

# COMPLEX PROJECTS OPERA HOUSE

**INSIDE-OUT** 

Youp van Terheijden Juli-03-2025

# INTRODUCTION

# How did theatres shift from city stages to hidden stages?

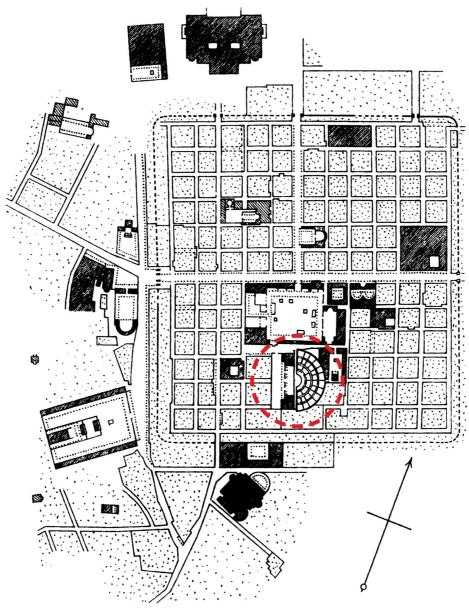




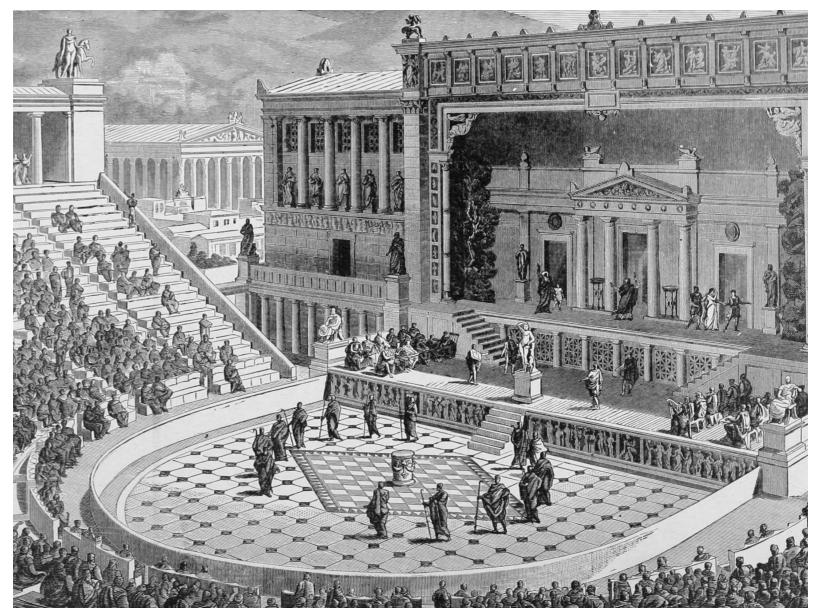


Auditorium of Teatro alla Scala

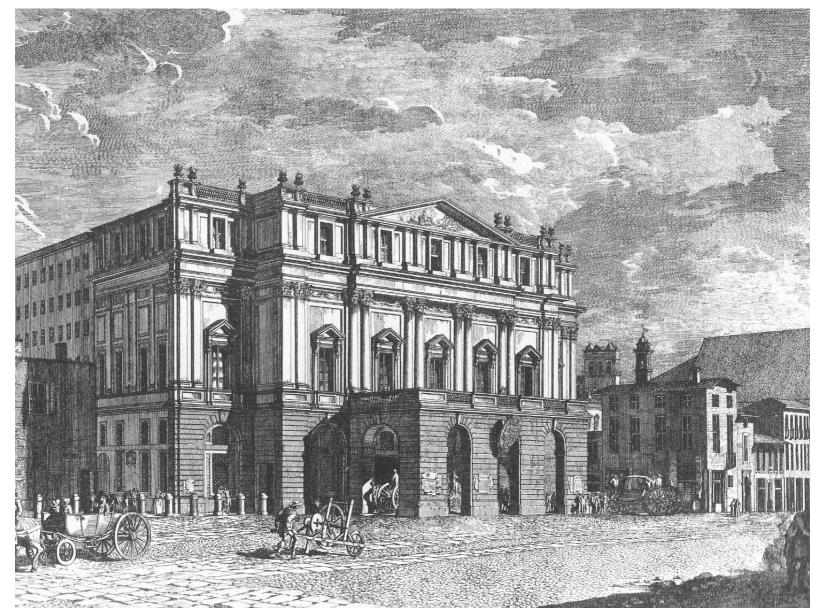
# **THEATRE AND CITIES**



Timgad, 100 AD (Carlson, 1988)



Theatre of Dionysus, Athens

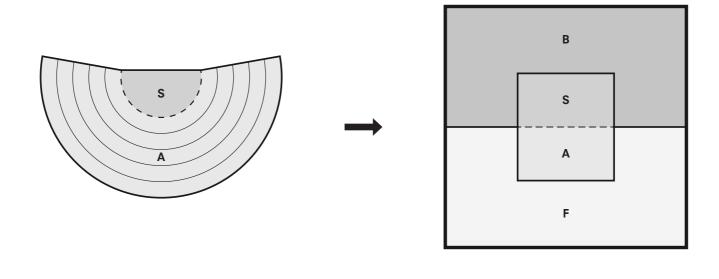


Teatro alla Scala (1778), Milan



Palais Granier (1875), Paris

# **EVOLUTION OF THE THEATRE**

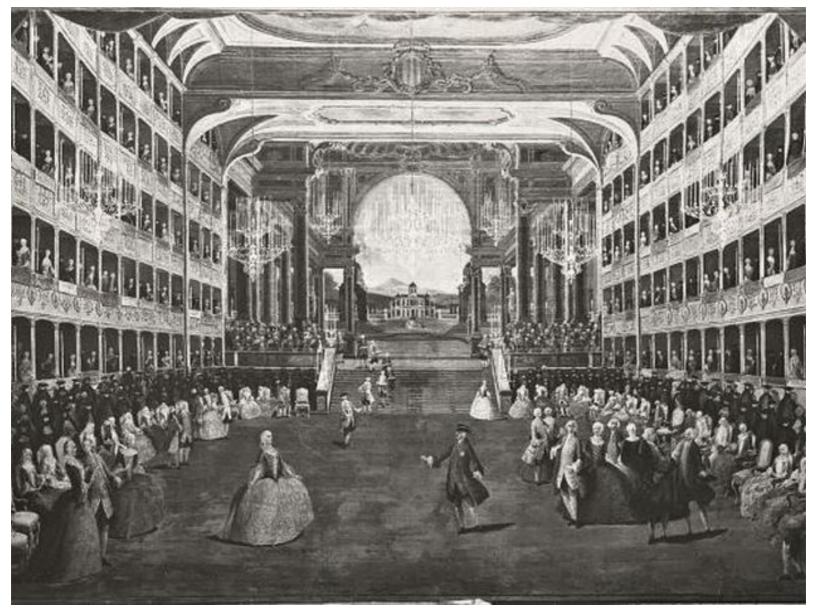


**ANCIENT GREEK** 

Carlson, M. (1988). The Theatre as Civic Monument.

**MODERN** 

# **SOCIETY AND OPERA**



Interior of Teatro San Cassiano, ca. 1637

# **SOCIETY AND OPERA**



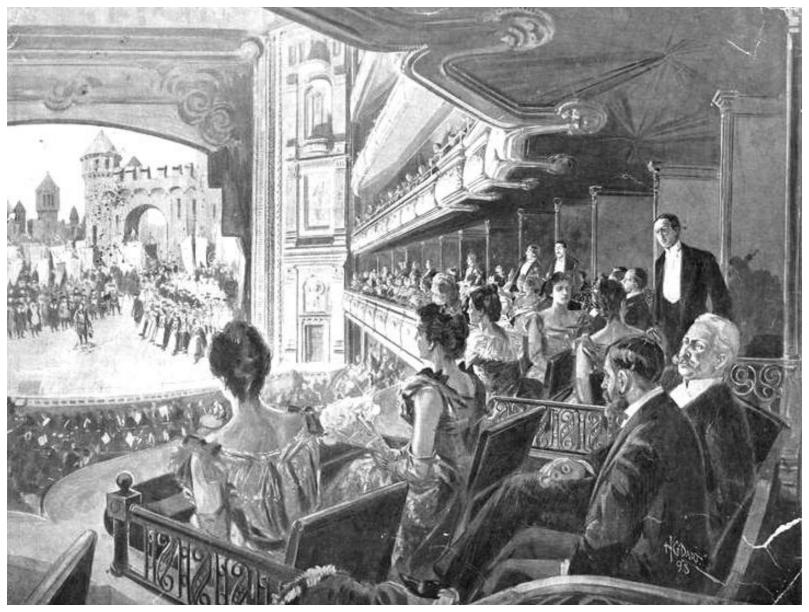
Interior of Teatro alla Scala, ca. 1830

# OPERA AS MEETING PLACE FOR ALL (Zelechow, 1993, p. 262)

"By the late eighteenth century and in the nineteenth century the opera played a preeminent role in the cultural life of Europe. [...] The opera house became the meeting place of all classes in society"

(Zelechow, 1993, p. 262).

# THE CHANGE OF OPERA



Audience at Metropolitan Opera, ca. 1890

# THE CHANGE OF OPERA



Audience at Teatro alla Scalla, 1933



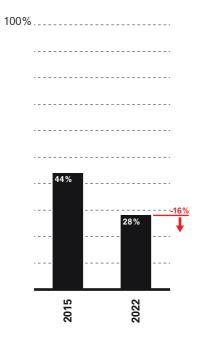
"[...] it did not become unpopular; rather it was made unpopular. It was actively appropriated from its popular audience by elite social groups determined to situate it as the crowning glory of their culture – so-called 'high culture'."

(Storey, 2003, p. 12)

# **OPERA TODAY**

### ATTENDING CULTURAL ACTIVITIE IN EUROPE

participating in any cultural activity at least once a year (% of population aged 16 and over)



### ATTENDING CULTURAL ACTIVITIES IN ITALY

participating in any cultural activity at least once a year (% of population aged 16 and over)

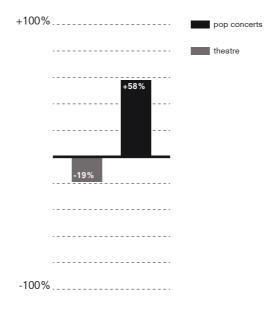
100%		 		
	33%	 		
		 12%	7%	
			1 /0	
	CINEMA	<b>IHEATRE</b>	OPERA	

Culture Statistics, Eurostat (2022)

# **OPERA TODAY**

### ATTENDANCE AT LIVE PERFORMANCES IN ITALY

increase and decrease in attendance of live performances in Italy (difference between 2018 and 2022)



# **OPERA TODAY**



Inauguration of the 2022-2023 opera and ballet season of Teatro alla Scala, 2022





Vienna State Opera, Vienna



Palais Granier, Paris



Teatro alla Scala, Milan





Auditorium of Palais Granier, Paris



Auditorium of Teatro alla Scala, Milan





Snøhetta, Oslo Opera House (Oslo,2007)



Snøhetta, Oslo Opera House (Oslo,2007)

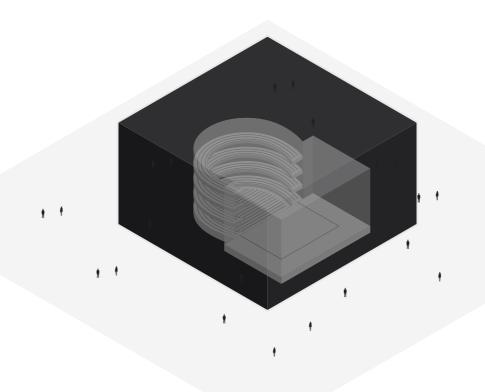


OMA, Casa da Musica (Porto, 2005)

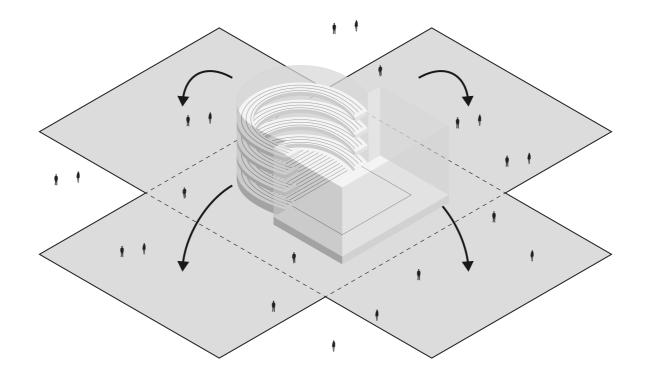


OMA, Casa da Musica (Porto, 2005)

# 'INSIDE' OPERA



# 'INSIDE-OUT' OPERA



# **WHAT IF?**



Street performance in front of Centre Pompidou, Paris





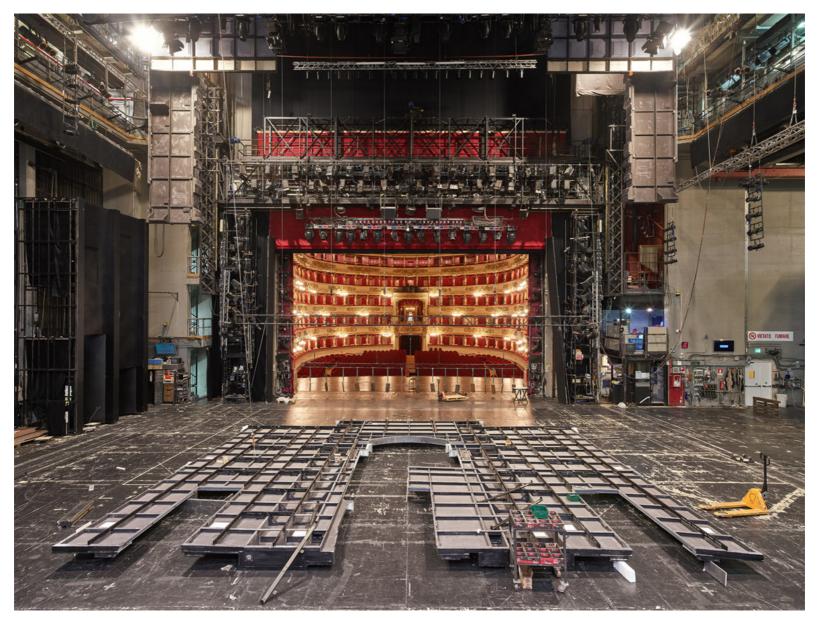






Milan Studio

Auditorium of Teatro alla Scala, Milan



Backstage of Teatro alla Scala, Milan



Auditorium of Teatro alla Scala, Milan

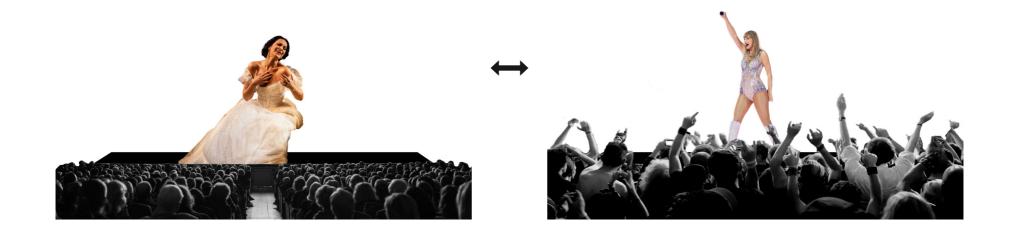


Opera Andrea Chénier, Teatro alla Scala, 2020



#### Introduction

# **OPERA AS MODERN PERFORMANCE**









#### Introduction

#### **RESEARCH QUESTION**

How can the architecture of an opera house reposition the cultural relevance of opera in contemporary society?

#### **DESIGN BRIEF**





#### **CLIENT**



#### FONDAZIONE TEATRO ALLA SCALA DI MILANO



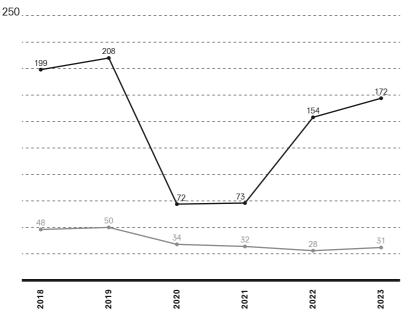
#### **CLIENT**



#### STATISTICS OF SCALA

#### **PRODUCTION AND PERFORMANCES**

Total number of productions and performances /year

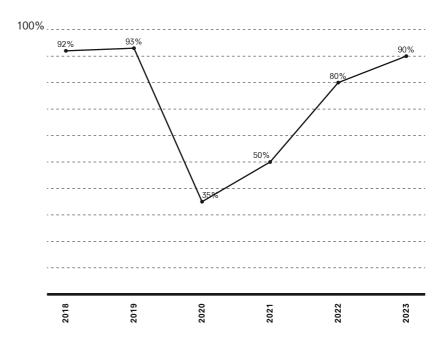


performances

— productions

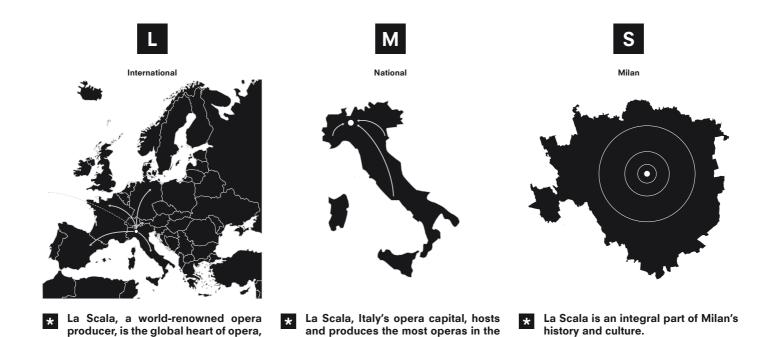
#### **OCCUPANCY RATE**

Total occupancy rate /year



Fondazione Teatro alla Scala di Milano. (2024). BILANCIO 2023.

#### THE SCALE OF SCALA



country each year.

bringing its productions worldwide.

#### **INDUSTRIES OF MILAN**

CARS



**FASHION** 



DESIGN



#### **INDUSTRIES OF MILAN**

**CARS** 







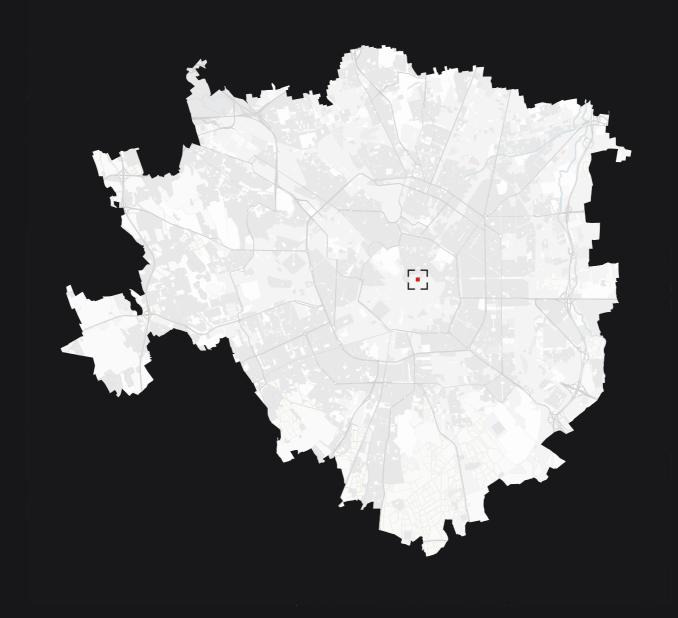
**DESIGN** 



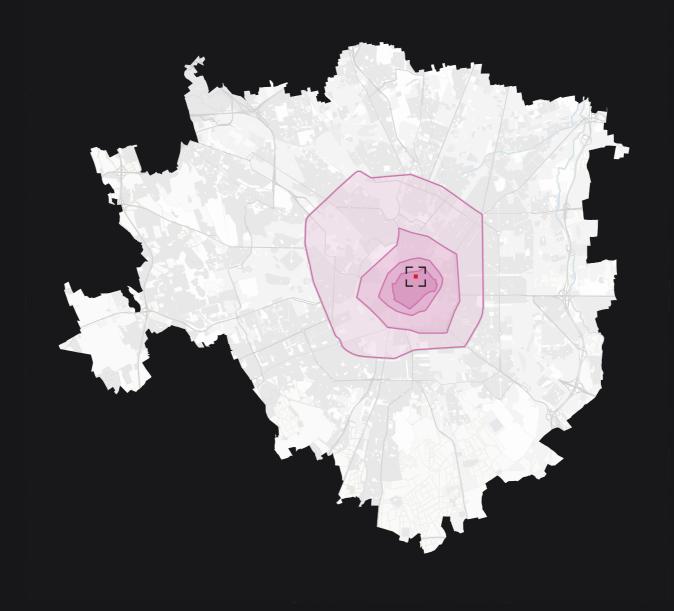
**OPERA** 



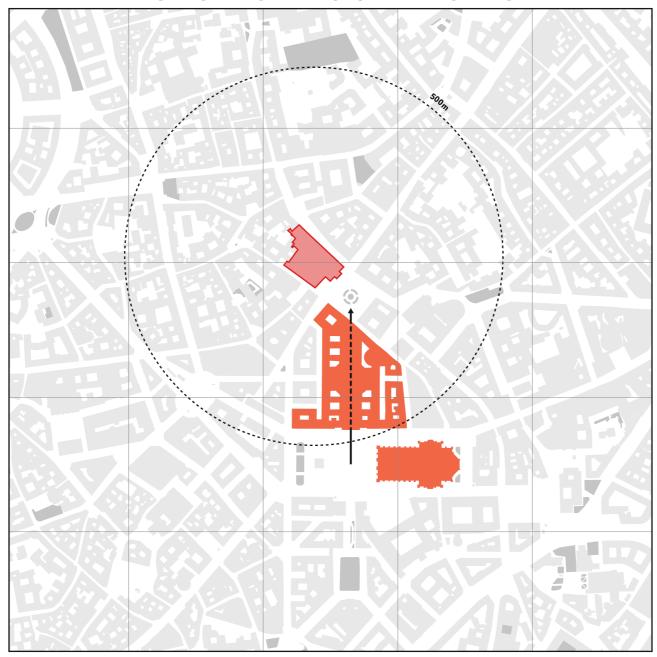
# Design brief TEATRO ALLA SCALA



# Design brief CITY CENTRE

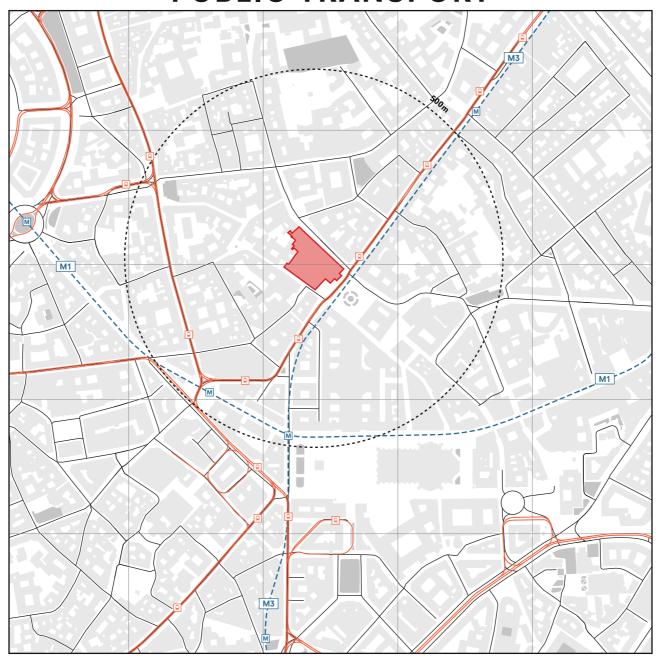


# **HISTORICAL CONNECTION**





# **PUBLIC TRANSPORT**



#### **PLOT INFORMATION**



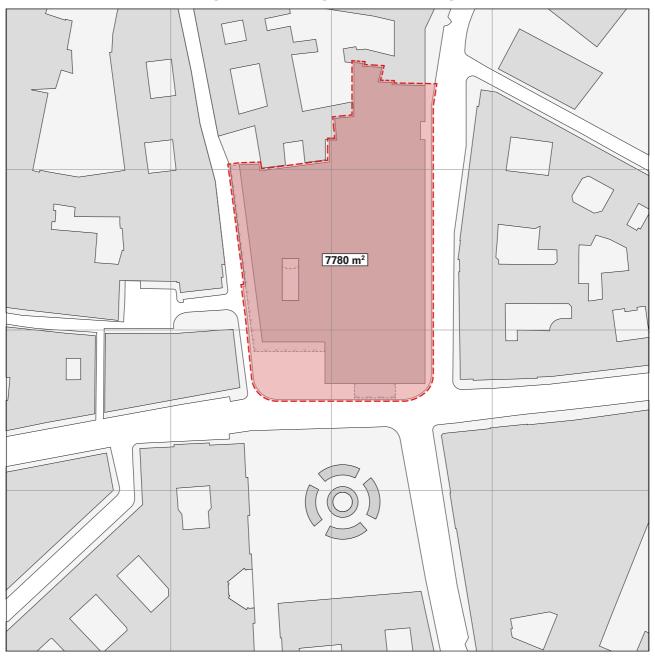
# **EXISTING ACCESSIBILTY**



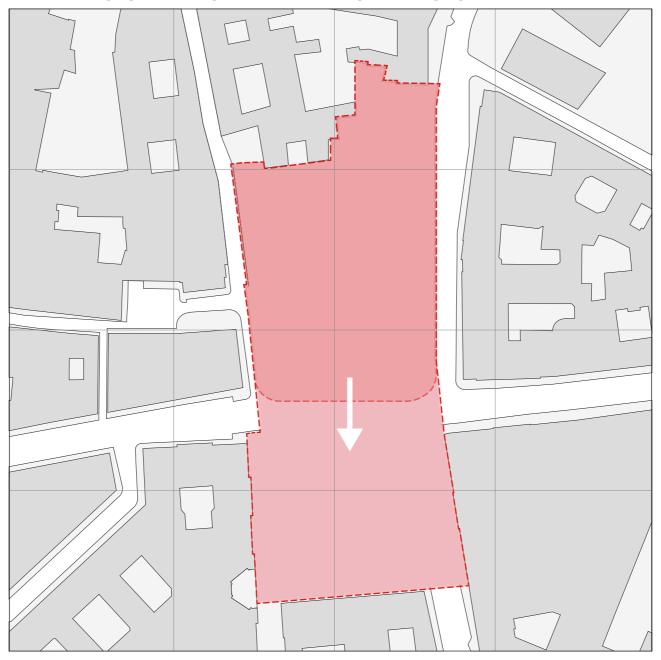
#### **PLOT INFORMATION**



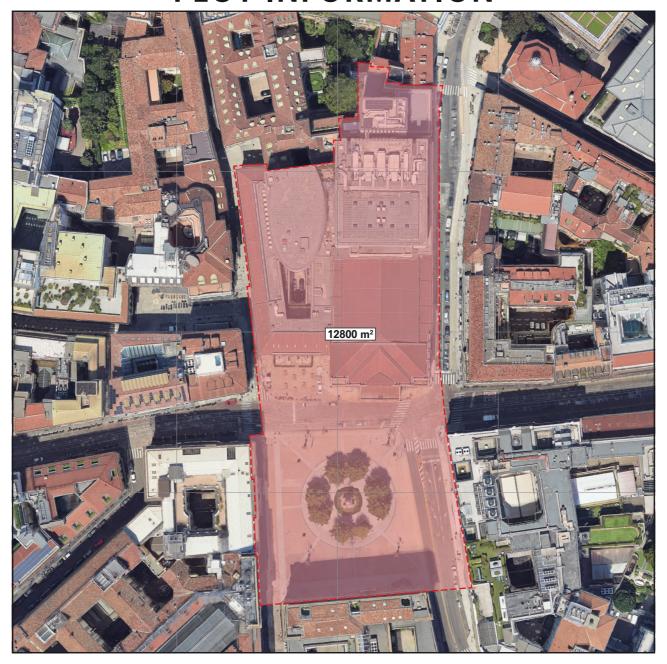
# **PLOT INFORMATION**



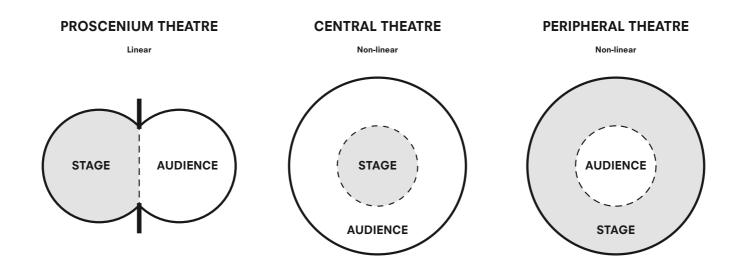
# **PUSHING THE PLOT BOUNDARY**



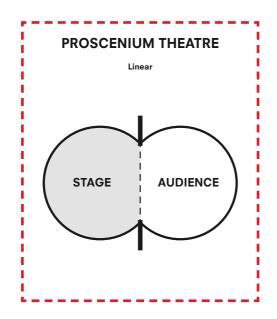
#### **PLOT INFORMATION**

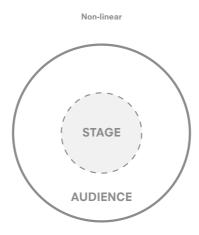


#### THEATRE CONFIGURATION

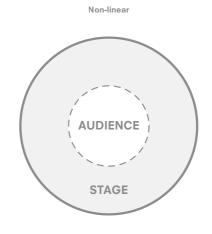


#### **OPERA CONFIGURATION**





**CENTRAL THEATRE** 



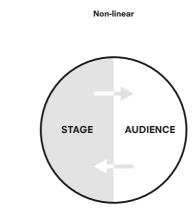
PERIPHERAL THEATRE

#### **NEW OPERA EXPERIENCE**

# TRUST STAGE Non-Linear

STAGE

AUDIENCE



**OPEN STAGE** 

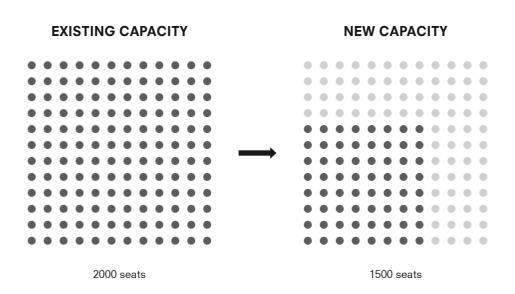


#### **NEW OPERA EXPERIENCE**



OMA, Faena Forum (Miami 2022)

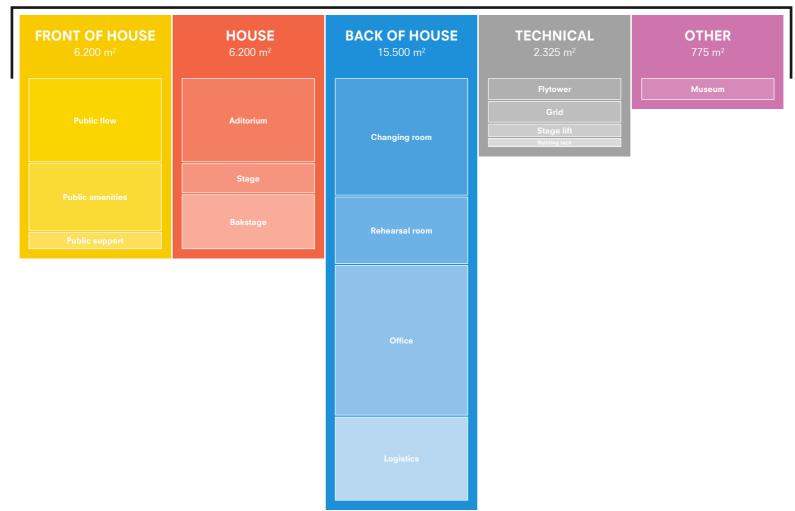
# Design brief NEW CAPACITY



#### **PROGRAM SIZE**

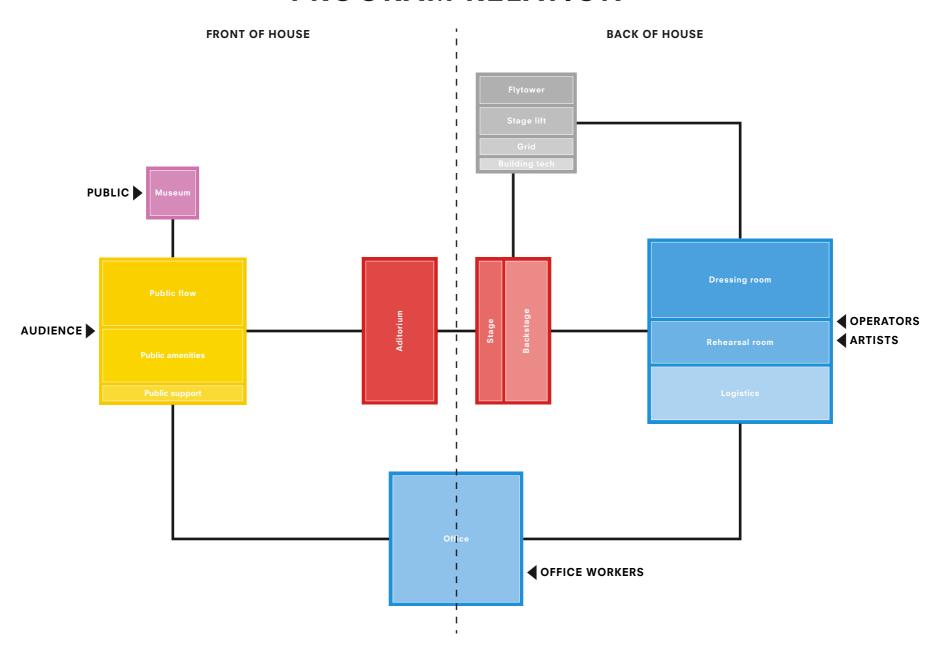
#### **TOTAL SIZE**

31.000 m<sup>2</sup>



### Design brief

# **PROGRAM RELATION**

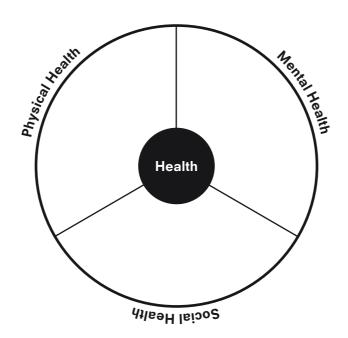








# Design brief **HEALTH**

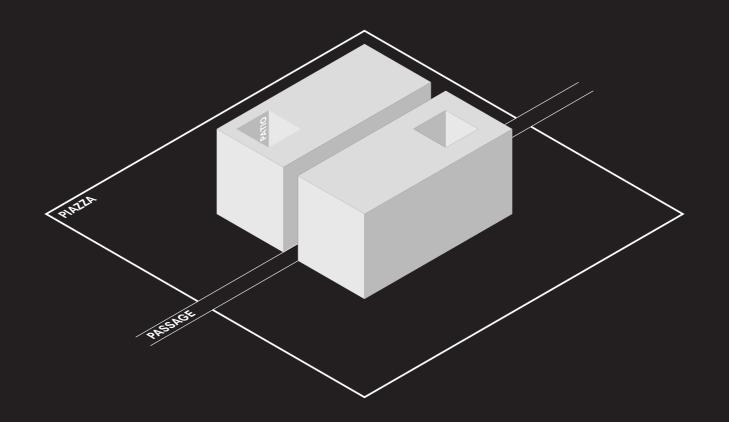


"HEALTH IS A STATE OF COMPLETE PHYSICAL, MENTAL, AND SOCIAL WELL-BEING."

#### Design brief

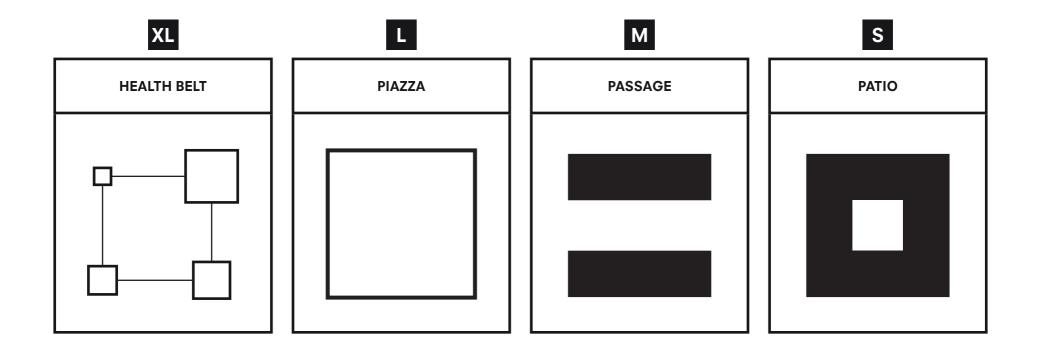
## **HEALTH AND SPATIAL CONTEXT**

"How can the design and planning of public spaces in Milan be optimised to enhance physical and mental health for its residents?"

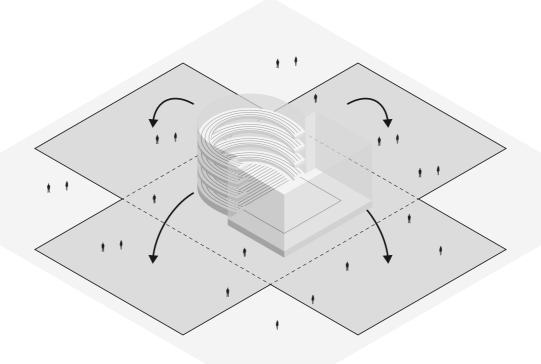


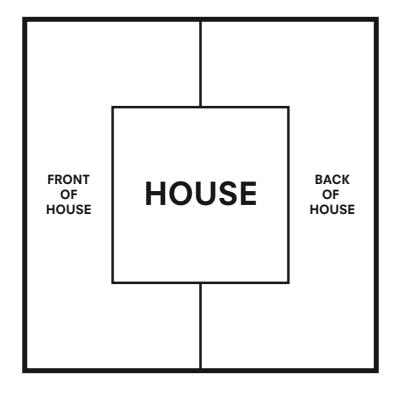
### Design brief

# **DESIGN IMPLEMENTATIONS**



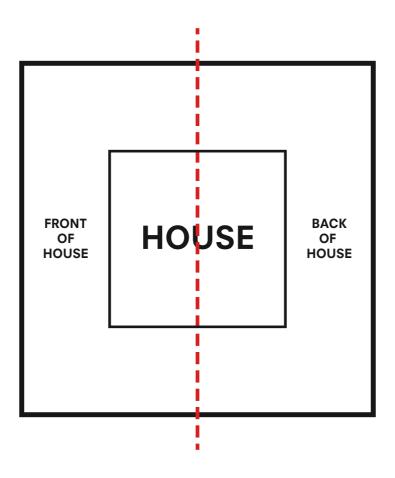
## **CONCEPT**





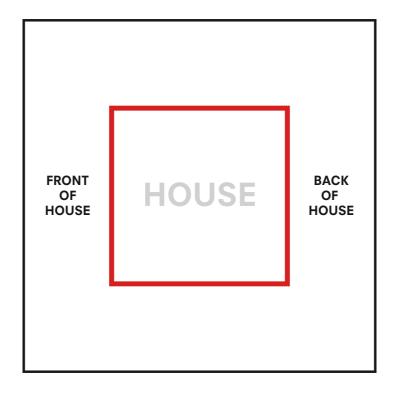
#### **TYPICAL THEATRE**

the programme organisation characteristic of conventional theatres



#### **TYPICAL THEATRE**

create a separation between front-of-house and back-of-house (public and non-public)

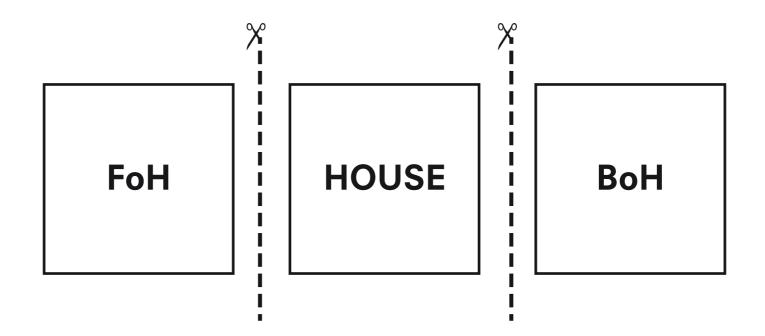


#### **TYPICAL THEATRE**

it hides the core programme from the outside

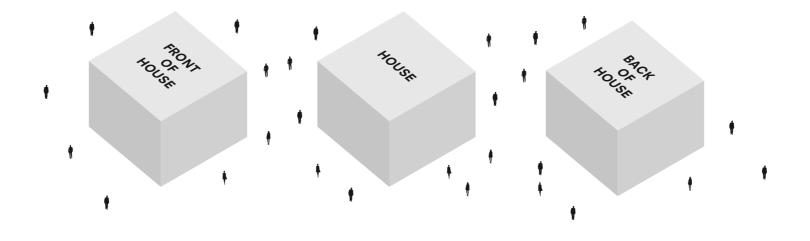
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							

#### THEATRE PROGRAM TIMETABLE



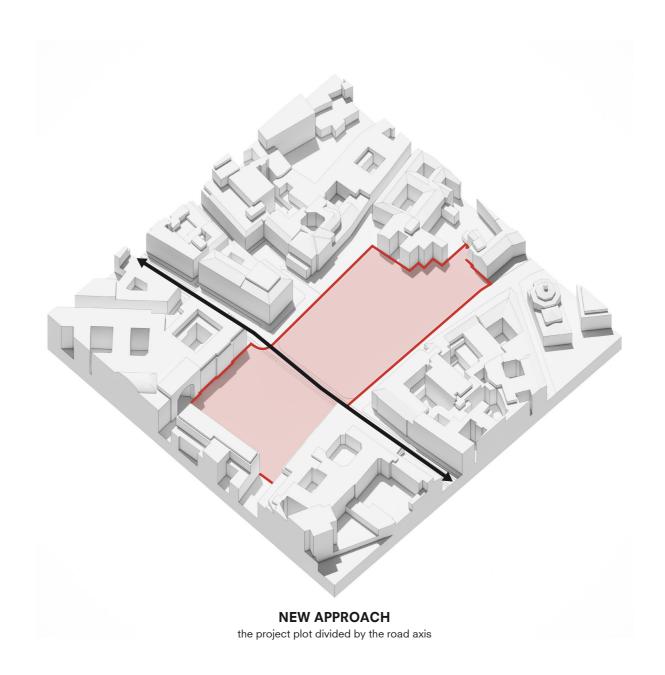
#### **NEW APPROACH**

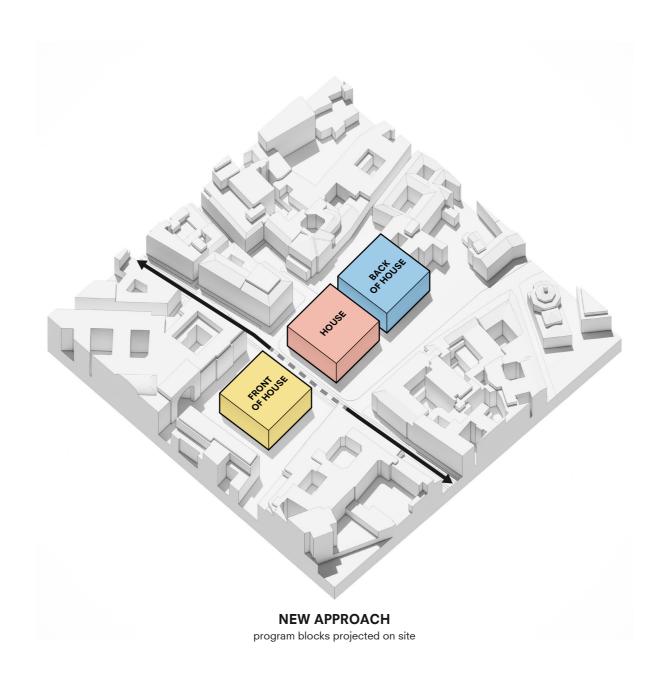
'cutting up' the programme



#### **NEW APPROACH**

to engage the public space inside the theatre

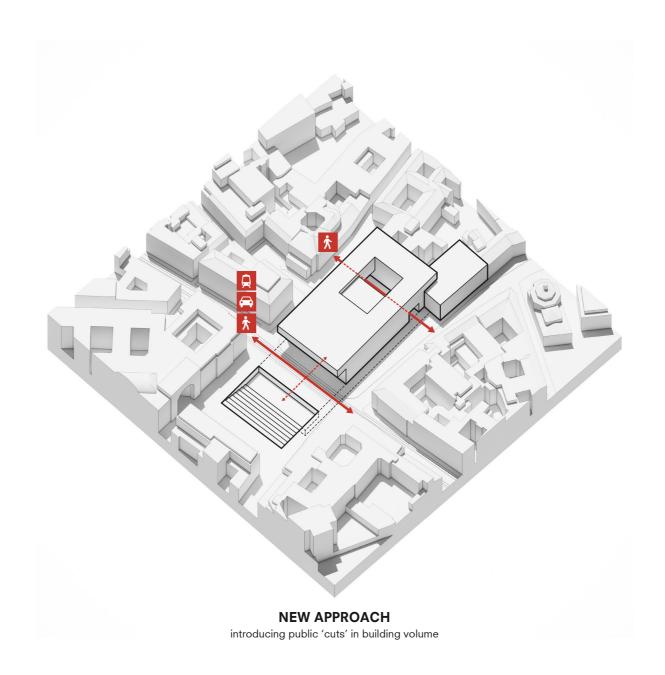


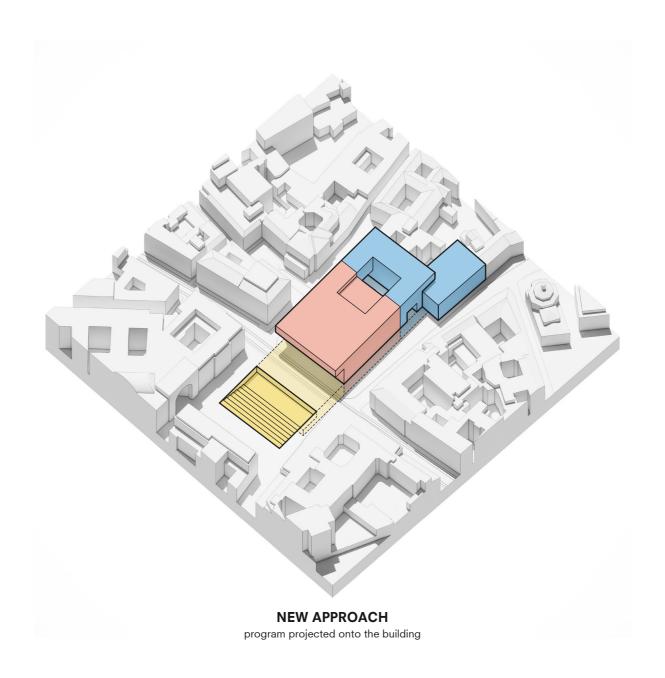






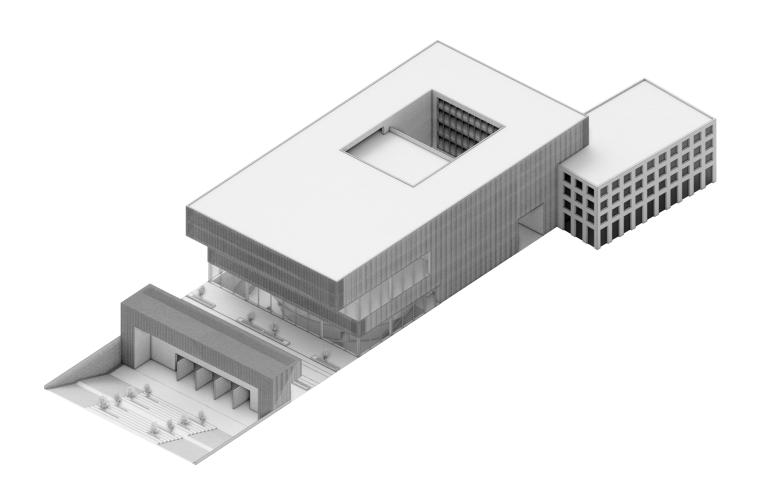


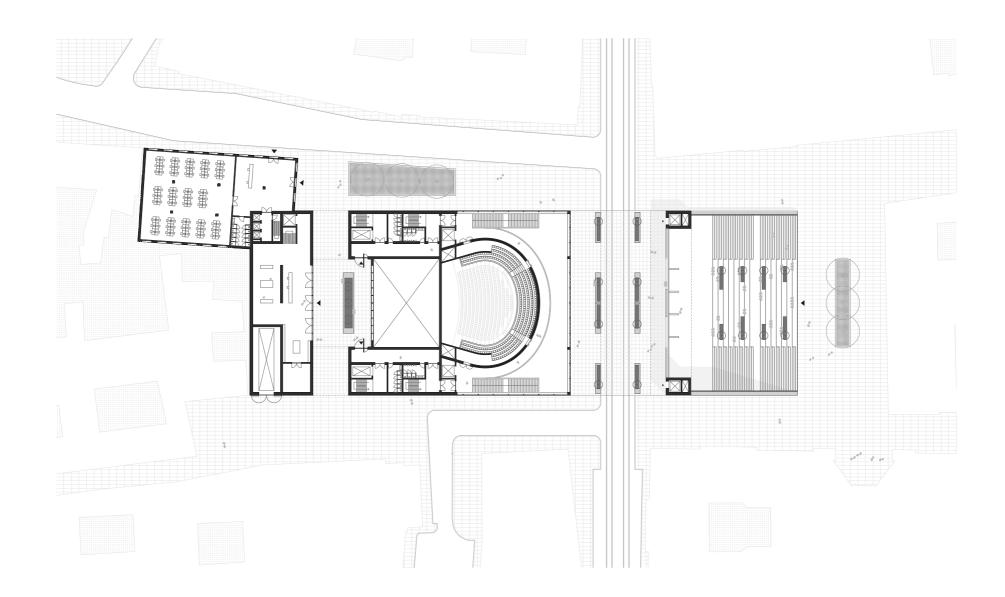


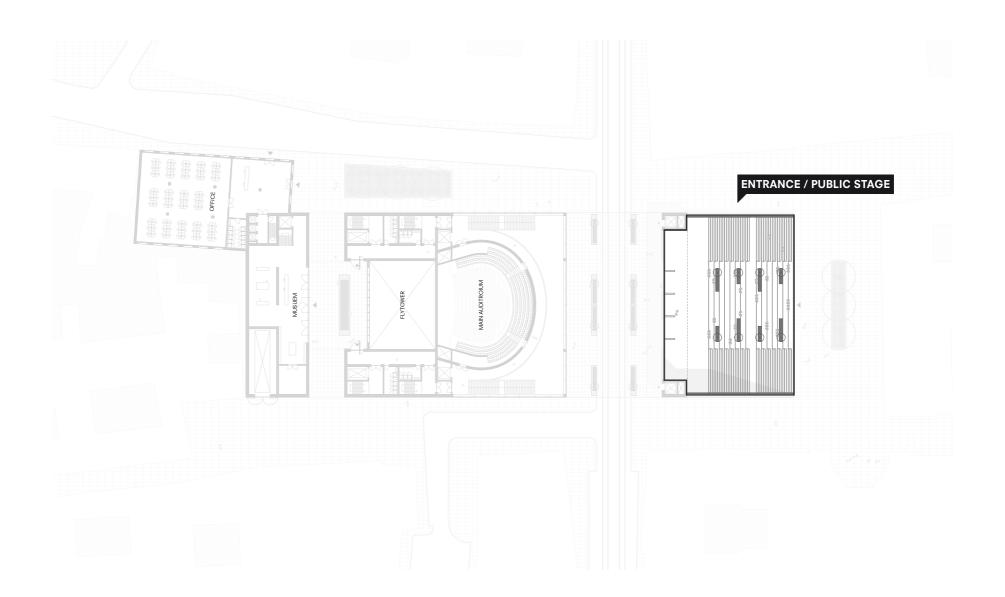


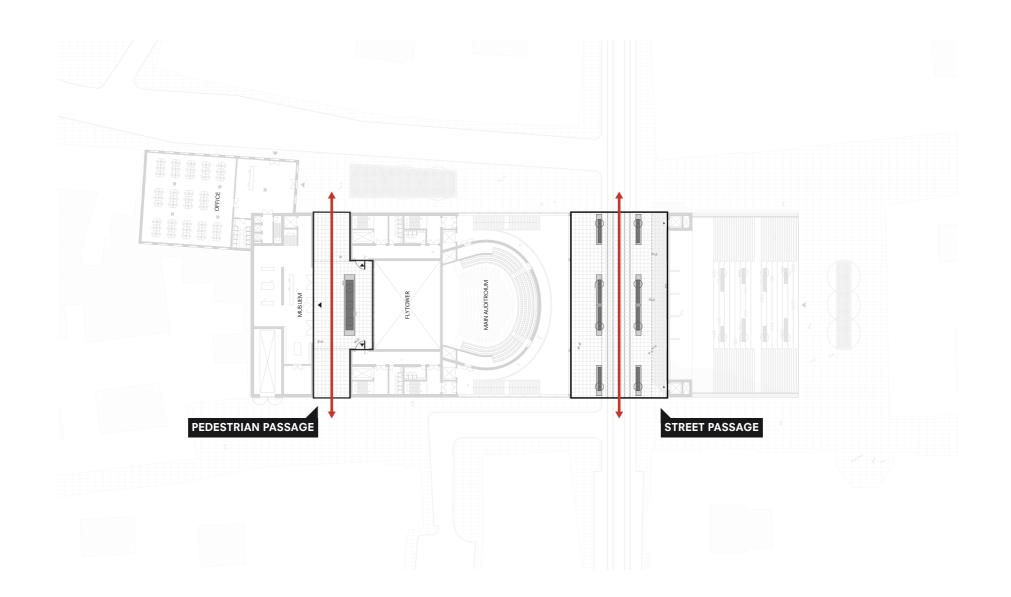
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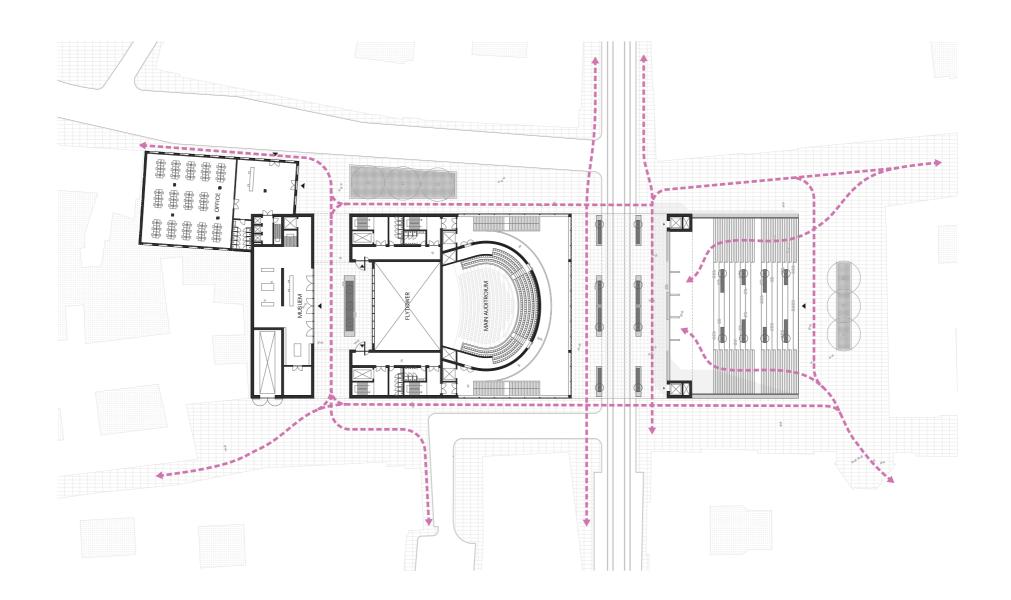
## **IMPLEMENTATION**

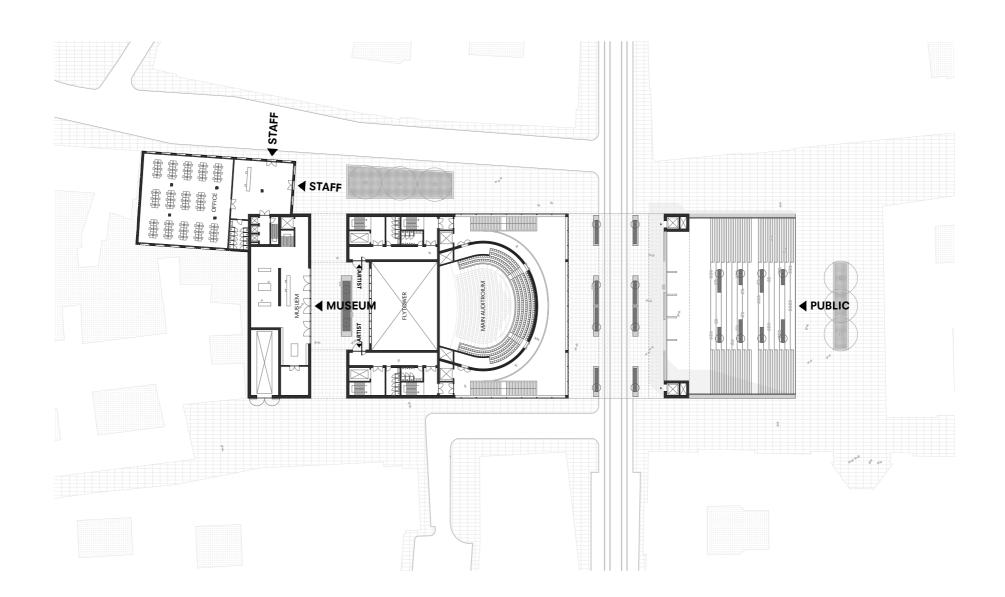


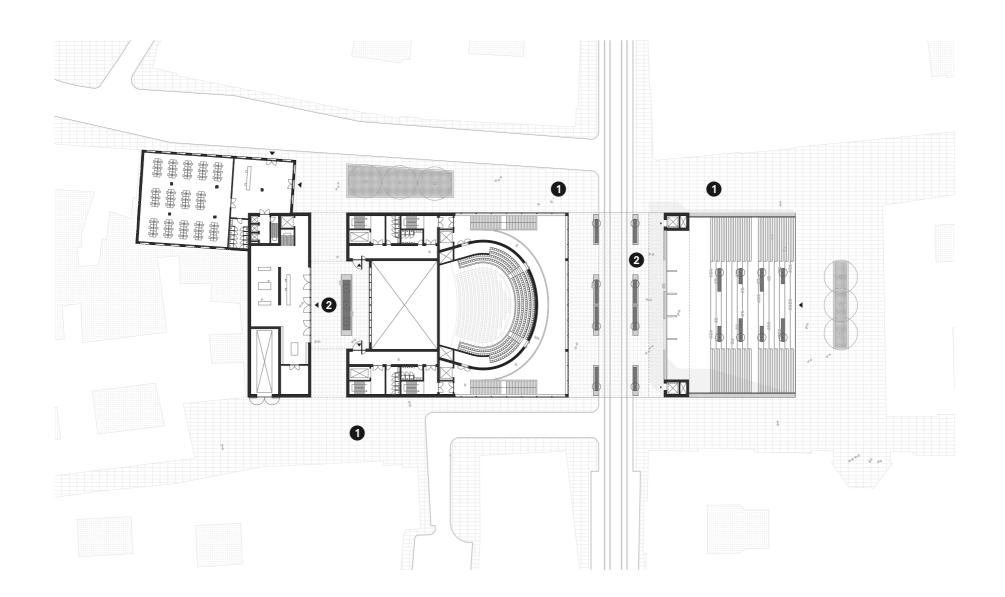










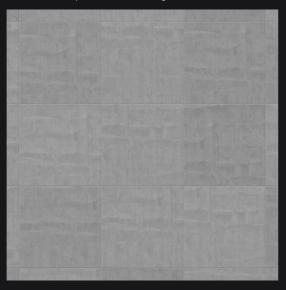


# Implementation MATERIALS

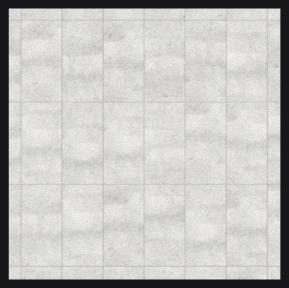
#### **POLISHED CONCRETE TILES**

#### WHITE MONTORFANO GRANITE

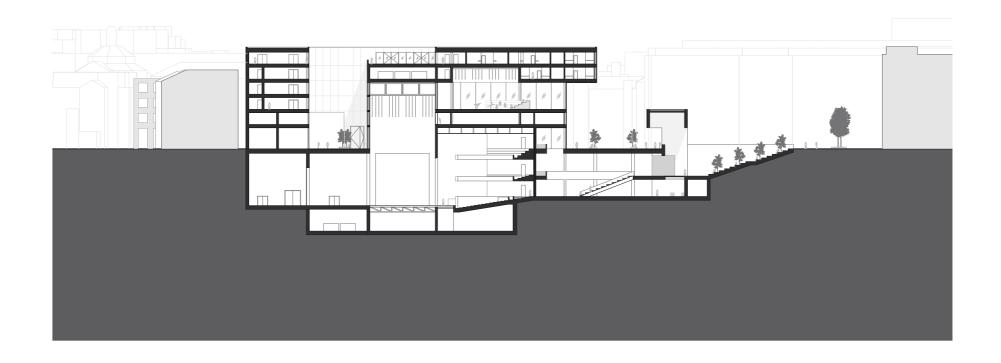
pavement within building boundaries



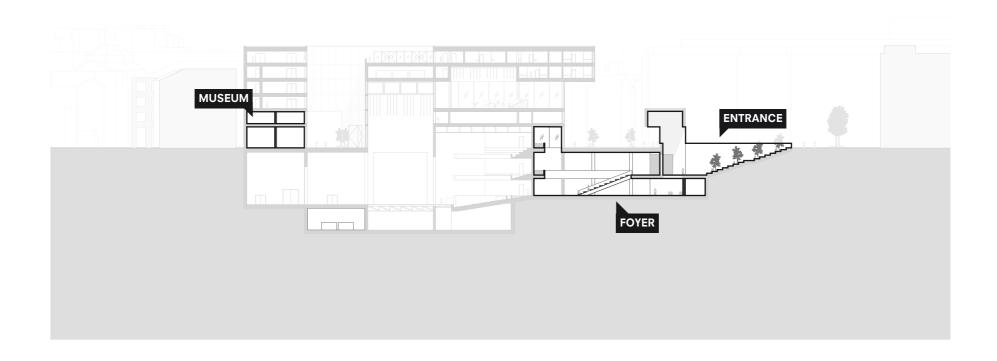




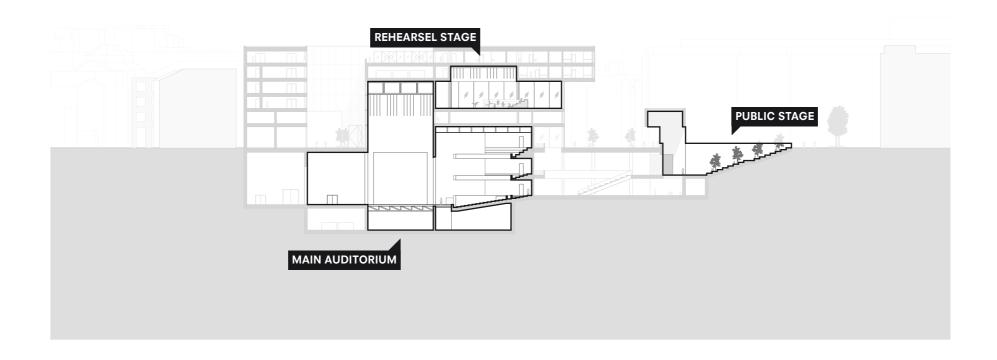




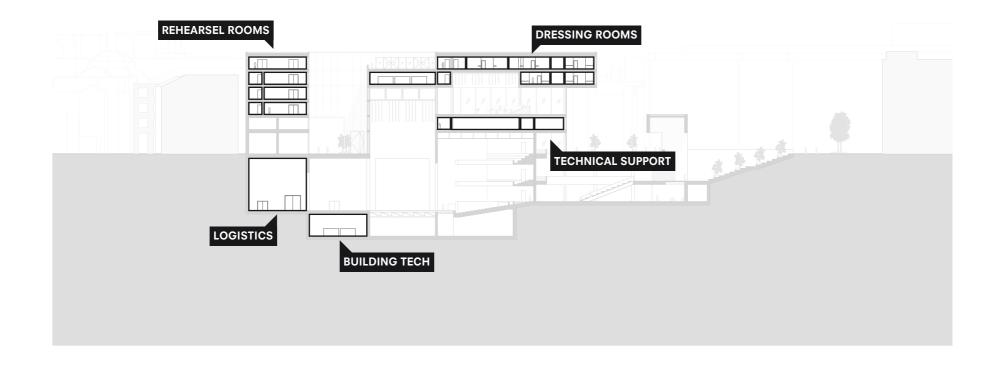








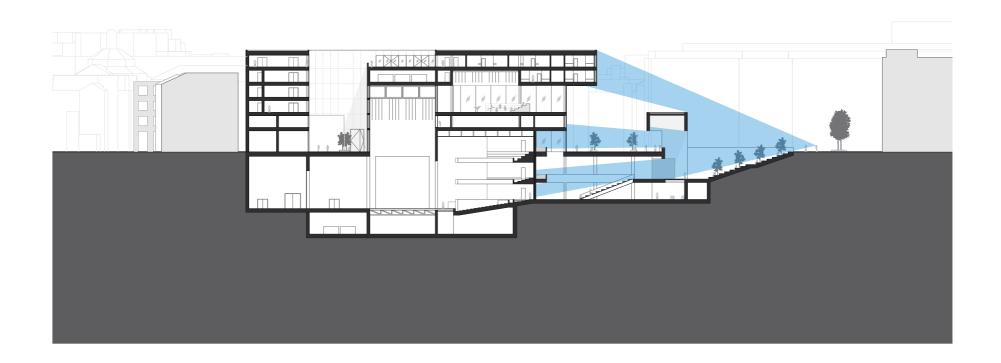






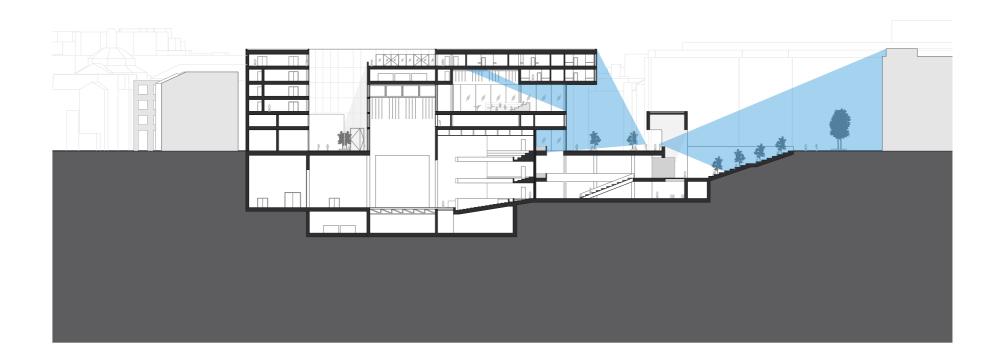








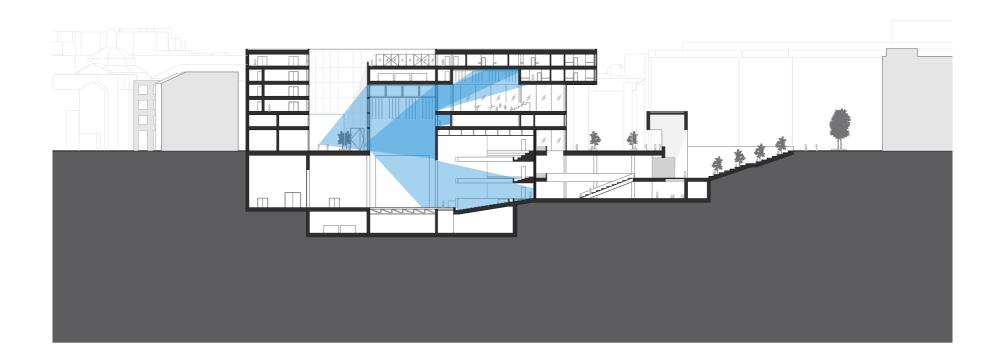


















# Implementation MATERIALS

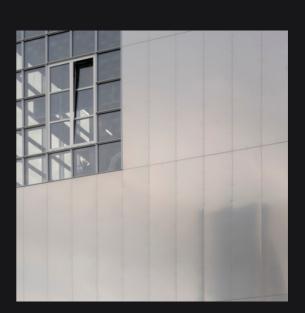
**CERAMIC SQUARE SLABS** 



**POLISHED ALUMINIUM** 





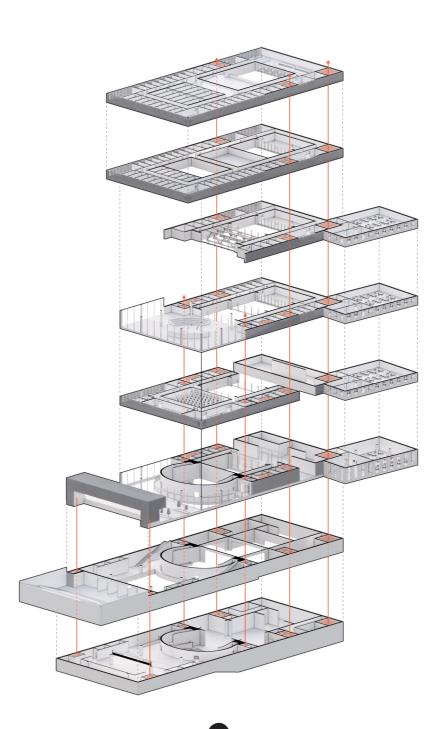


L+5
dressing rooms
staff kitchen
staff & artist bar + canteen

L+3 office rehearsel rooms

L+1 museum office technical support storrage

**L-1**entrance
foyer
main auditorium

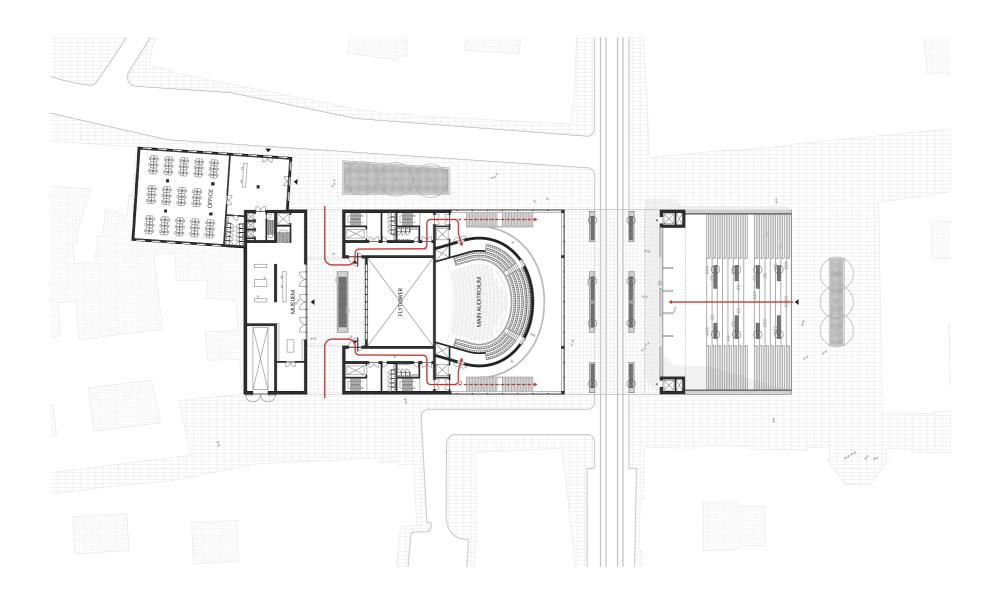


L+4
rehearsel rooms
dressing rooms

L+2
rehearsel stage
office
rehearsel rooms
dressing rooms

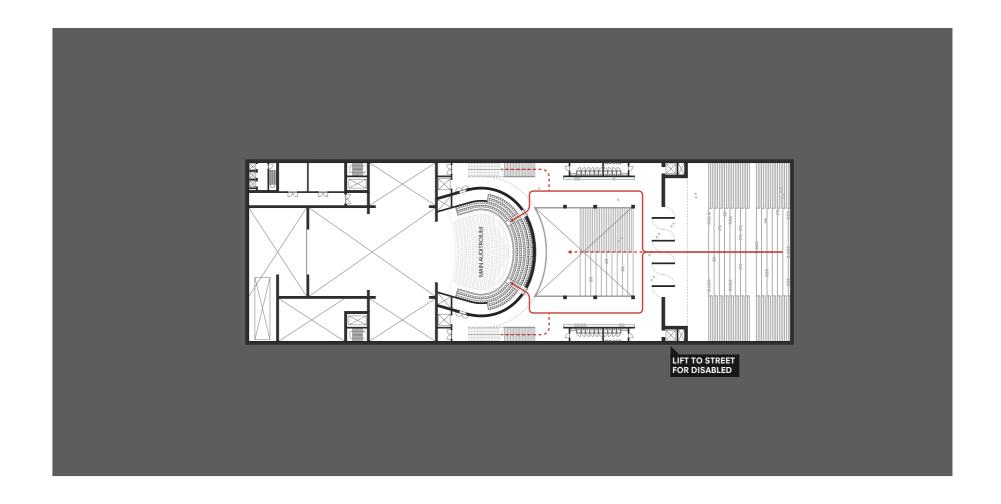
L+0 main auditroium museum office

L-2 foyer cloakroom bar main auditorium logistics

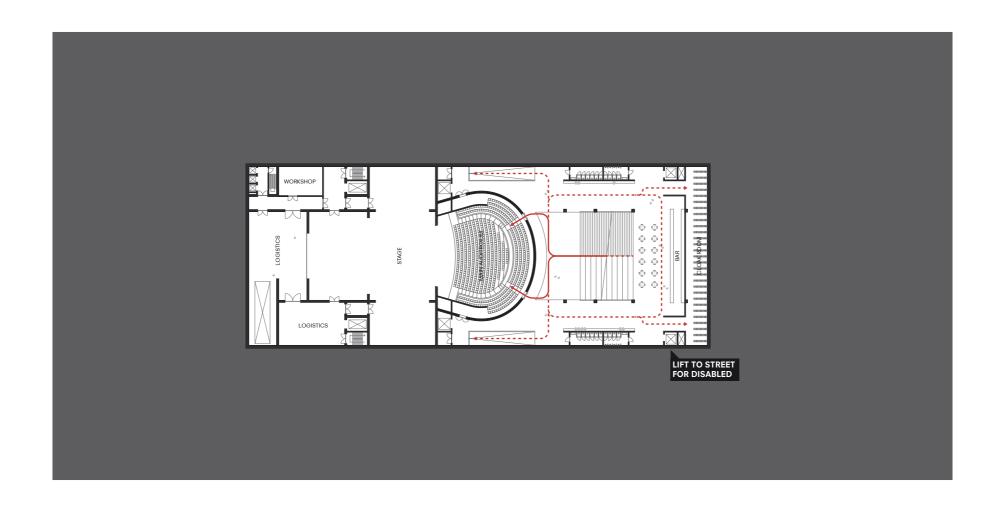




### L-1











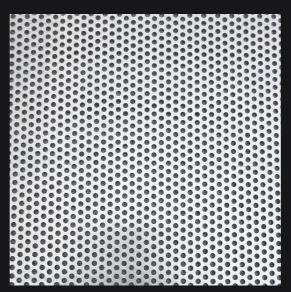
# **MATERIALS**

**CONCRETE WALLS & FLOOR** 

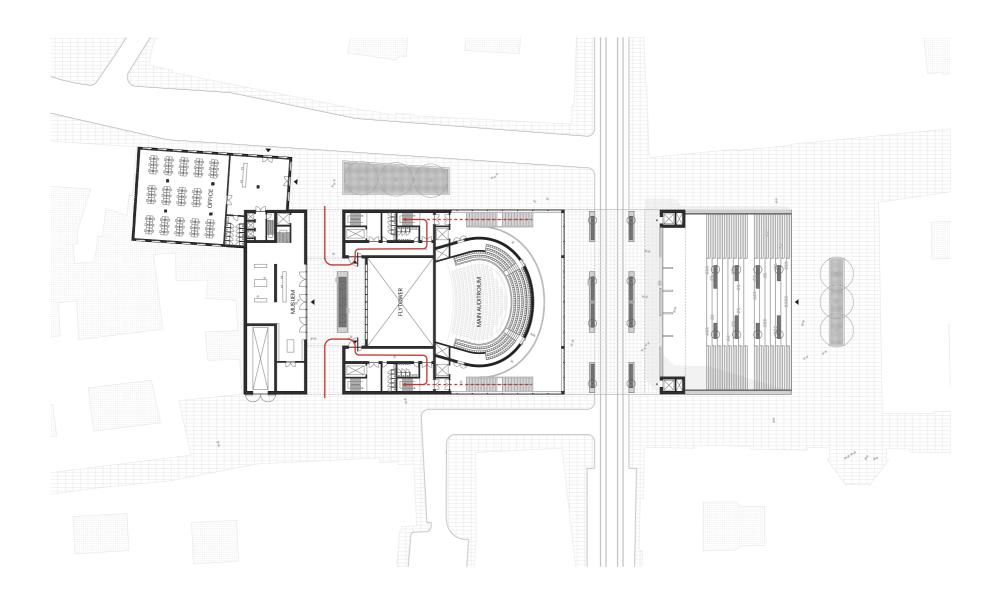
POLISHED ALUMINIUM PERFORATED

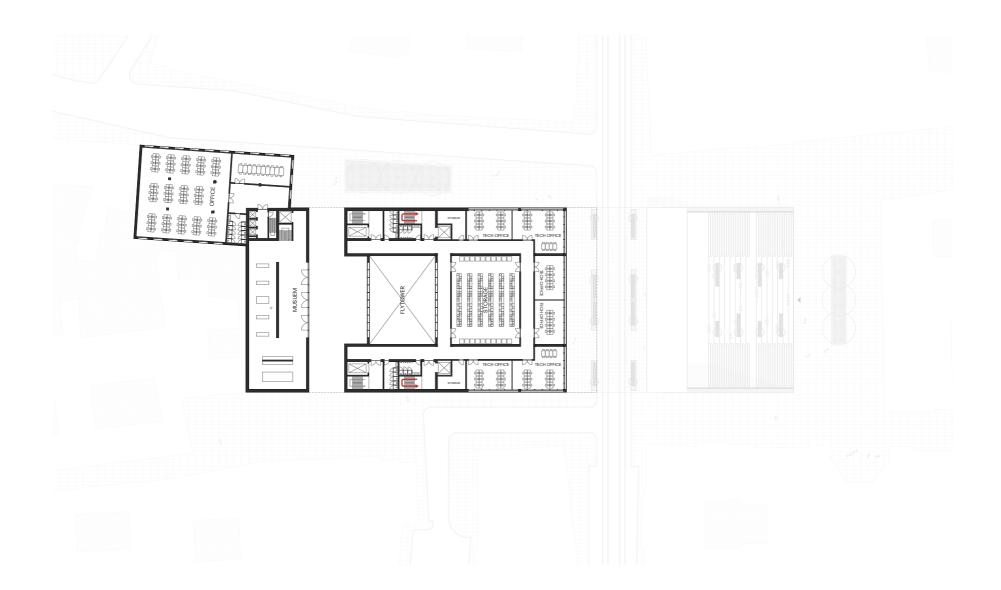
**GRAY-VEINED WHITE MARBLE** 

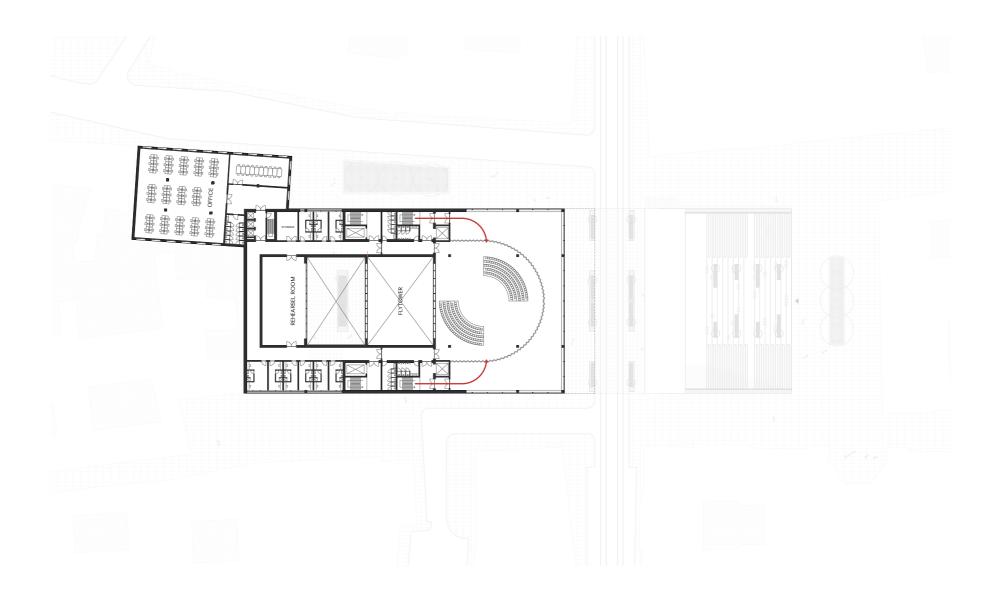














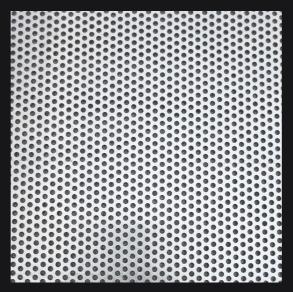
# Implementation MATERIALS

**CONCRETE WALLS & FLOOR** 

POLISHED ALUMINIUM PERFORATED

**CURTAINS** 



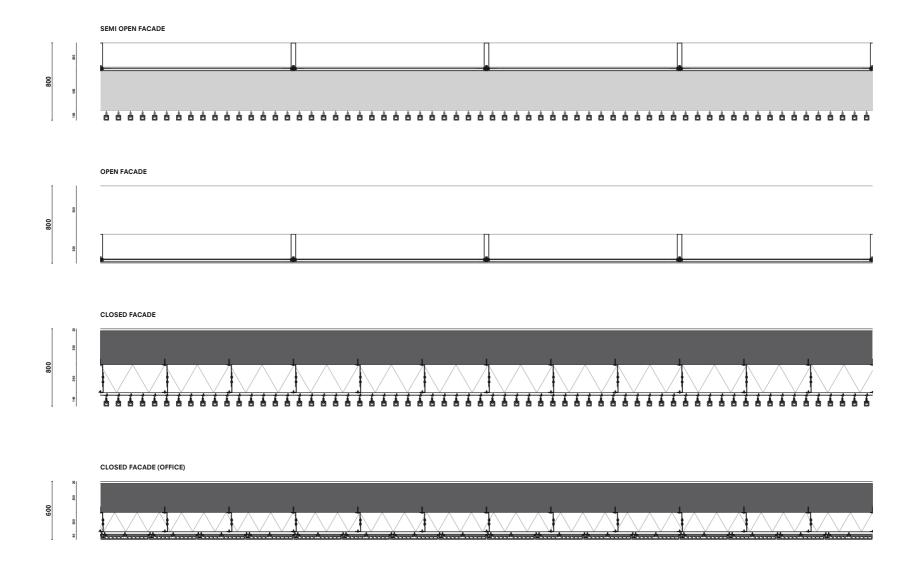




#### **DEVELOPMENT**



## **FACADE**

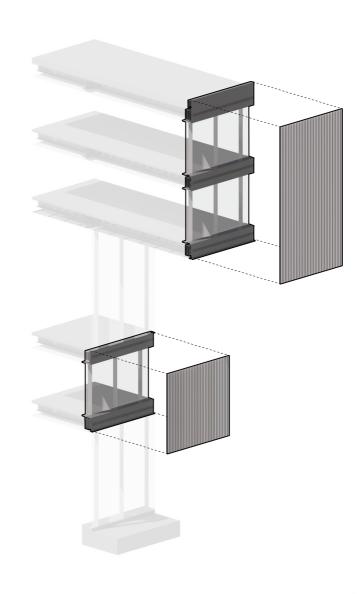


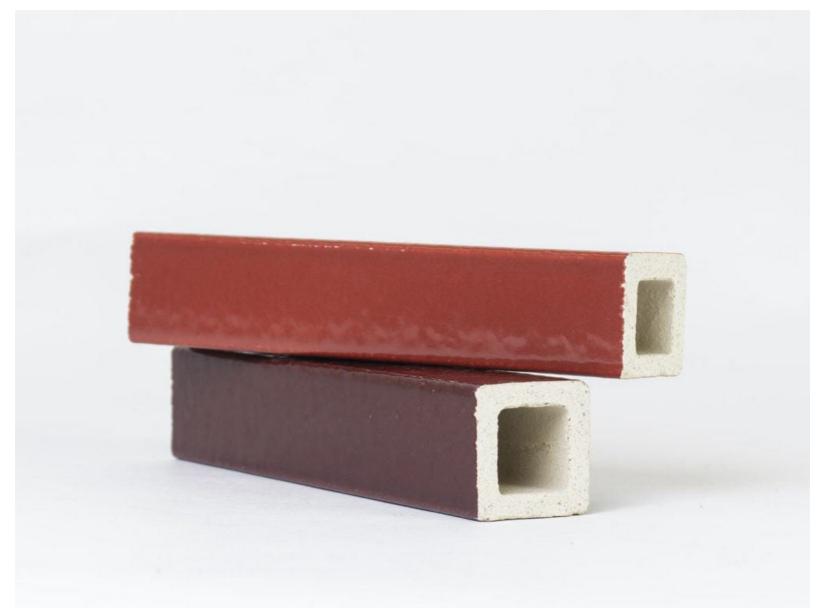
## **FACADE**









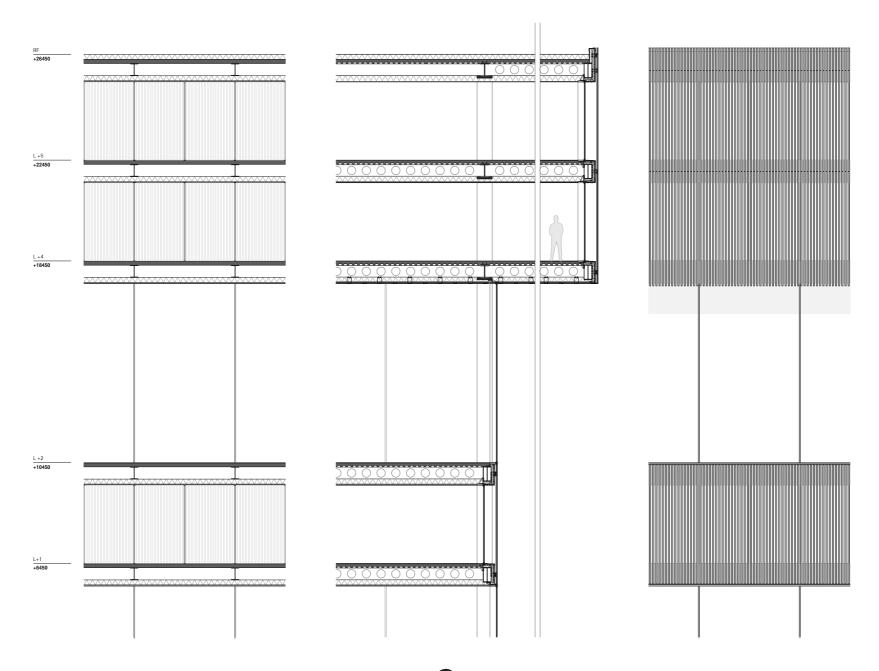


TERRART®-BAGUETTE, NBK

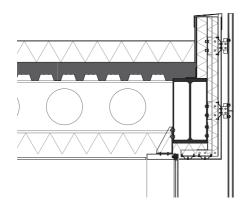


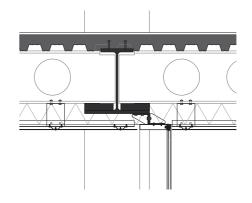
Tingbjerg Library, Cobe, Copenhagen Denmark

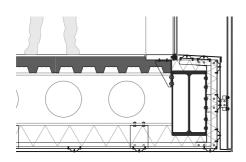
## **FACADE**

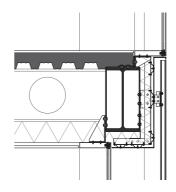


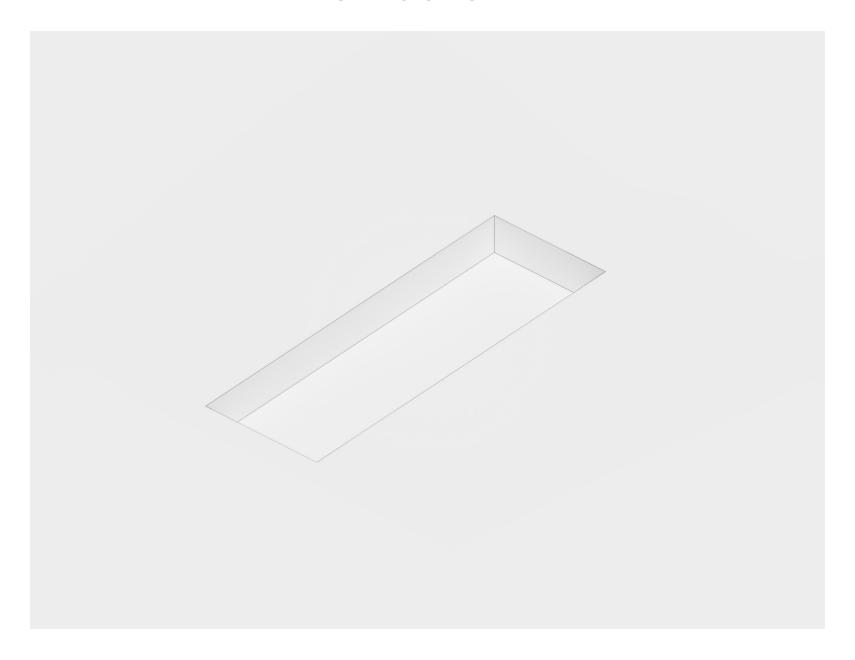
## **DETAIL**

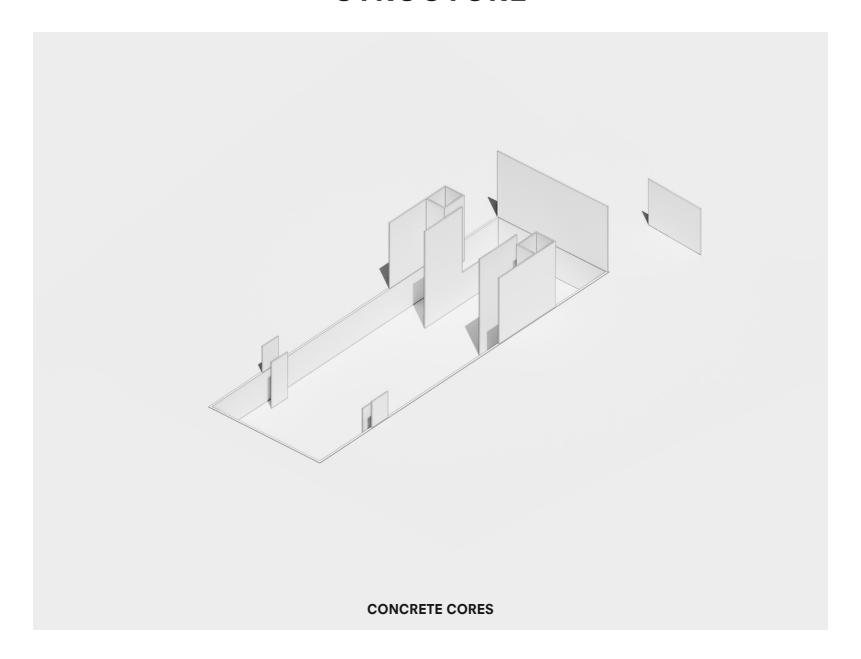


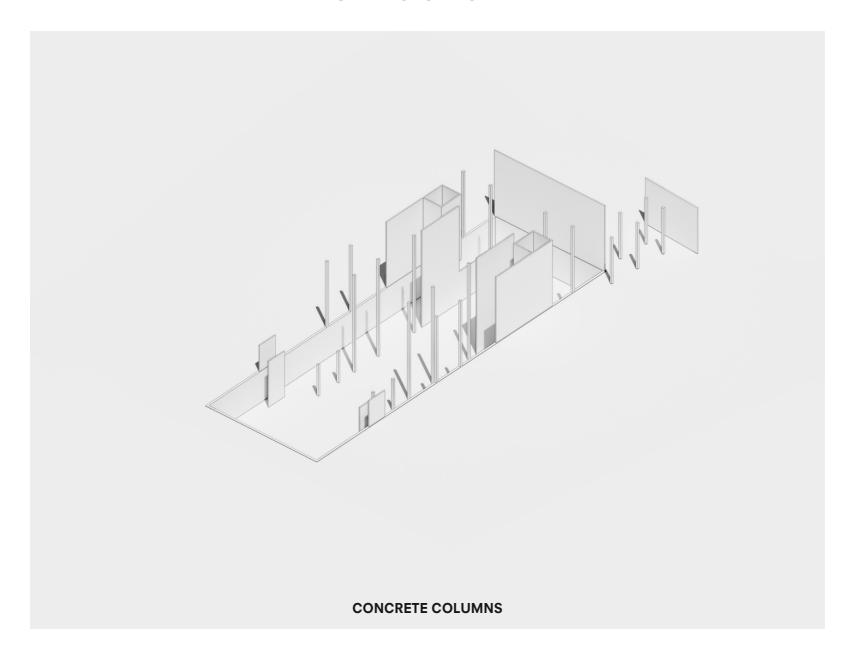


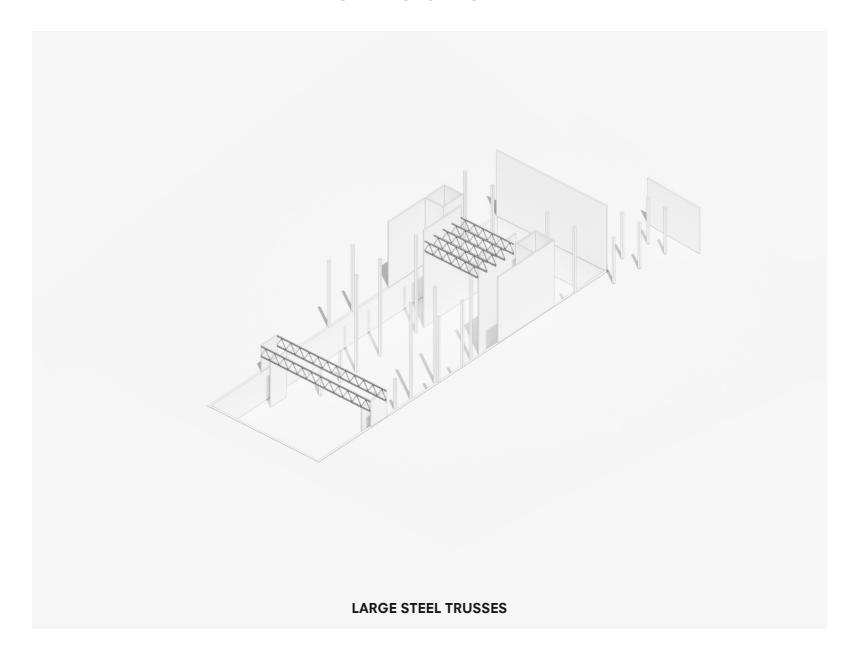


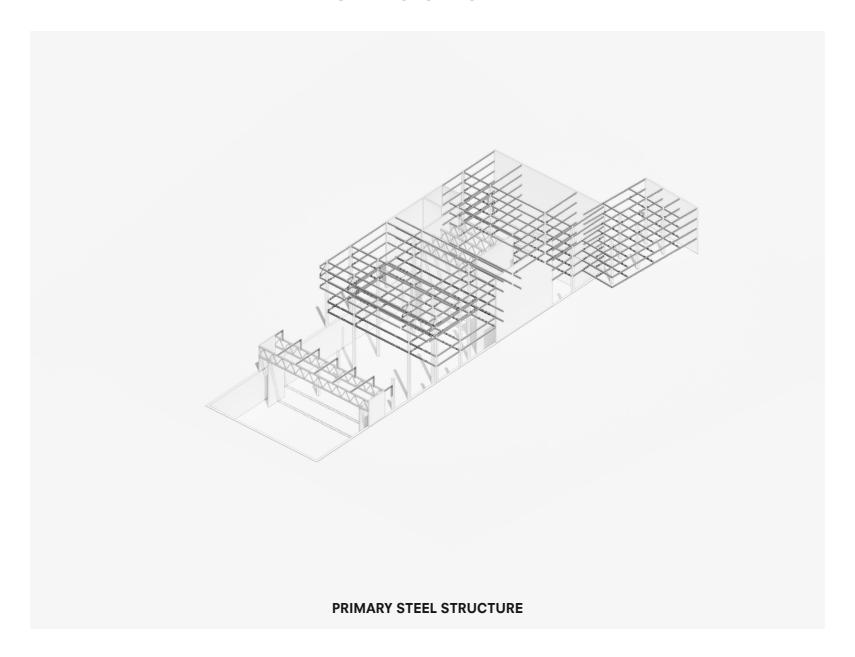


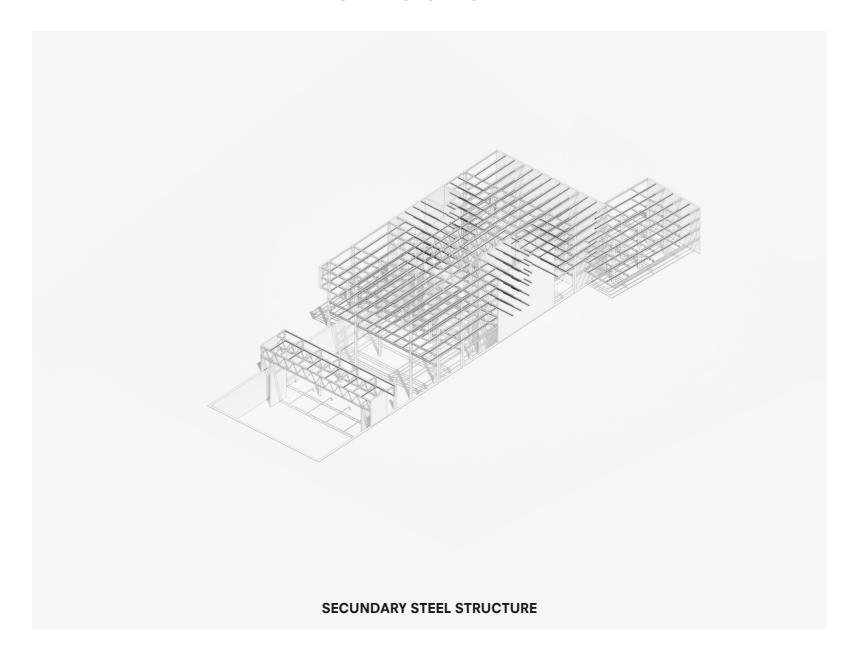


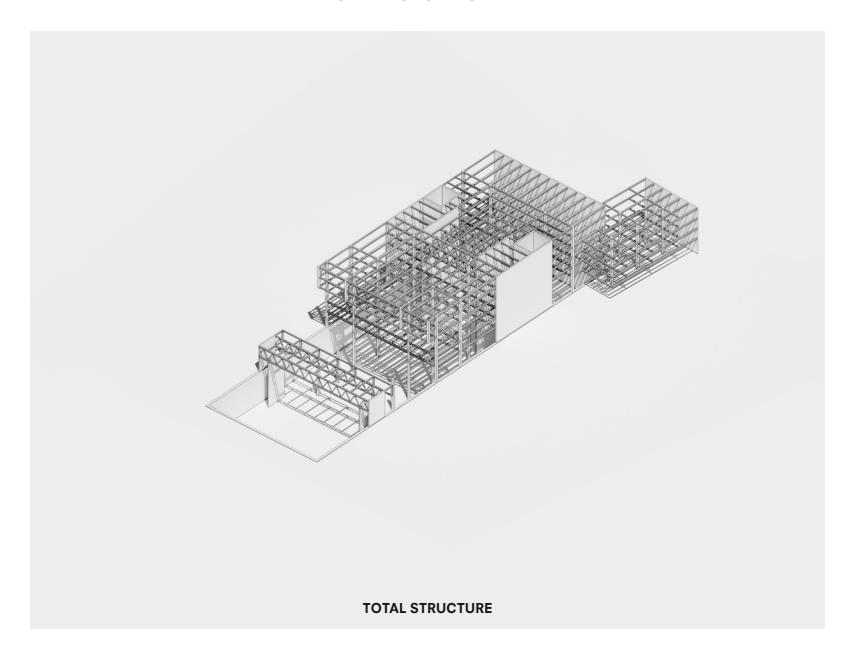


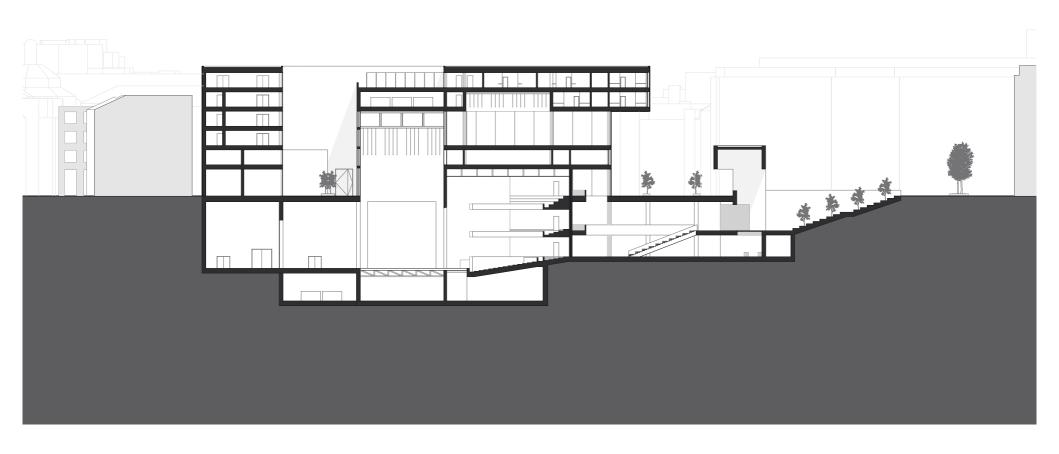


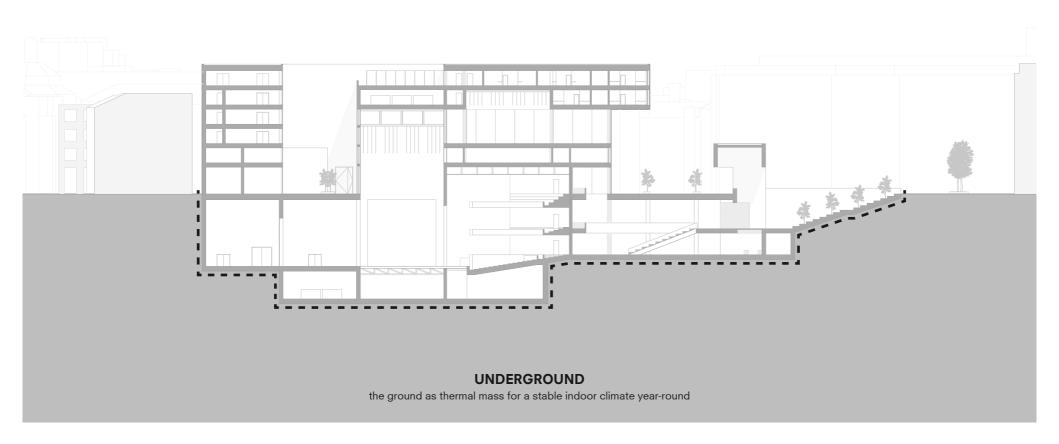




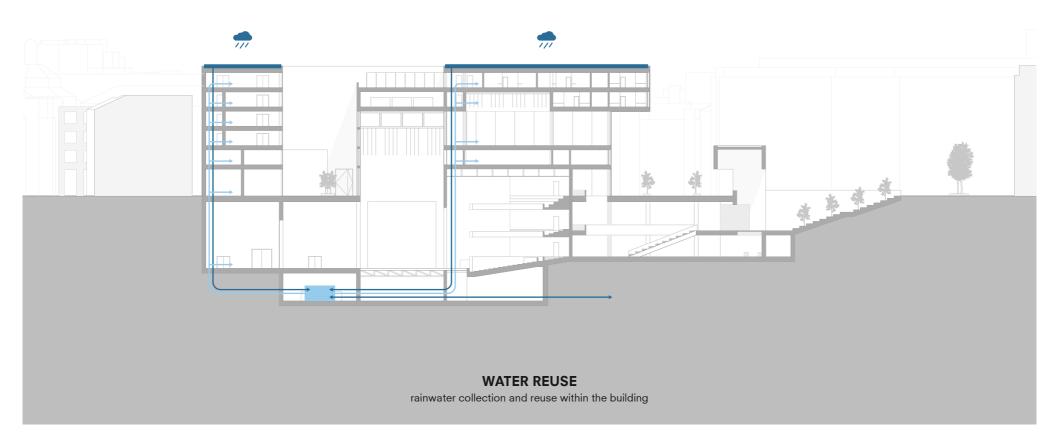




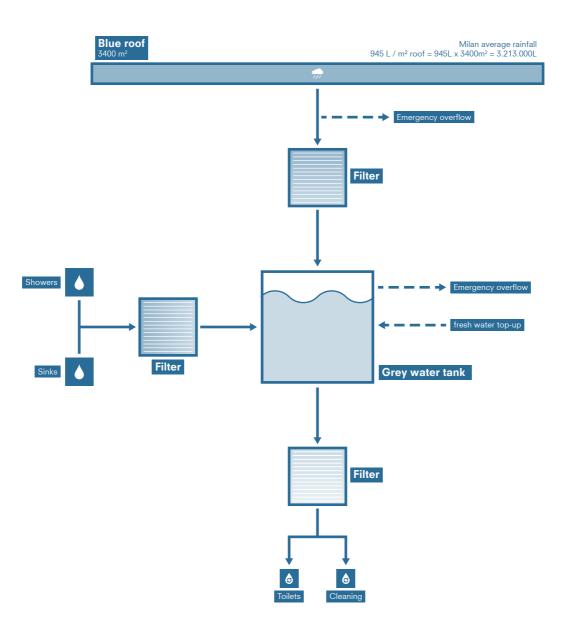


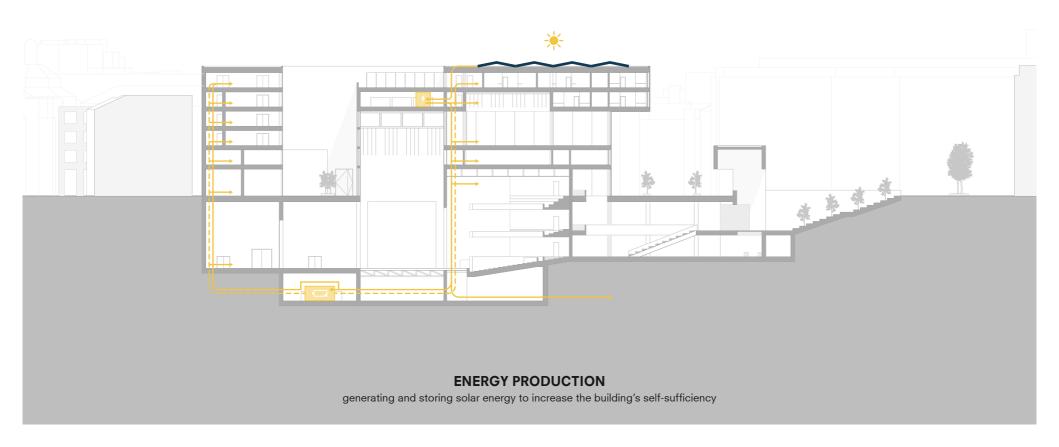




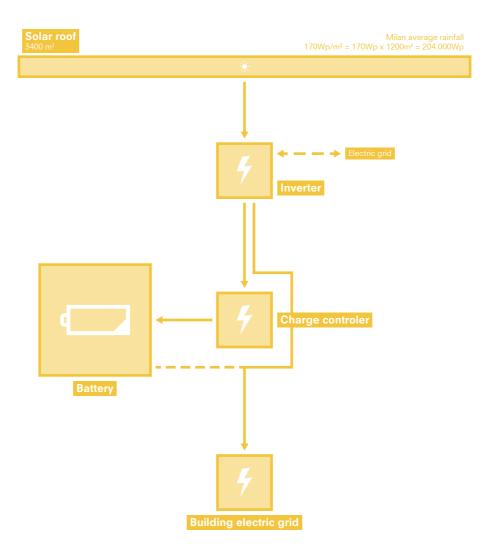


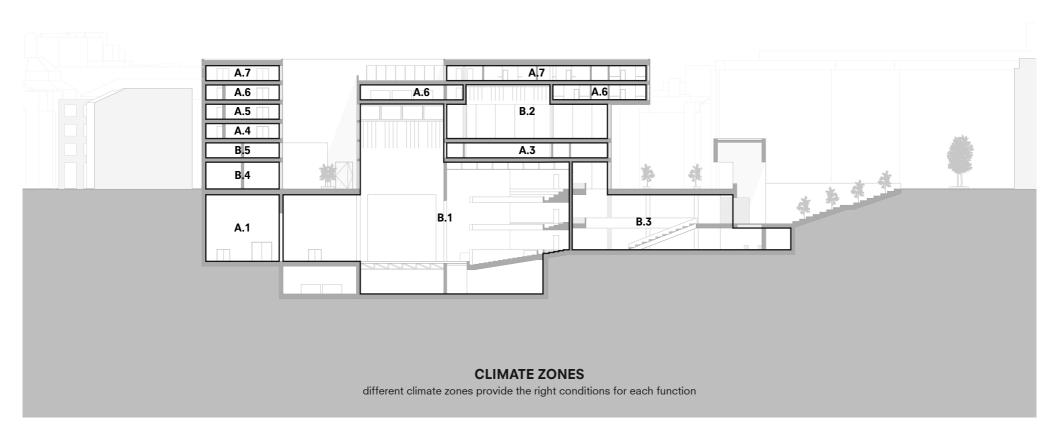
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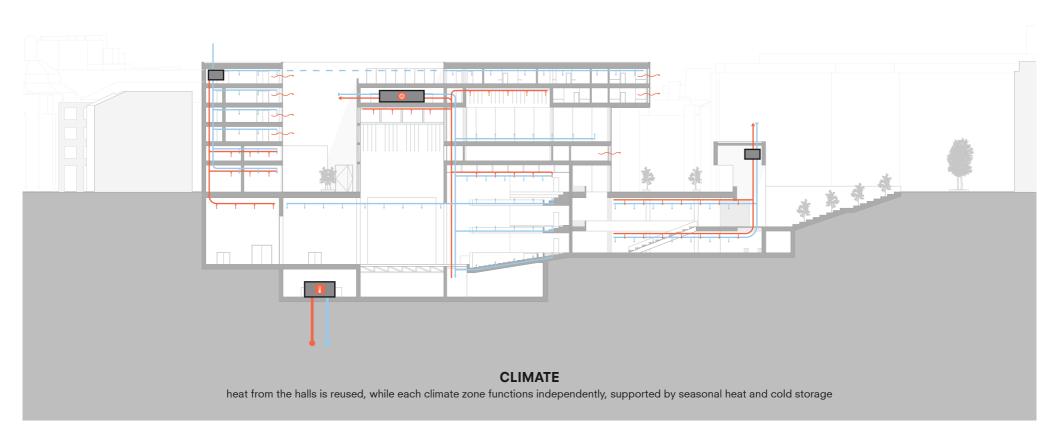




## **ENERGY SYSTEM**



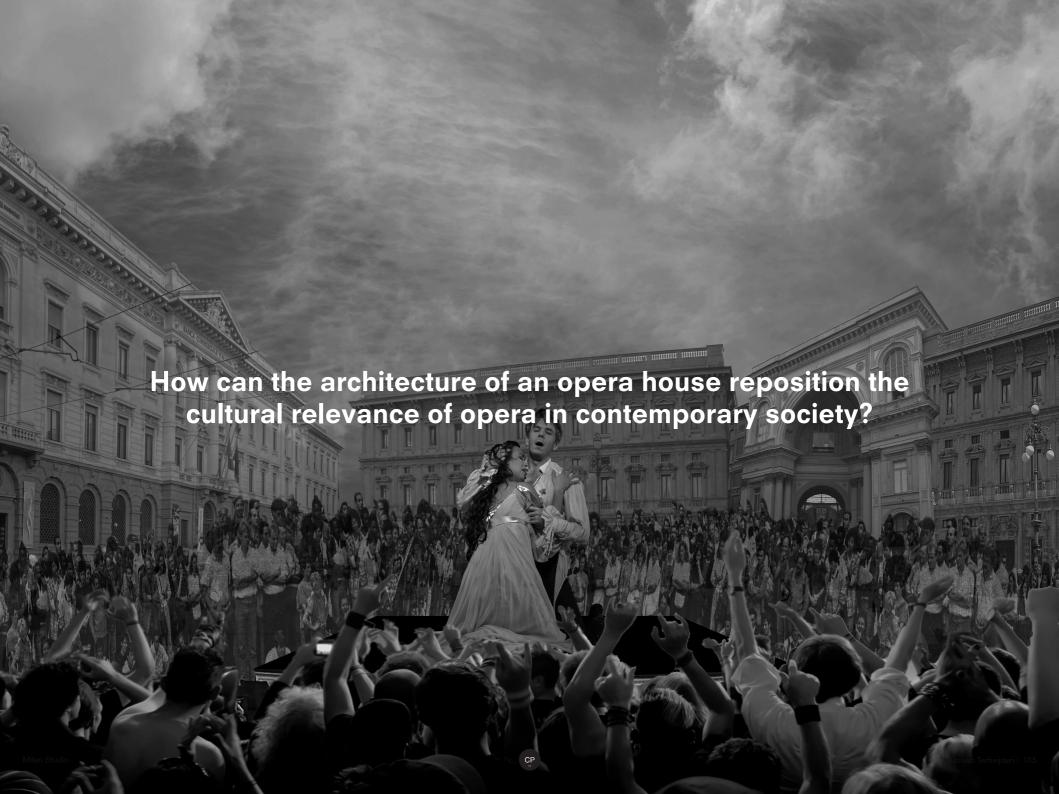


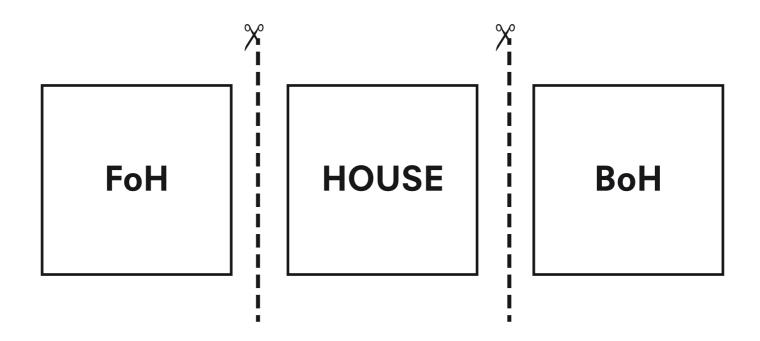


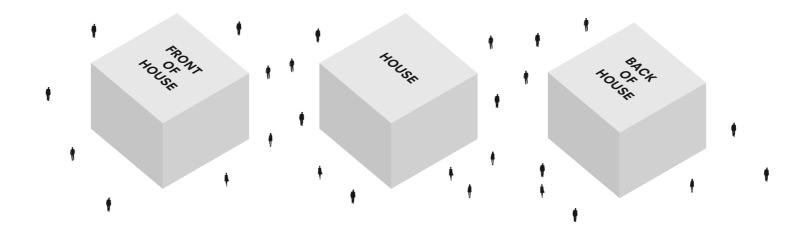
Youp van Terheijden | 160

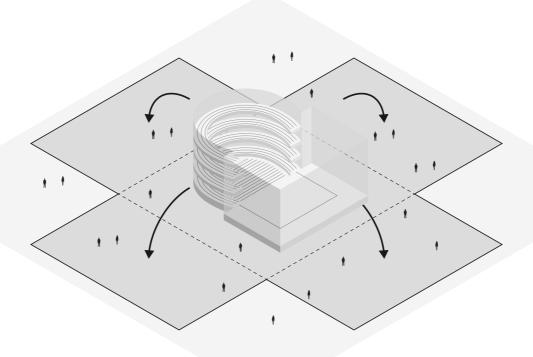
### CONCLUSION























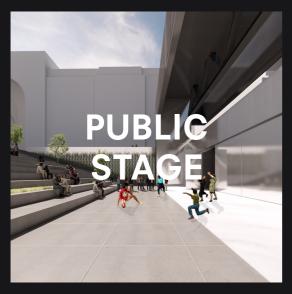


OMA, Faena Forum (Miami 2022)

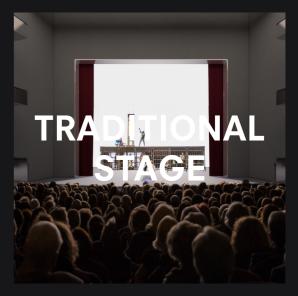




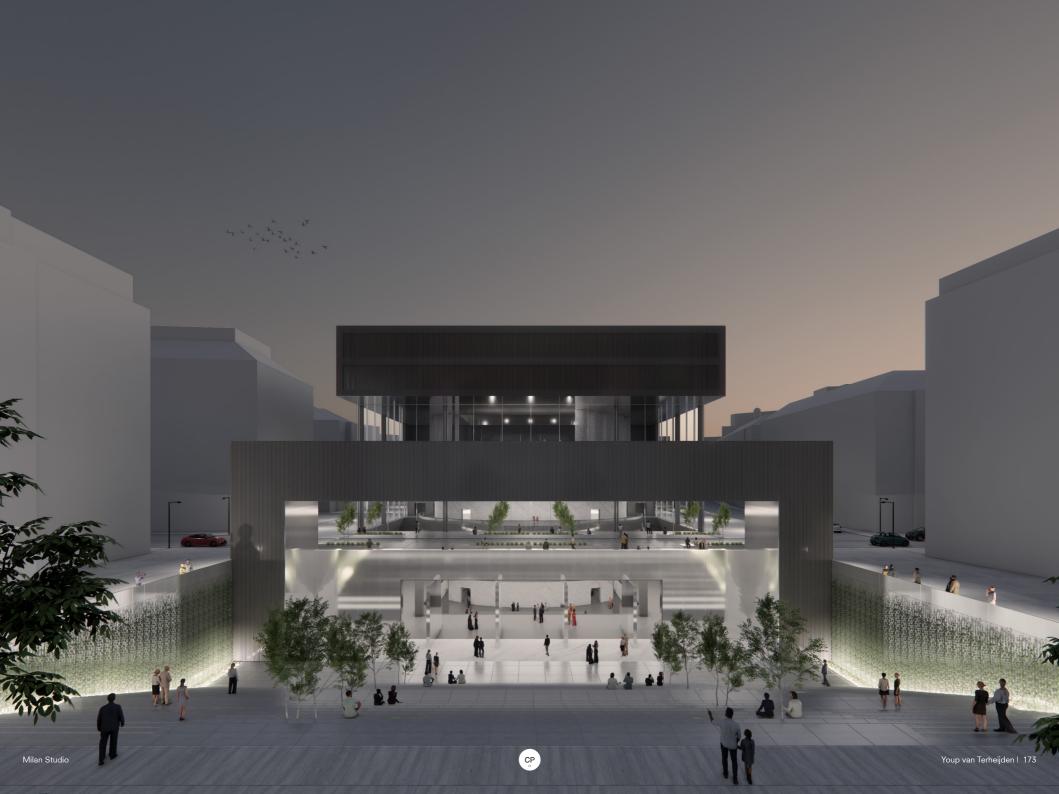












# PENING OPERA Europa riconosciuta Antonio Salieri

Thank you.