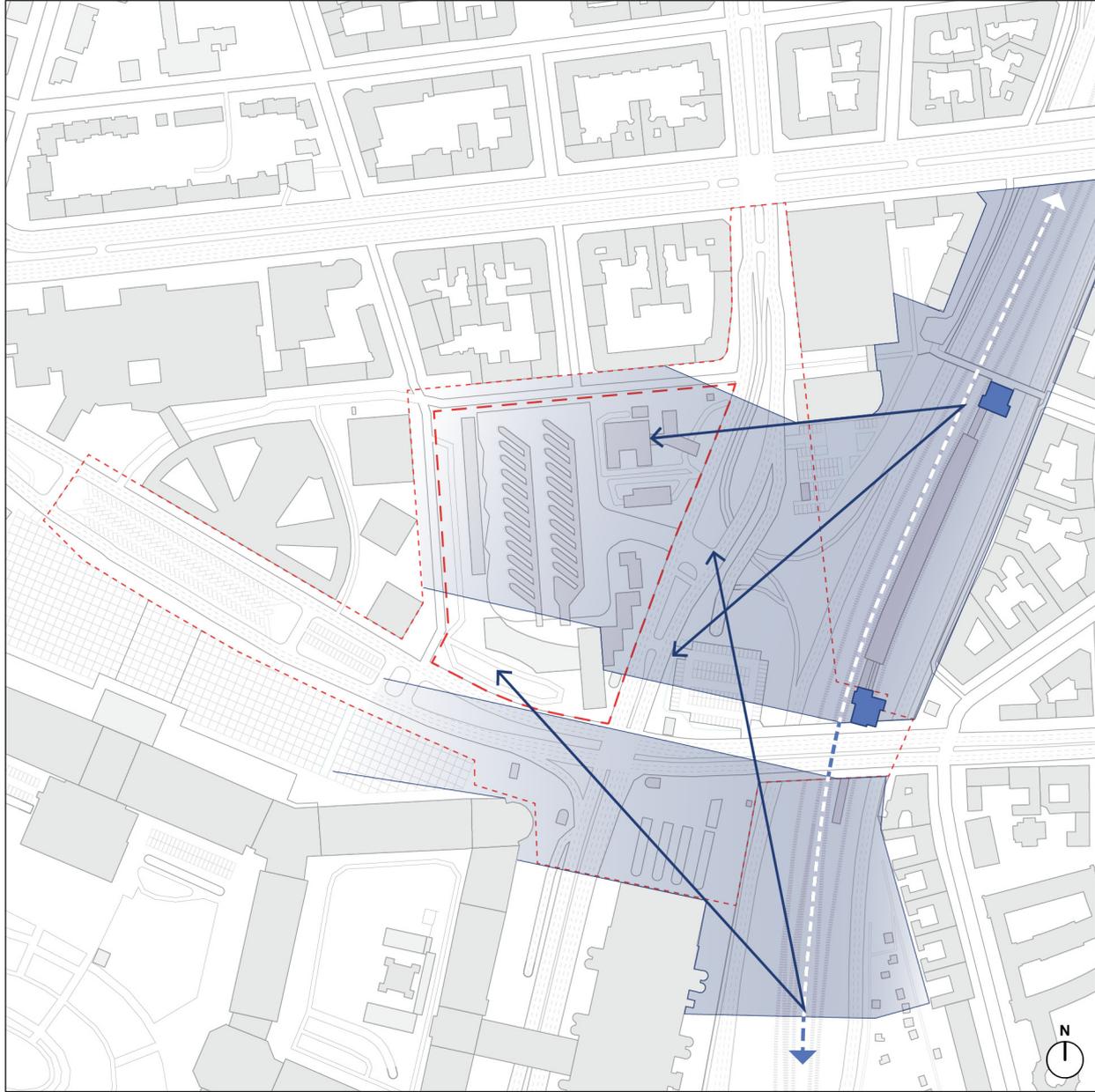




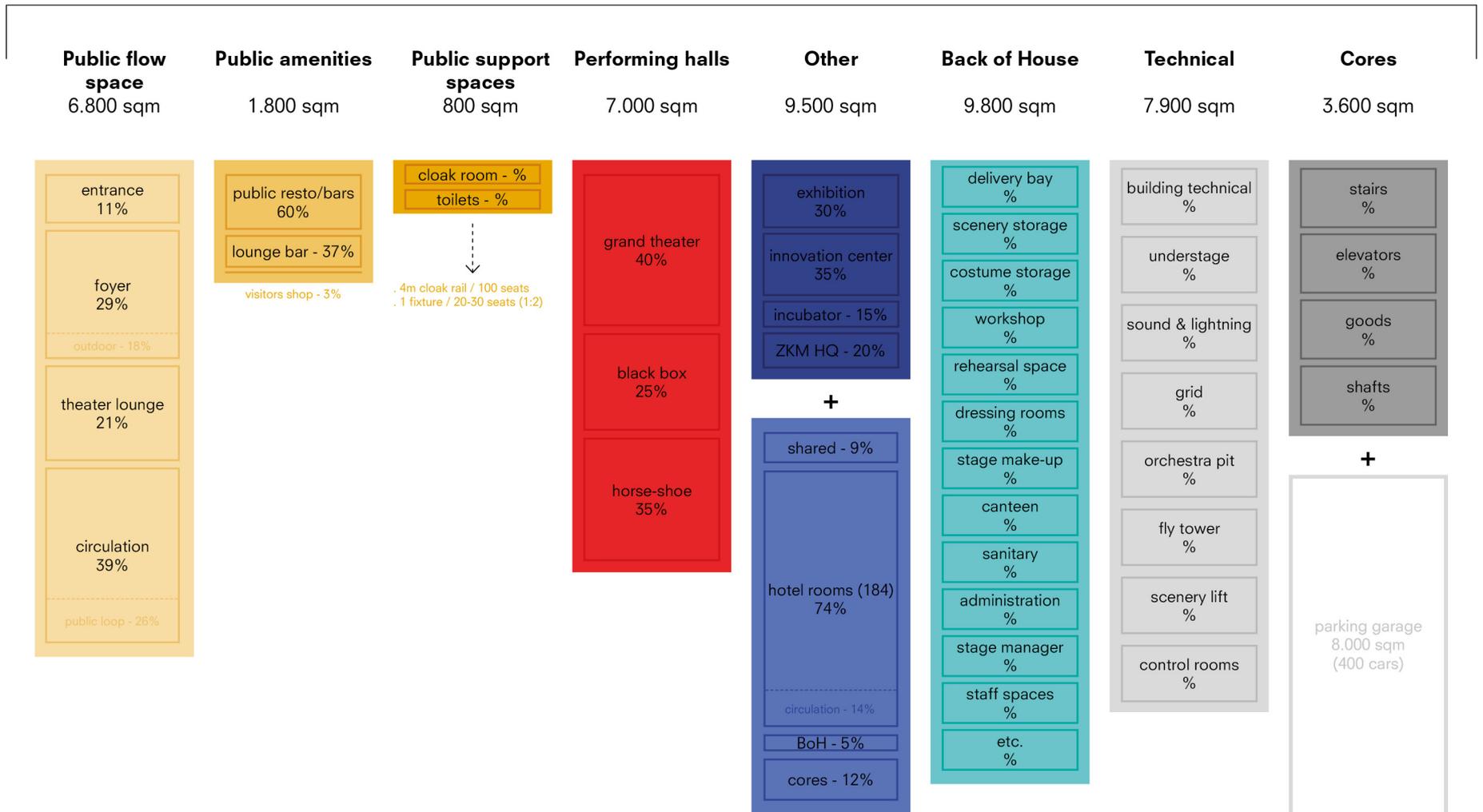






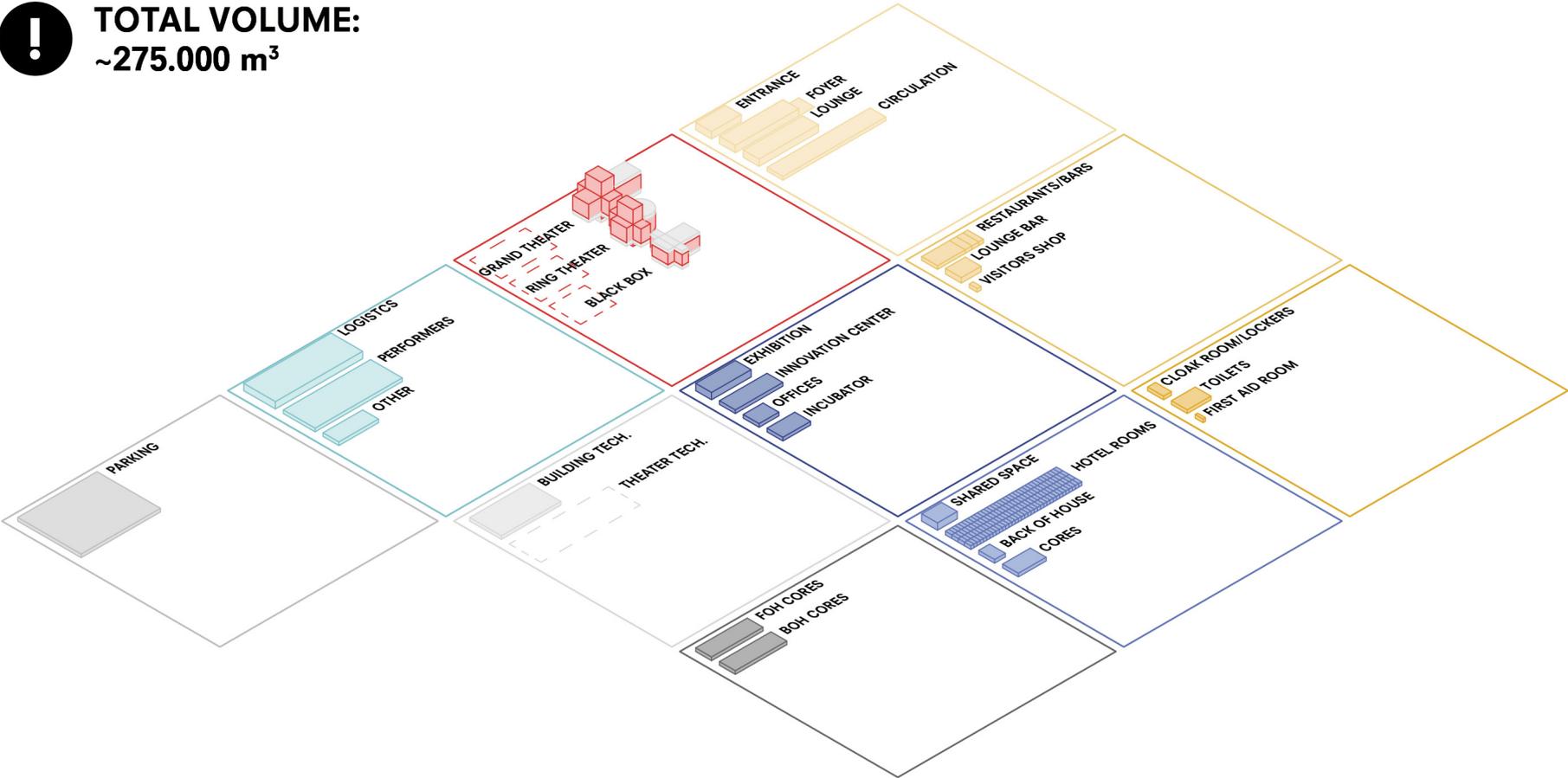


TOTAL GROSS SIZE:
47.200 sqm (55.200)



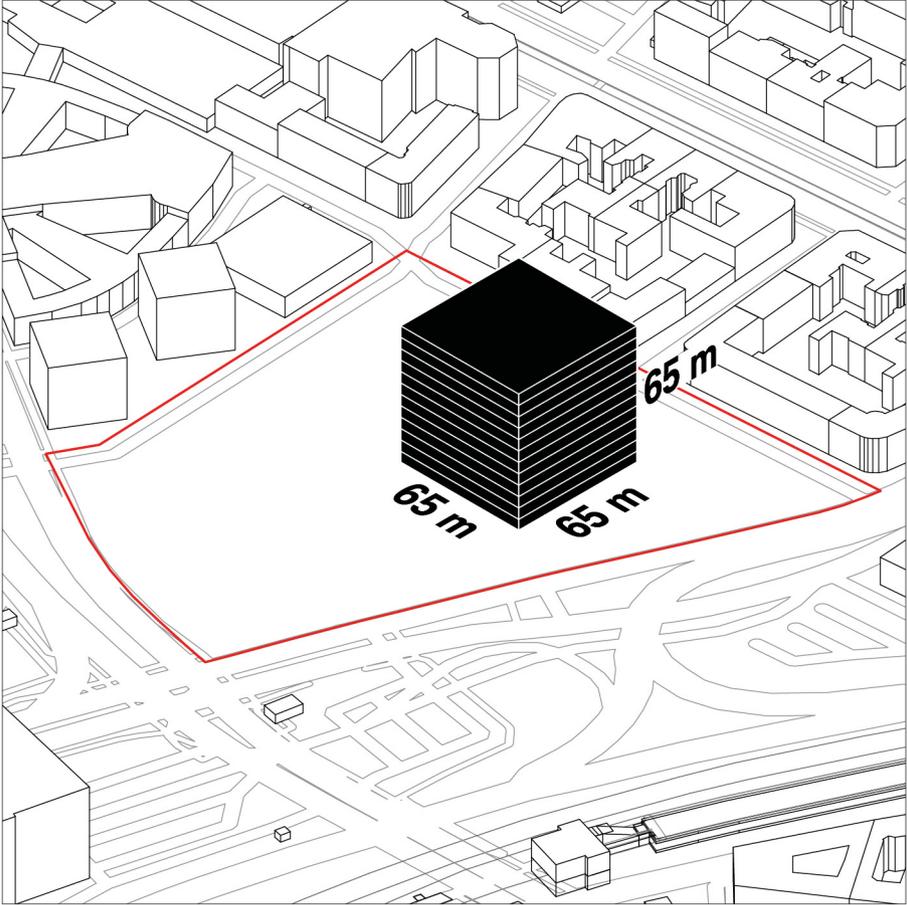


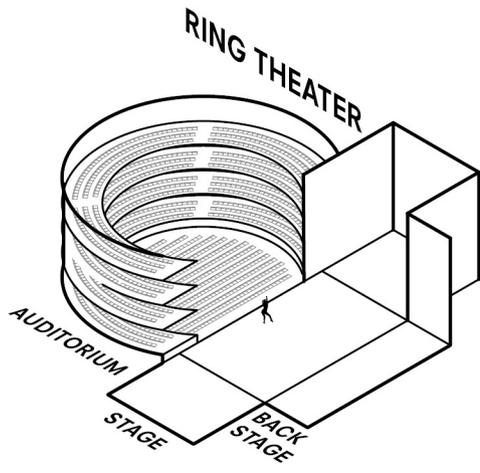
TOTAL VOLUME:
~275.000 m³



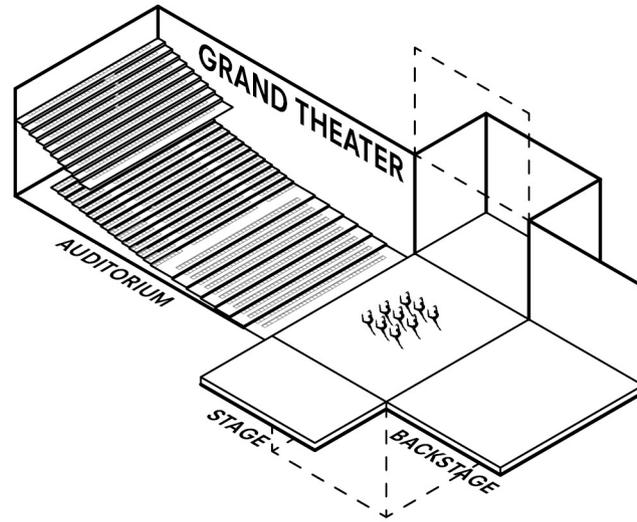


TOTAL VOLUME:
~275.000 m³

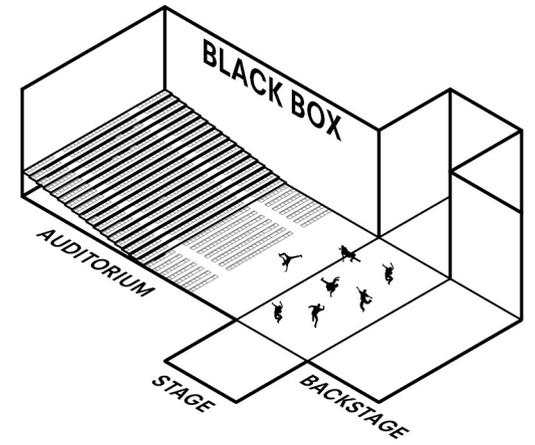




&



&





BUILDING DEMAND
multi-purpose performance spaces



BODY DEMAND
audience-performance relationship



BUILDING DEMAND
multi-purpose performance spaces



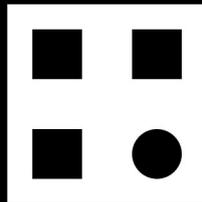
GENERIC



BODY DEMAND
audience-performance relationship

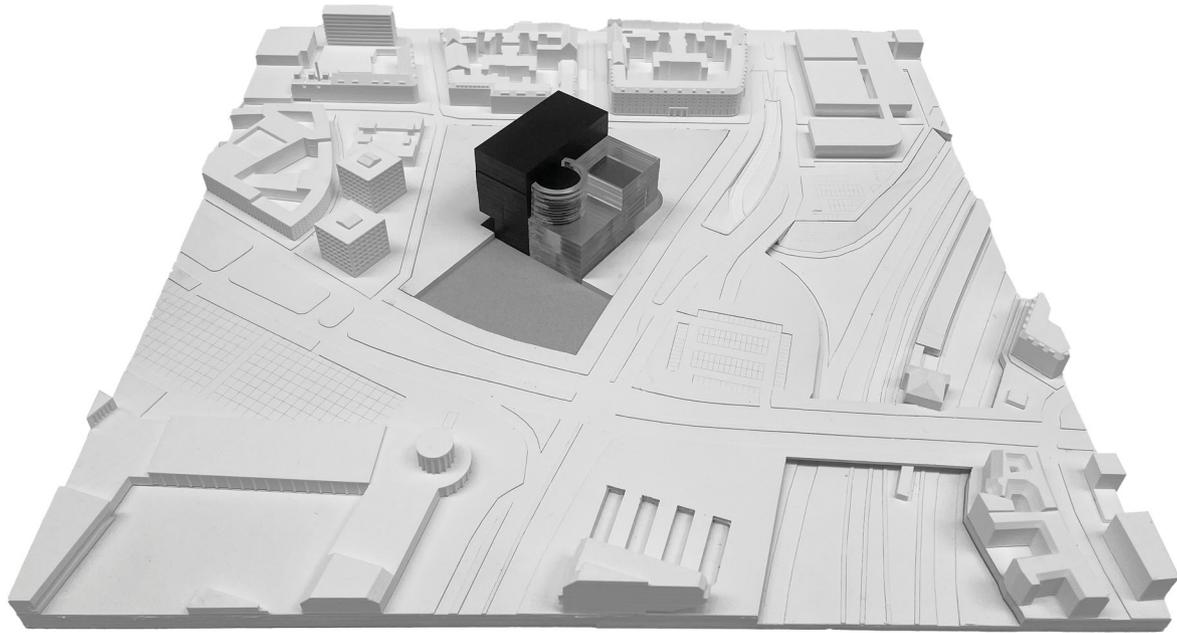


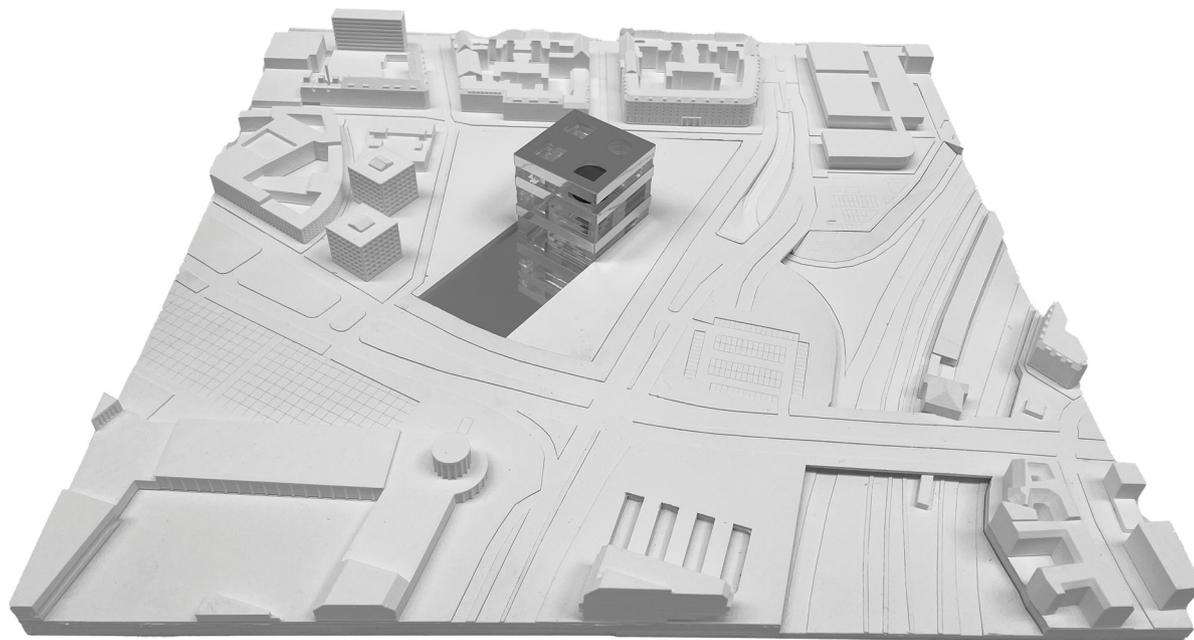
SPECIFIC



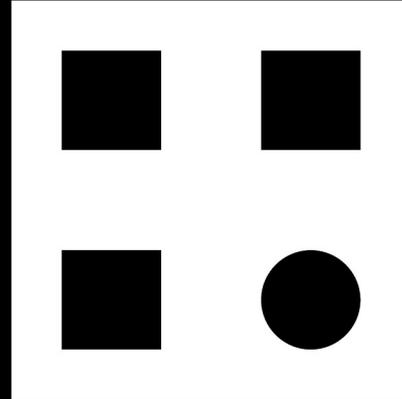
CONCEPT







MESSE PERFORMANCE CUBE





The focus of the project on the relation between performing spaces and the performance resulted in questioning the need for designated performing spaces...





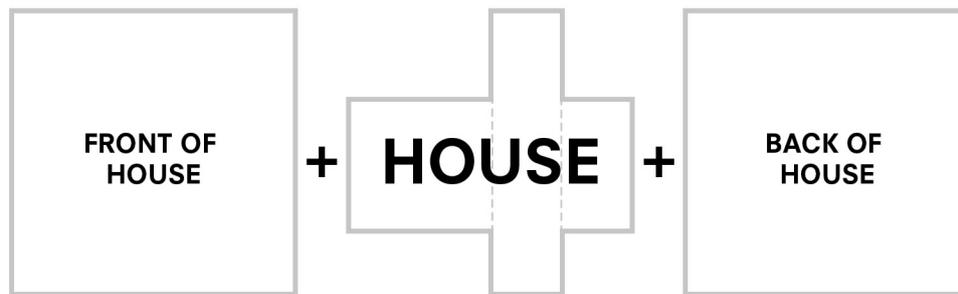
WHAT IF...



**...THE ENTIRE BUILDING COULD BE
PERCEIVED AS ONE PERFORMANCE
SPACE...**

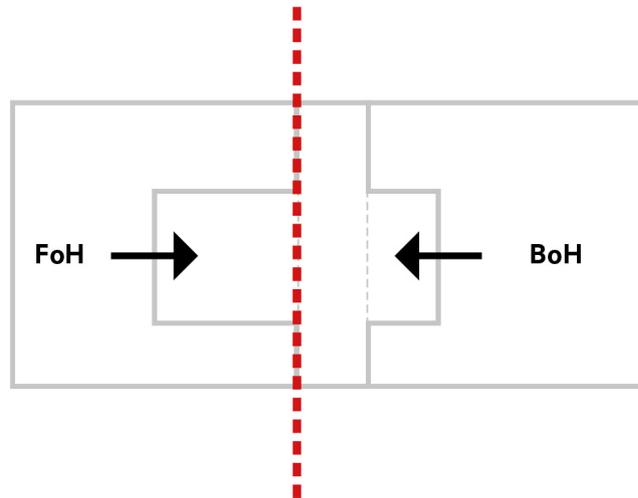


**...RATHER THAN HAVING DISTINCT
AREAS SOLELY DEDICATED TO
PERFORMANCES**



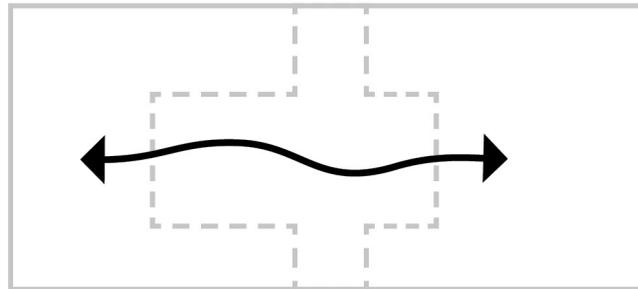
TYPICAL THEATER

organisation typically found in conventional theaters



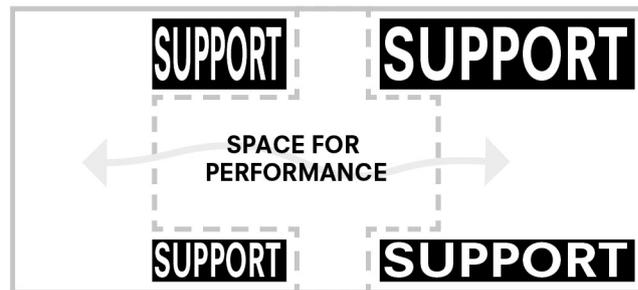
TYPICAL THEATER

strict separation between front-of-house, house & back-of-house



EVOLUTION OF THEATER

deviating from the traditional organisation by challenging the strict separation



EVOLUTION OF THEATER

making a distinction between space for performance and support

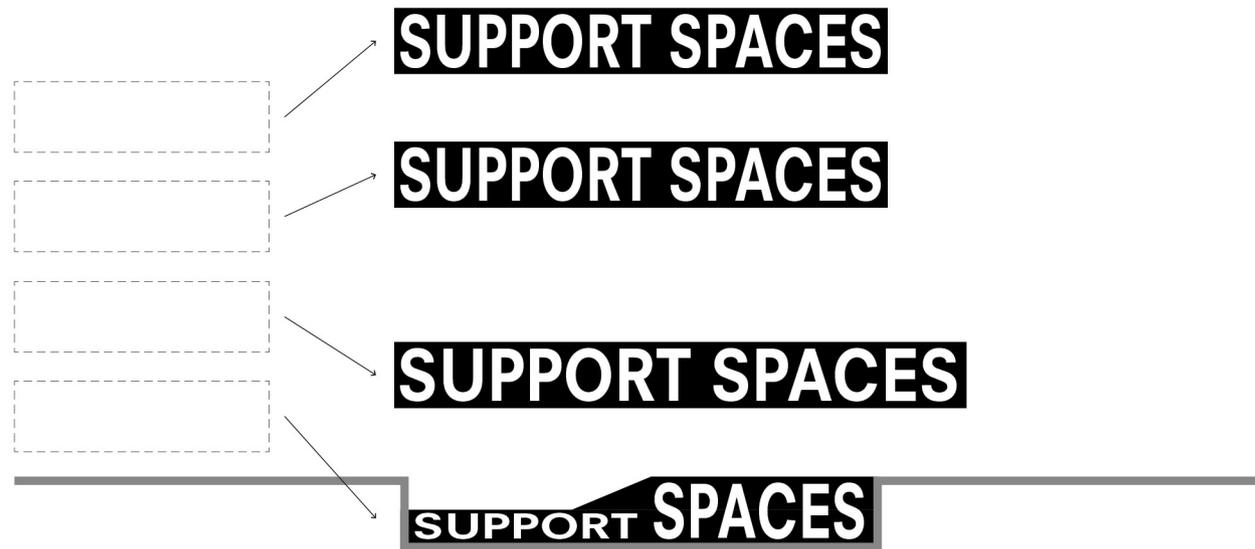
MESSE PERFORMANCE CUBE

SUPPORT
SUPPORT
SUPPORT
SUPPORT



NEW APPROACH
support spaces projected on site

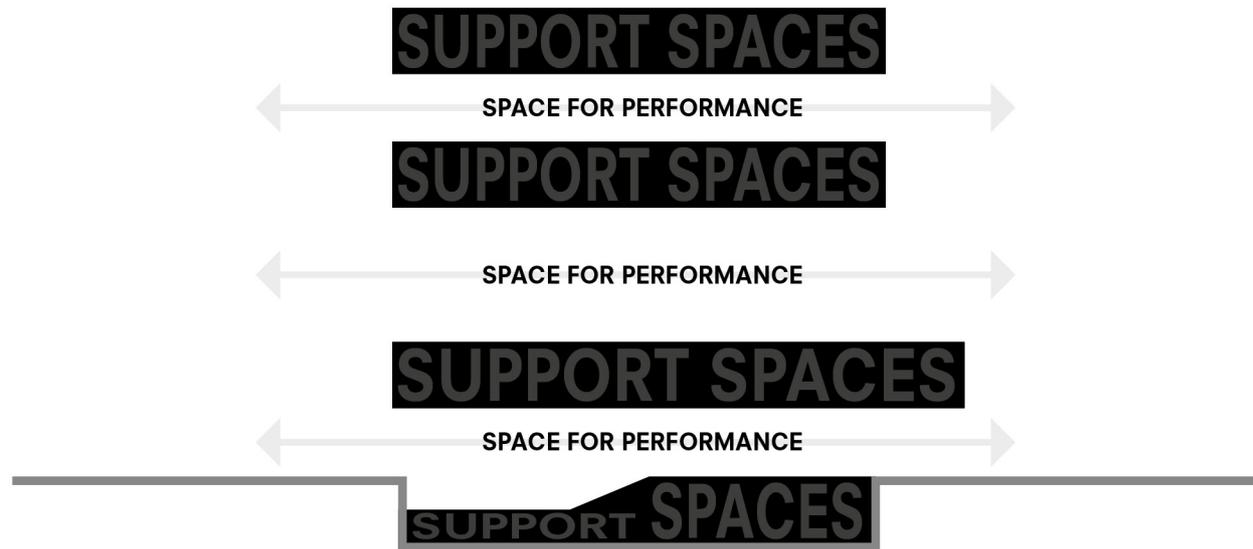
MESSE PERFORMANCE CUBE



ORGANISING PRINCIPLE

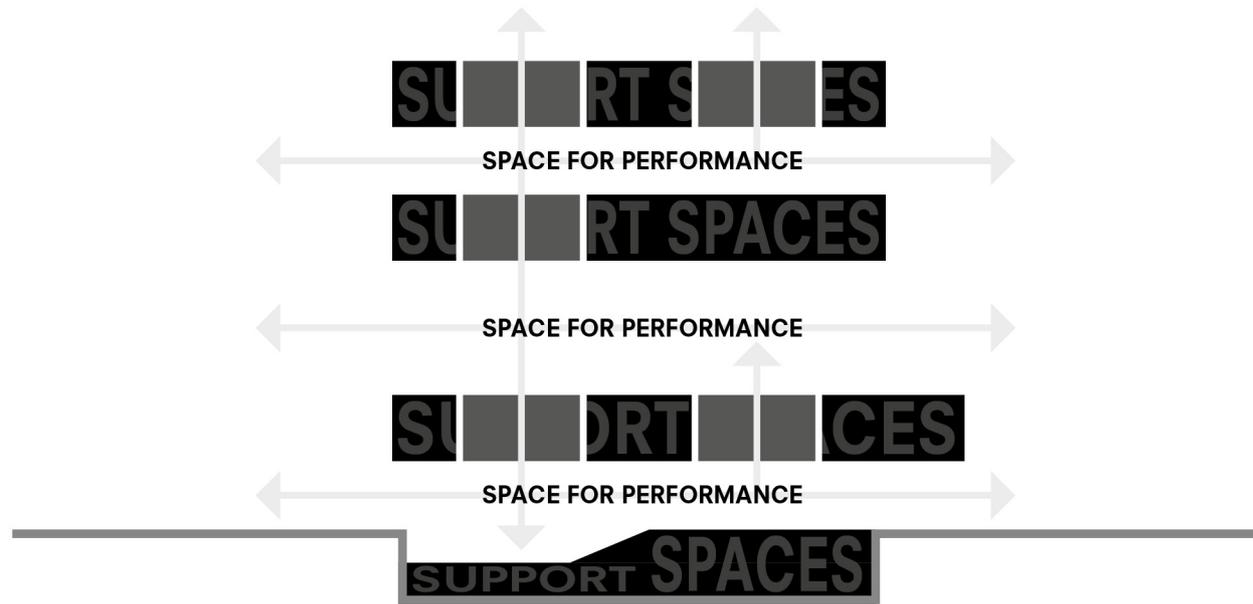
support spaces evenly distributed over cube

MESSE PERFORMANCE CUBE

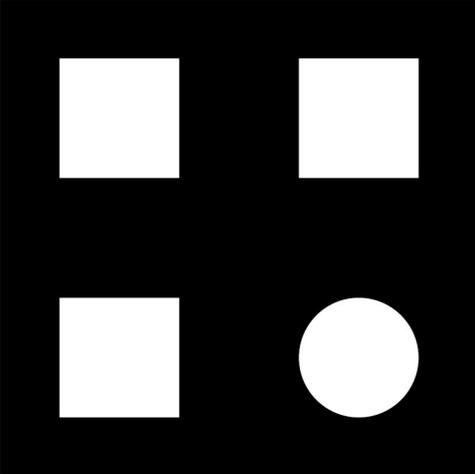


SPACE FOR PERFORMANCE
horizontal network of performance spaces

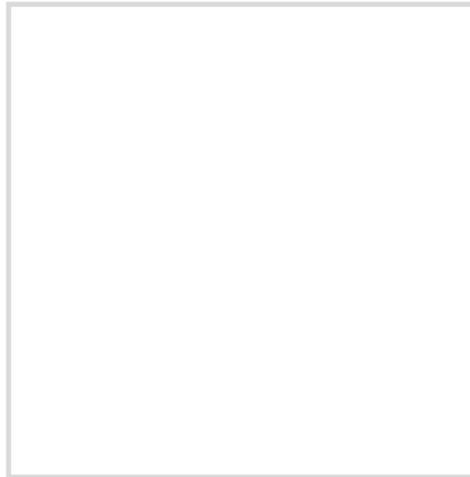
MESSE PERFORMANCE CUBE



SPACE FOR PERFORMANCE
vertical network of performance spaces



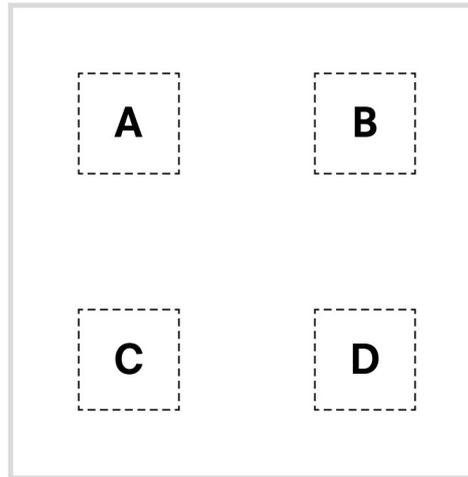
MESSE PERFORMANCE CUBE



BUILDING OUTLINE

building outline of Messe Performance Cube

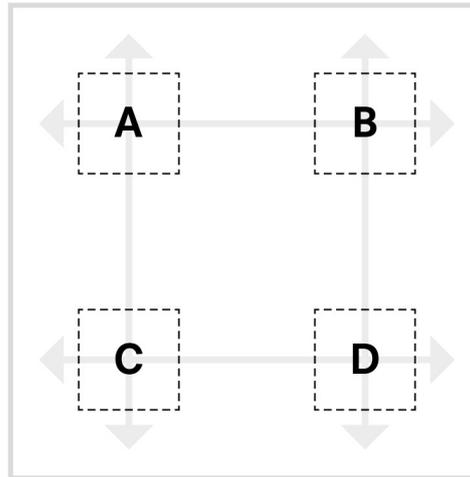
MESSE PERFORMANCE CUBE



PLUG-INS

regarding the performance spaces as plug-ins

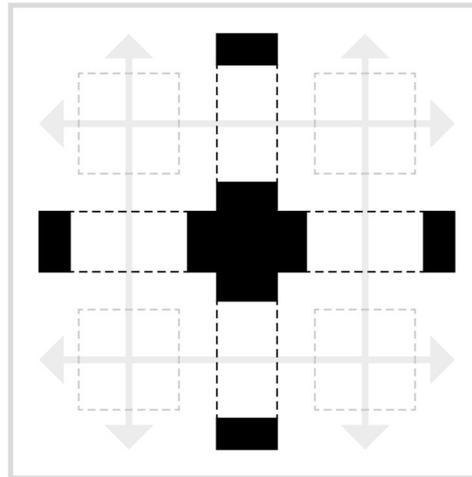
MESSE PERFORMANCE CUBE



NETWORK FOR PERFORMANCE

connecting these plug-ins leads to a network for performance

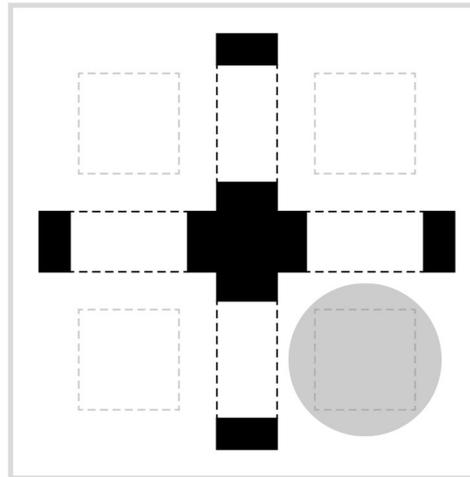
MESSE PERFORMANCE CUBE



ROBUST STRUCTURE

resulting in a robust structure that can accommodate countless forms of performances

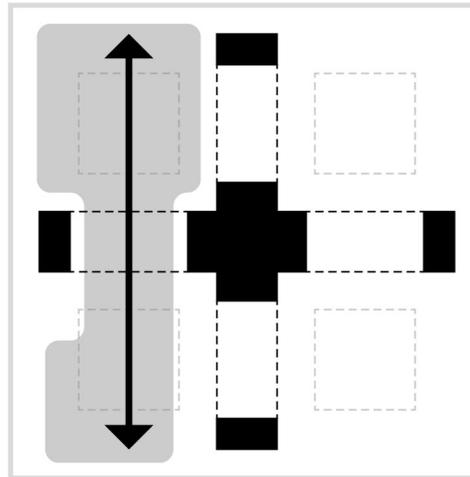
MESSE PERFORMANCE CUBE



ROBUST STRUCTURE

resulting in a robust structure that can accommodate countless forms of performances

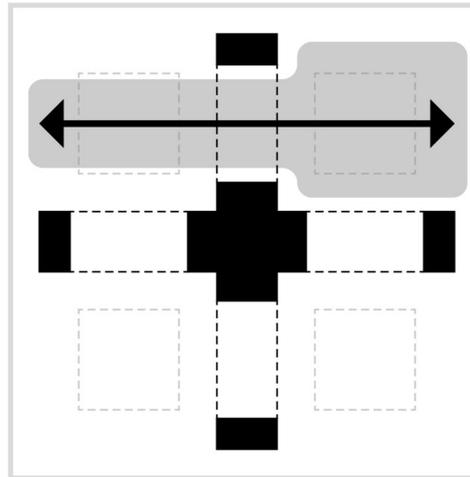
MESSE PERFORMANCE CUBE



ROBUST STRUCTURE

resulting in a robust structure that can accommodate countless forms of performances

MESSE PERFORMANCE CUBE

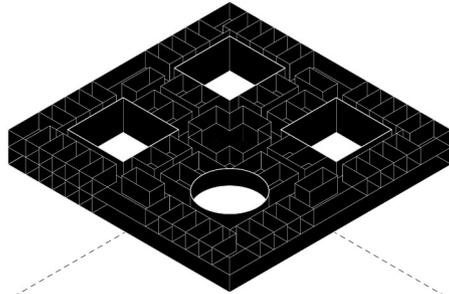


ROBUST STRUCTURE

resulting in a robust structure that can accommodate countless forms of performances

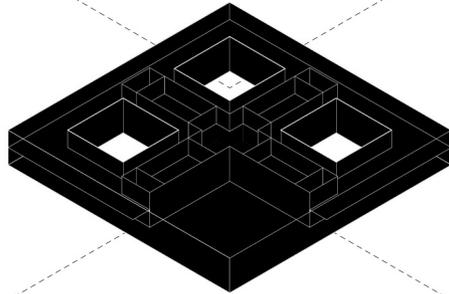
L12/L13 SUPPORT SPACES

rooftop bar
hotel lobby
hotel rooms
technical space



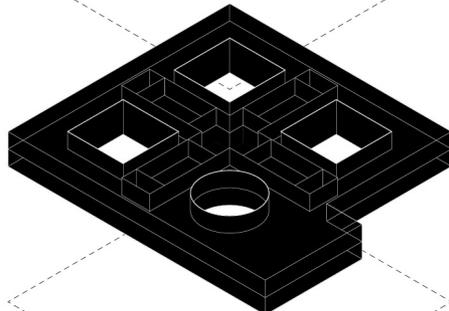
L08/L09 SUPPORT SPACES

arena lobby
management
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage
vocal/instr. rehearsal



L02/L03 SUPPORT SPACES

bar/restaurant
offices
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage



L12/L13 SUPPORT SPACES

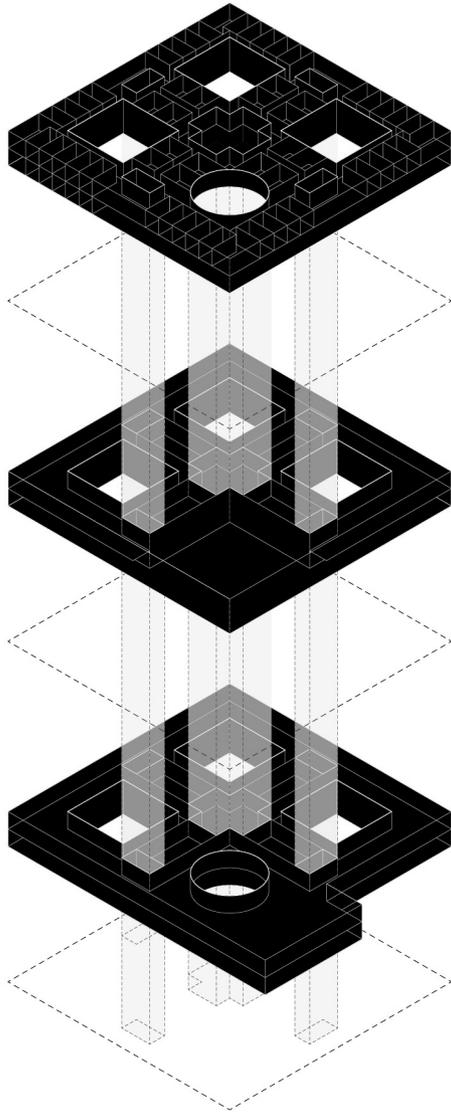
rooftop bar
hotel lobby
hotel rooms
technical space

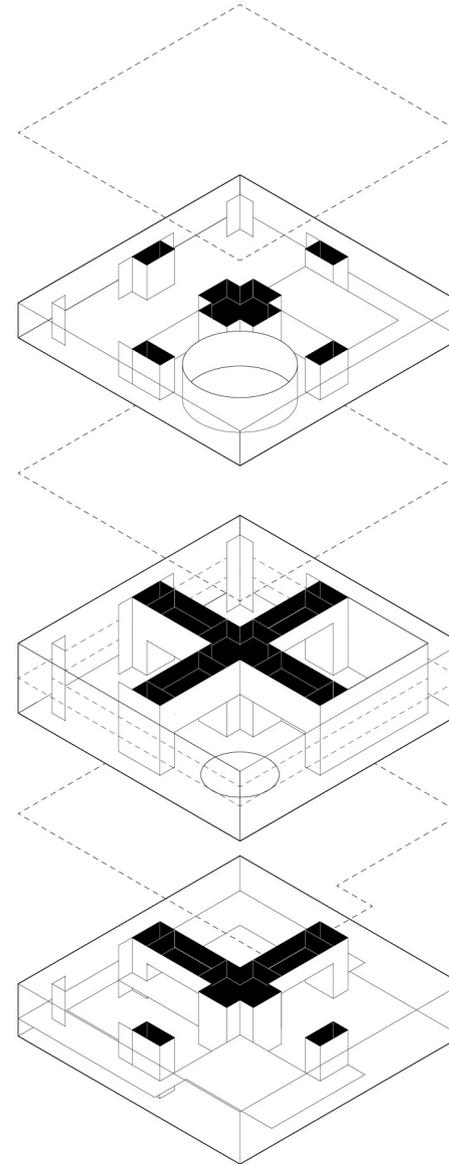
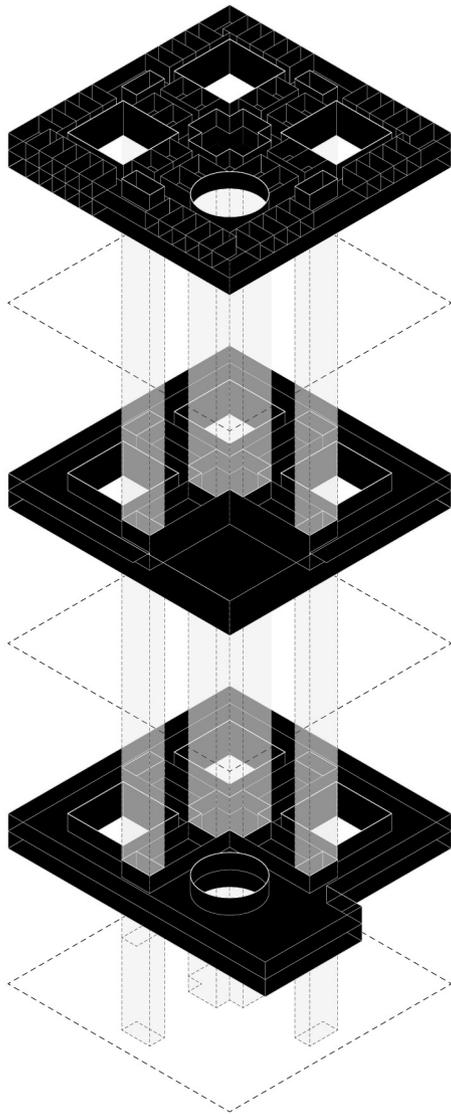
L08/L09 SUPPORT SPACES

arena lobby
management
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage
vocal/instr. rehearsal

L02/L03 SUPPORT SPACES

bar/restaurant
offices
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage





L10/L11 PERFORMANCE NETWORK

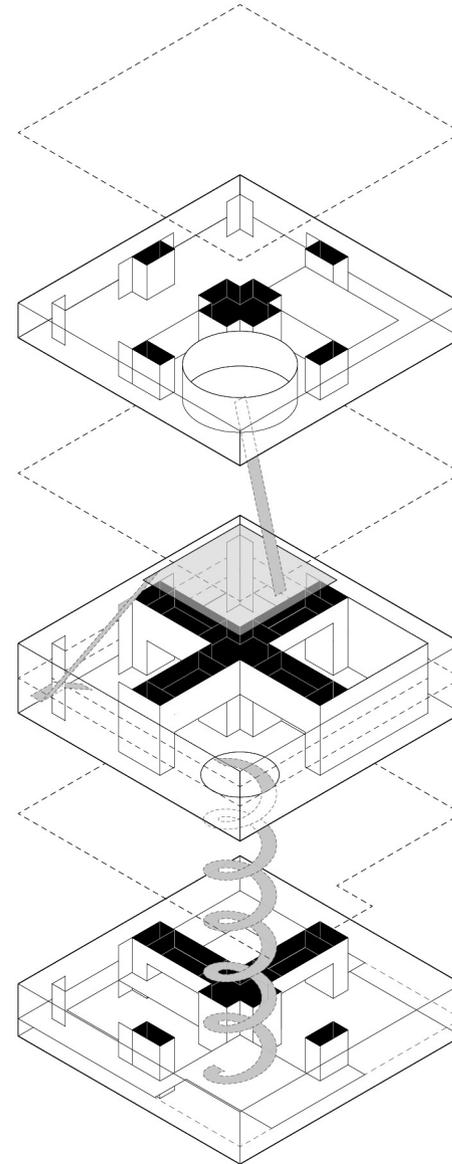
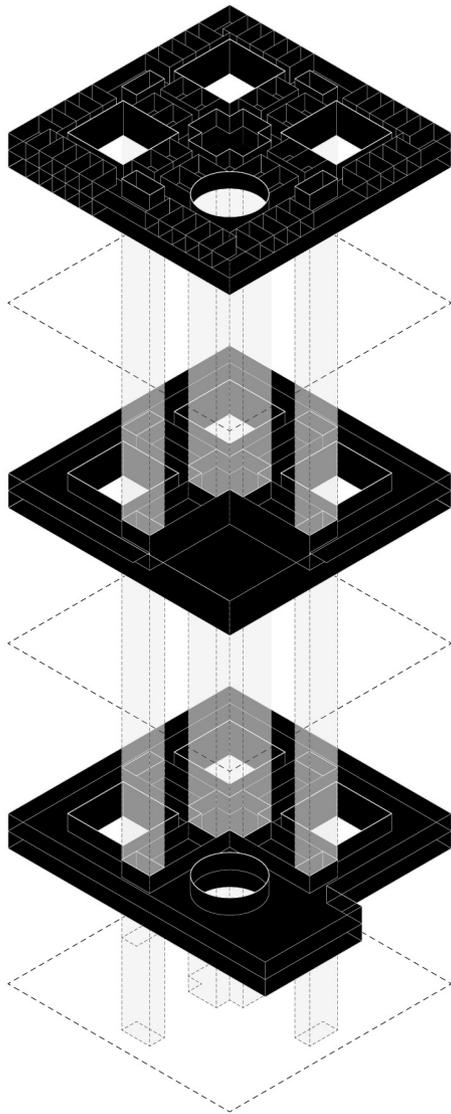
arena theater
 perf./staff canteen
 perf. lounge
 drama & dance rehearsal
 terrace

L04-L07 PERFORMANCE NETWORK

foyer
 stage
 auditorium

GF00/L01 PERFORMANCE NETWORK

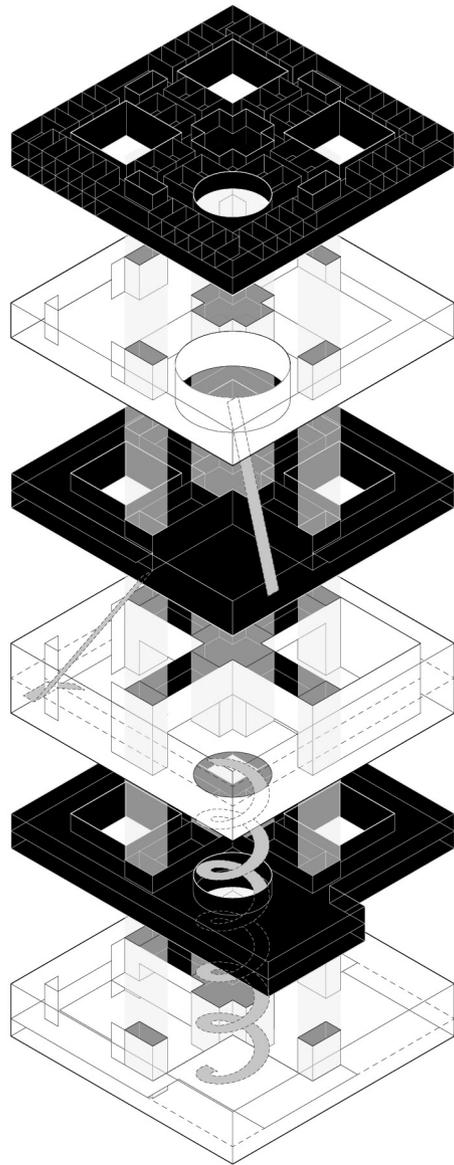
entrance
 exhibition
 black box
 delivery bay
 workshop



L10/L11 PERFORMANCE NETWORK
 arena theater
 perf./staff canteen
 perf. lounge
 drama & dance rehearsal
 terrace

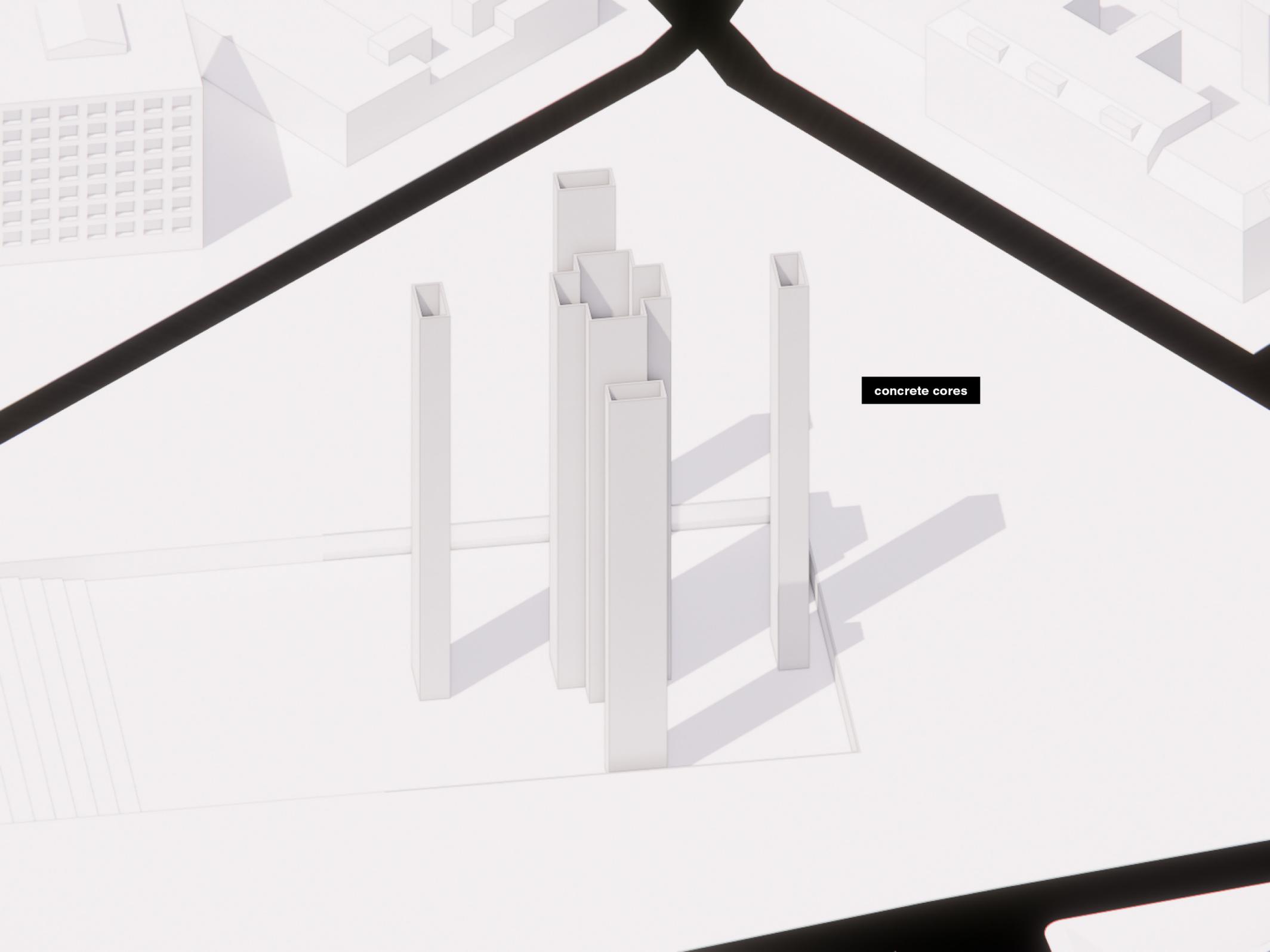
L04-L07 PERFORMANCE NETWORK
 foyer
 stage
 auditorium

GF00/L01 PERFORMANCE NETWORK
 entrance
 exhibition
 black box
 delivery bay
 workshop



ROBUST STRUCTURE



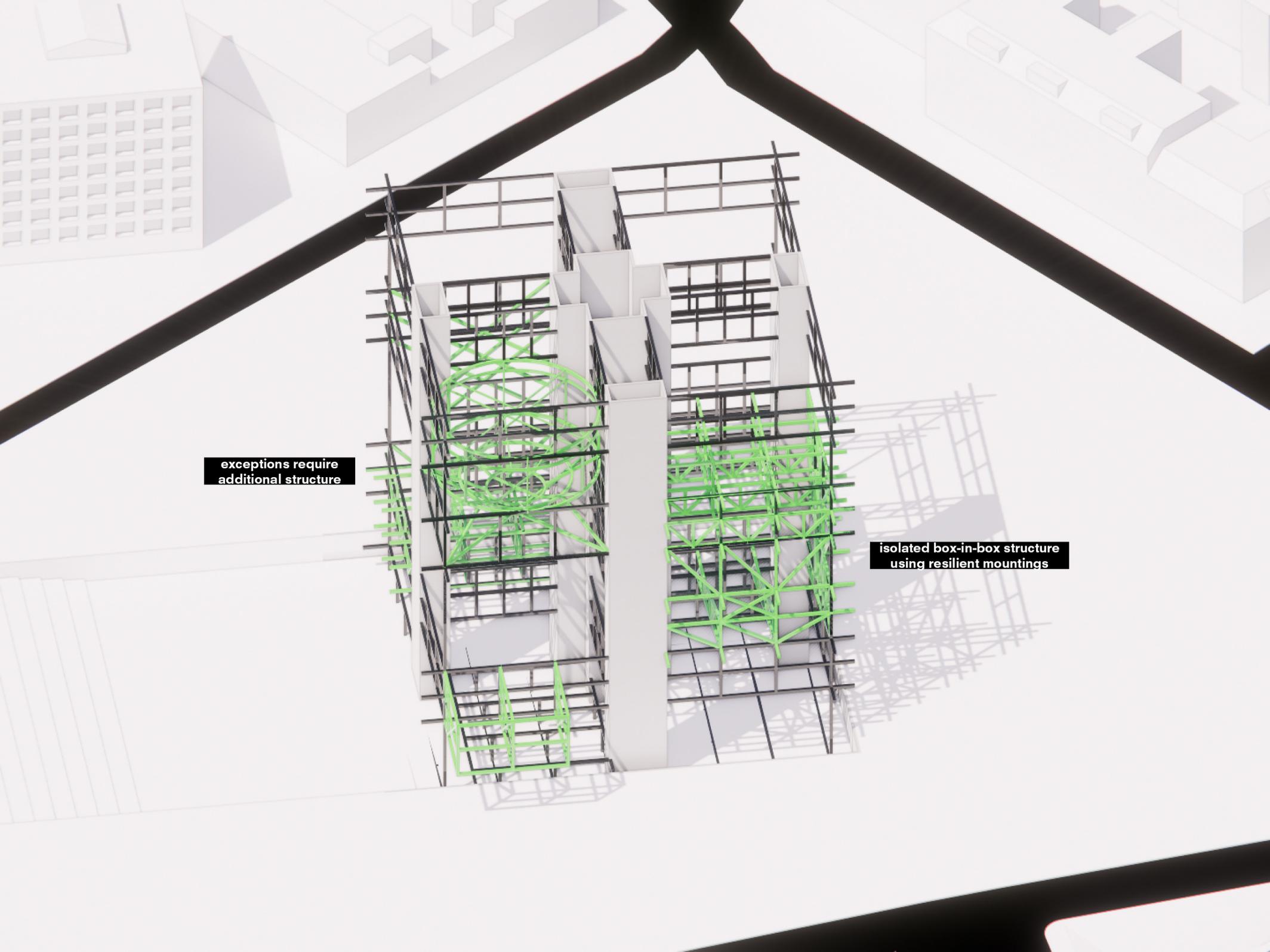


concrete cores

A 3D architectural rendering of a building's steel structure. The structure is composed of a central vertical column and two side columns, with horizontal beams connecting them. The structure is shown in a perspective view, with a central vertical column and two side columns. The structure is rendered in a dark grey color. The background is a light grey color with some faint architectural elements. The structure is shown in a perspective view, with a central vertical column and two side columns. The structure is rendered in a dark grey color. The background is a light grey color with some faint architectural elements.

primary steel structure

hybrid of vierendeel
bridge structure

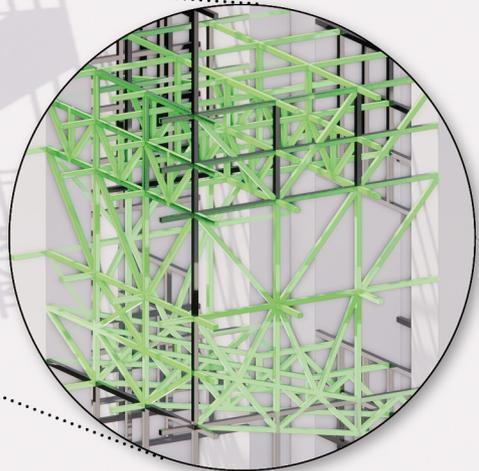
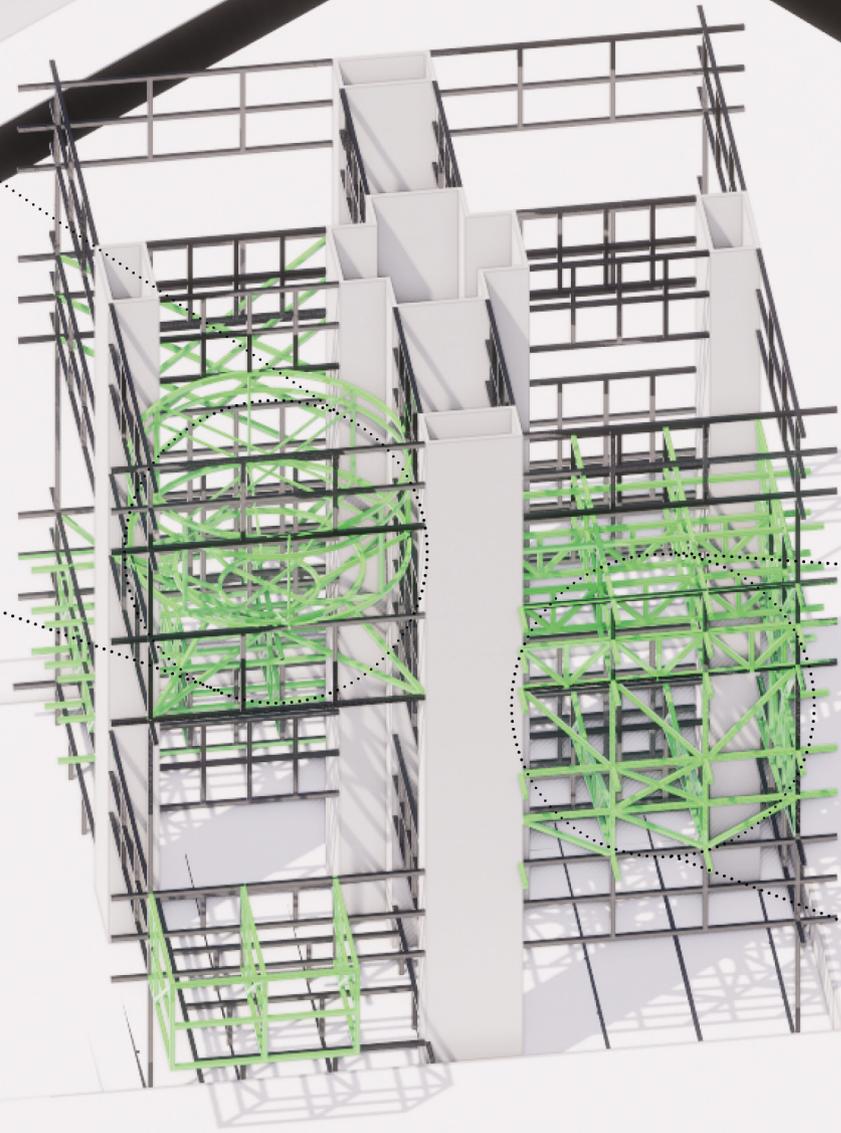


exceptions require
additional structure

isolated box-in-box structure
using resilient mountings

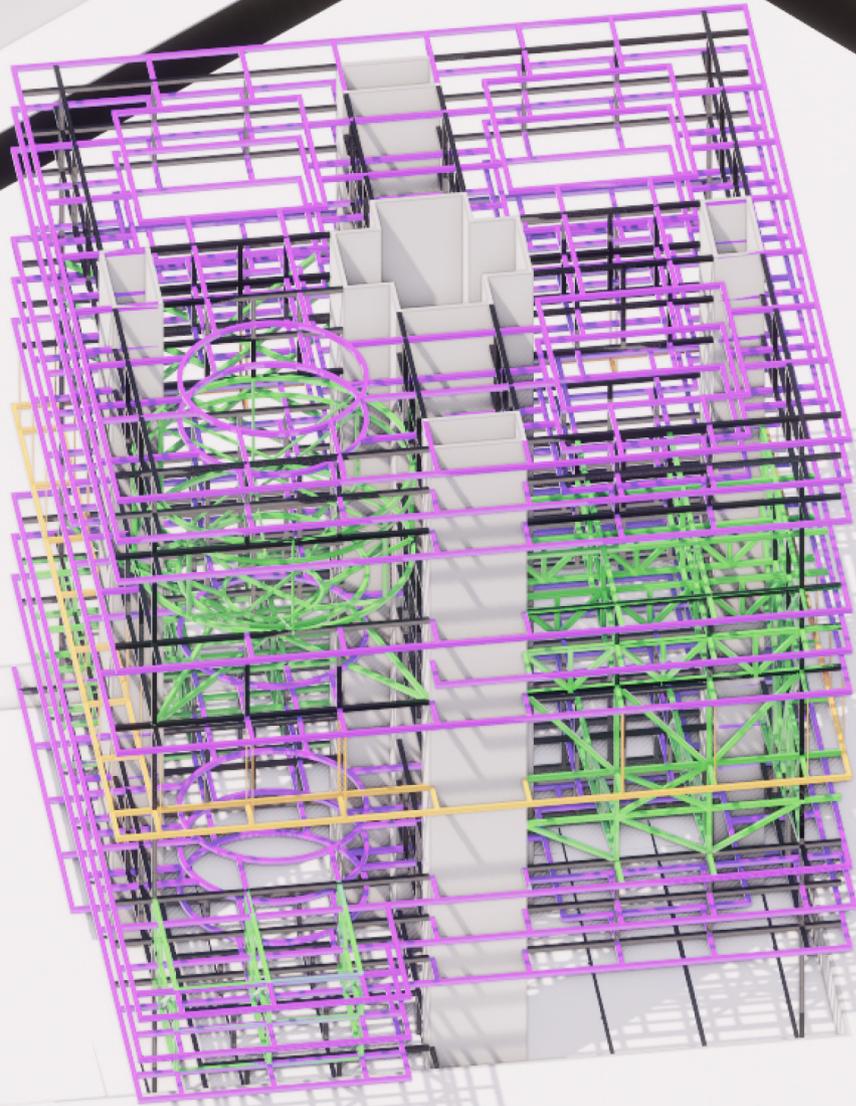


box-in-box structure
arena

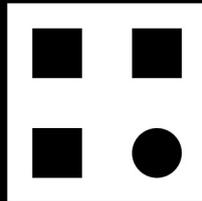


box-in-box structure
grand theater

secondary steel
structure for flooring



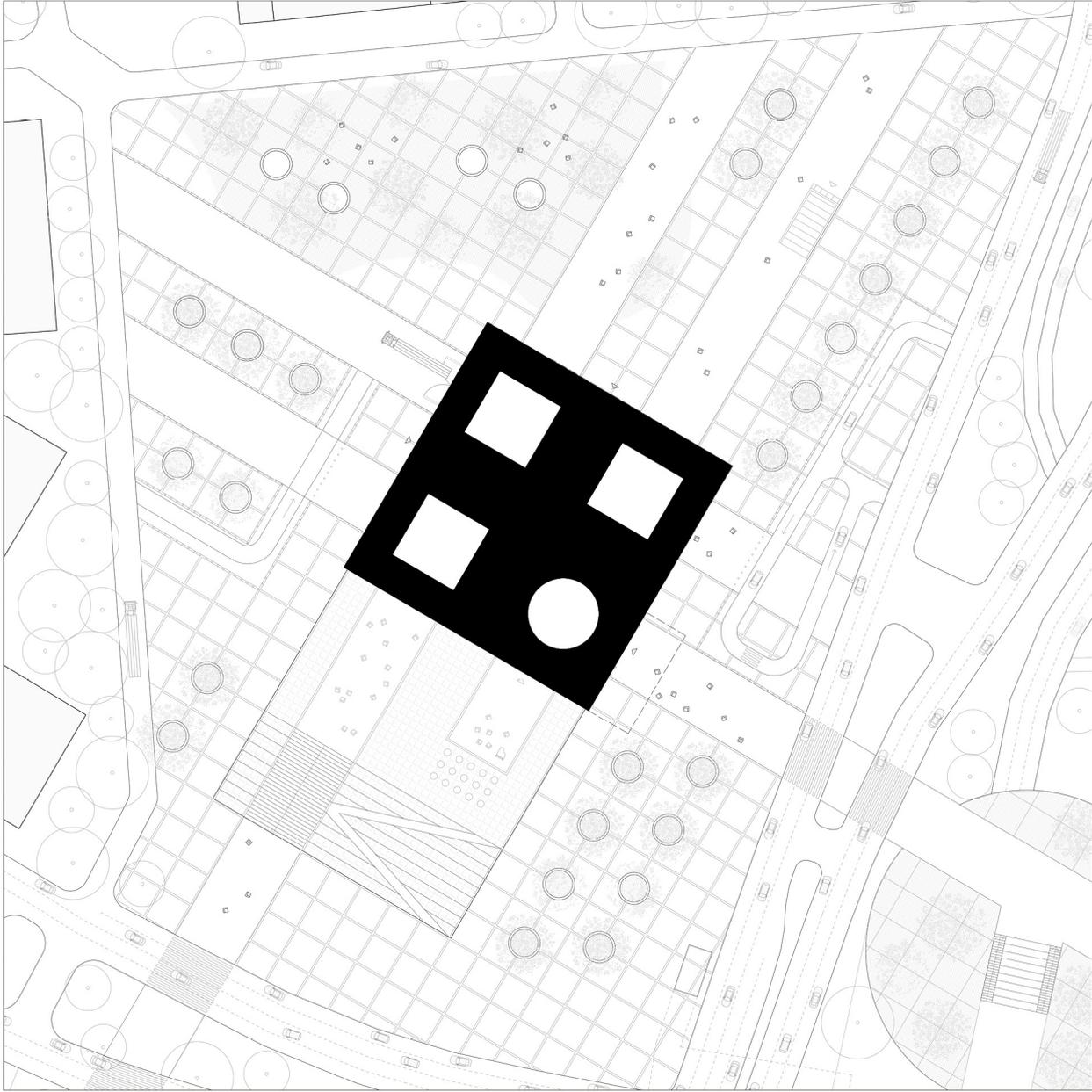


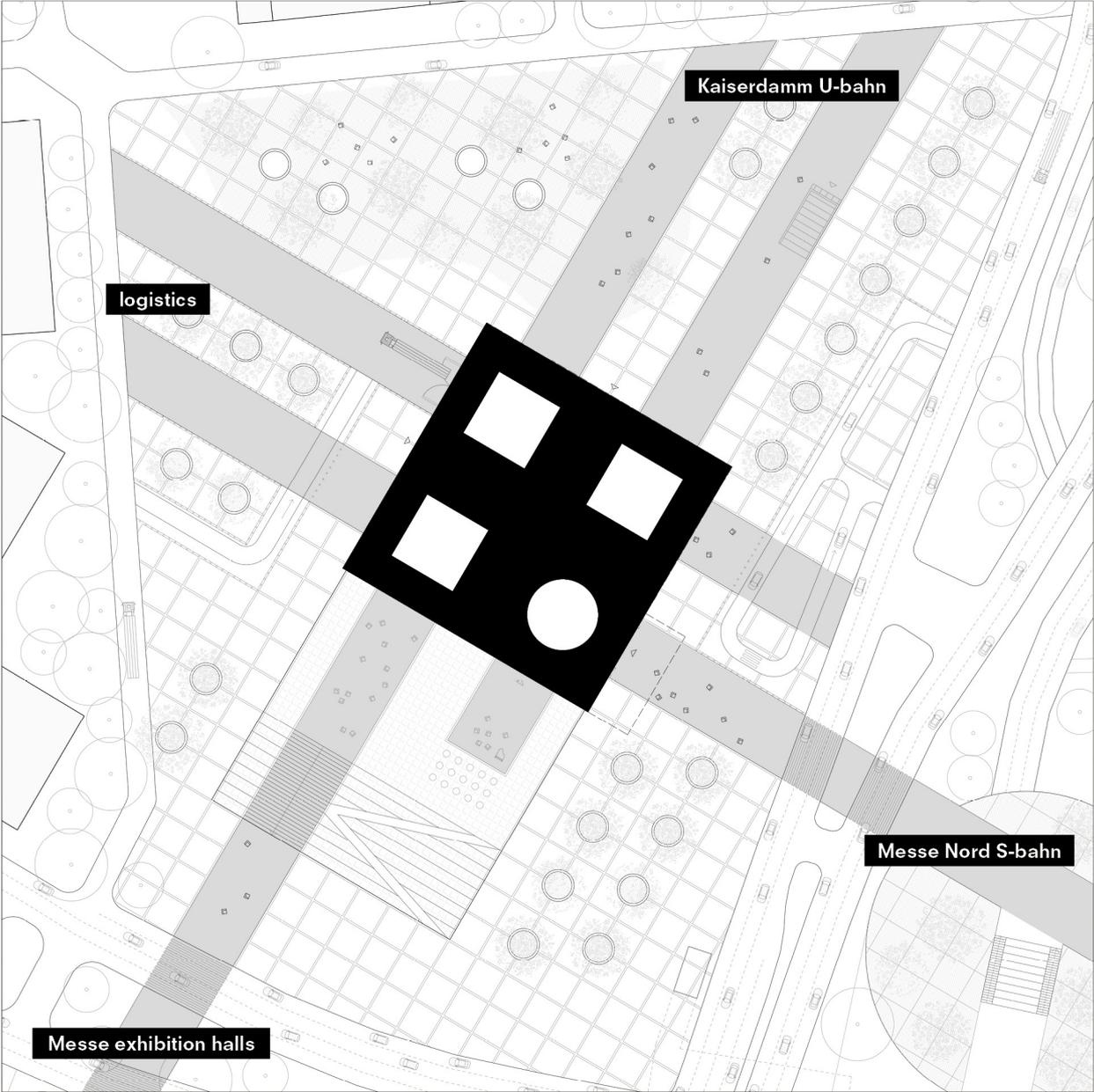


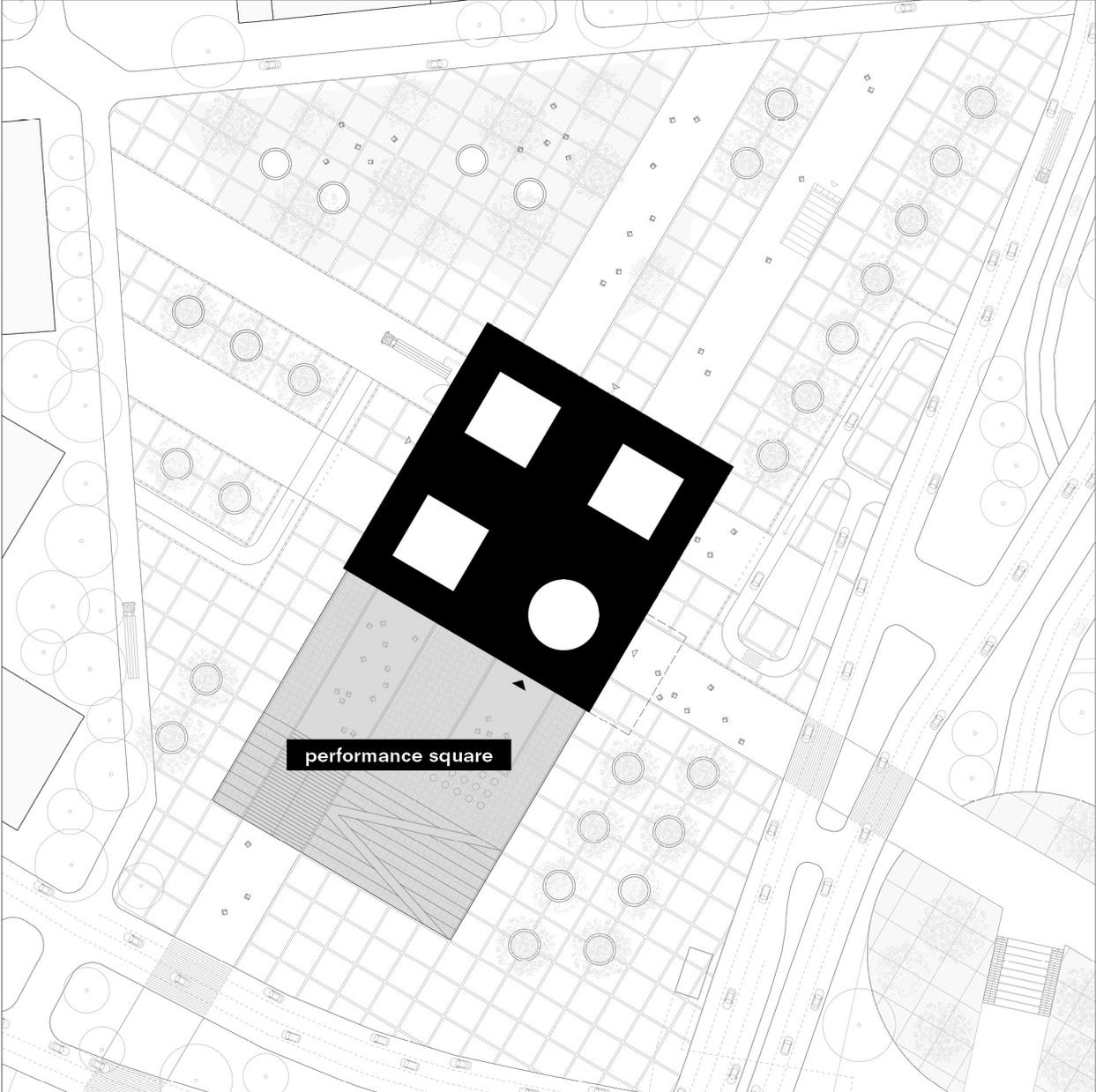
IMPLEMENTATION

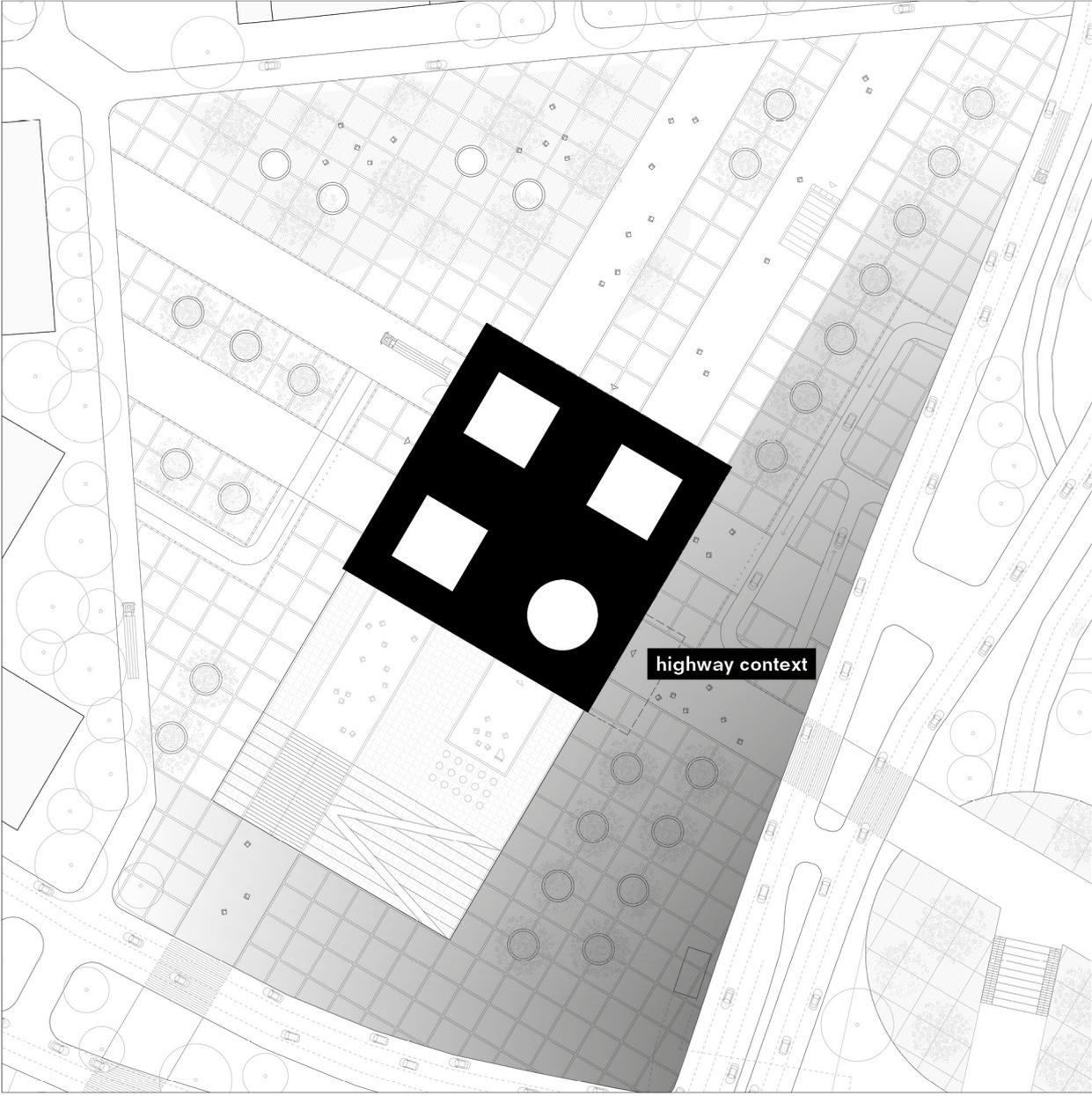




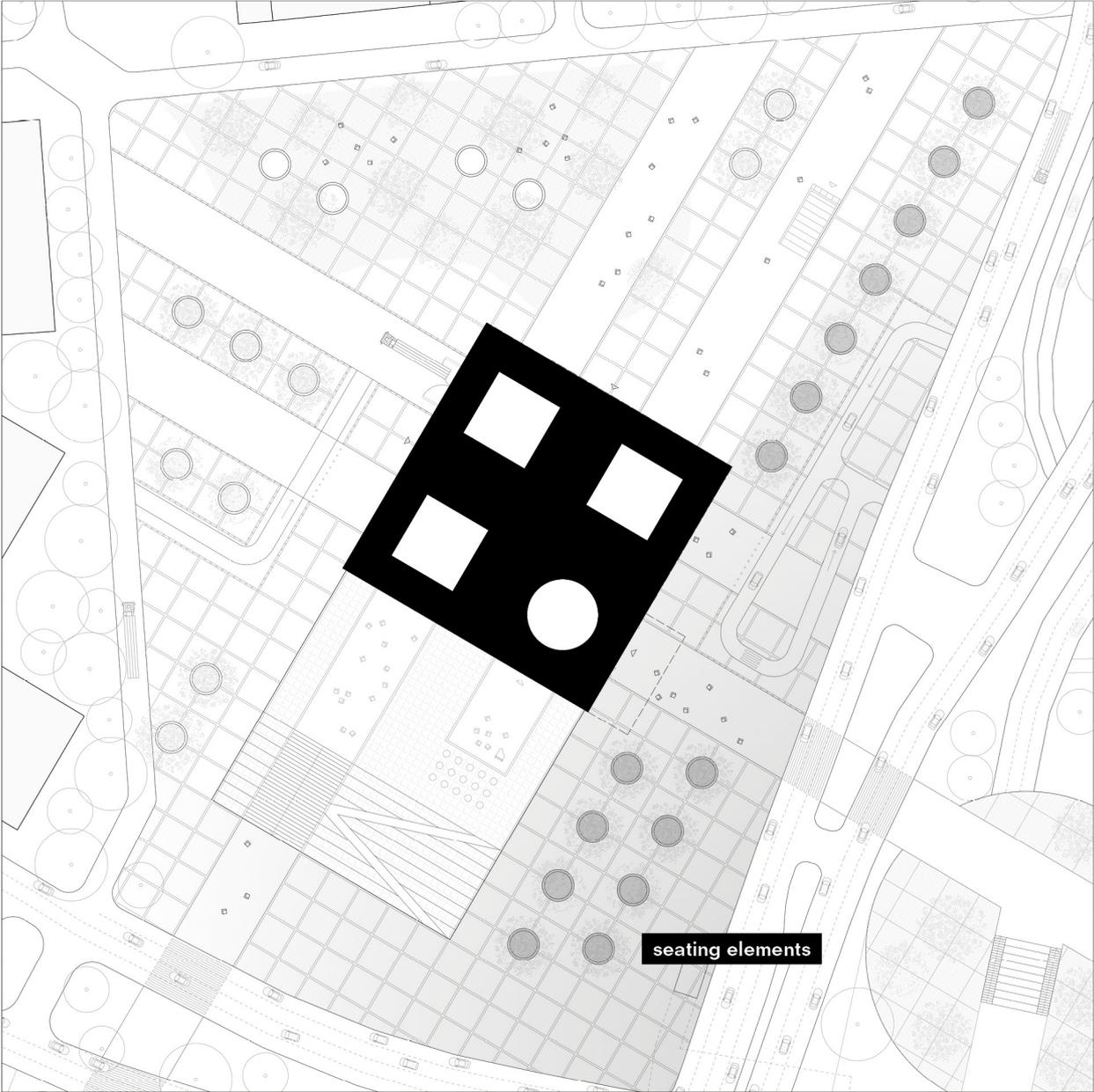


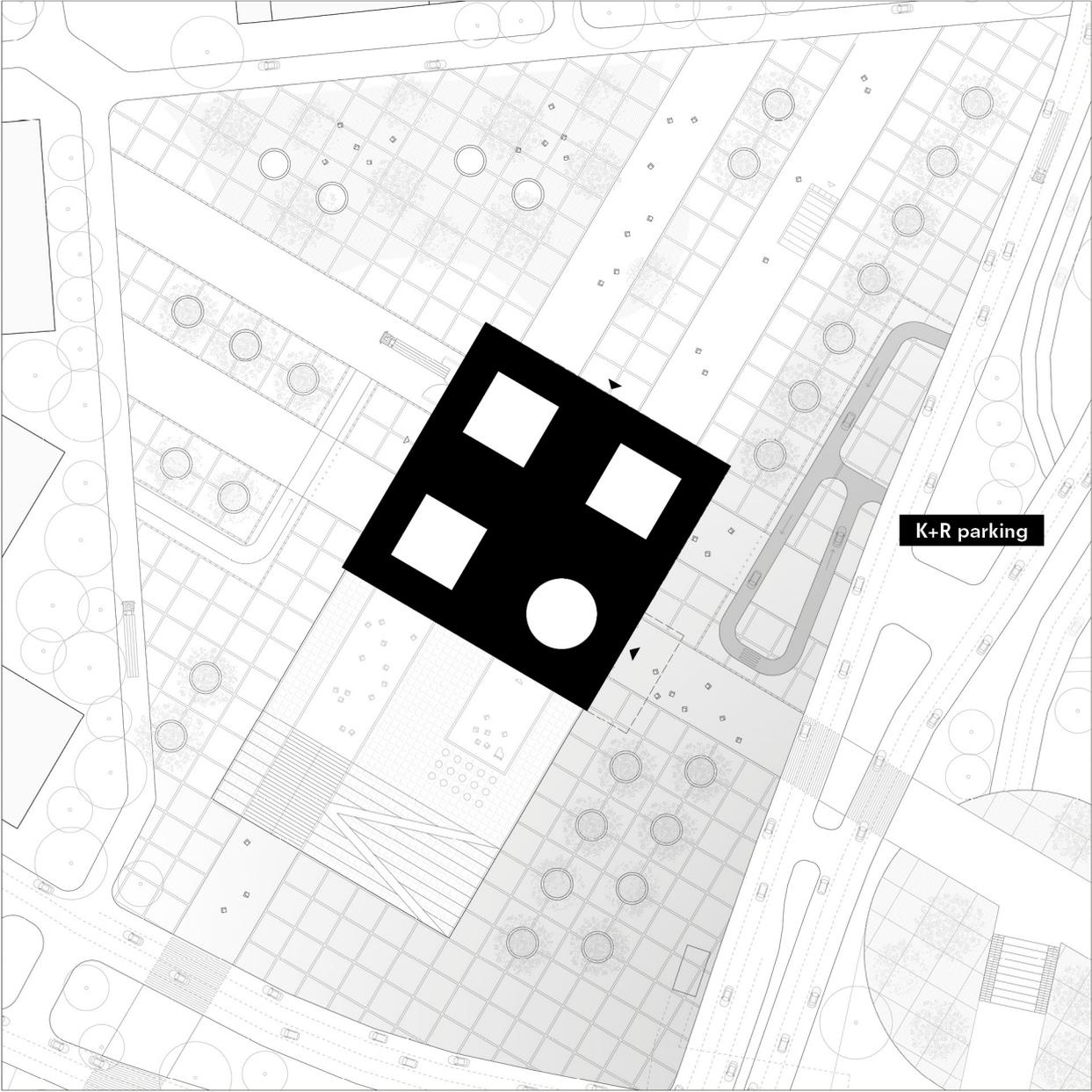




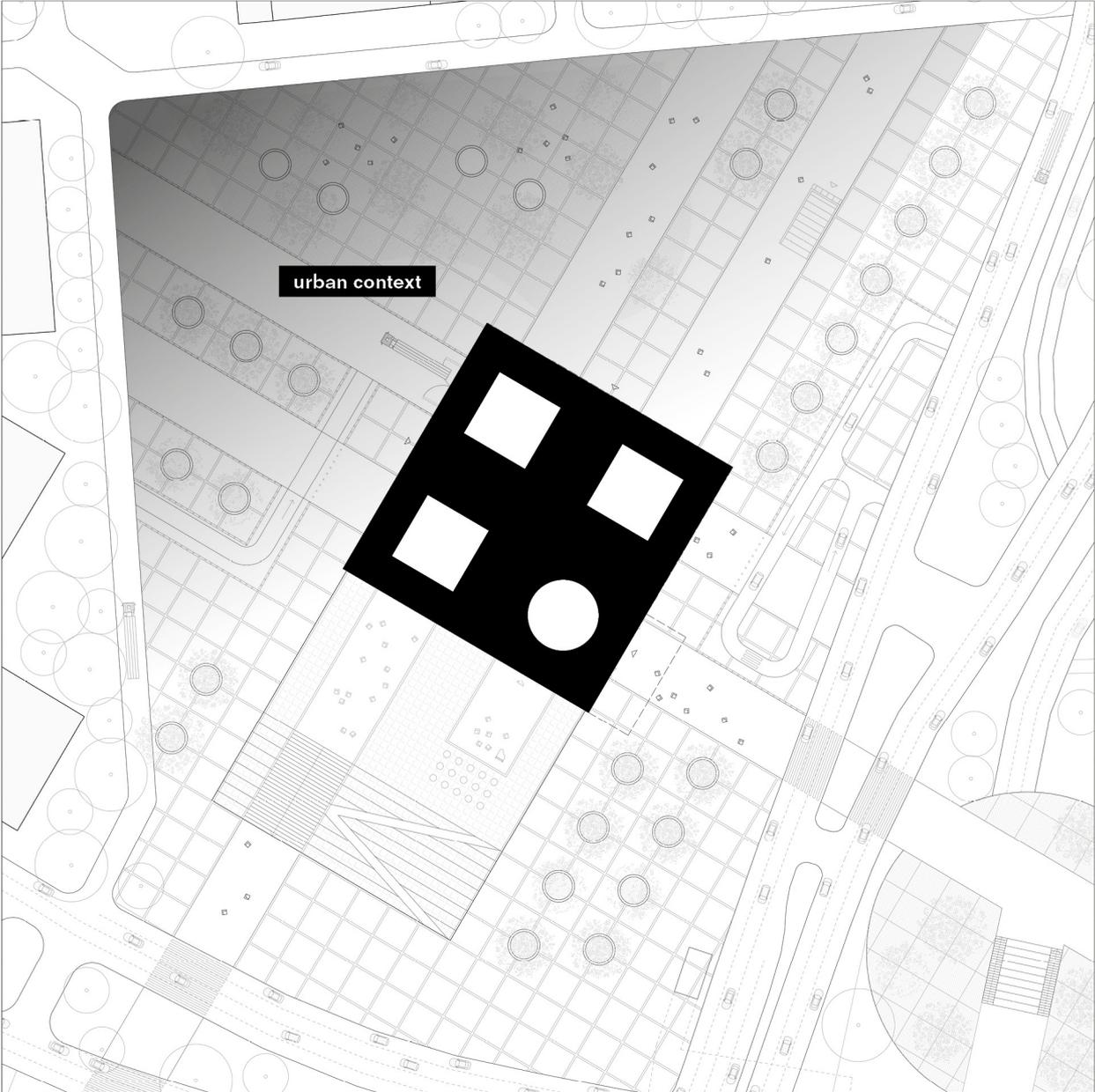


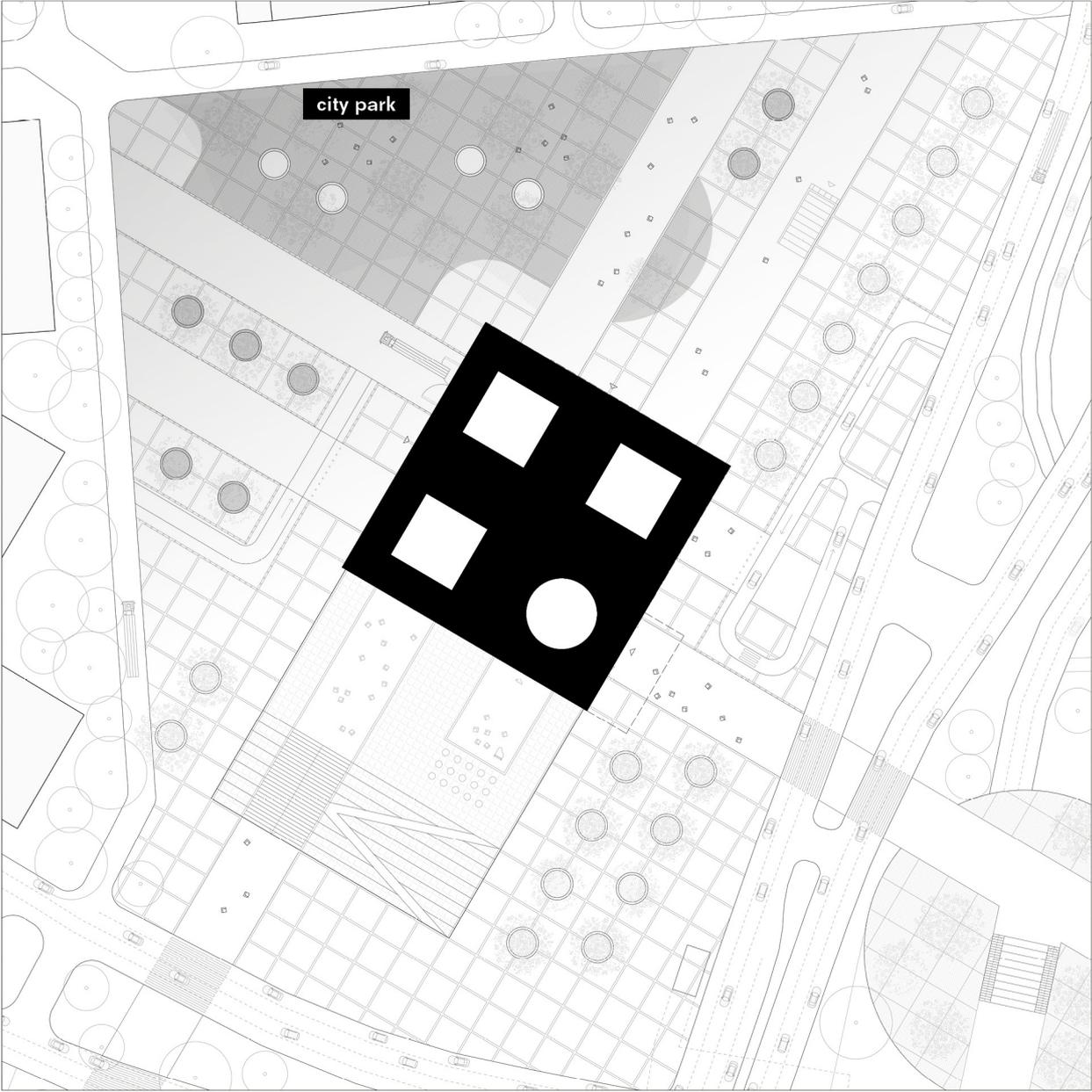
highway context



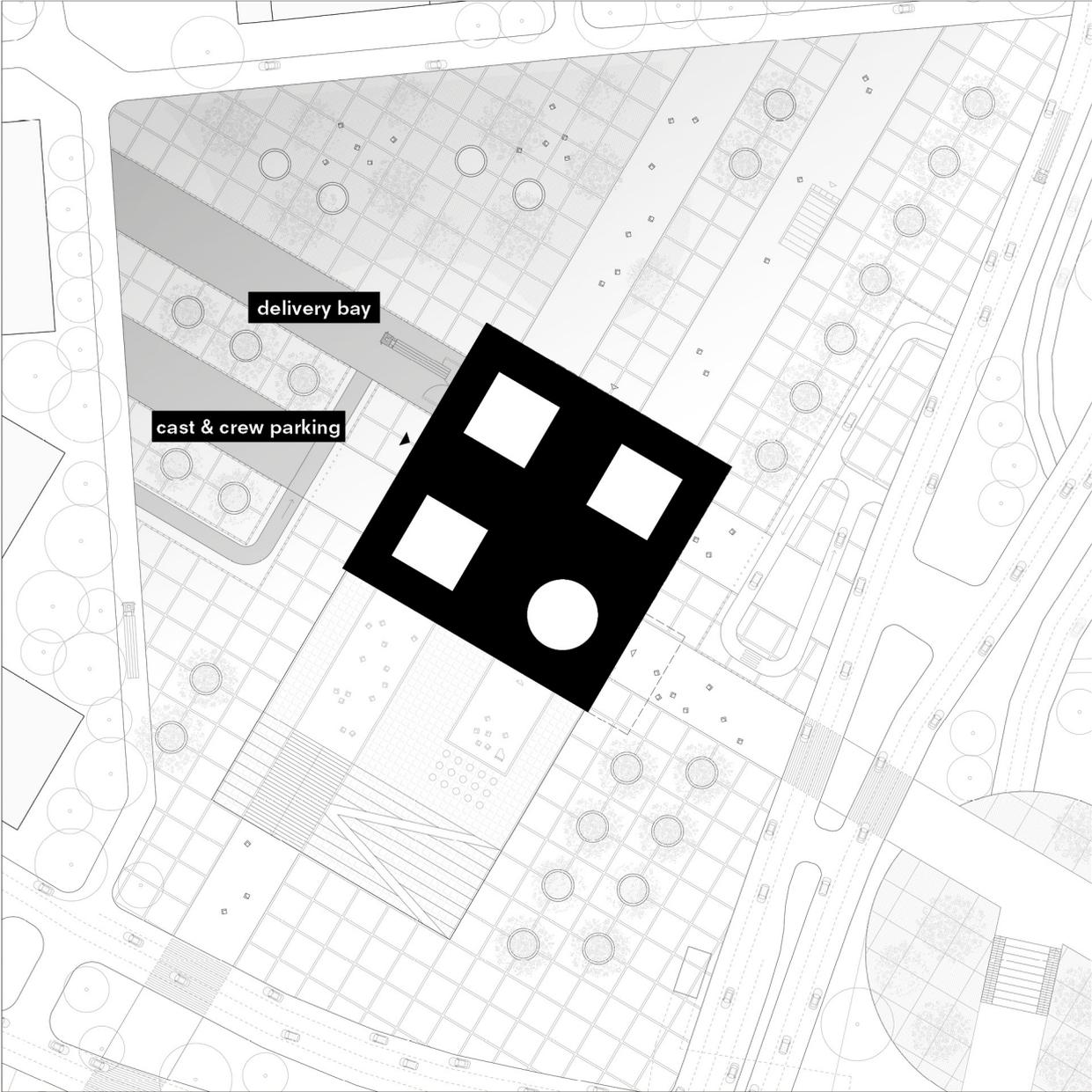


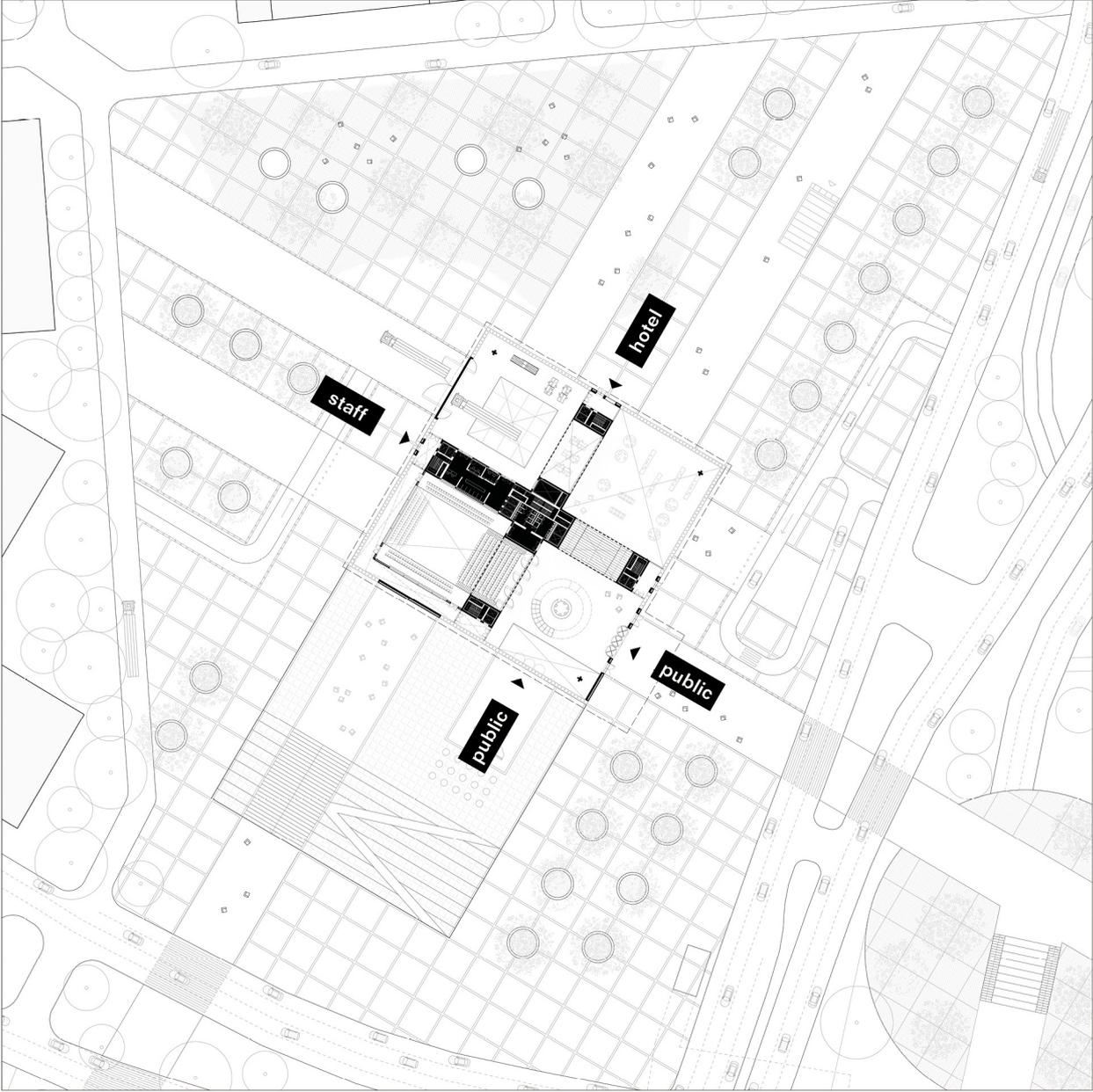
K+R parking





city park





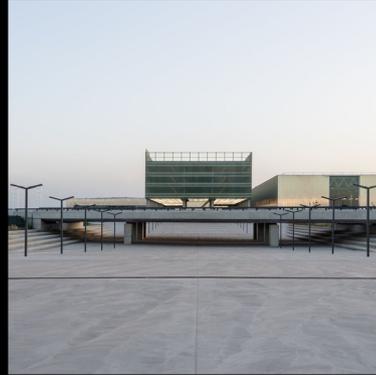




green landscaping



green landscaping



urban landscaping



lightscape

A NIGHT IN BERLIN...

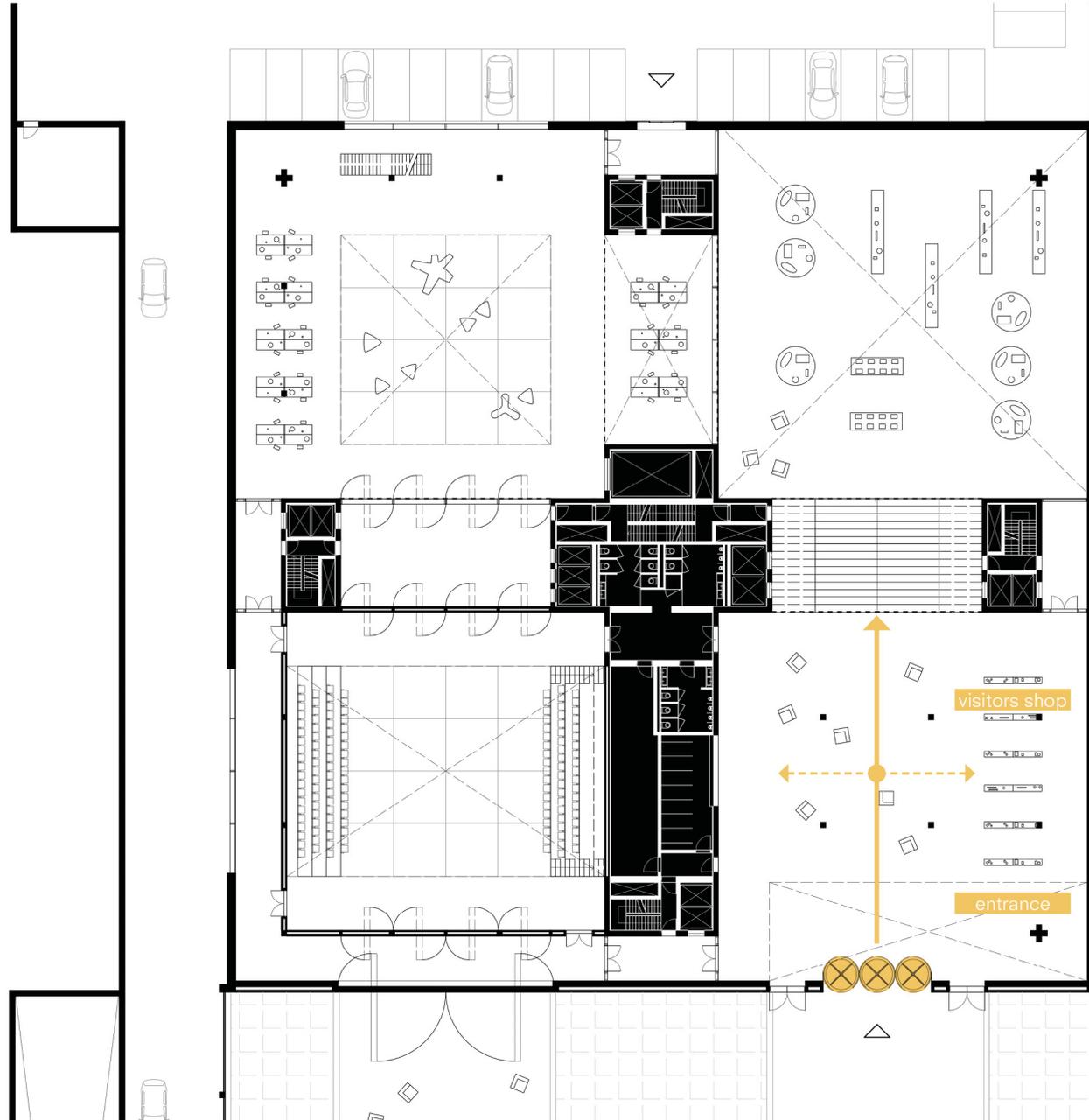


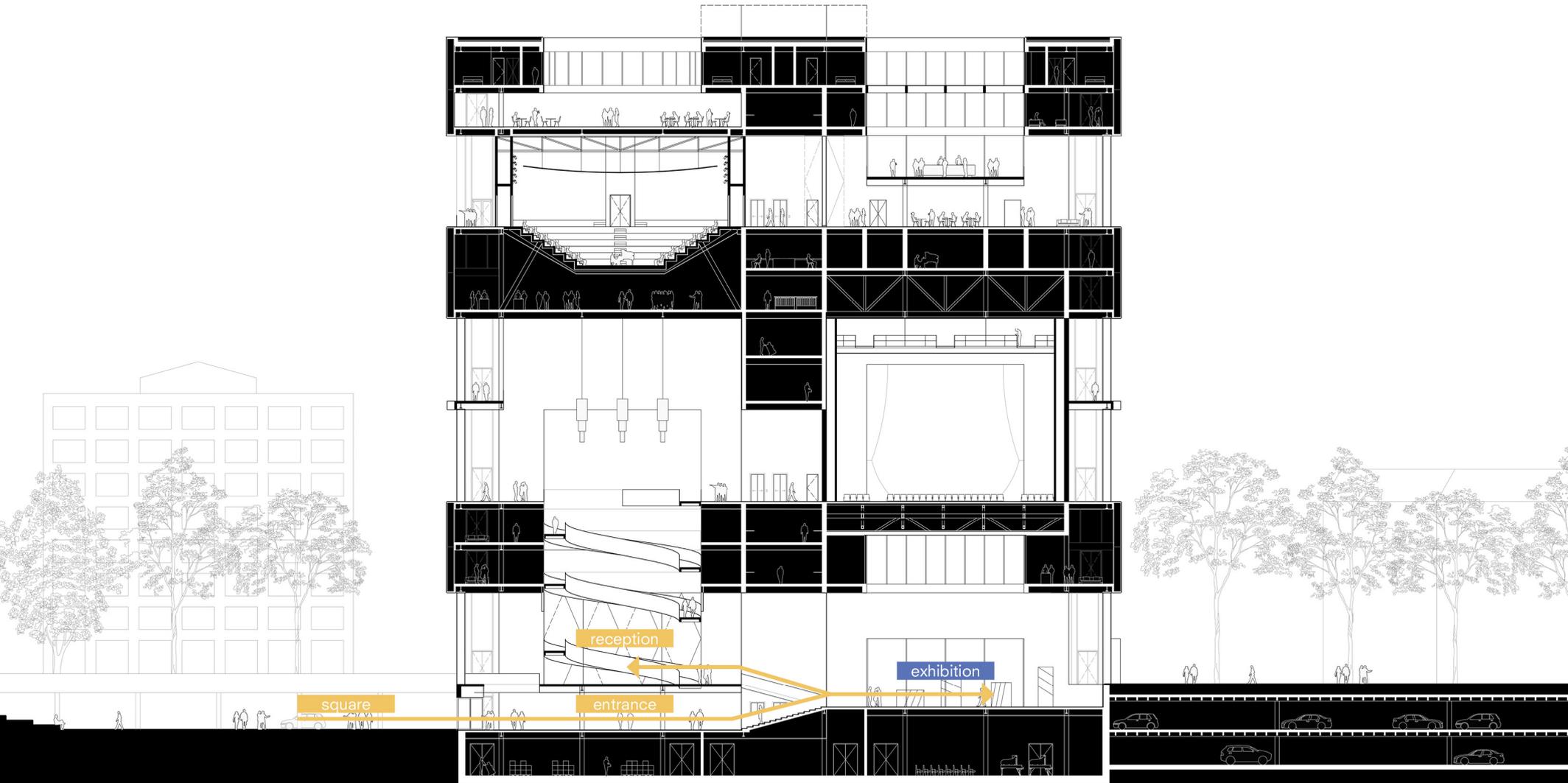
ZKM
Zentrum
für Kunst
und
Medien

ZKM
Zentrum
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und
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Zentrum
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und
Medien

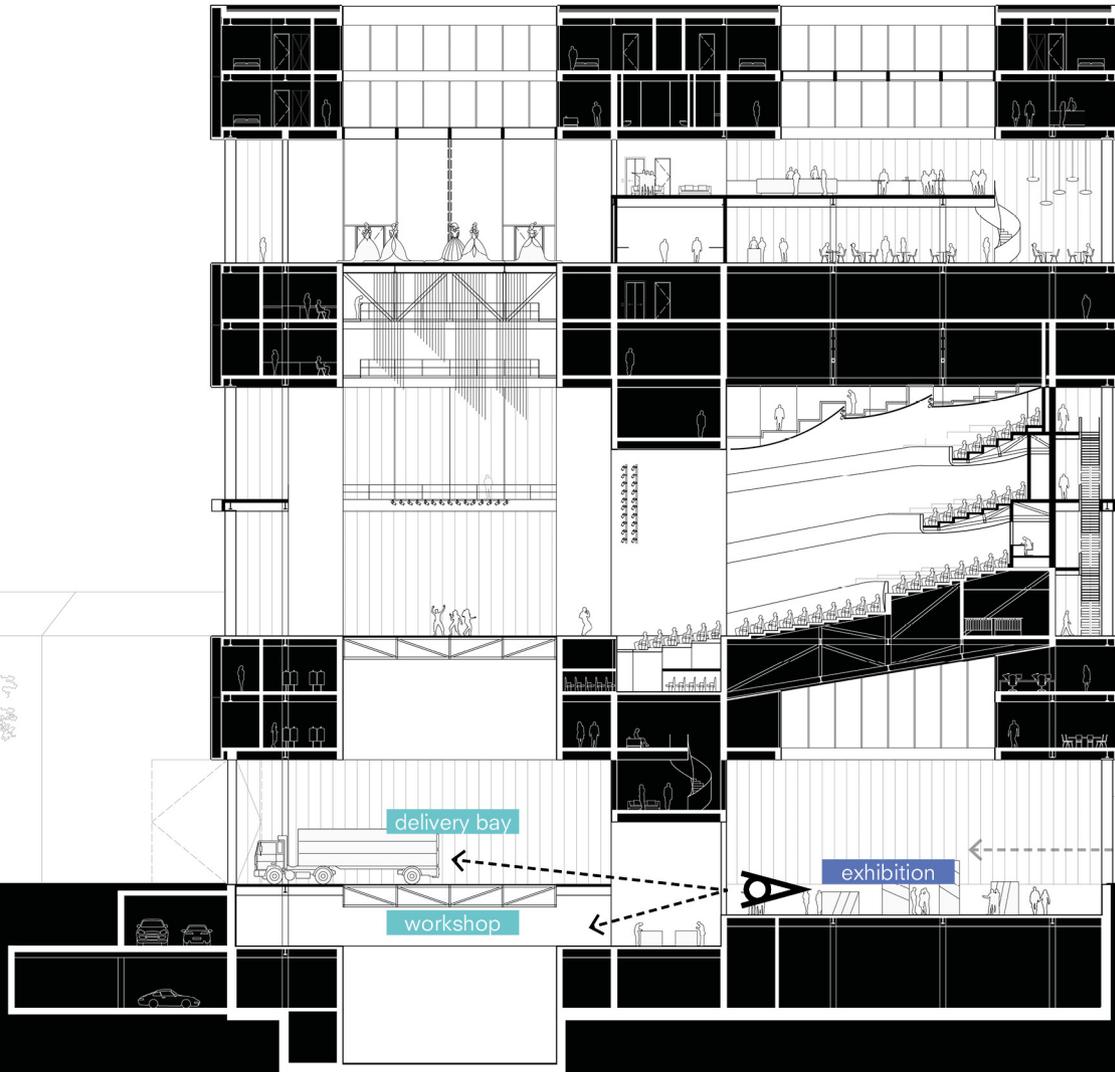
B-01





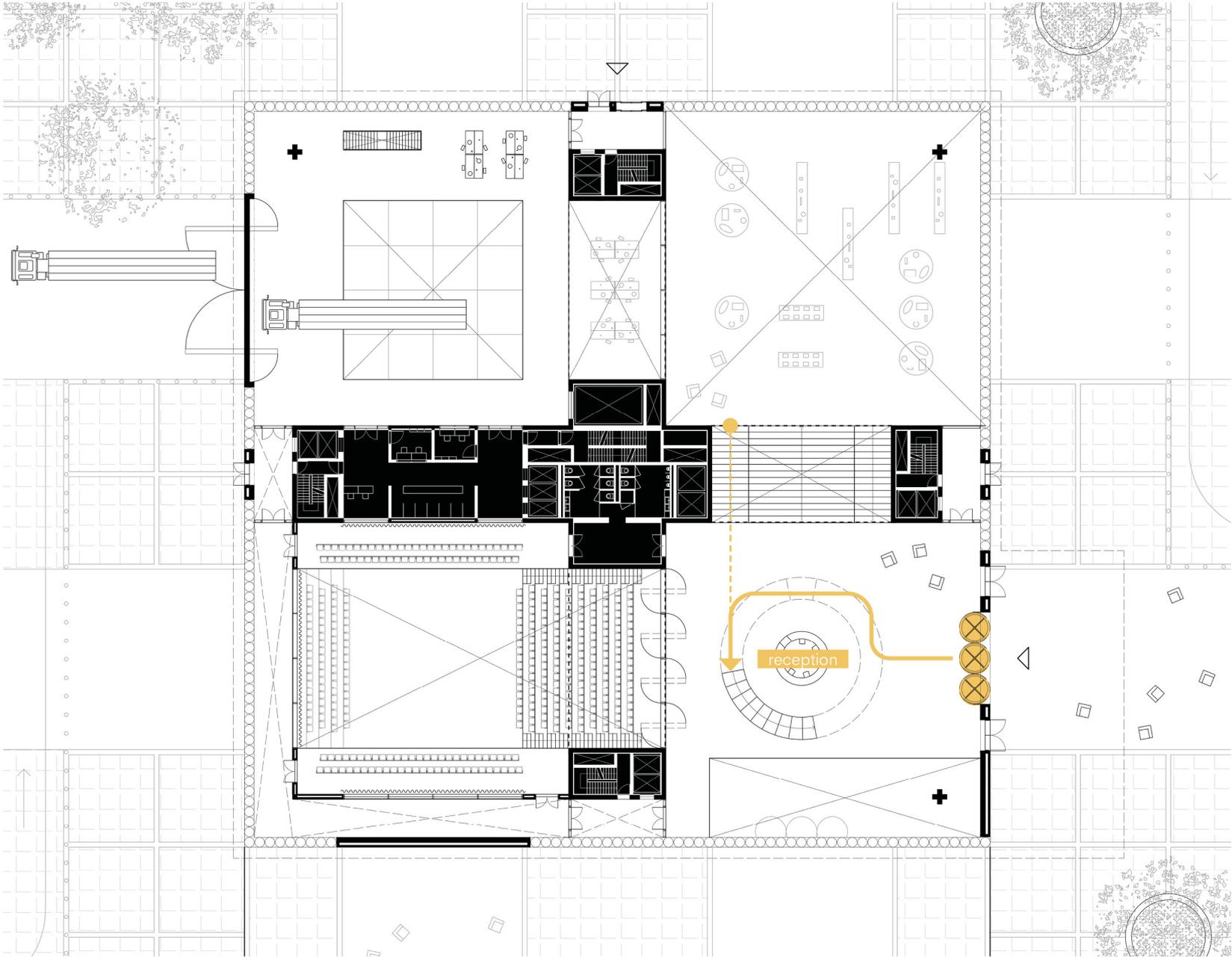


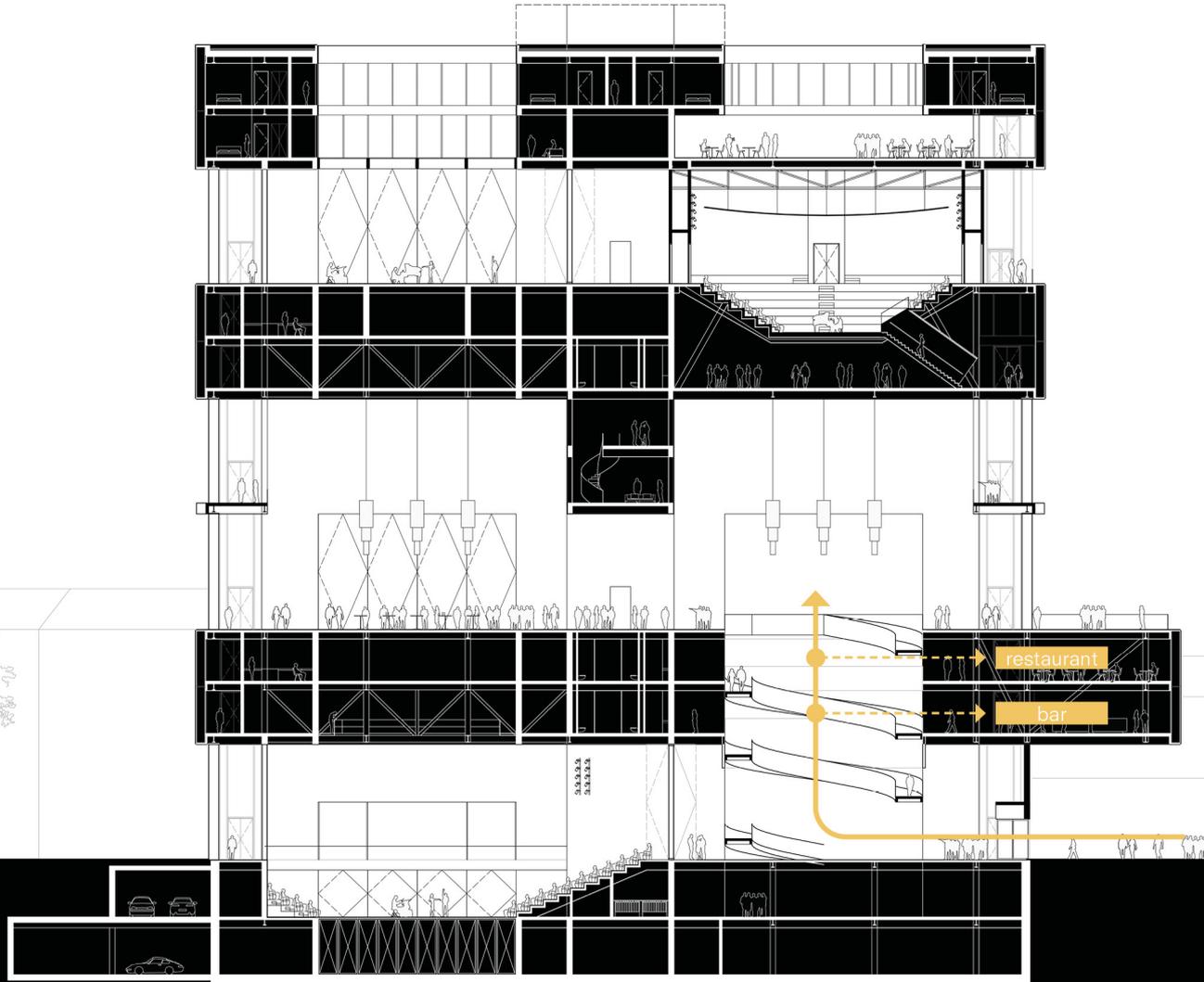


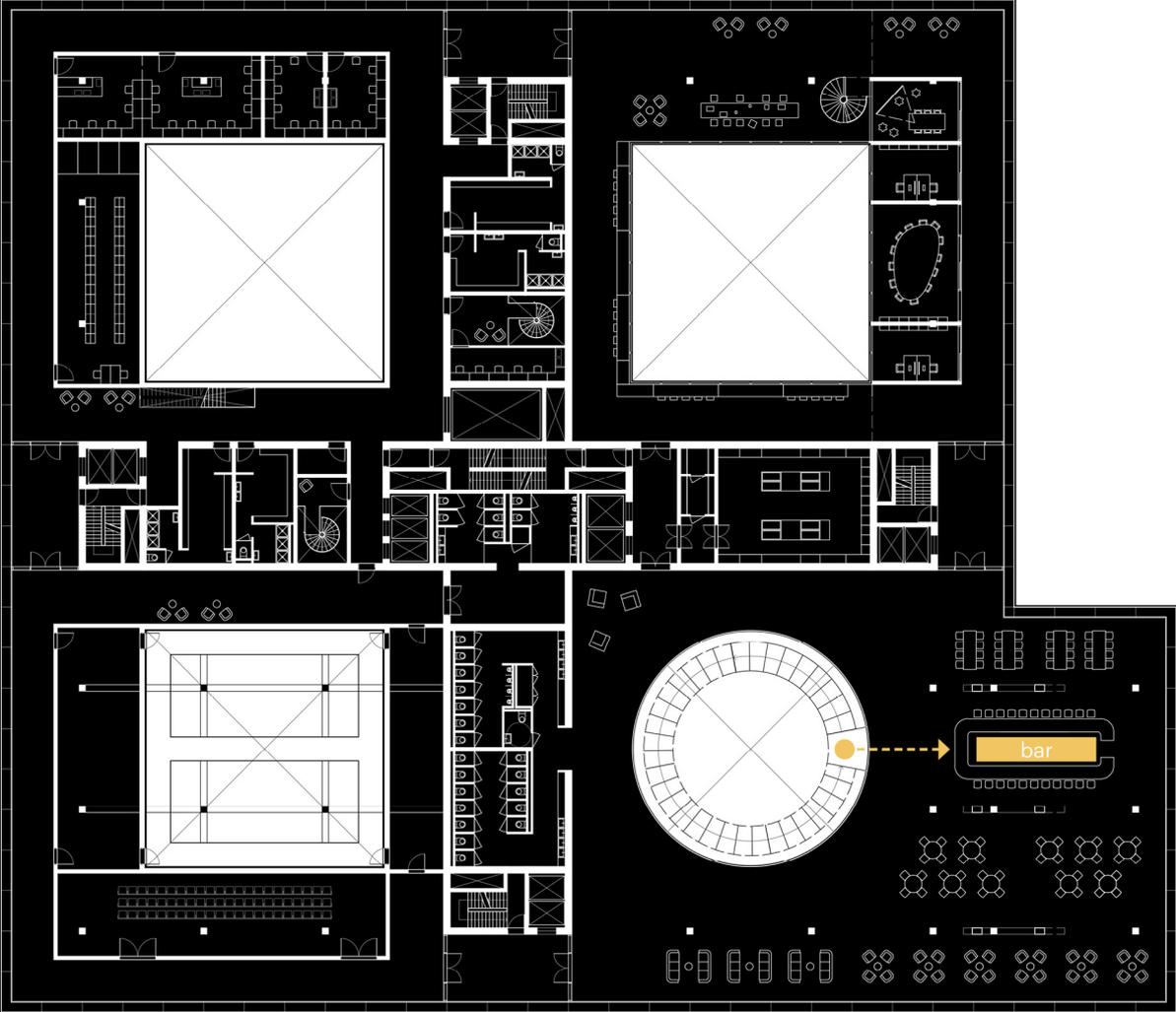


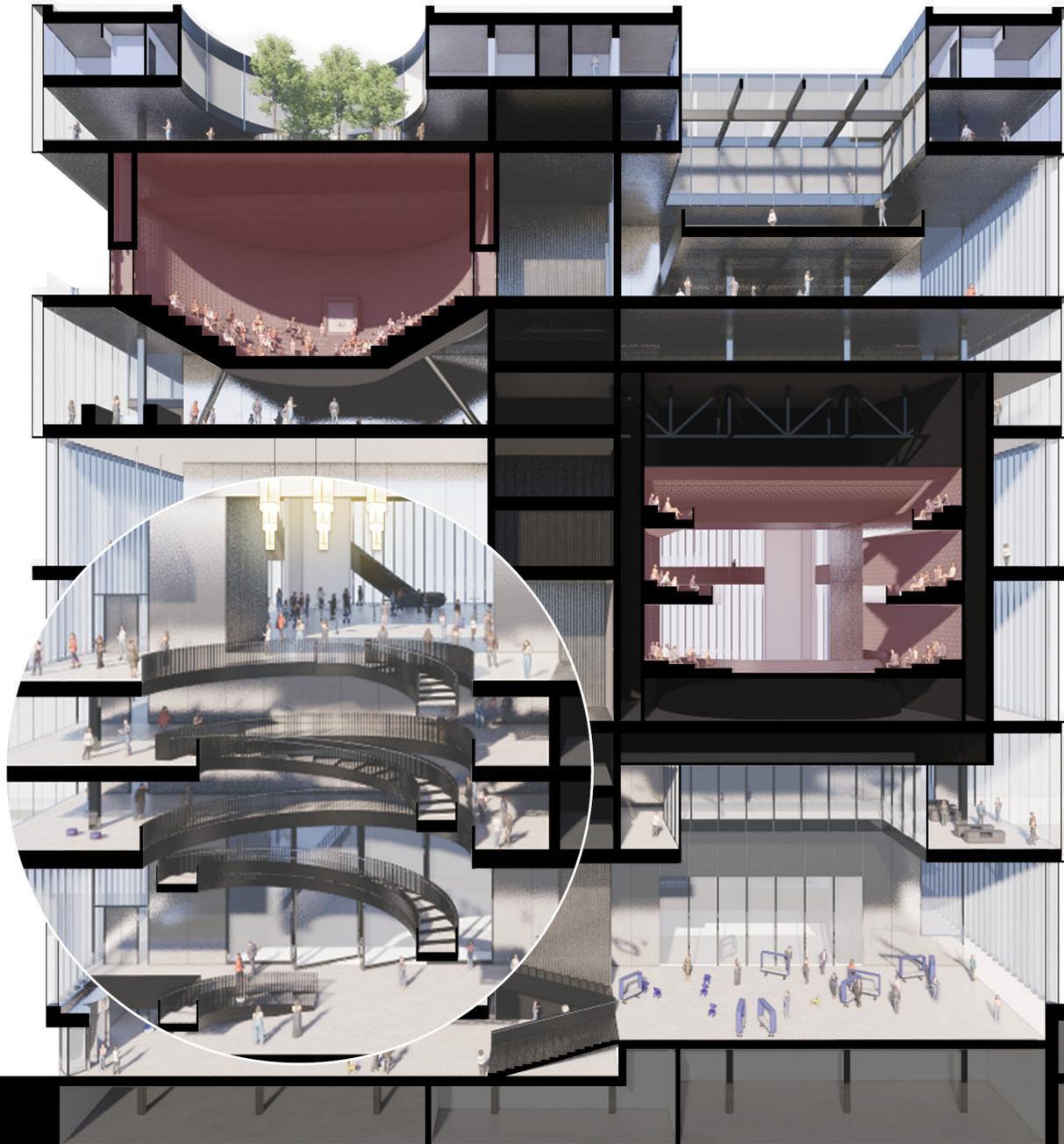


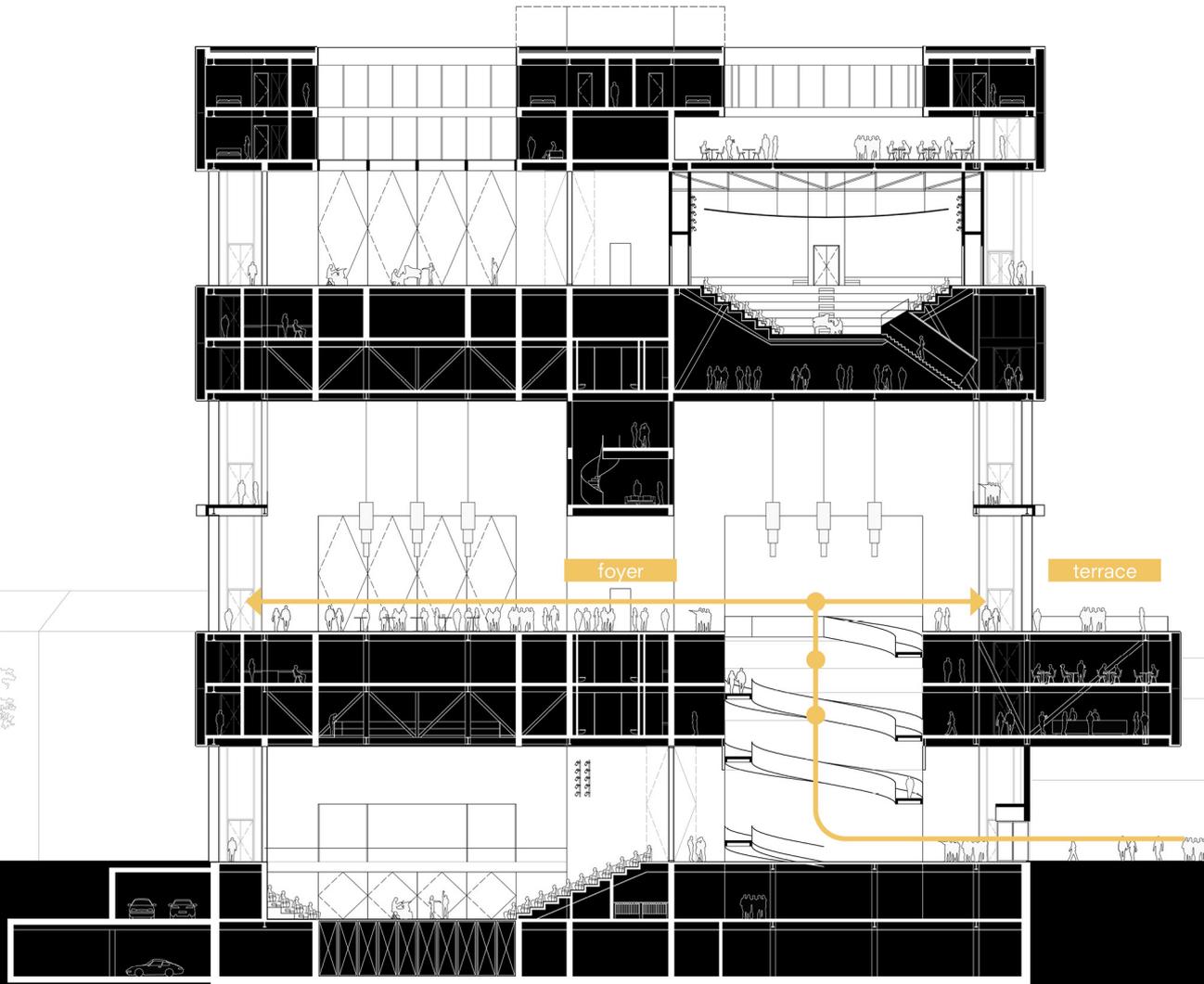
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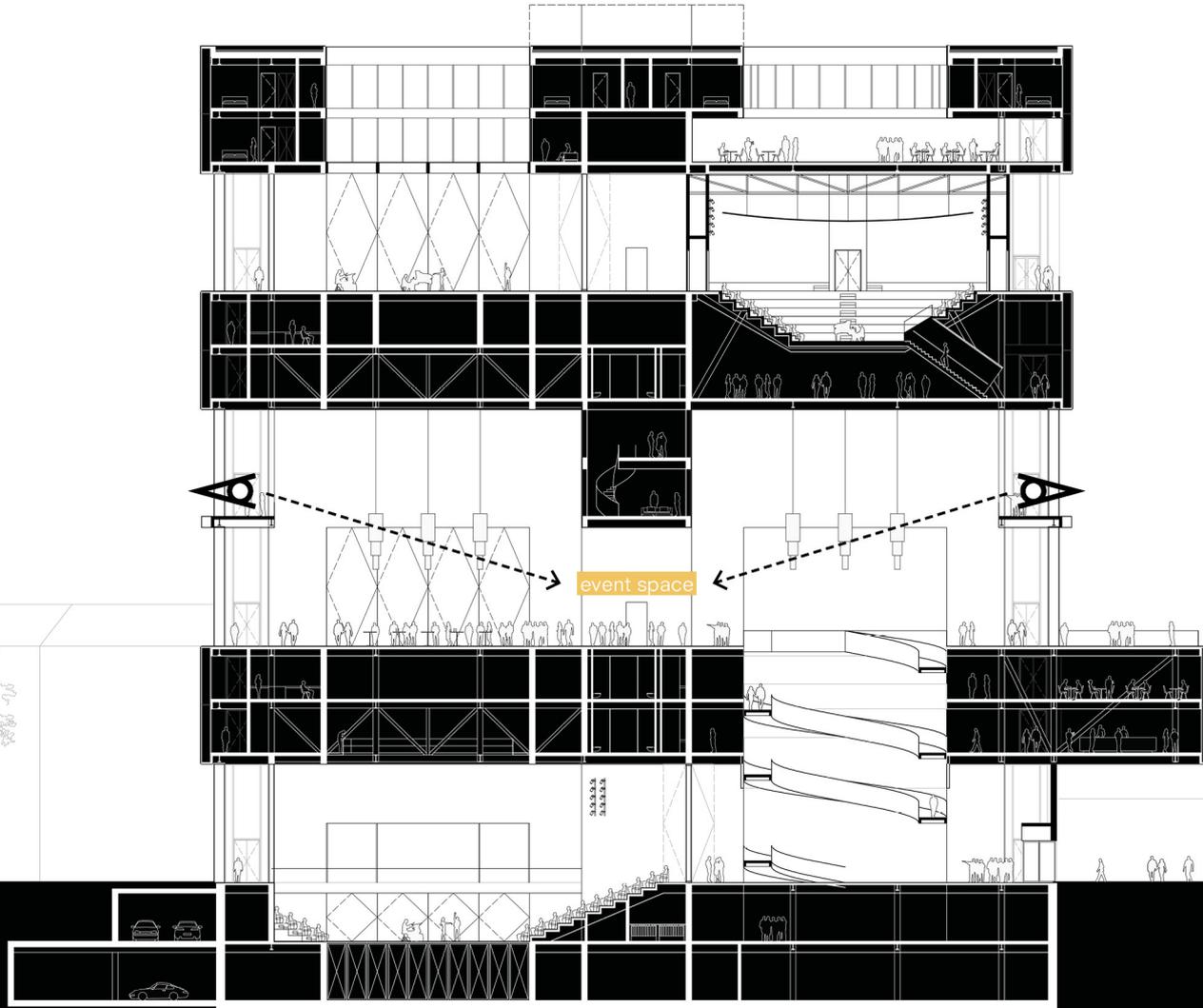
















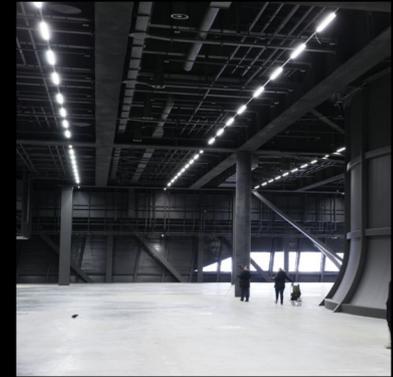
layered curtains



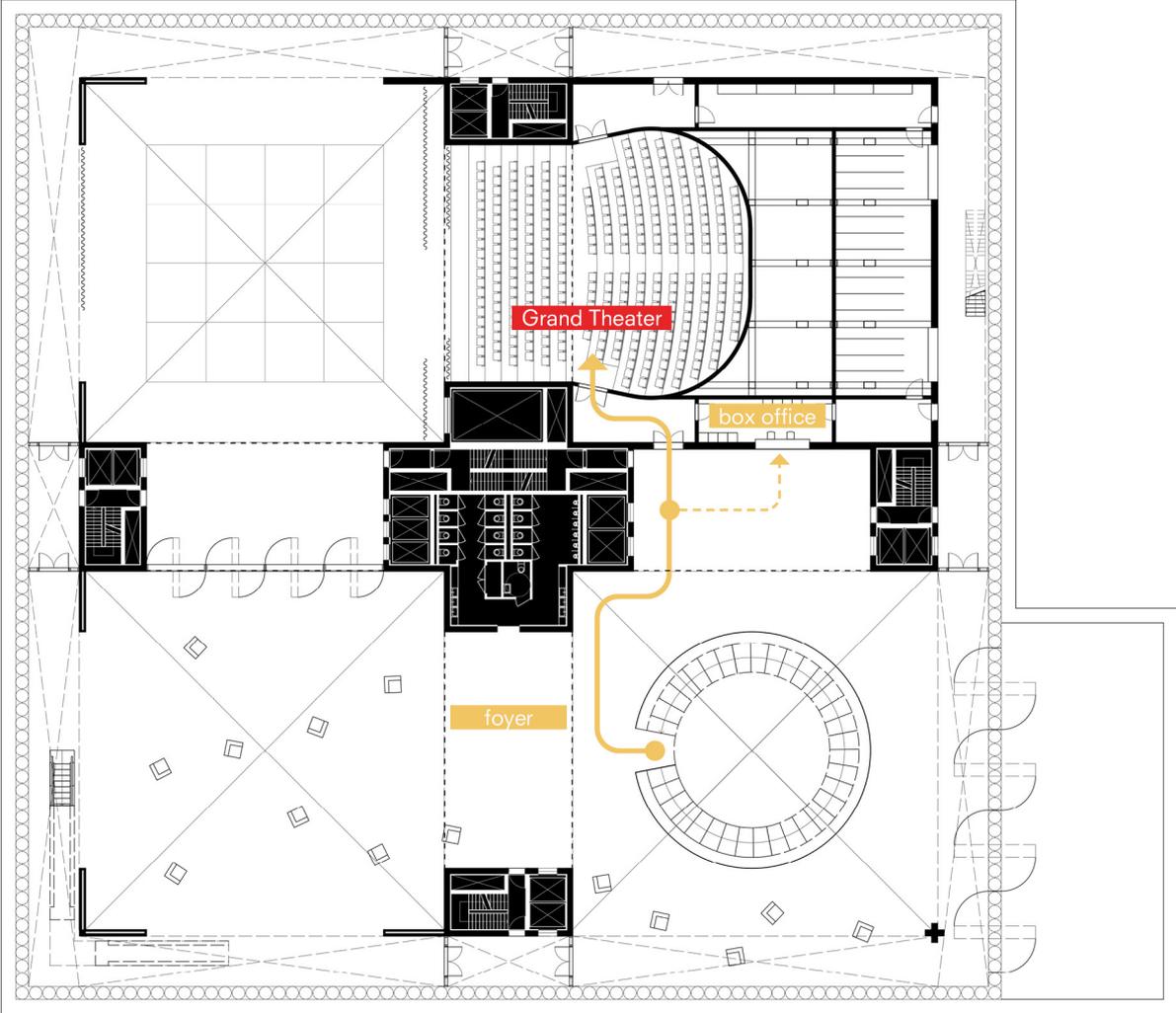
vacuum glass tubes

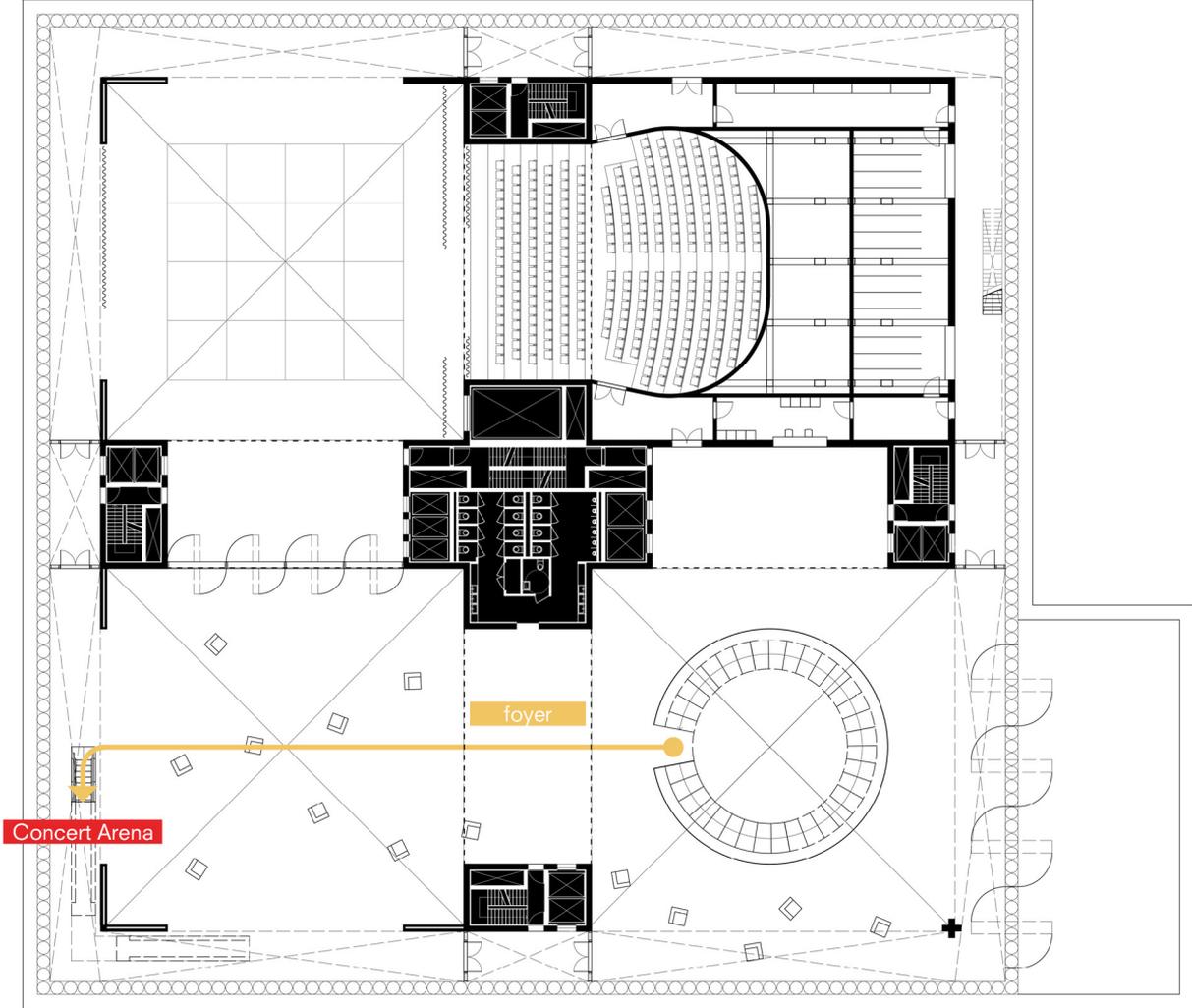


Metallic ceiling light



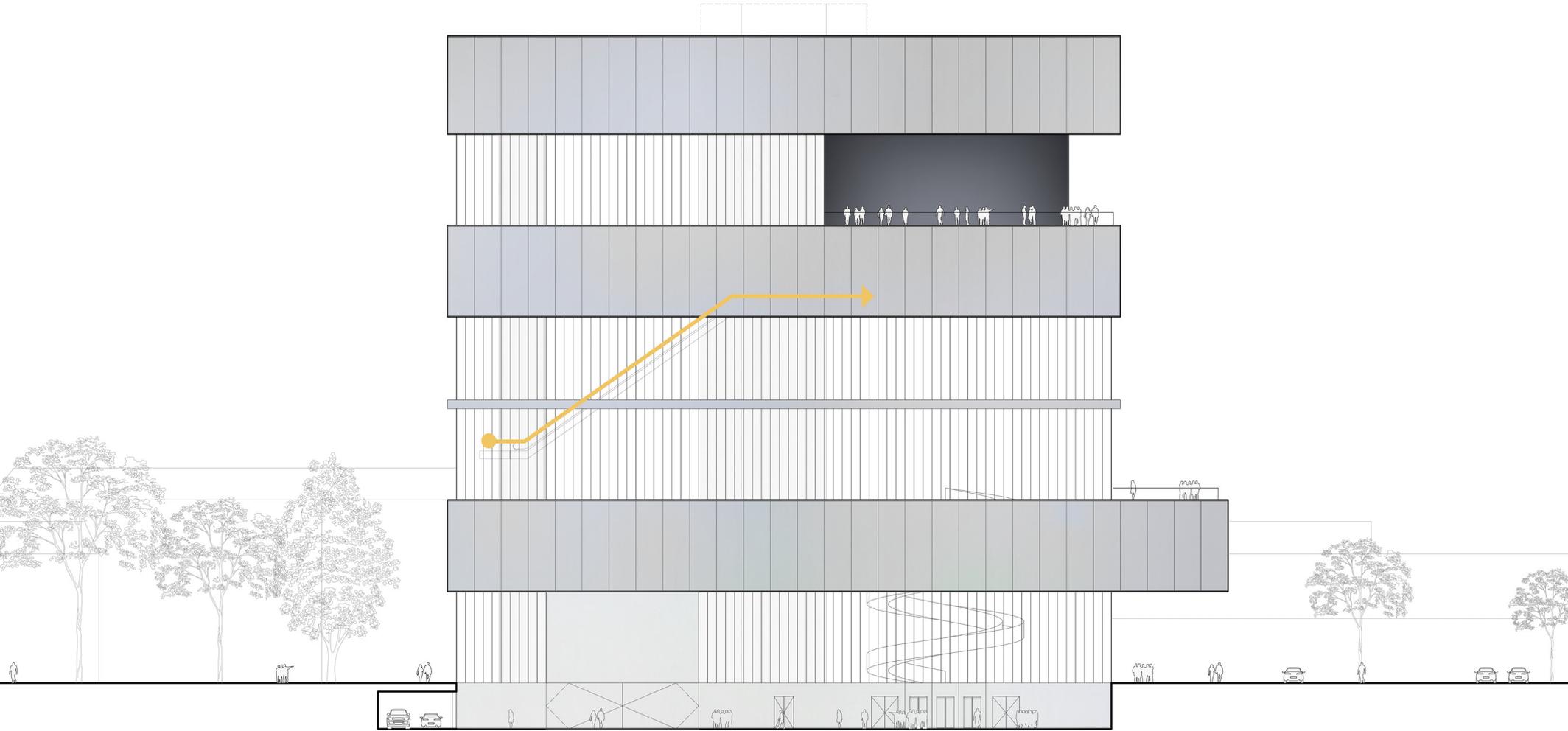
polished concrete floor

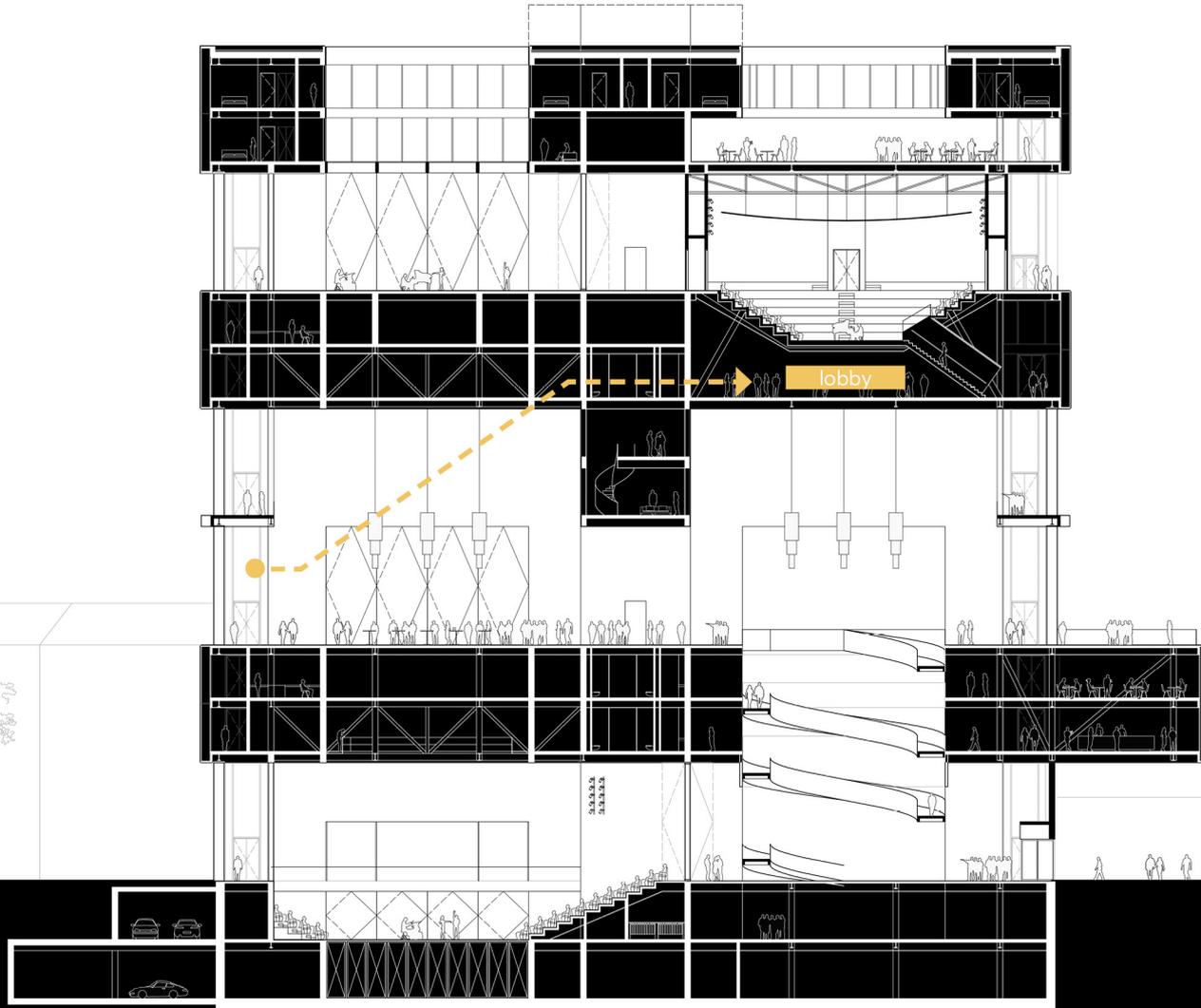


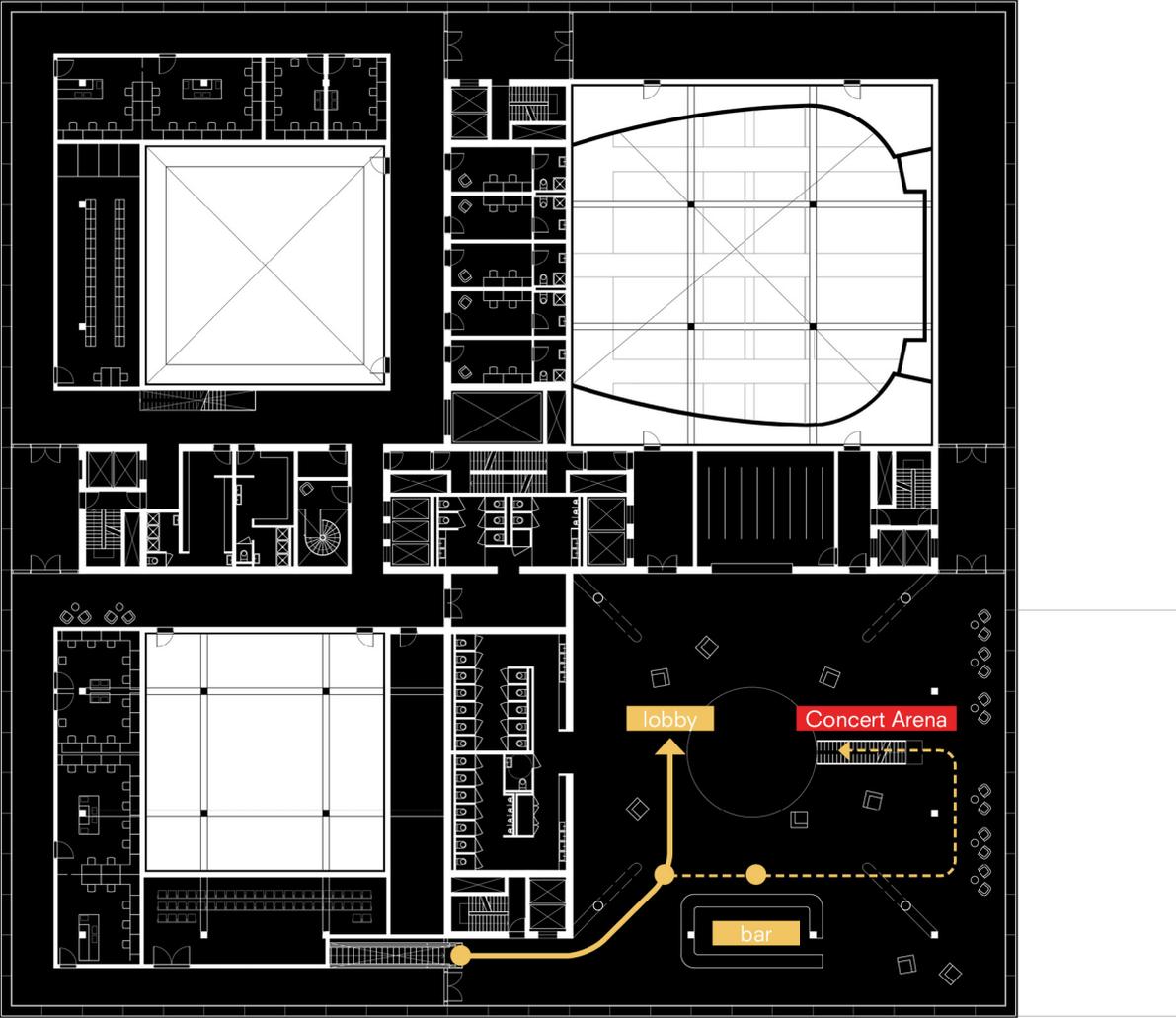




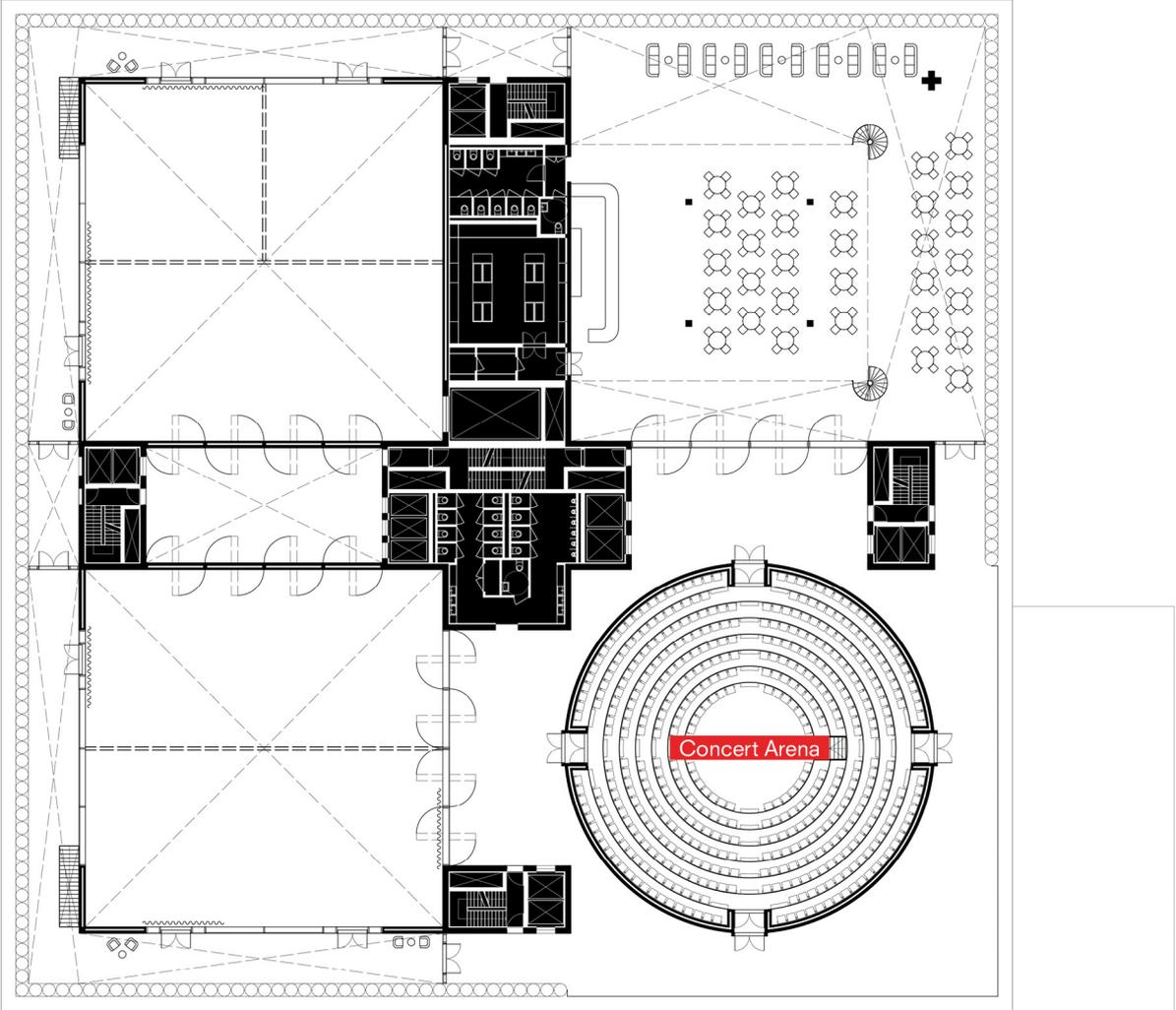
SW

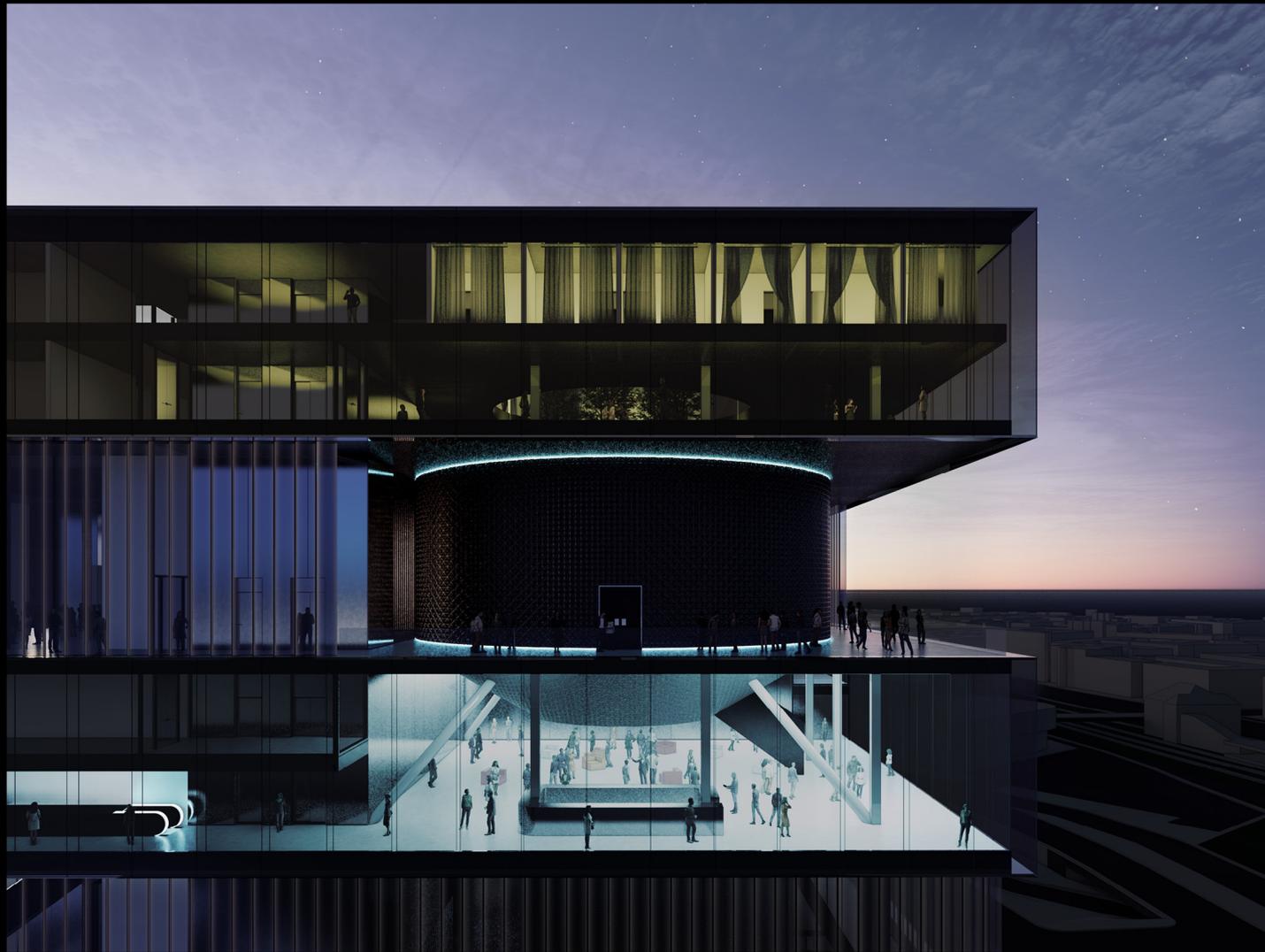


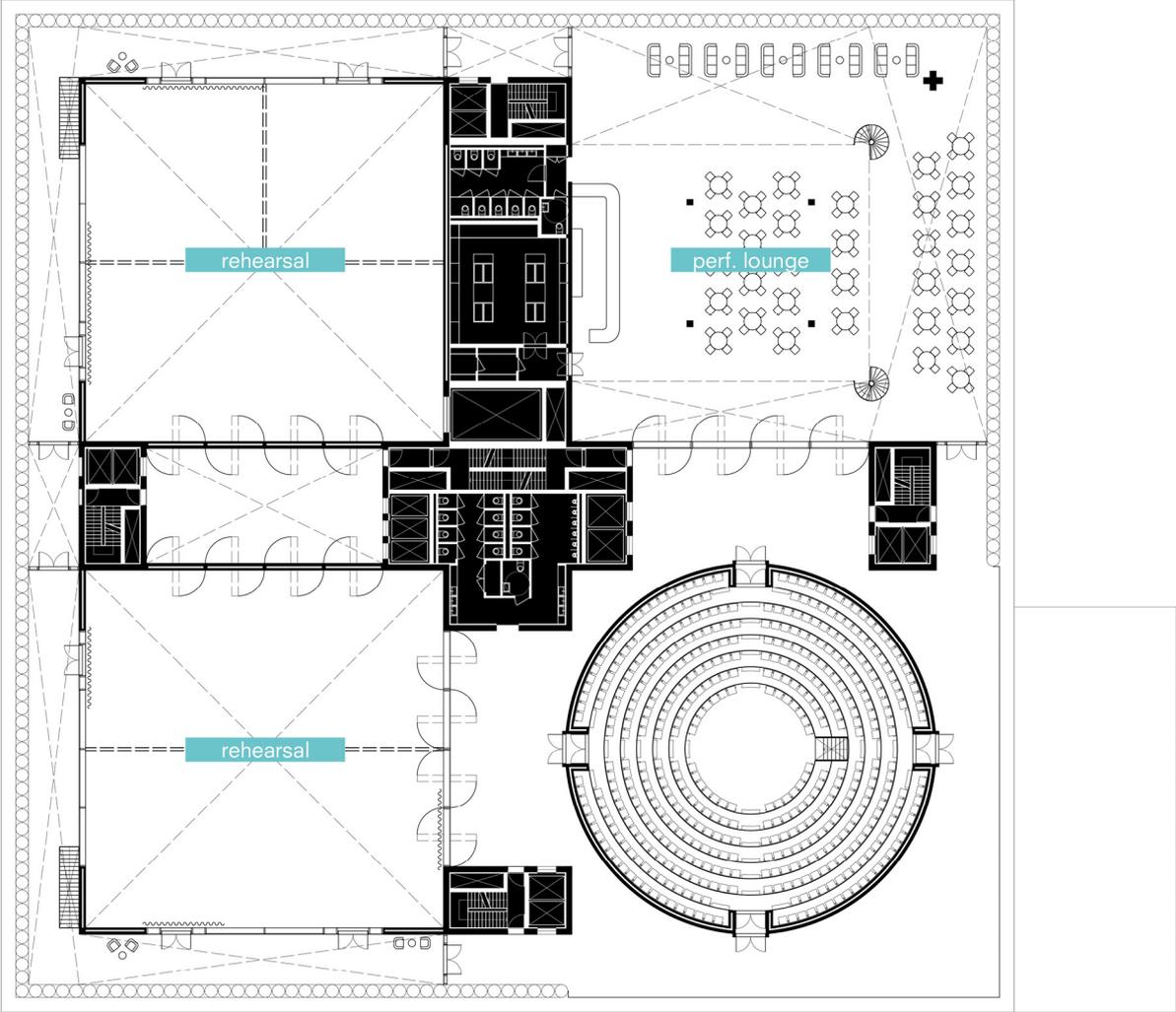




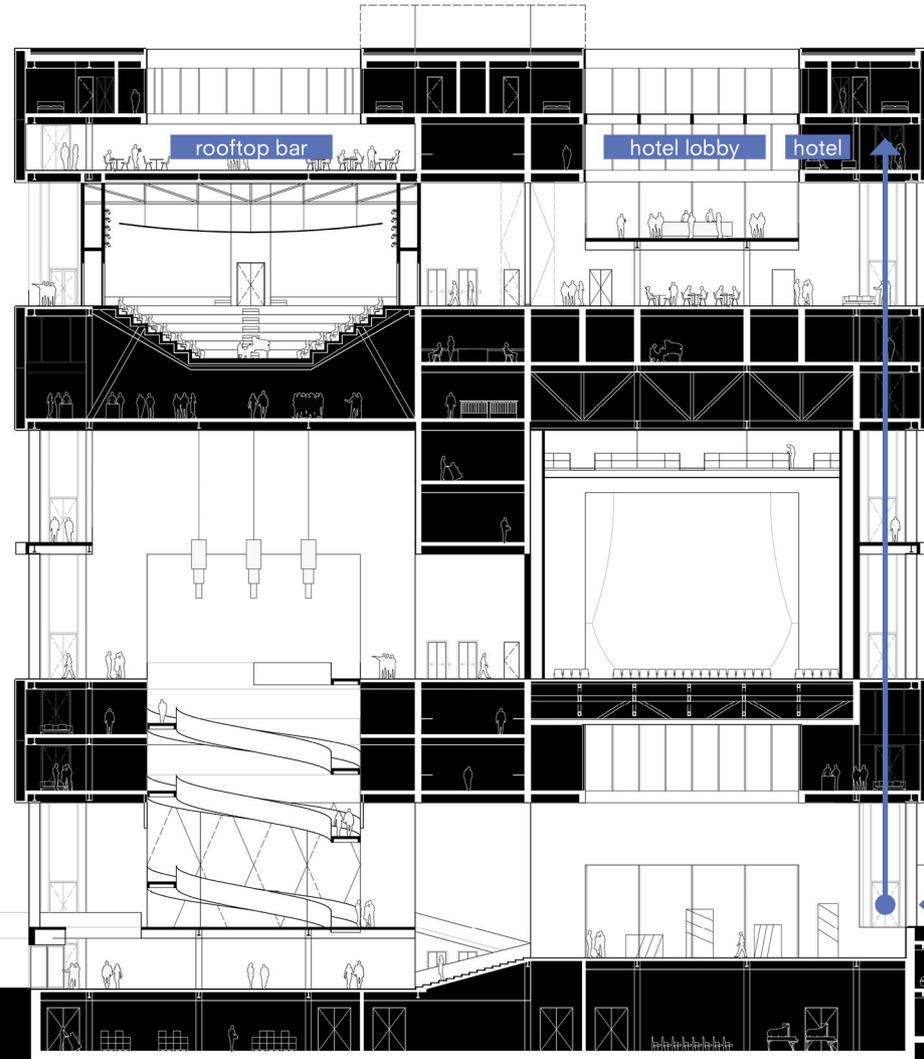




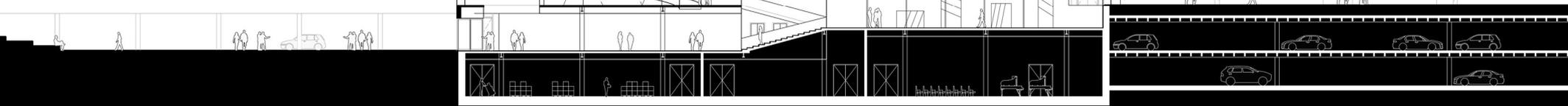
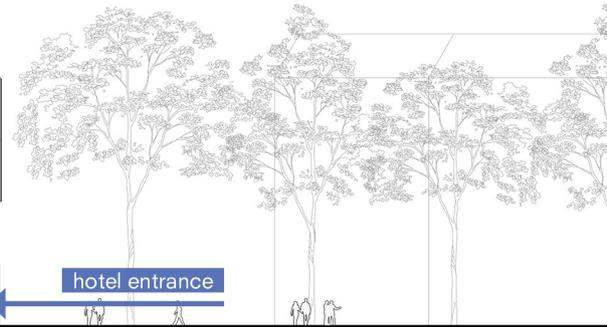
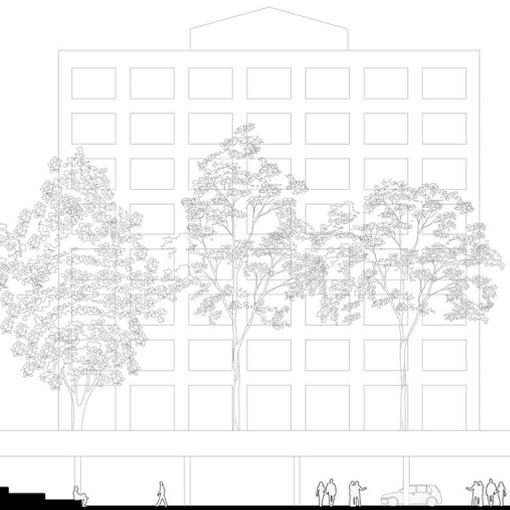


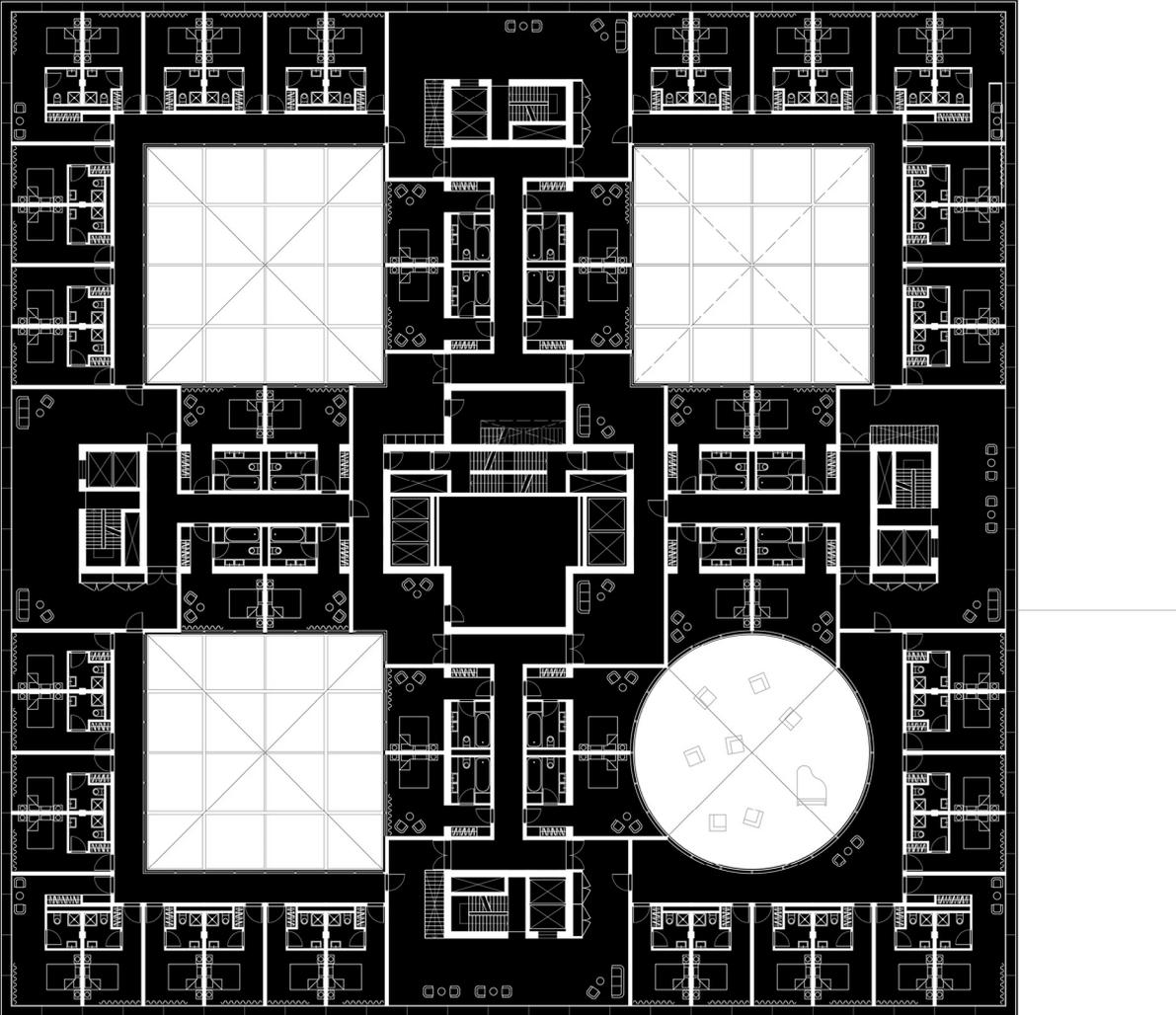


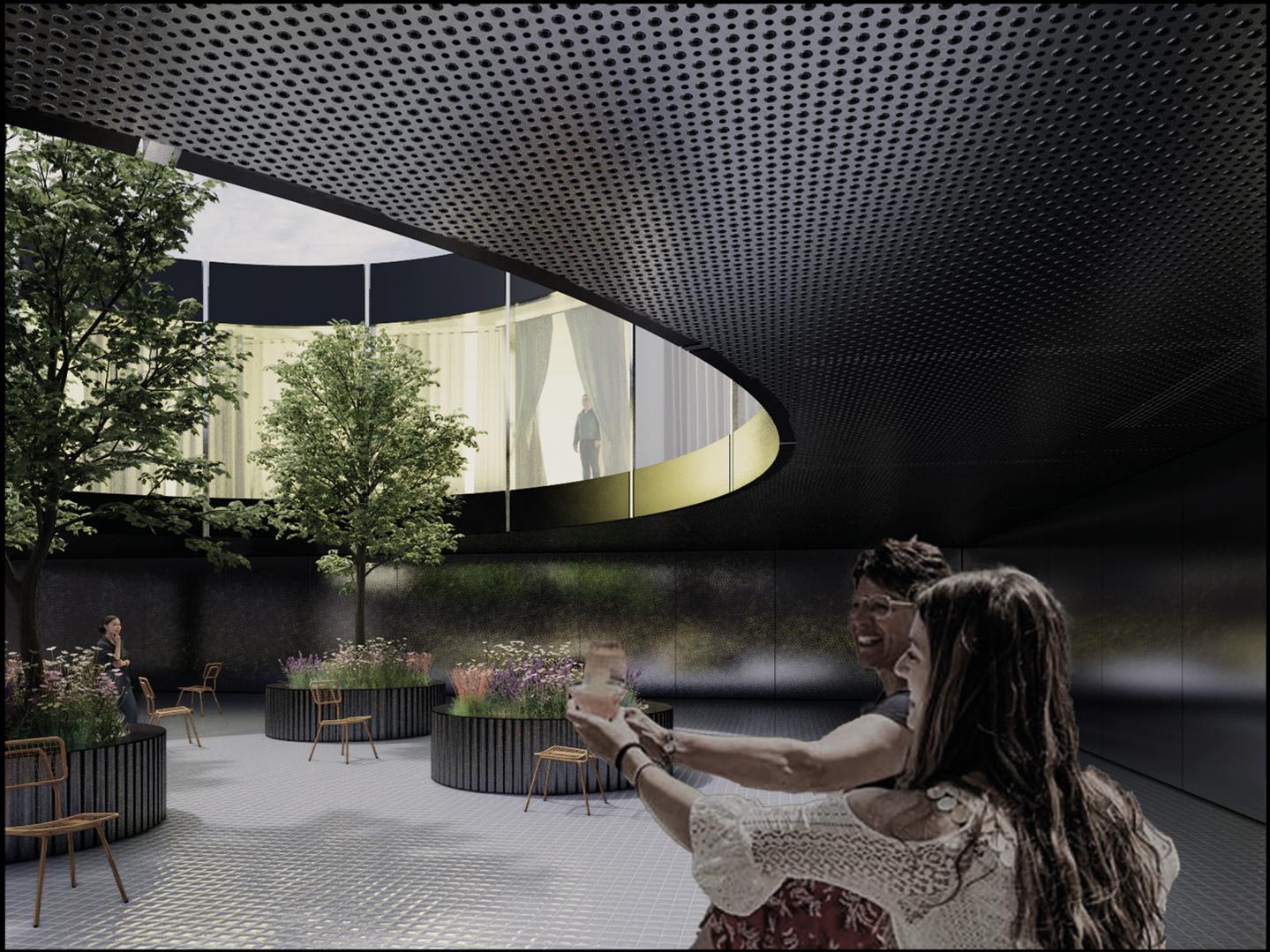


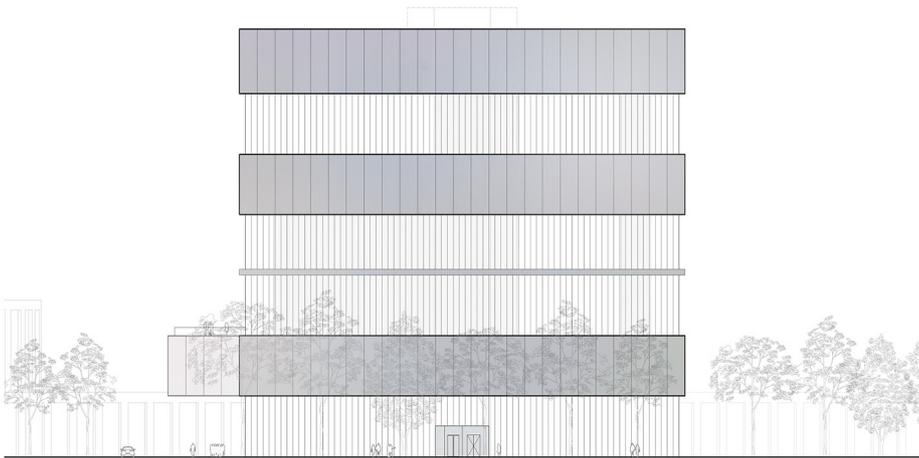


hotel entrance

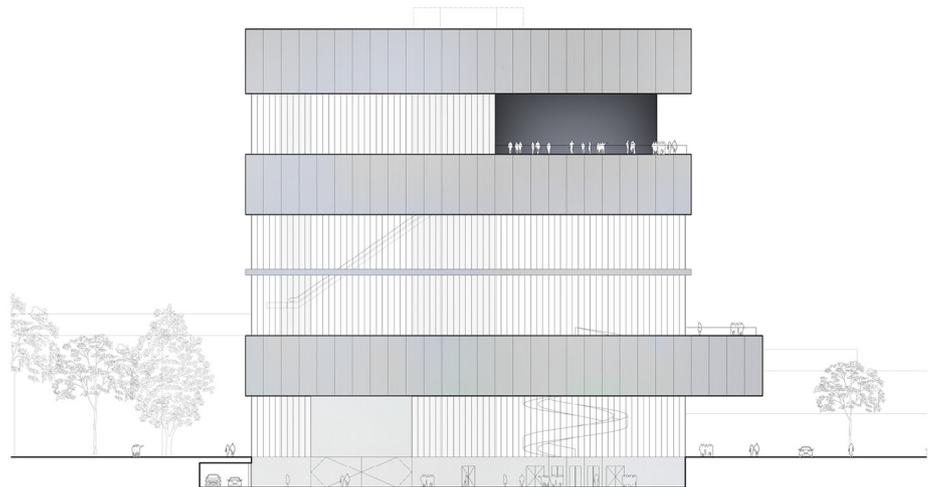




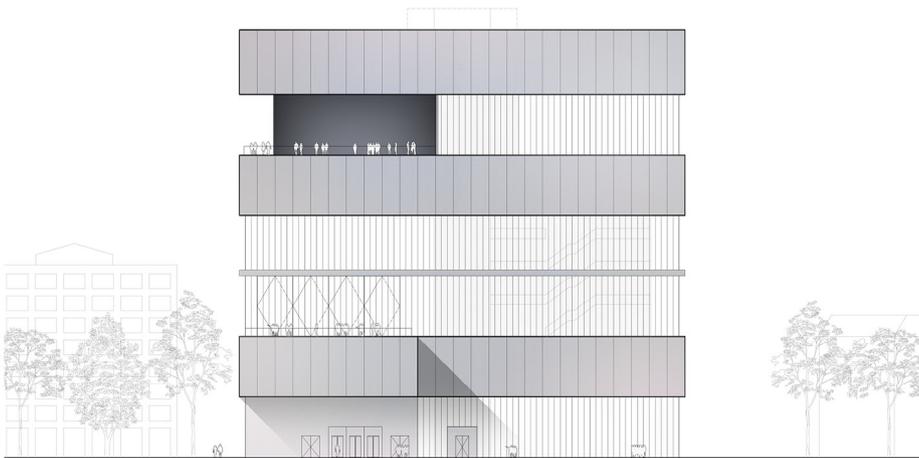




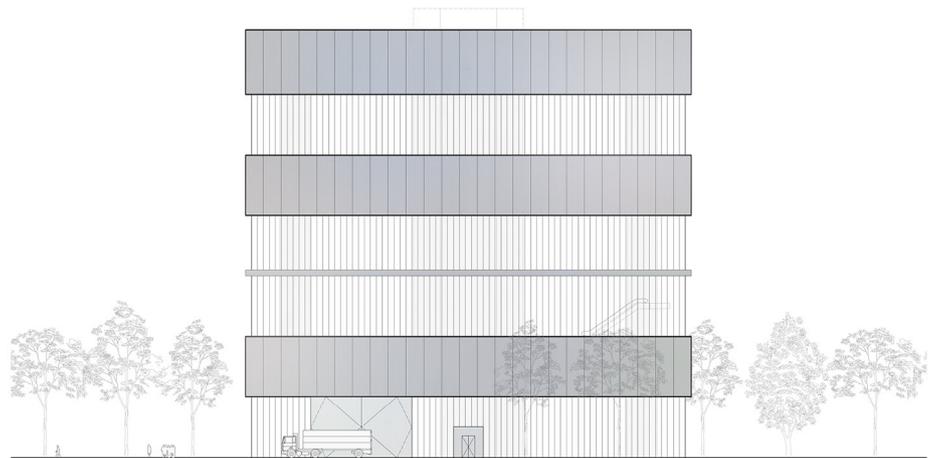
FACADE NORTH EAST



FACADE SOUTH WEST

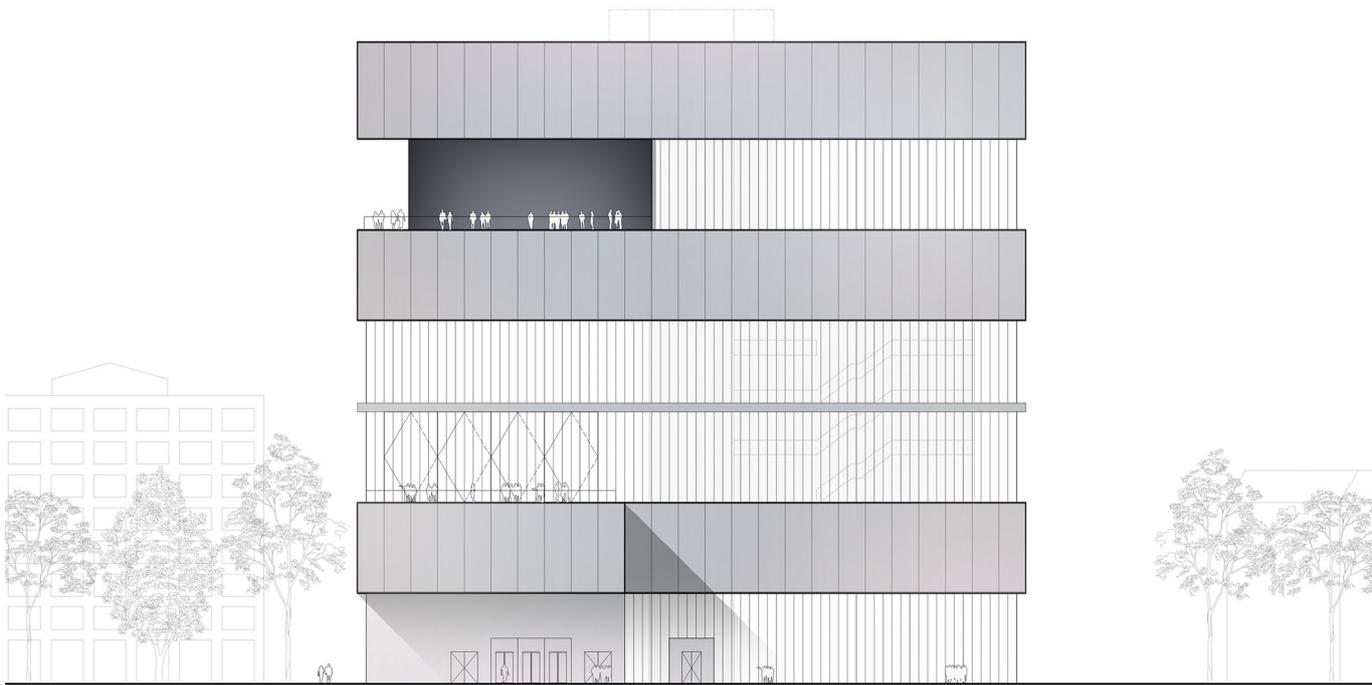


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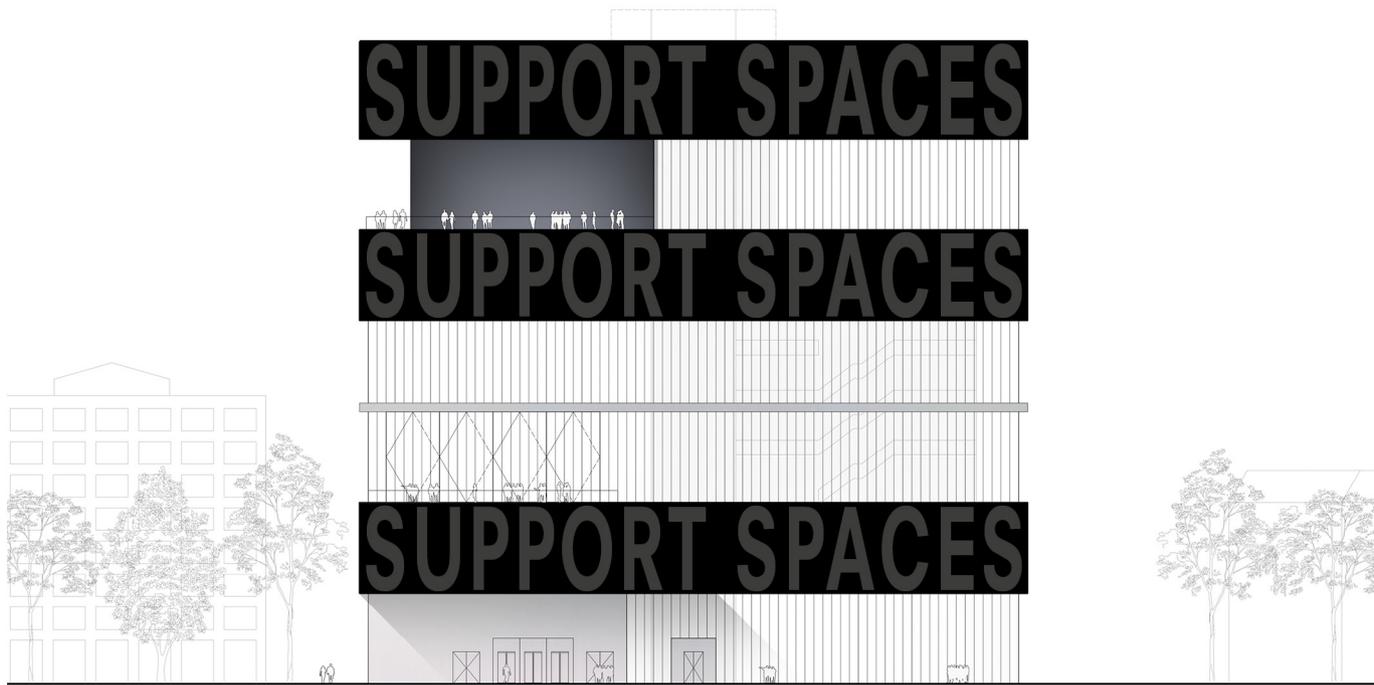


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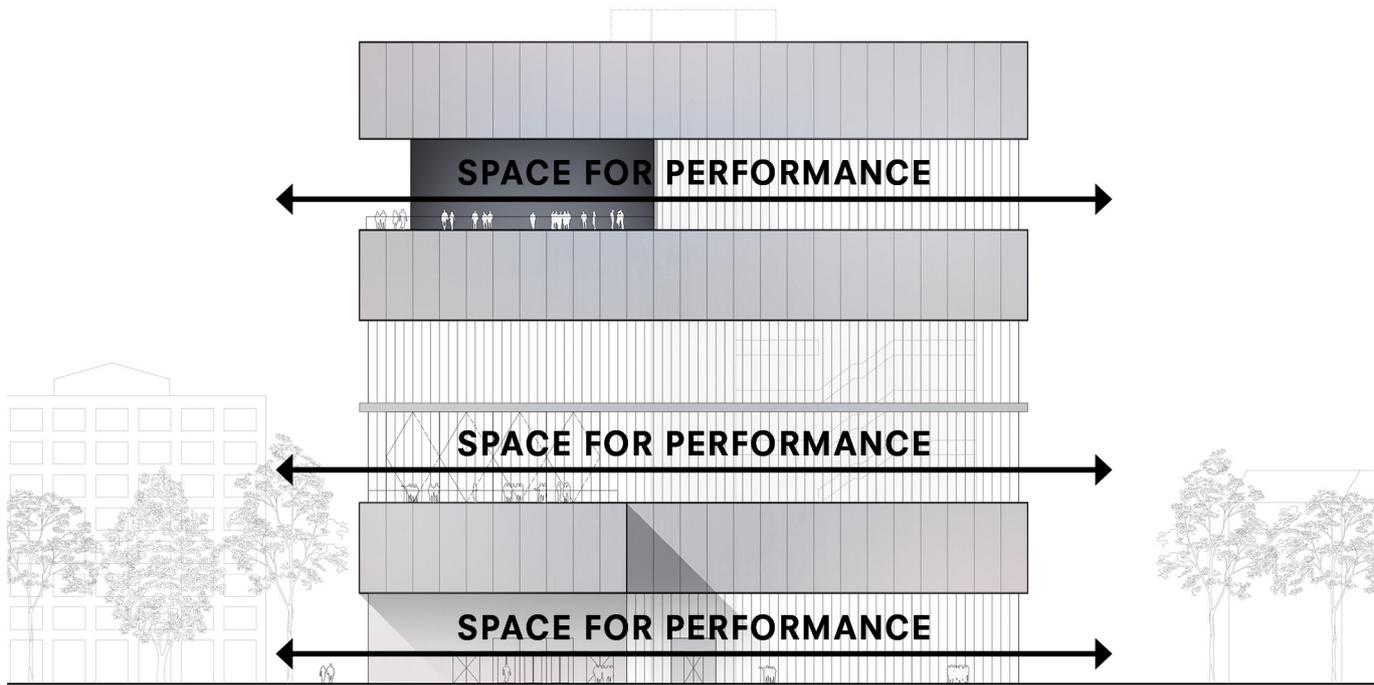




FACADE SOUTH EAST
two facade systems



FACADE SOUTH EAST
two facade systems



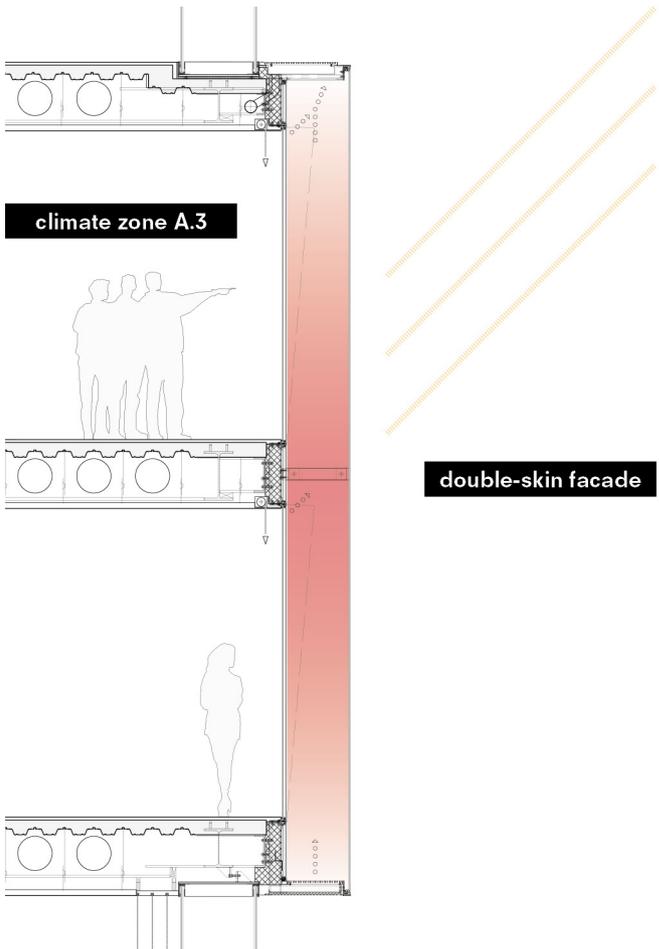
FACADE SOUTH EAST
two facade systems



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Medien

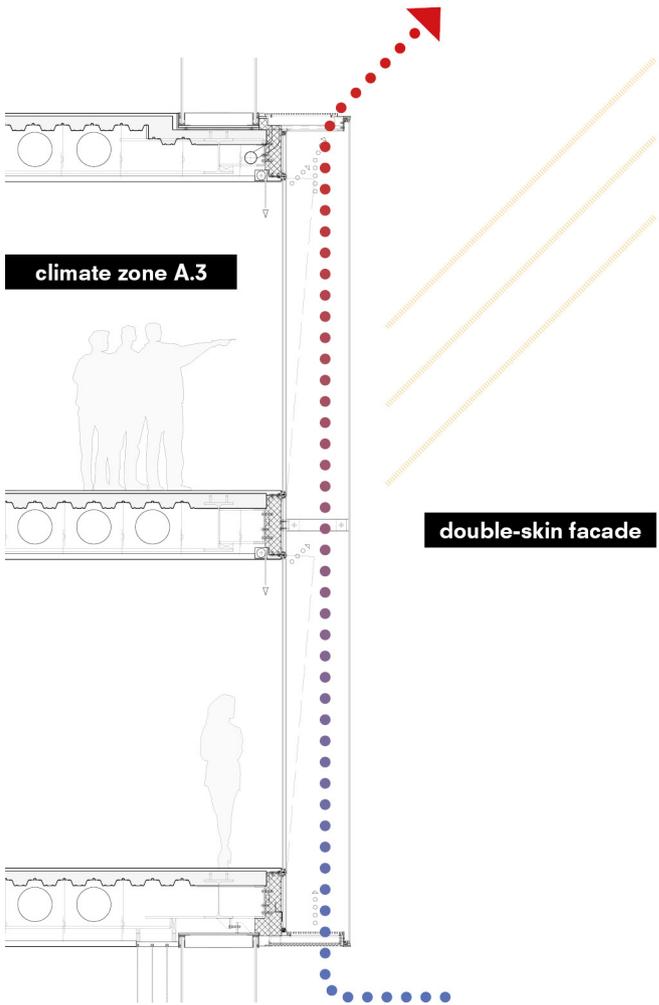
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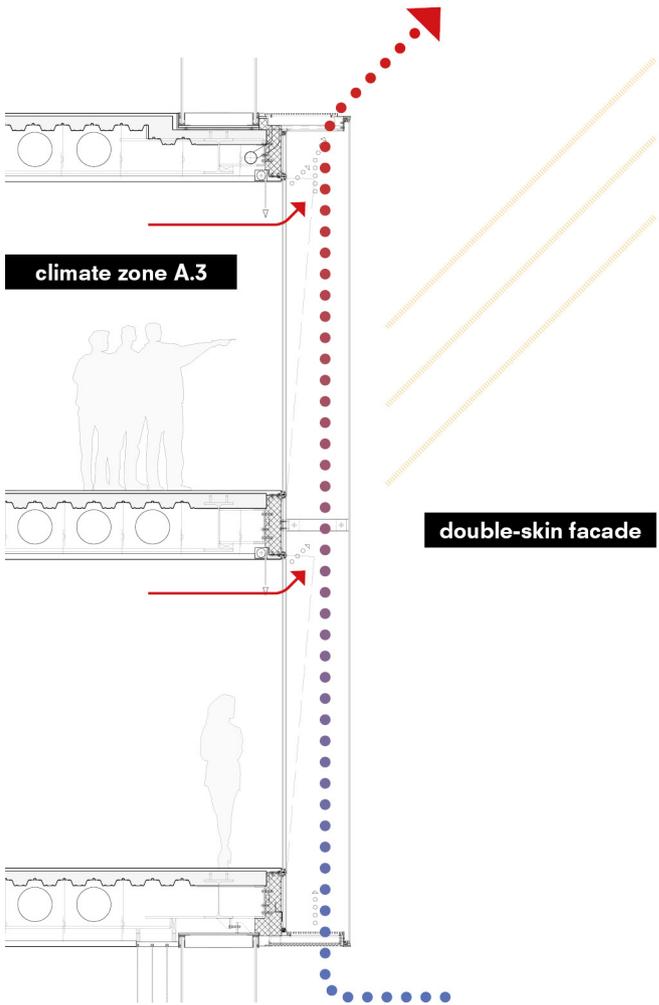


WINTER SCENARIO

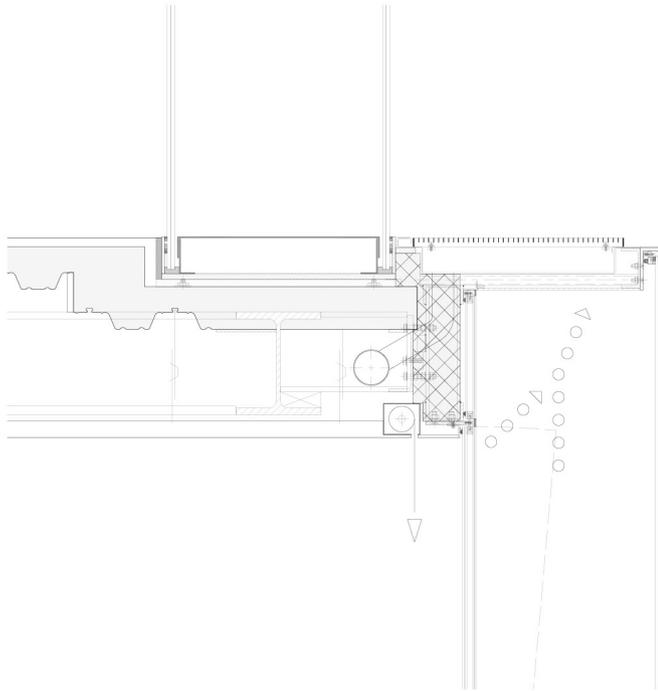
air buffer reduces the demand for indoor heating



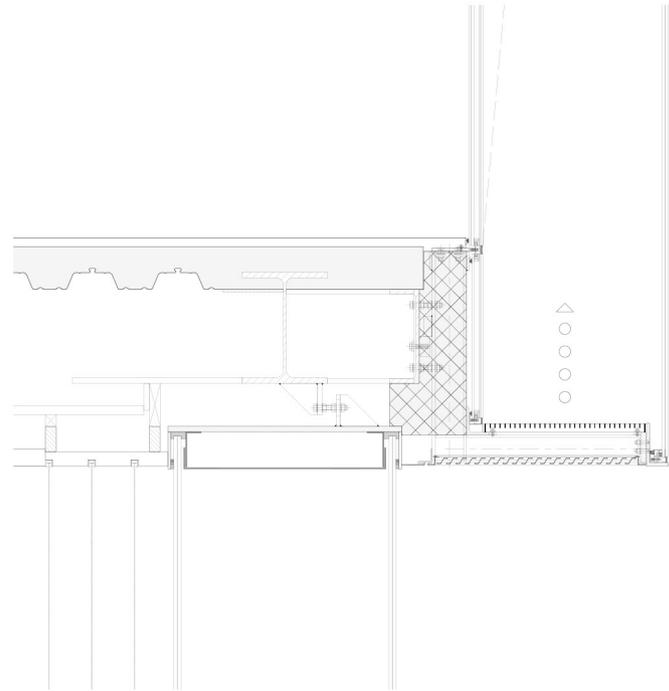
SPRING/AUTUMN SCENARIO
vented cavity to mitigate solar gain



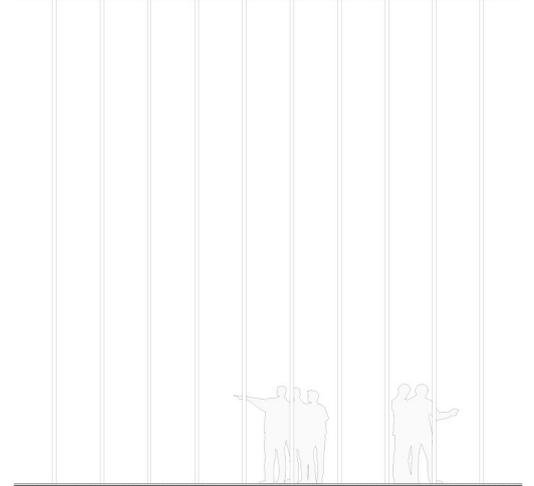
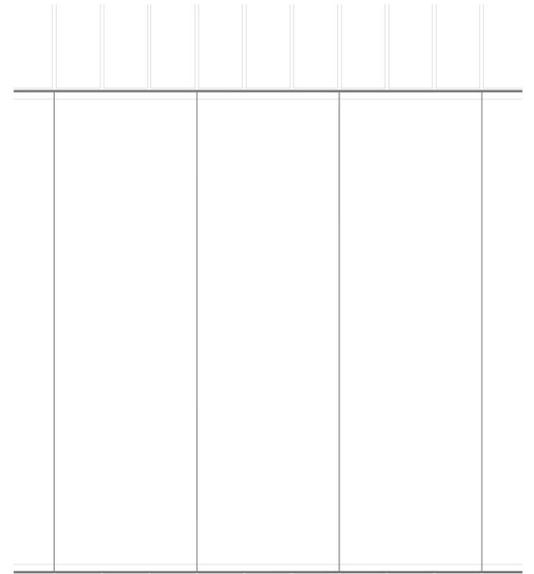
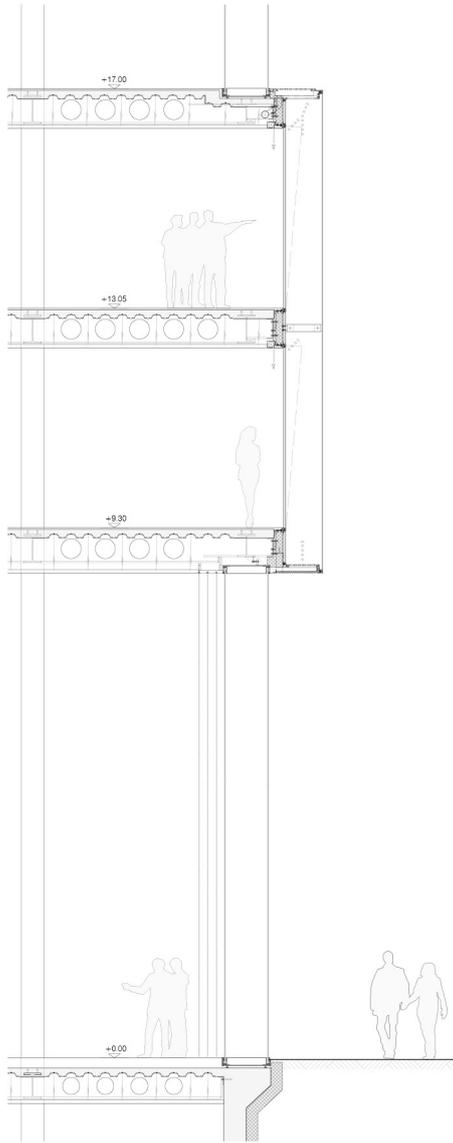
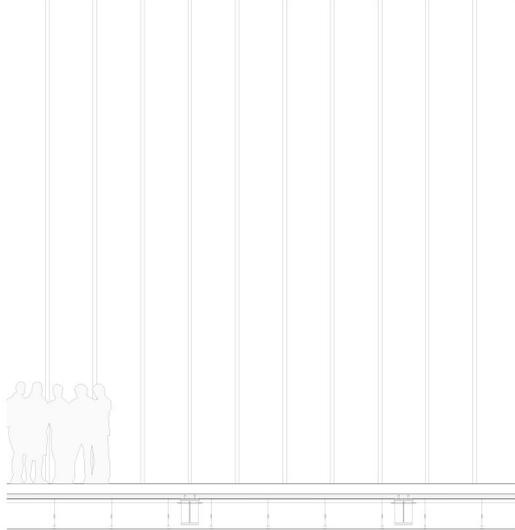
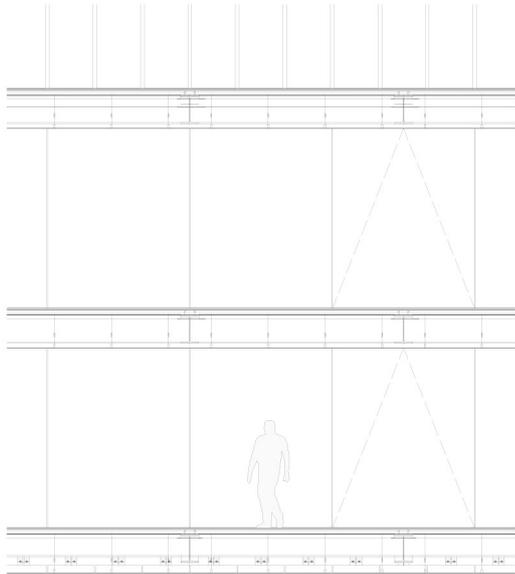
SUMMER SCENARIO
excess is drained through chimney effect



SECOND-SKIN FACADE TOP DETAIL



SECOND-SKIN FACADE BOTTOM DETAIL







mirror coating



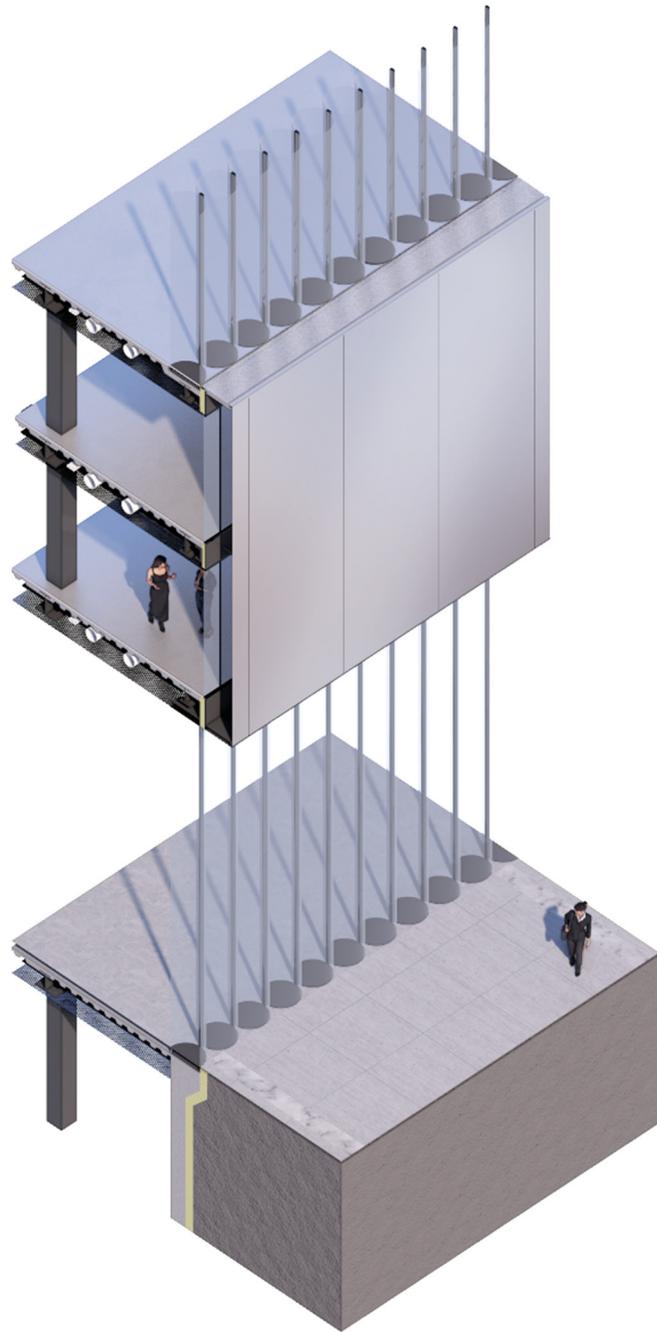
vacuum glass tubes

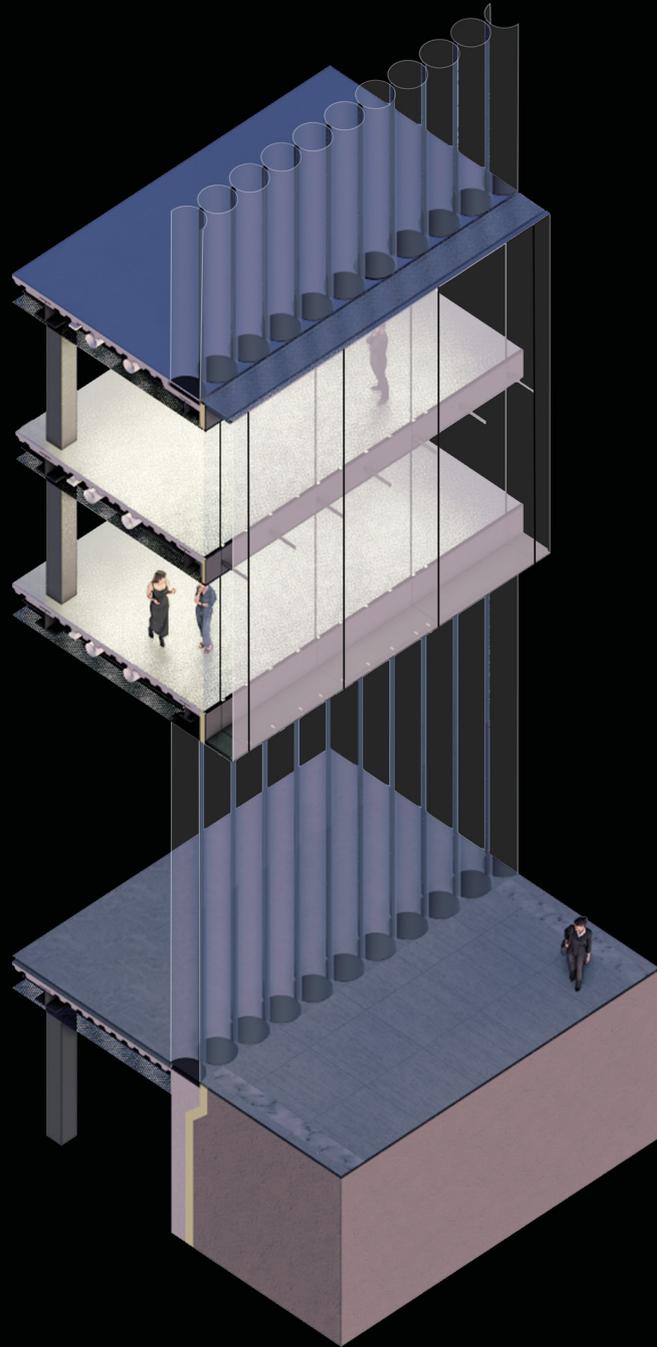


stainless steel revolving doors



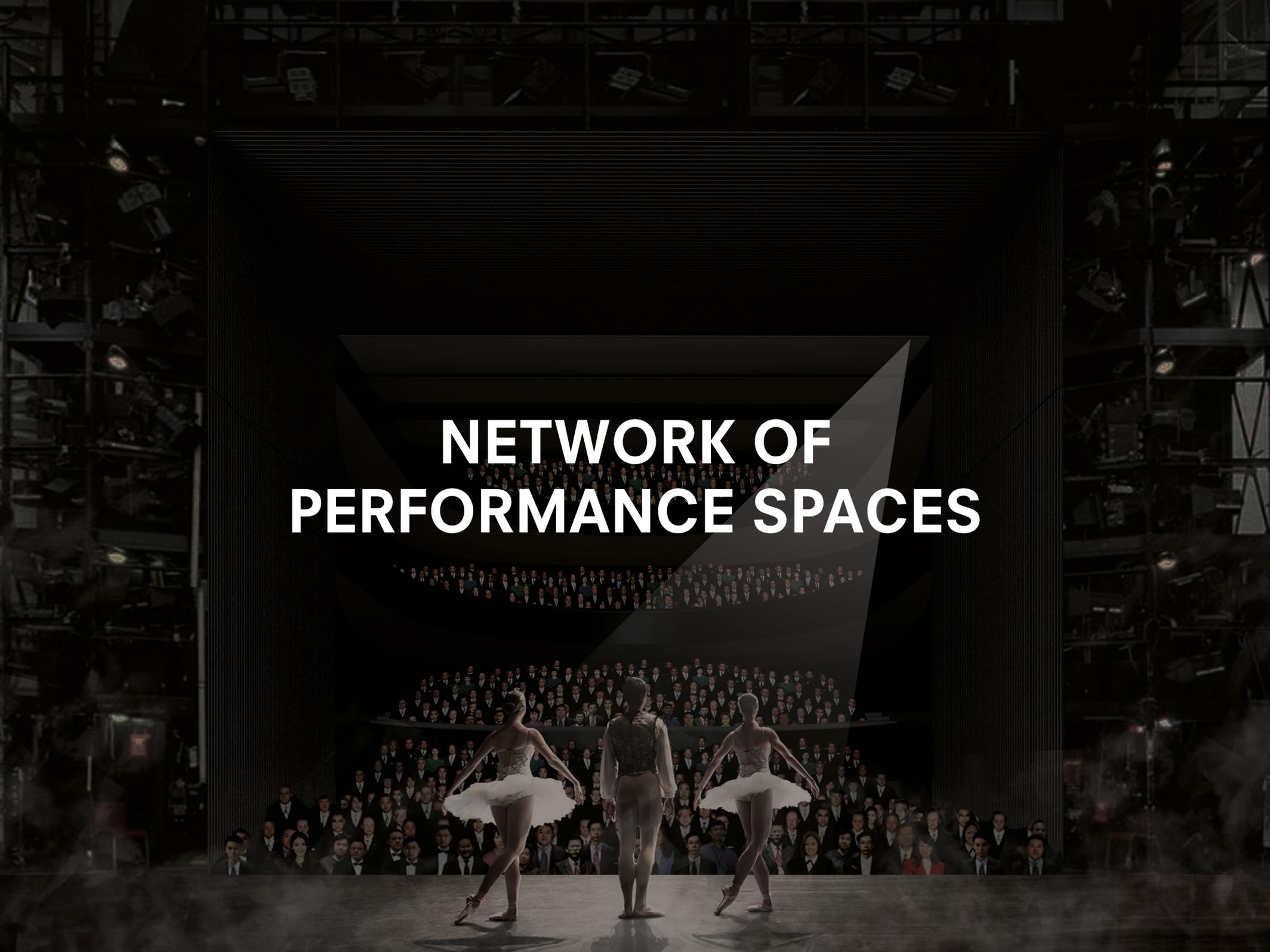
large pivot doors

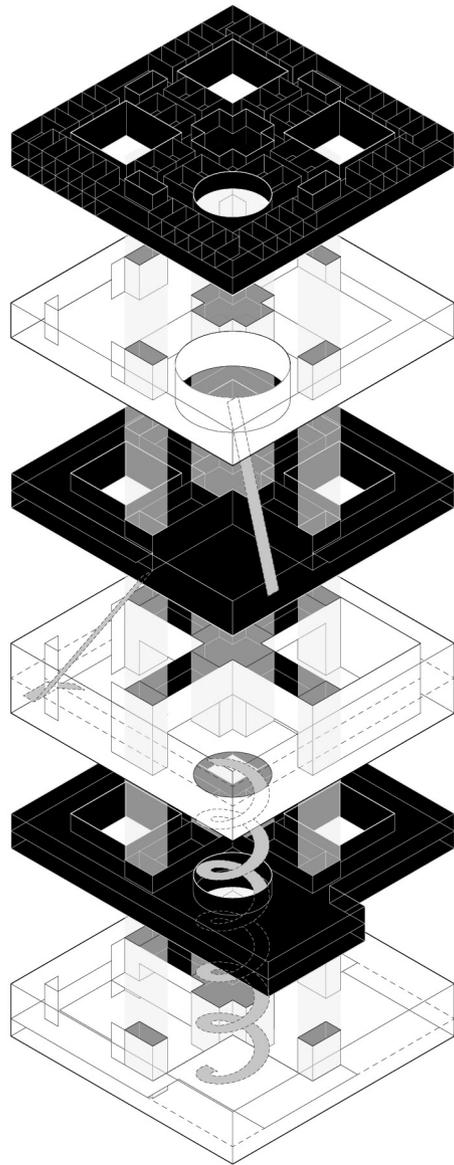




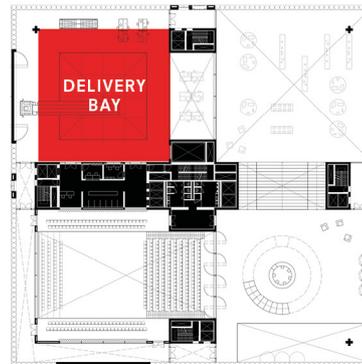
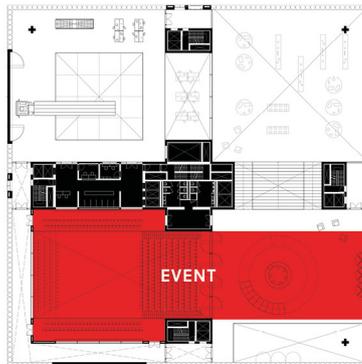
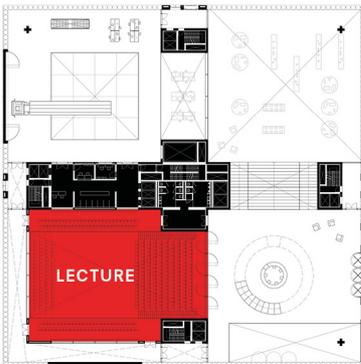
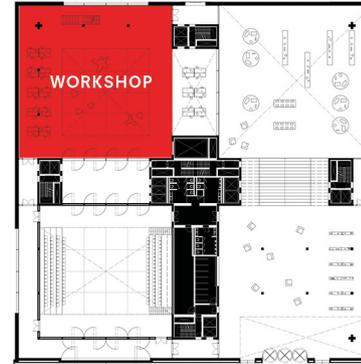
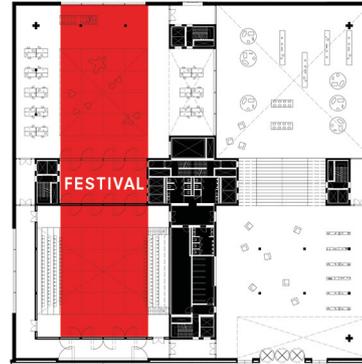
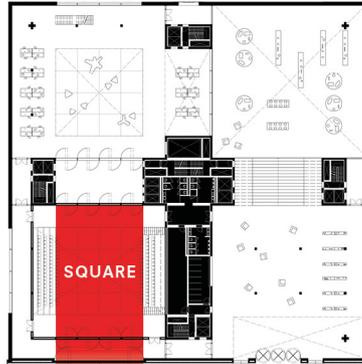
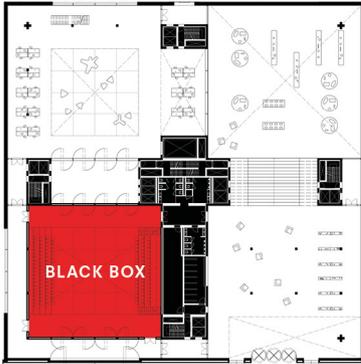


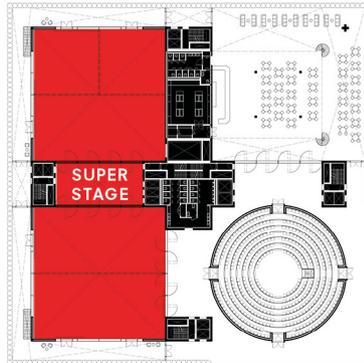
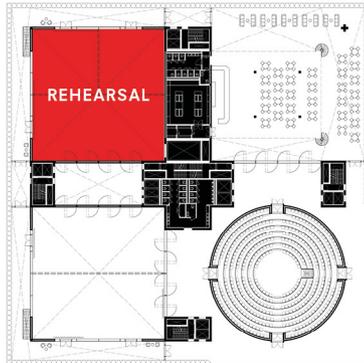
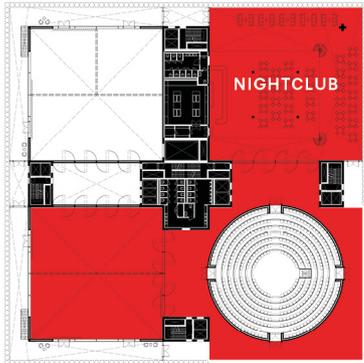
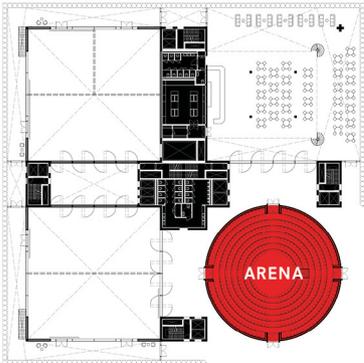
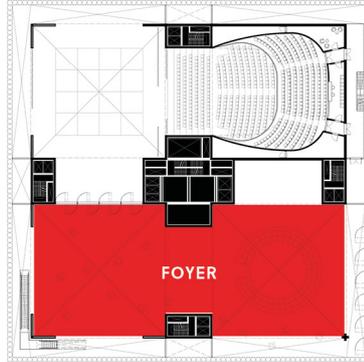
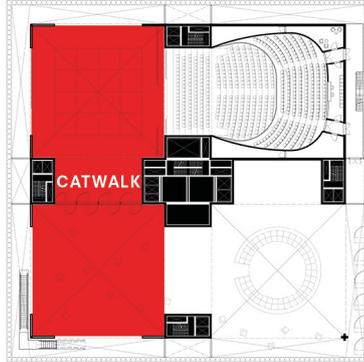
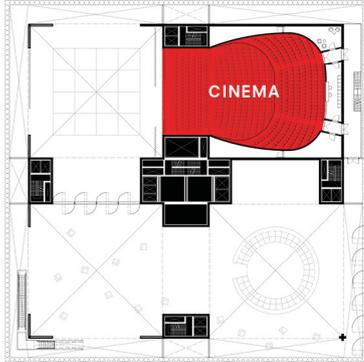
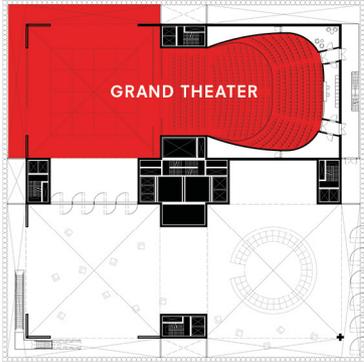
NETWORK OF PERFORMANCE SPACES

The image depicts a large, dark theater or performance space. In the foreground, three dancers are on stage: two ballerinas in white tutus and a male dancer in a dark, textured outfit. They are positioned in a line, facing away from the viewer towards the audience. The audience is a large, dense crowd of people, mostly men in suits, filling the theater. The background is a complex, dark structure of metal beams and lights, suggesting a modern, industrial-style theater. The overall lighting is dim, with spotlights highlighting the dancers and the audience.

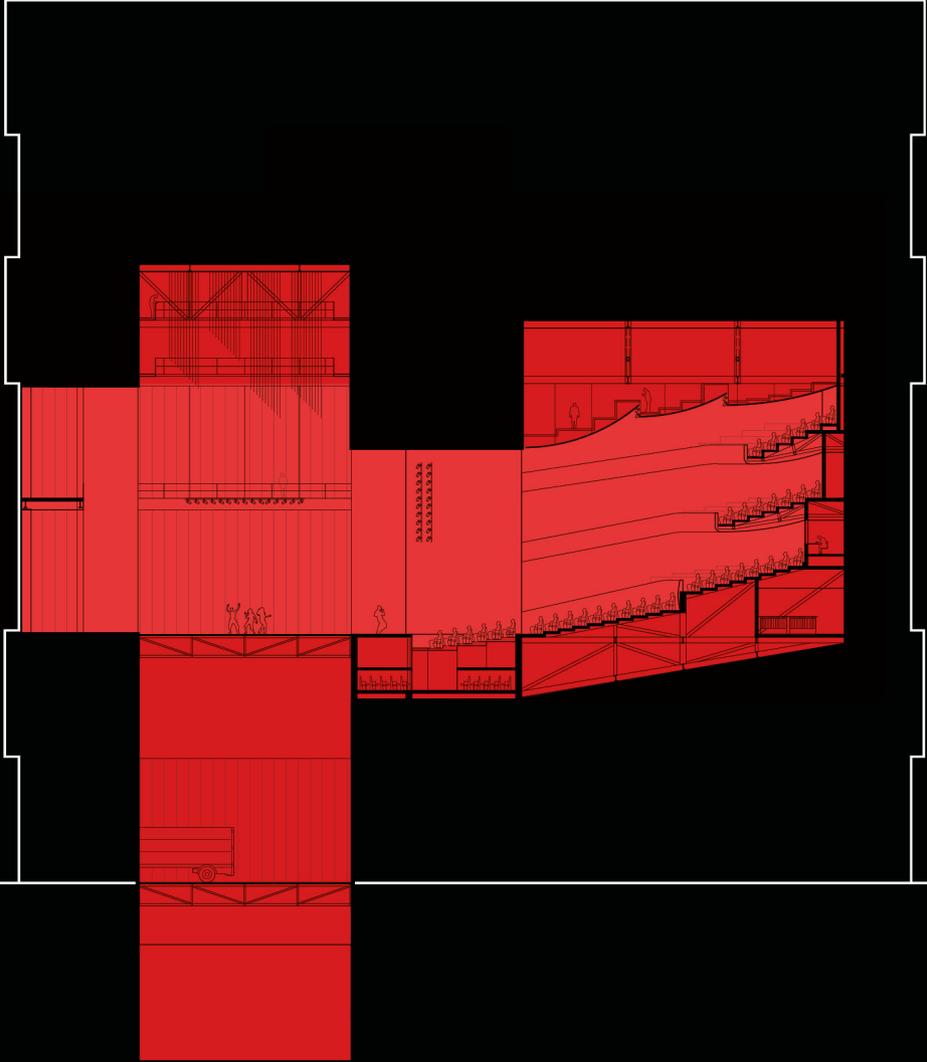


ROBUST STRUCTURE



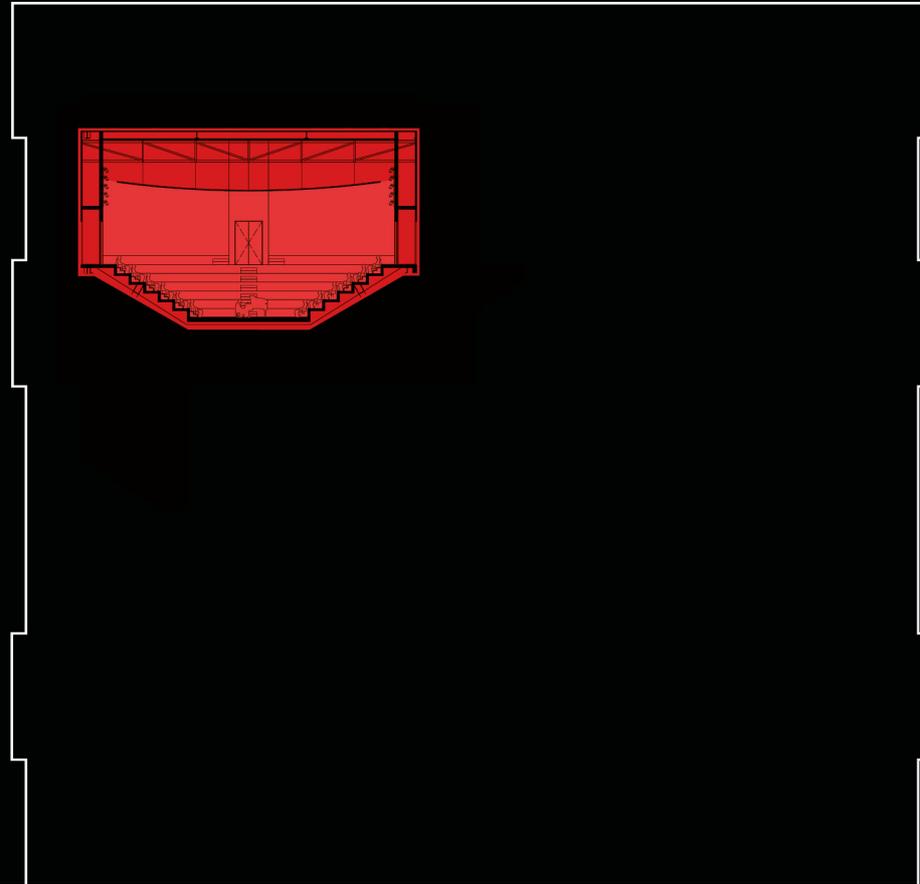


GRAND THEATER



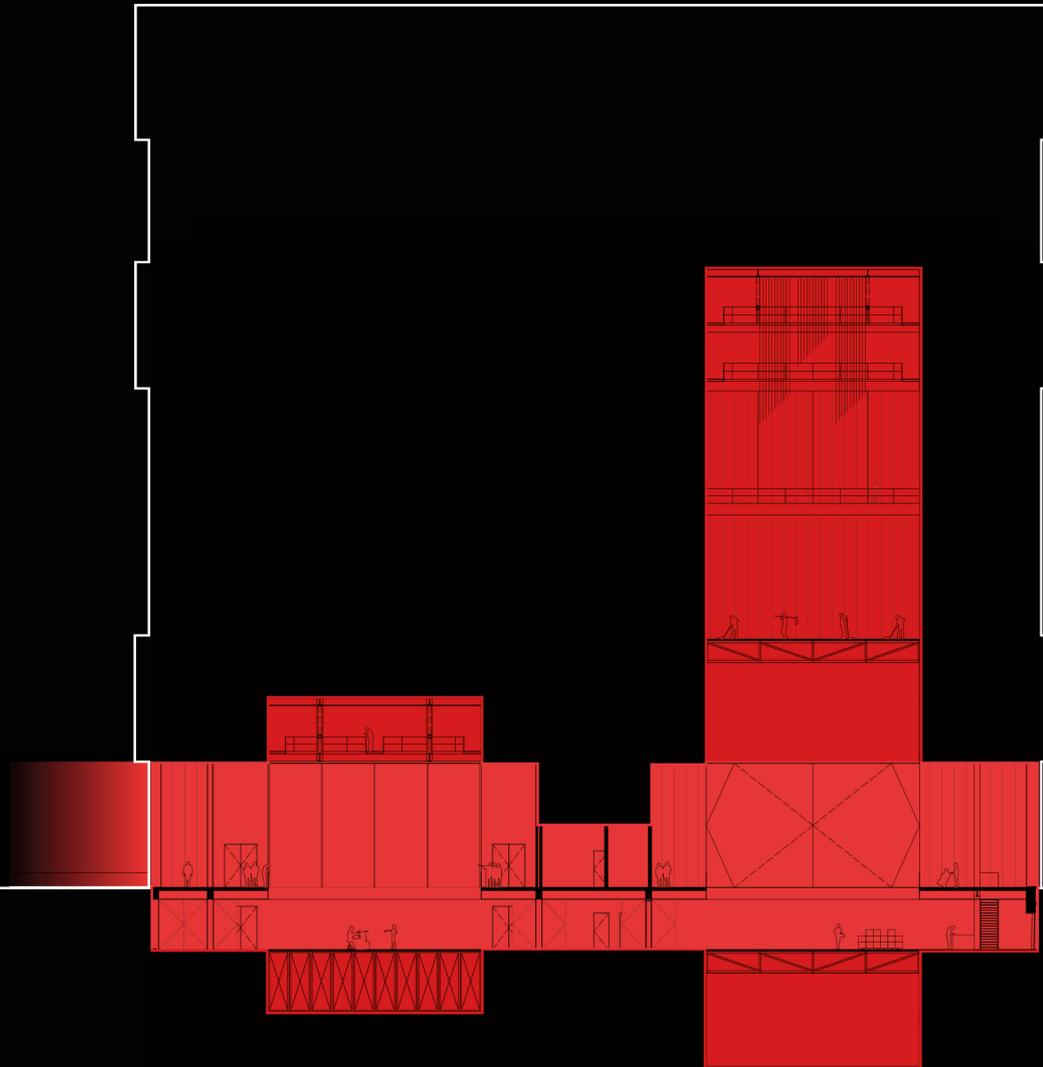


CONCERT ARENA



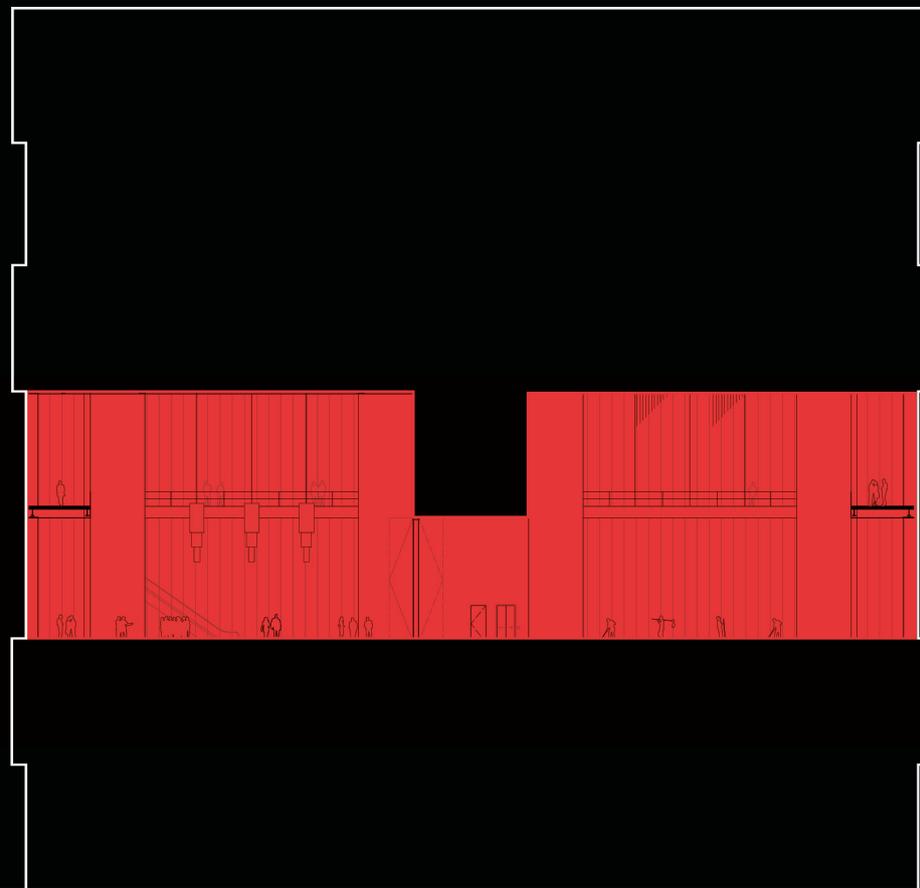


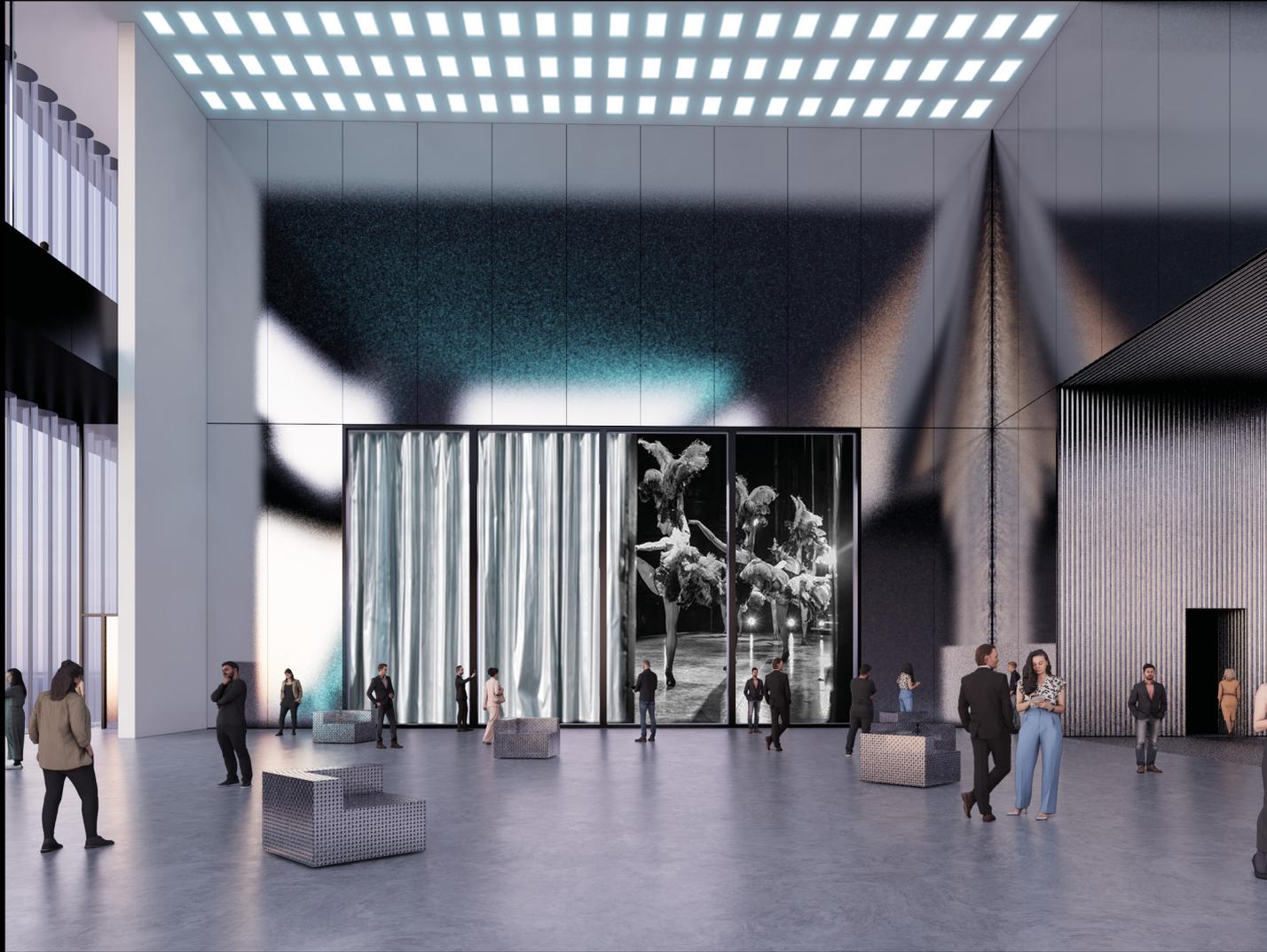
WORKSHOP & DELIVERY BAY





FOYER & BACKSTAGE

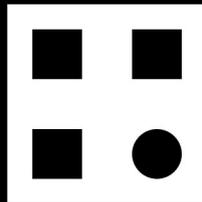






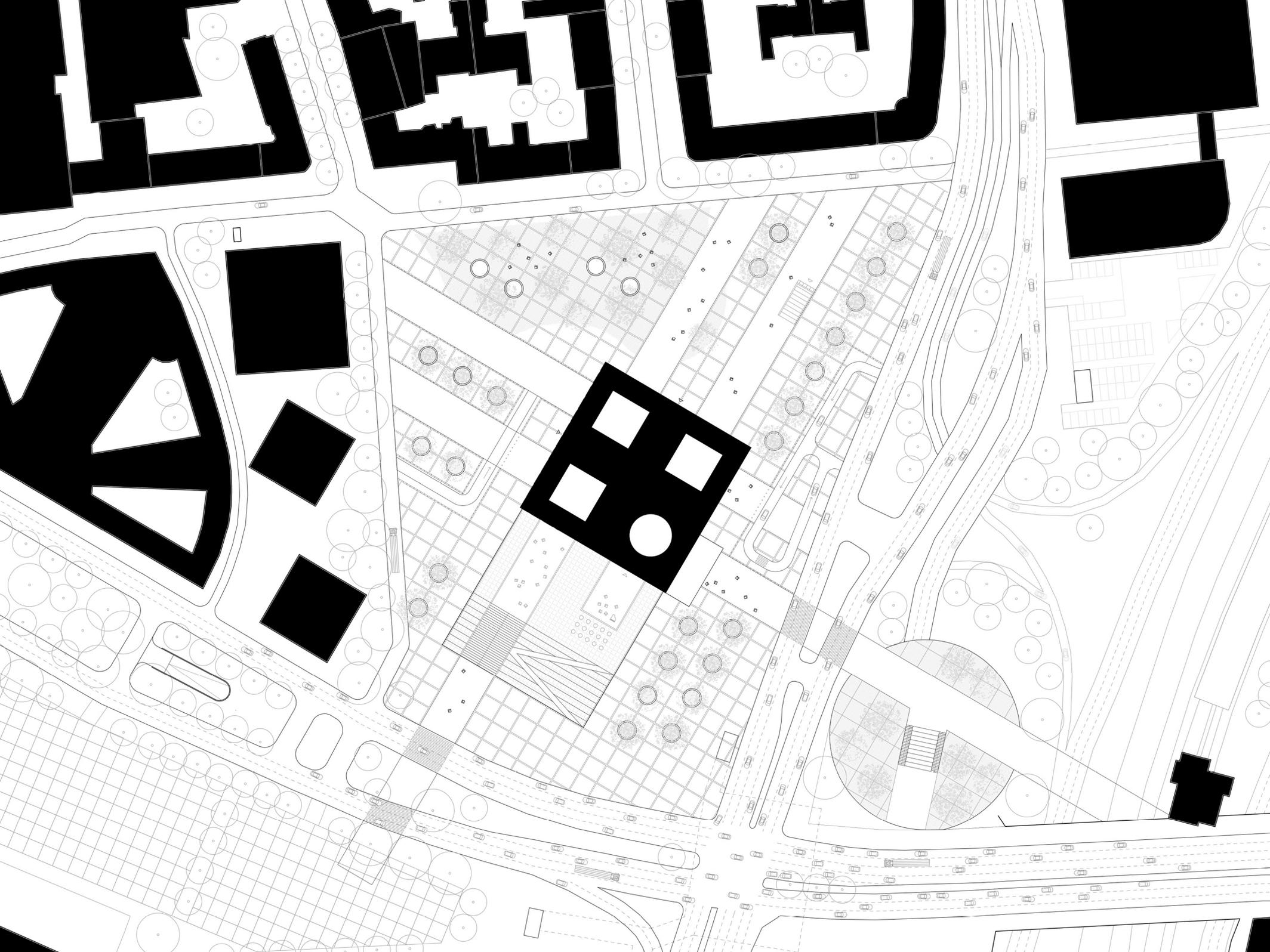


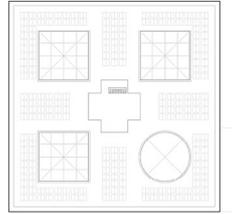
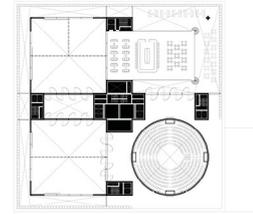
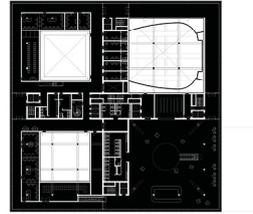
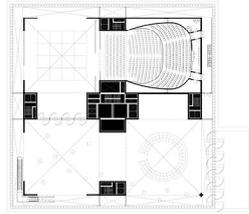
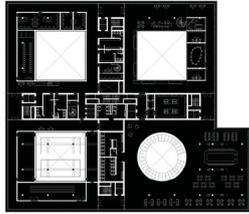
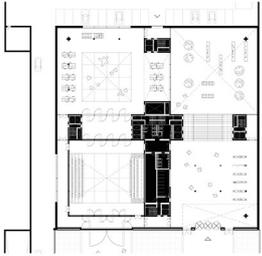
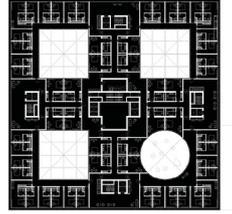
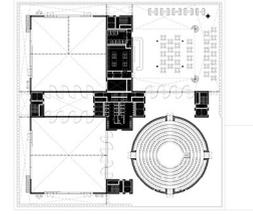
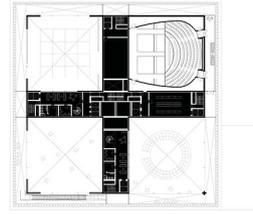
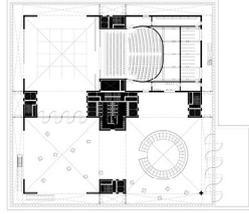
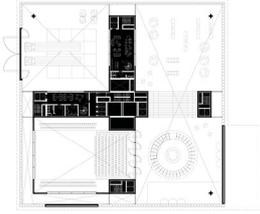
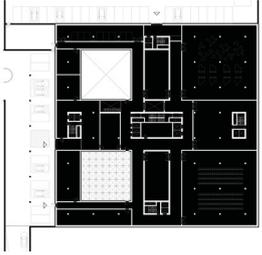
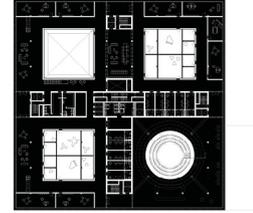
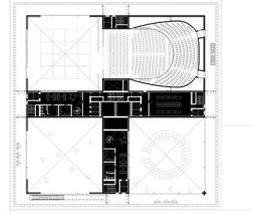
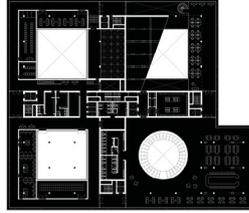
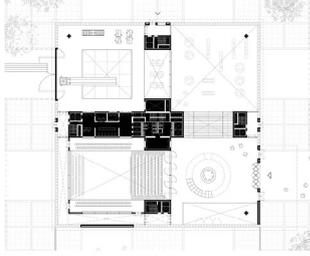
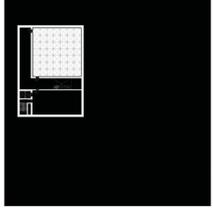




CONCLUSION









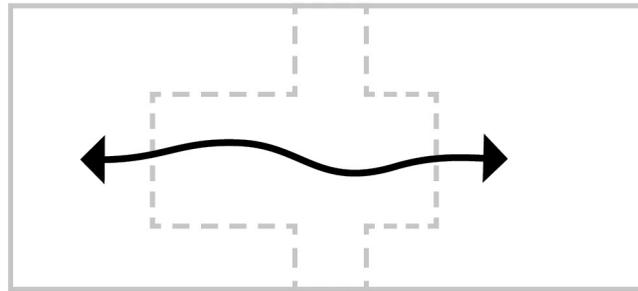




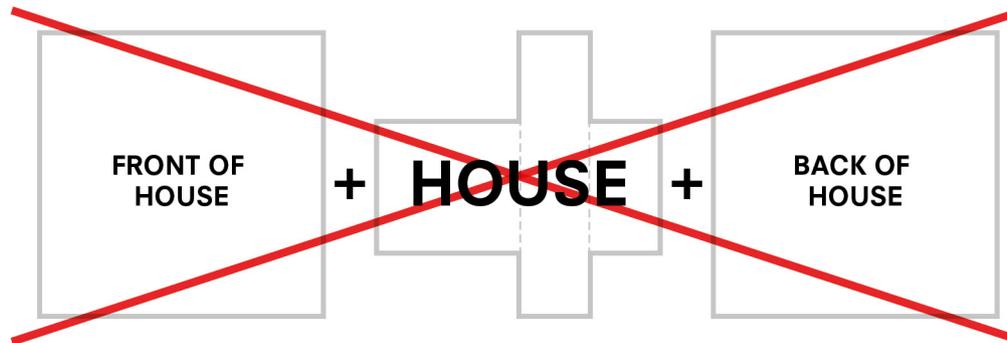
**"WHAT IS THE RELATION
BETWEEN THE PERFORMING
SPACE AND THE PERFORMANCE
ON STAGE?"**



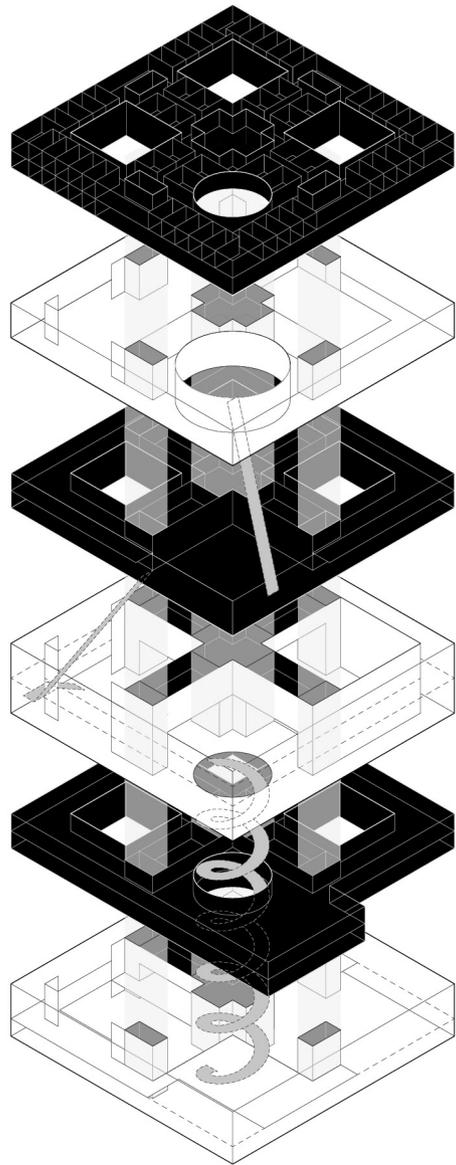
**CHALLENGE TRADITIONAL
SEATING ARRANGEMENTS**



**PUSH THE BOUNDARIES
OF PERFORMING SPACES**



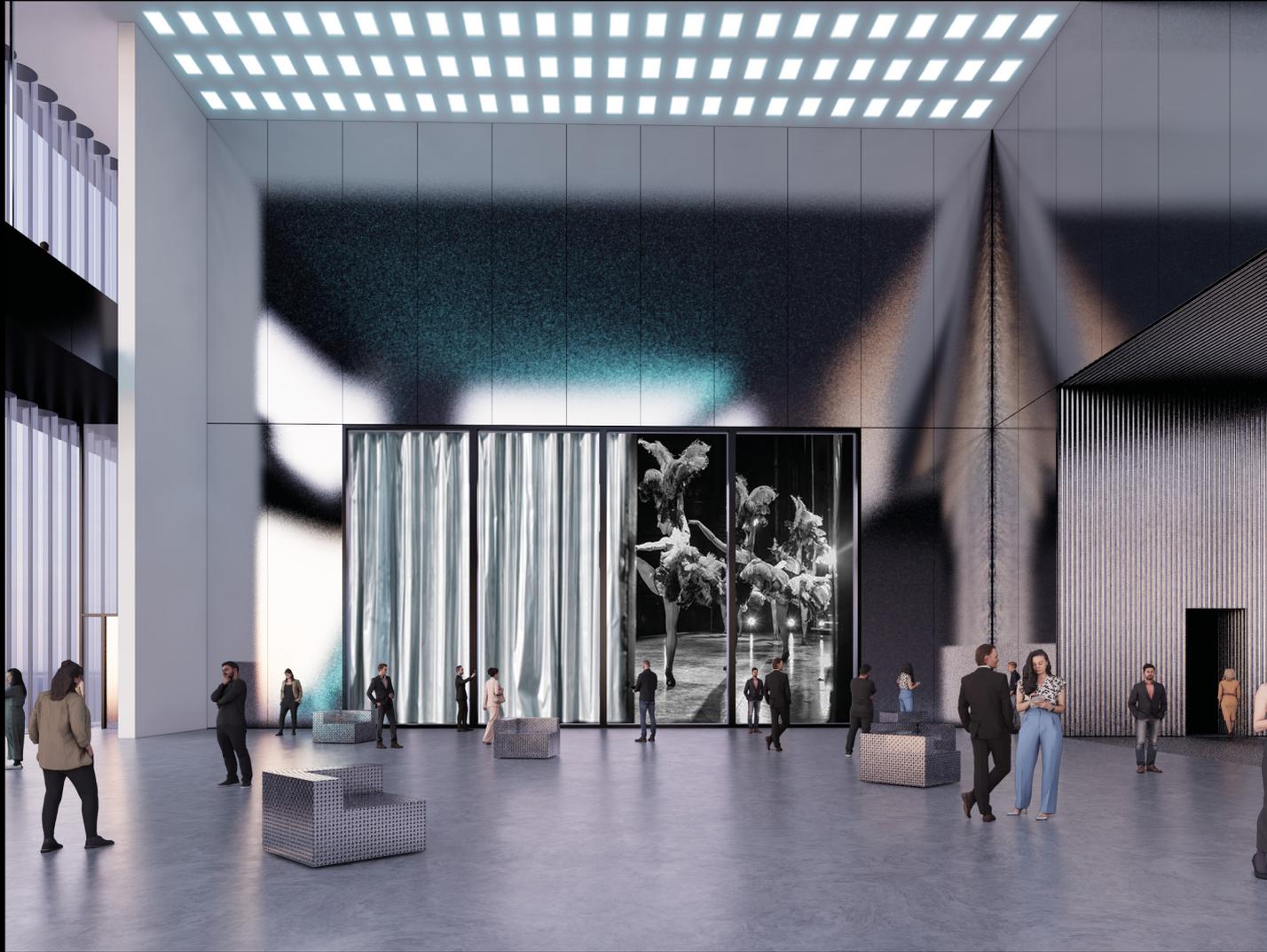
**DEVIATES FROM PREVAILING
CONCEPTION OF THEATER ORGANISATION**



ROBUST STRUCTURE



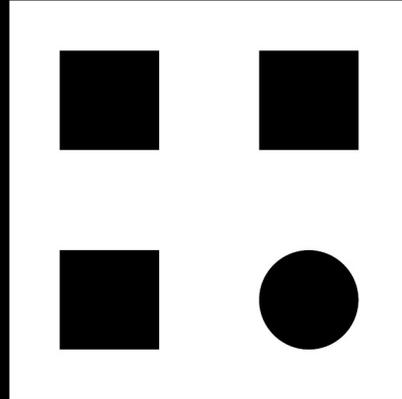












Thank you.