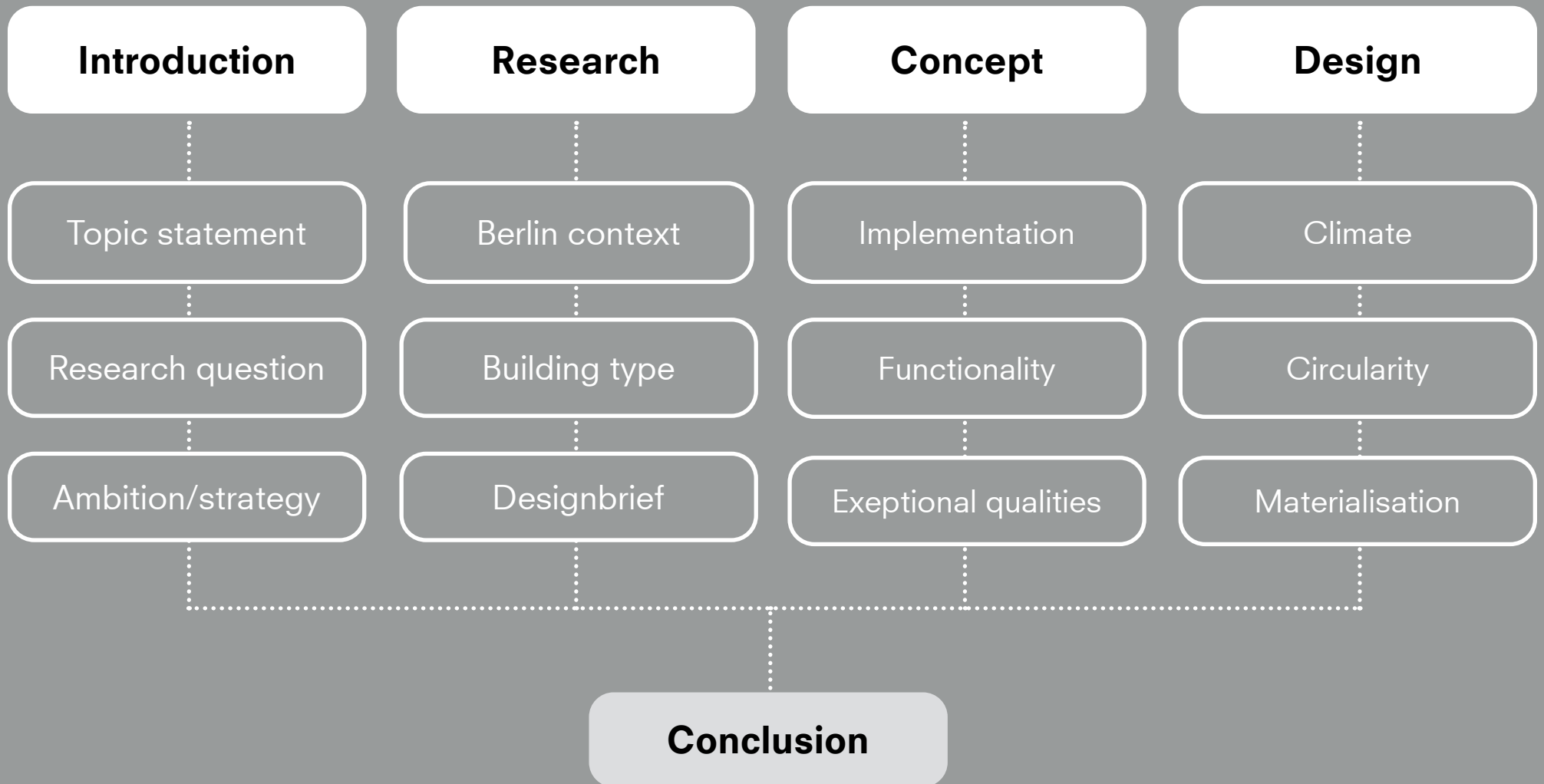


COMPLEX PROJECTS
PUBLIC OPERA
THE OPERA OF THE PEOPLE

Future group
Luca van Loevezijn
3/7/2023

INDEX



INTRODUCTION

“IT AIN’T OVER ‘TILL THE FAT LADY SINGS”

Introduction
BEAUTIFUL LADY



Introduction
OPERA IS DYING



Introduction
OUTDATED

APRIL 21, 2021 · BY BRIAN LEE

No wonder **opera is dying**

Is Opera Dead? Rutgers Professor and Younger Generation of Artists Offer Insight Into Saving Opera in America

by Alan Henry · Apr. 02, 2019



A National Endowment for the Arts survey last year found that the percentage of U.S. adults who attend at least one opera each year dropped from 3.2 percent in 2002 to 2.2 percent in 2017.

**OPERA WASN'T DYING –
IT WAS BEING MURDERED**

Singer Jessica O'Donoghue on her journey to SCO and the future of opera.

LOSING OPERA = LOSING AN IMPORANT PART OF CULTURAL HISTORY



BAD FOR A CULTURAL CITY LIKE BERLIN



<https://www.germany.travel/en/cities-culture/capital-of-culture-berlin-from-museums-to-street-art.html>

Introduction
CREATIVITY



Introduction
CREATIVITY



Introduction
FACTS



Since 2009, approx. **30.000 new jobs** have been created in Berlin's creative industries.

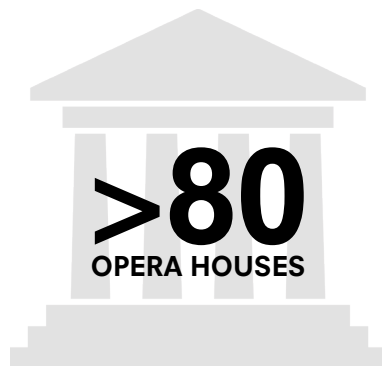


Berlin's reputation brings ever more tourists to the city: around **34 million overnight stays** in 2019



The turnover of Berlin's creative **economy has grown by 28%** since 2009

OPERA IS A BIG PART OF THIS CREATIVE INDUSTRY



Introduction
COMPARED TO ITALY



AROUND 7500
PERFORMANCES PER SEASON



LESS THAN 2000
PERFORMANCES PER SEASON

Introduction BERLIN



THE CULTURAL VALUE AND THE PURITY OF THE ARTFORM OF OPERA FIT THE IMAGE OF WHAT MOST PEOPLE SEE AS THE CAPITAL CITY OF CULTURE: BERLIN



THE ULTIMATE PLACE TO REDEFINE THE OPERA HOUSE



RESEARCH QUESTION

RESEARCH QUESTION

How can a traditional opera house in Berlin contribute to attracting new customers so the artform continues to stay relevant in the present and is ensured to be futureproof?

Introduction
AMBITION



**BY FOCUSING ON THE PLACEMENT, FORM AND FUNCTIONS OF THE BUILDING,
A BIGGER AUDIENCE WILL BE REACHED WHICH WILL POLISH UP THE DUSTY IMAGE OF THE OPERA.**

Introduction
STRATEGY



**STIMULATING
POPULARITY OF
OPERA**

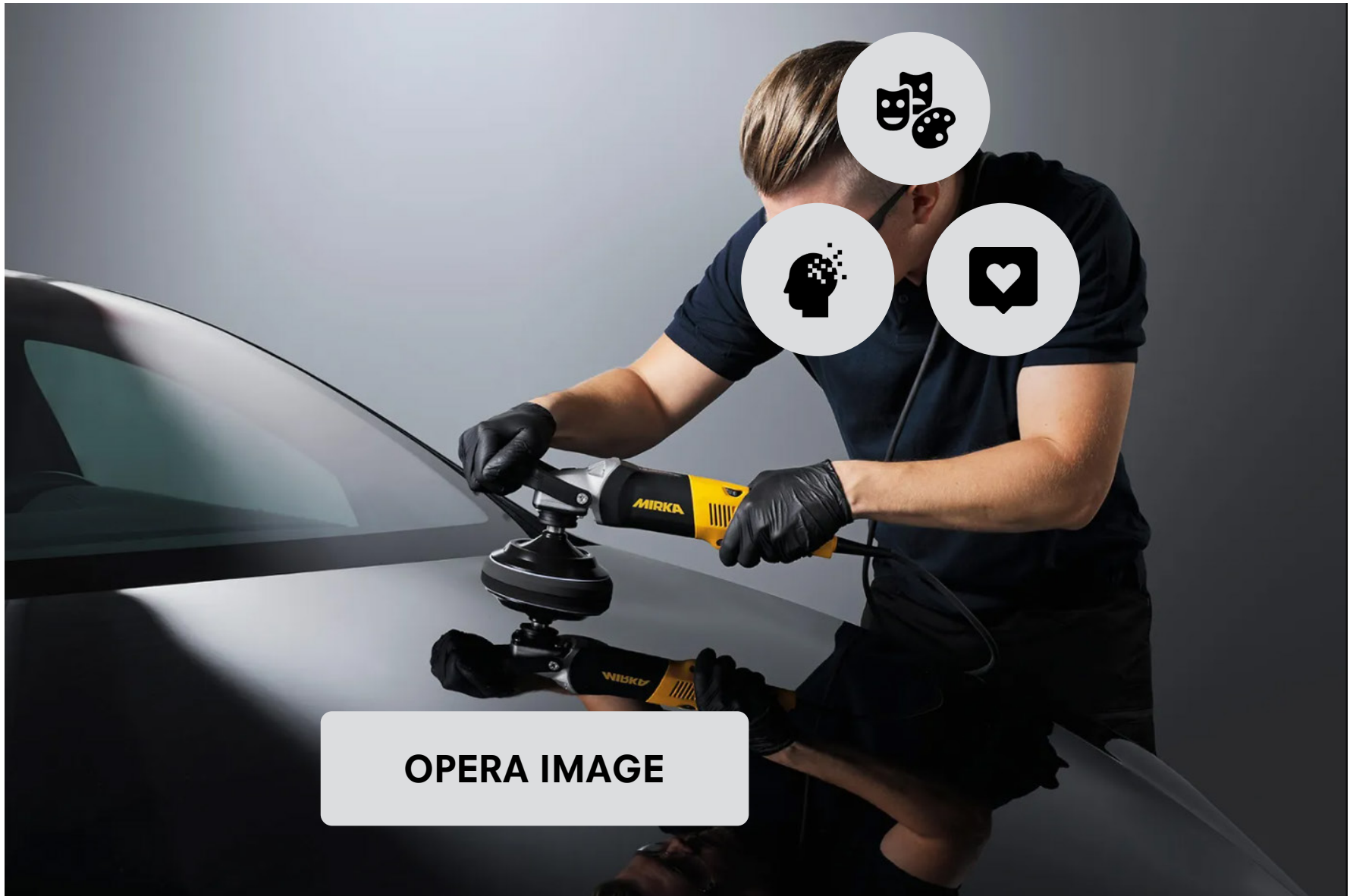


**ATTRACT
NEW
AUDIENCE**



**CULTURAL
STATUS
BERLIN**

Introduction
POLISH THE IMAGO



RESEARCH

Research
QUESTION

**WHAT IS
OPERA?**

Research
FORM OF THEATER



Research

FAMOUS FOR IT'S WEALTH AND STATUS



Research
SOCIAL EVENT



Research
COMPLETE ART FORM

It is considered by many to be the most complete art form, combining all of the elements of art, words, music, drama and dance.

STRIVING FOR PERFECT CIRCUMSTANCES OF THE SPACE

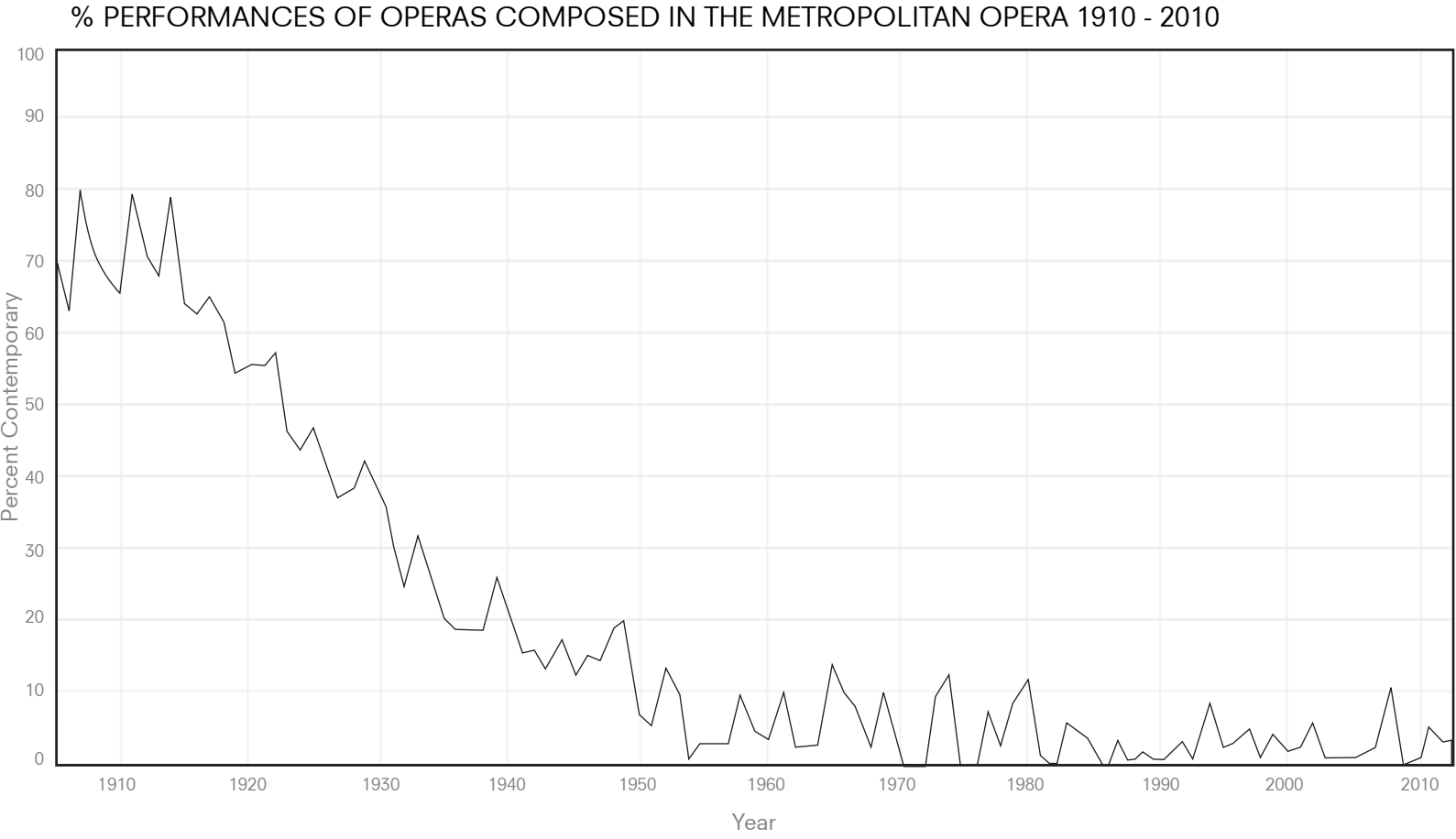
The opera house should provide the perfect space for the spectator and performer to provide/attend an opera piece.

Research

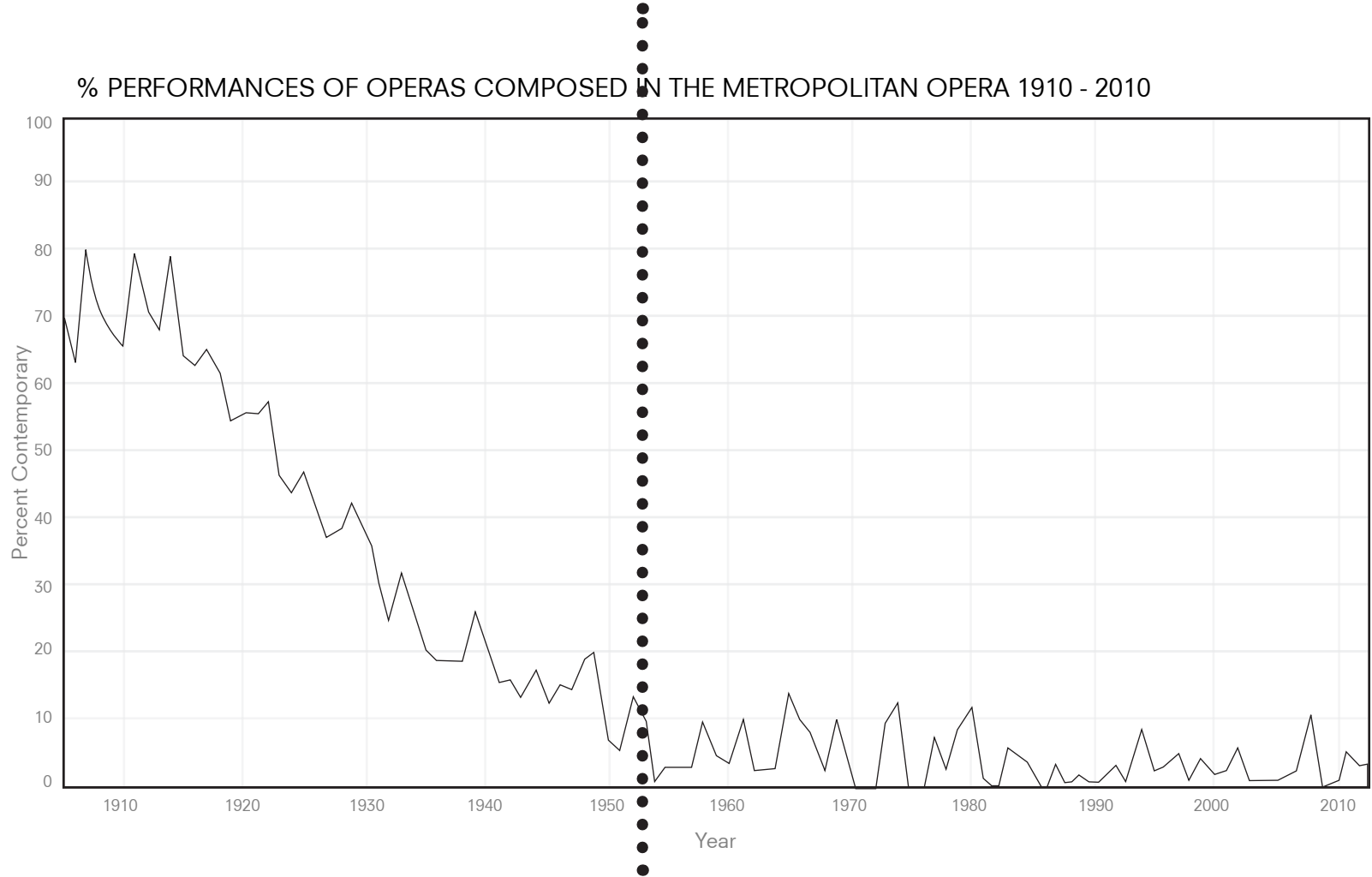
WHY IS OPERA DYING?



Research
GRAPHIC OF OPERA VISITORS



NEW FORMS OF ENTERTAINMENT



**New forms of entertainment such as:
cinematography, radio broadcasting and
television.**

AVERAGE AGE OF OPERA AUDIENCE

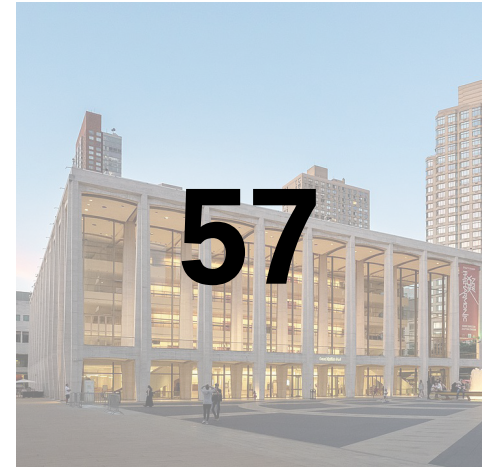
Average visitor age



Metropolitan opera

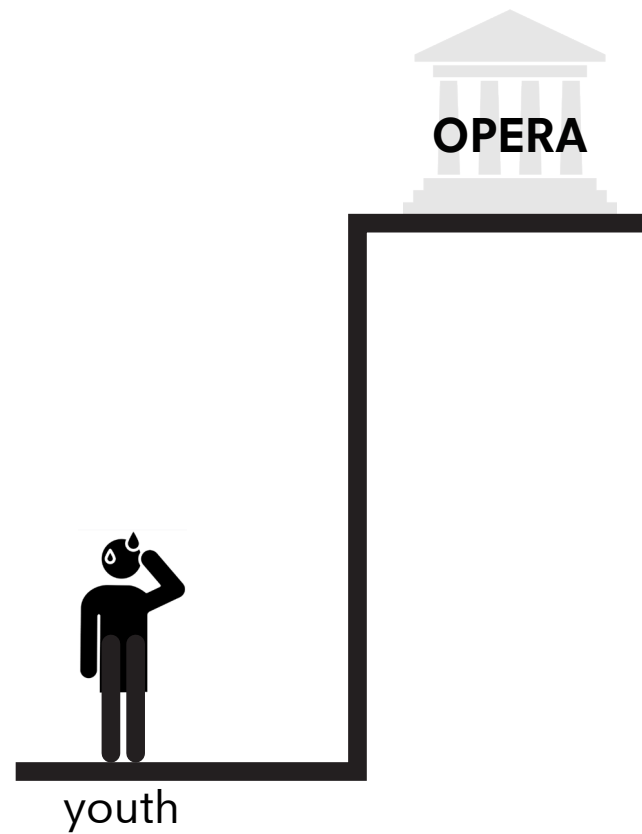


Opera national de Paris



NY Philharmonic

FASCINATION OF YOUNG PEOPLE



YOUNG PEOPLE ARE ACCUSTOMED TO LESS SOCIAL HIERARCHY

MORE FLEXABLE SOCIAL MANNERS = NOT IN CONCERT HALLS

Research
CLOSED BOX

Comische oper Berlin



**IT IS A PUBLIC BUILDING, BUT DOES NOT FEEL LIKE A
PUBLIC BUILDING**

SUMMARY OF THE PROBLEMS

MORE FORMS OF ENTERTAINMENT

AGING AUDIENCE

LACK OF FASCINATION YOUNG PEOPLE

DOES NOT FEEL LIKE A PUBLIC BUILDING

Research
PROBLEM

OPERA IS FAILING TO MODERNIZE

Research
QUESTION

HOW TO
MODERNIZE?

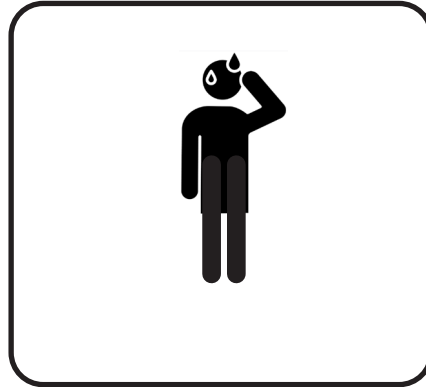
OPENING UP THE CLOSED BUILDING FOR THE PEOPLE



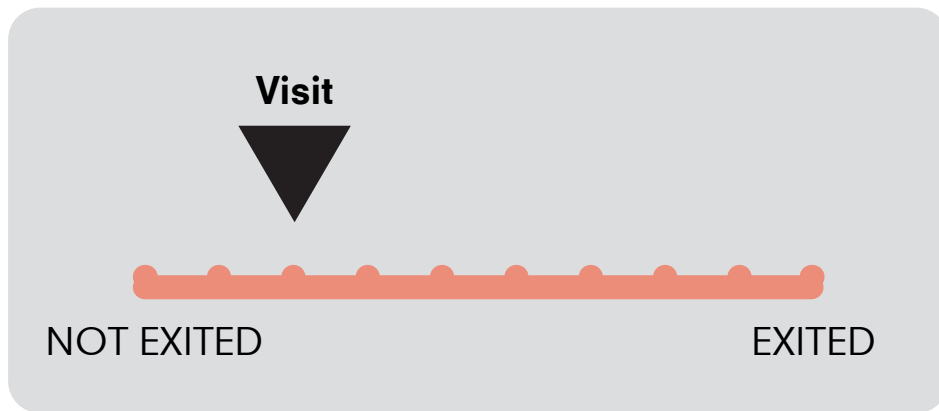
FOCUSSING ON MORE FLEXIBLE SOCIAL MANNERS INSIDE



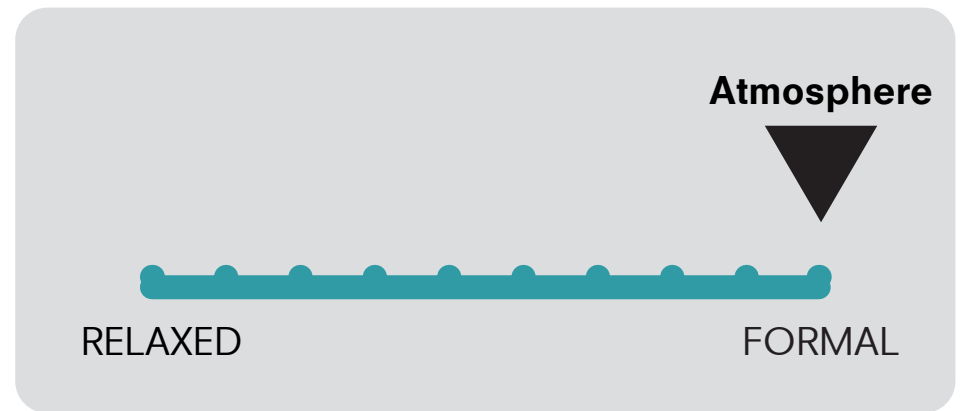
KNOWN OPERA ATMOSPHERE



EXITEMENT VISITING OPERA



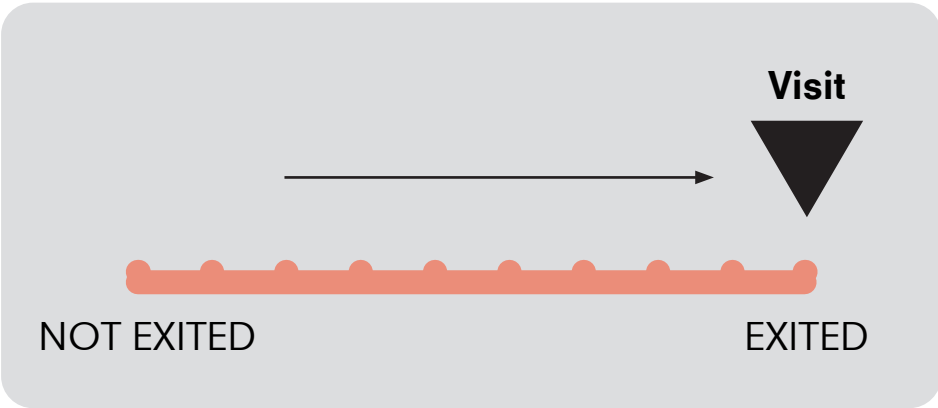
OPERA ATMOSPHERE



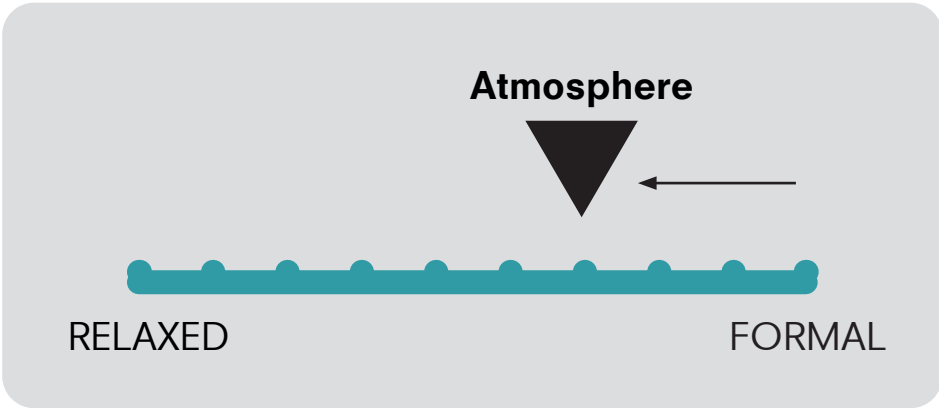
Research
ACCESABLE ATMOSPHERE



EXITEMENT VISITING OPERA



OPERA ATMOSPHERE



Research
EDUCATION



FASCINATIONS START WHEN PEOPLE ARE YOUNG



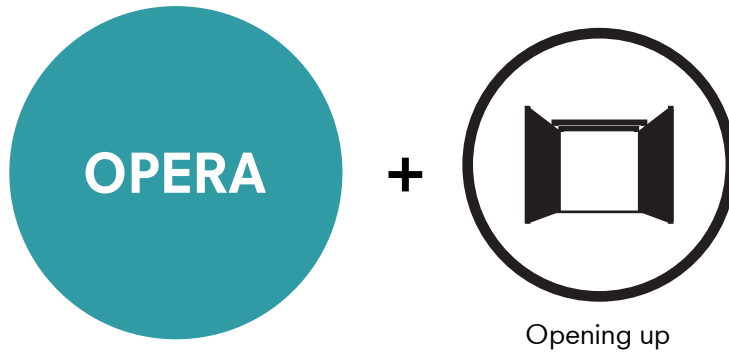
EARLY CONTACT WITH OPERA WILL PROMOTE THE
DEVELOPMENT OF FASCINATION



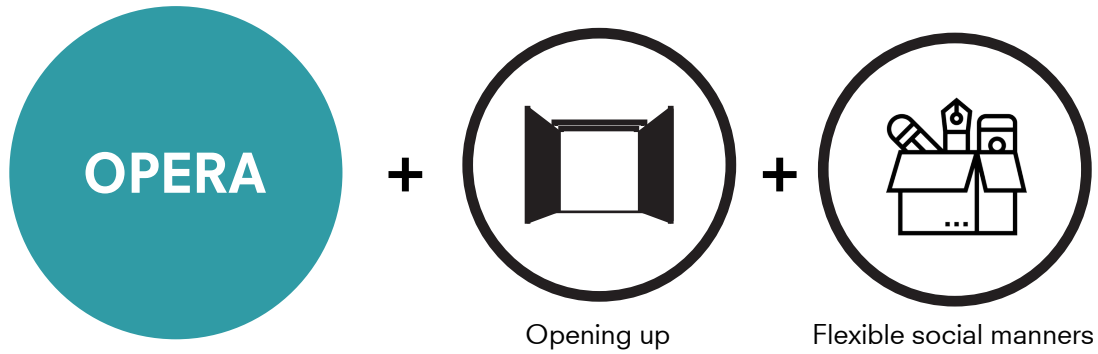
Research
FUTURE VISION



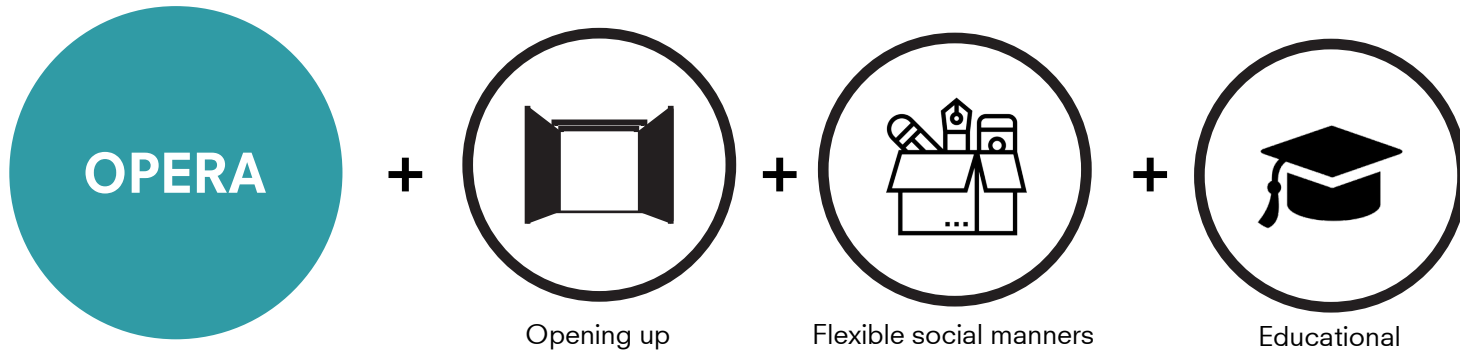
Research
FUTURE VISION



Research
FUTURE VISION



Research
FUTURE VISION

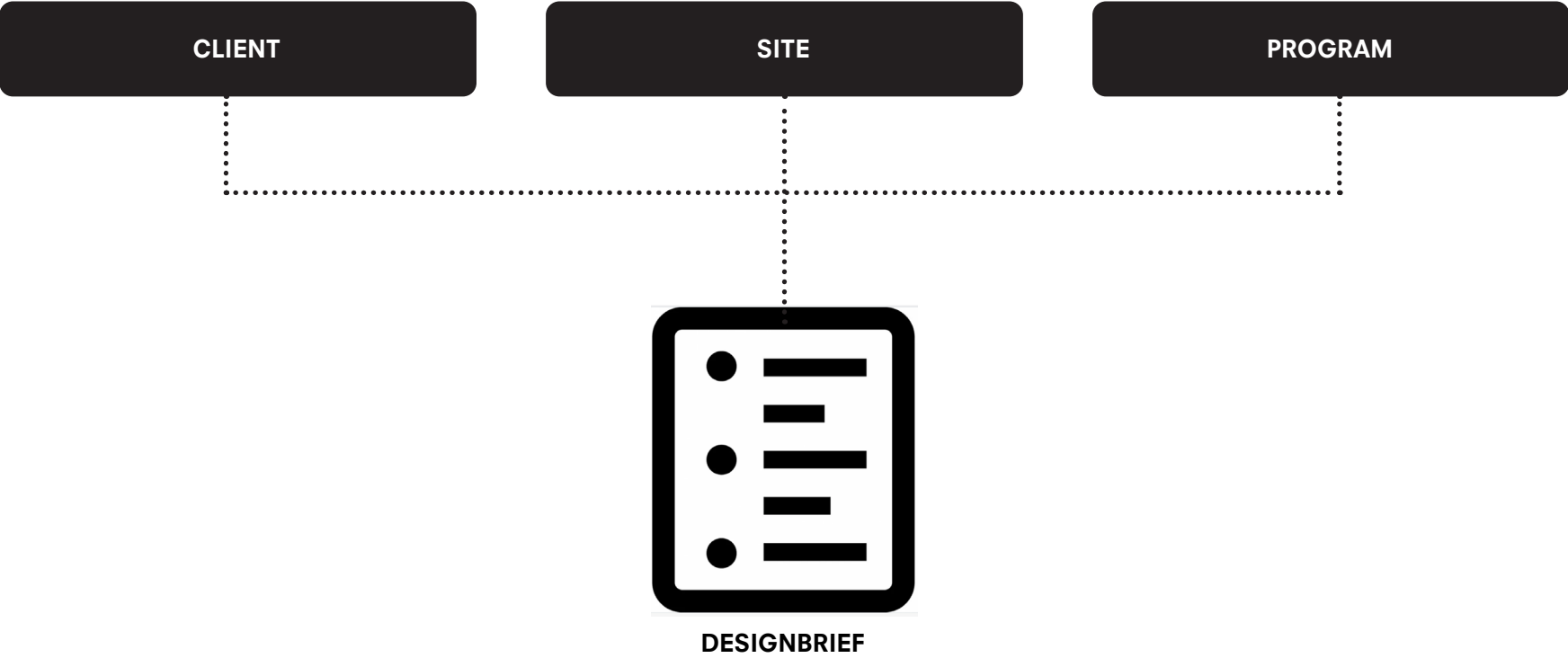


Research

FUTUREPROOF OPERA HOUSE



Research
DESIGNBRIEF



Client

Research
MAIN CLIENT





THE BERLIN CULTURE

Research
REQUIREMENTS



CULTURAL VALUE

Integration in historical context



UNIQUE/OUTSTANDING

Boost opera status in Berlin



FUTURE PROOF

Sustainable

Site

Research
SITE LOCATION



LOCATION WAS FOUND BASED ON REQUIREMENTS



**URBAN
DEVELOPMENT**



BUILDING AGE

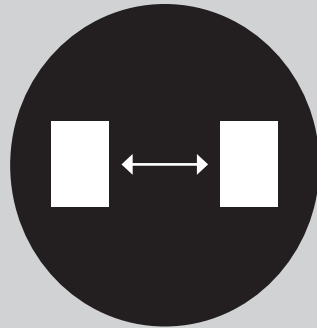


DENSITY

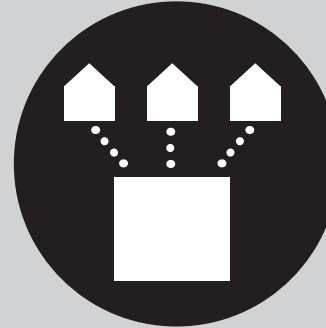
Research
REQUIREMENTS



**CULTURAL
SYMBIOSIS**



CAPACITY



**ASSOCIATED
FACILITIES**

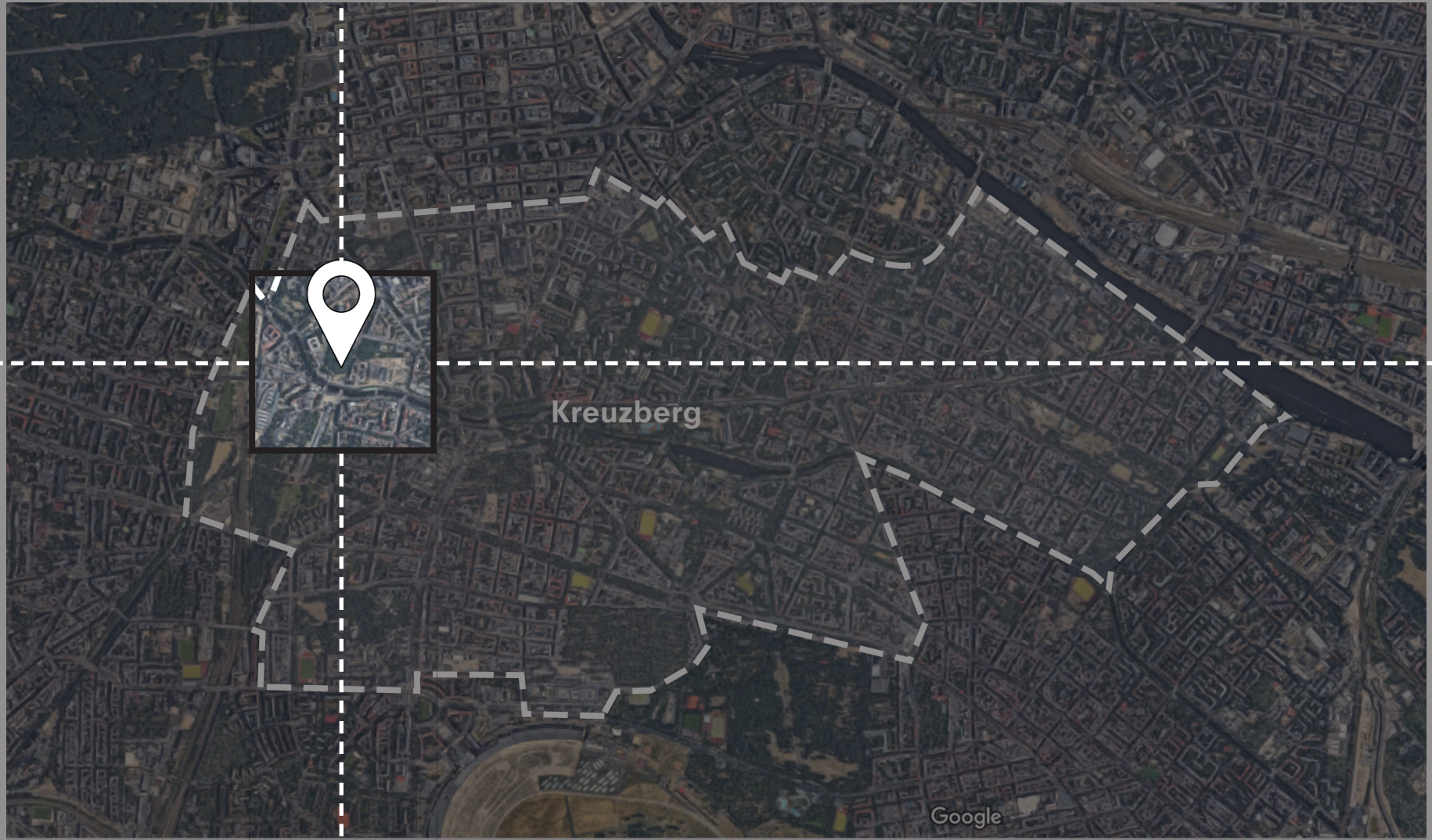


**CONNECTED
PUBLIC SPACE**

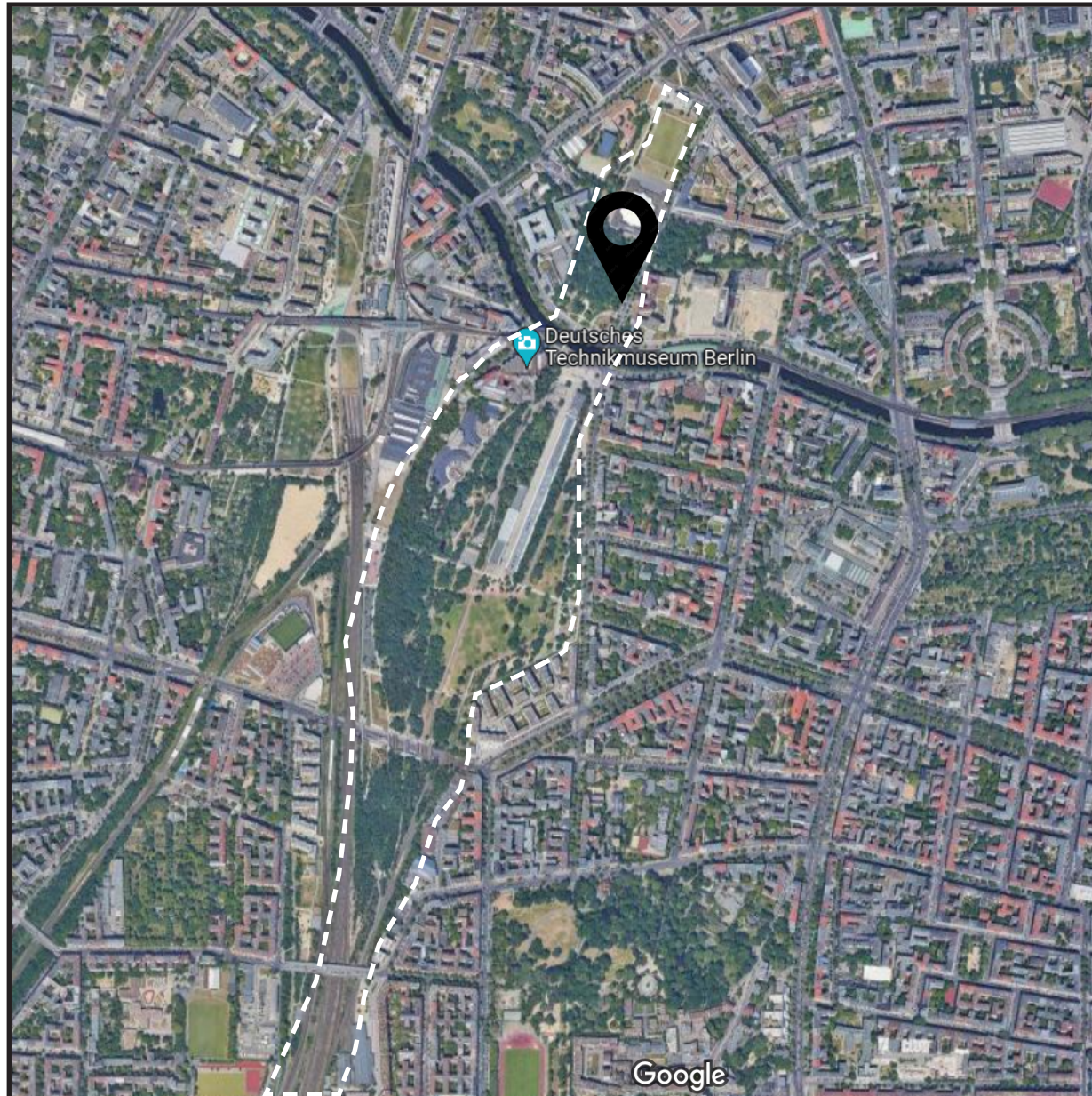
Research
KREUZBERG



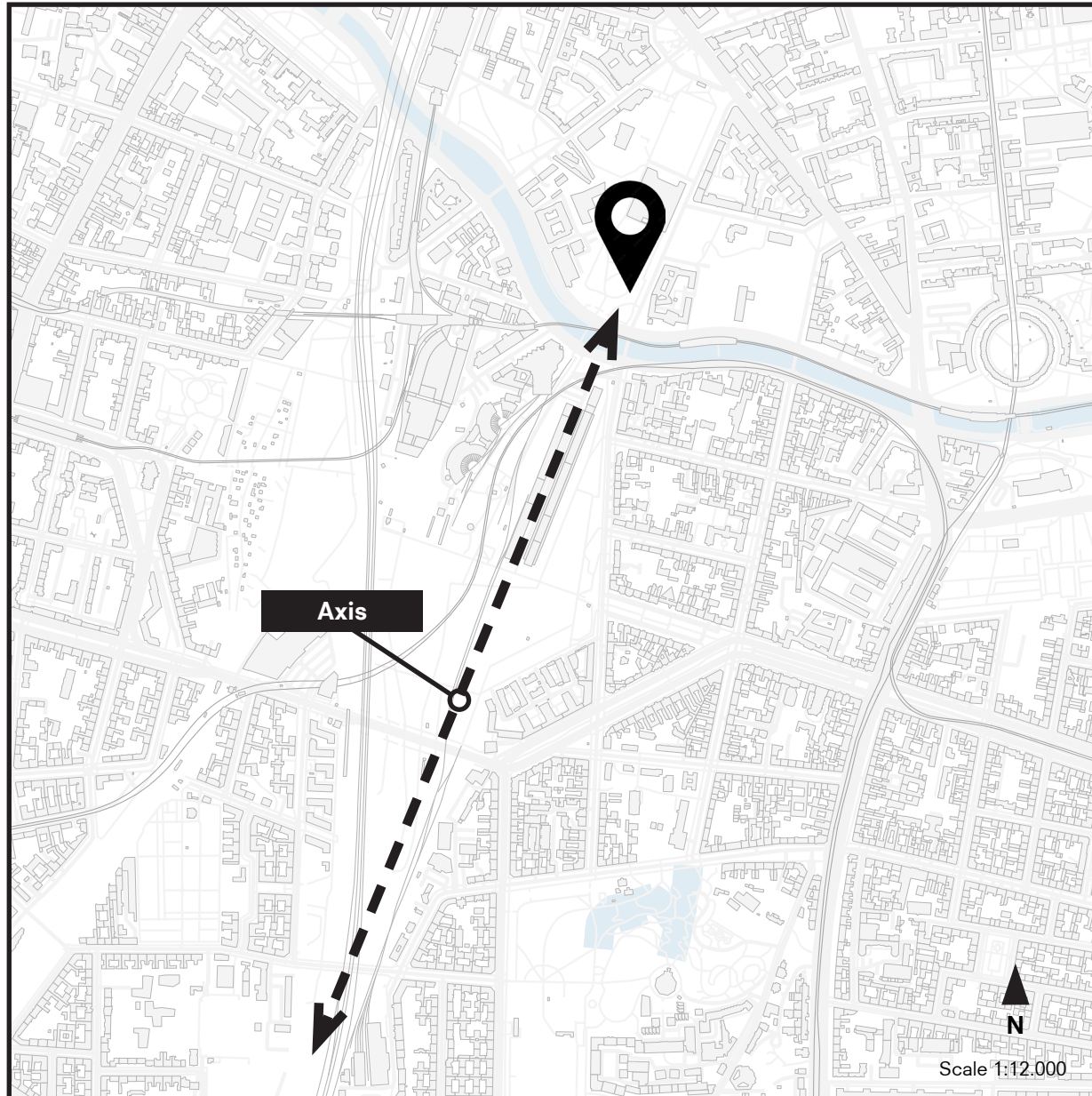
Site
KREUZBERG



Research
ZOOM IN LOCATION



JUST LIKE OTHER OPERAS ON HISTORICAL AXIS



Research
PARK AT GLEISDREIECK

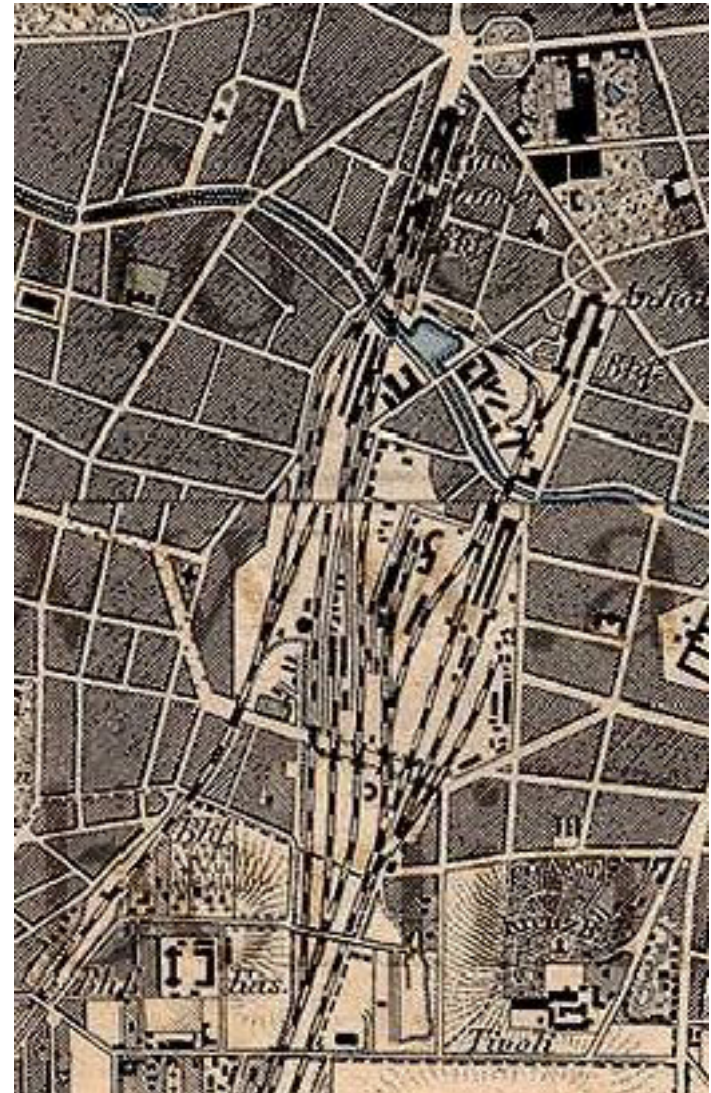


ANHALTER BAHNHOF, BERLIN

Nowadays



1869



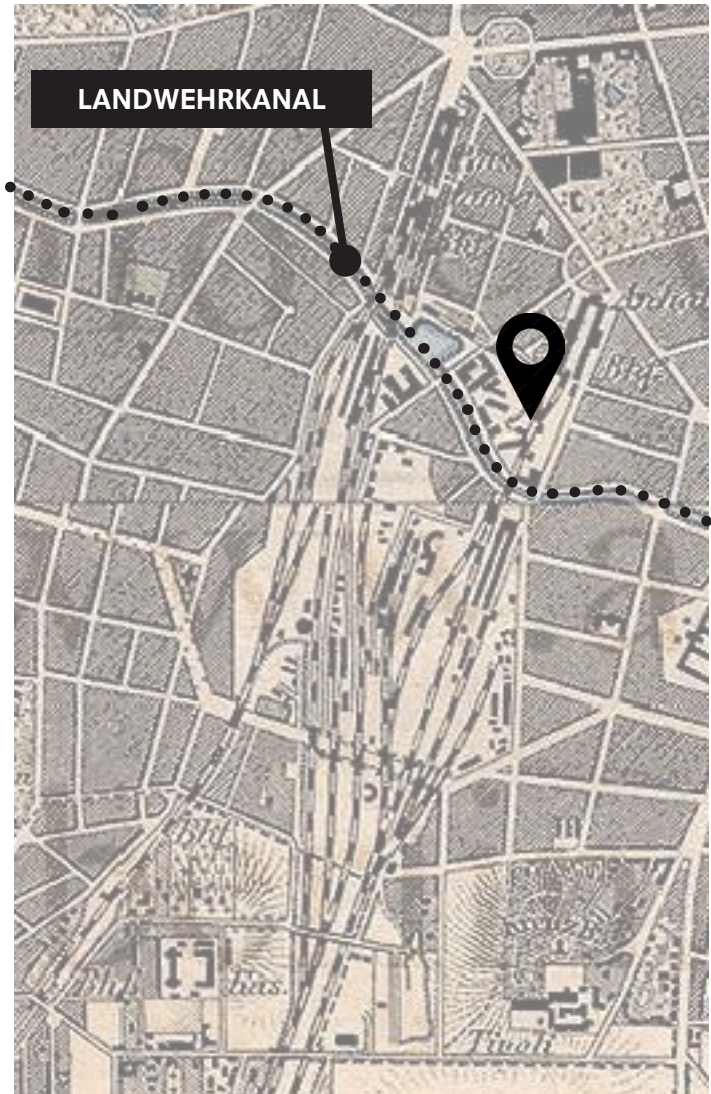
<https://sinfin.net/railways/world/anhalter/index.html>

ANHALTER BAHNHOF, BERLIN

Nowadays



1869



<https://sinfin.net/railways/world/anhalter/index.html>

ANHALTER BAHNHOF, BERLIN

Anhalter - Nowadays



Anhalter - 1920



ANHALTER BAHNHOF, BERLIN

Berlin Nord-Süd Tunnel



https://en.wikipedia.org/wiki/Berlin%E2%80%93Halle_railway#/media/File:Karte_Bahnstrecke_Berlin%E2%80%93Halle.png

Anhalter Bahnhof

- Opened on July 1, 1841 as the northern terminus of the Anhalter Bahn
- Largest terminal station in Europe: 61x161x34
- Seen as Berlin's gateway to the south. Nickname: Tor in die blaue Ferne ("Gateway to the unknown distance")

Decline and closure

- 3 februari 1945: Demolished because of bombings
- Restart but S-Bahn took its purpose away.
- 18 mei 1952: It closed its doors.
- 1959 it was demolished, front facade is kept

Research

ANHALTER BAHNHOF, BERLIN

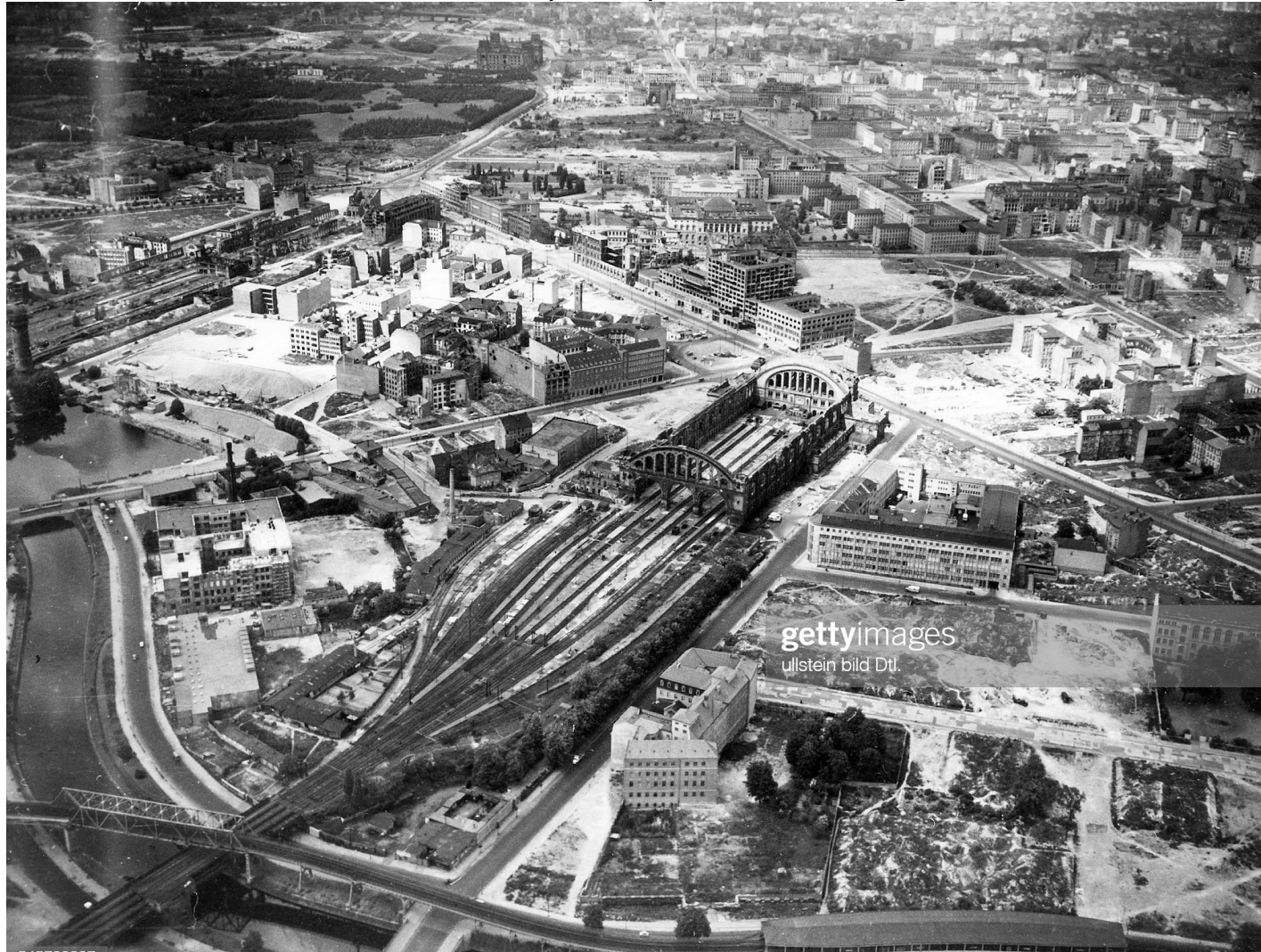
Berlin Customs Wall. 1737-1860



Research

ANHALTER BAHNHOF, BERLIN

Berlin Anhalter train station - badly hit by allied bombing 1945



<https://www.gettyimages.ca/detail/news-photo/luftaufnahme-askanischer-platz-nach-1945-news-photo/545729927>

Research

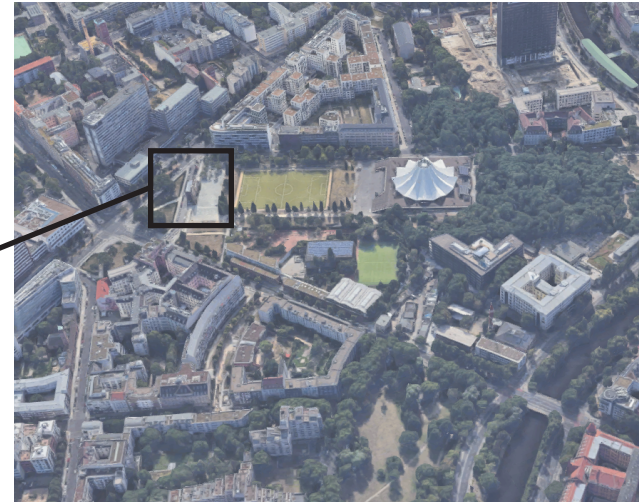
ANHALTER BAHNHOF, BERLIN

Berlin Anhalter train station

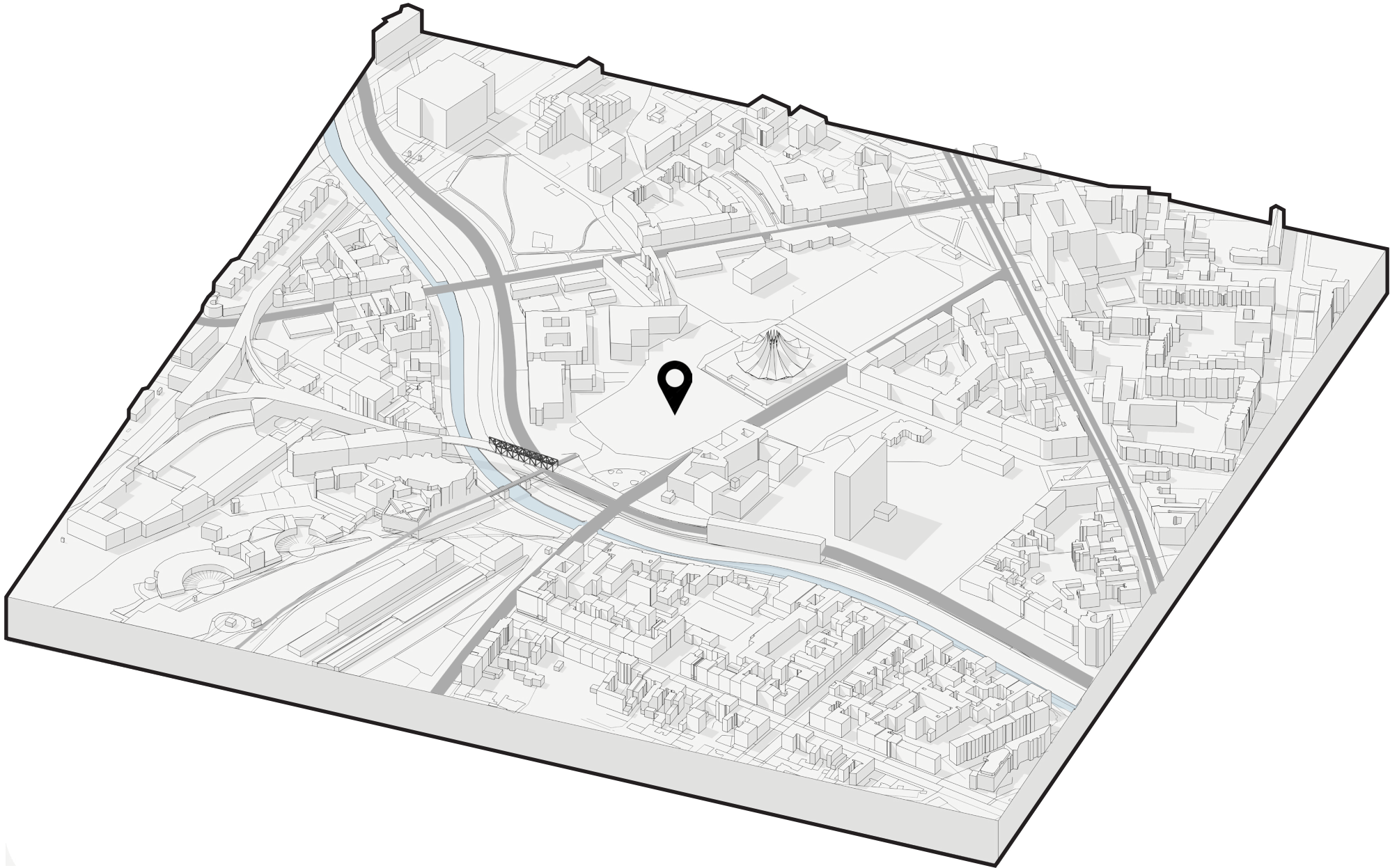


ANHALTER BAHNHOF, BERLIN

Anhalter Bahnhof - Nowadays

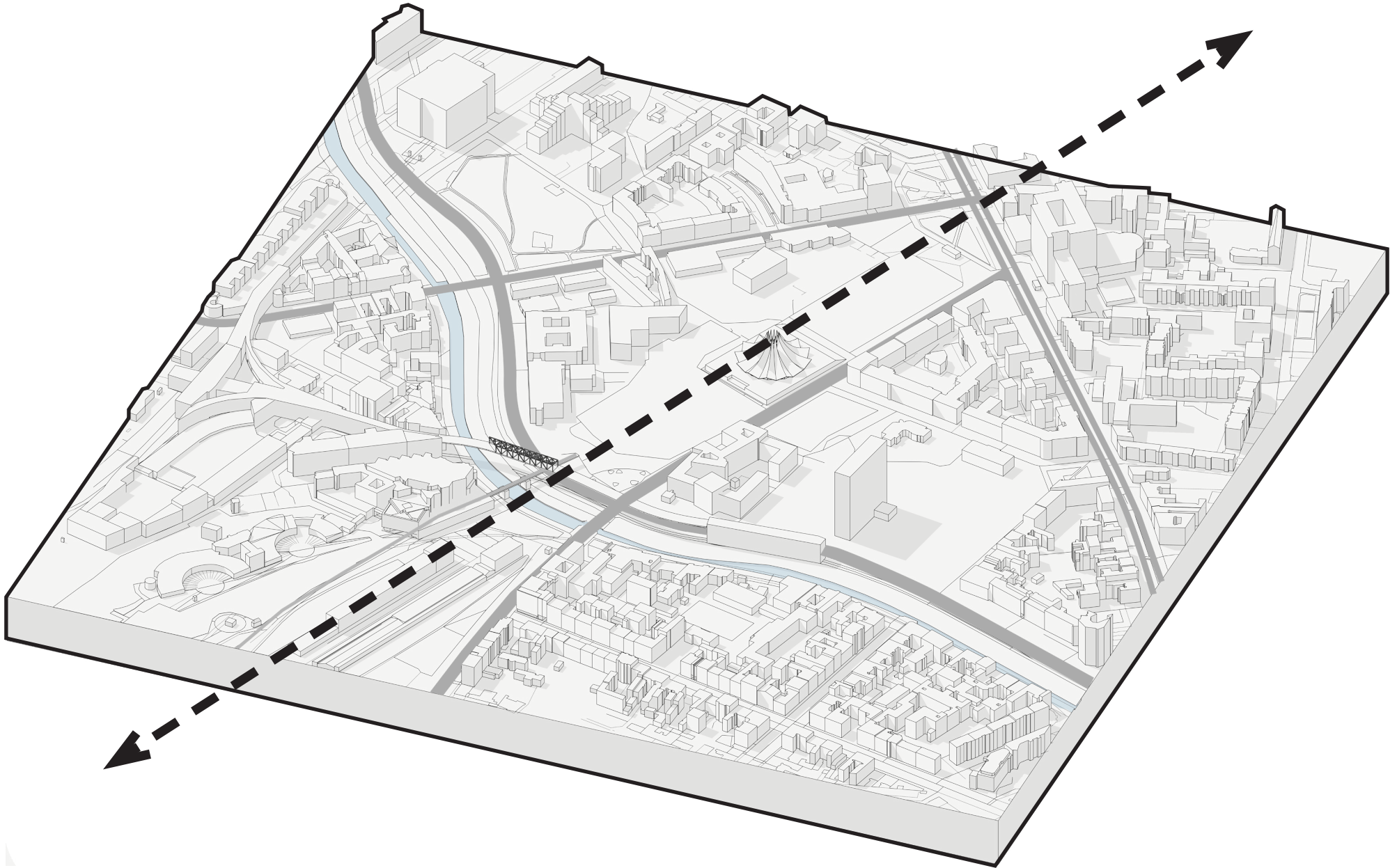


Research
3D MAP SITE LOCATION

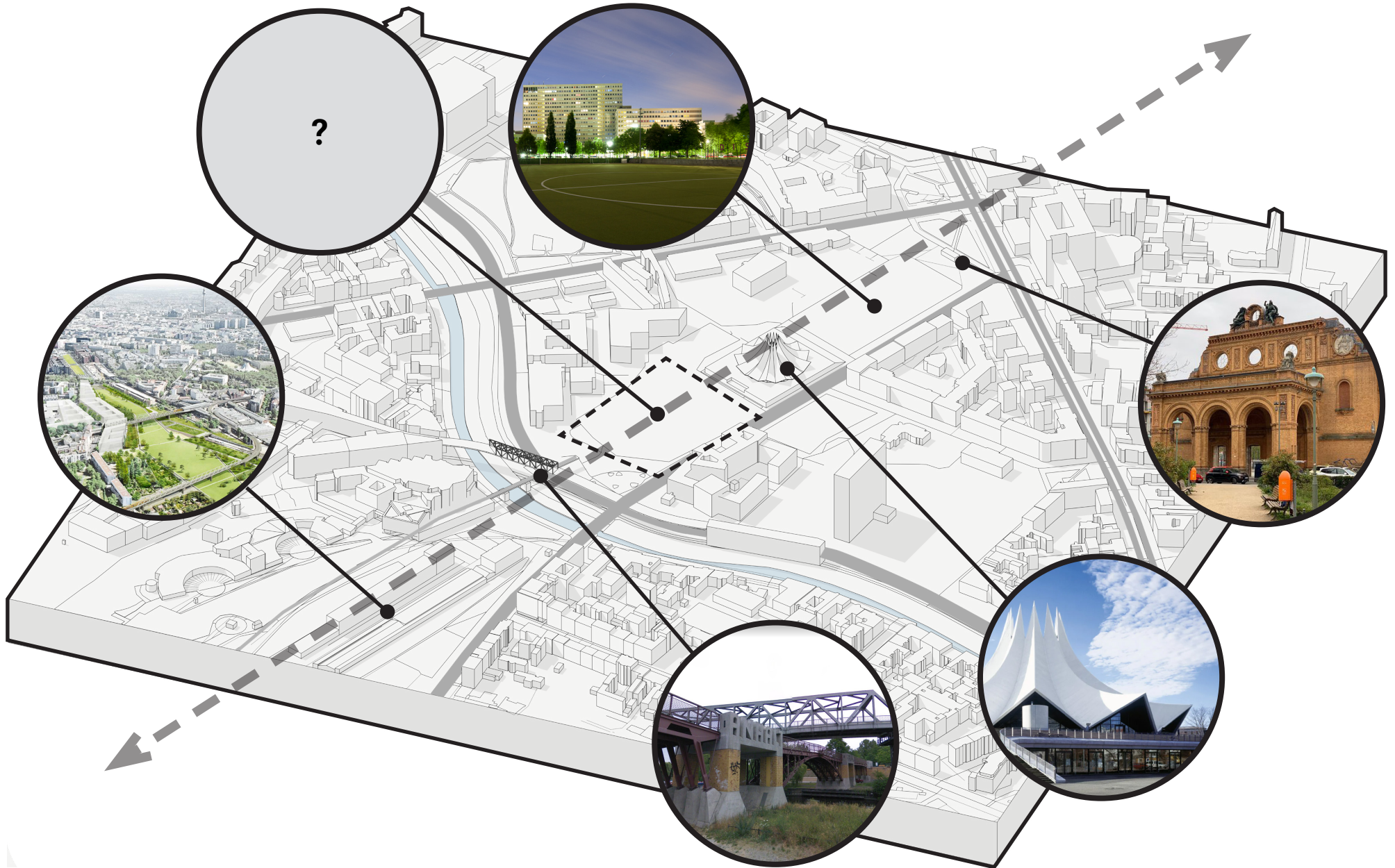


Research

3D SITE: ANHALTER BAHNHOF, BERLIN

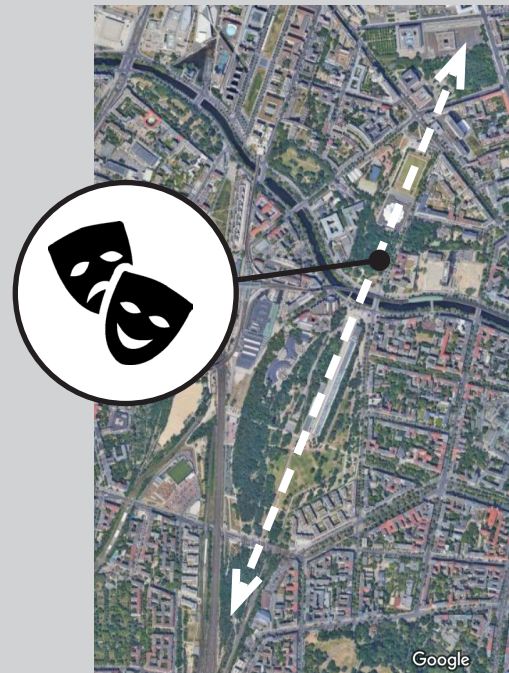


3D SITE: ANHALTER BAHNHOF, BERLIN



Research

ANHALTER BAHNHOF, BERLIN



Once the biggest station in Europe:

A metropolis and the gateway to the south of Berlin

Center of creative industries where cultural activities will enhance the past and history of the place.

Program

Research

MOST IMPORTANT TOOL OF THE PERFORMER



THE OPERA HOUSE

Research
PROVIDES

PERFECT ACOUSTICS

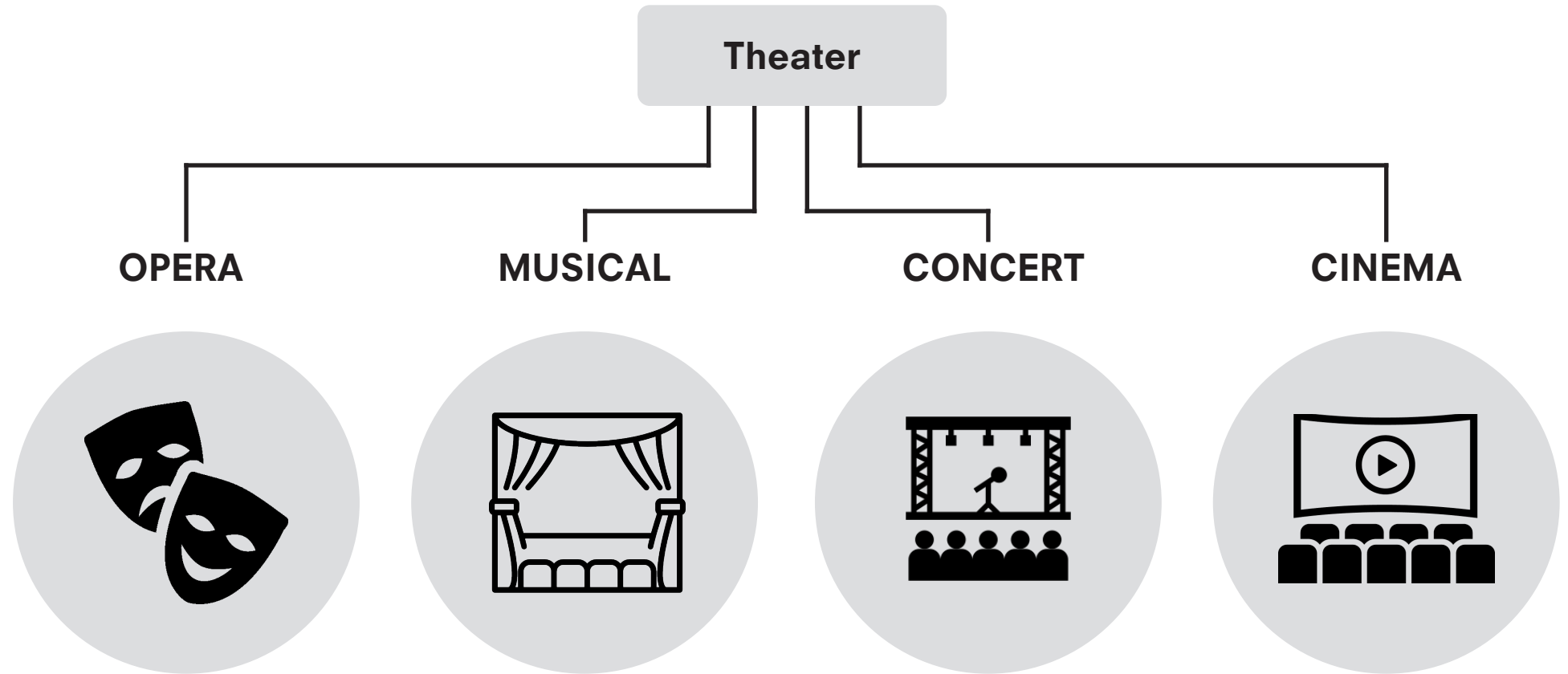
SOCIAL SPACE

SPACE TO RELAX

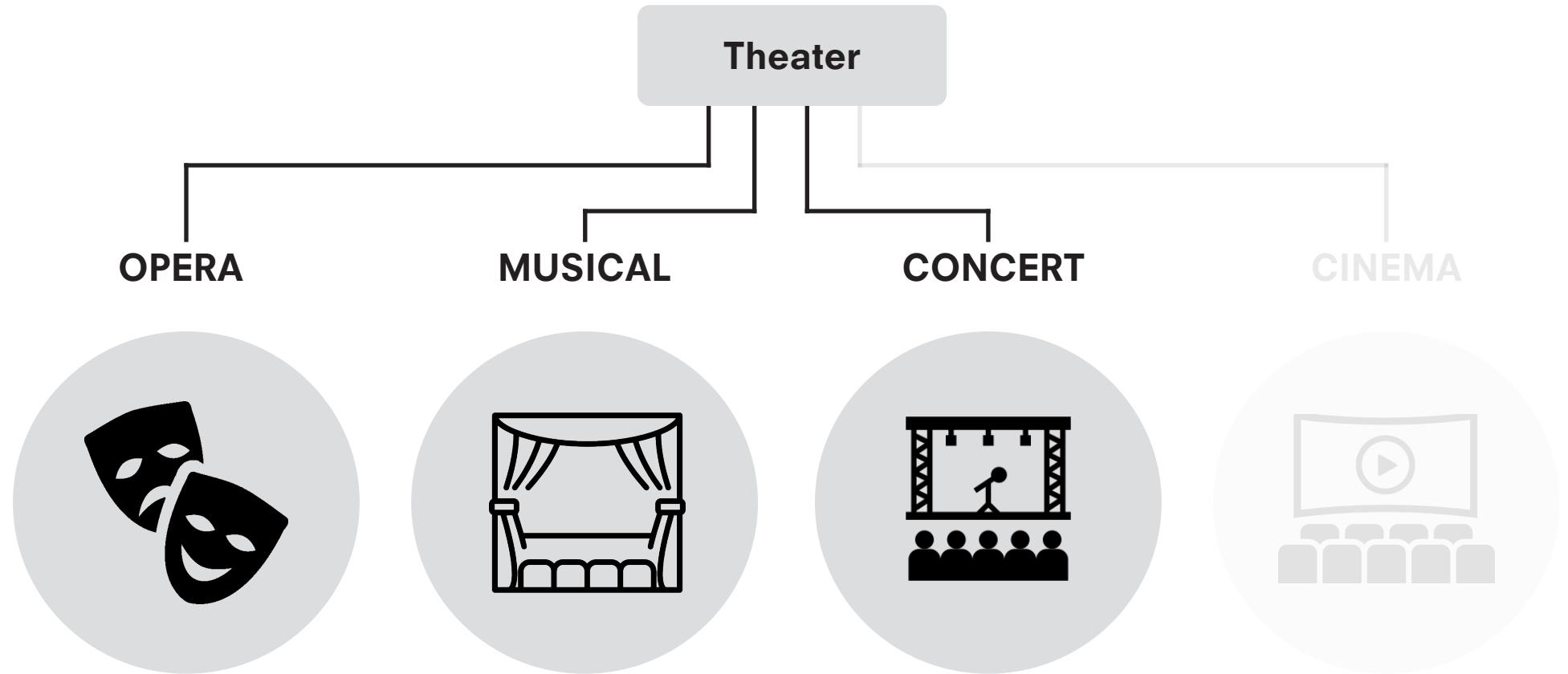
SHELTER

CIRCUMSTANCES FOR
ENTERTAINMENT

TYPES OF THEATER PERFORMANCES



Research
LIVE PERFORMANCES



Research
DIFFERENCES IN PLAY

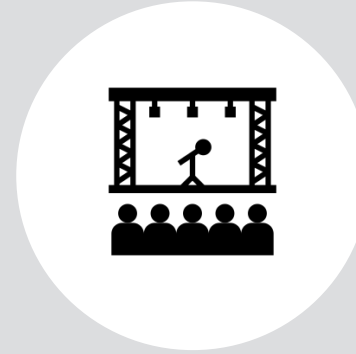
OPERA



MUSICAL



CONCERT



Main Focus

Singing

Dialogue, music,
and dance

Instrumental music

Performer

Trained classical singer first,
anything else second

Actor first, anything else
second

Singer, supported by band

Music

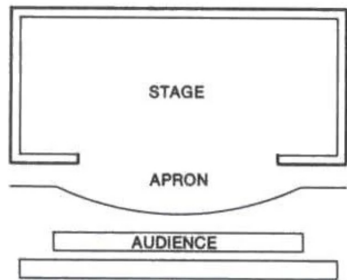
Traditional,
Language of original story

Popular styles
Language of Audience

Singer on mic. with band

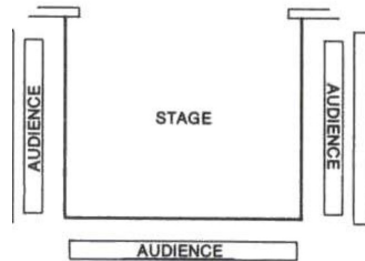
FOUR MAIN TYPES OF STAGES

Proscenium stage



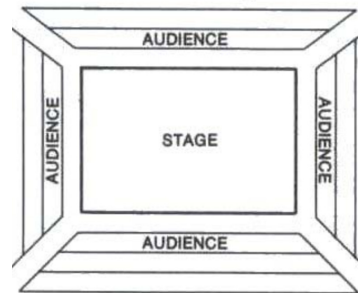
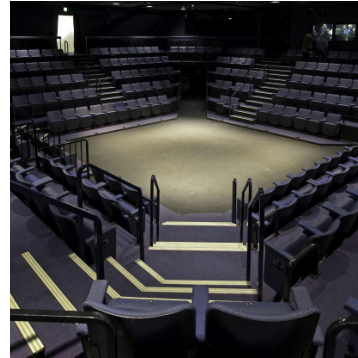
Have a frame that leads on to the stage.

Thrust stage



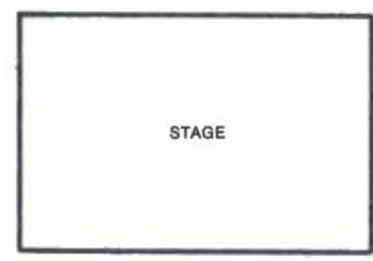
Extends into the audience on three sides

Arena stage



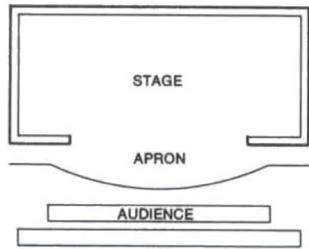
Central stage surrounded by audience on all sides

Flexible stage

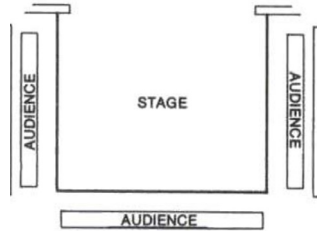


Elements can be rearranged for different performances

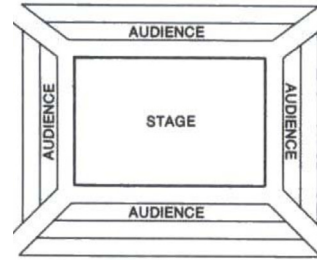
WHAT PERFORMANCE DOES FIT?



Proscenium stage



Thrust stage



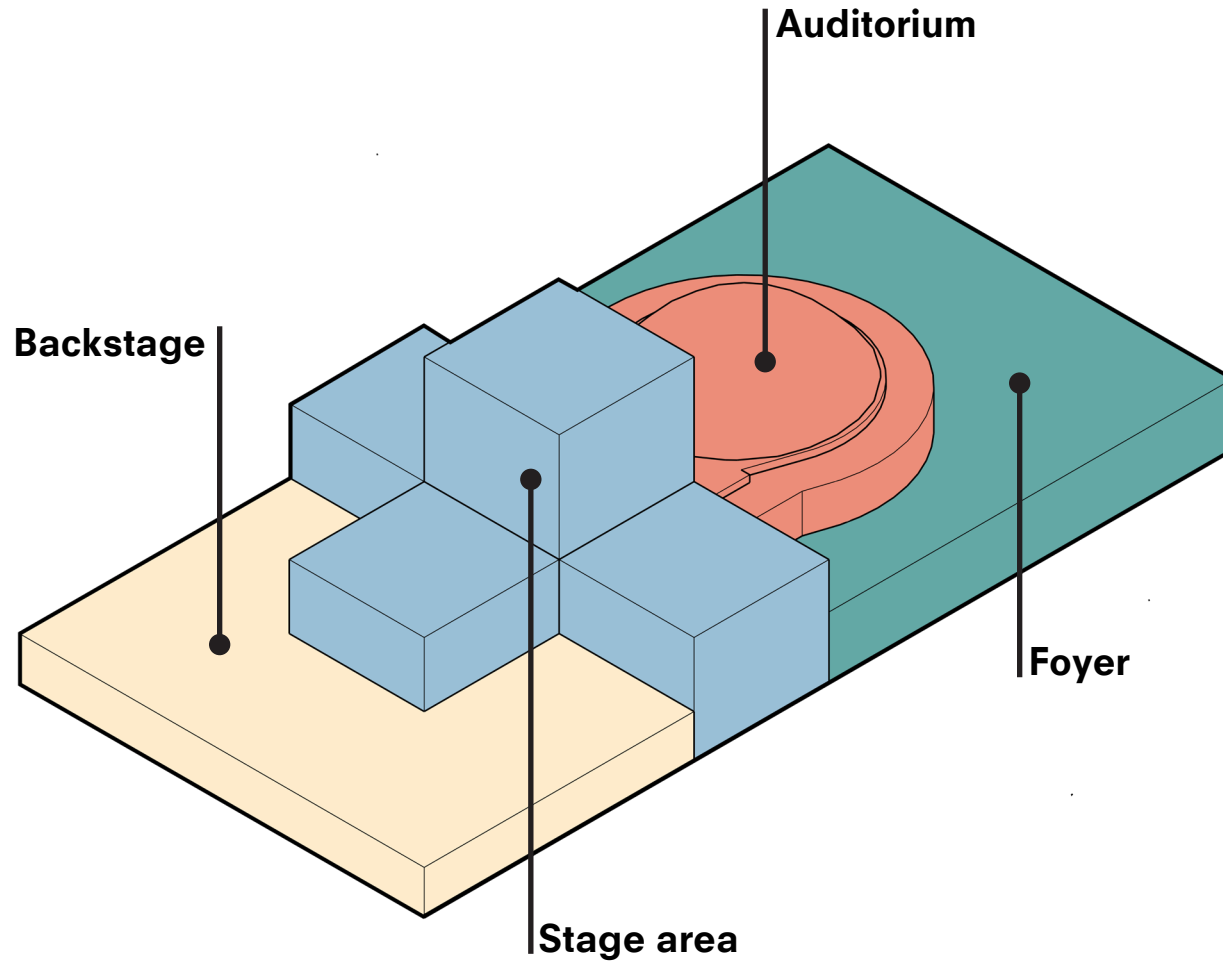
Arena stage



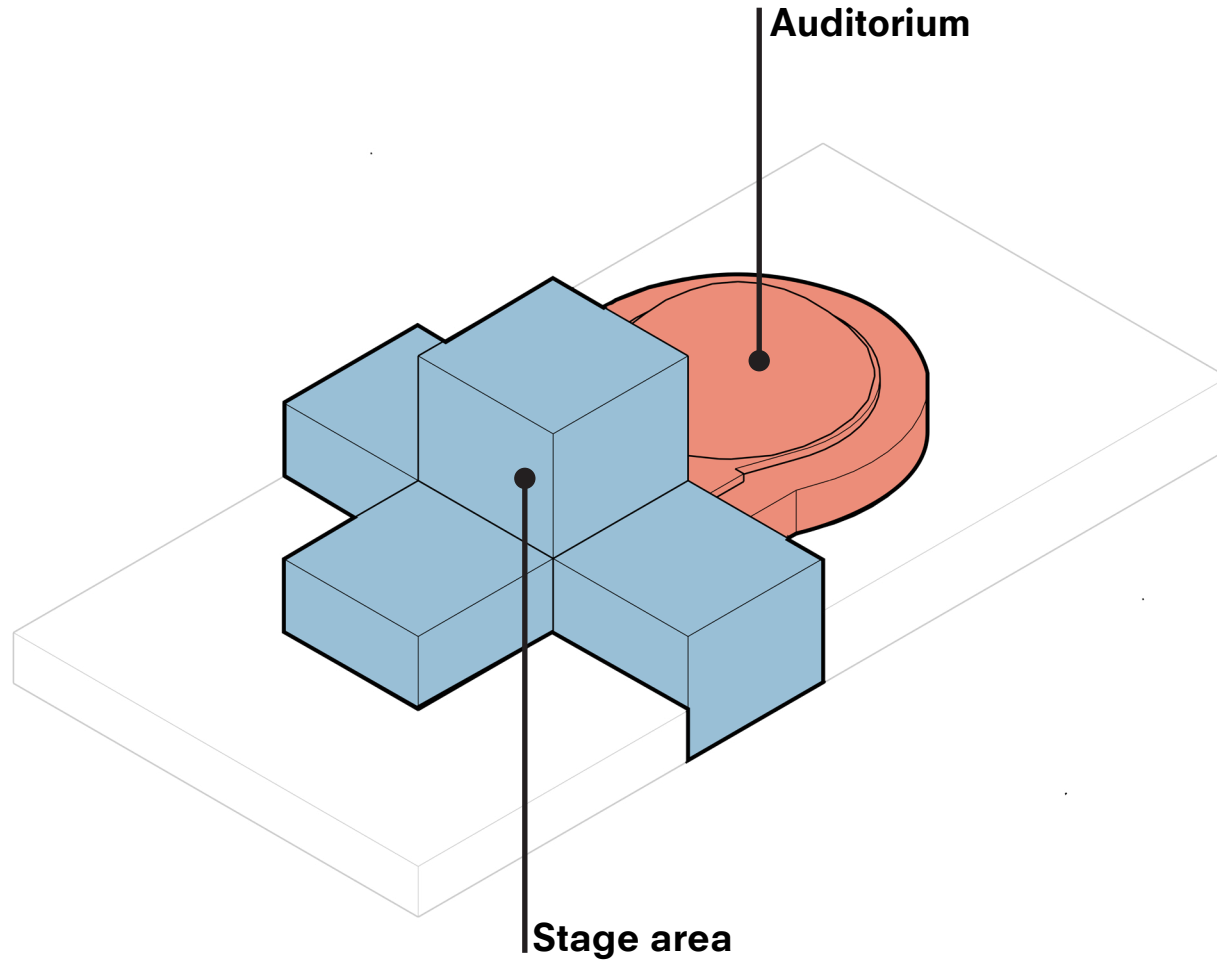
Flexible stage



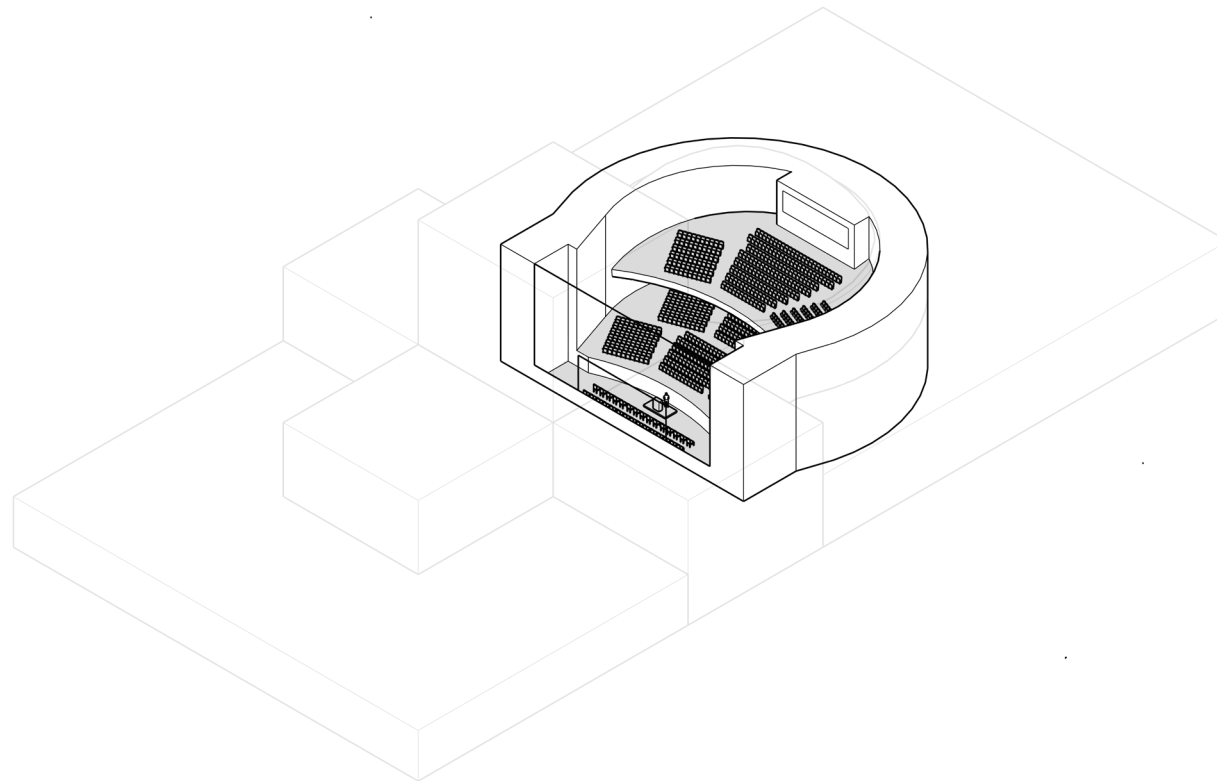
BASIC FORM OPERA HOUSE



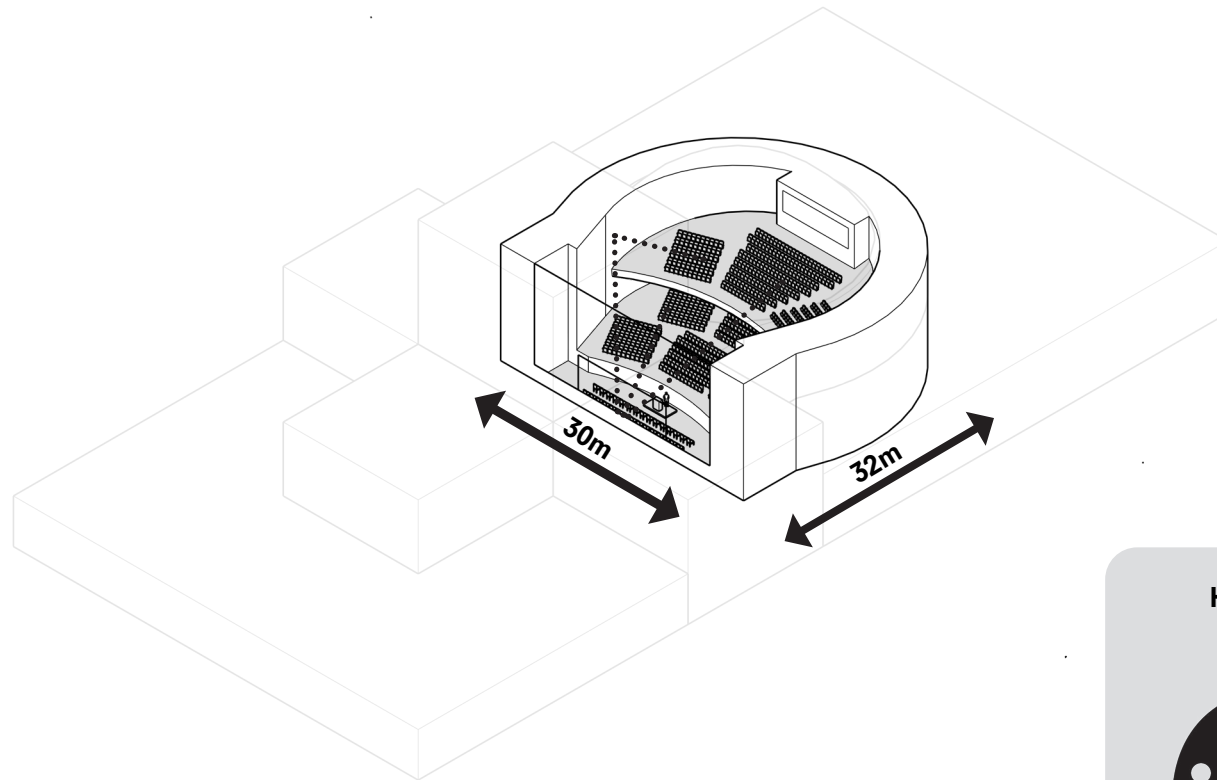
Research
HEART OF THE OPERA



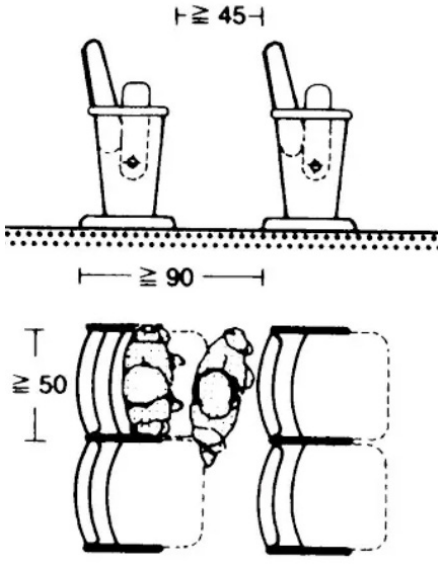
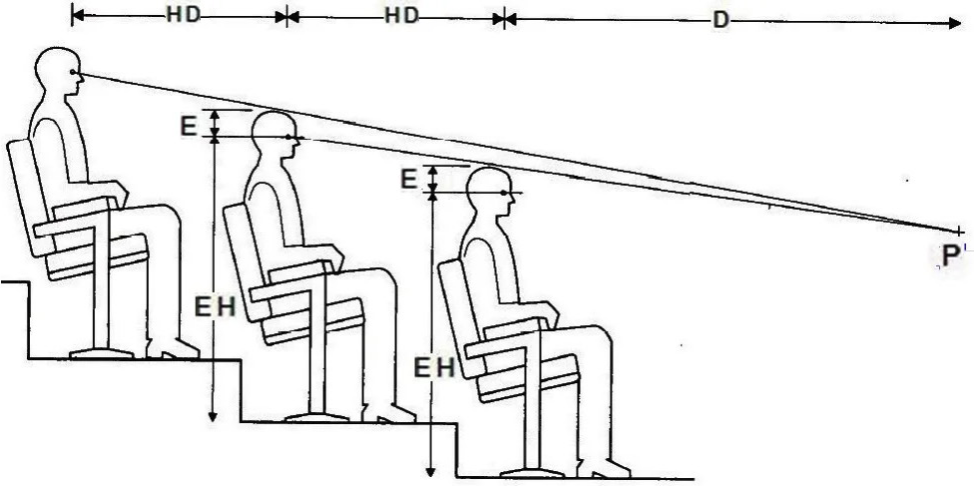
Research
AUDITORIUM



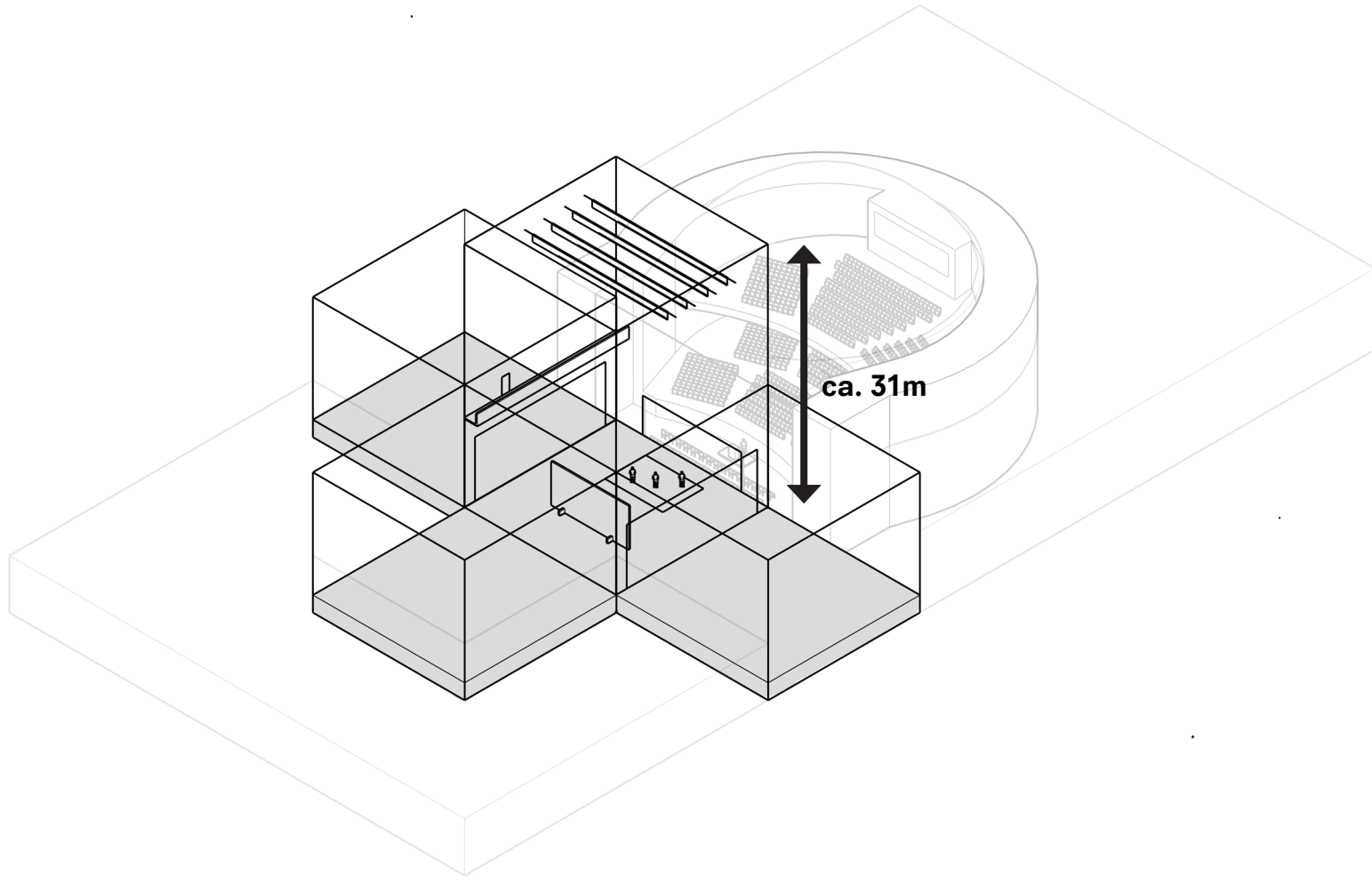
SHAPE AND FORM FOR THE BEST ACCOUSTICS



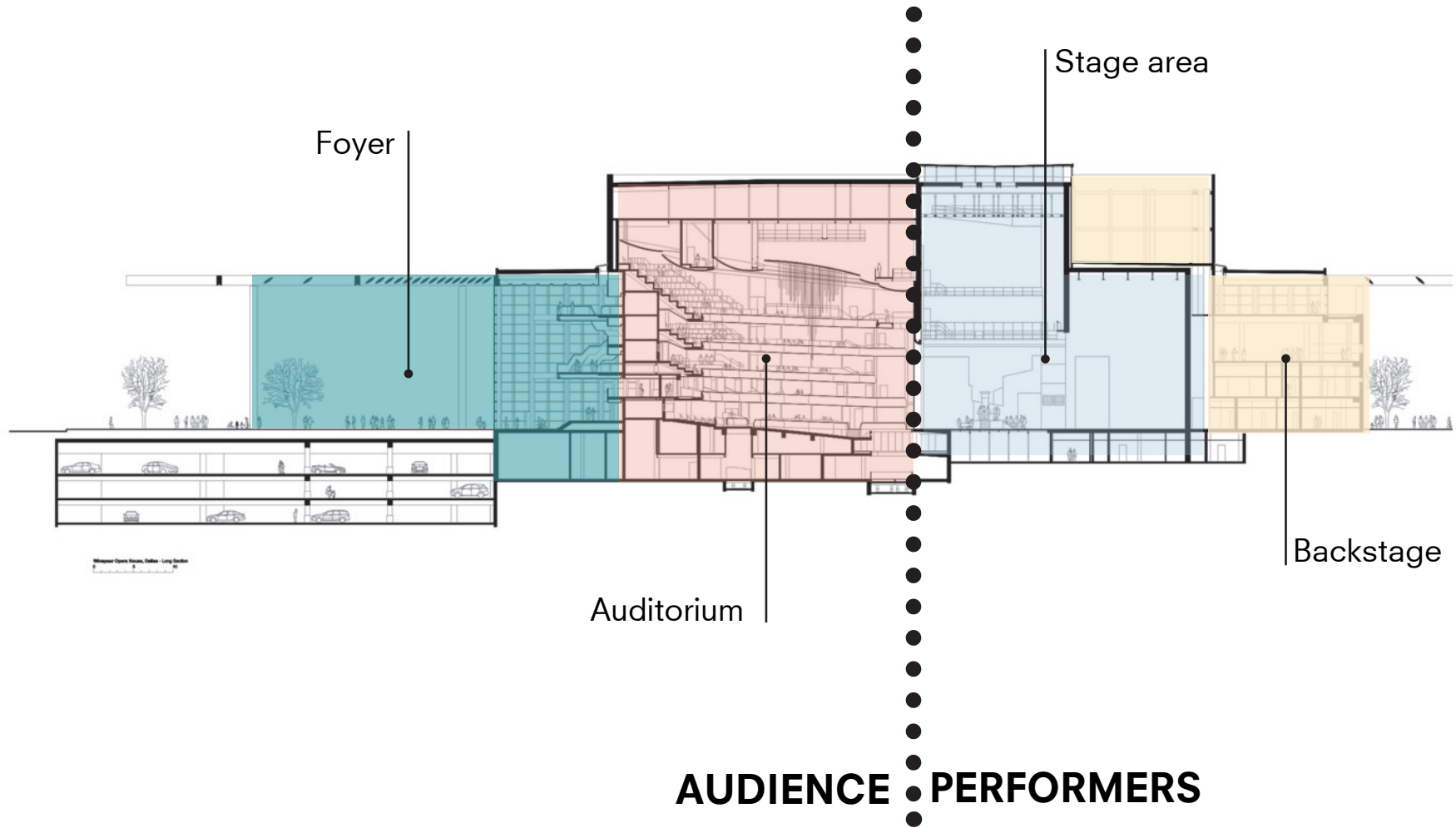
Research
SEATS



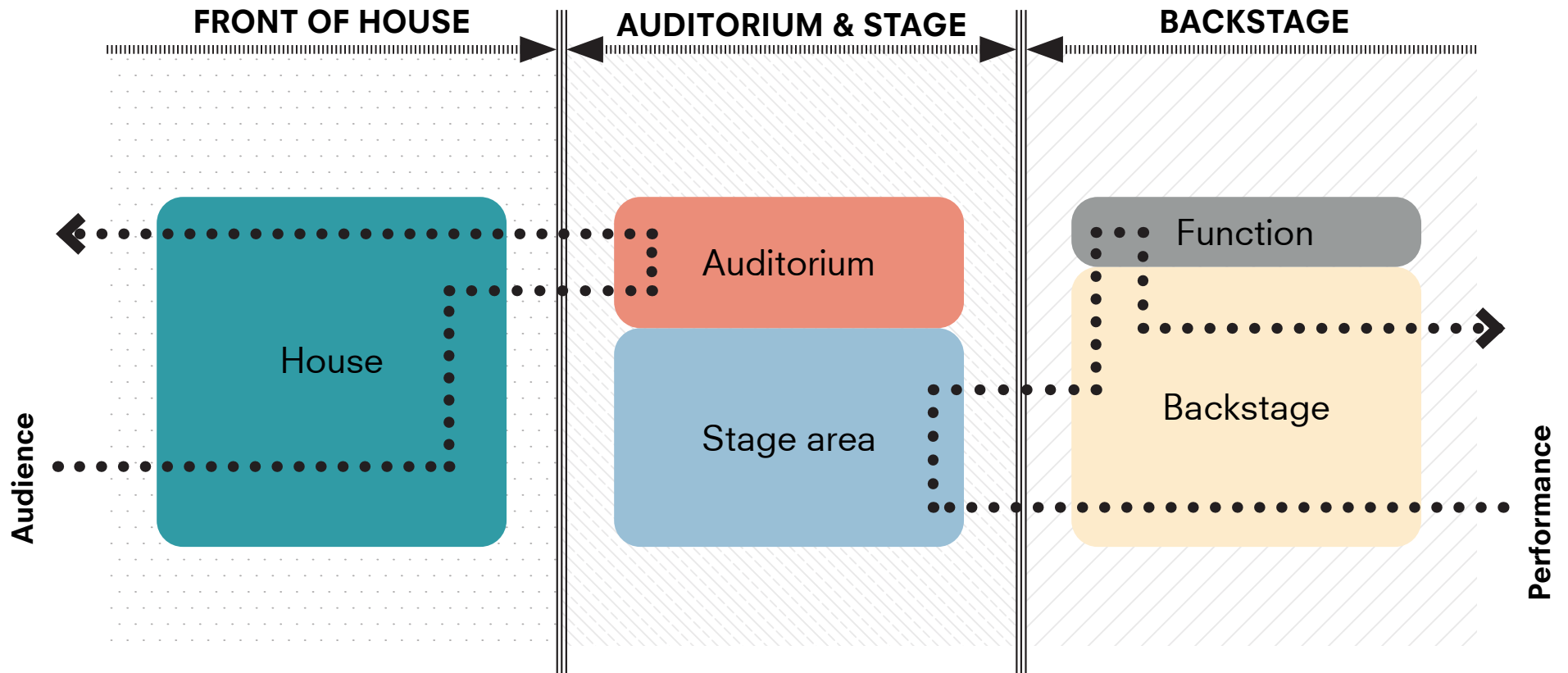
PERFECT CIRCUMSTANCES FOR PERFORMANCE



Research
CLEAR SEPERATION



Research
BASIC FORM



RELATION SCHEME

Separation between public and private
.....

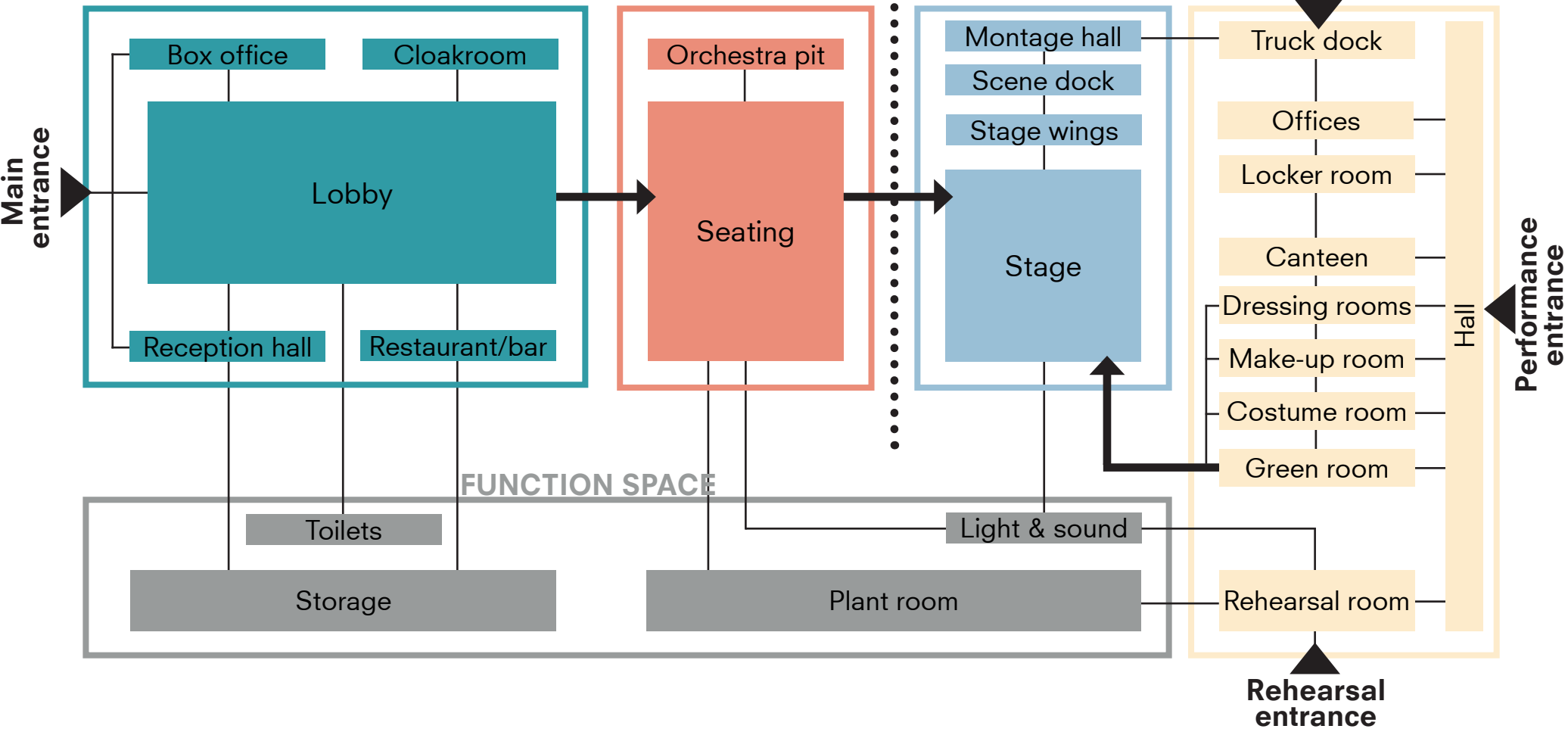
FRONT OF HOUSE

AUDITORIUM

STAGE AREA

Logistic entrance

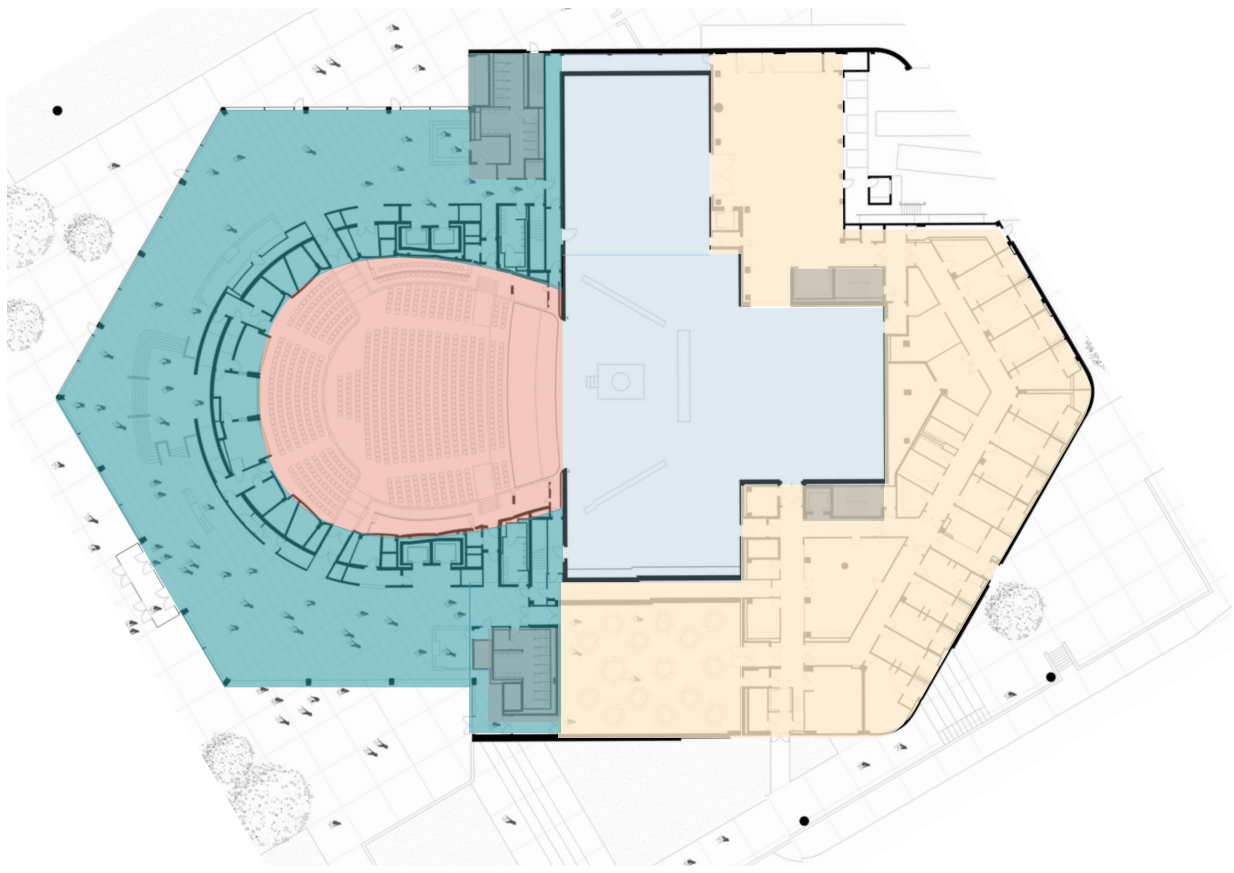
BACKSTAGE



Research
QUESTION

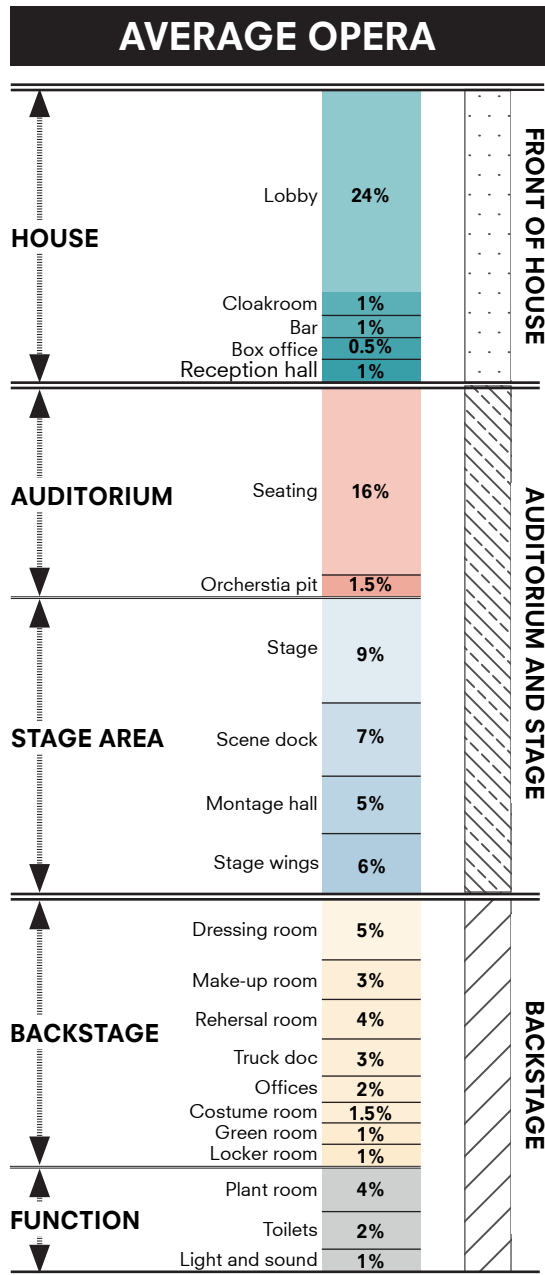
**HOW MANY M2
DO THE SPACES
NEED TO BE?**

Research
21TH CENTURY OPERA

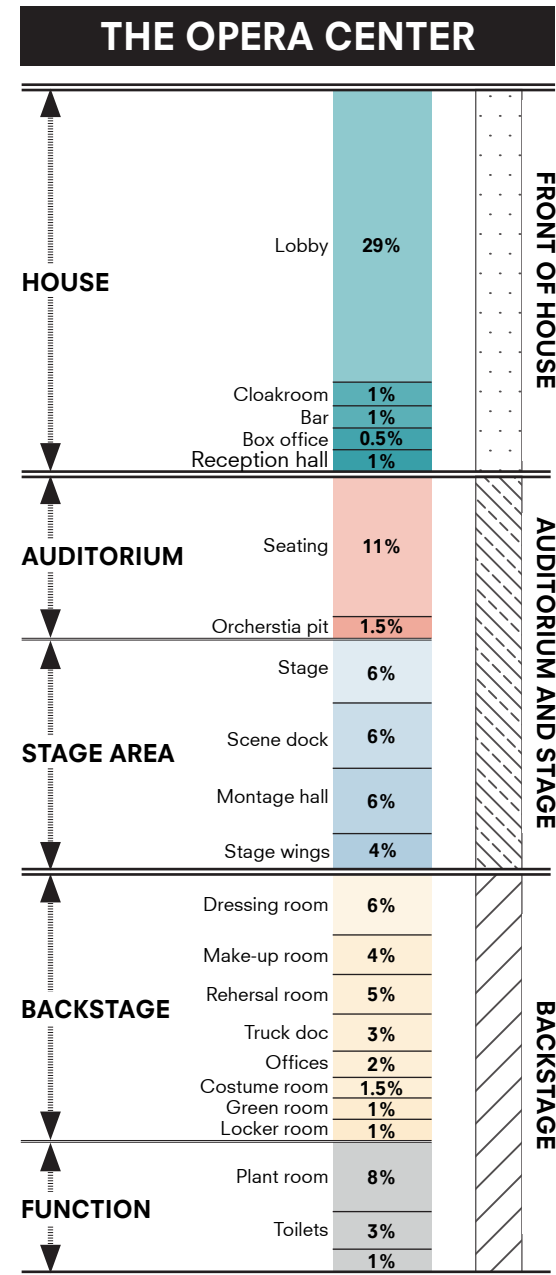


Winspear opera 25000m²

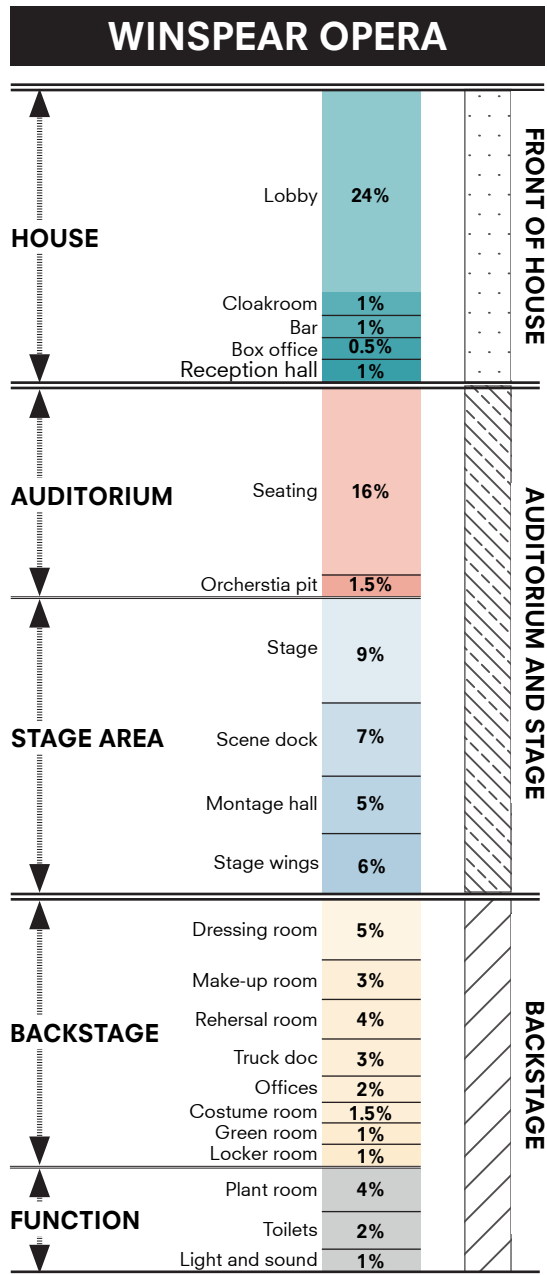
SQUARE METERS IN PERCENTAGE



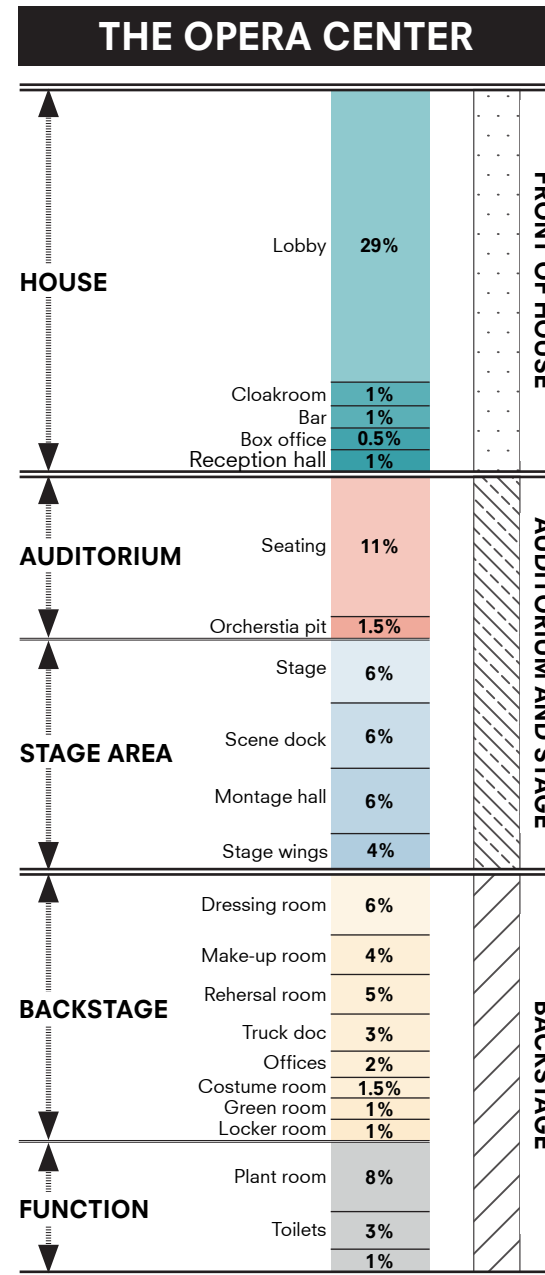
VS



SQUARE METERS IN PERCENTAGE



VS

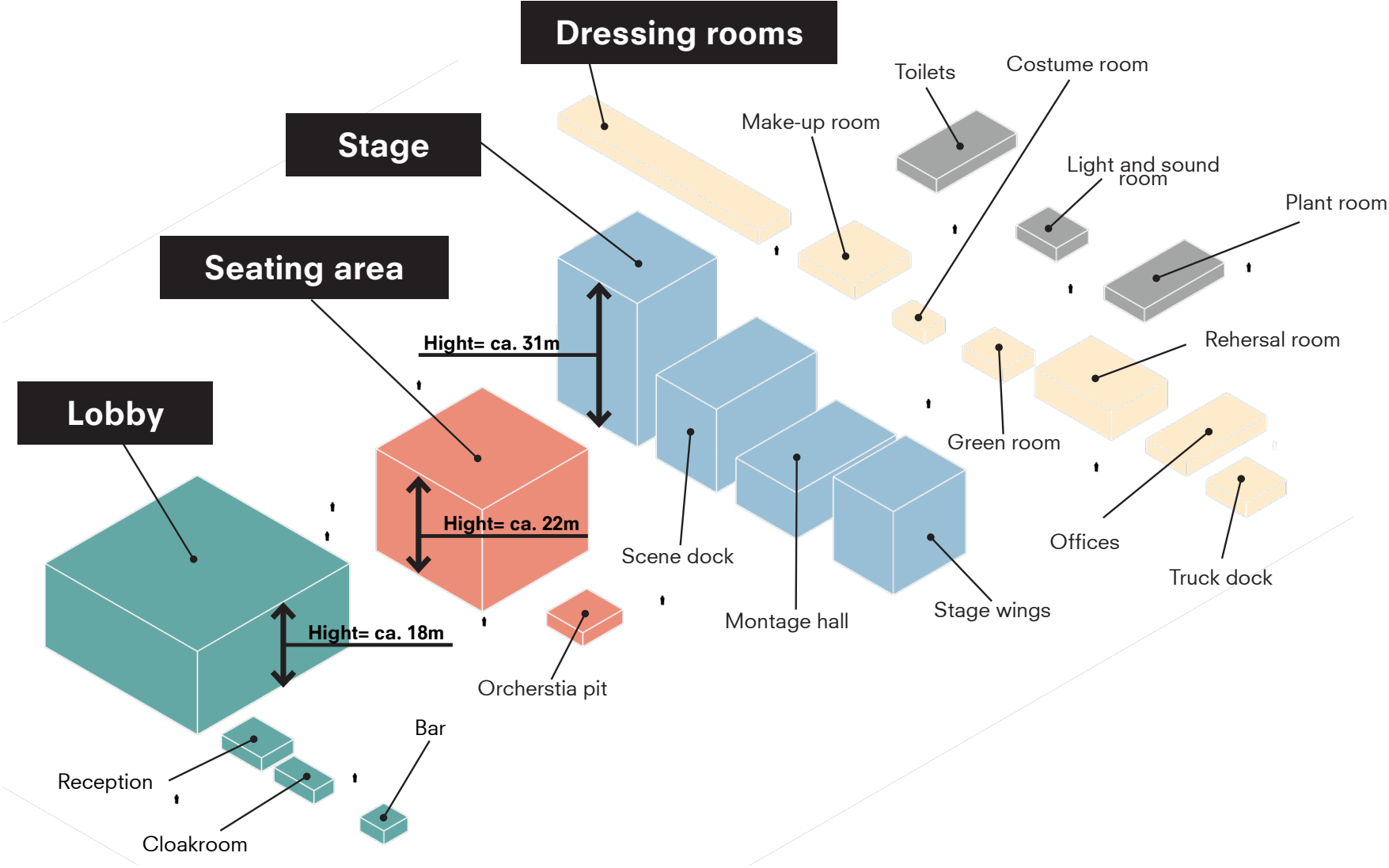


↑
Emphasis on the foyer
↓

Research
SQUARE METERS

room	Lengt	With	Hight	m2
lobby	38	38	18	3668
Reception	10	8	3	80
Long bar	10	10	3	100
Box office	6	6	3	36
Cloakroom	5	5	3	25
	69	67		7818
Seating area	26,5	26,5	22	1825
Orcherstia pit	9	10	3	90
	35,5	36,5		3830
Stage	20	20	31	400
Scene dock	25	15	18	375
Montage hall	25	15	10	375
Stage wings	18	15	18	270
	88	65		2840
Dressing room	50	8	3	1200
Make-up room	14	14	3	750
Costume room	8	5	3	200
Green room	10	8	3	80
Room for extra function	10	10	6	100
Rehersal room	19	14	6	810
Locker room	10	10	3	100
Offices	10	10	3	400
Truck dock	20	10	3	200
	151	89		7680
Storage	4	5	3	60
Toilets	10	20	3	180
Light and sound room	8	10	3	80
Plant room	50	10	3	700
	72	45		2040
	415,5	302,5		24208

Research VOLUMES



Research
NEEDS

GFA: 25.200m²
Capacity: 1500 chairs
Plot size: 12.500m²
Sqm: 62.000m²

Research
CONCLUSION

THE LOBBY CAN USE UP A BIG
PERCENTAGE OF THE OPERA

IT'S A SOCIAL SPACE

Research
AMBITIONS AND GOALS



MAXIMUM EXPERIENCES

**Interactive experience
concept**



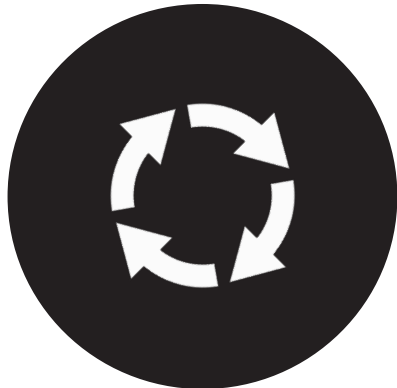
SOCIAL INTERACTION

**Bringing people
together**



EDUCATIONAL

**Connecting with
conservatories and
educational faculties**



SUSTAINABLE

**Futureproof,
multifunctional**

Research
REQUIREMENTS

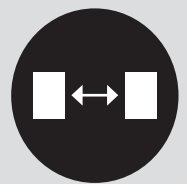
SITE



**CULTURAL
SYMBIOSIS**



CAPACITY



**ASSOCIATED
FACILITIES**



**CONNECTED
PUBLIC SPACE**

PROGRAM



**MAXIMUM
EXPERIENCES**



**SOCIAL
INTERACTION**



EDUCATIONAL



SUSTAINABLE

CLIENT



**CULTURAL
VALUE**



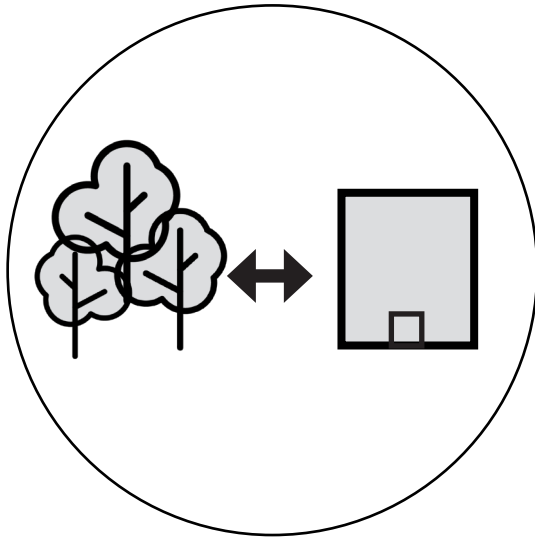
**UNIQUE/
OUTSTANDING**



FUTURE PROOF

CONCEPT

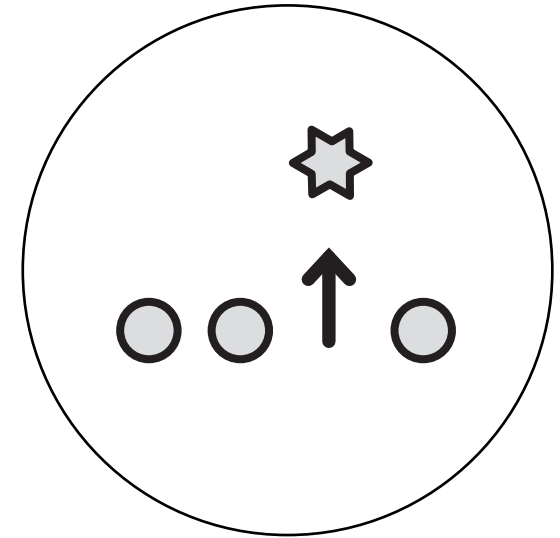
AMBITIONS FOR BUILDING PRINCIPLES



Involve the park in the building



Stimulate social interaction

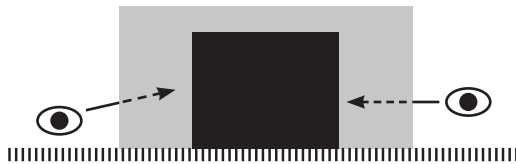


Unique/ outstanding

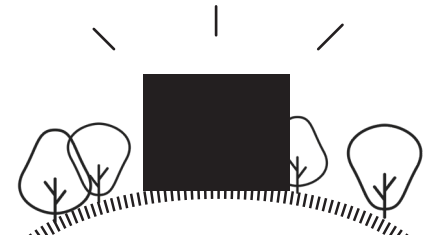
Concept
PRINCIPLES



Park becomes part
of the foyer

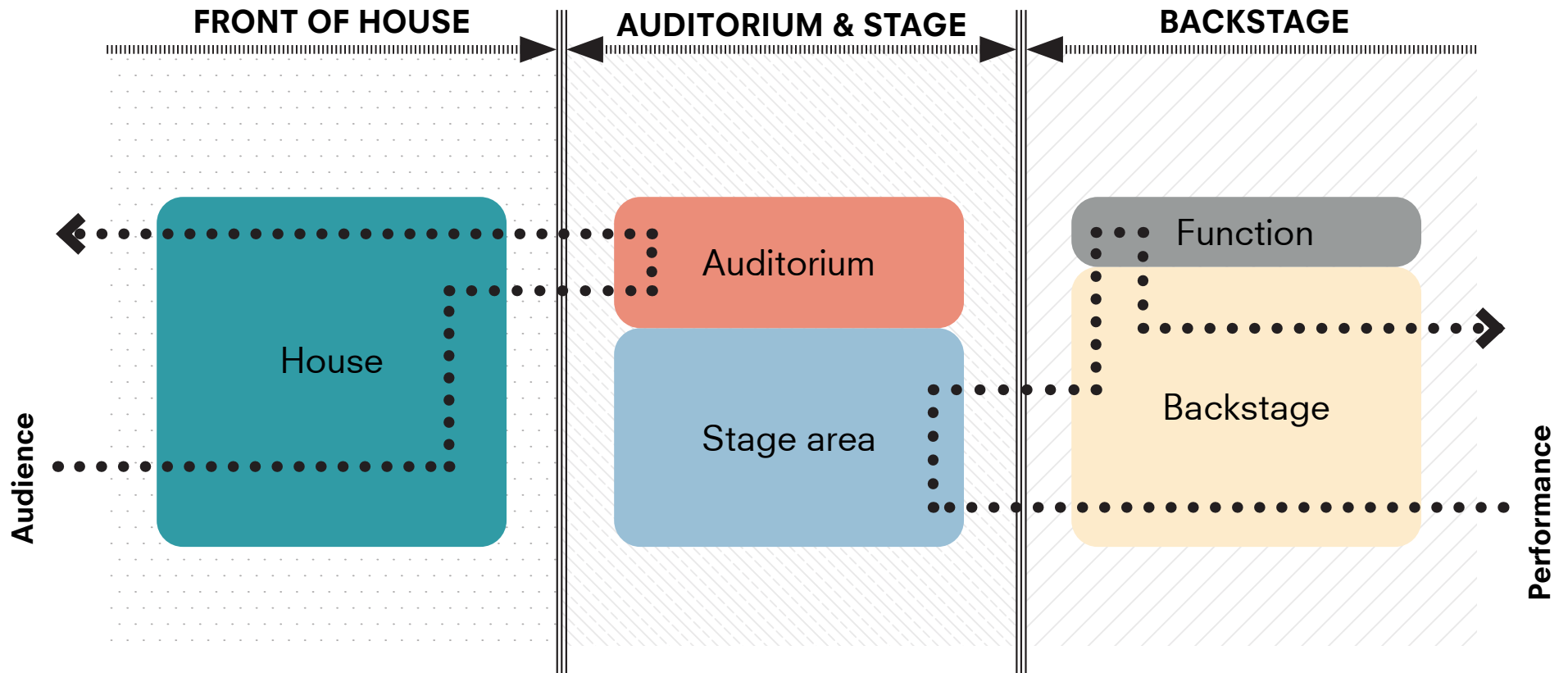


Transparency of the
functions

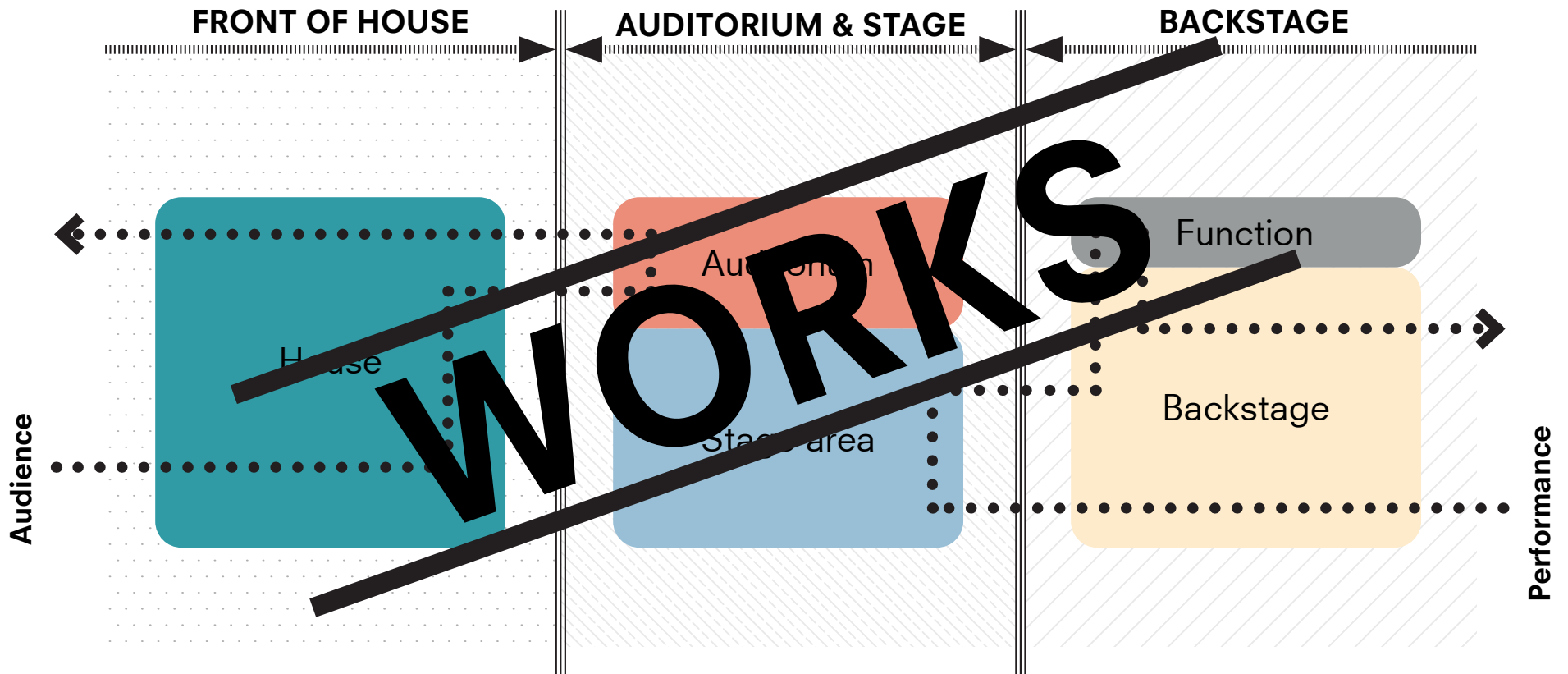


Black box in the
landscape

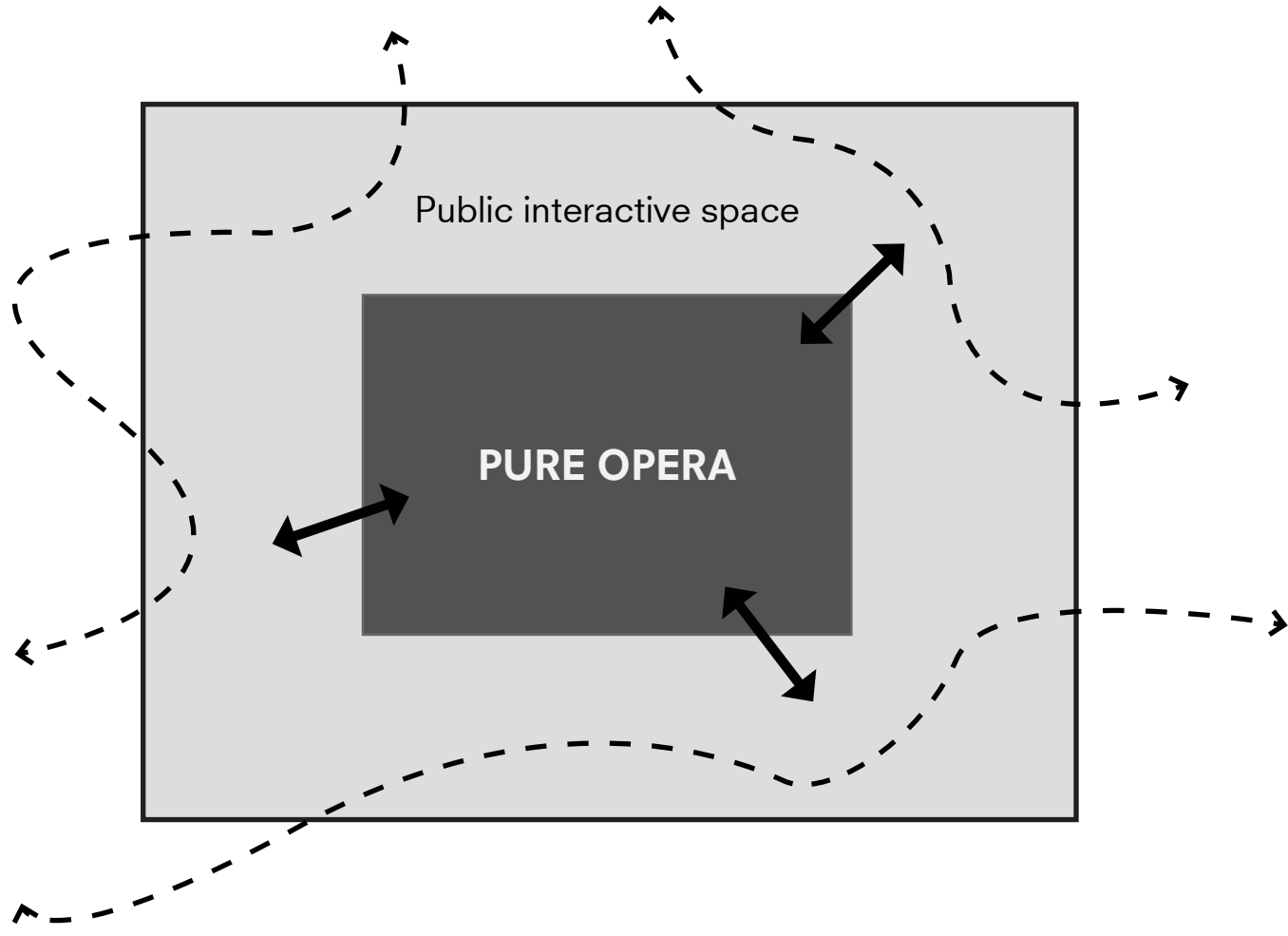
Concept
STRONG HIERARCHY PURE OPERA



DONT CHANGE ANYTHING ABOUT THE HIERARCHY



Concept
STRUCTURE BUILDING



Concept
QUESTION

**HOW TO
DO IT?**

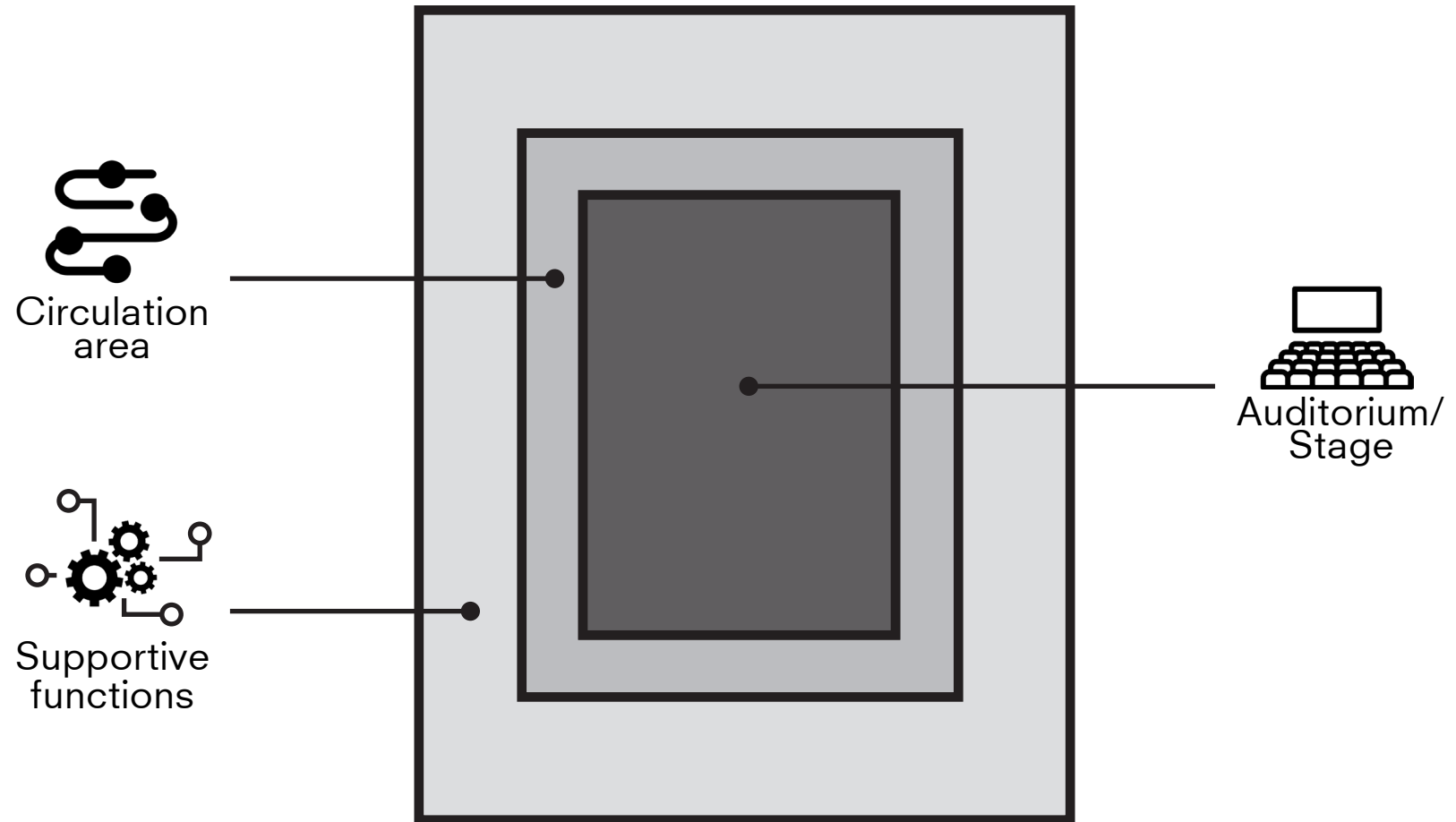
Concept
FOCUS ON THE FOYER



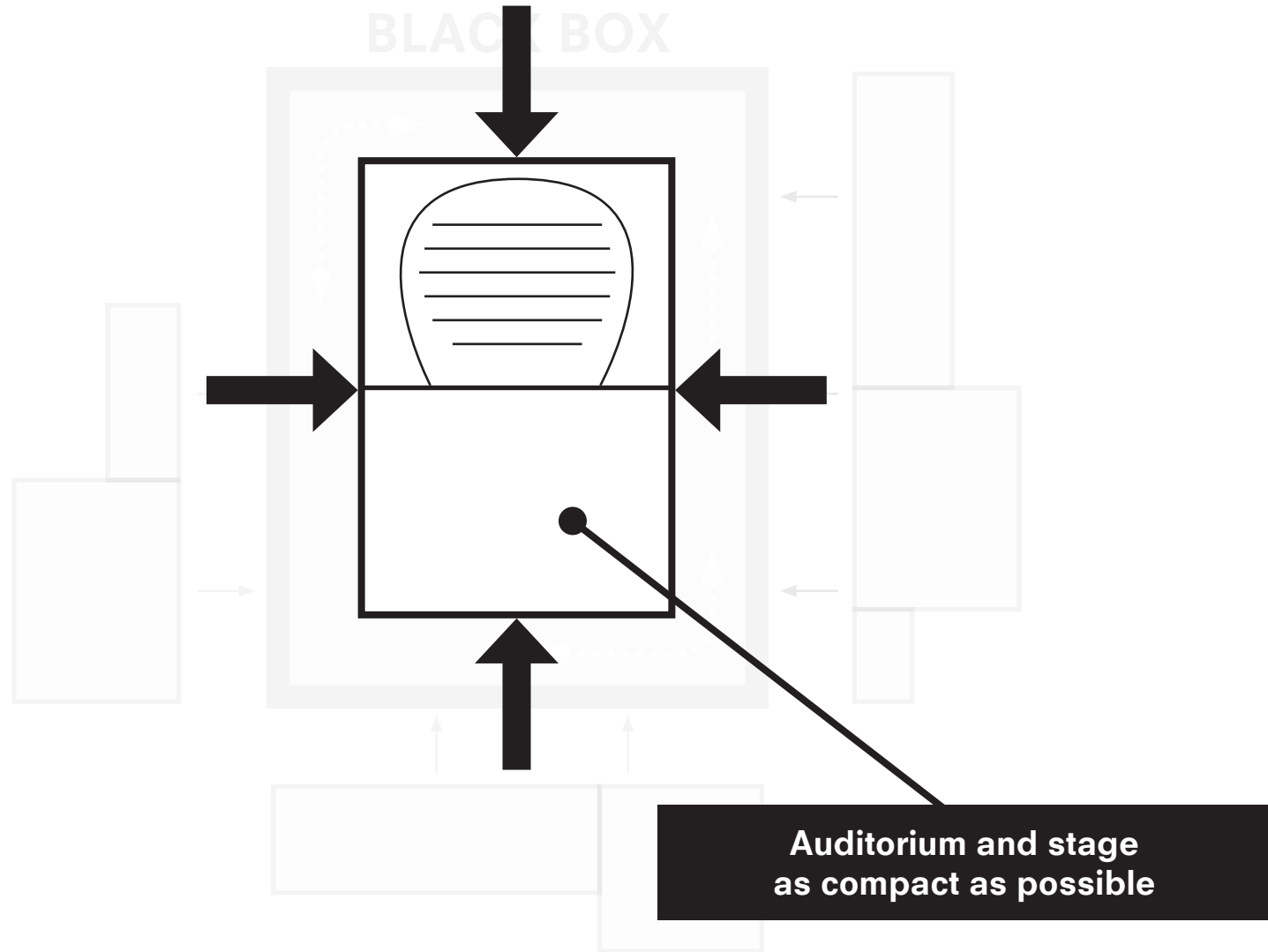
Concept
STRUCTURE OPERA

PURE OPERA

Concept
STRUCTURE OPERA

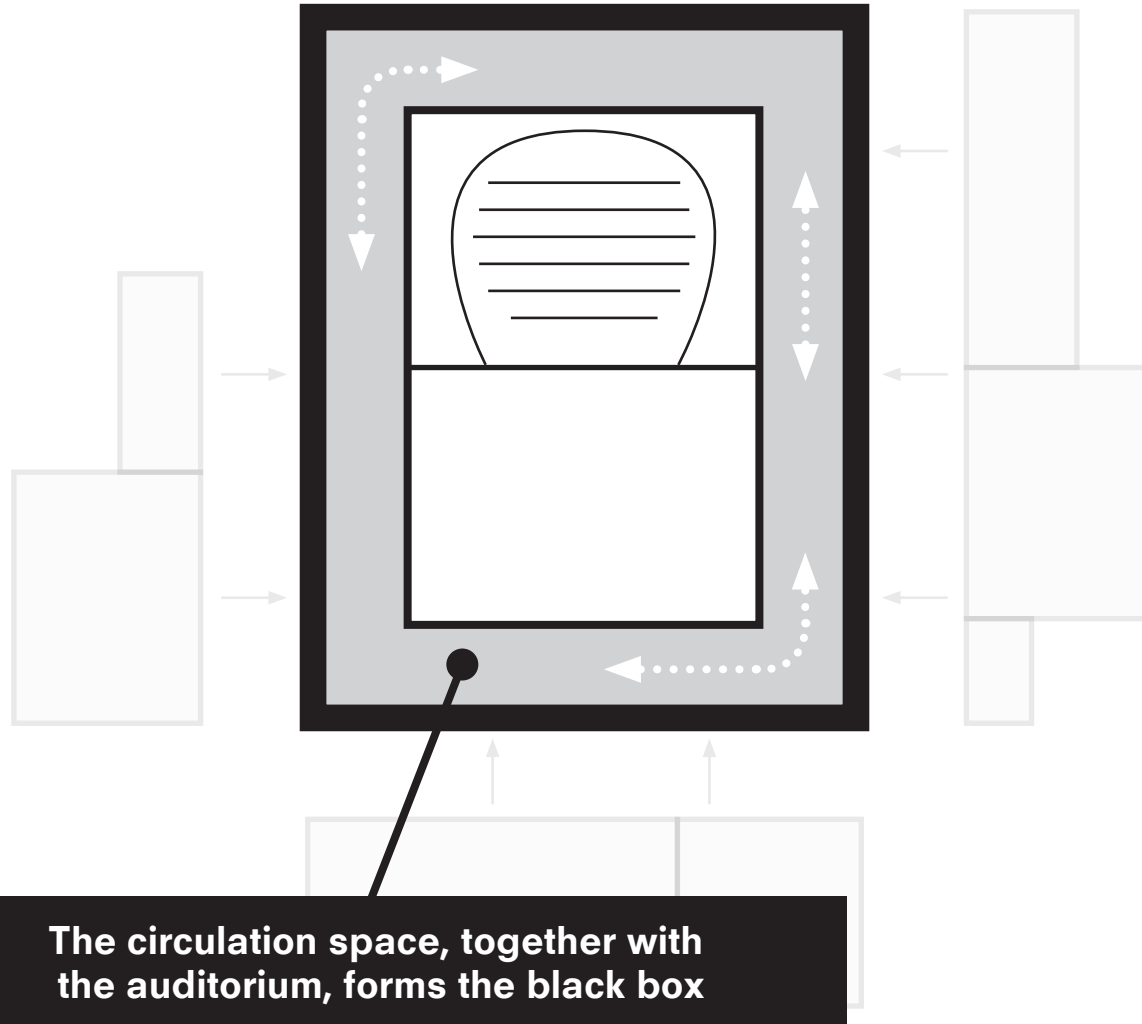


Concept
STRUCTURE OPERA

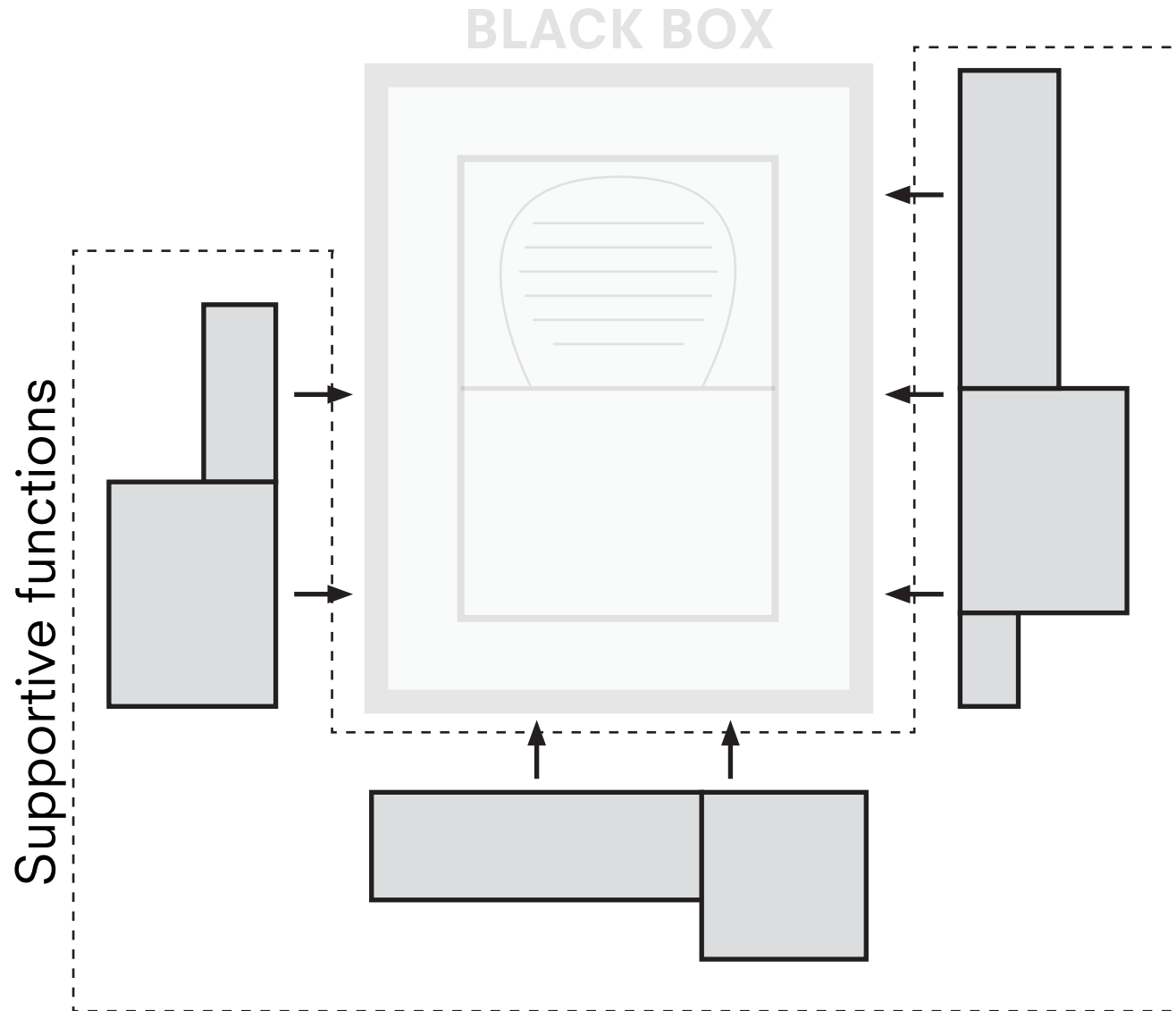


Concept
STRUCTURE OPERA CIRCULATION

BLACK BOX

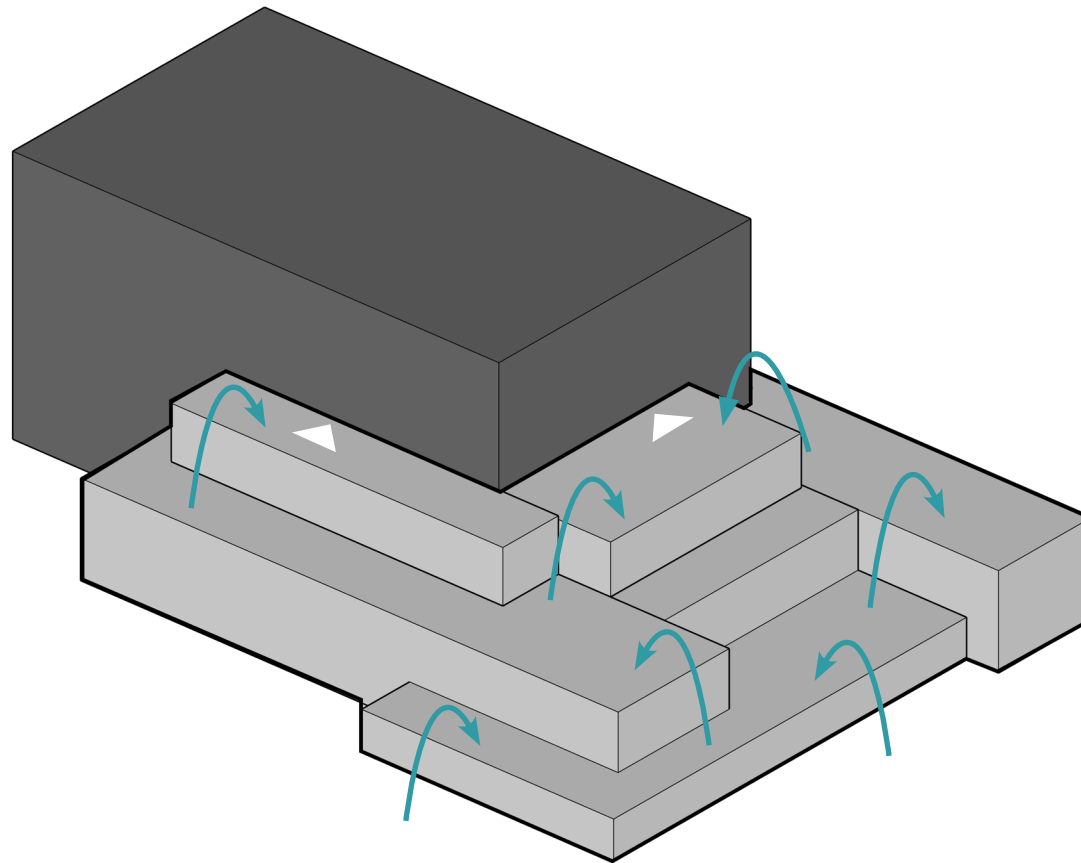


Concept
STRUCTURE OPERA

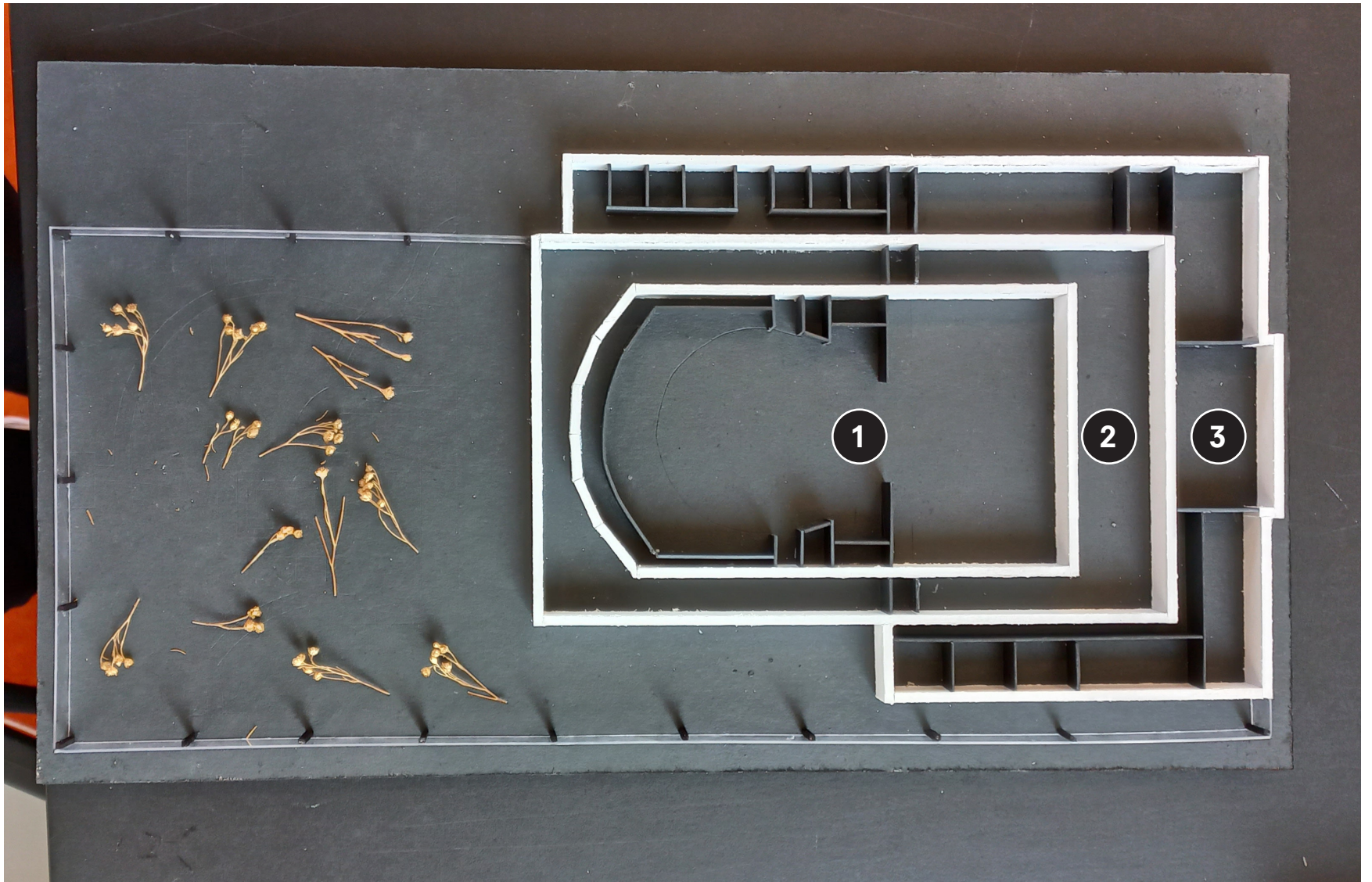


Concept

SUPPORTIVE FUNCTIONS CREATING A LANDSCAPE TO WALK AROUND



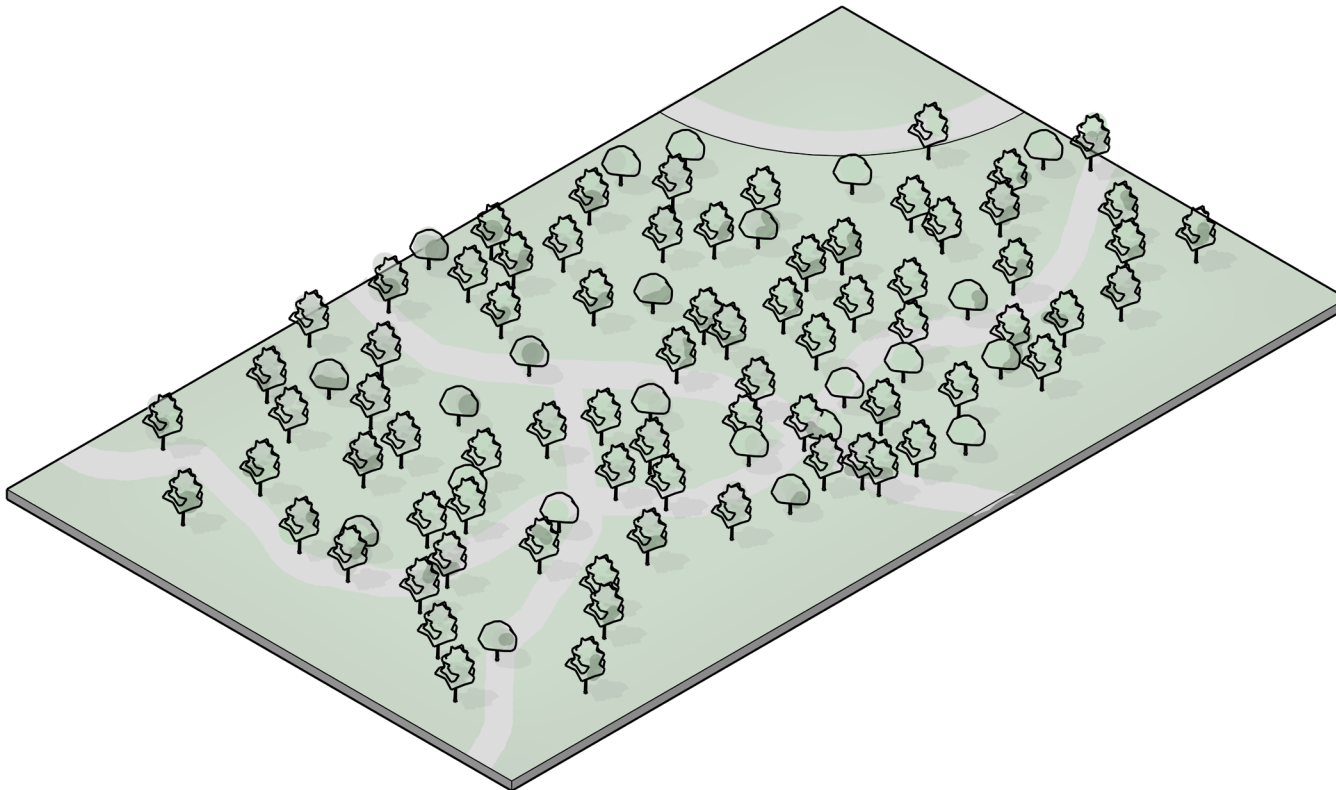
Concept
MODEL



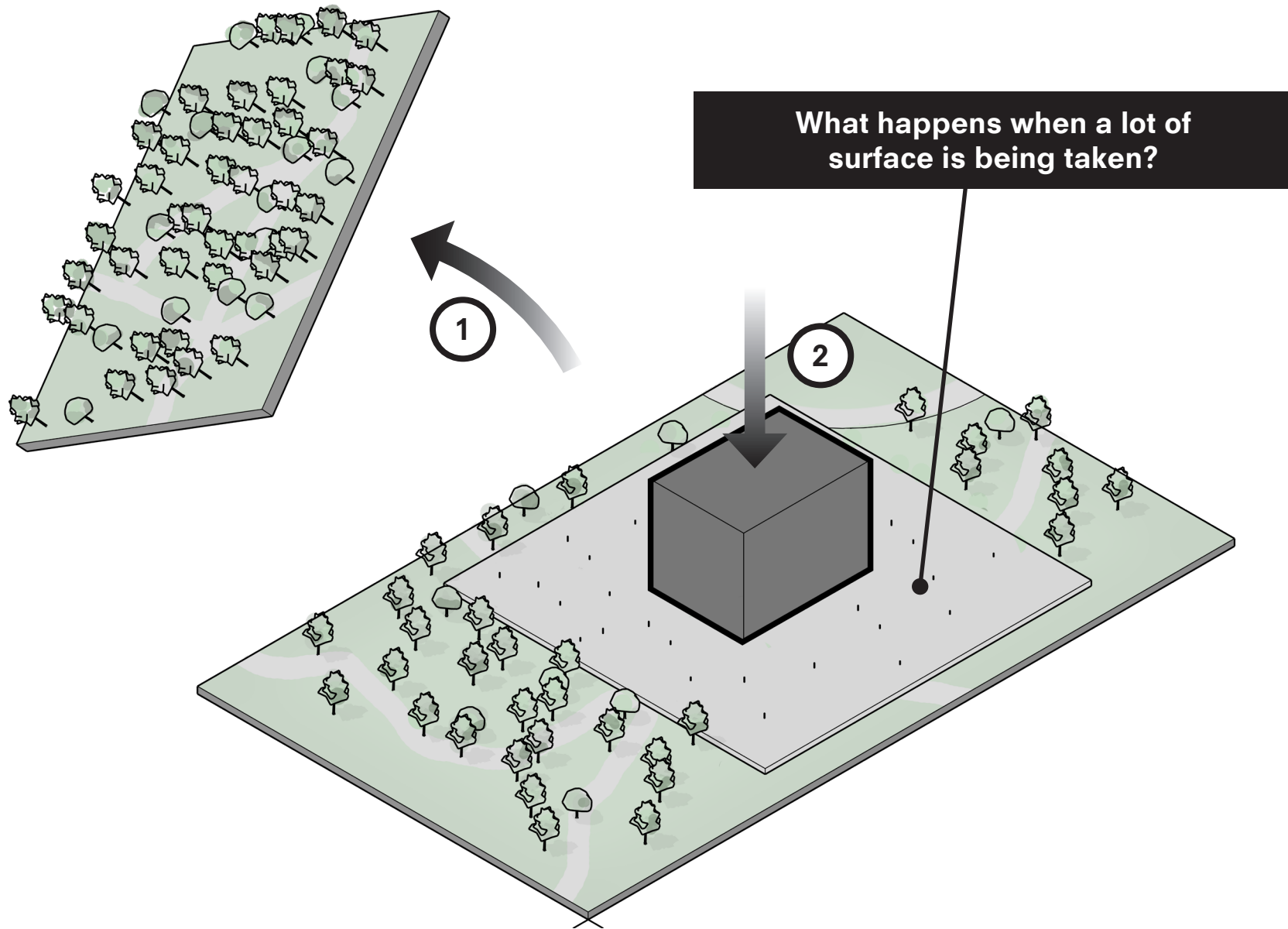
Concept
QUESTION

**WHERE TO
PLACE IT IN THE
LANDSCAPE?**

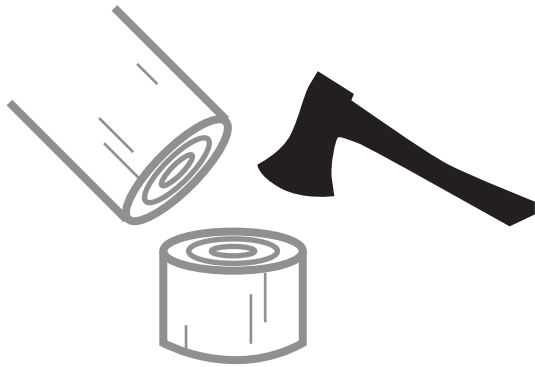
Concept
FIRST THOUGHTS



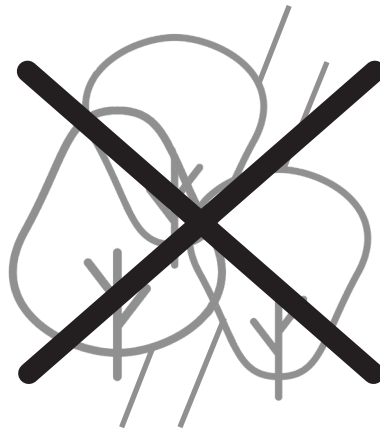
Concept
QUESTION



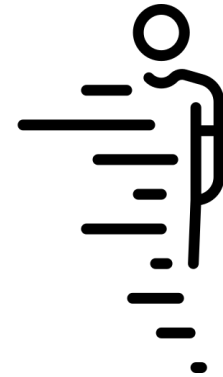
Concept
NEGATIVE ELEMENTS



**UNNECESSARY
FELLING OF TREES**

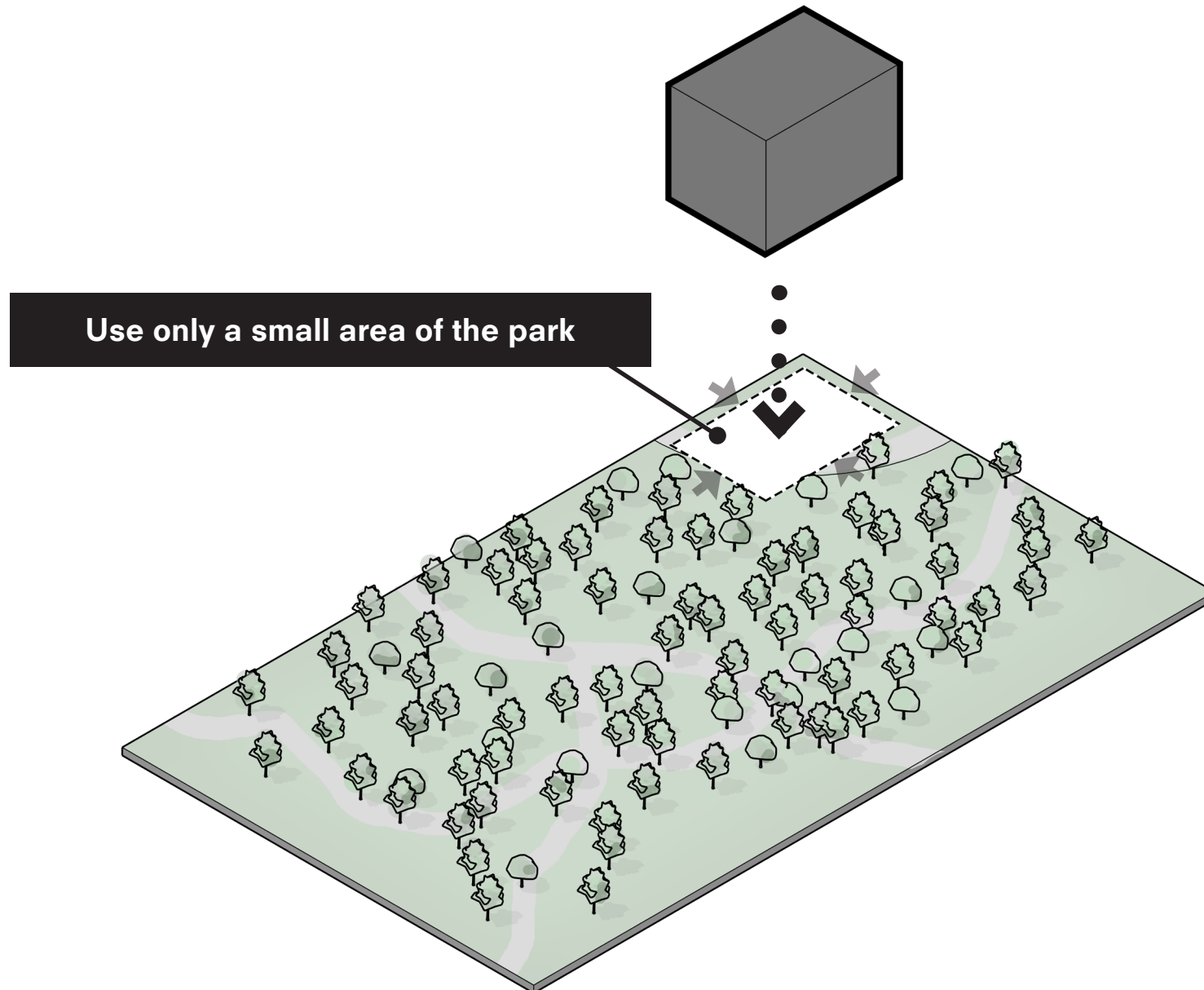


**ELIMINATING
THE PARK**



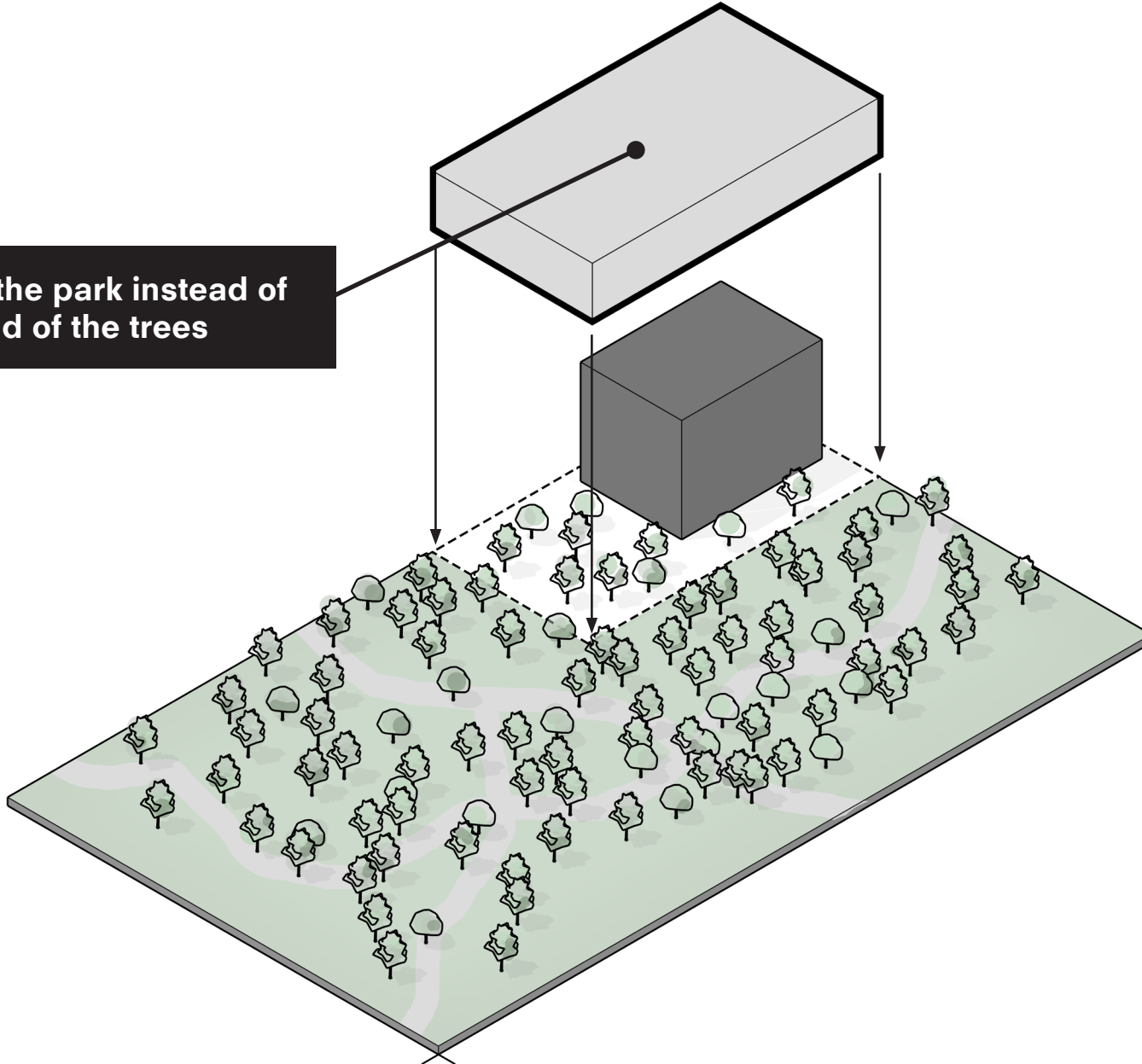
**FADING AWAY THE
CHARACTER OF THE
PLACE**

Concept
CONCEPTS

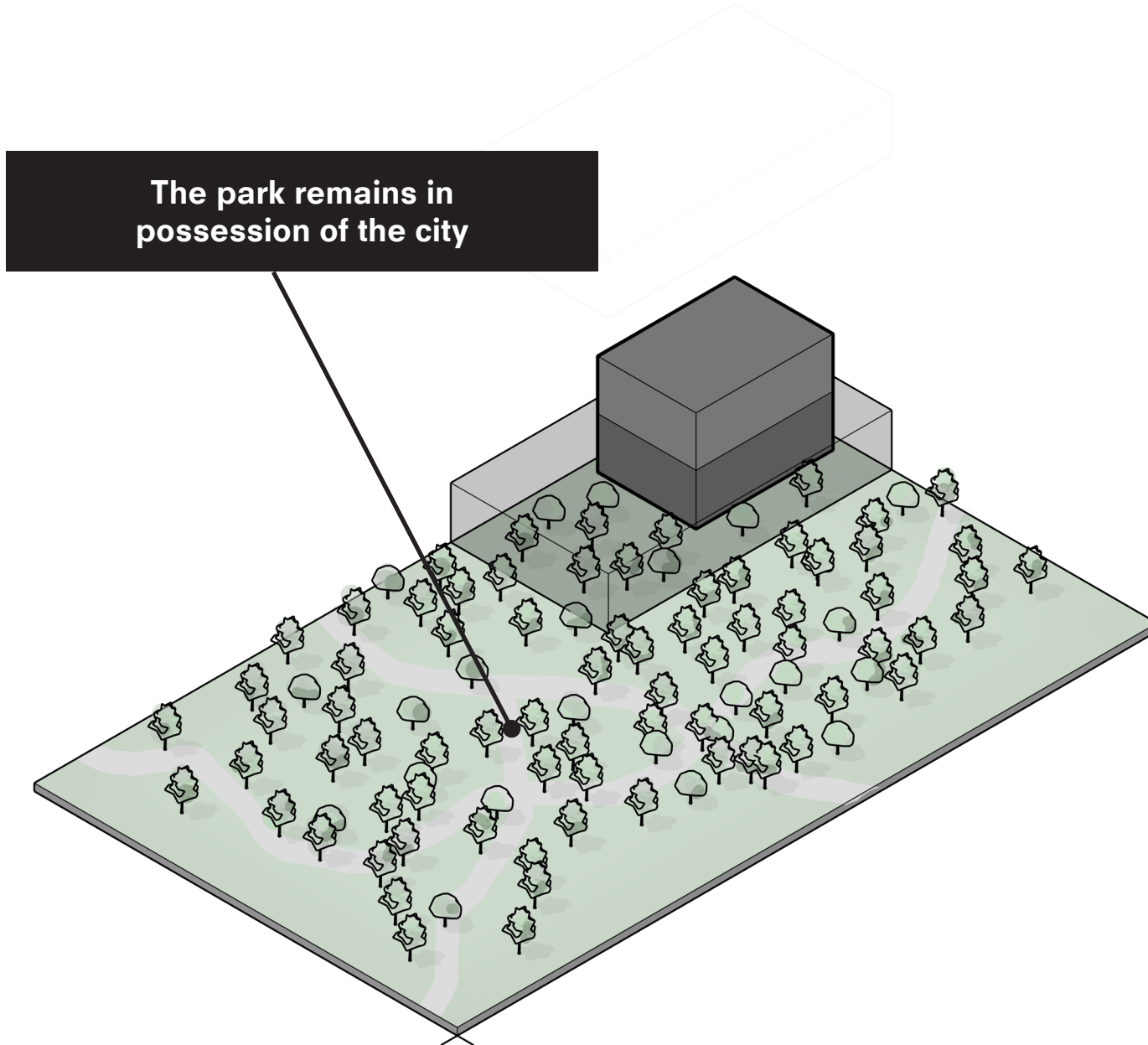


Concept
CONCEPTS

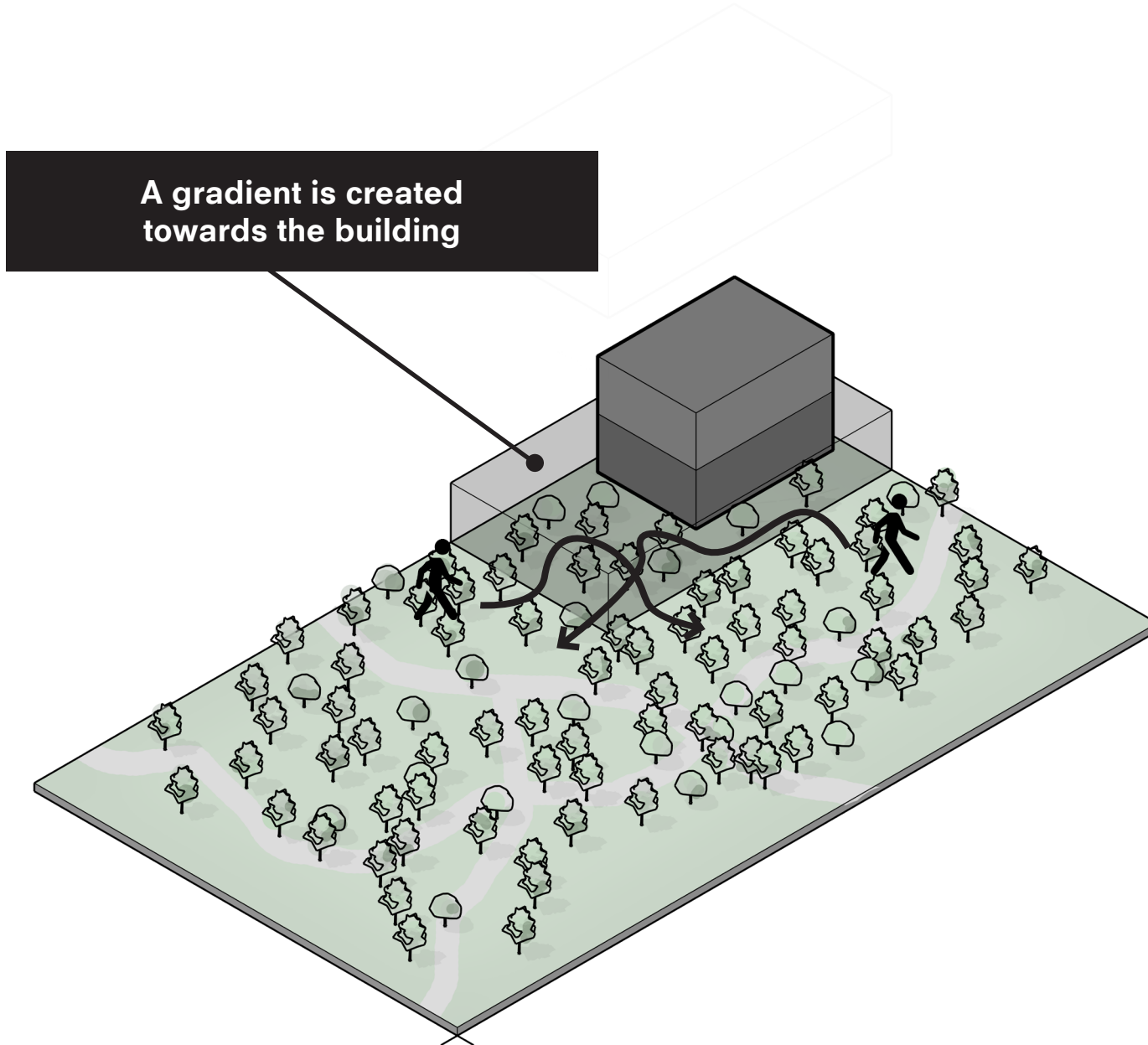
Add a roof to the park instead of getting rid of the trees



Concept
CONCEPTS

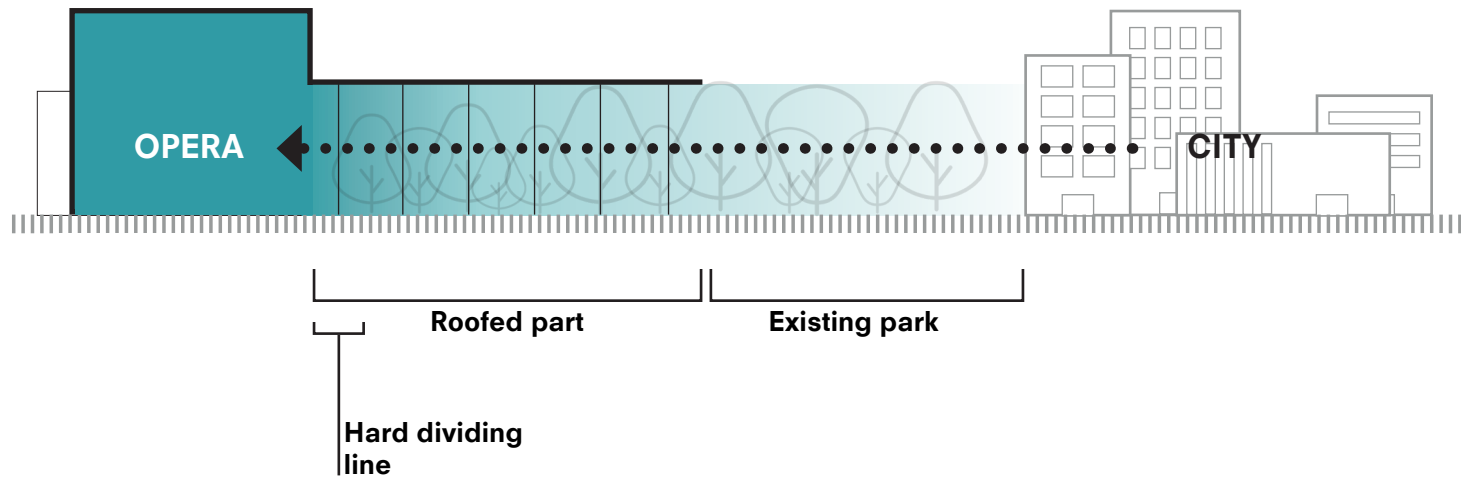


Concept
CONCEPTS



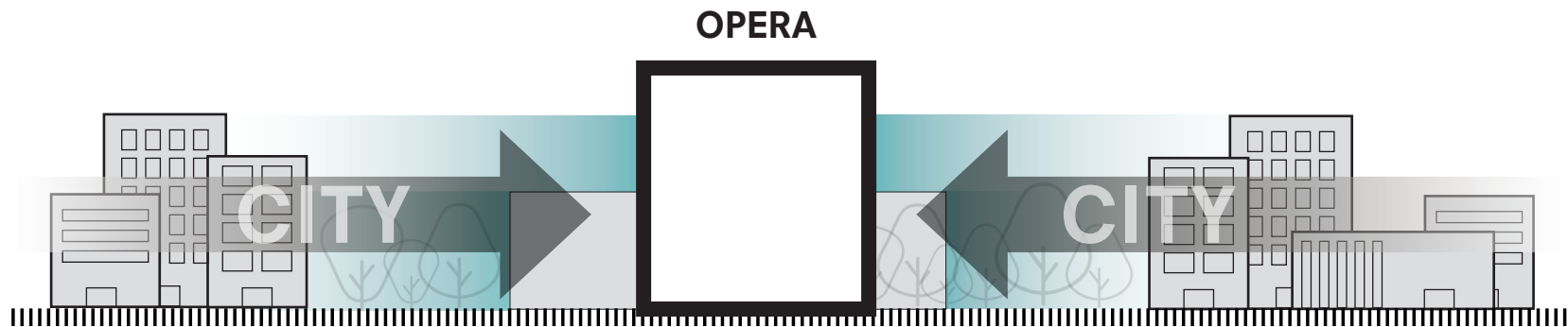
Concept

GRADIENT TO THE BUILDING



Concept

GRADIENT TO THE BUILDING



THE OPERA ADDS FUNCTIONALITY TO THE PARK

OPERA

- Shelter
- Usage in the winter
- Eating spot
- Usable without giving up being a foyer



Concept

PROVADE SPACES THAT THE COMMUNITY THRIVE



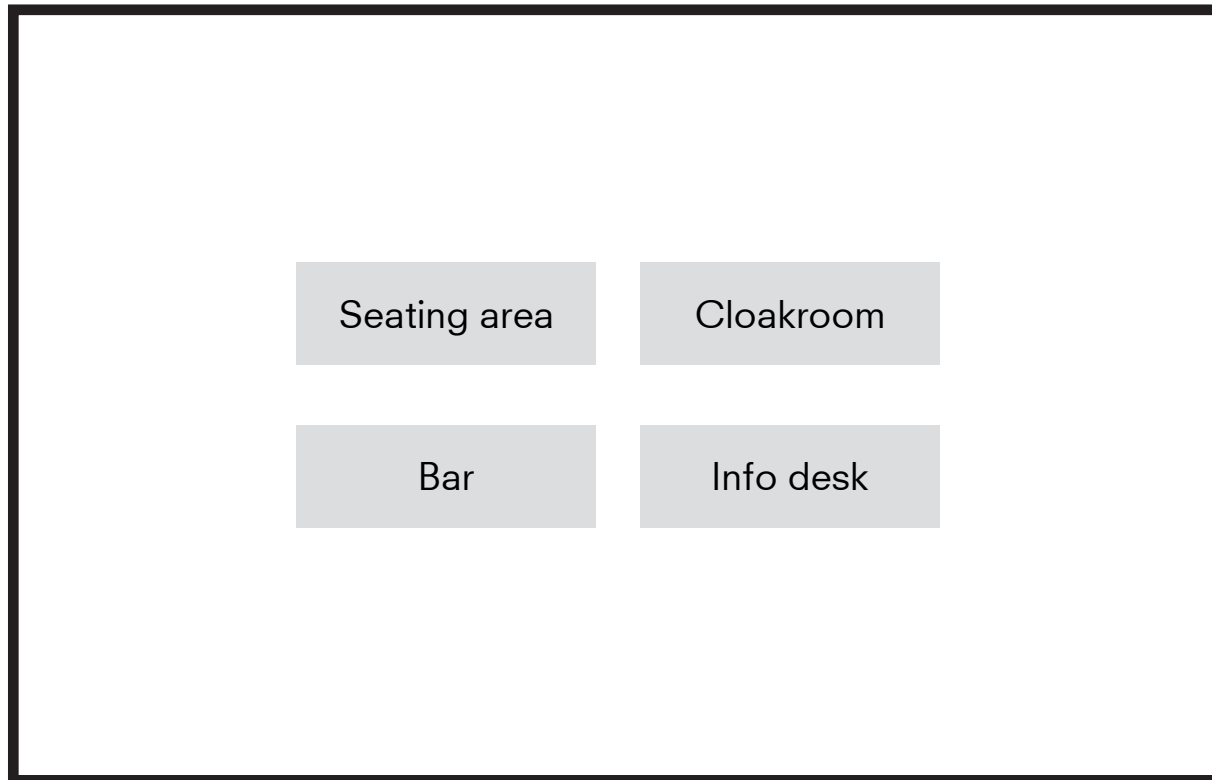
Concept
QUESTION

**HOW CAN THE FOYER
ACCOMODATE
DIFFERENT SETTINGS?**

Concept

FOUR ELEMENTS IMPORTANT FOR A FOYER

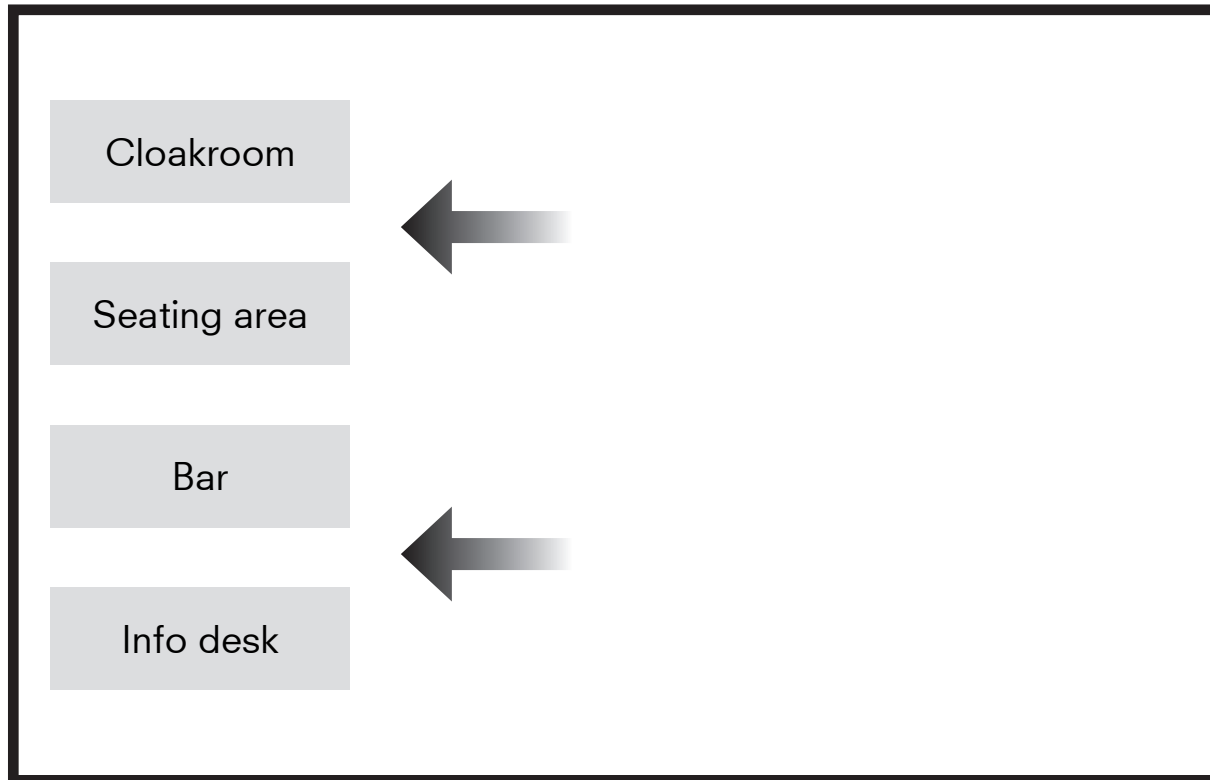
FOYER



Concept

FUNCTIONS ARE PLACED TO THE SIDE

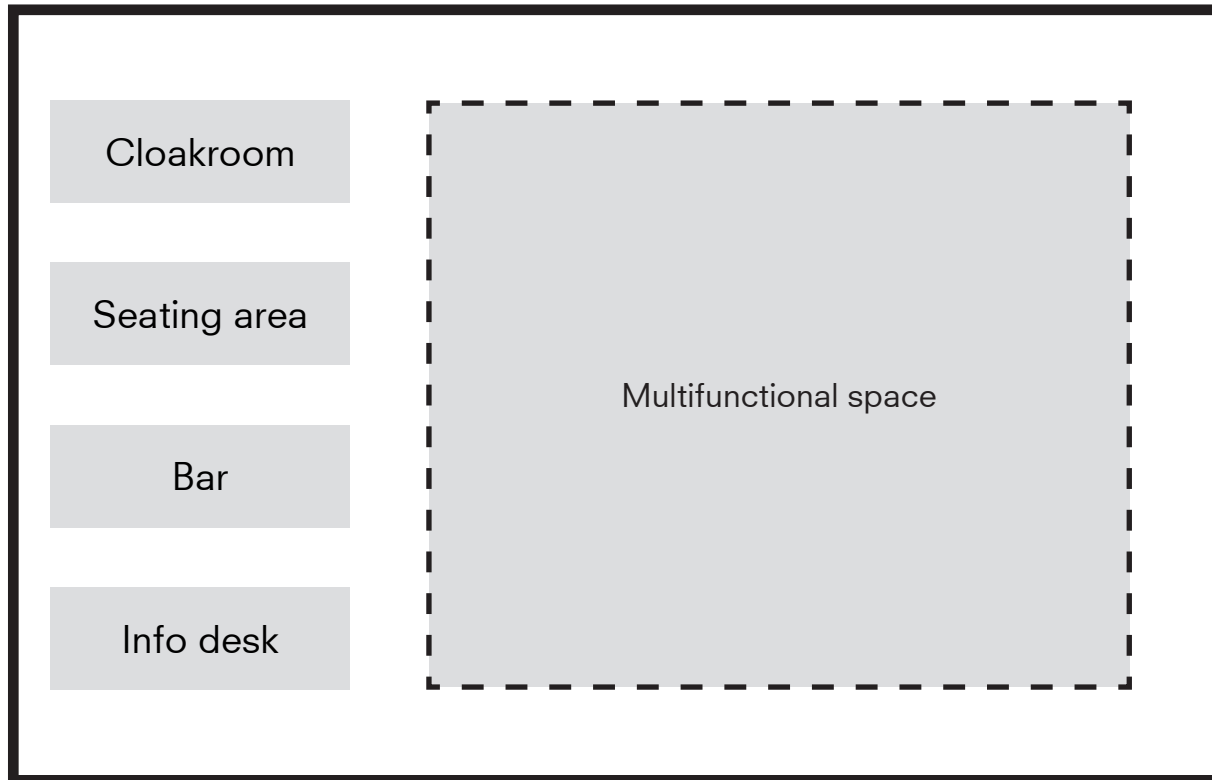
FOYER



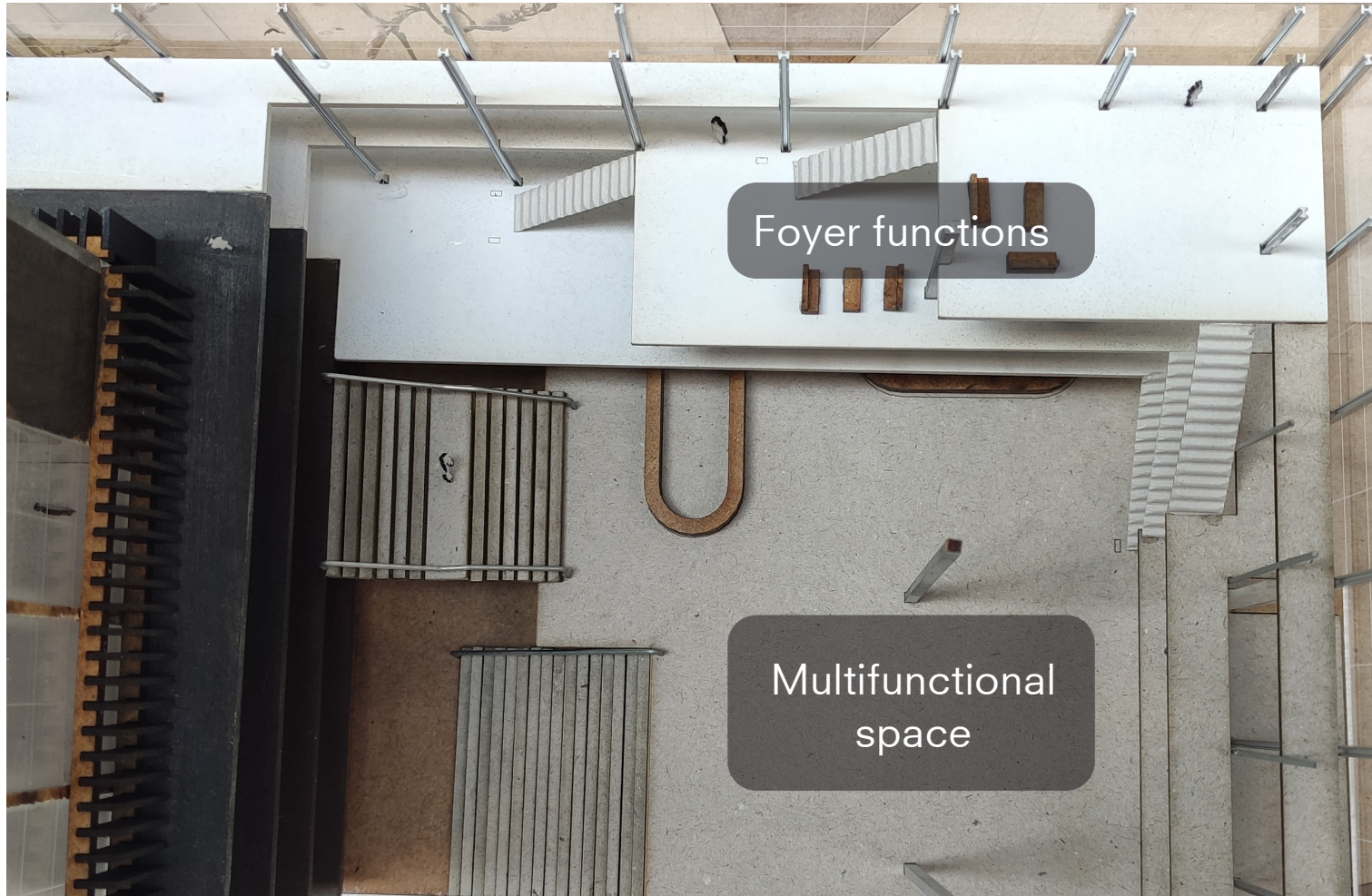
Concept

CREATES AN OPEN, MULTIFUNCTIONAL SPACE (ADAPTABLE)

FOYER

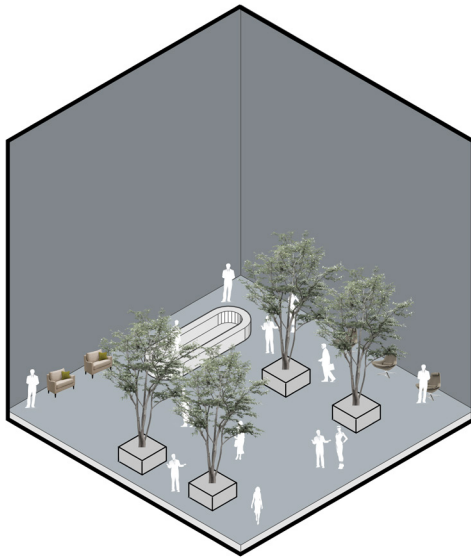


Concept
TOP VIEW FOYER

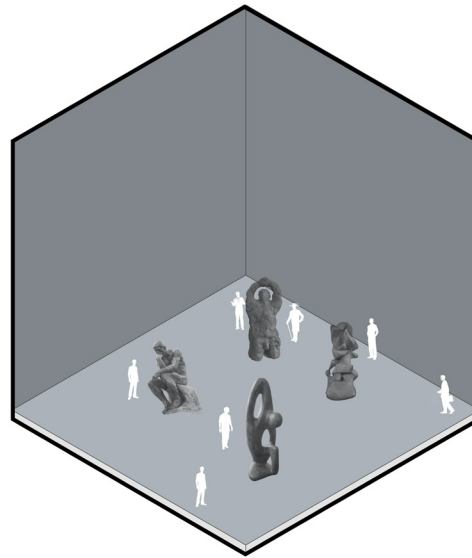


Concept

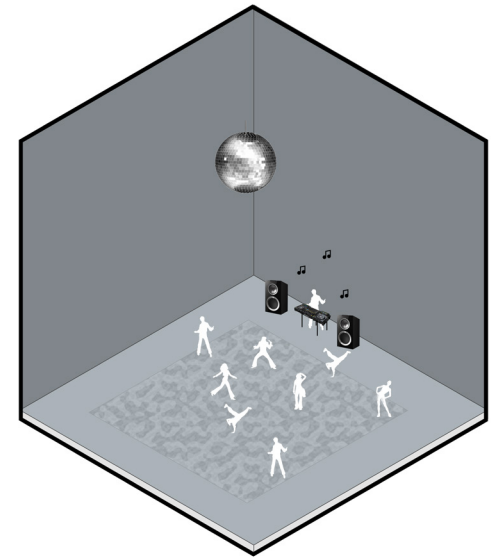
PROGRAM CAN BE FILLED IN HOWEVER THE INHABITANTS OF BERLIN WISH



Foyer



Art exhibition



Performances

Concept
FOYER WITH A PUBLIC ATRIUM



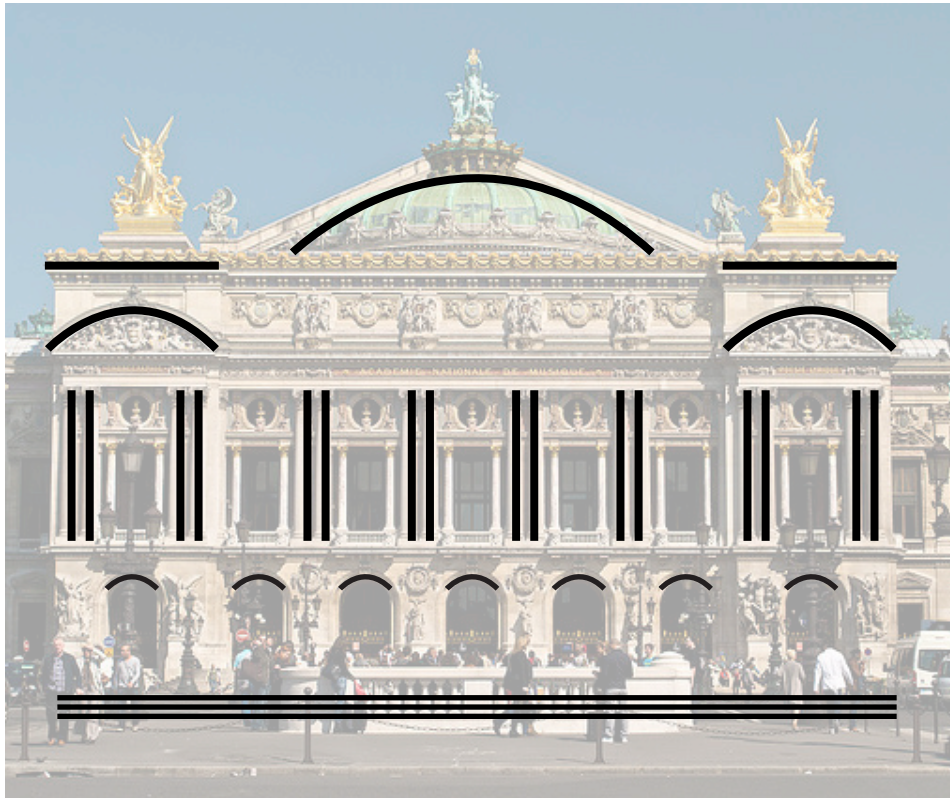
Character

Concept
QUESTION

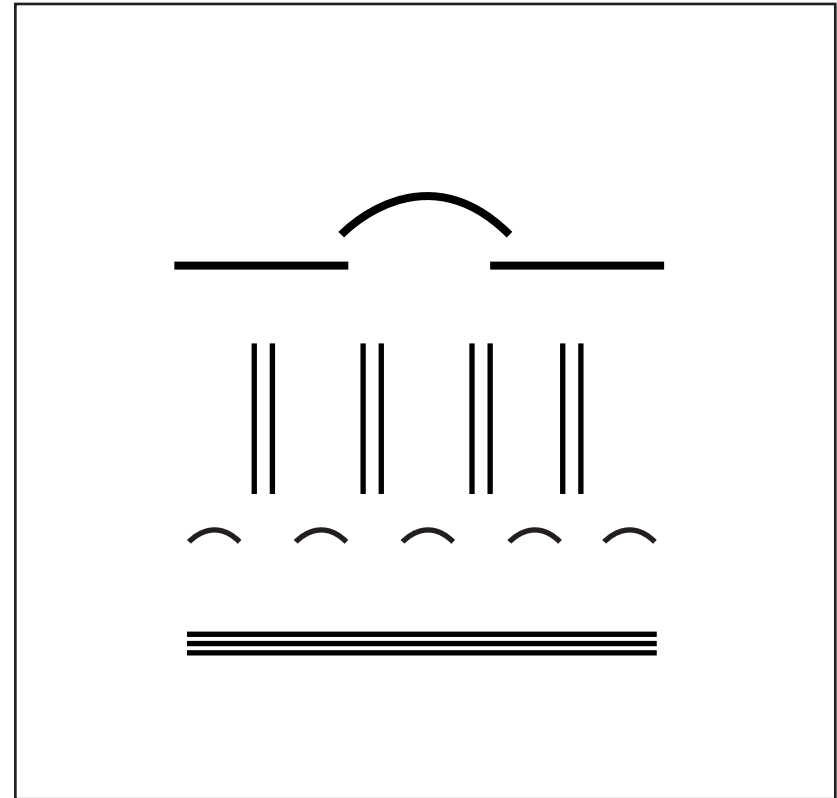
**HOW TO DEFINE
THE CHARACTER
OF THE BUILDING?**

Concept
CLASSIC OPERA TYPOLOGY

Opera garnier

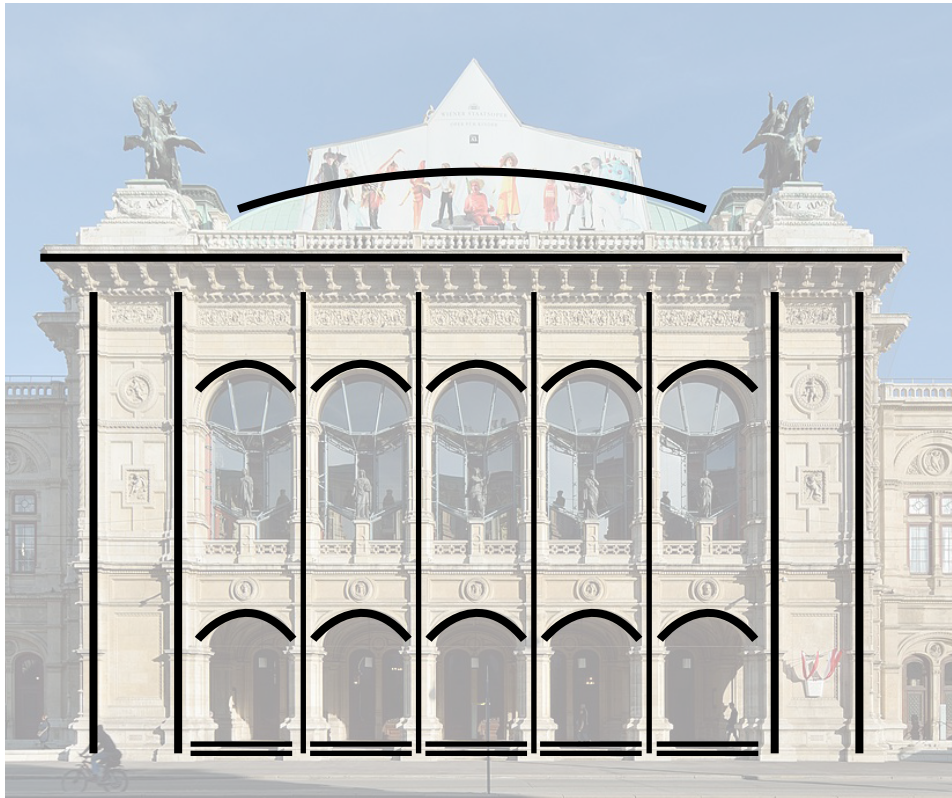


Form

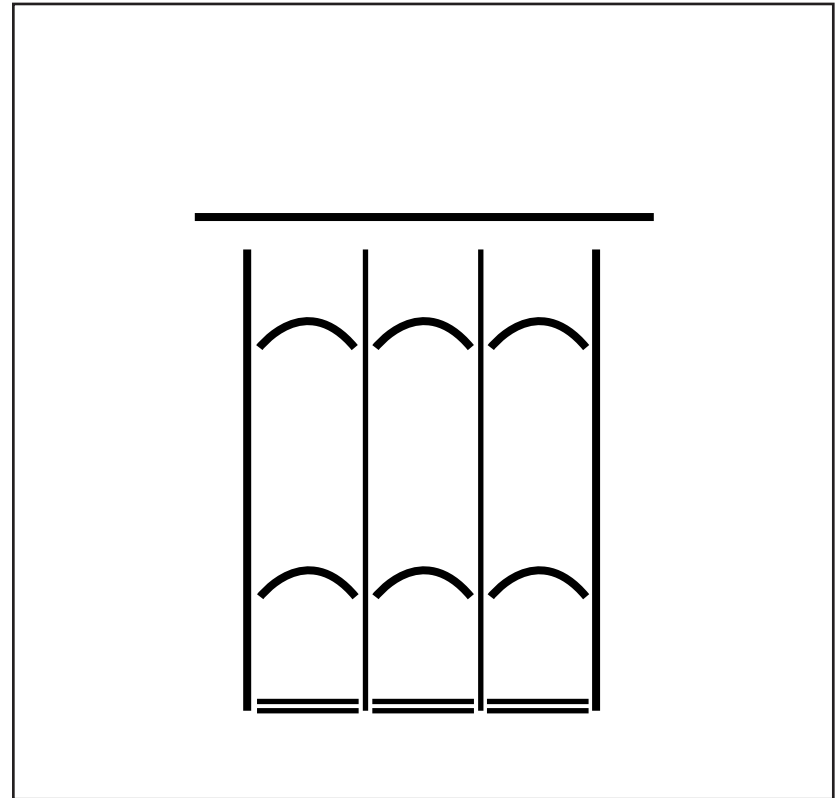


Concept
CLASSIC OPERA TYPOLOGY

Vienna State Opera

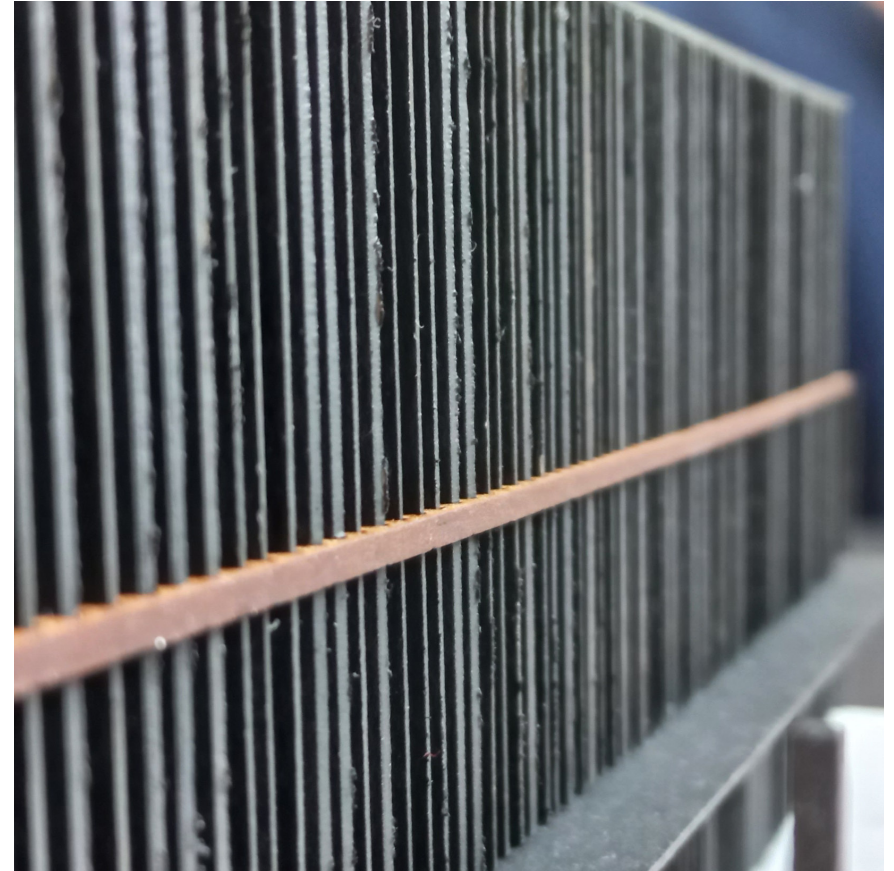
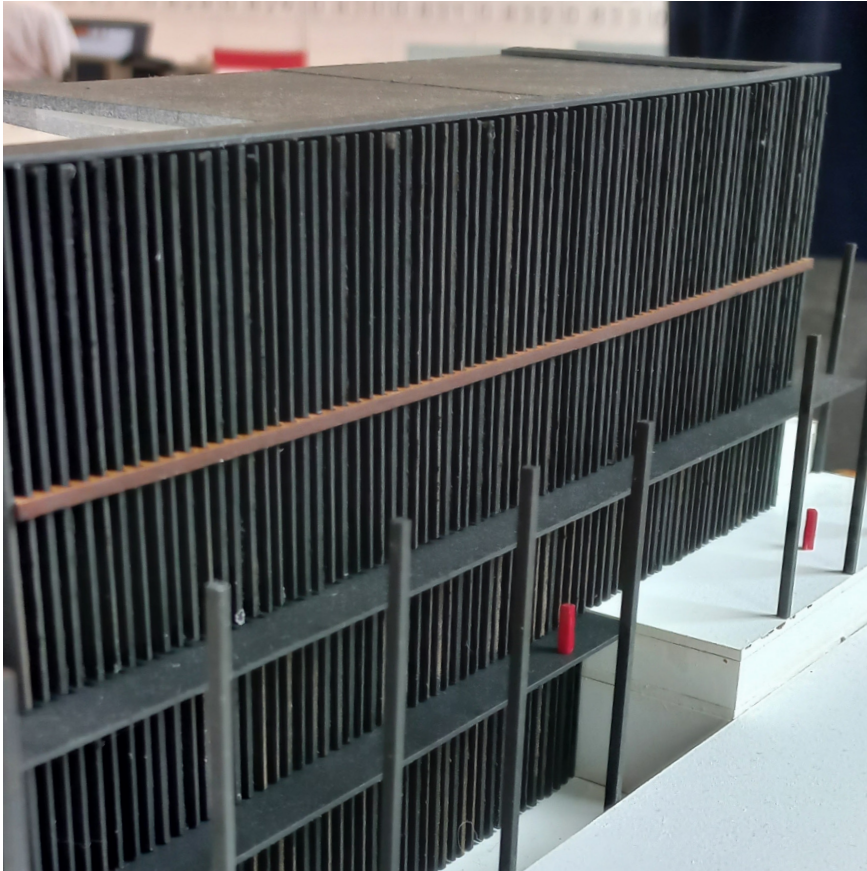


Form



Concept

USE THE VERTICAL LINES IN THE OPERA BUILDING



Concept

KEEP CHARACTERISTIC ATMOSPHERE OF FORMER STATION



Concept

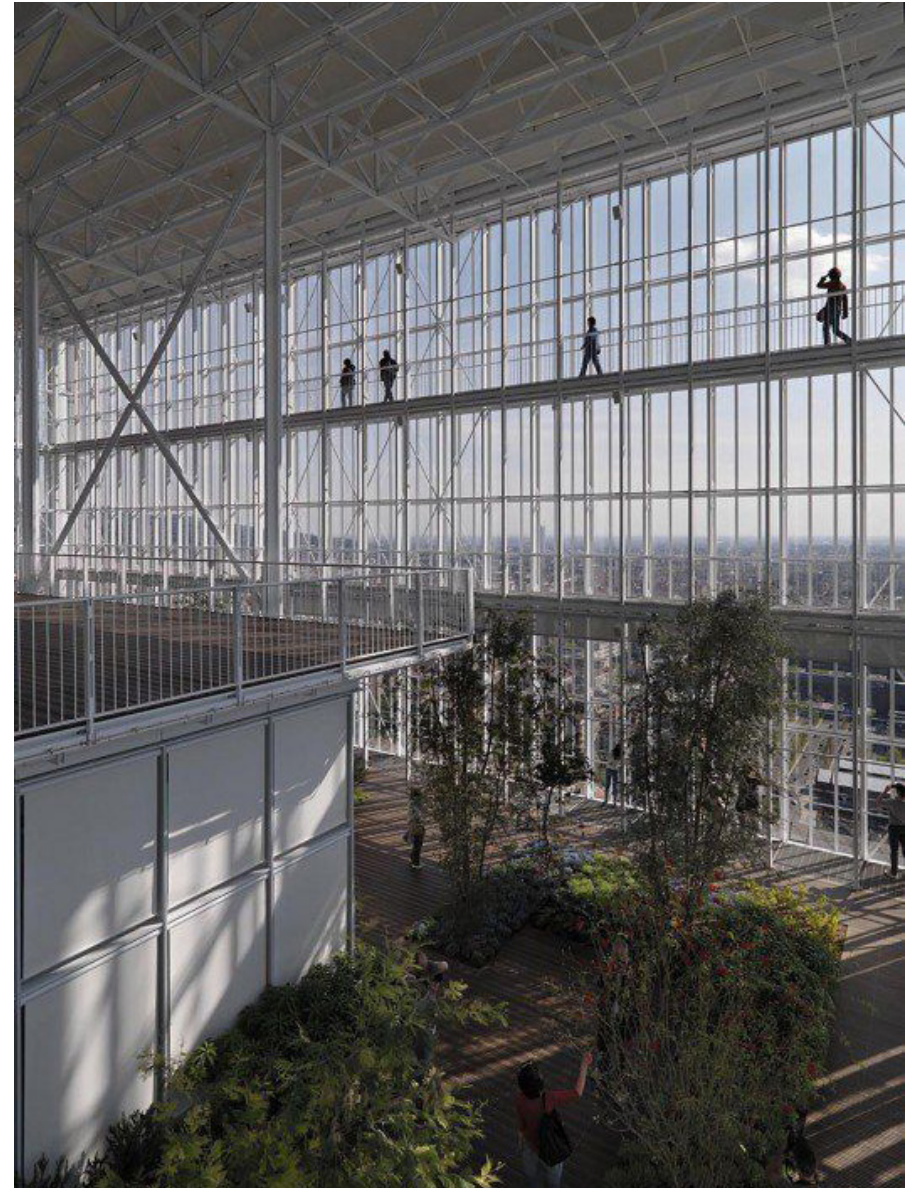
REALLY FEEL AND SEE THE STEEL AND ITS CONNECTIONS



<https://www.carmodygroarke.com/hill-house/>

Concept

SOFT GREEN IMPLEMENTATION OF THE PARK TO CREATE GRADIENT



Intesa Sanpaolo Office Building / Renzo Piano <https://www.archdaily.com/630496/intesa-sanpaolo-office-building-renzo-piano>

Concept
ATMOSPHERE REFERENCE

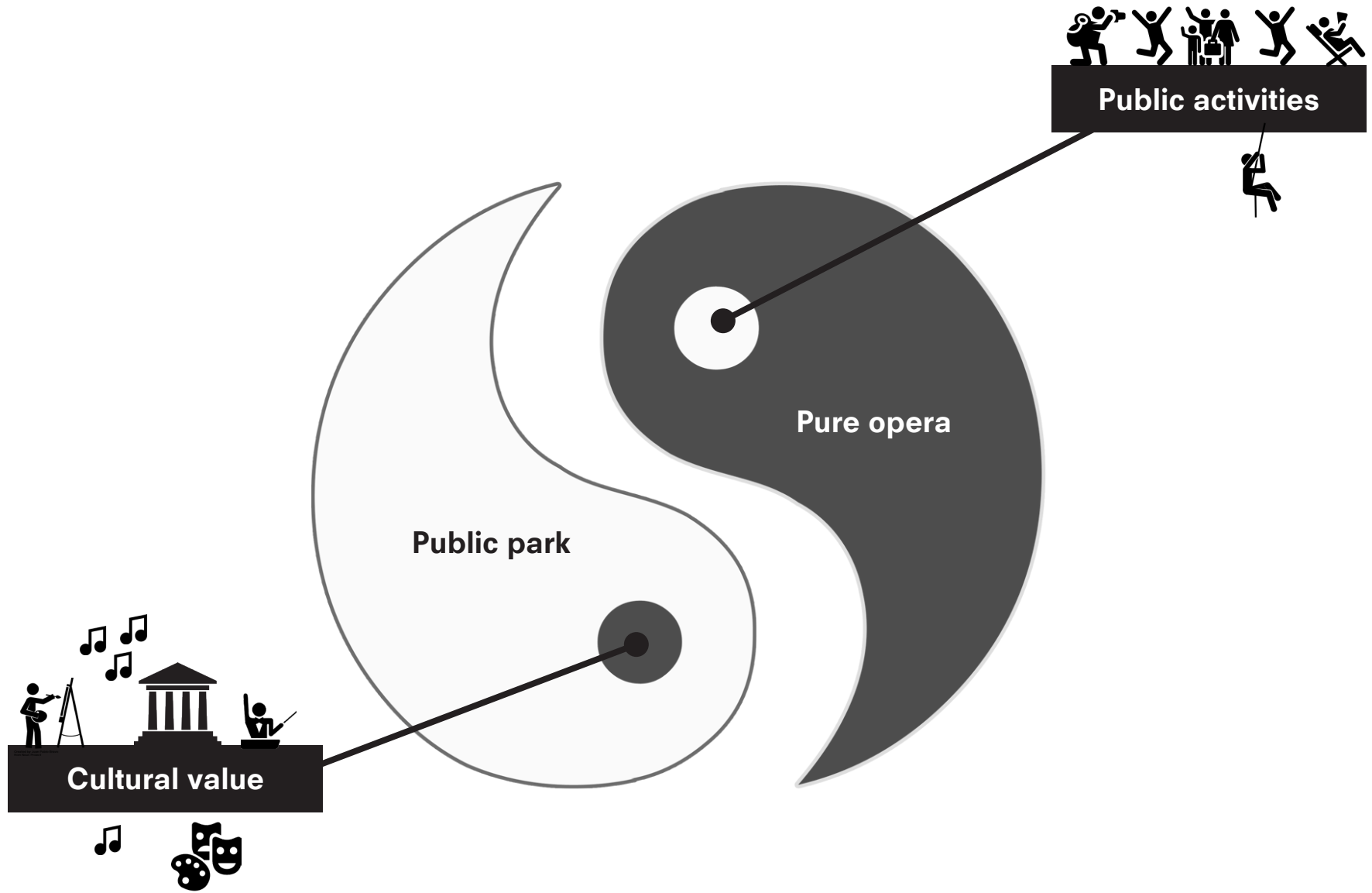


MFO park Switzerland <https://archidose.blogspot.com/2007/08/mfo-park.html>

Concept
ATMOSPHERE



Concept
GOALS

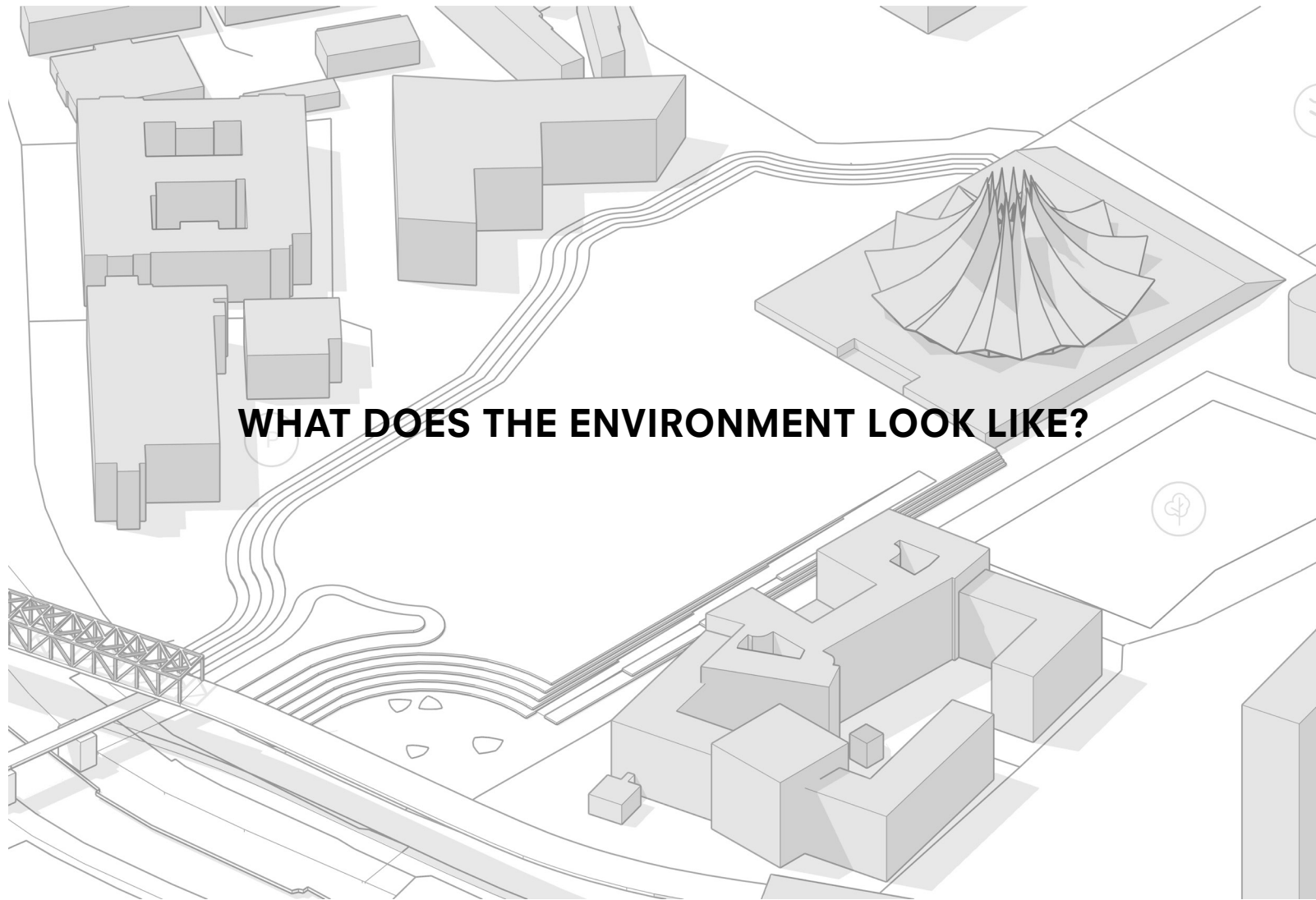


Concept
GOALS



DESIGN

Design
QUESTION

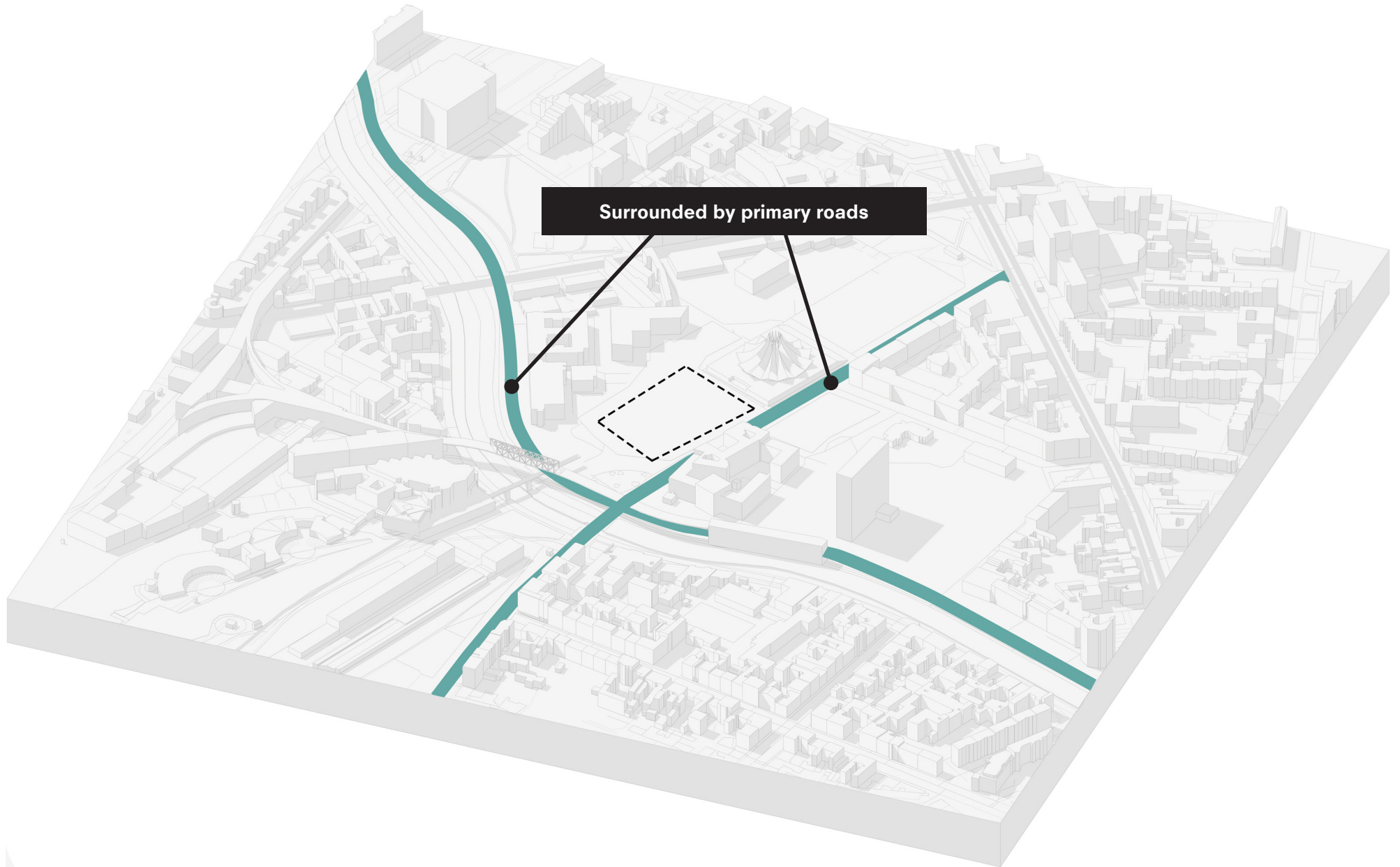


WHAT DOES THE ENVIRONMENT LOOK LIKE?

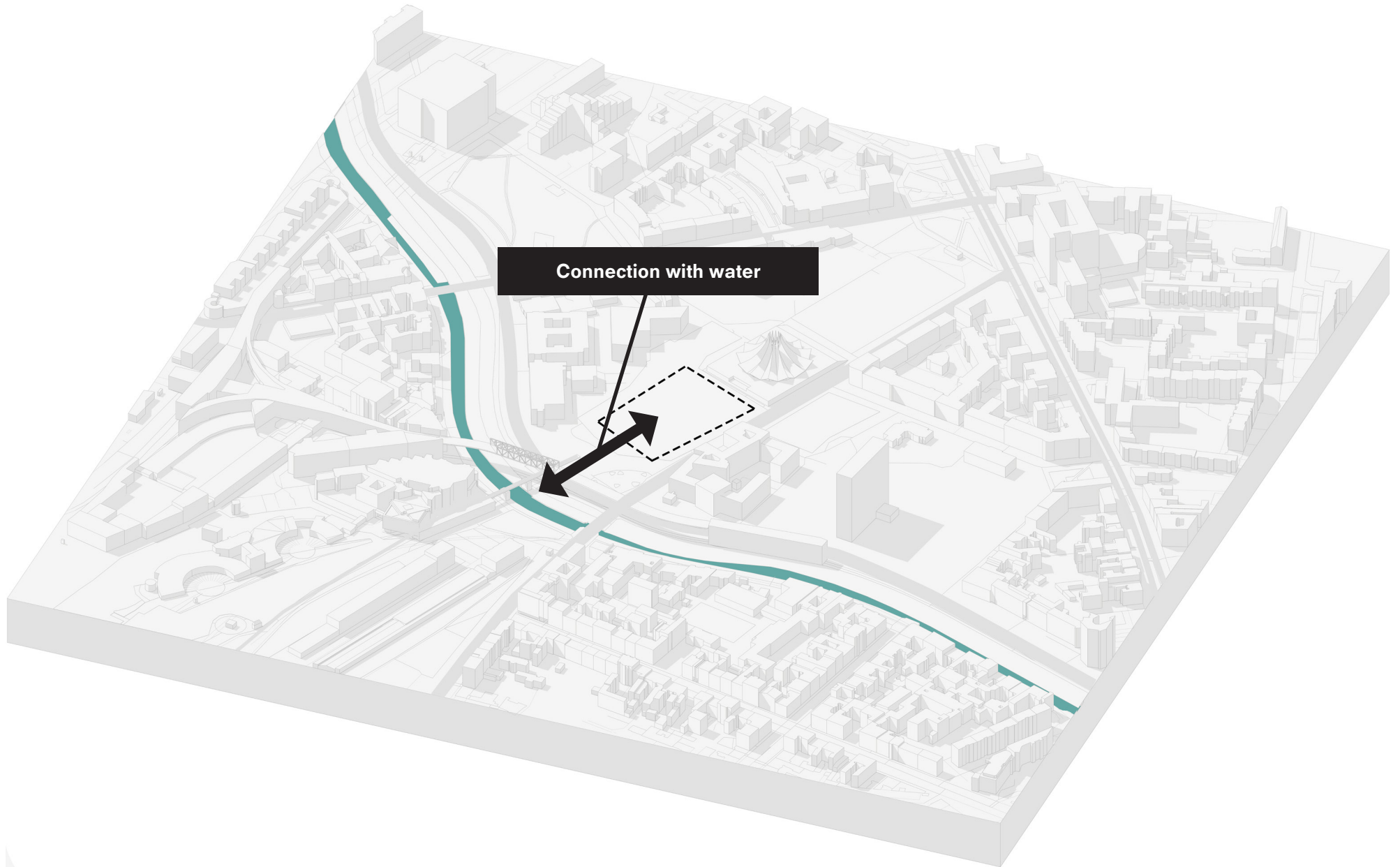
Design
URBAN CONDITIONS



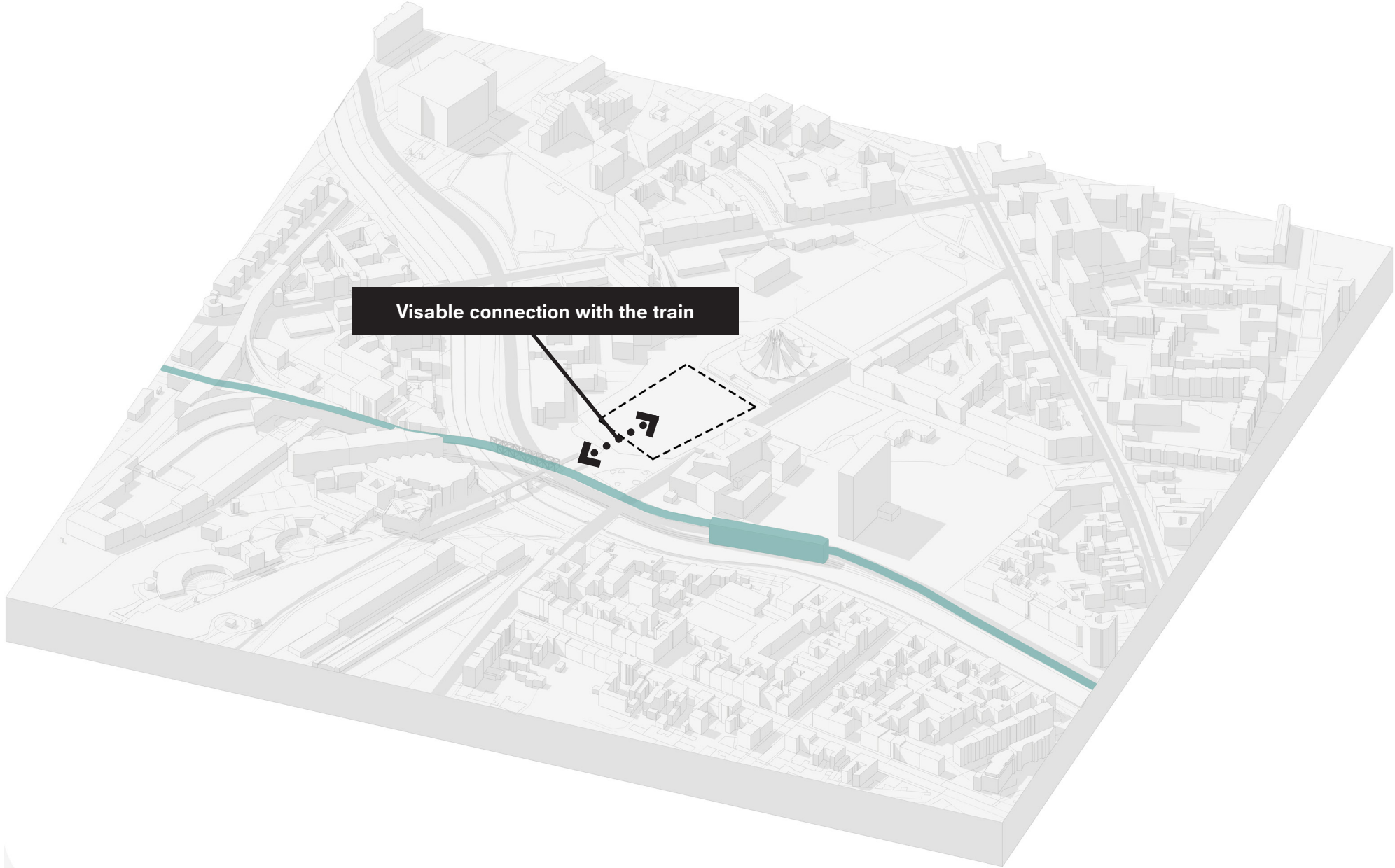
Design
MAIN ROADS



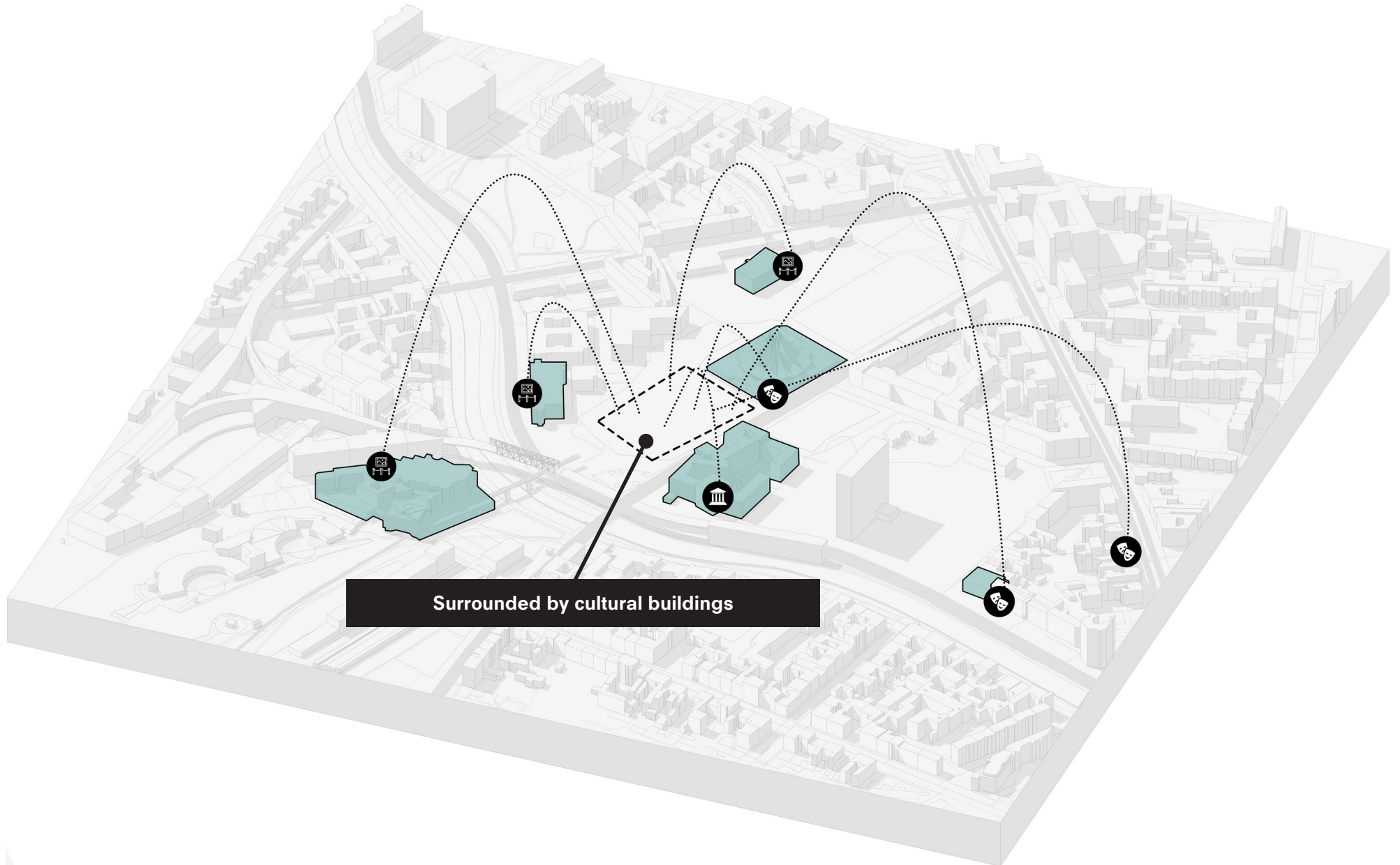
Design
WATERFRONT



Design
TRACKS

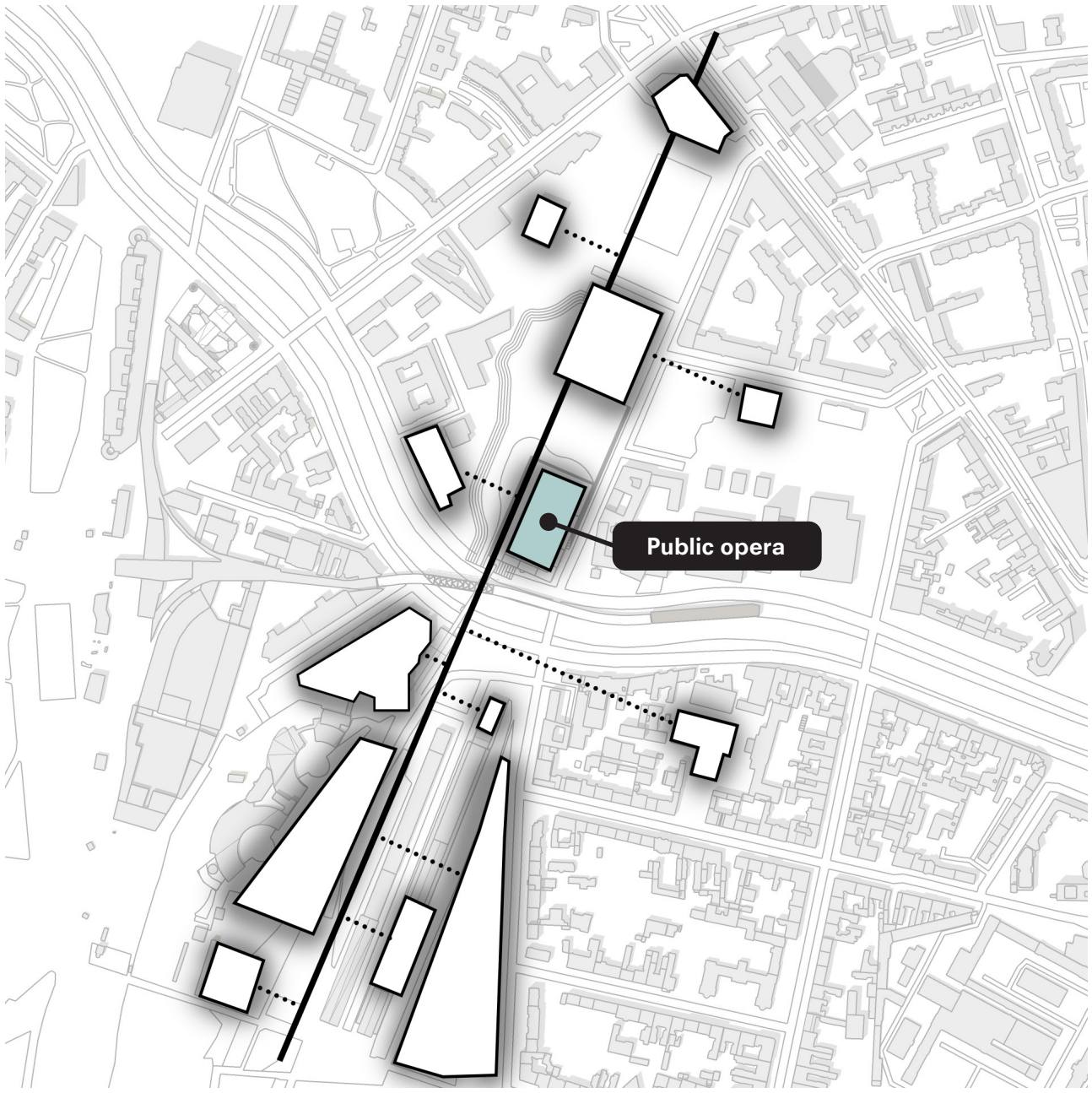


POSSIBLE CONNECTION WITH CULTURAL BUILDINGS

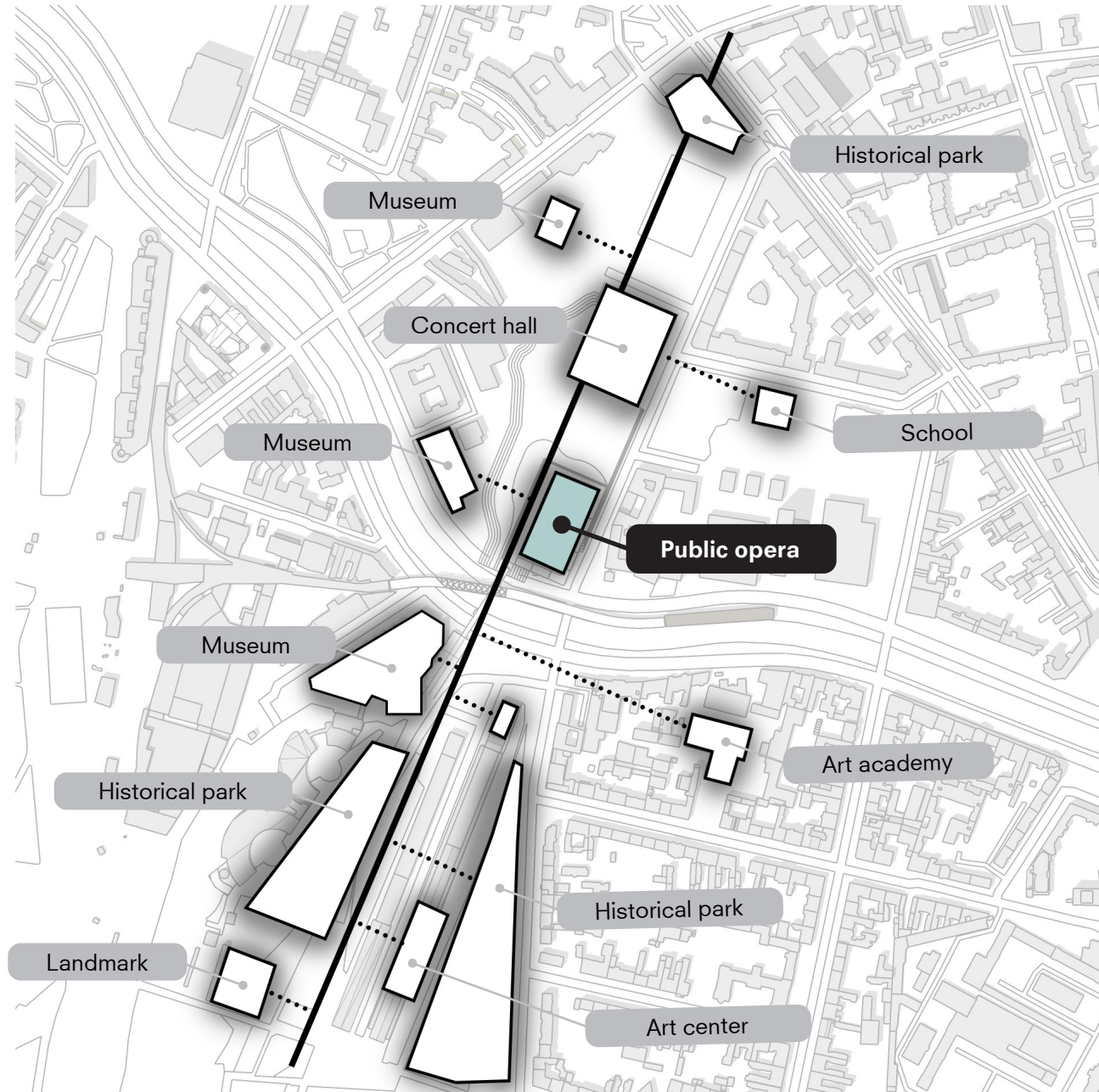


Surrounded by cultural buildings

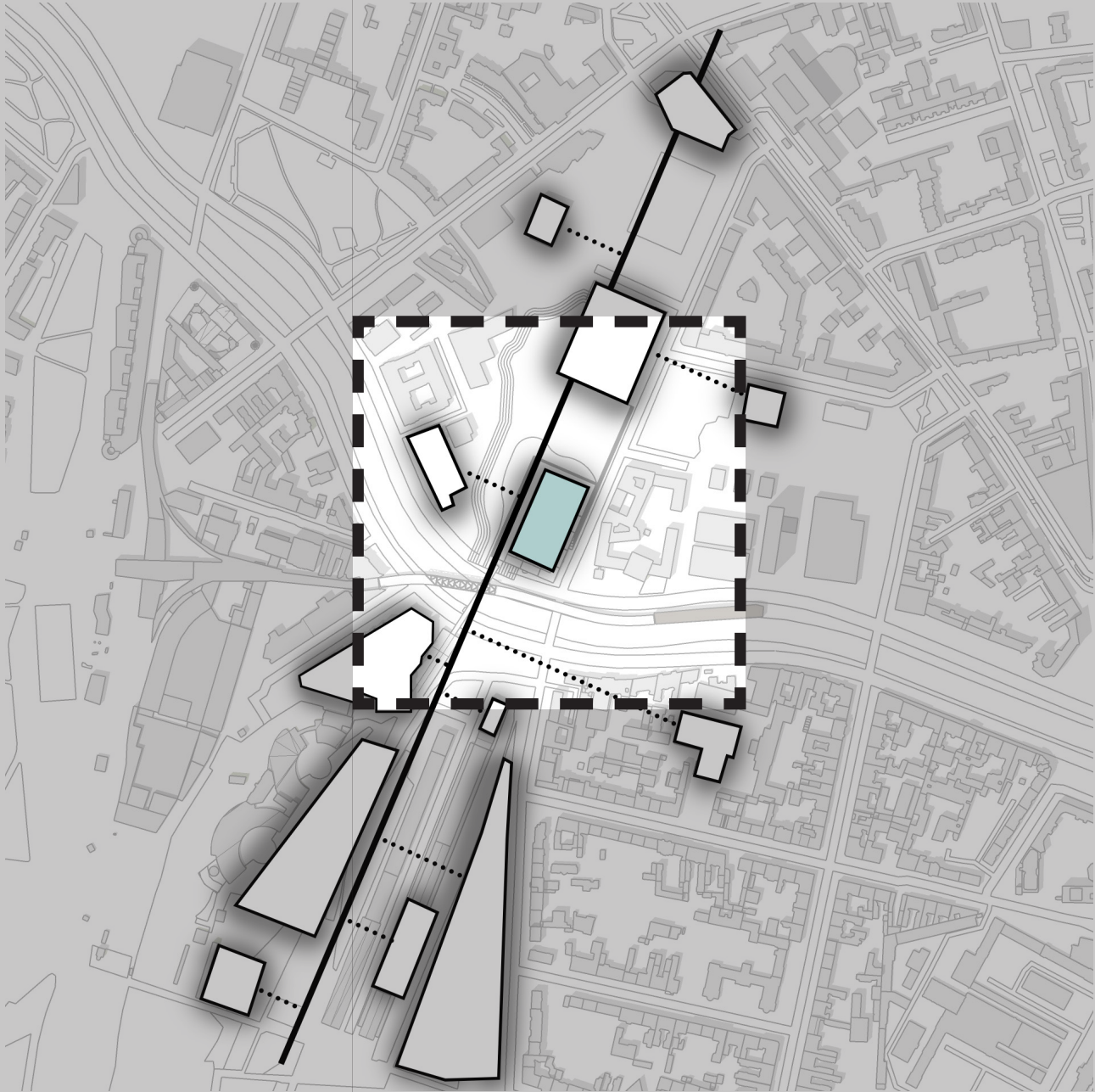
Design
CULTURAL BUILDINGS



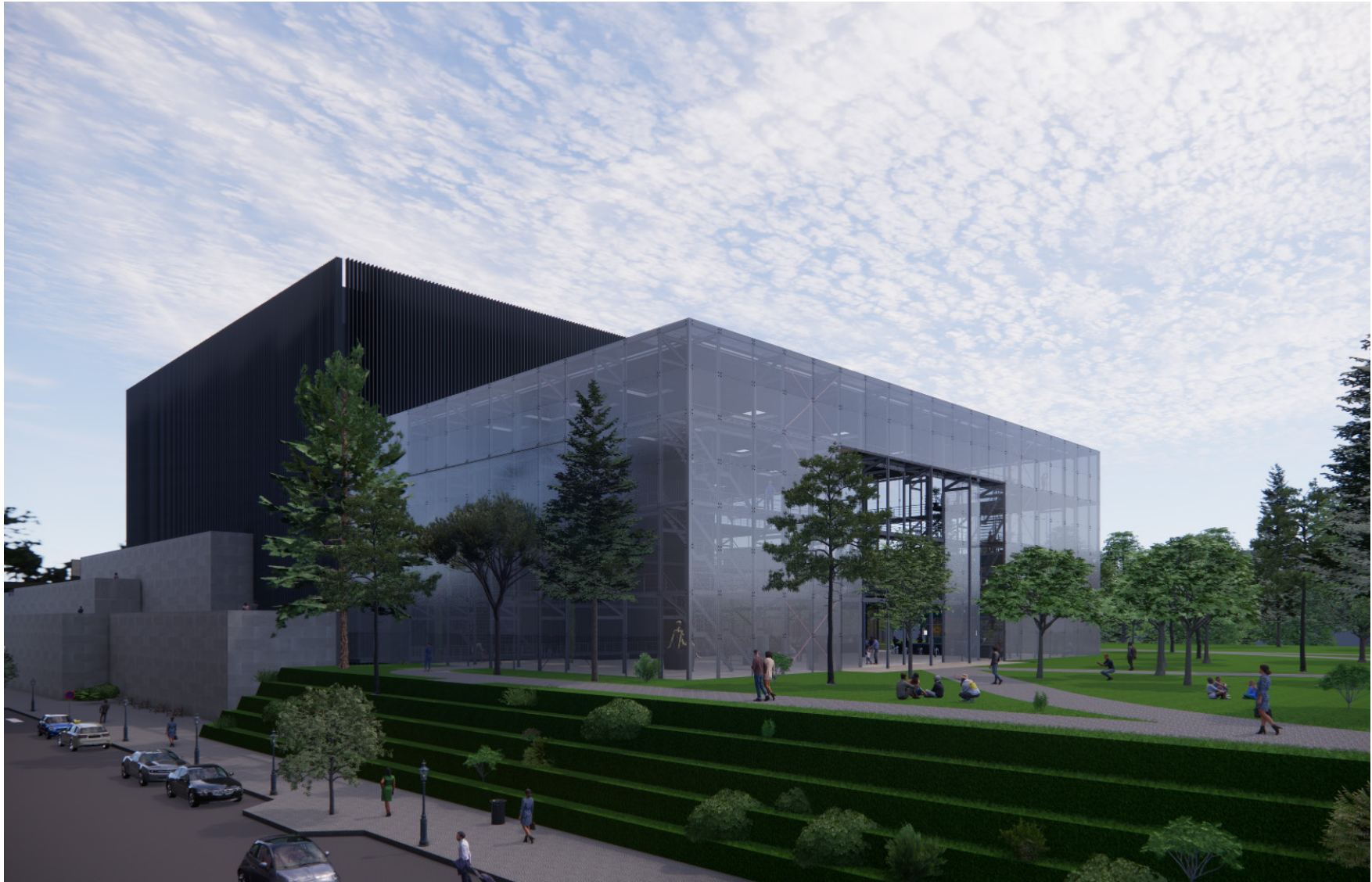
CULTURAL BUILDINGS AROUND THE AXIS



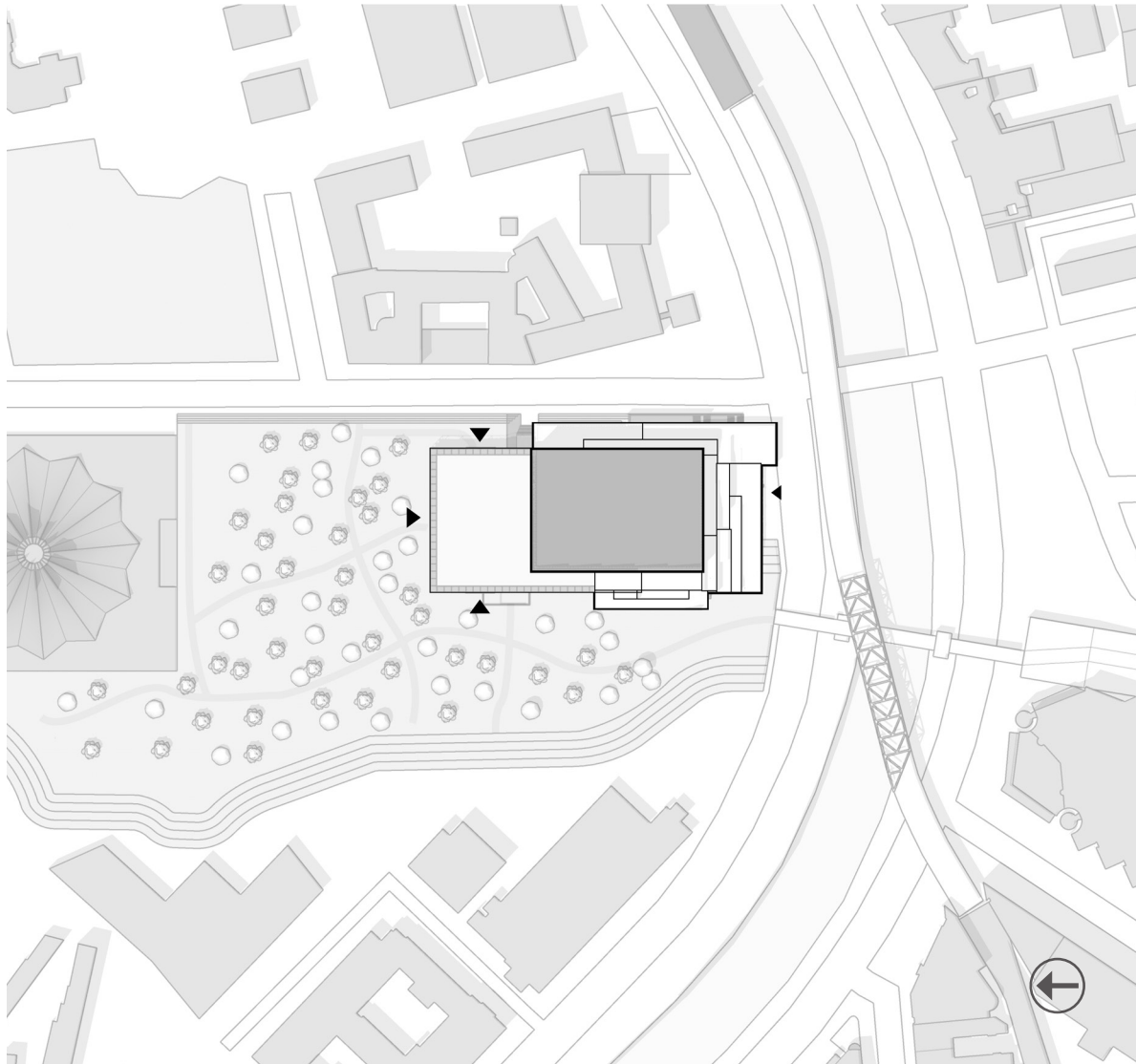
CULTURAL BUILDINGS AROUND THE AXIS



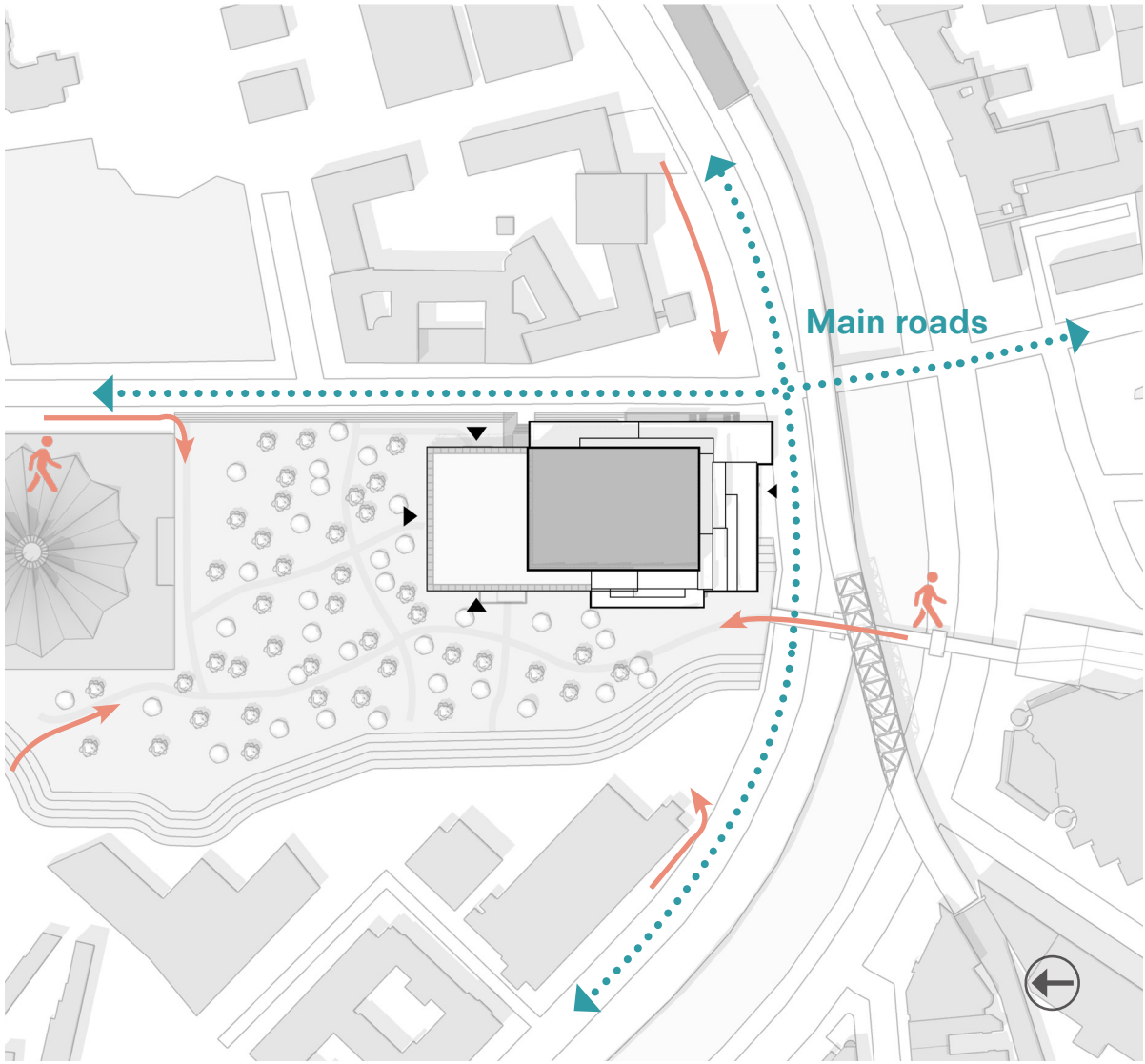
Design
THE BUILDING



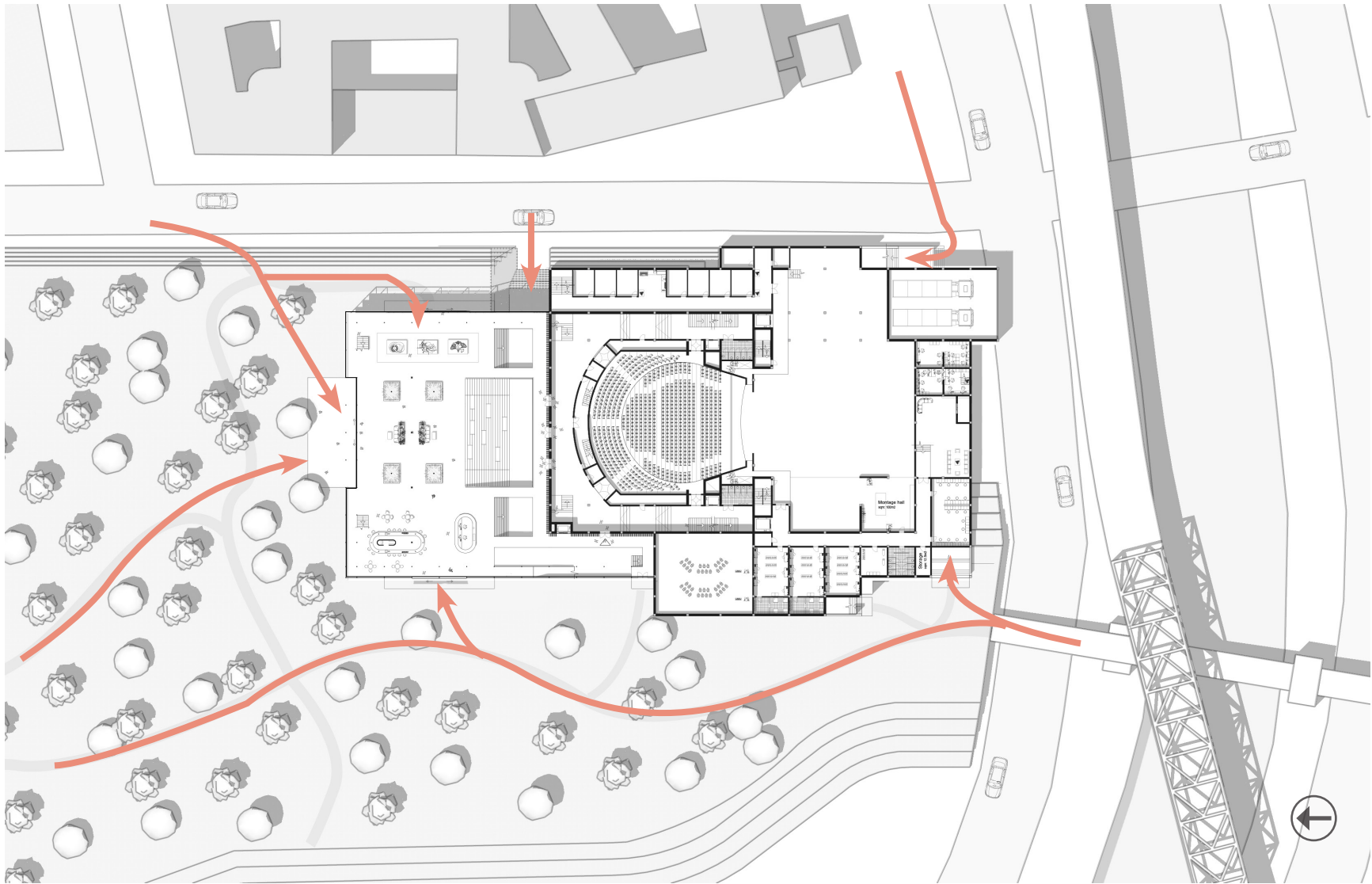
Design
TOP VIEW OPERA



Design
TOP VIEW OPERA

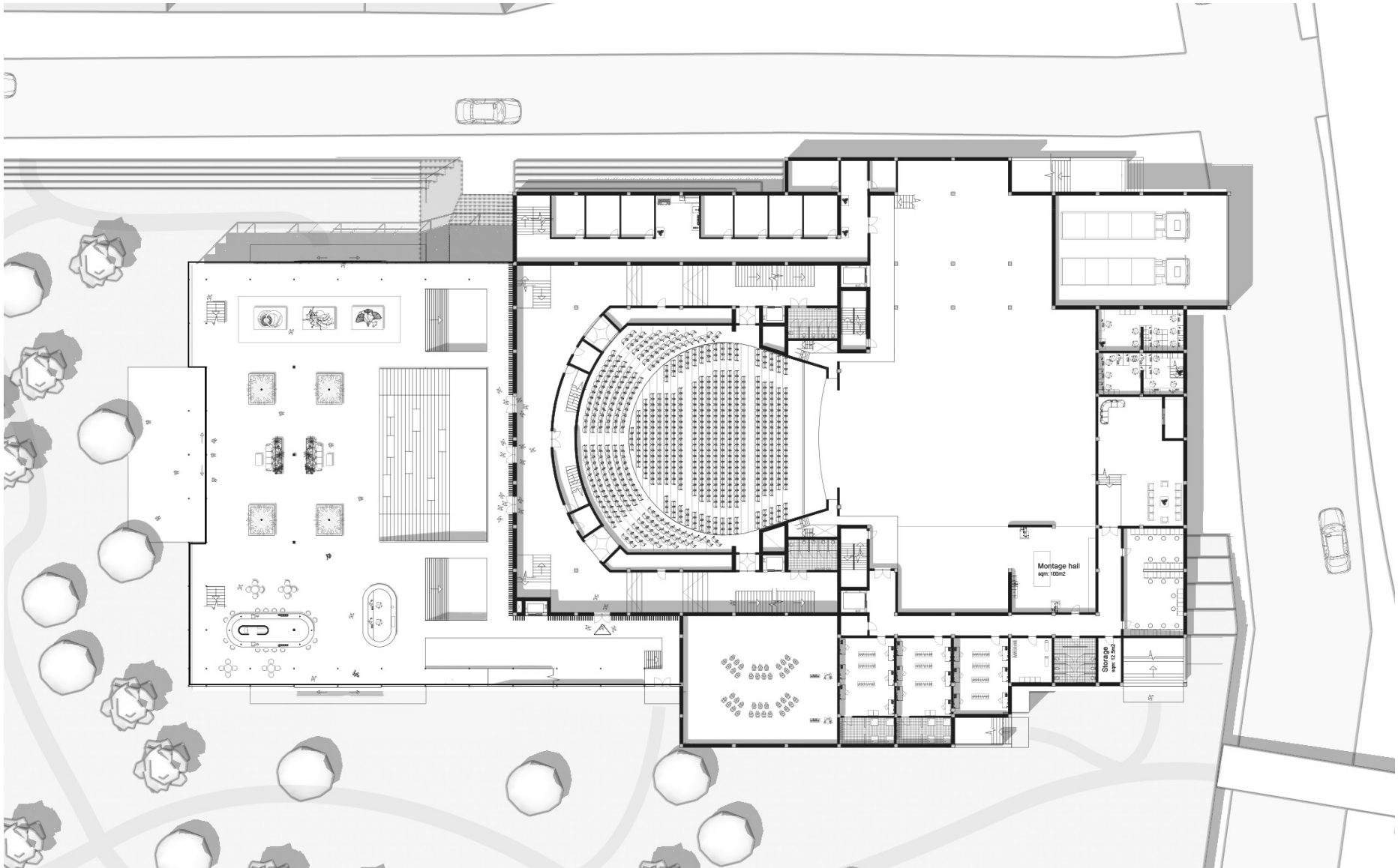


Design
BUILDING INTEGRATED IN CONTEXT

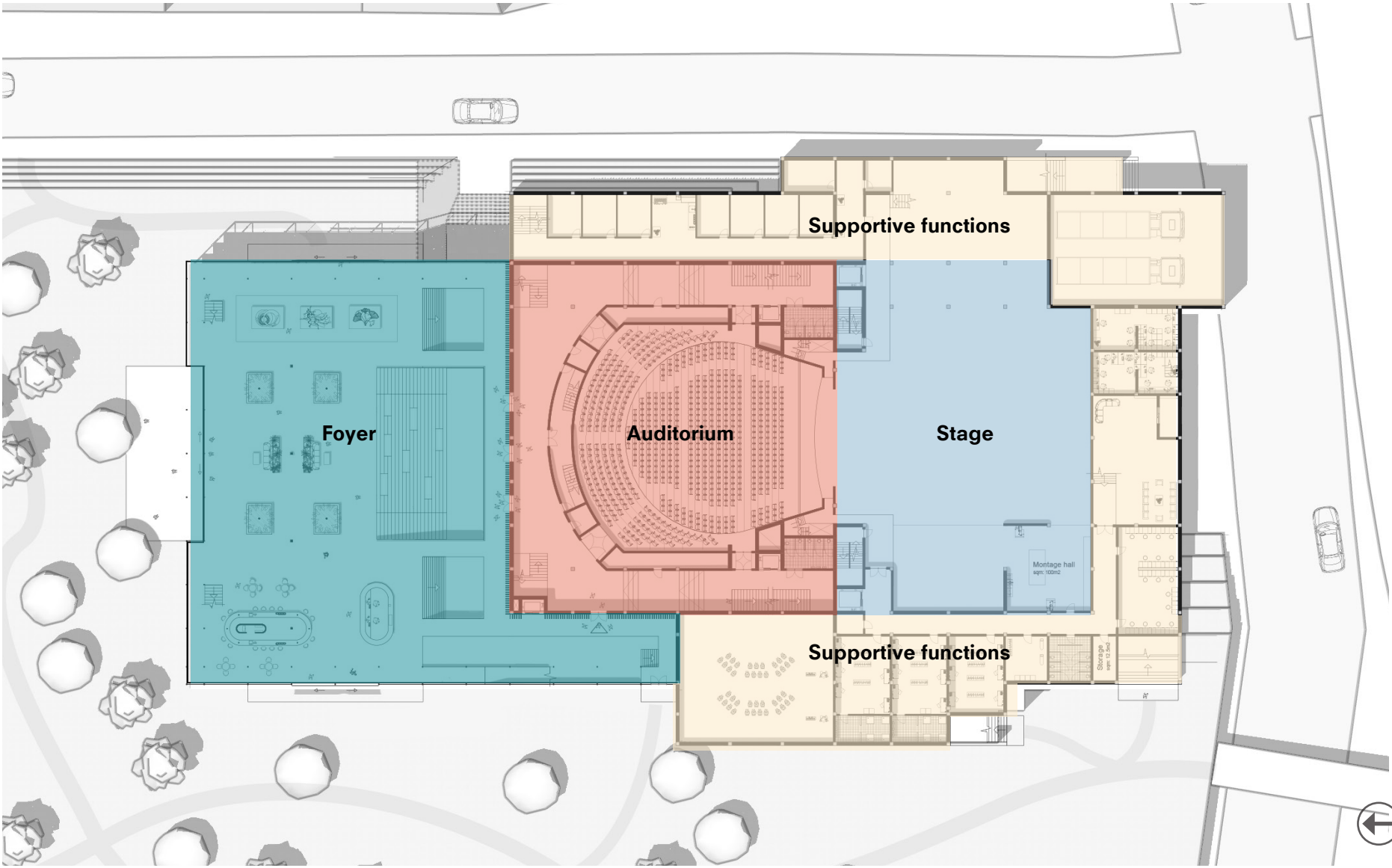


Design

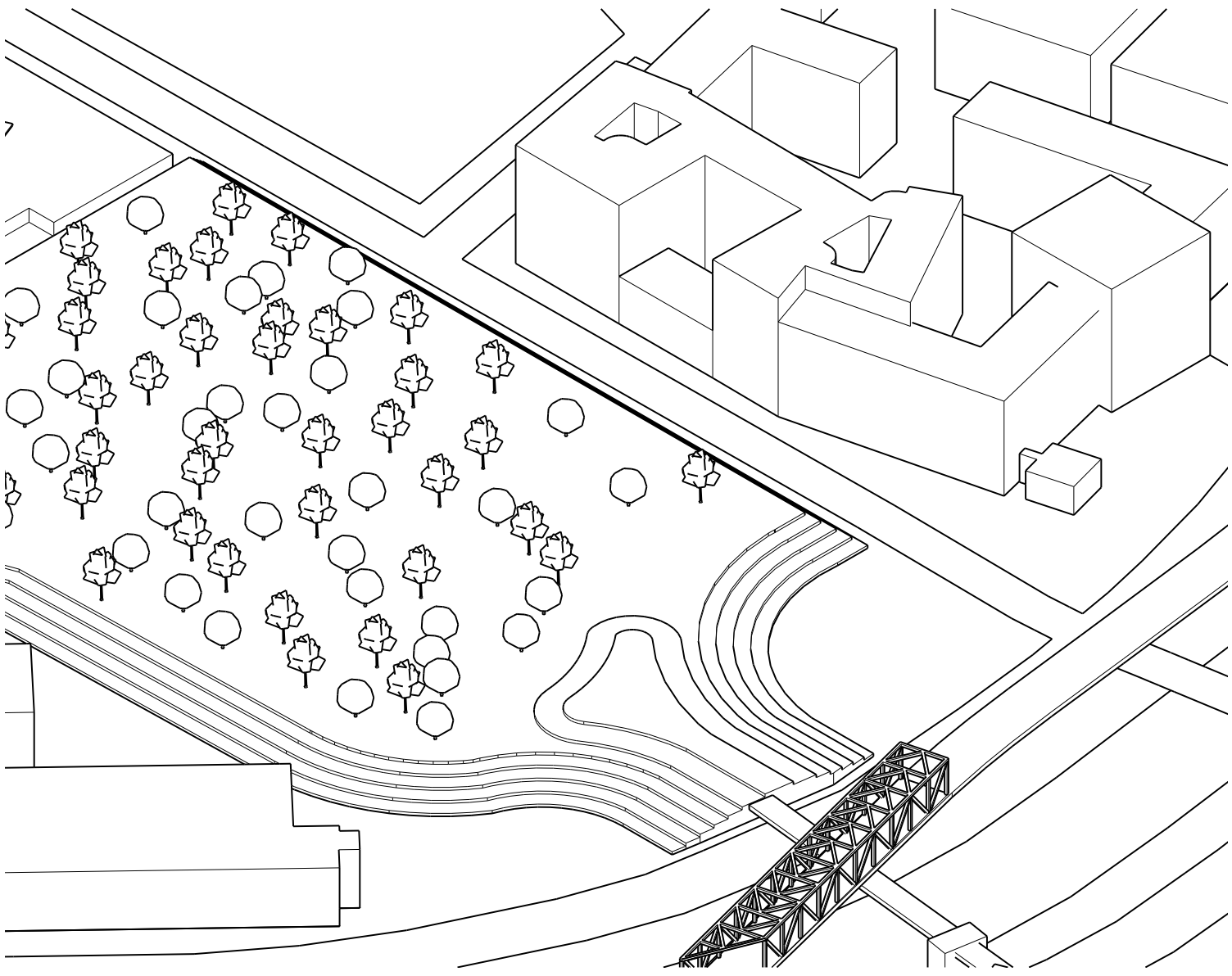
HOW DOES THE BUILDING WORK?



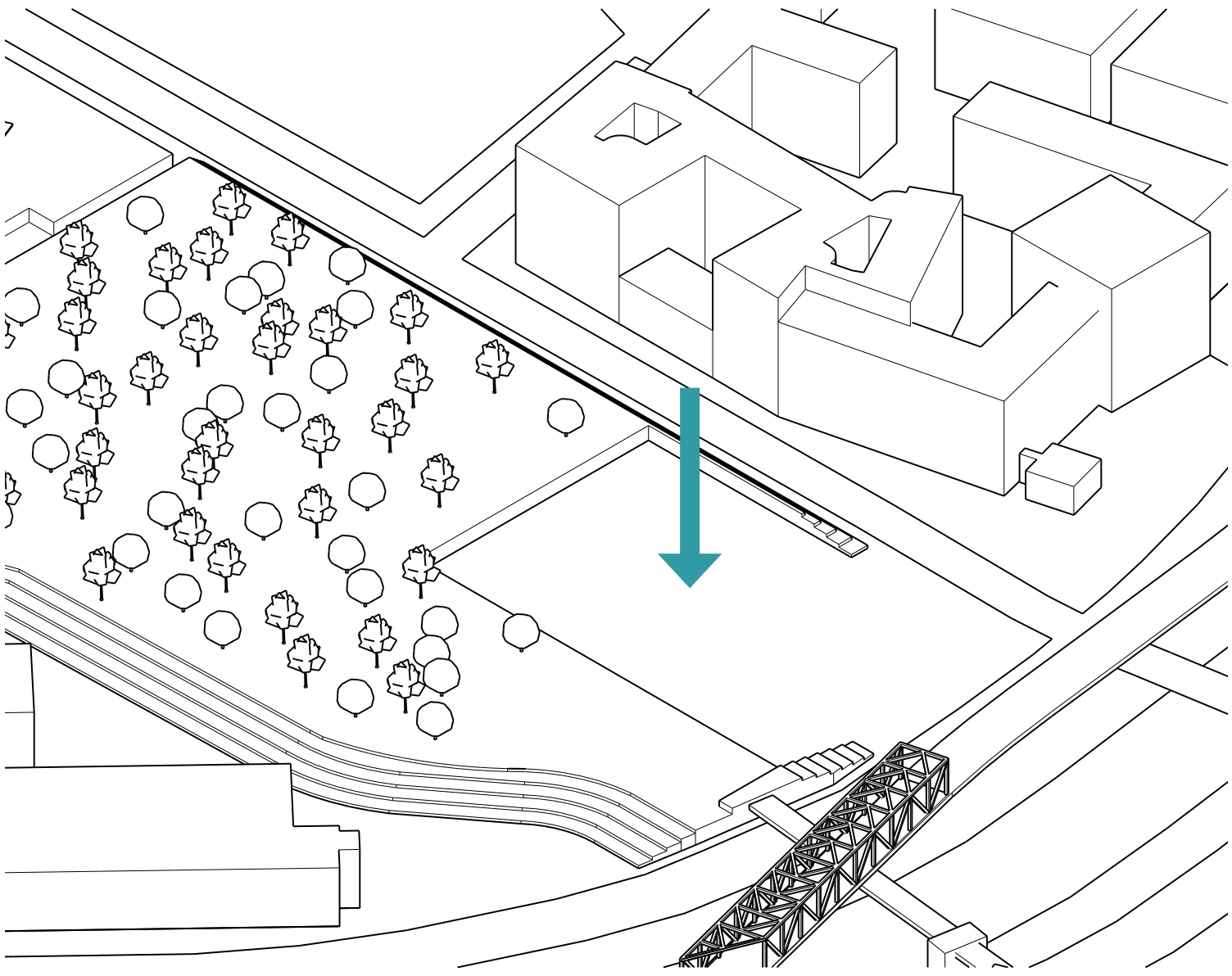
Design
HOW THE FUNCTIONS ARE PLACED



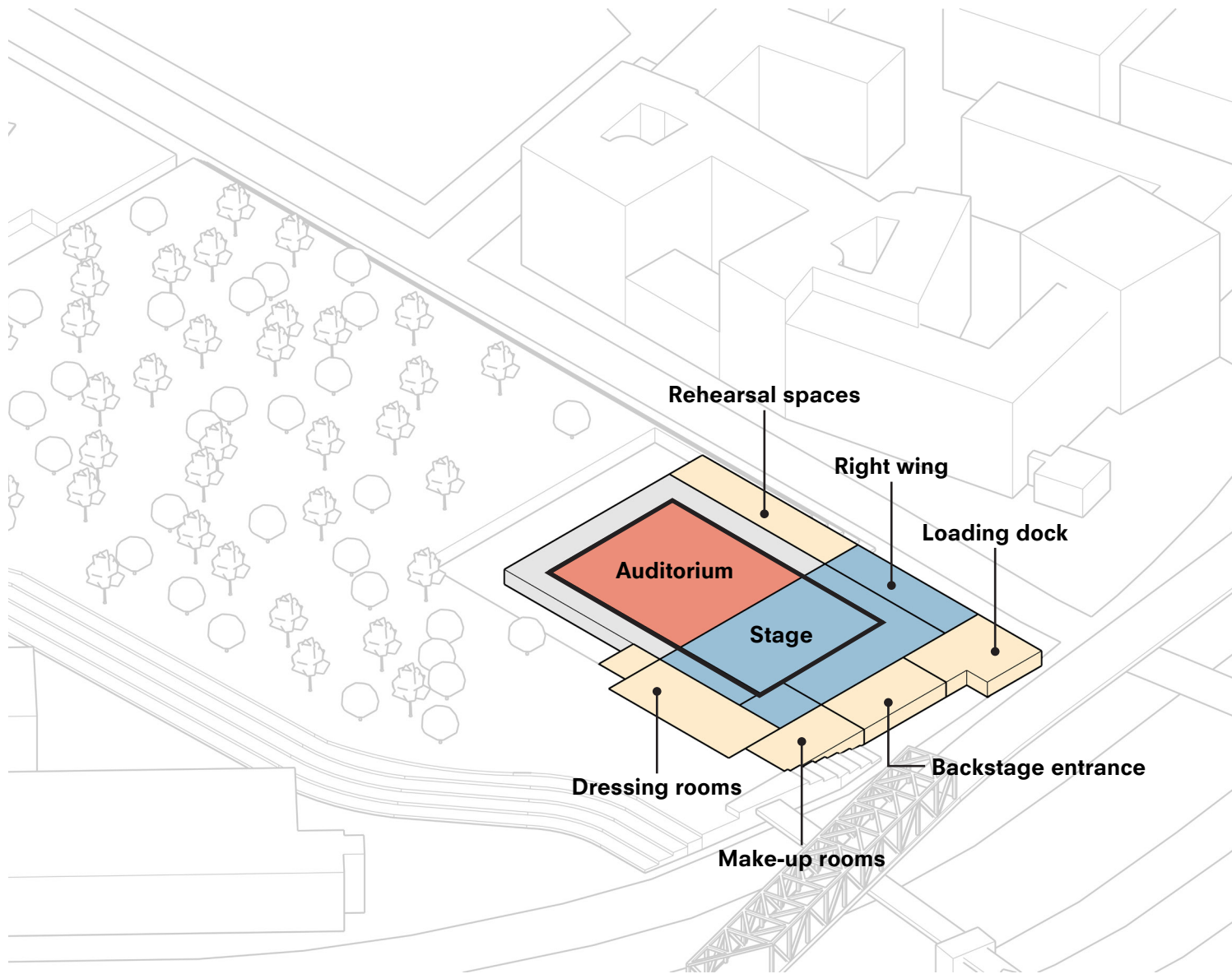
Design
ISOMETRIC VIEW



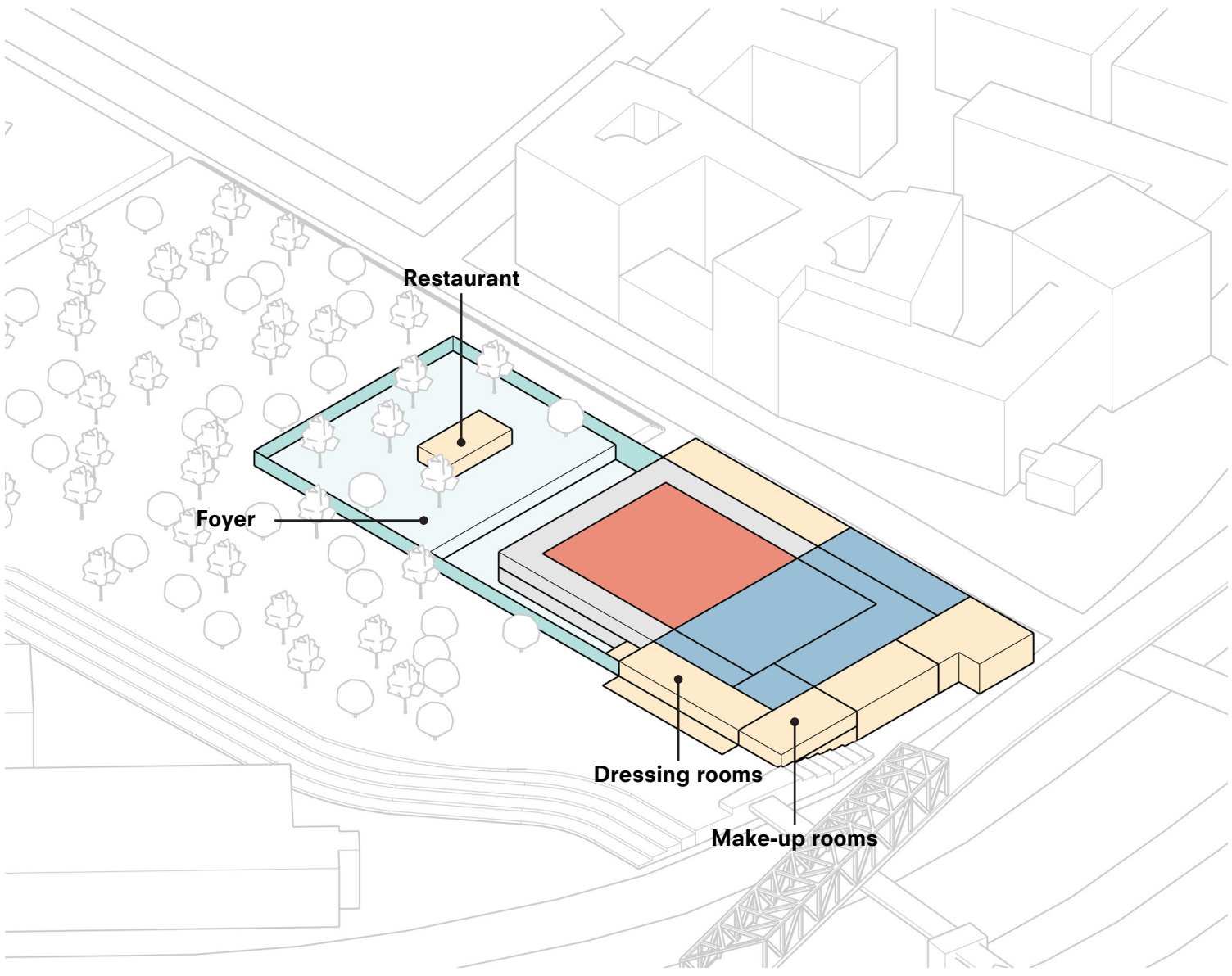
Design
ISOMETRIC VIEW



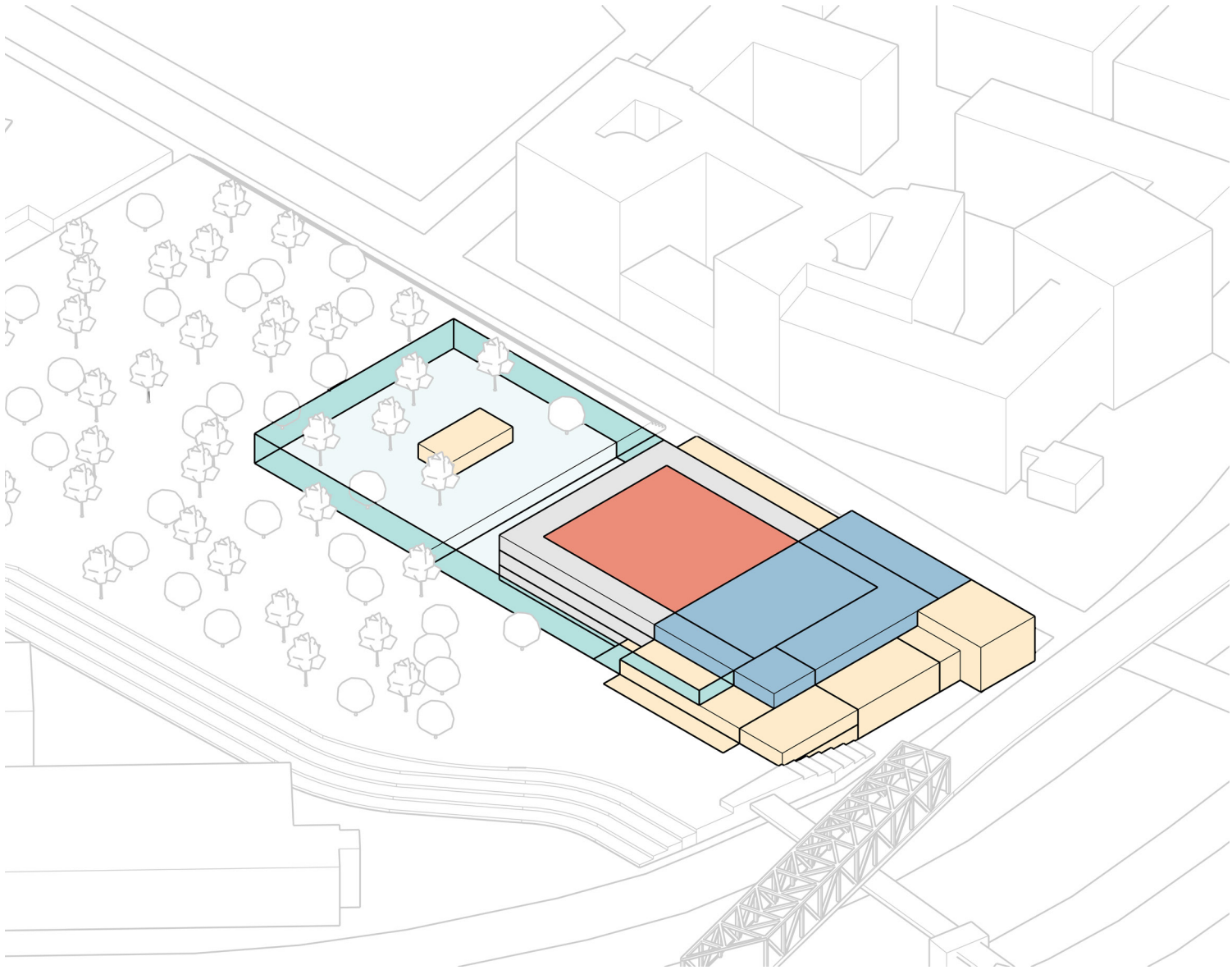
Design
ISOMETRIC VIEW



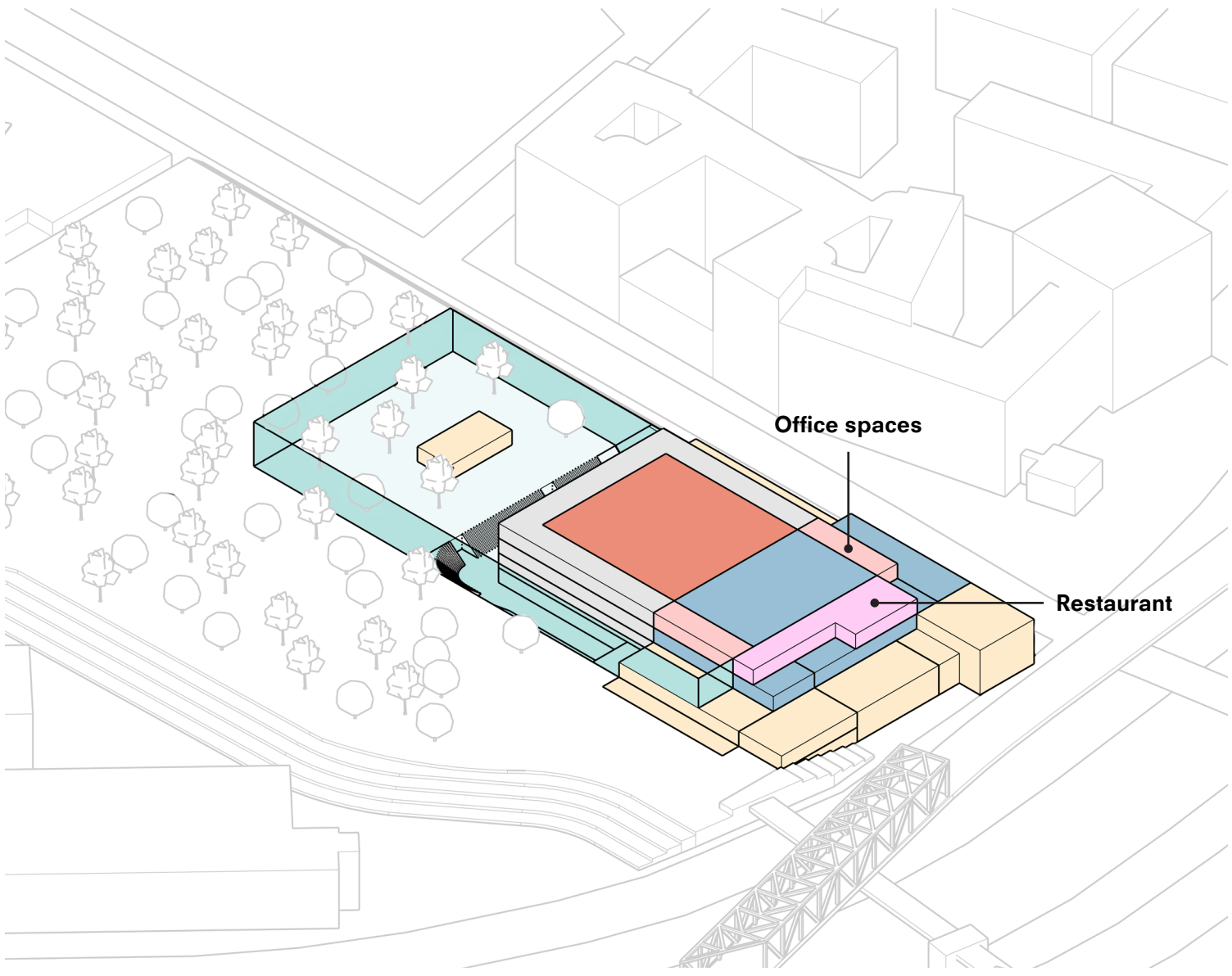
Design
ISOMETRIC VIEW



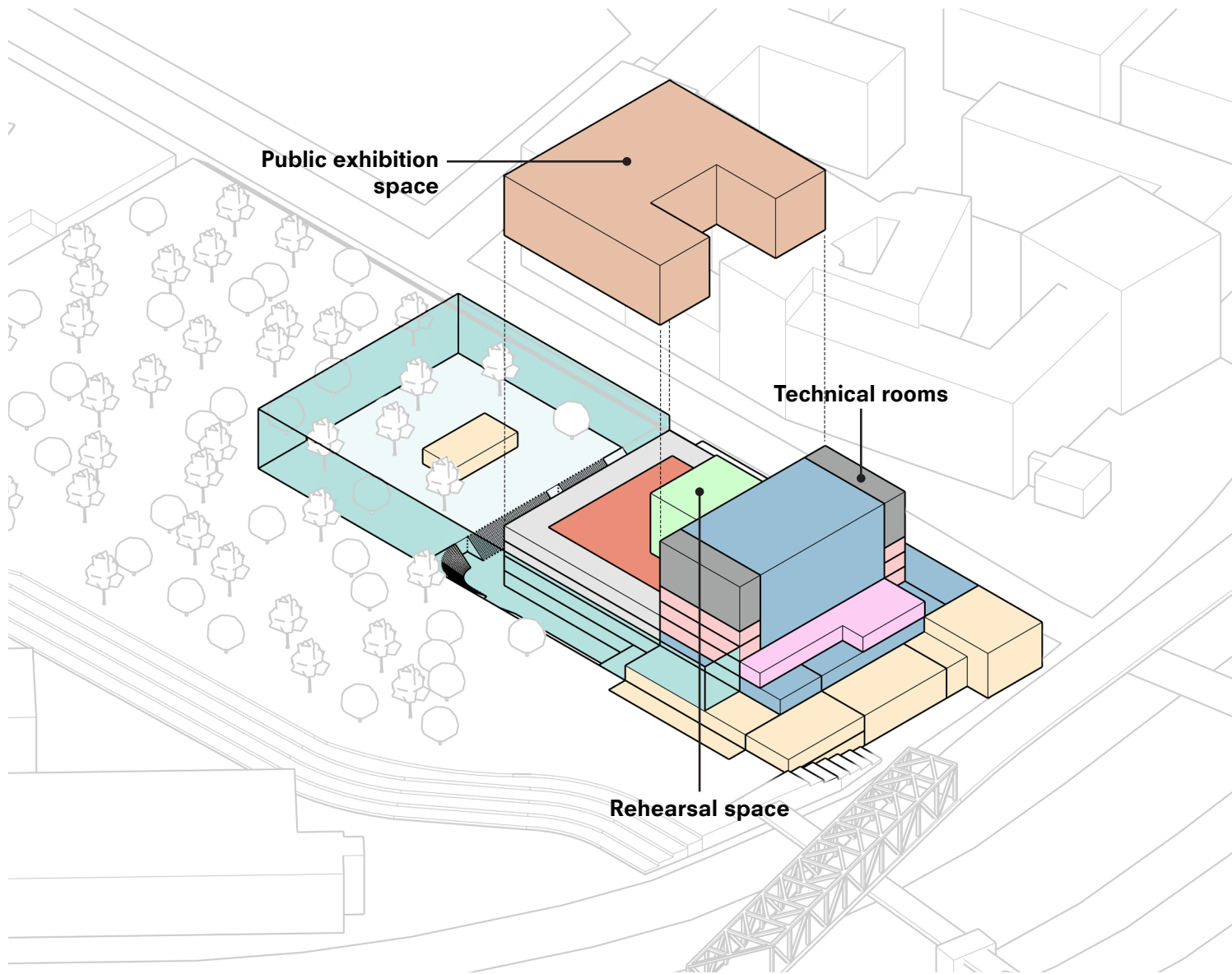
Design
ISOMETRIC VIEW



Design
ISOMETRIC VIEW

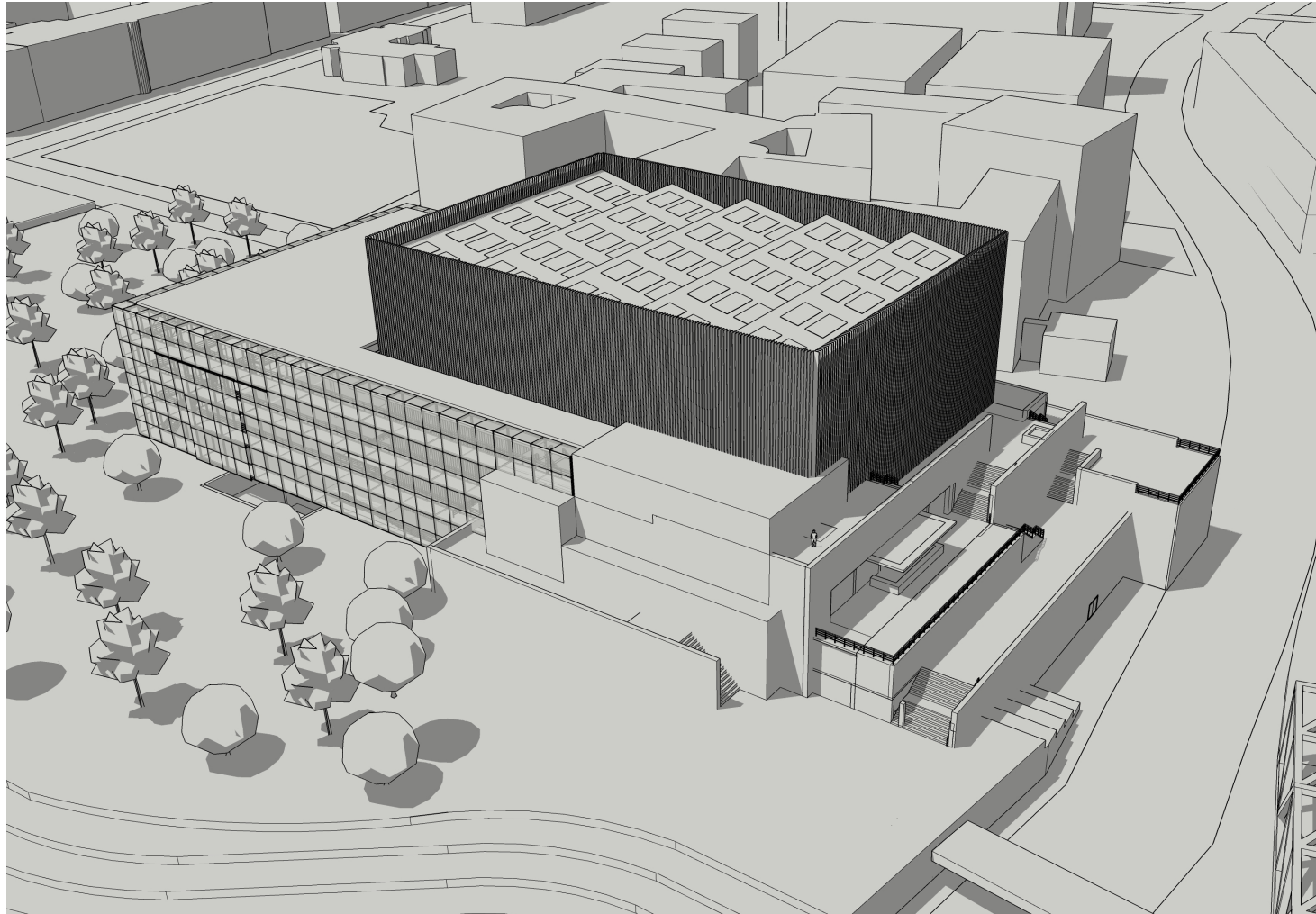


Design
ISOMETRIC VIEW

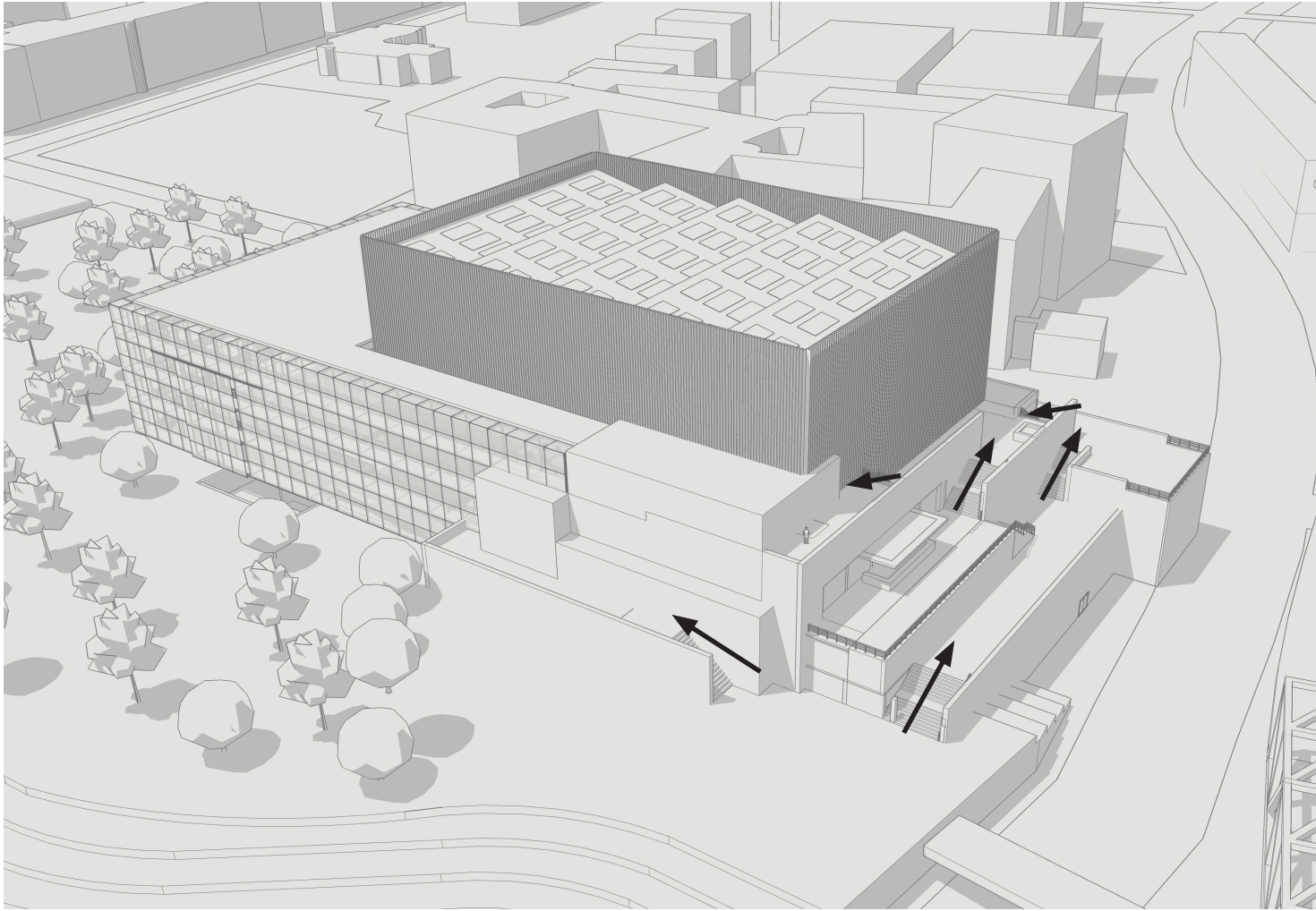


Design

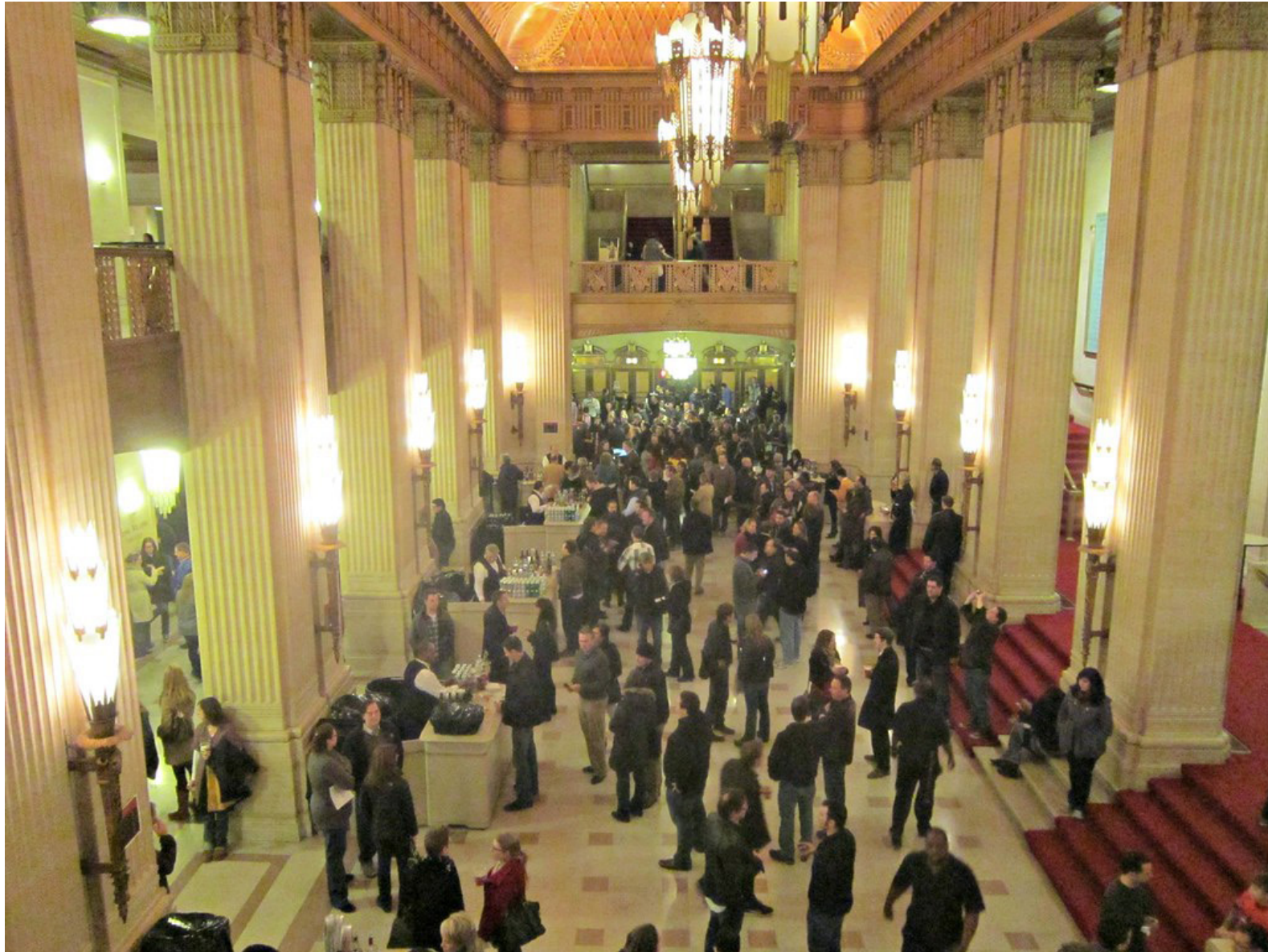
ROCK LANDSCAPE AT THE BACK



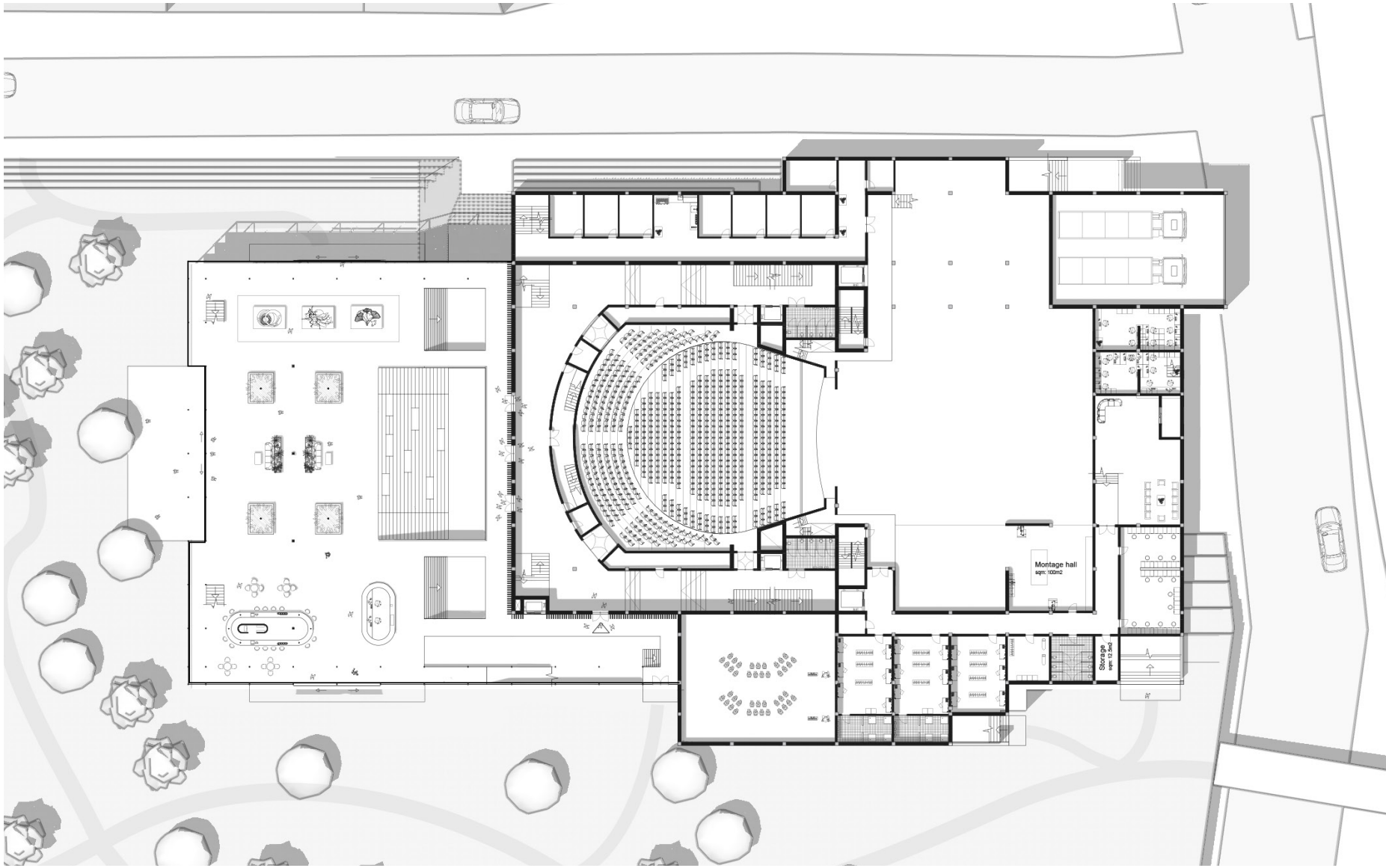
Design
ROCKS AT THE BACK



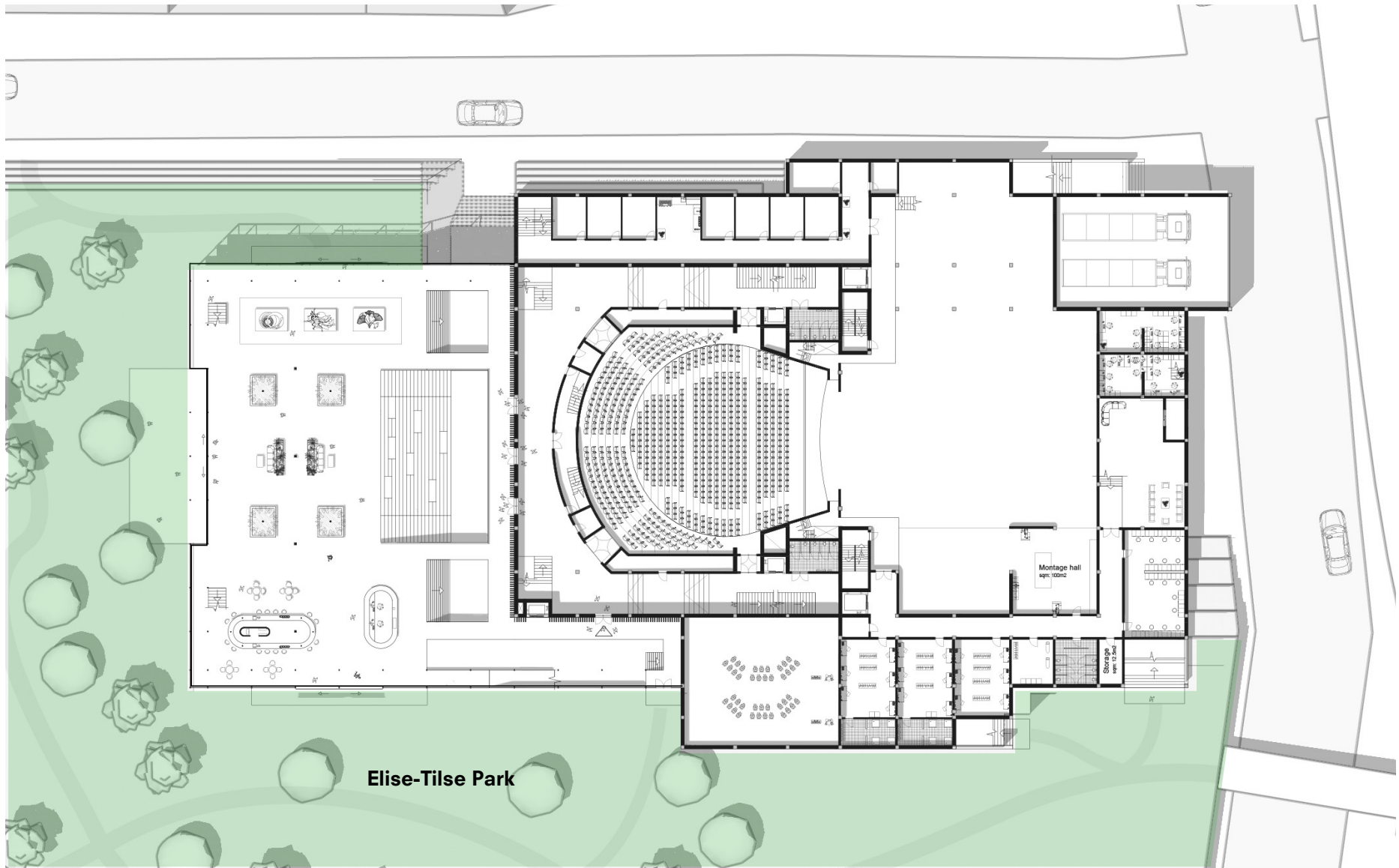
Design
OPERA EXPERIENCE ROUTE



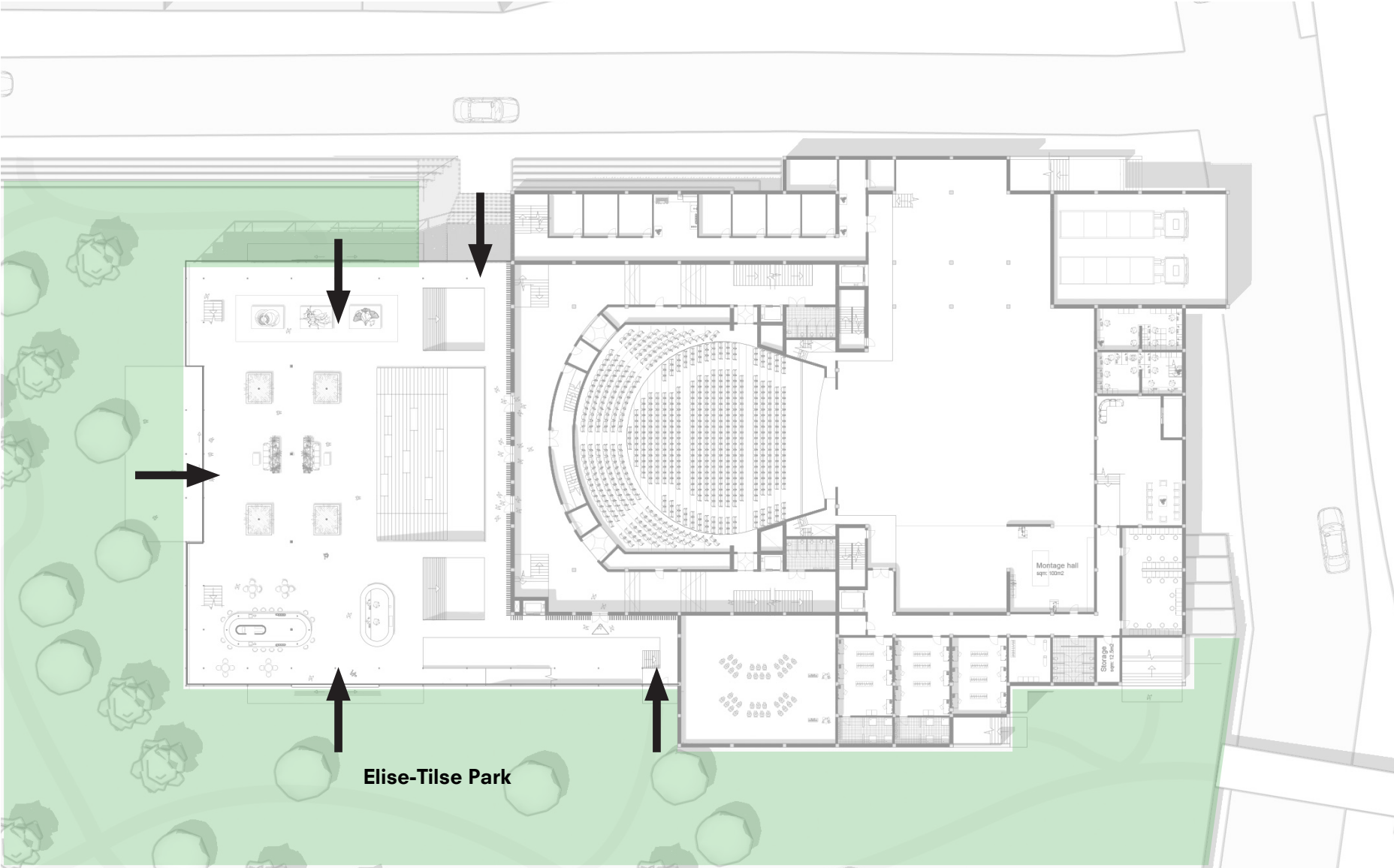
Design
DURING OPERA PERFORMANCE



Design
ENTERING FOYER TROUGH PARK SIDE



Design
ENTRANCES FOYER TROUGH PARK SIDE

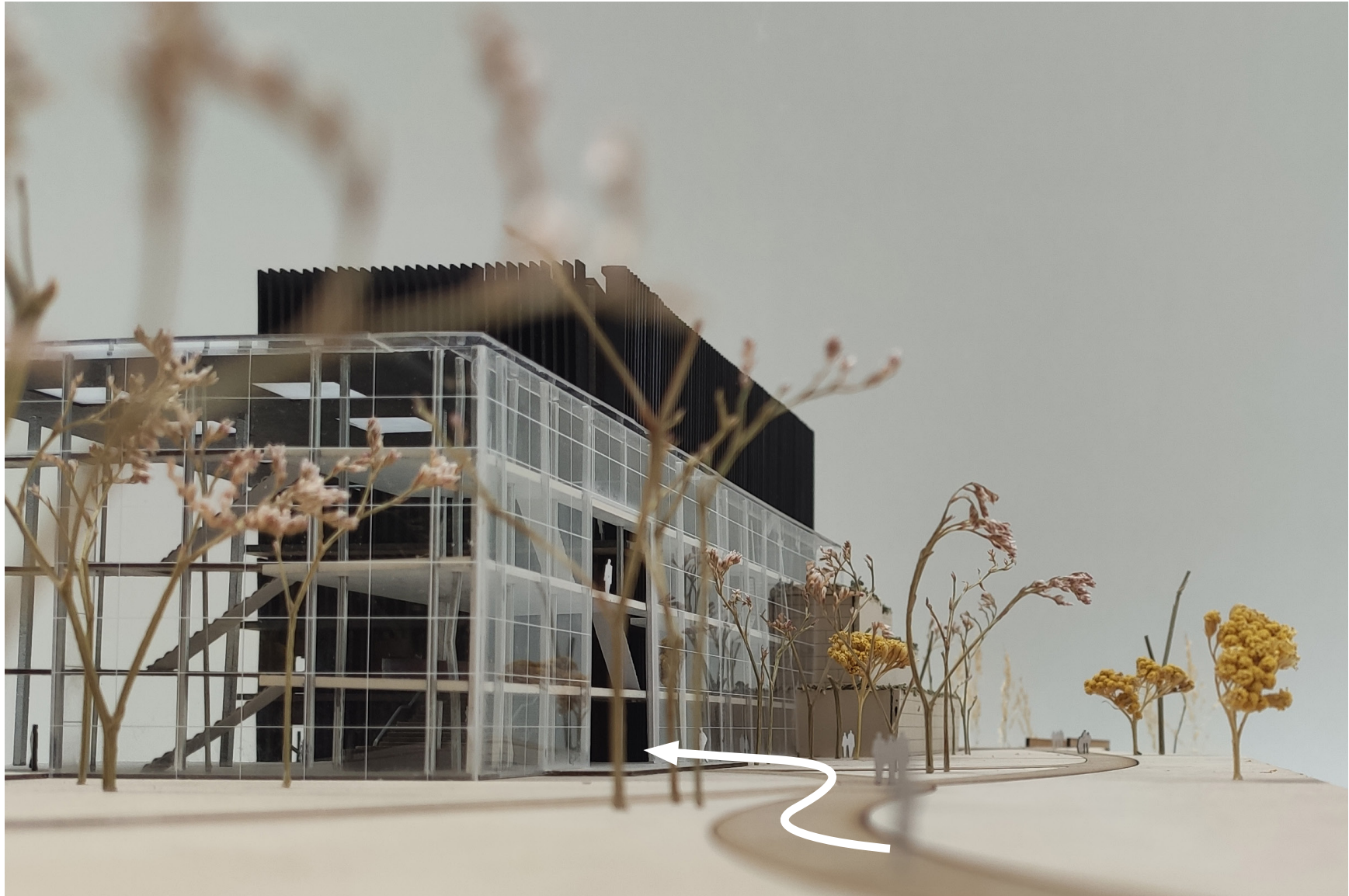


Design
ENTERANCES FOYER TROUGH PARK SIDE

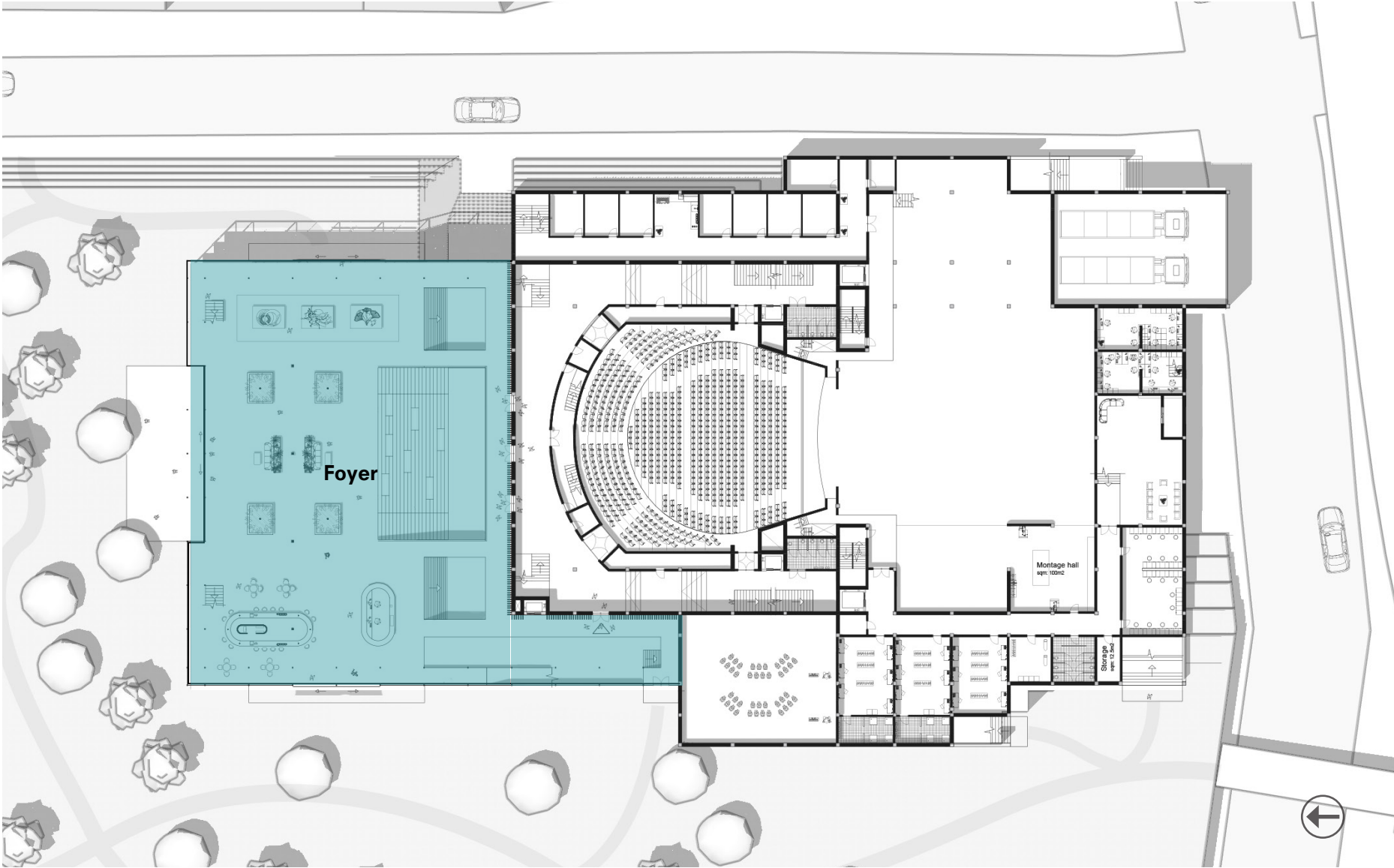


Design

PATHS LEADING TOWARDS ENTRANCES

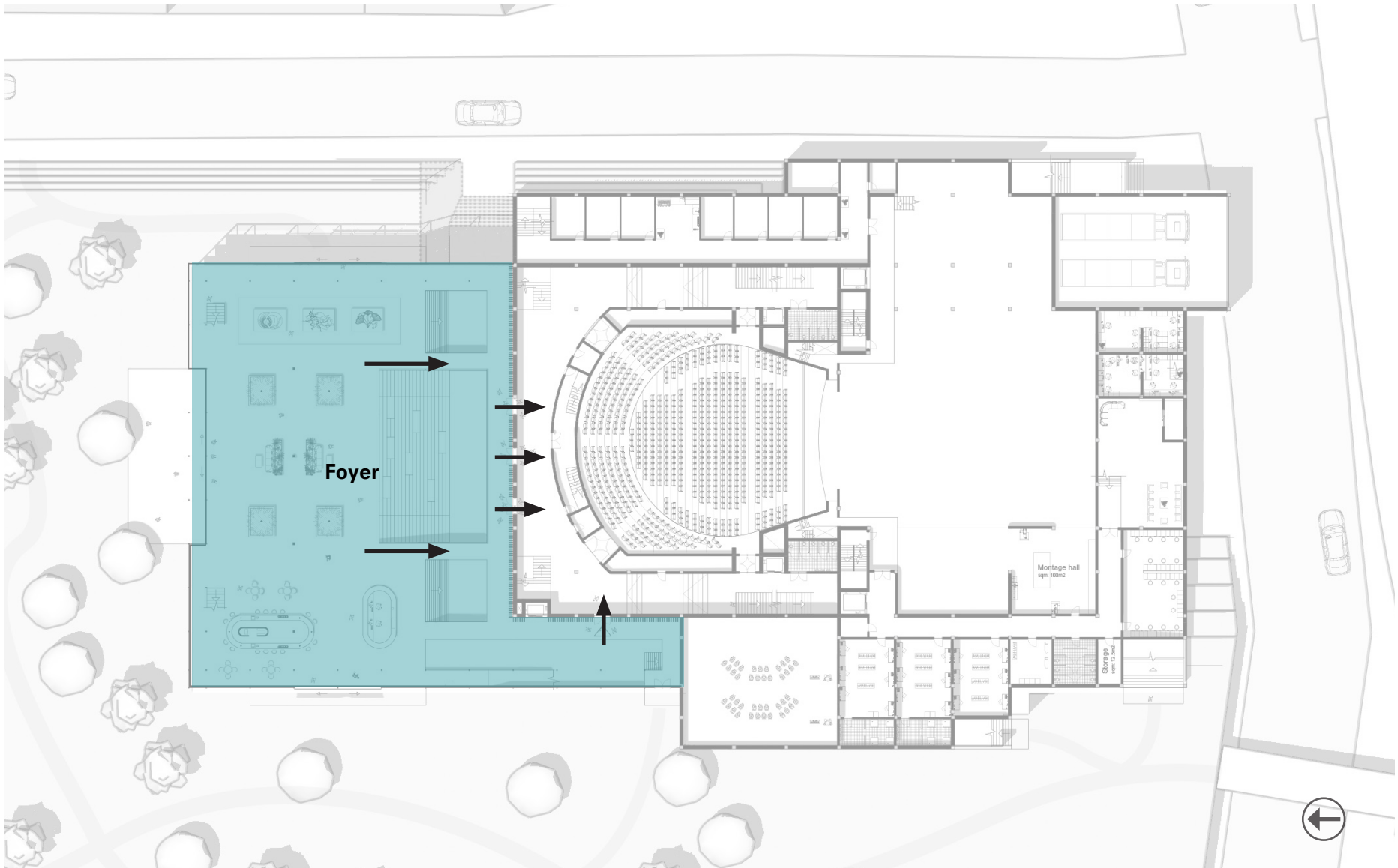


Design
FOYER



Design

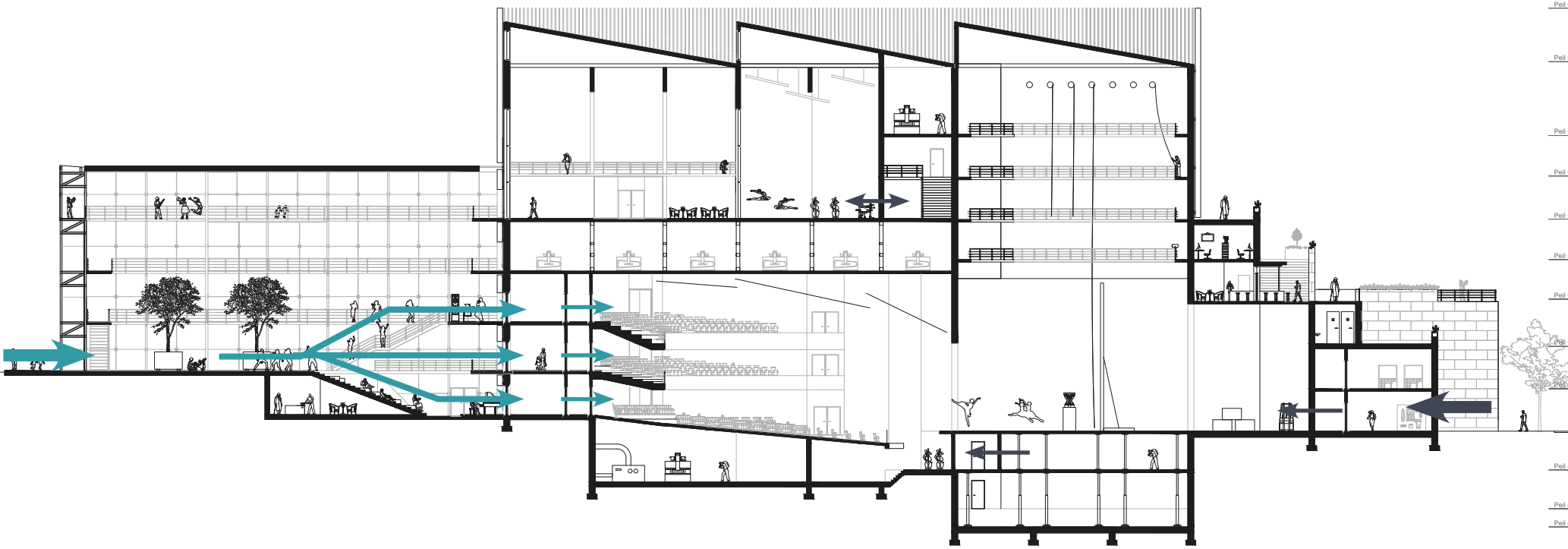
FLOW FROM FOYER TO AUDITORIUM



Design
WALKING ROUTES

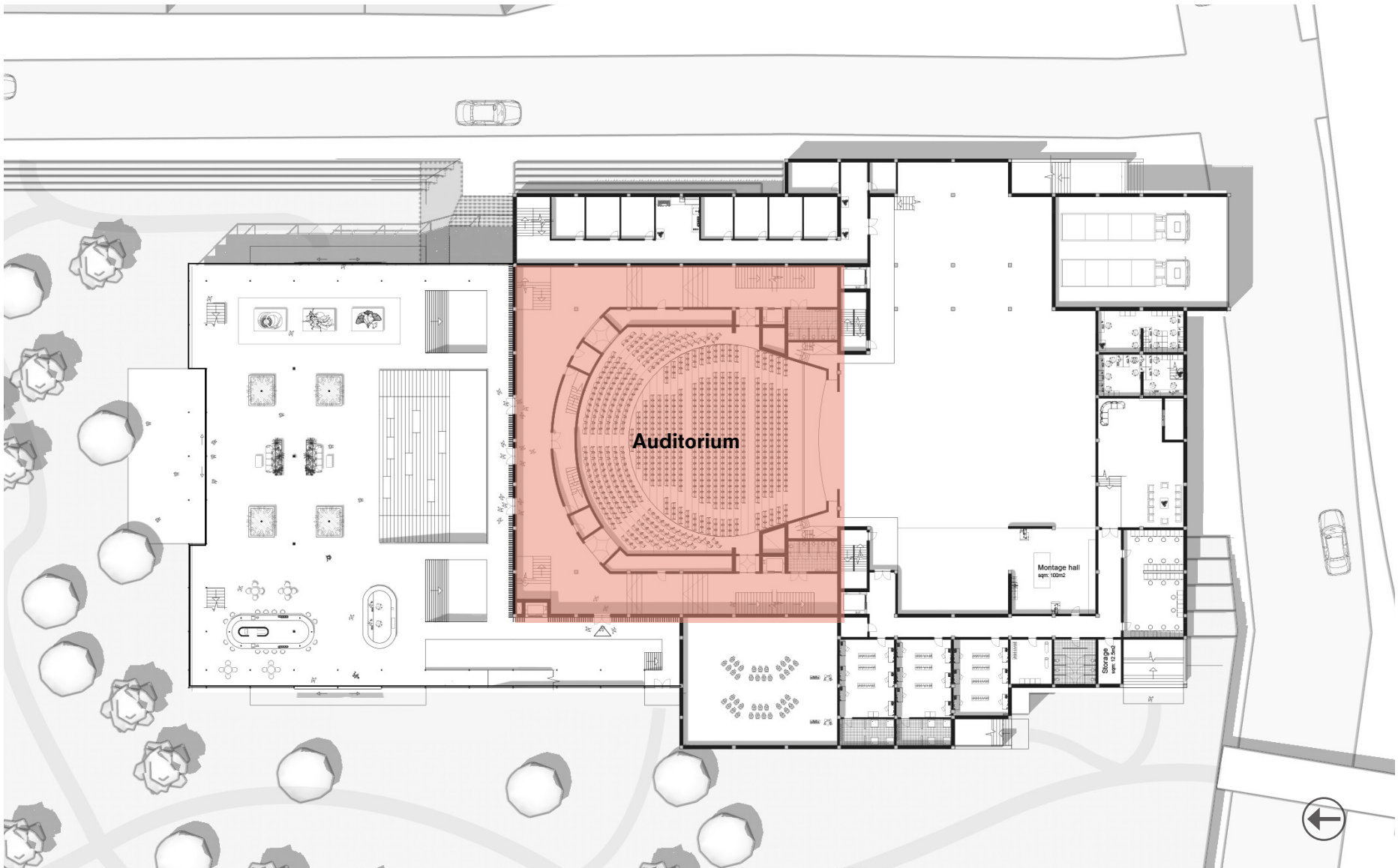


Design
REACHING DIFFERENT LEVELS IN THE BUILDING



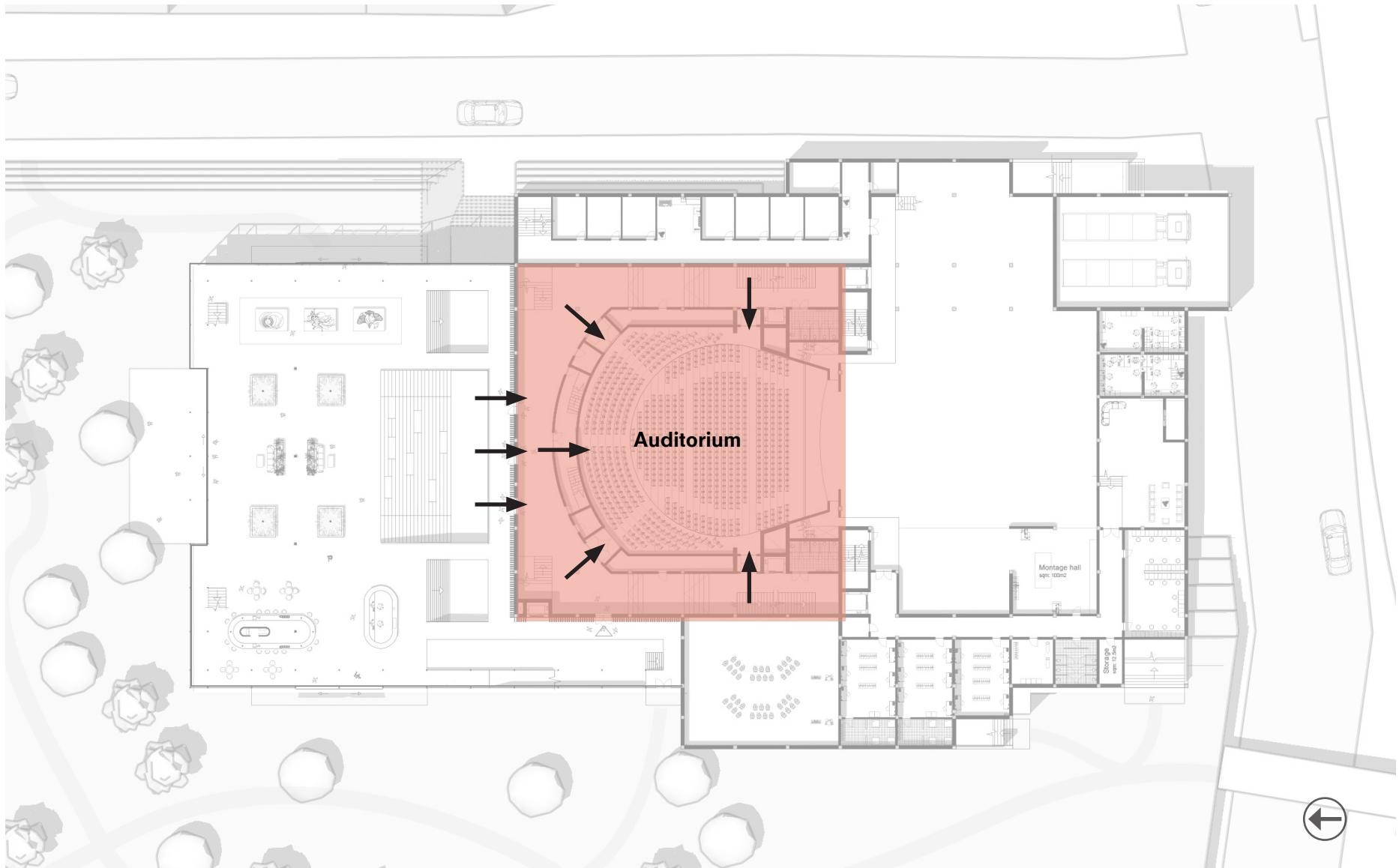
Peil +3
Peil +3
Peil +2
Peil +1
Peil +1
Peil +1
Peil +0
Peil +0
Peil -0
Peil -6
Peil -7

Design
FLOW FROM FOYER TO AUDITORIUM

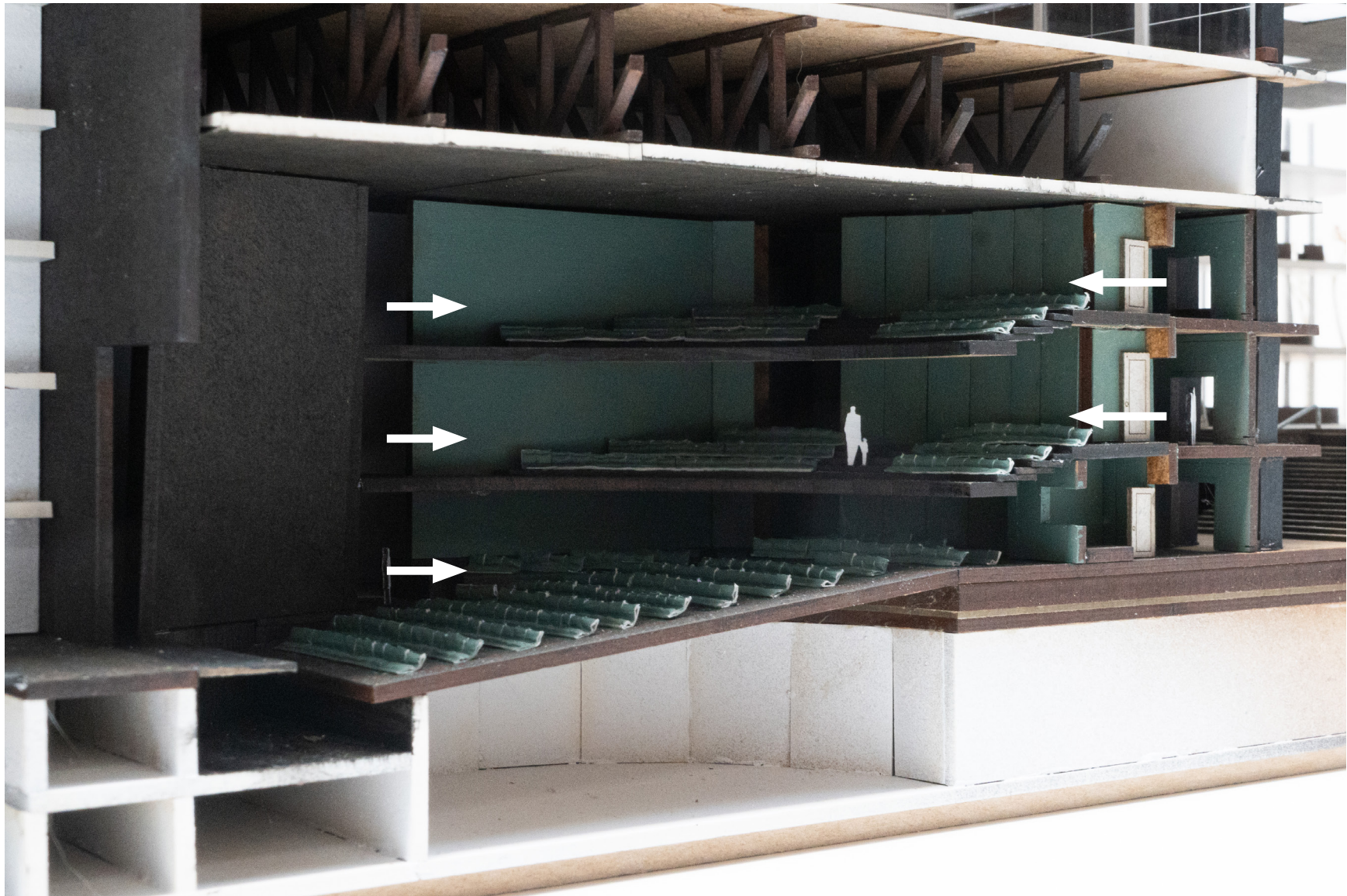


Design

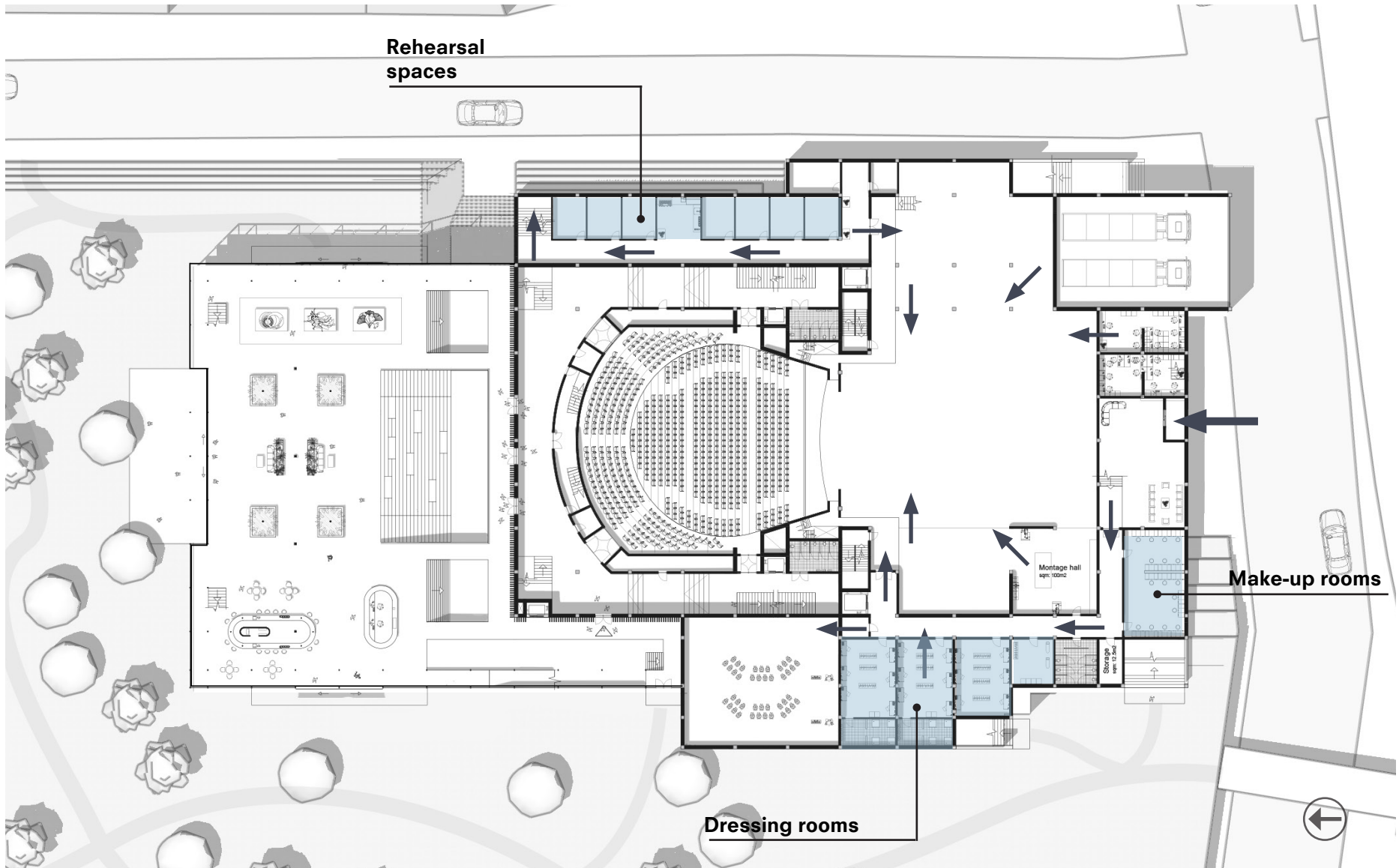
FLOW FROM FOYER TO AUDITORIUM



Design
AUDITORIUM



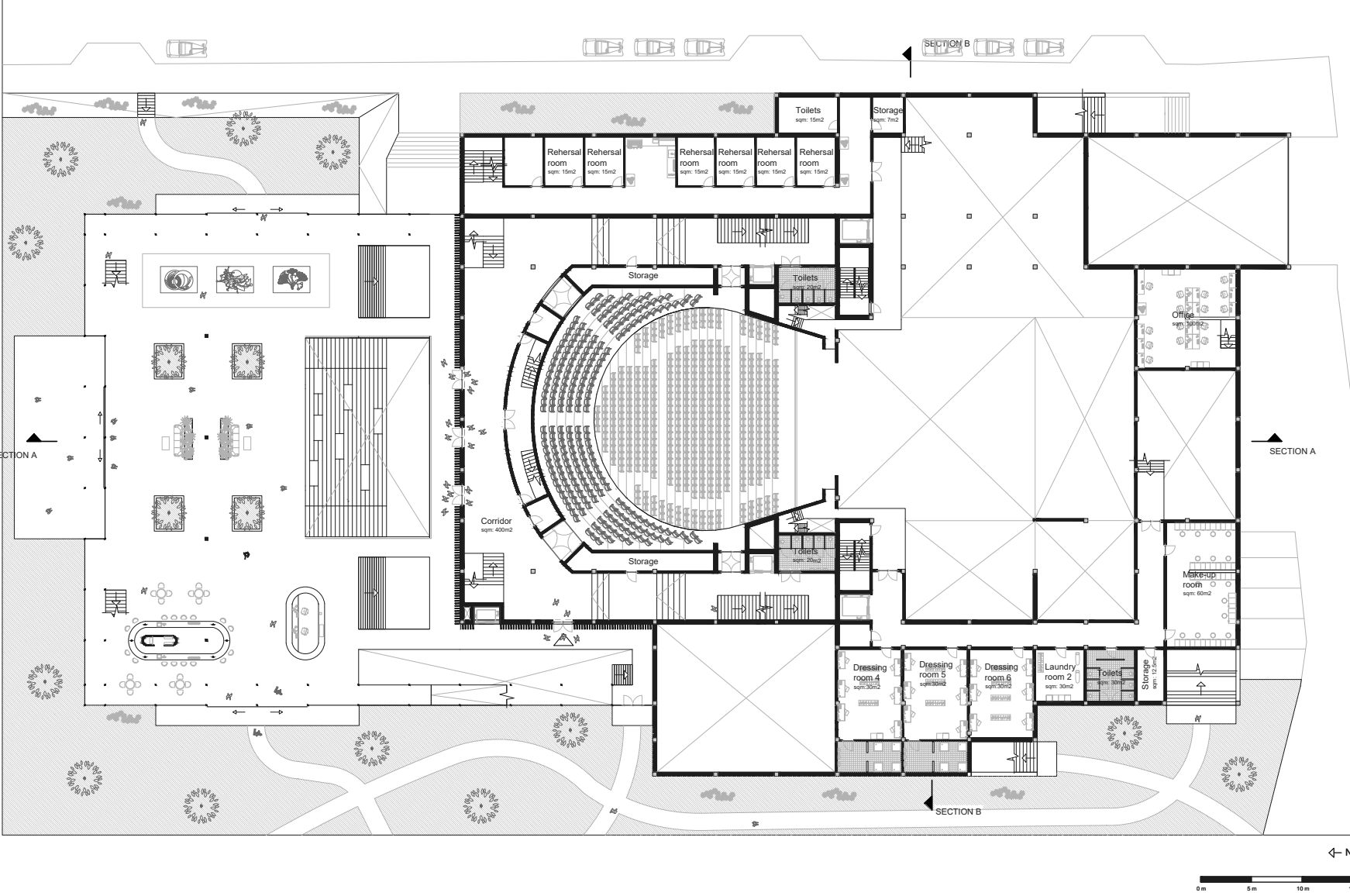
PERFORMER ROUTE DURING OPERA PERFORMANCE



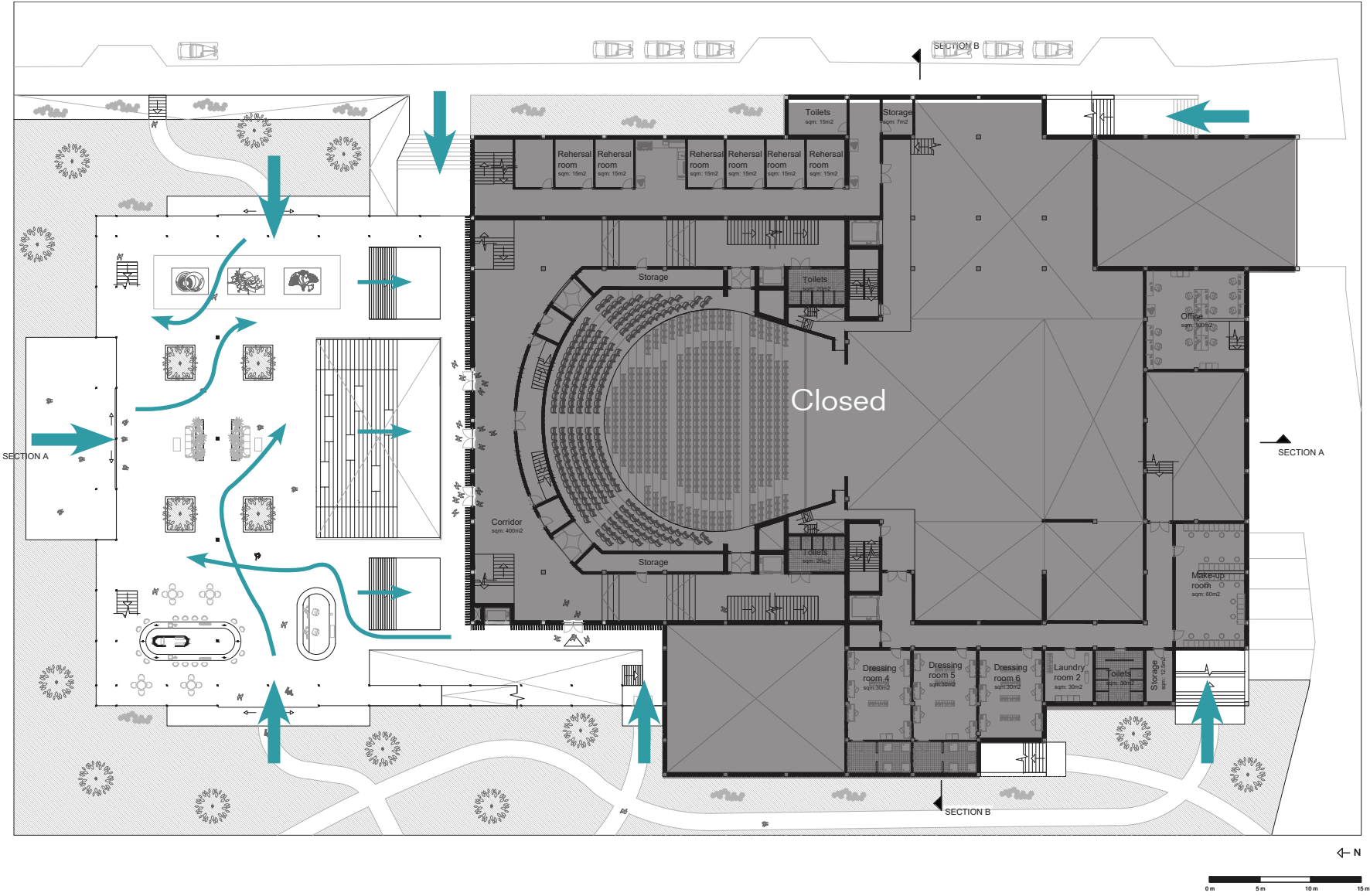
Design
PERFORMER ROUTE



Design WHEN THERE IS NO PERFORMANCE



Design WHEN THERE IS NO PERFORMANCE



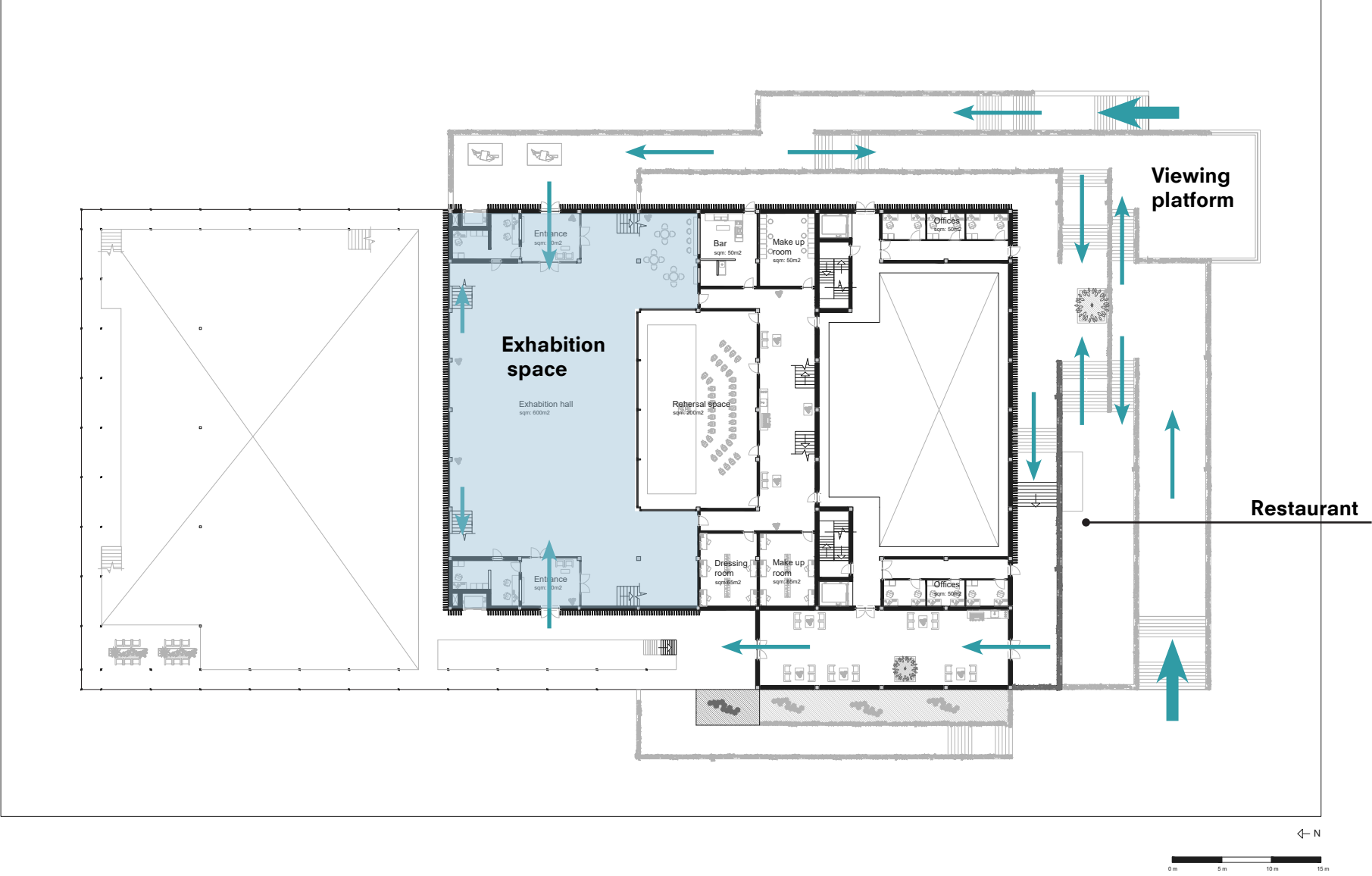
DIFFERENT LEVELS CAN BE REACHED THROUGH ELEVATED PLATFORMS



ACCESSABILITY OF FOYER POSSIBLE THROUGH THE CREATED LANDSCAPE



Design
WHEN THERE IS NO PERFORMANCE

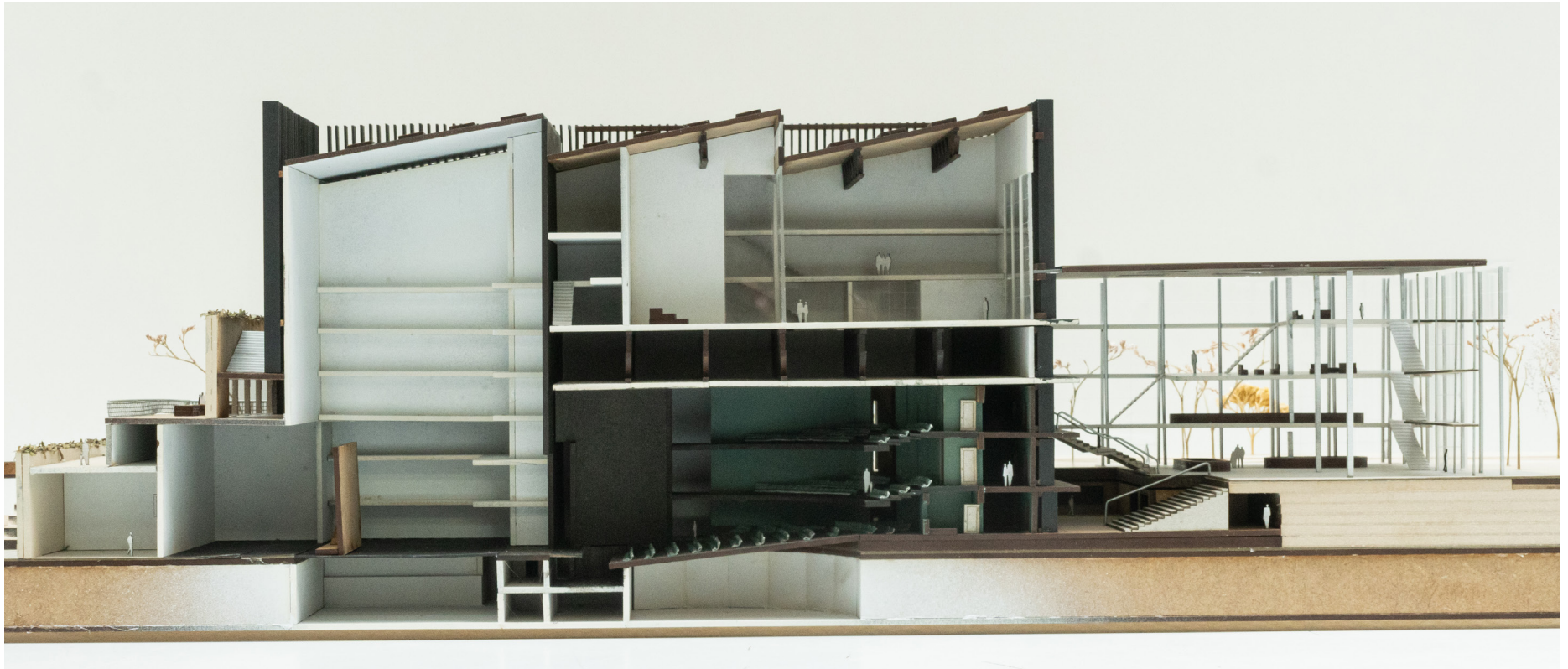


Design

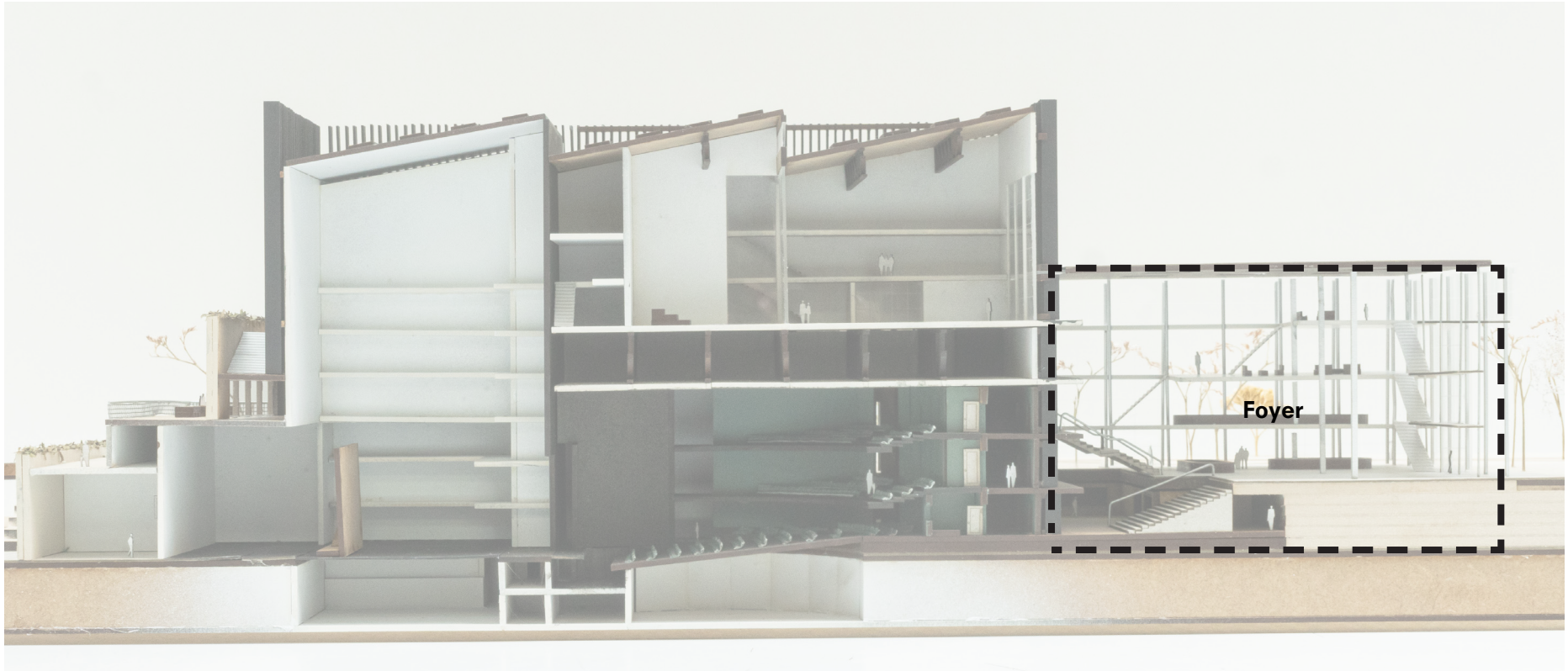
CLIMBING THE PLATFORMS IS REWARDED BY THE EXHIBITION SPACE



Design
ADMOSPHERE IMPRESSIONS



Design
ADMOSPHERE IMPRESSIONS



Design
FOYER FUNCTIONS PLACED LEFT



Design
FOYER FUNCTIONS PLACED LEFT



Design

BEAUTY OF THE MATERIAL AND STEEL CONNECTIONS VISABLE



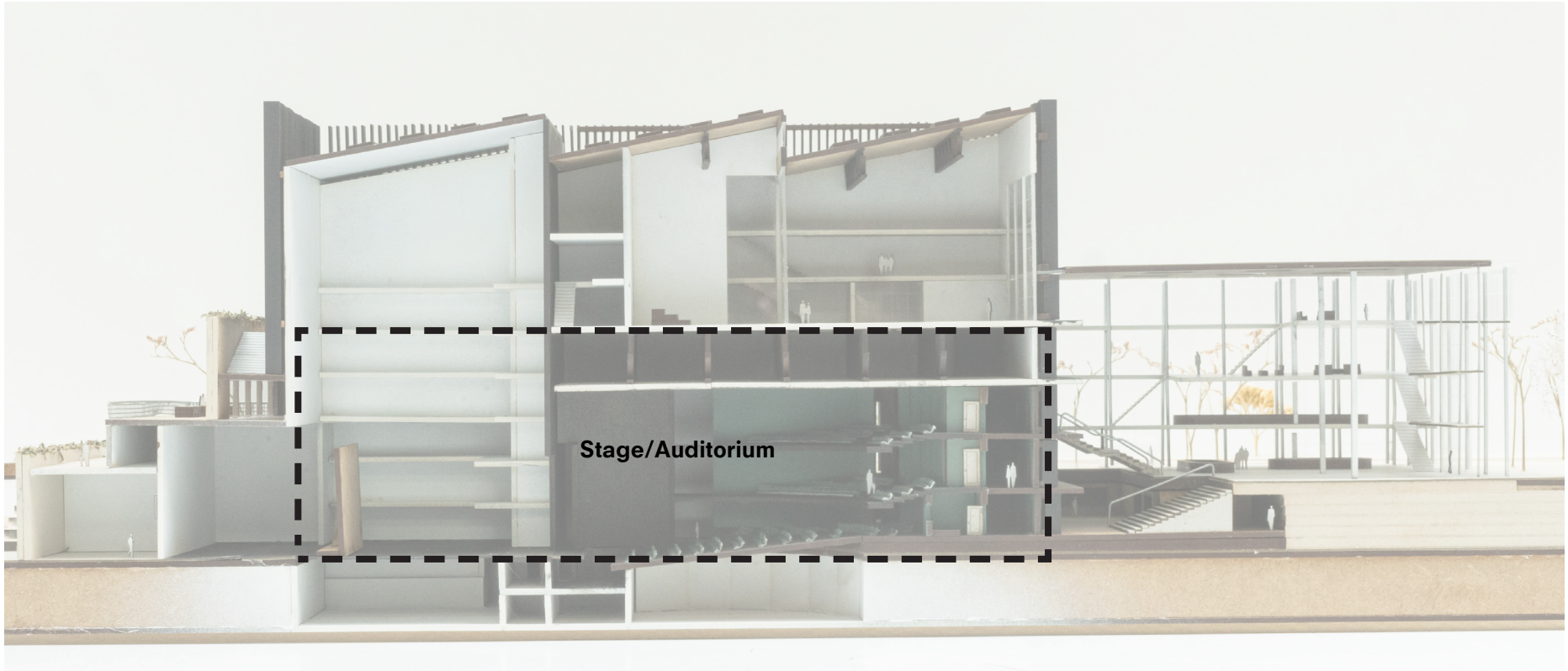
Design
MULTIFUNCTIONAL SPACE



Design
MULTIFUNCTIONAL SPACE



Design
ADMOSPHERE IMPRESSIONS

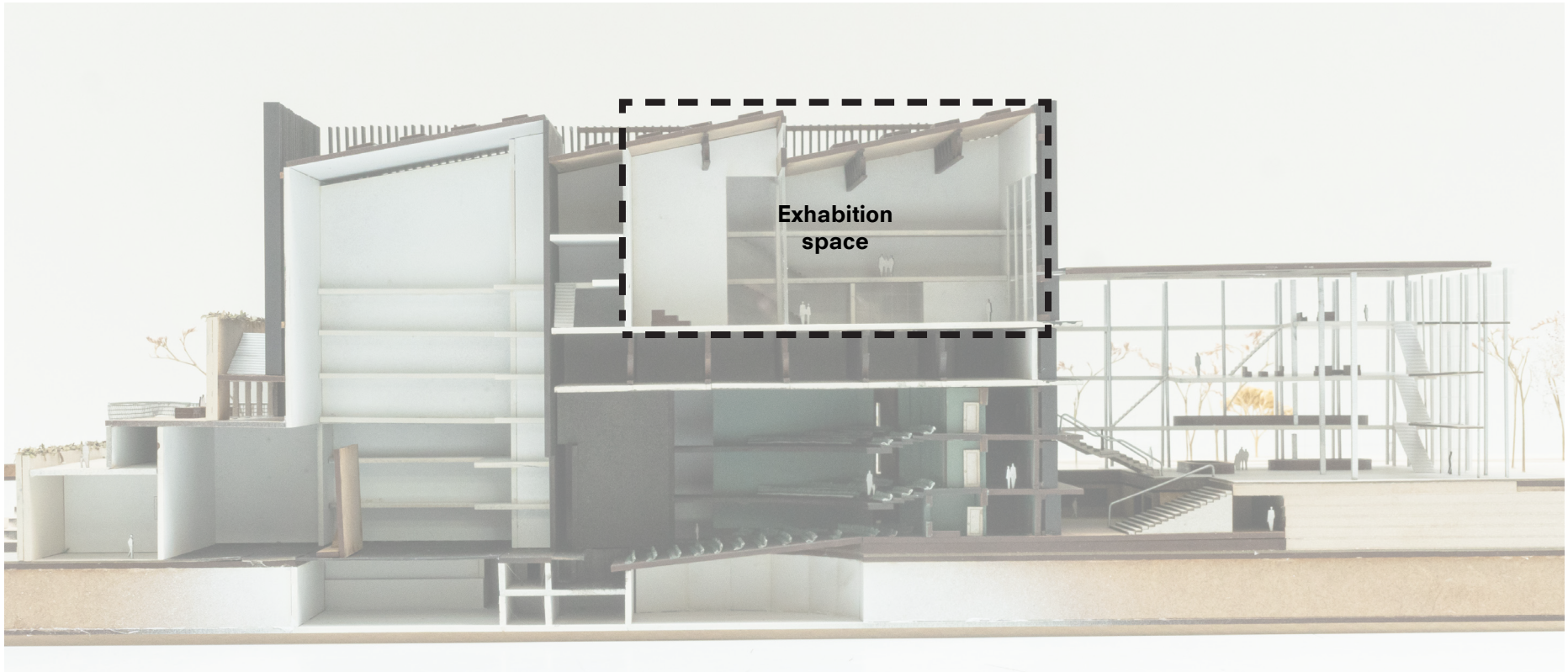


Design
CLASSIC INTERIOR



Design

ADMOSPHERE IMPRESSIONS



Design

OPEN EXHIBITION SPACE WITH REHEARSAL HALL



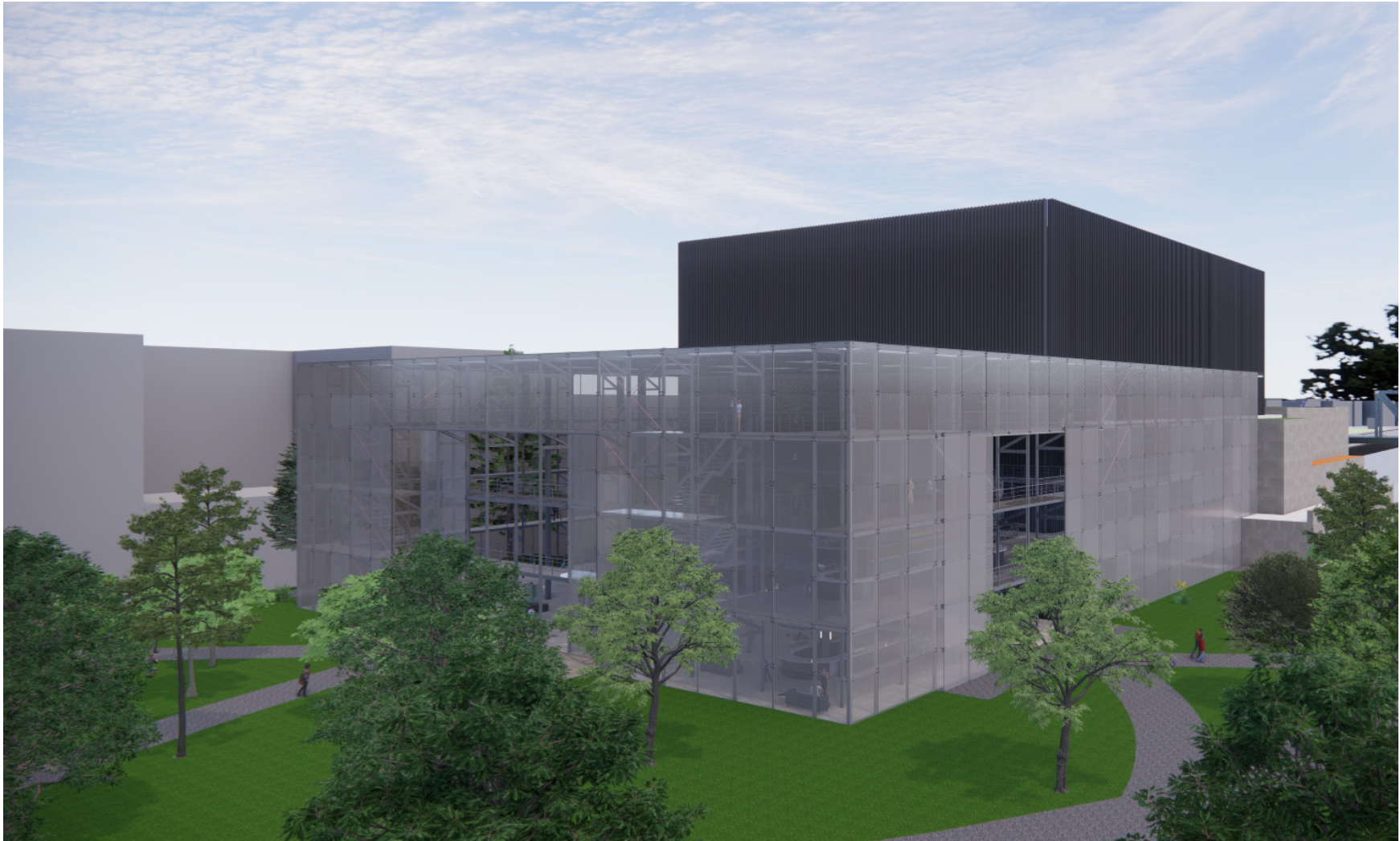
Design
PERFORMANCES CAN TAKE PLACE



Design
RENTABLE FOR EXCLUSIVE ACTIVITIES

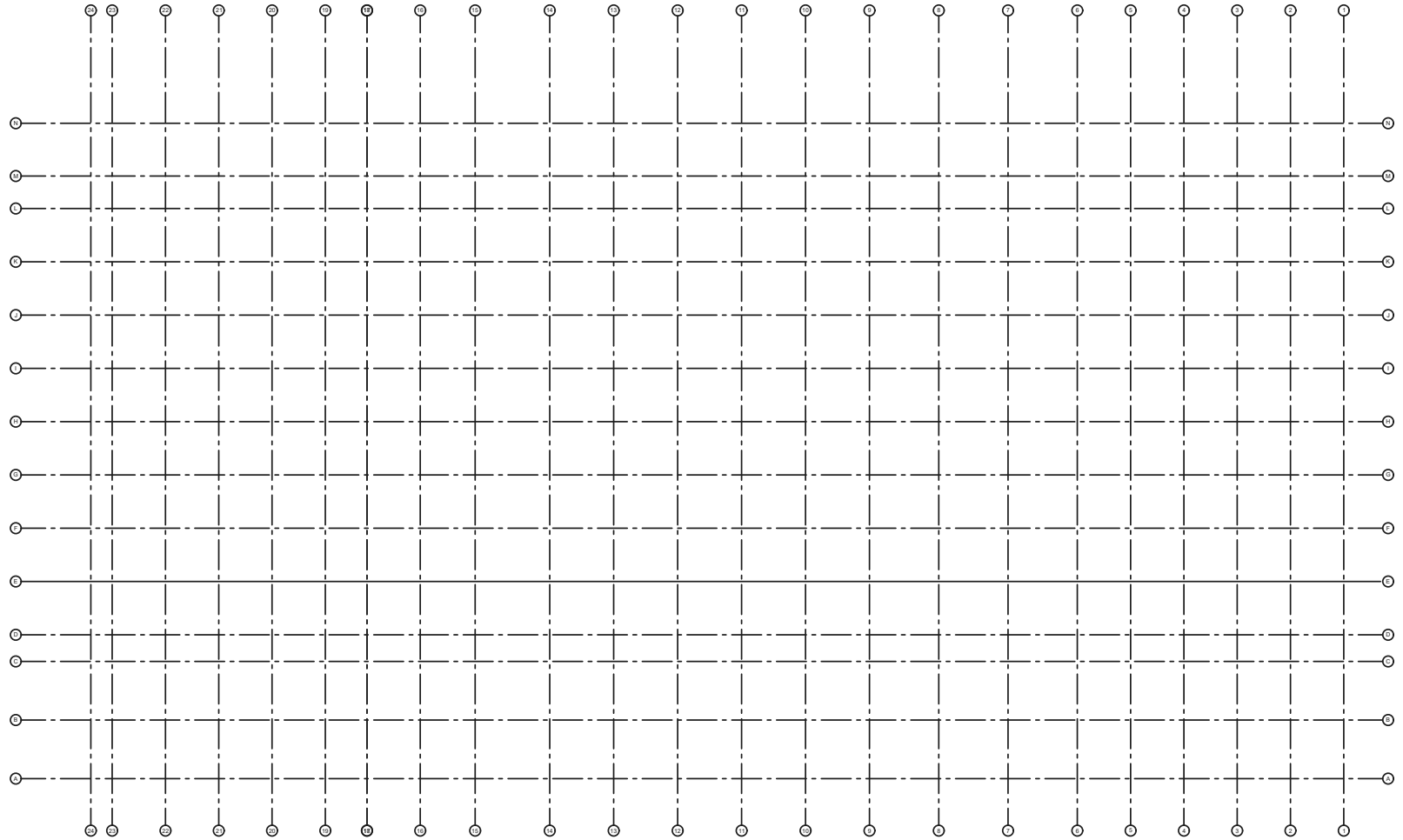


Design
THE BUILDING



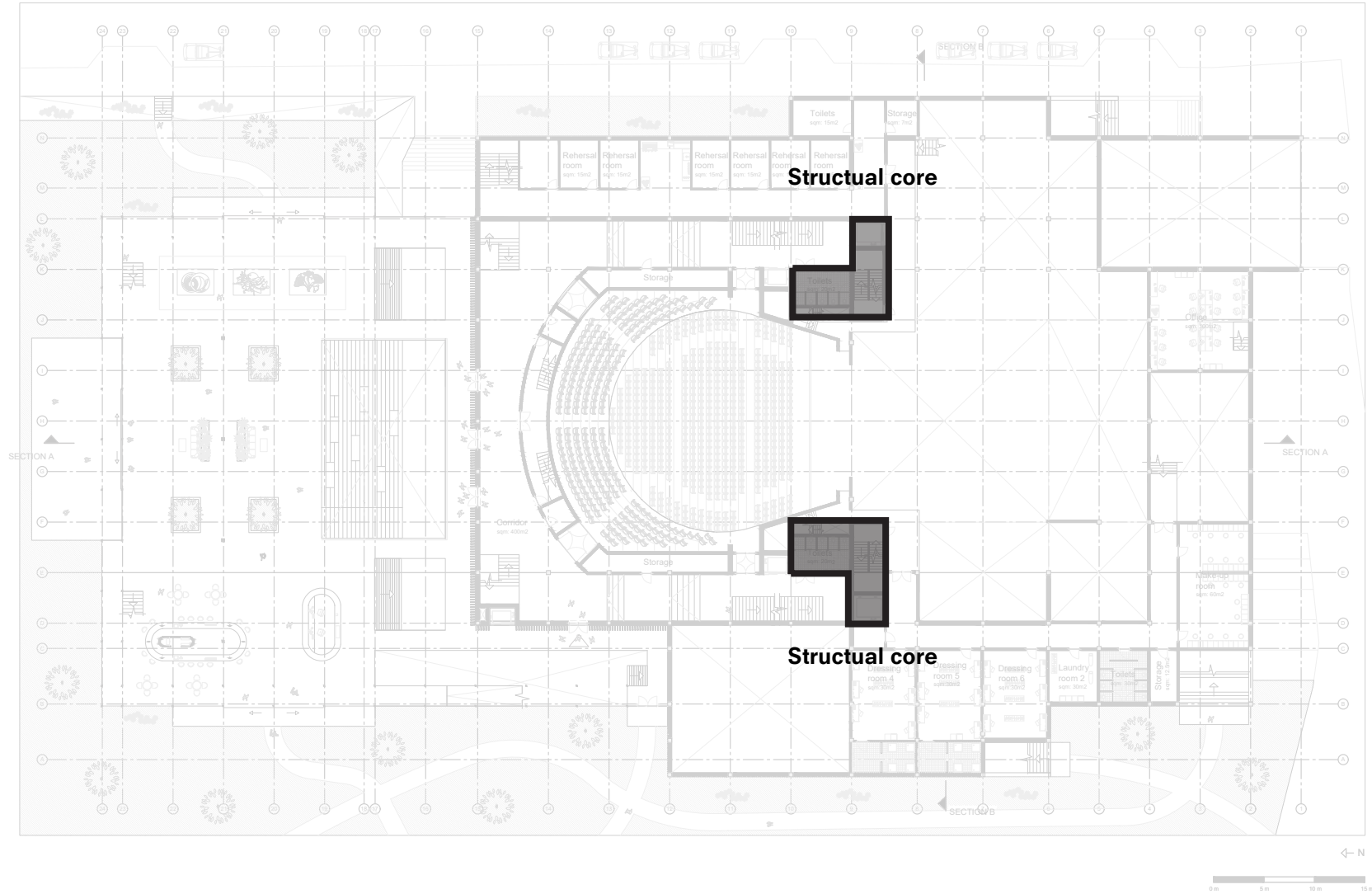
Structure

Design **GRID**

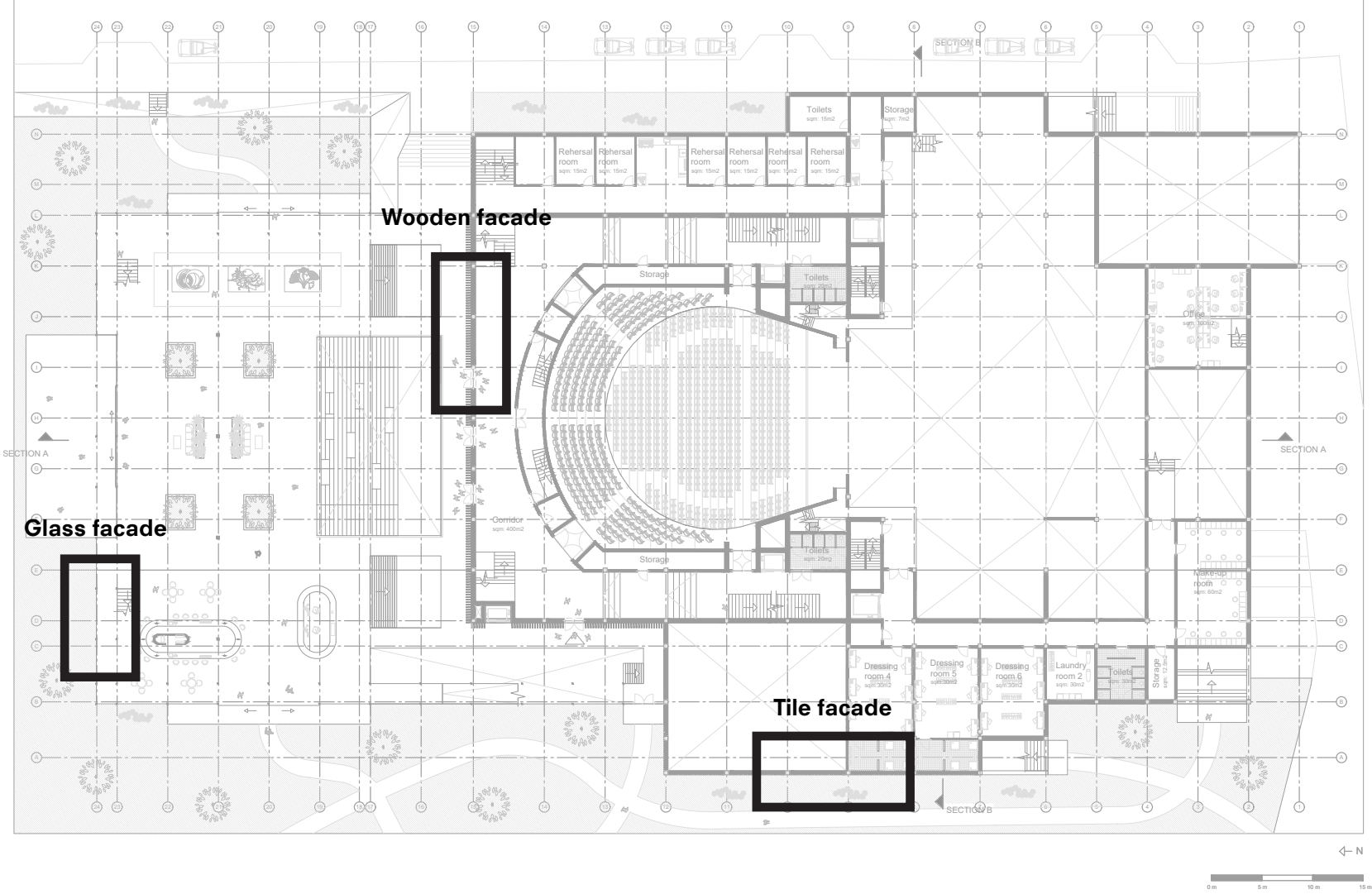


Design

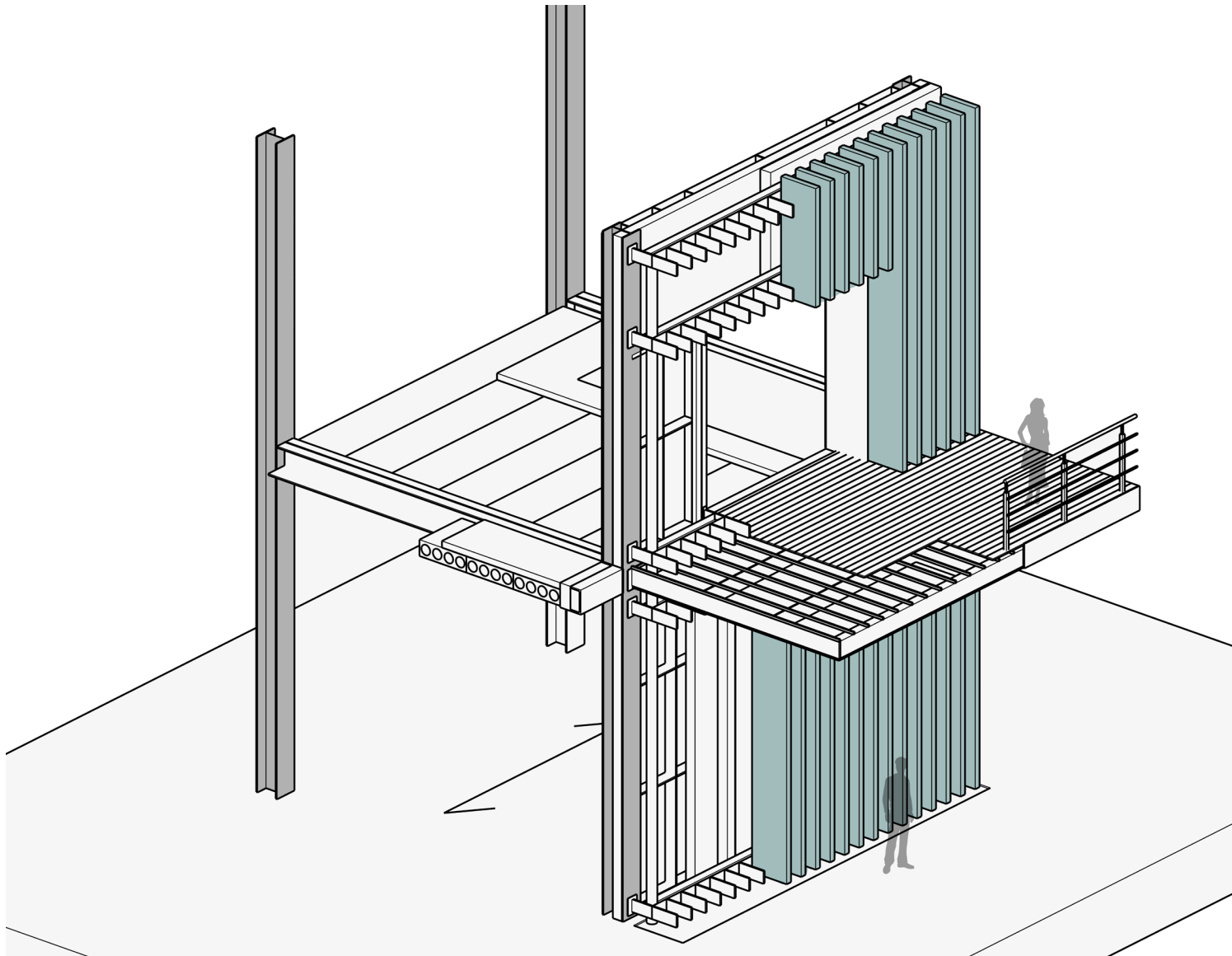
TWO STRUCTURAL CORES WITH COLUMNS



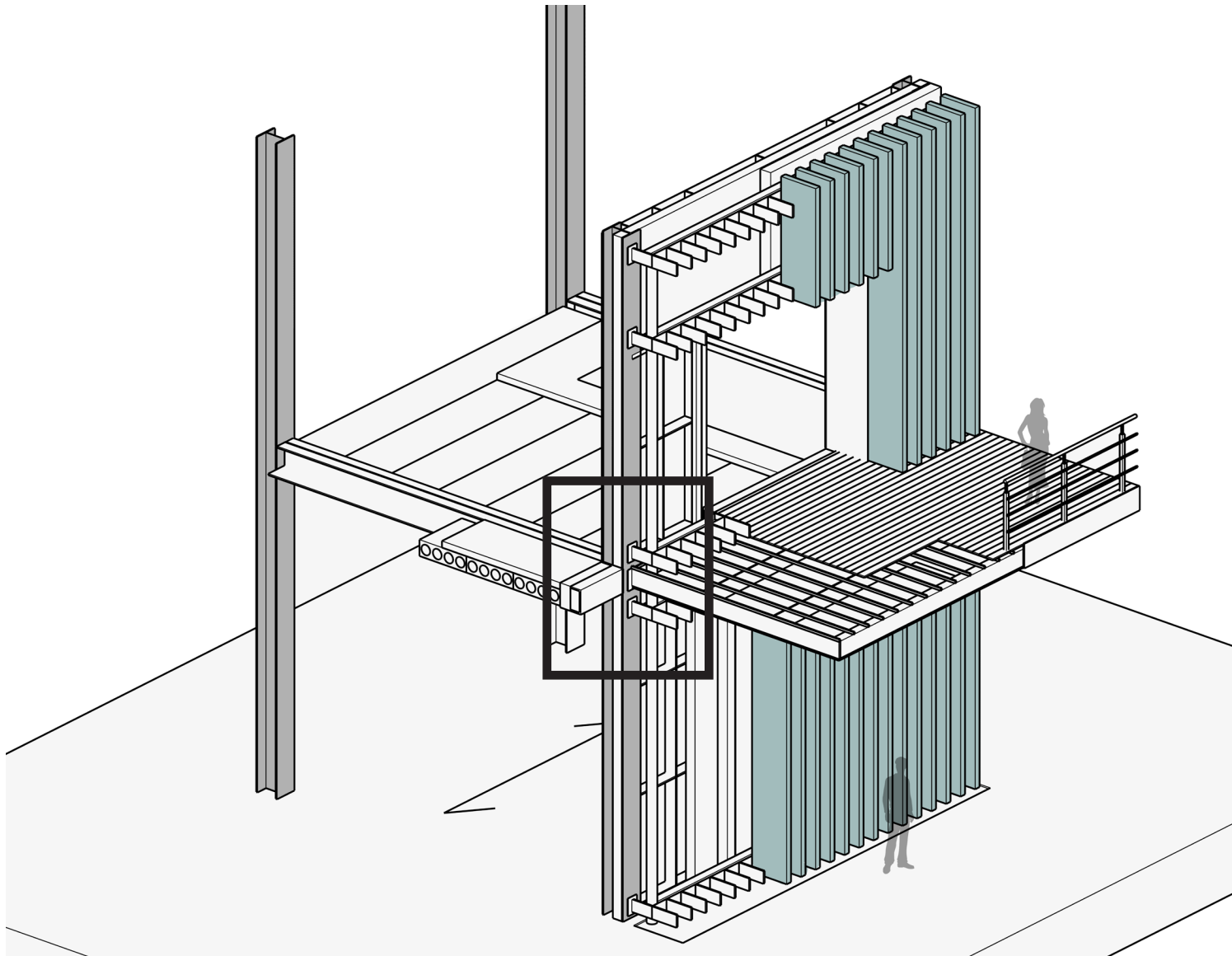
Design
THREE TYPES OF FACADES



Design
CONSTRUCTIVE IMPRESSION

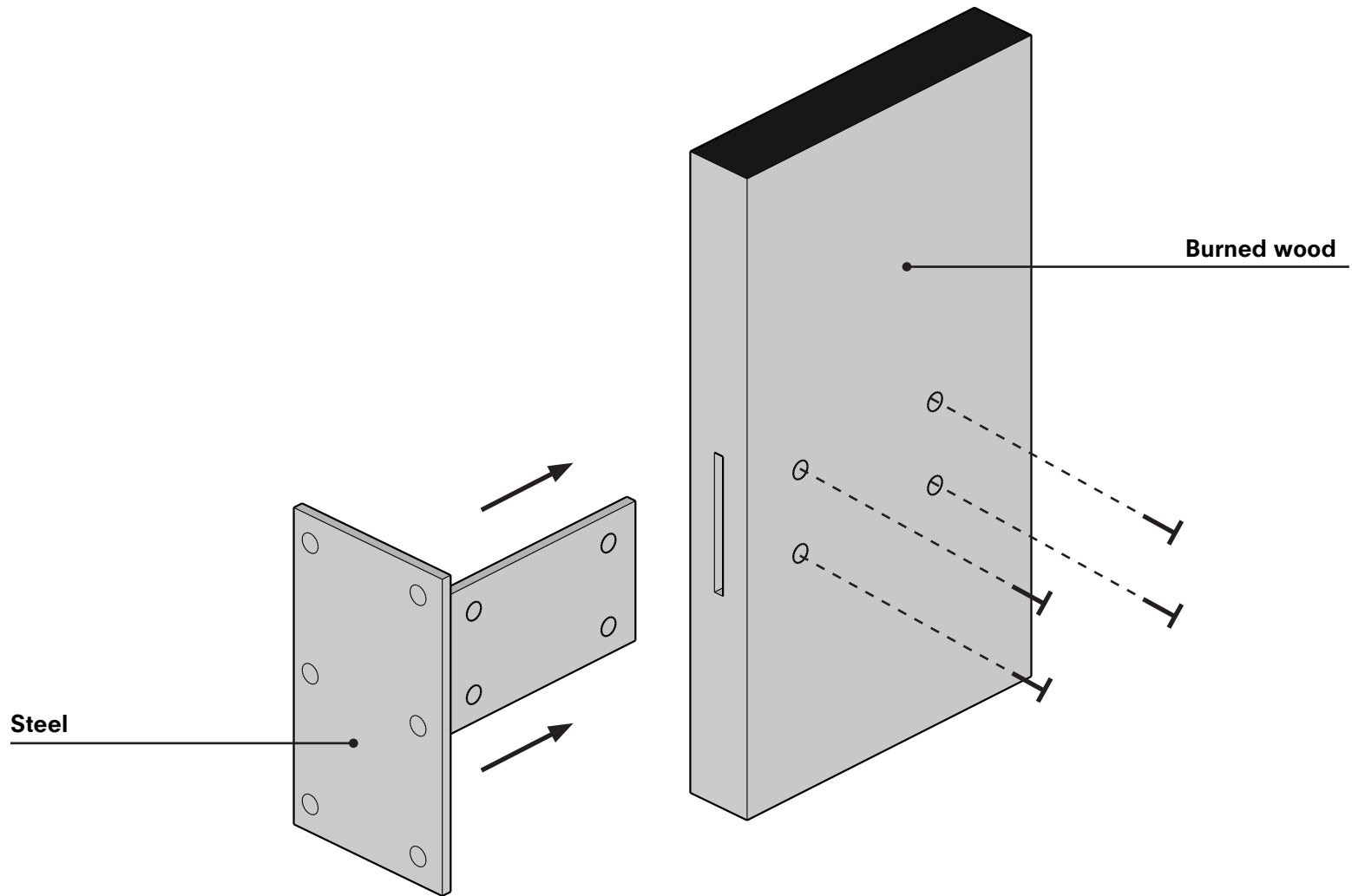


Design
CONSTRUCTIVE IMPRESSION

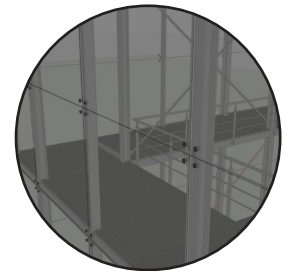
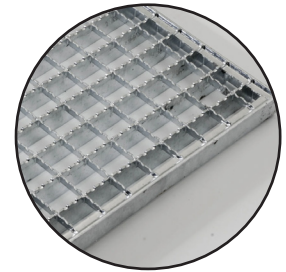
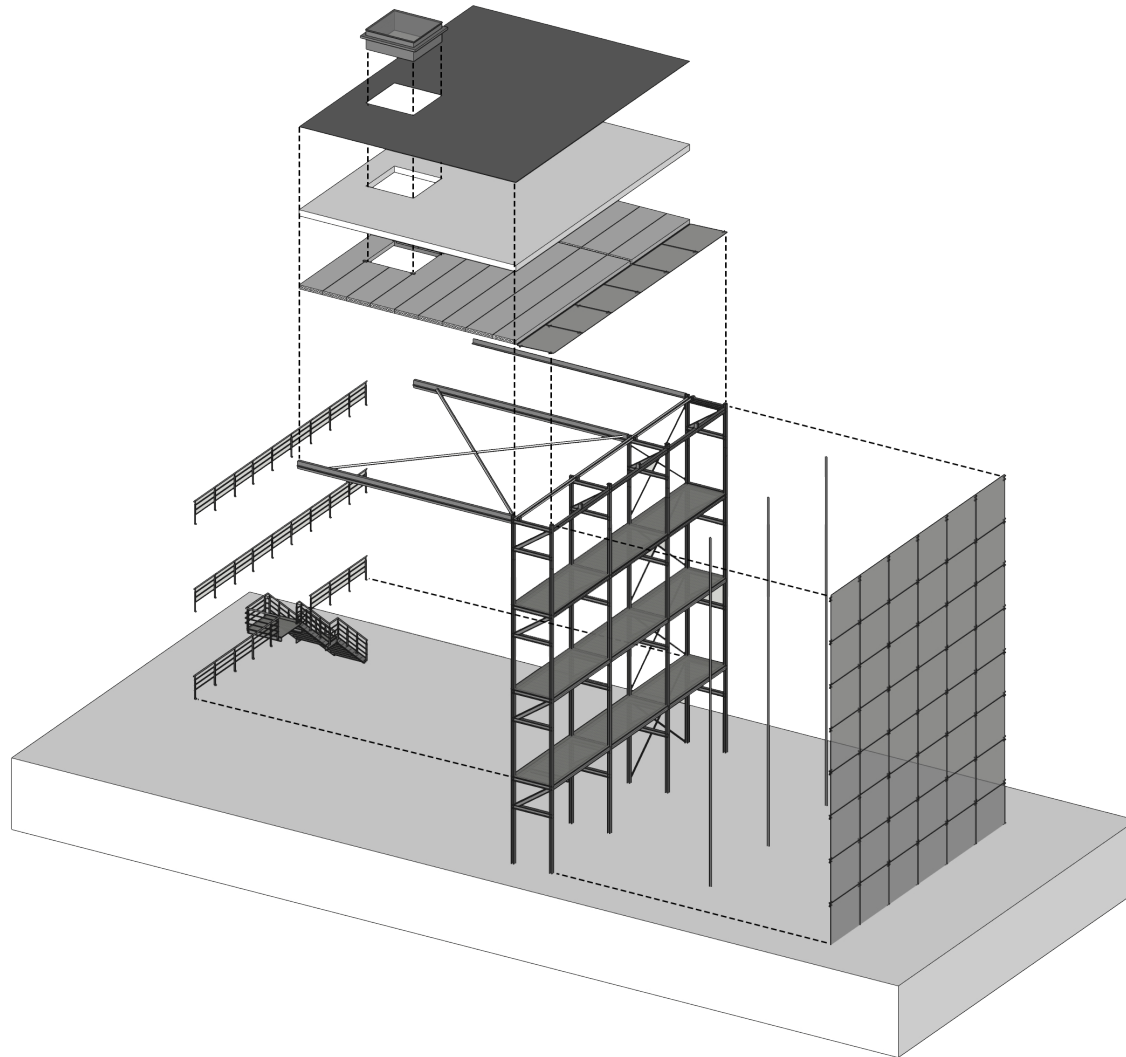


Design

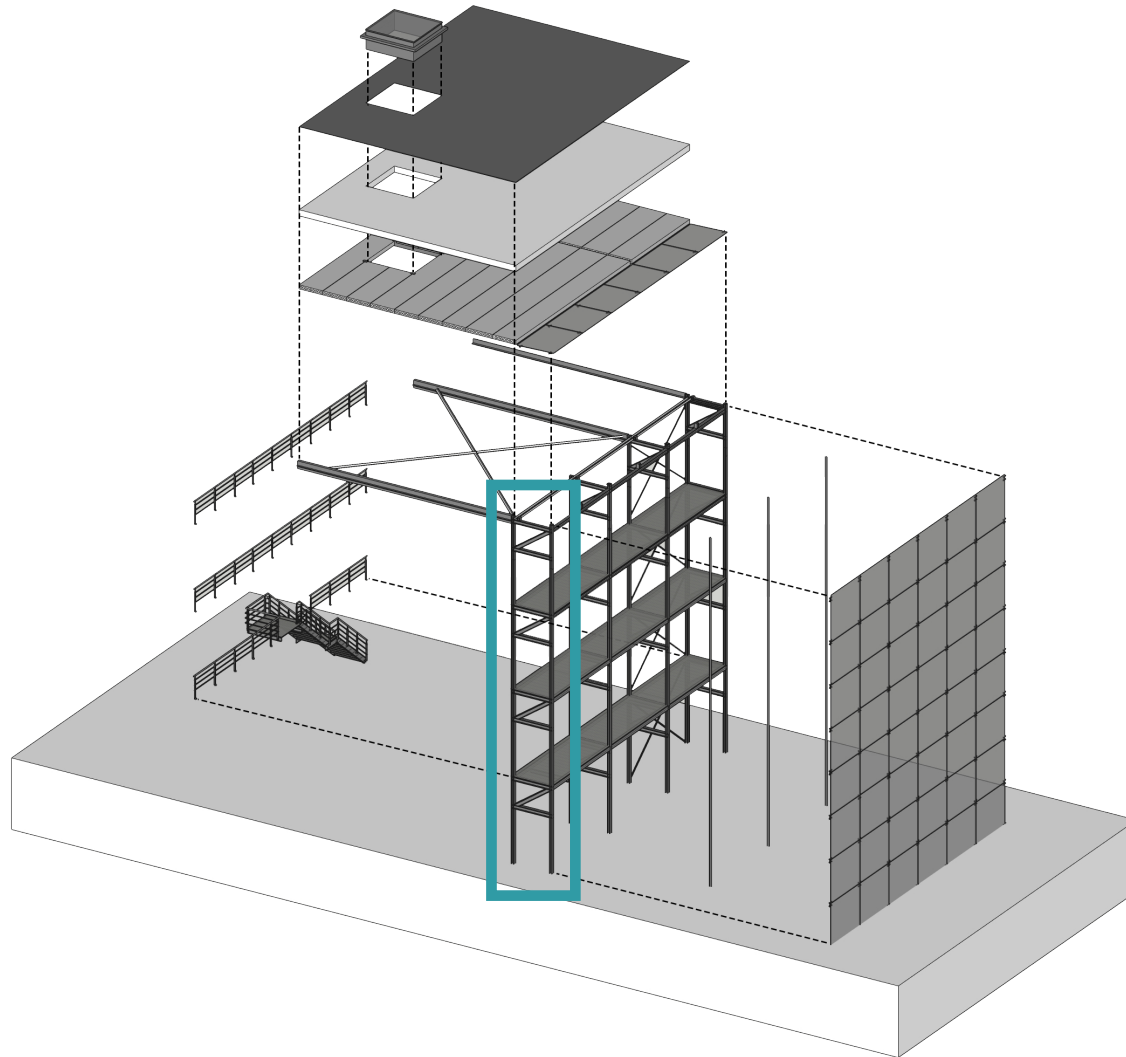
MORTISE AND TENON CONNECTION



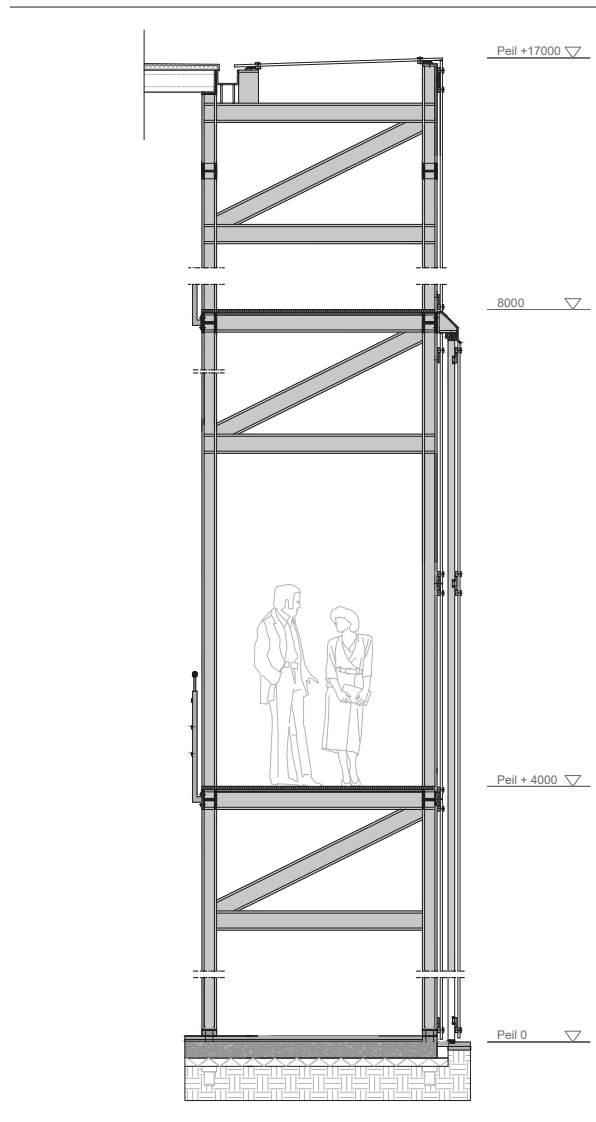
Design GLASS FACADE



Design
GLASS FACADE



Design STEEL FRAME



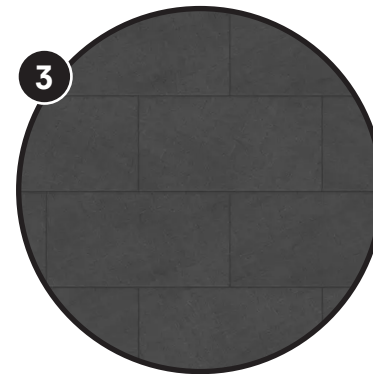
Design
FACADE MATERIALISATION



1
Glass facade with
spider profiles



2
Burned wood



3
Tiles

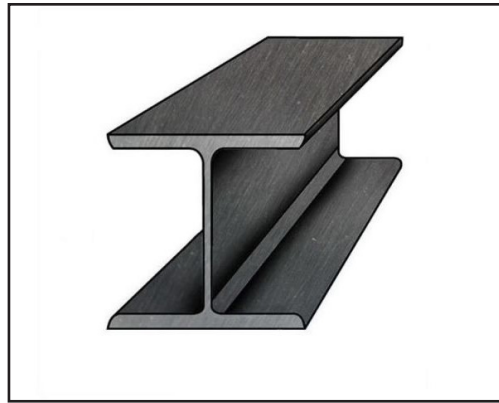
Design
QUESTION

**HOW IS THE BUILDING
SUSTAINABLE?**

Design
SUSTAINABILITY



Dry connections so that the plates can be dismantled and reused.



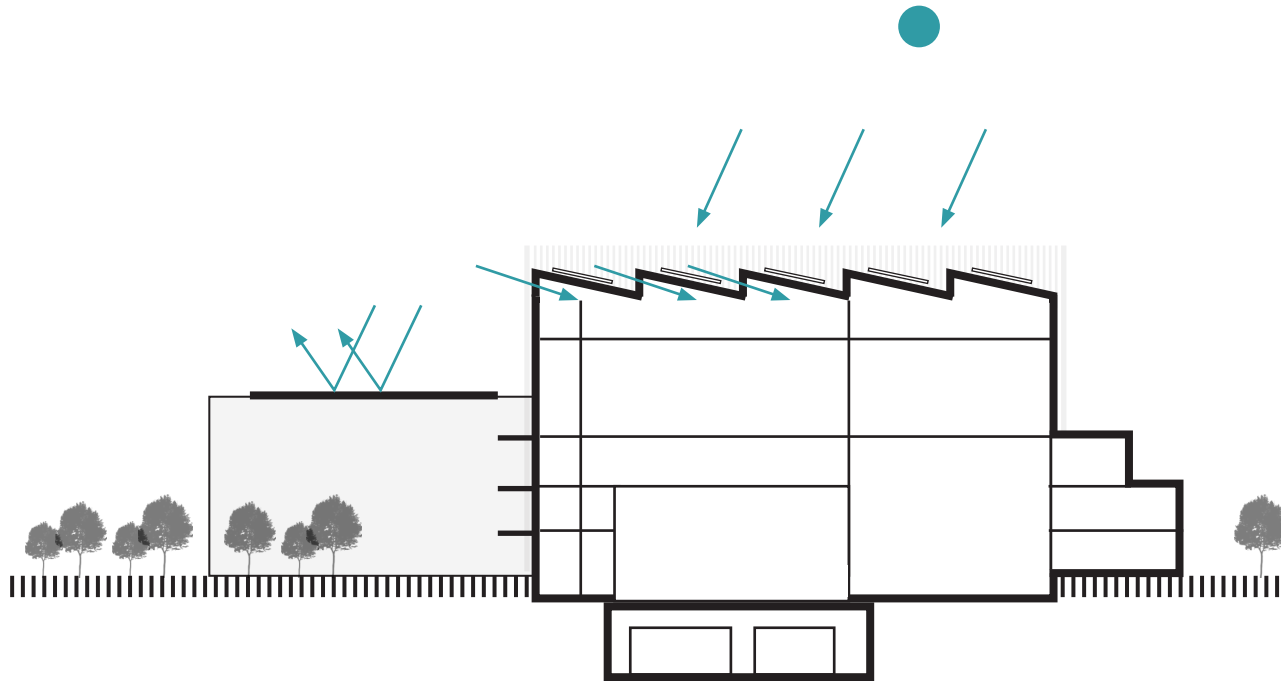
Not cast in concrete but fastened with bolts so easily disassembled and reused.



Sustainable product with natural finish.

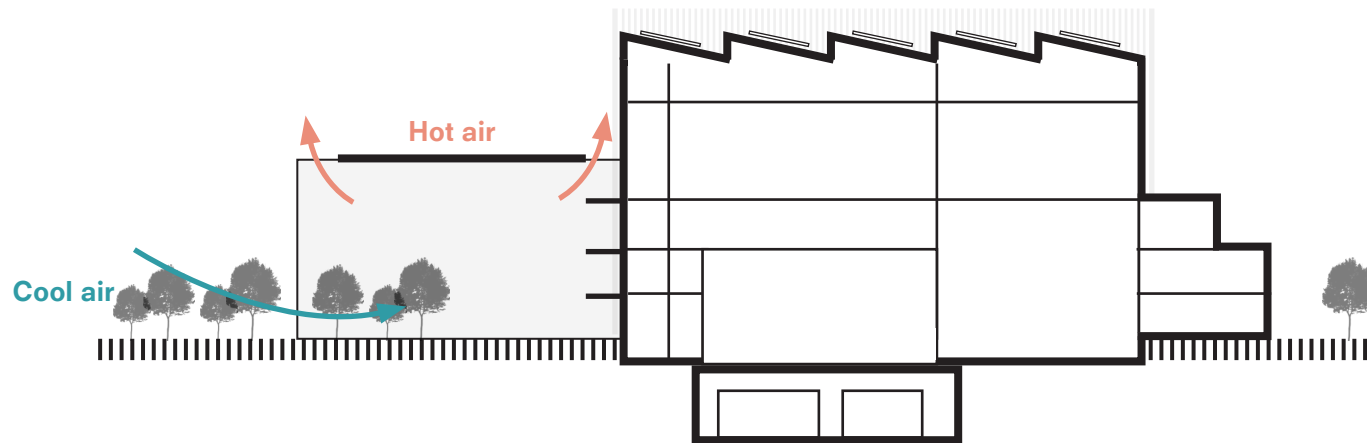
Climate

Climate
SUN



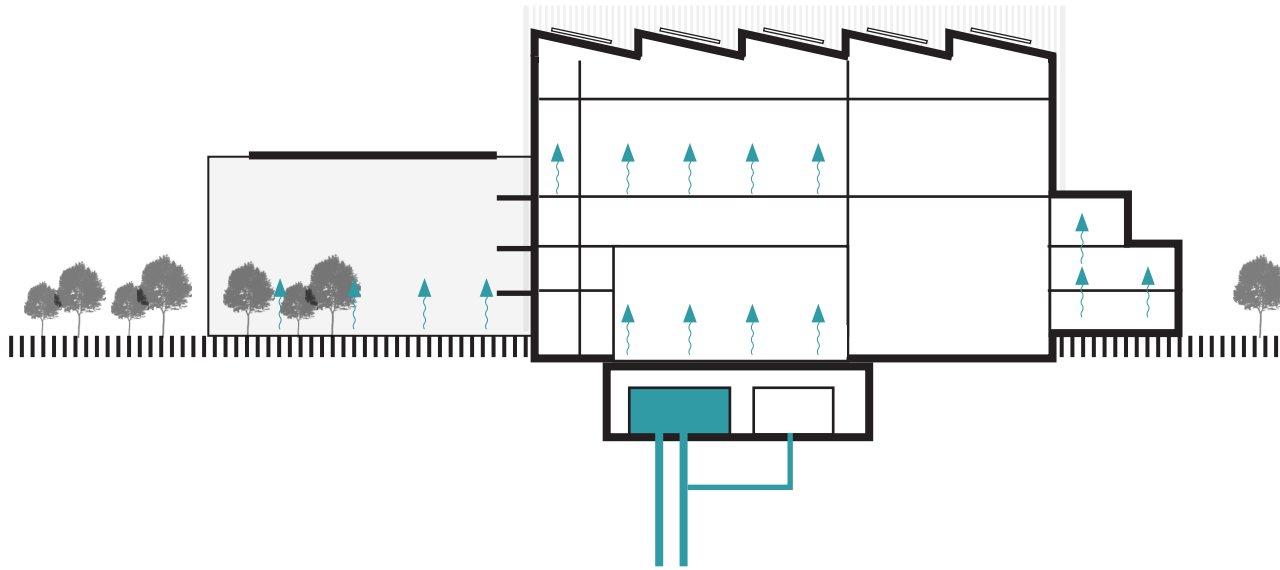
- Solar panels at an angle to the south
- Natural light from the north through the end gable of the roof

Climate **WIND**



- Cool fresh air enters the building through the plinth
- Hot air leaves the building through the roof

Climate HEATING



- Heat pump applies in the building
- Floor heating is connected to heat pump
- Heat storage for times when it is needed

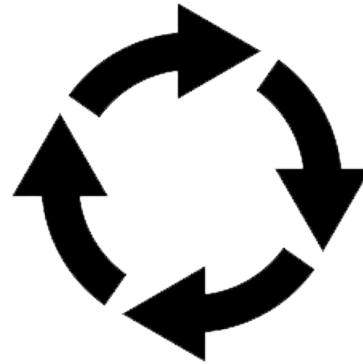
CONCLUSION

RESEARCH QUESTION

RESEARCH QUESTION

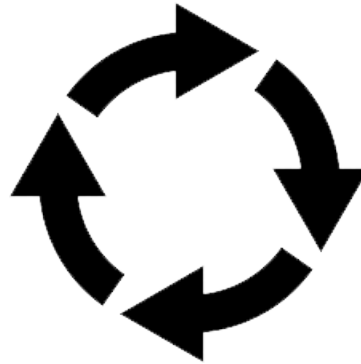
How can a traditional opera house in Berlin contribute to attracting new customers so the artform continues to stay relevant in the present and is ensured to be futureproof?

Conclusion
DEVELOPMENT



**EVERYTHING IN OUR SURROUNDINGS IS
CHANGING AND DEVELOPING**

Conclusion
EVOLVING



IMPORTANT TO KEEP ON EVOLVING

Conclusion

TRADITIONALLY, THE OPERA WAS A MEETING POINT TO MAKE CONNECTIONS



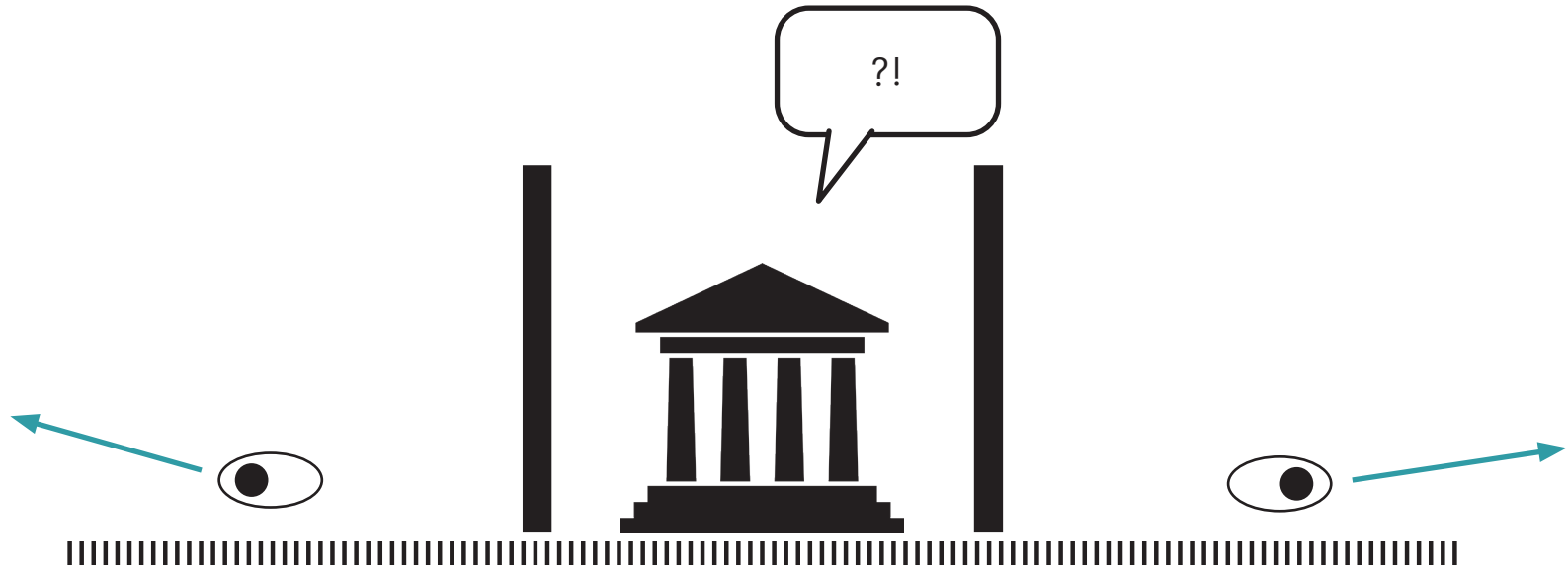
Conclusion

ONLY FOR THE RICH ELITE, NOT EASILY ACCESSIBLE TO THE PUBLIC



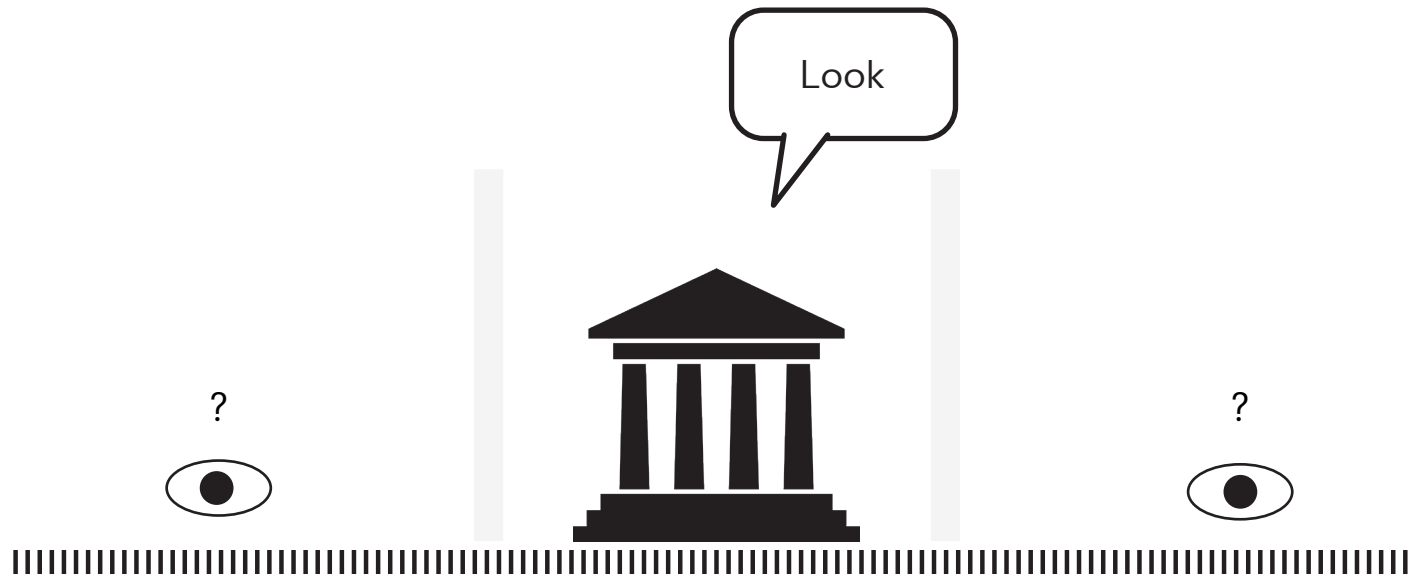
Conclusion

MANY DISTRACTIONS ARE CAUSING LESS INTEREST IN THE ART FORM



Conclusion

MAKING THE BUILDING MORE ACCESSIBLE



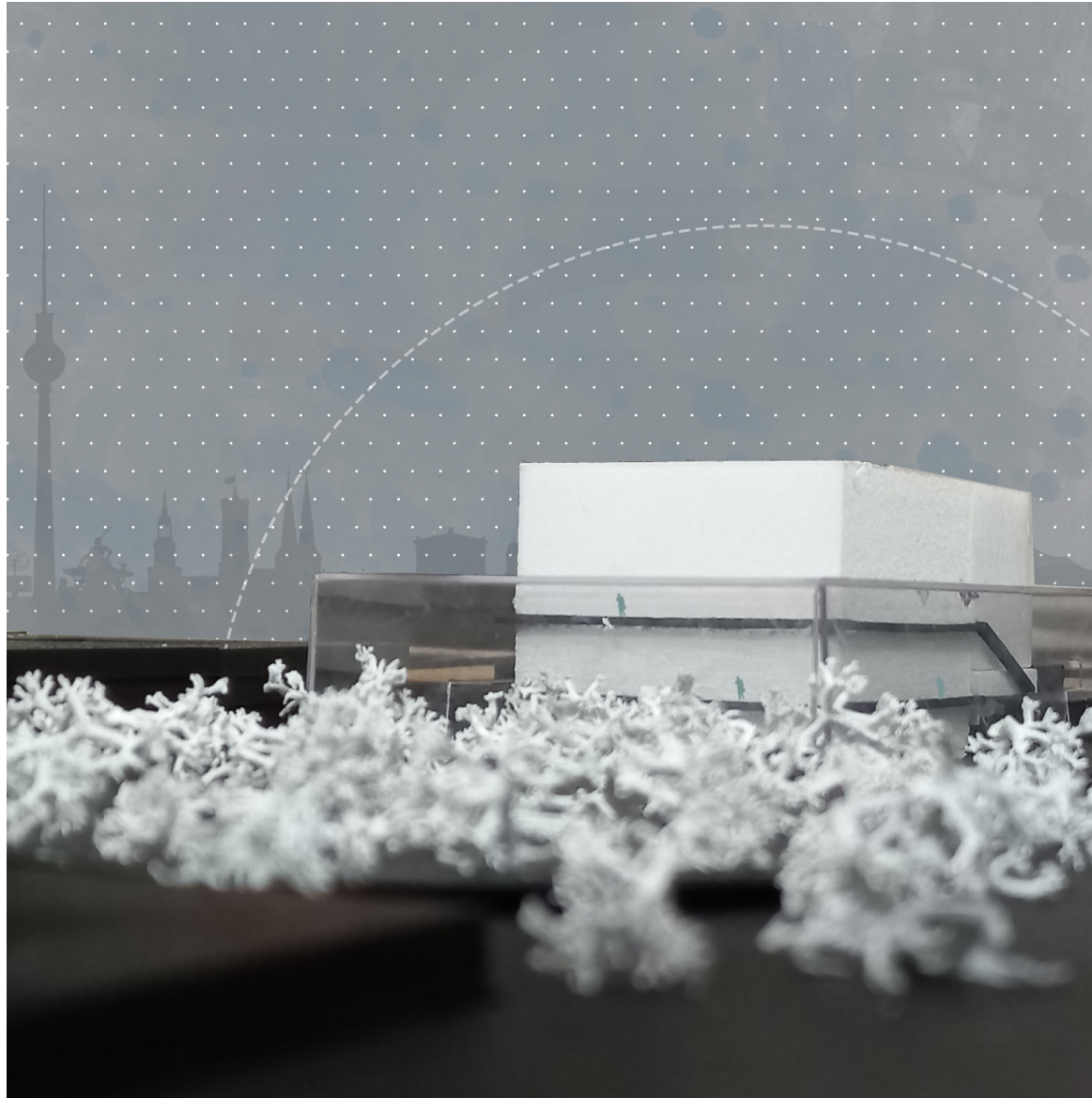
Conclusion

EASIER TO BECOME A PART OF OUR DAILY ROUTINE



Conclusion

THE TRADITIONAL OPERA WILL CONTINUE TO EXIST



Conclusion
PUBLIC OPERA

**Let the public opera become a meeting point and
a precursor for renewing the future of opera**

Conclusion

IF YOU'D LIKE, THE FAT LADY IS WAITING FOR YOU



THANK YOU

