### **OPEN & CLOSED**

### A PUBLIC SPACE IN ROTTERDAM AT THE BORDER CONDITION

### **Hotel New York Group**



Main mentor 2nd mentor 3rd mentor Board of Examiners delegate Jelmer van Zalingen Sjap Holst Hrvoje Šmidihen Hendrik Ploeger

complex projects

22/01/2021

fall semester

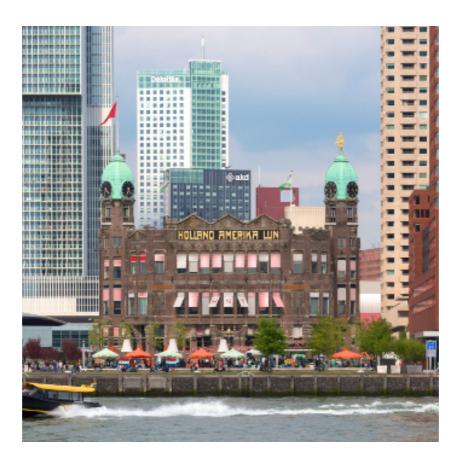


### A GROWING SCALE



We are the Hotel New York group

### IT IS GROWING...



Built environment size From human scale

### ... AND GROWING



Built environment size To tower scale



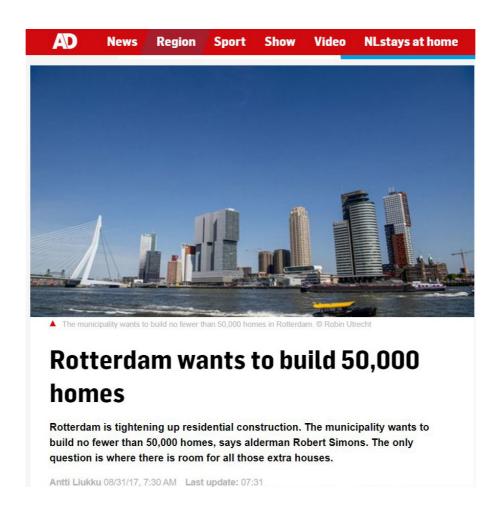
### MITIGATED BY THE PUBLIC SPACE



The use of the public space bring down to the human scale
It blurs the difference in size

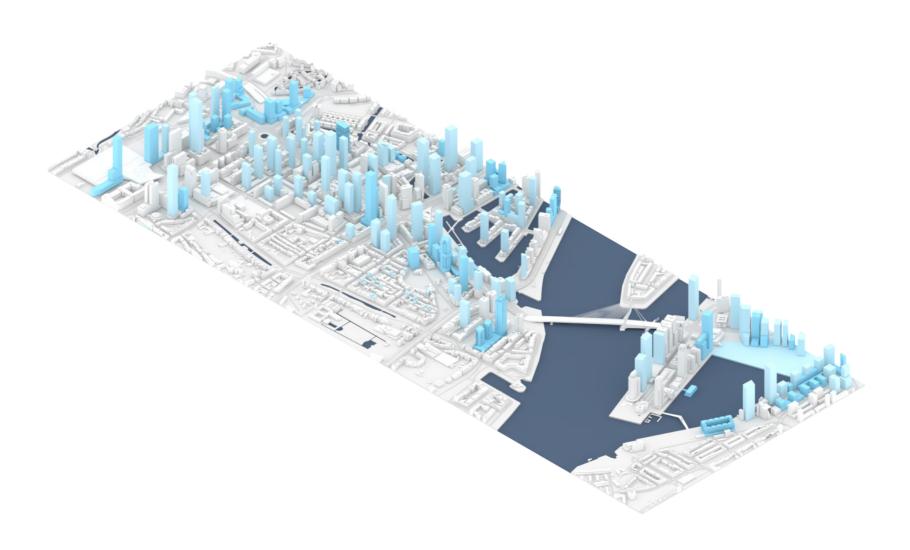


### **BECOMING MORE GLOBAL AND INTERNATIONAL CITY**



New upcoming densification for the city centre of Rotterdam

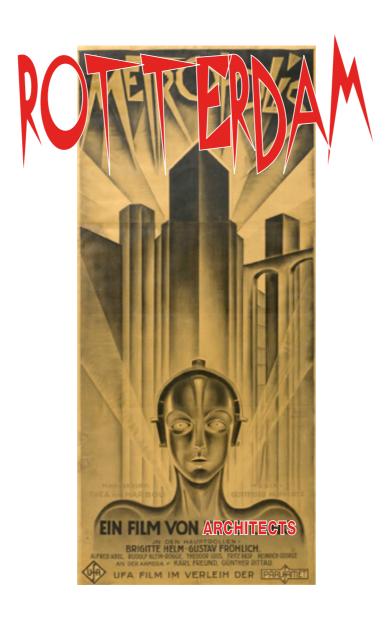
### 2040 HIGH-RISE STRATEGY OF ROTTERDAM



Municipality's vision
New densification within the city center of Rotterdam



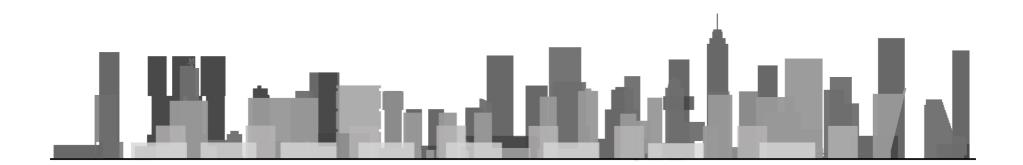
### **UP-COMING FUTURE?**



Metropolis by Fritz Langz, 1927



### **SKY-LINE**



The Municipality focuses on the skyline of the city

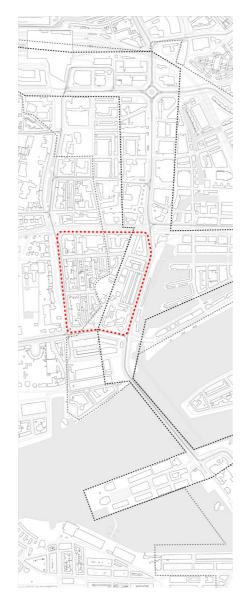
### **GROUND-LINE**



OPEN & CLOSED acts on the floorscape or groundline of the city

### **RESEARCH QUESTION** How is public space going to be reconsidered within the international character and the highrise strategy of Rotterdam?

### AT THE BORDER OF THE HIGH-RISE STRATEGY



Cool Zuid | Baankwartier Residential neighborhood // Location of the focus





### **UP-COMING HIGH-RISE DEVELOPMENTS**



Residential towers

### **ARCHITECTURAL TOPIC**



### **BORDER CONDITION**

Iowrise | HIGHRISE

history | FUTURE

intimate | DYNAMIC

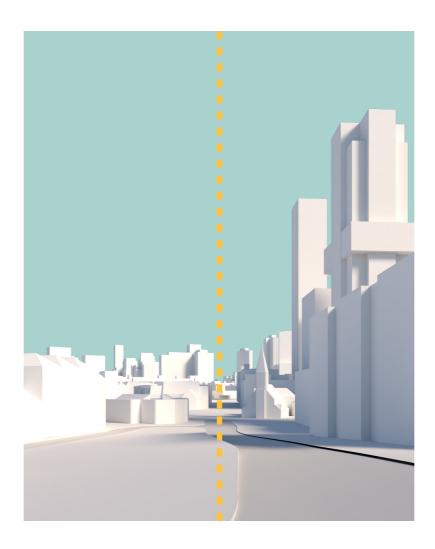
human scale | SKYSCRAPER

neighborhood | CITY



Neighborhood paradox Tension within the neighborhood

### **BORDER CONDITION**



Neighborhood paradox Tension within the neighborhood



## **MIGRATION** To explore the meaning of public space around the world

### **USE OF THE PUBLIC SPACE**

**IMPORTED** 

**EXPORTED** 



Playground in the sky Mechanix Illustrated, New York 1957



Jan Prins en Willibrordusschool Rotterdam 2008



Rockefeller Center Skating Rink New York 2018

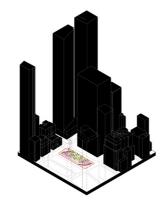


Ice skiting at Voorhaven Rotterdam 1985

### **GLOBAL PUBLIC SPACE TYPOLOGIES**



Communism
Square of Power



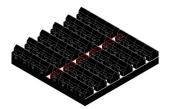
Metropolis Monumental building square



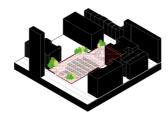
British Garden Square



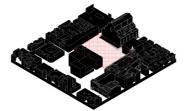
Dutch Market Square



Chinese Shared outdoor Shikumen



American
Community Neighborhood



South European Heart of the City



Dutch Neighborhood Square

### **IN NORTHERN EUROPE**

OPEN CLOSED



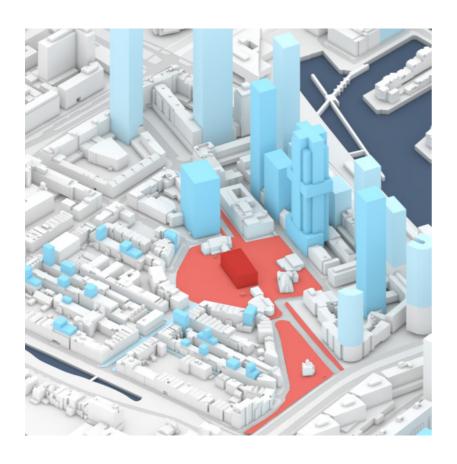


The Fight Between Carnival and Lent by Pieter Bruegel the Elder, 1559

Interior of the Cathedral in Antwerp by Pieter Neefs II and Frans Francken III, 1659 What could it be the future of this (public space) neighbourhood?

A vision led by the OPEN & CLOSED public space

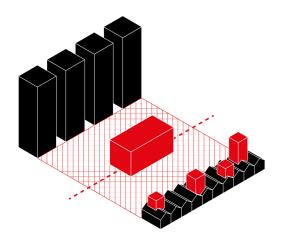
### **VISION OF THE NEIGHBORHOOD**





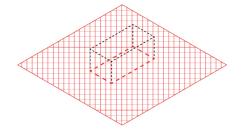
The synergy of the OPEN & CLOSED public space as new catalyst. Future densification at a different scale, preserving the human scale

### HOW



Human scale

Catalyst densification at a different scale preserving the human scale



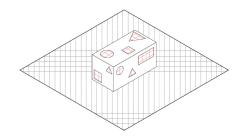
**OPEN & CLOSED public space** 

One synergic element



### **OPEN** public space

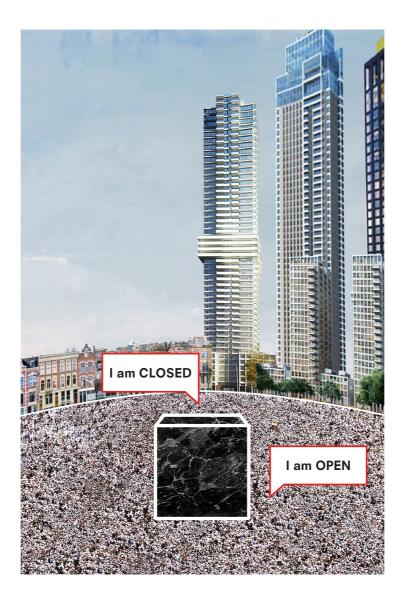
Informality and no imposition of function, diversifing its purpose



### **CLOSED** public space

Accessibility and visual relationship as Performing art center for the public life

### WHAT THE PROJECT IS TRYING TO ACHIEVE?



Synergy

### **AMBITION**



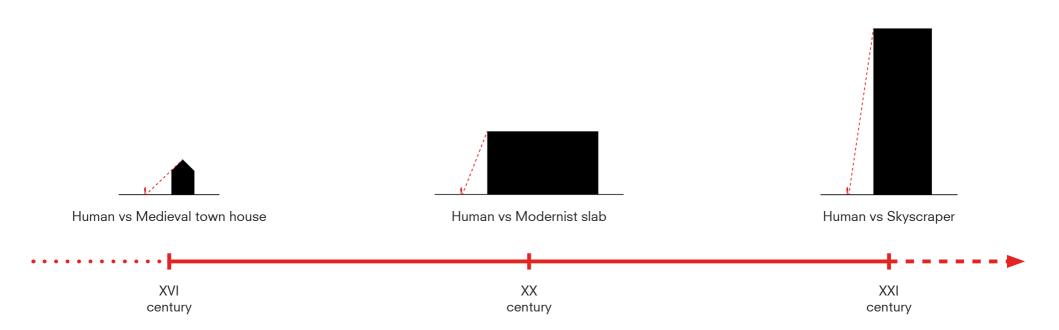
### **AMBITION**





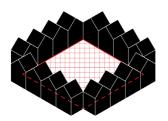
The historical evolution of Rotterdam in relation to and around the public space which always had a functional and fixed purpose

### MORE AND MORE DISTANCE FROM THE HUMAN SCALE

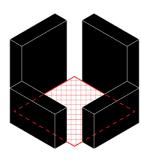


Evolution of the built environment

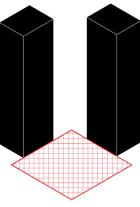
### **PUBLIC SPACE THROUGH TIME**



Market square



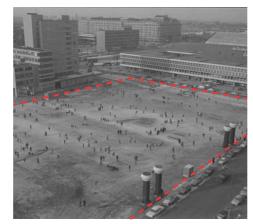
Rationalist open-air space



Monumental open space



De Rotterdamse Nieuwe Markt



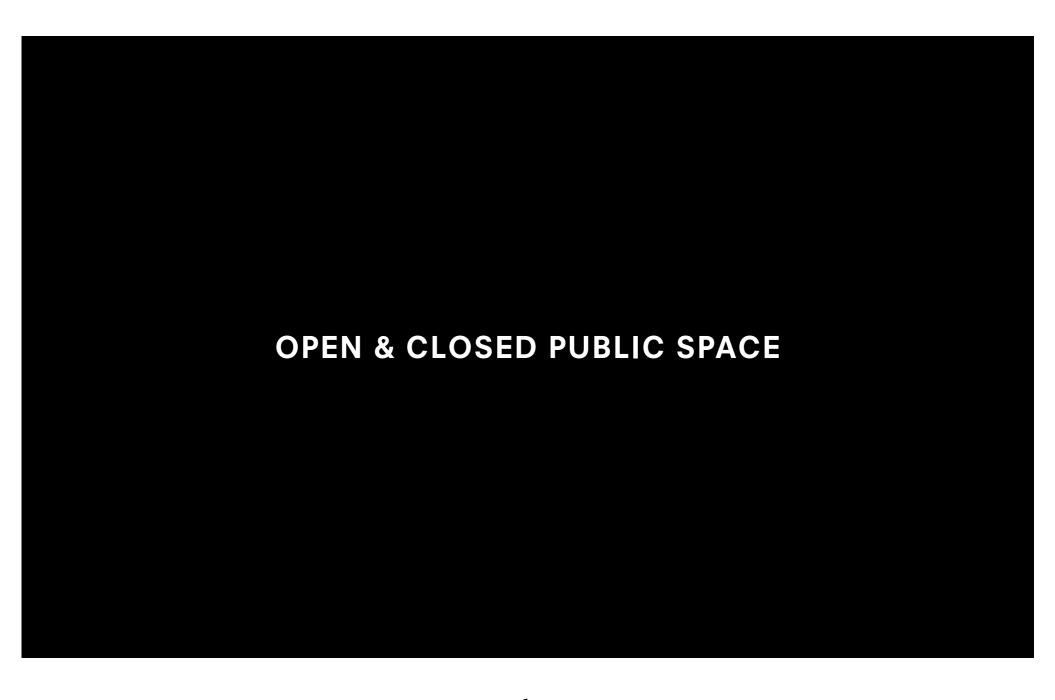
Schouwburgplein 1967



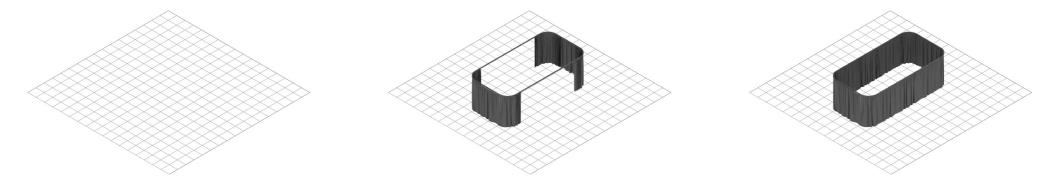
Cool Tower 2021

Evolution of the public space in Rotterdam

The public space reflects social and economical aspects of its country. However, Rotterdam becaming more and more global and international city, it will need a more informal and less functional type of public space

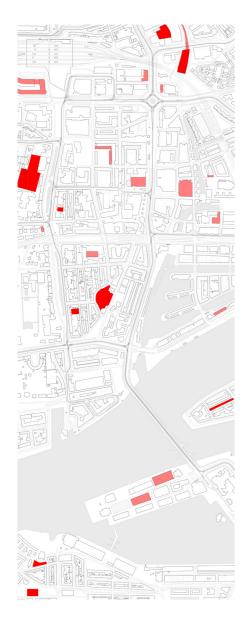


### **OPEN & CLOSED PUBLIC SPACE**

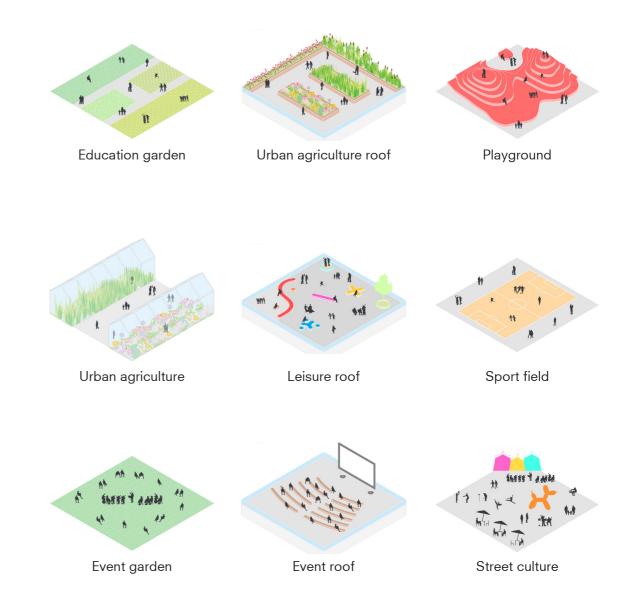




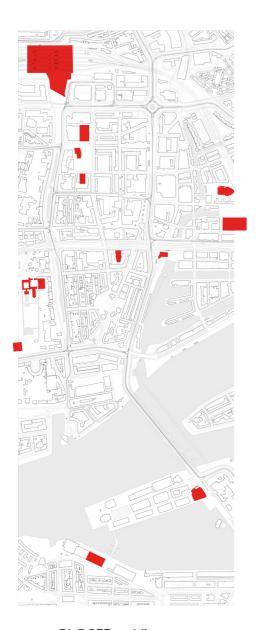
### **OPEN PUBLIC SPACE IN ROTTERDAM**



OPEN public space



### **CLOSED PUBLIC SPACE IN ROTTERDAM**



CLOSED public space



Rotterdam Central Station



Central Library



Markthal



Fenix Food Factory



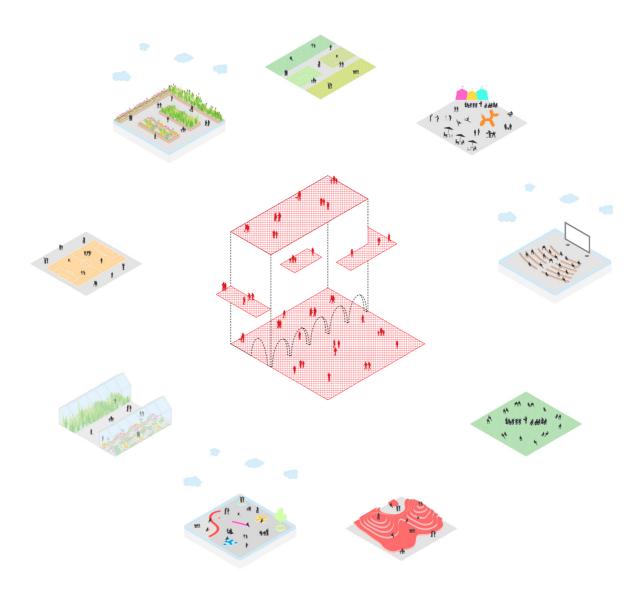
Depot Boijmans



Kunsthal

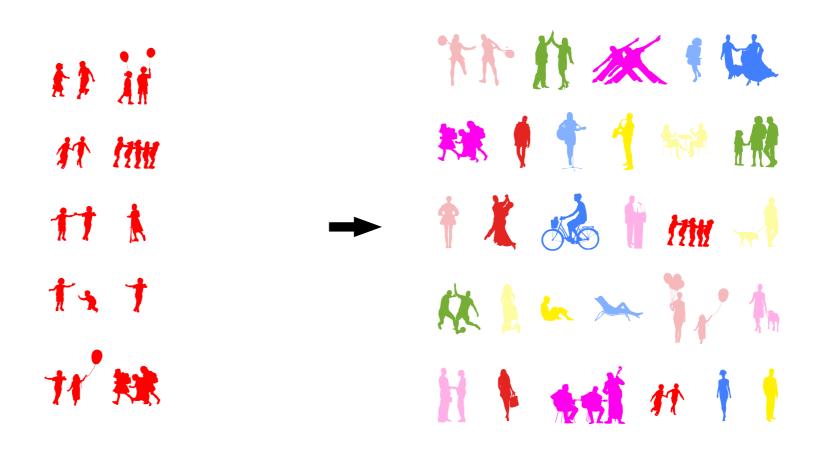
# **DESIGN BRIEF**

## **OPEN & CLOSED PUBLIC SPACE AS ONE SYSTEM**



The two have to co-exist as one synergic system

#### FROM FIXED MONO-PROGRAM TO MULTI-INFORMALITY CHARACTER



New informal activities city square. Multi-purpose public space Diversifing the uses and users

#### A NEW PERFORMING ART CENTER

#### **Dancers**



Evites Ballet
Dansschool
Bellyssima
Foundation
Scapino Ballet

#### **Actors**



Stichting Theater op Katendrecht



#### Musicians



Zanglesrotterdam Maciej Domaradzki

#### **Students**



Rotterdamse Schoolvereniging Elementary School Landje Basisschool het Landje

#### Rotterdammers



From the city
Future
international
inhabitants

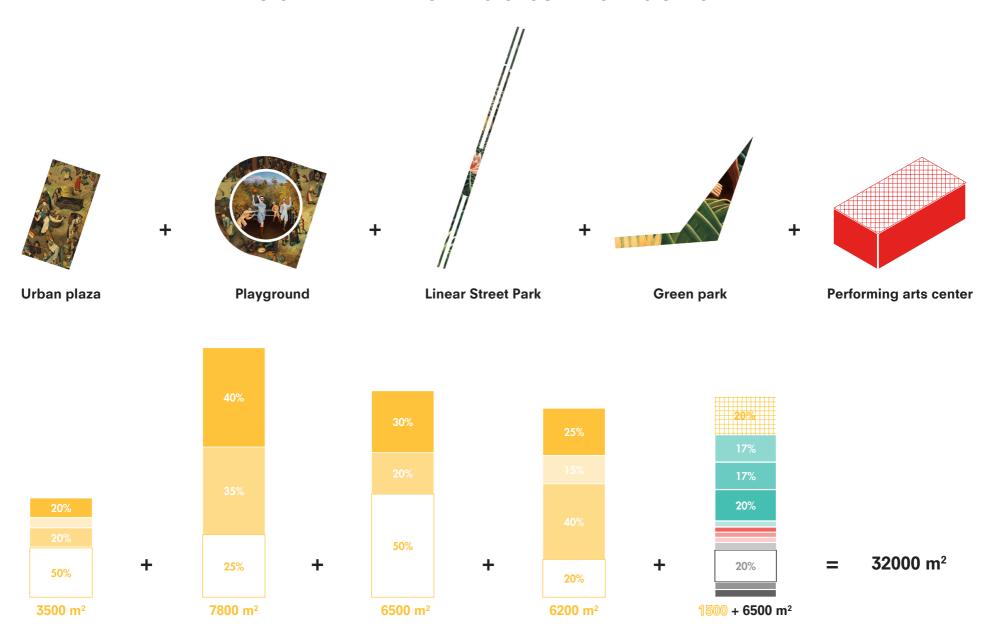
The CLOSED public space will highlight the artistic character of the Cool Zuid by providing a new place to serve the active cultural neighbors, new opportunity for the primary students and Rotterdammers

## **VISION LED BY THE OPEN & CLOSED PUBLIC SPACE**



The vision will grow and connect the neighborhood

#### **VISION LED BY THE OPEN & CLOSED PUBLIC SPACE**



# **HNY GROUP VISION**

#### Future

## **GROUP VISION**

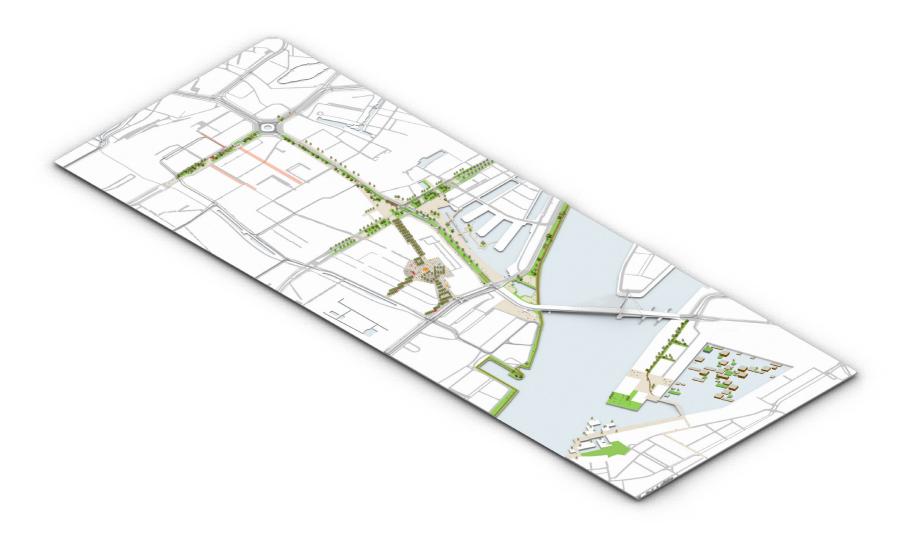


North - South connection
Along the High-rise strategy proposed by the Municipality



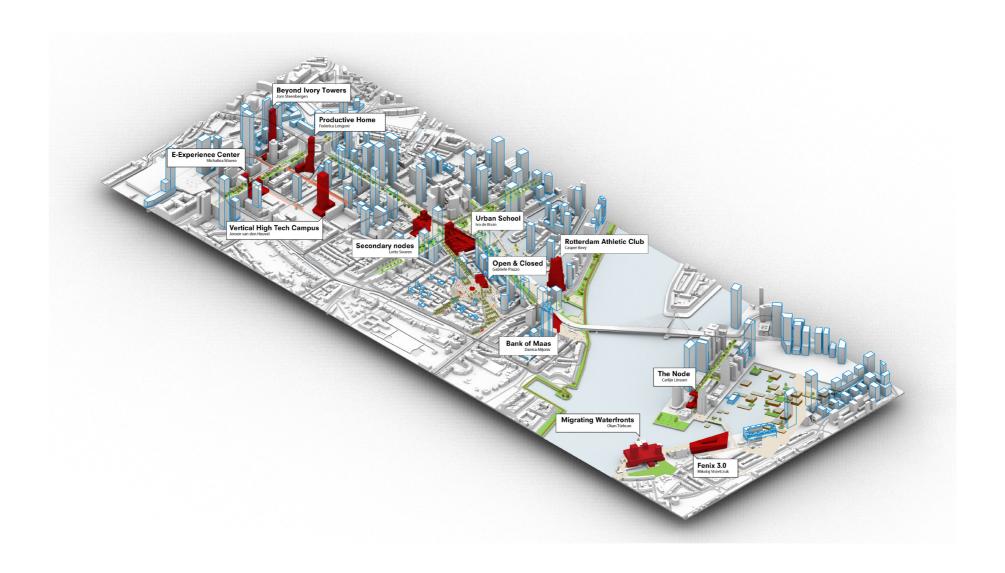
#### Future

# **GROUP VISION**



Envisioned a stronger connection of public spaces along the High-rise vision of Rotterdam

## **GROUP VISION**



Empowered by punctual interventions

#### Future

# **GROUP VISION**





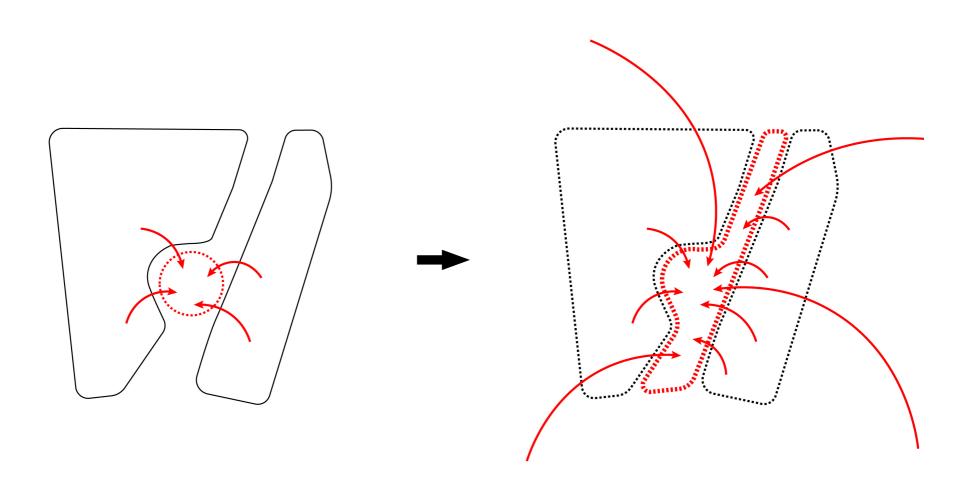
#### **NEW BEURS NODE**



A more more pedestrian friendly area.

The new metro station of Beurs as catalyst for new highrise residential developments and new amenities for the city.

## **ENGAGING THE CITY**



The border condition is blurred Now the neighborhood is able to engage a relationship with the city.



#### **Future**

#### **RESULT OF DENSIFICATION**

. . . . . . . . . . . . . . . . . . . . . 1 1 1 . . . . . . . . . . / . . . . . . . . . . 1 1 1 . . . . . . . . . 1 1 1 . . . . . . . . . 1 1 1 1 . . . . . . . . . . . . . . **. .** . . . . . . . . . . . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 . . . 1 1 1 1 1 1 1 1 1 1 1 1



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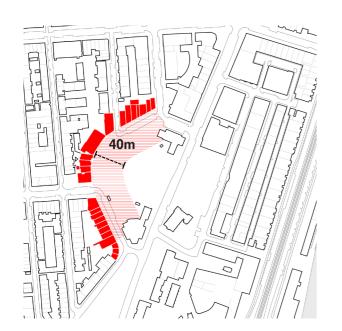
1400 Dwellings

4000 Dwellings

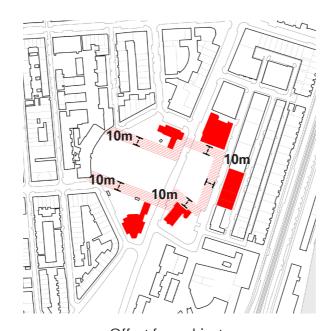


# **SITE CONSTRAINTS**

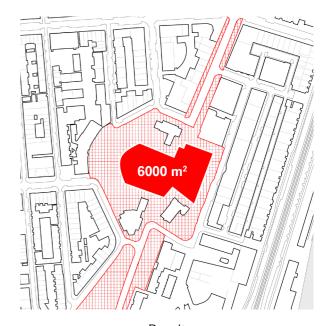
#### **URBAN PARAMETERS**



Historical curved facade as theatrical backdrop

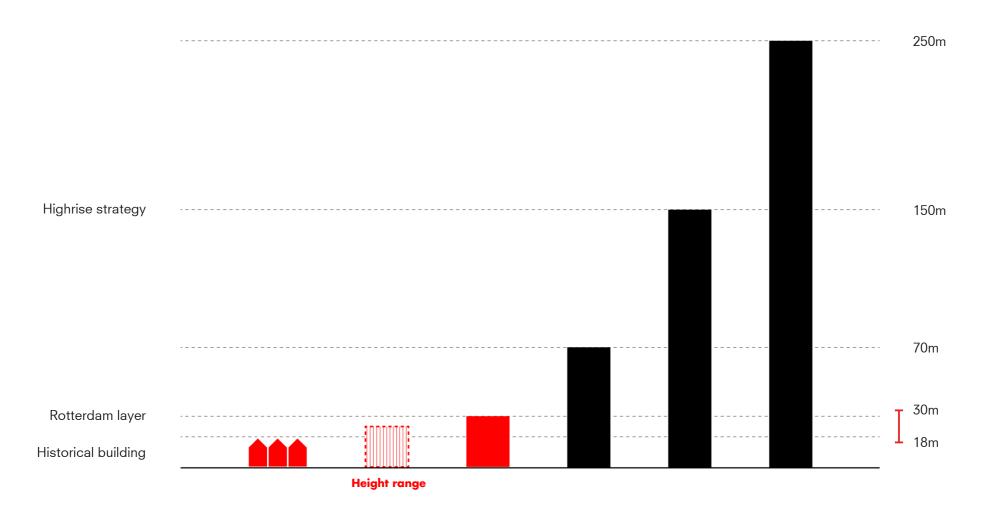


Offset from objects



Result

#### **HEIGHT SETTINGS**



The height of the building will range between the Rotterdam layer and the historical building height in order to maintain the human scale

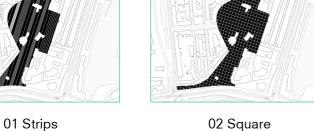
# **PRELIMINARY STUDIES**

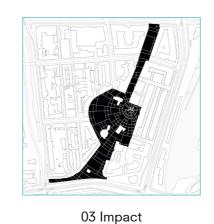
Conceiving the OPEN & CLOSED as one system



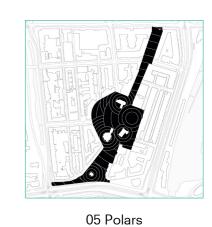
## **FLOORSCAPE & MASSING RELATIONSHIP**



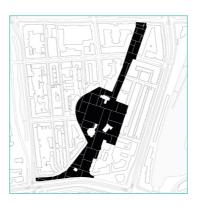


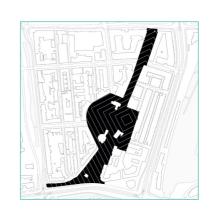


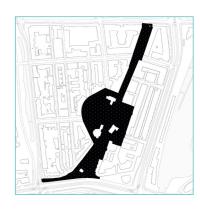












06 Streets

07 History Canal

08 Patchwork

09 Offset

10 Dots

OPEN public space

## FLOORSCAPE & MASSING RELATIONSHIP



CLOSED public space

#### MASSING & FLOORSCAPE RELATIONSHIP



OPEN & CLOSED public space

# **OPEN PUBLIC SPACE**

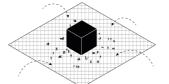
Floorscape

# **PRINCIPLES**

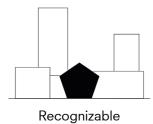
#### **OPEN & CLOSED PUBLIC SPACE RELATIONSHIP**

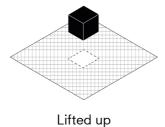


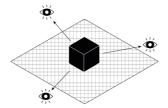




Multiple accesses

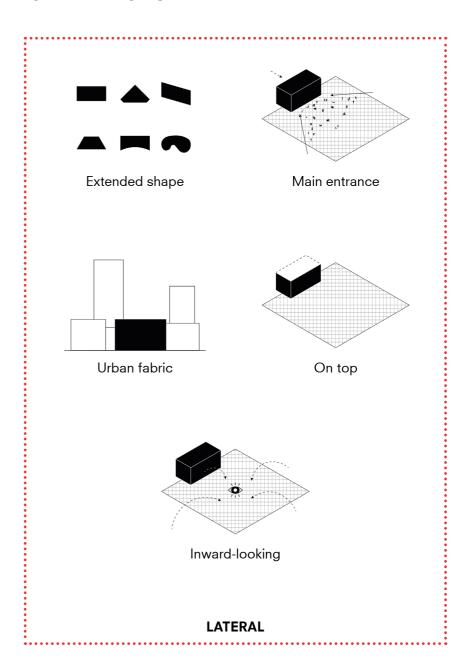






Outward-looking





#### Principles

# **INWARD-LOOKING**



Two facades as scenography Piazza del Campo, Siena



#### Principles

# **INWARD-LOOKING**



Two facades as scenography

# **INWARD-LOOKING**



Two facades as scenography A new dialogue

#### Principles

# **INWARD-LOOKING**

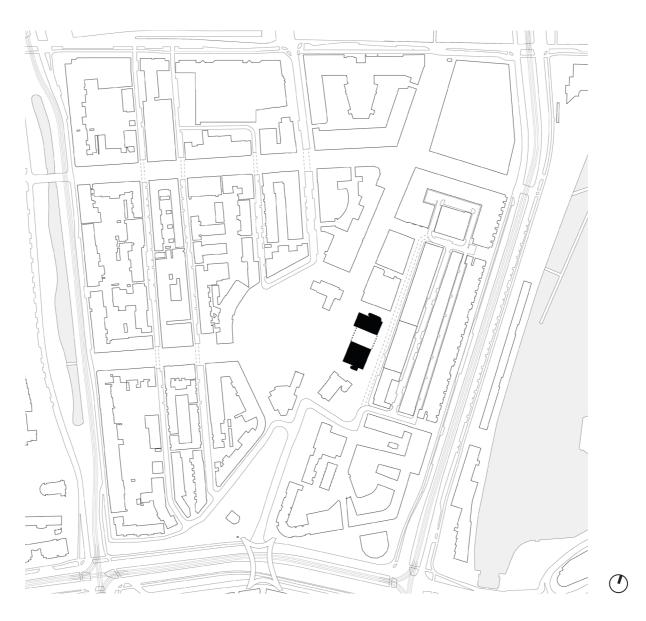


Two facades as scenography
A new dialogue

# **COMPOSITION**

#### Composition

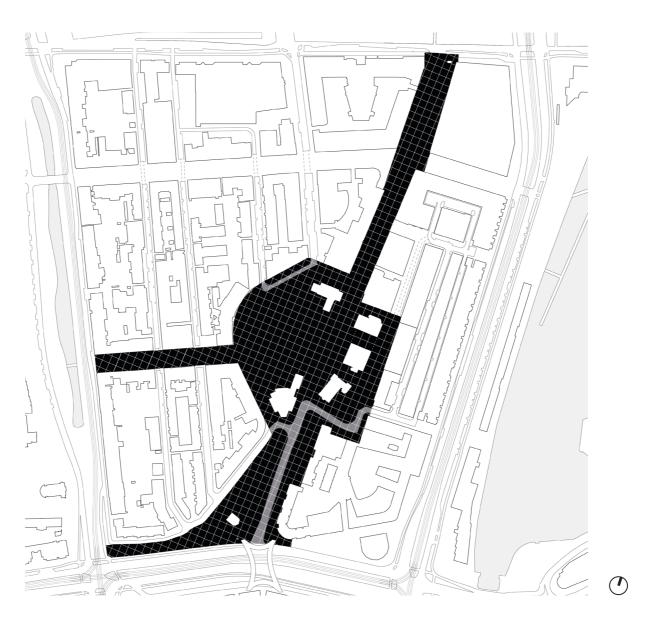
# **CLOSED PUBLIC SPACE**



At the side of the Open public space

#### Composition

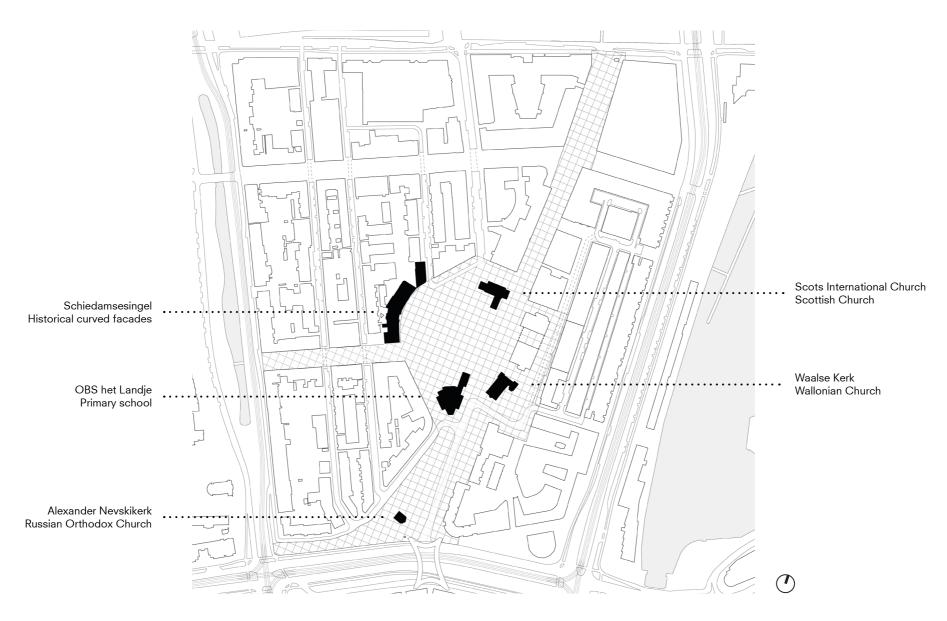
#### MAIN GRID ORIENTATION



The CLOSED public space follows the urban fabric generating a main grid orientation for a new pedestrian-friendly area

#### Composition

#### **OBJECTS IN THE OPEN PUBLIC SPACE**



Important buildings / objects of the neighborhood

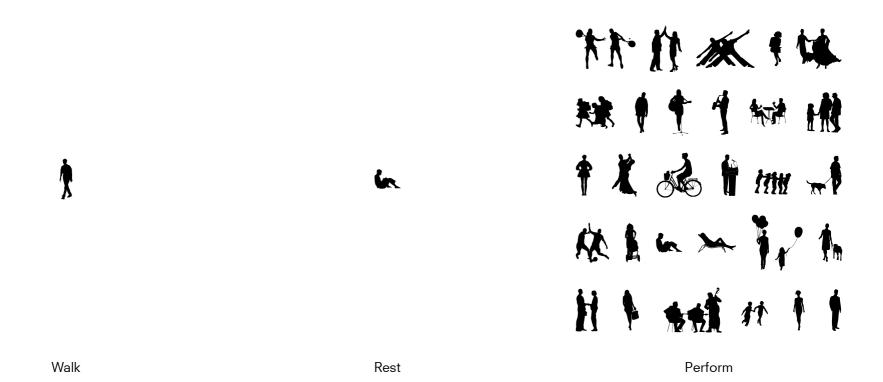
# **OWN GRID**



It overlaps and highlights different objects

# INFORMALITY USE OF THE SPACE

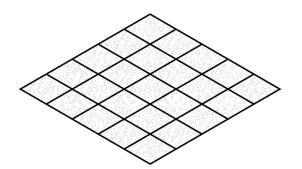
#### **INFORMALITY**

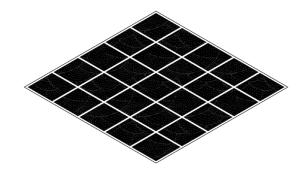


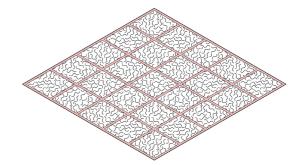
To provide coexistence of Historical residents / Towers residents / Students / Workers / Passers-by / Performers / Protesters / Partygoers

How to achieve it?

# **INFORMALITY**





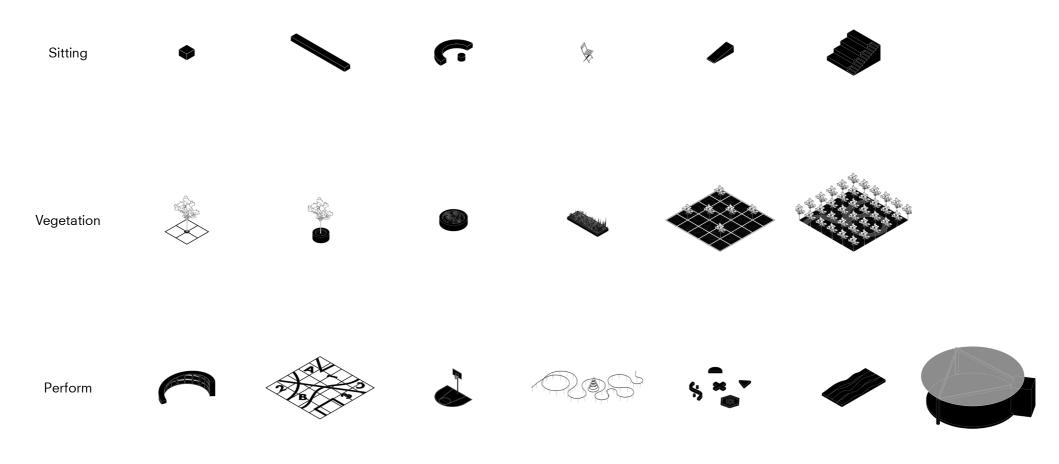


Hard Soft Playful

Different types of pavement

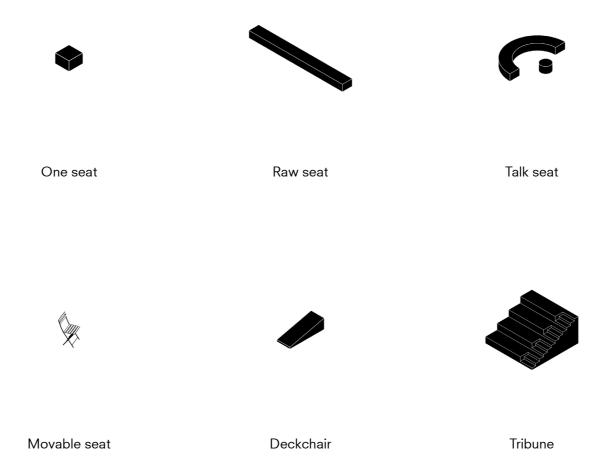
# **CATALOGUE**

# **CATALOGUE**



Different types of elements

# **SITTING**



# **VEGETATION**



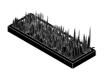




One tree

Pot tree

Flower pot







Community garden

Tree grid

Ecological path

### **PERFORM - INTERACTION**



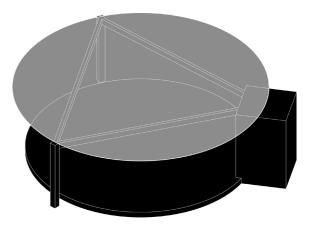




Interaction objects

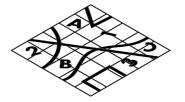
Sport

Morphology









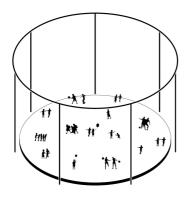
Open-air stage

Open library

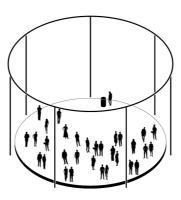
Rail path

Playscape

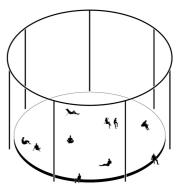
### **OPEN-AIR STAGE**







Event



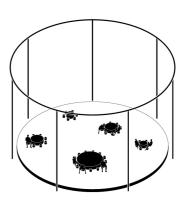
Rest



Performance



Exhibition



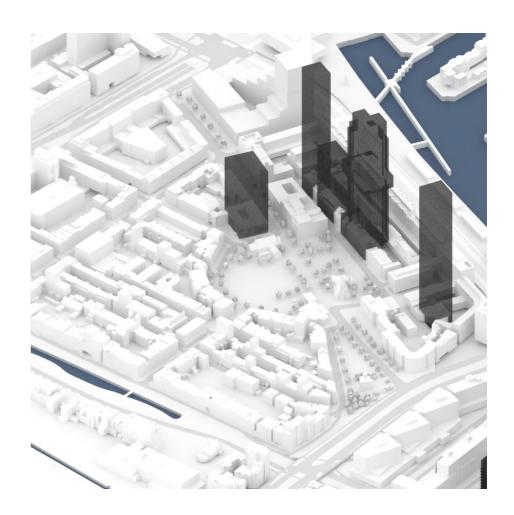
Dinner

Multiple uses for multiple users

# **MATERIALIZATION**

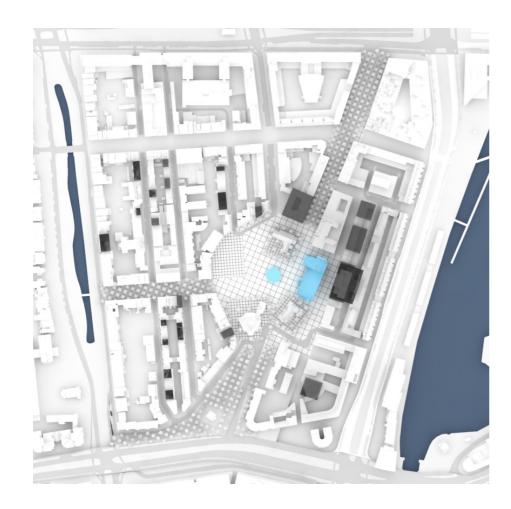
# **TODAY**

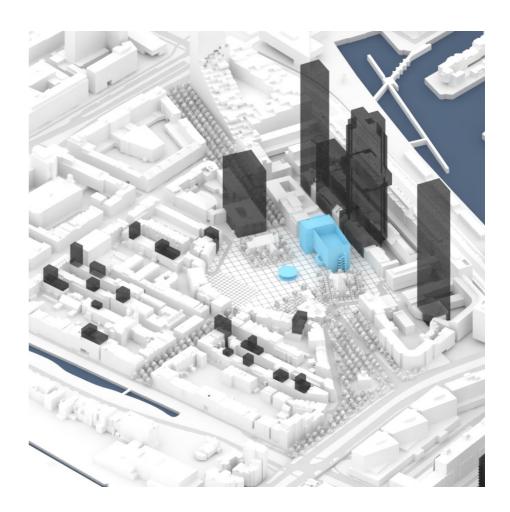




Stony and lack of coherency Scattered and mono-function

# **PROPOSAL**

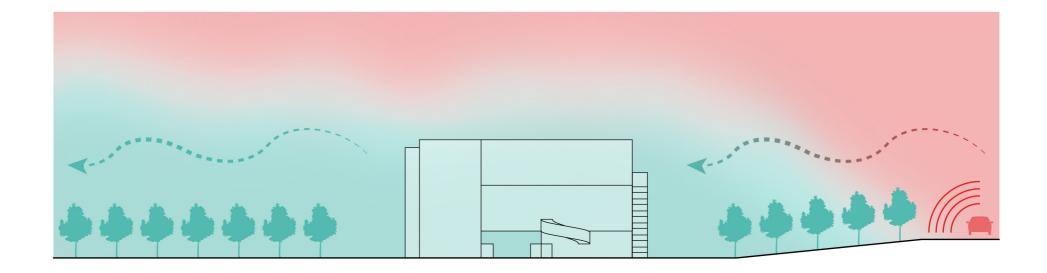




New vegetation buffer as threshold of the neighborhood leds to the free central open central square

### Climate

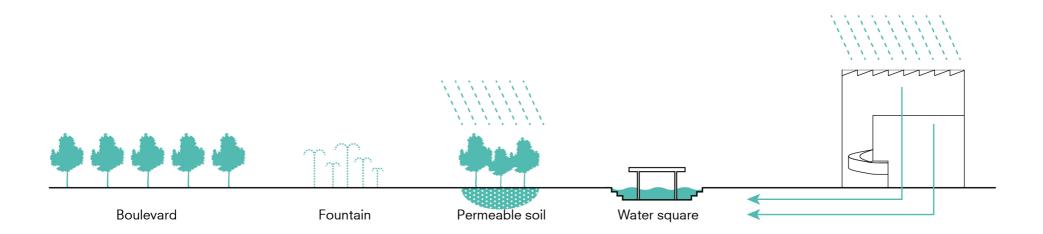
### **URBAN HEAT ISLAND**



Vegetation refresh and clean the air coming from South-West direction towards the city center and the neighborhood



### **WATER SYSTEM**



Rainwater is temporarily stored during storm to prevent floods and to avoid overload of the sewage system

### Materialization

### **URBAN IMPLEMENTATION 1:500**







### **OPEN PUBLIC SPACE TYPOLOGY SECTIONS**



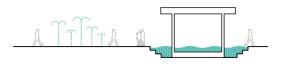
Boulevard



Resting area



Playground

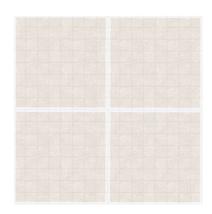


Stage

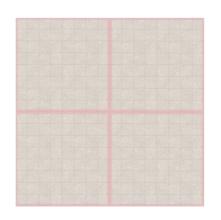
### **URBAN IMPLEMENTATION 1:500**



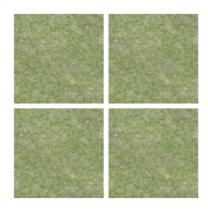
# **MATERIAL**



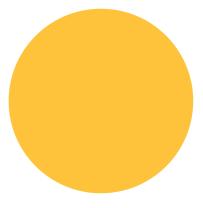
**Hard**Granite + White finishing



**Hard**Granite + Colorful finishing



**Soft** Grass



**Playful**Colorful furniture







New vegetation tresholds for the neighborhood



New vibrant heart of the neighborhood



# **CLOSED PUBLIC SPACE**

### Materialization

# PERFORMING ARTS CENTER

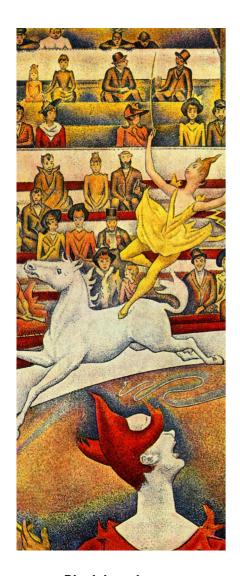


Directly connected to the open square

# **PROGRAM**

### Program

### **PERFORMING ART CENTER**



Black box theater
"The Circus"
by Georges Seurat (1891)



**Dance studio**"The Dance Class"
by Edgar Degas (1874)



"The Music Lesson" by Johannes Vermeer (1662)



"A Bar at the Folies-Bergère" by Édouard Manet (1882)

### **ACTIVATOR - PUBLIC PROGRAMS**





Cafè

Workshop & Exhibition





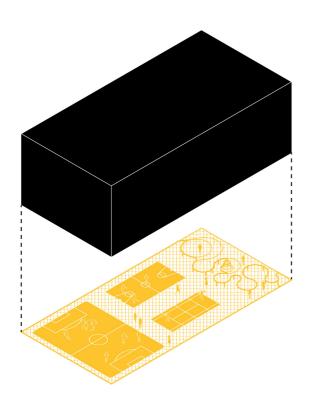
Foyer lounge

Performing art shop

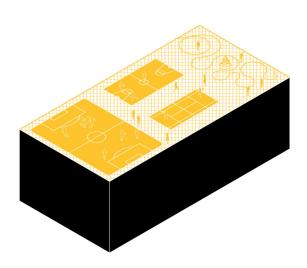
To engage other users acting as Closed public space

### Program

### **ACTIVATOR - INTEGRATED OPEN PUBLIC SPACE**



Covered public space



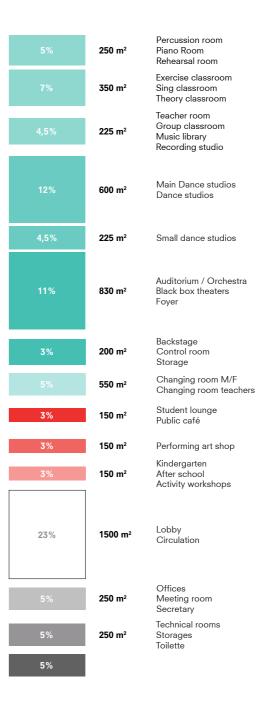
Elevated public space

To engage other users acting as Closed public space

### Program

### **QUANTITIES**





# CONCEPT OF COMPOSITION: SCALESS

### REPETITION OF PATTERN // GLIMPSE OF INTERACTION



Tackle the human scale differently

### ABSTACTION // AMBIGUITY // PURENESS // MONUMENTALITY





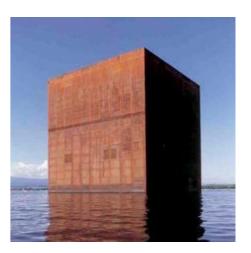












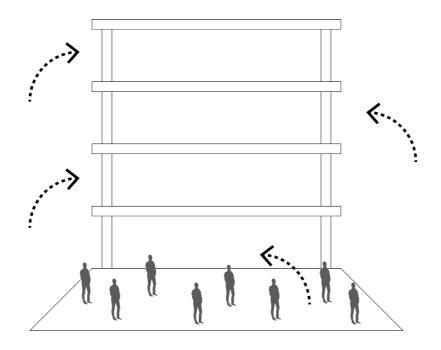
Characters

The CLOSED public space is perceived out of scale with **no pattern** related to the human scale. It is scaless.

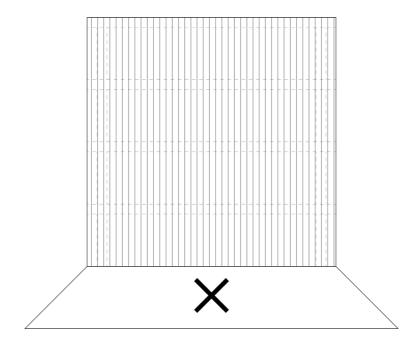
Only a few elements of interaction, together with the use of the integrated OPEN public space bring back to the **human scale**.

The system works thank to a synergy made by **dichotomy**.

# **NAKED**

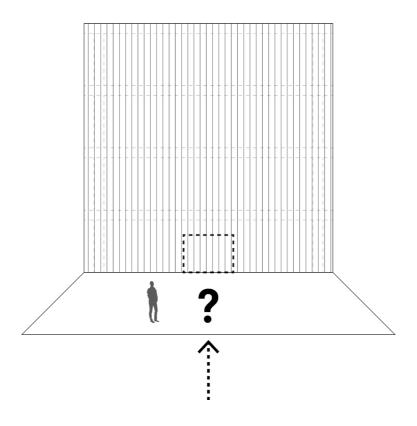


# **SCALESS ENVELOPE**



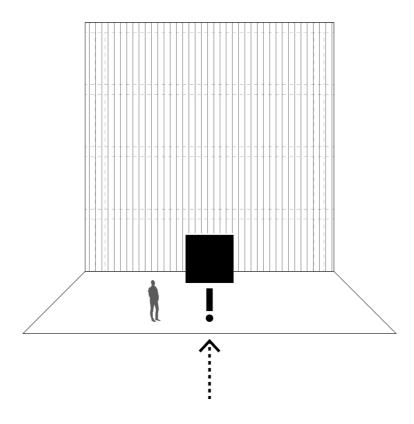
No interaction with the human scale

# **HIDDEN ENTRANCE**



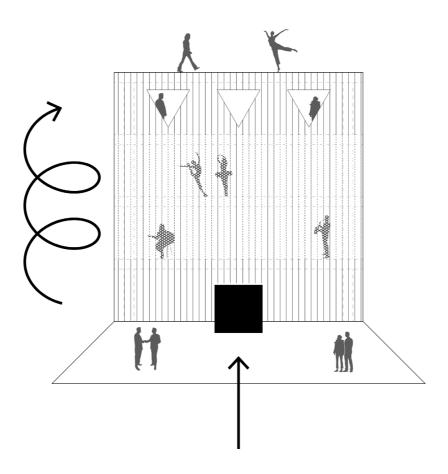
Ambiguity of the entrance will generate less interaction

# **RECOGNIZABLE ENTRANCE**



Elements stick-out, interaction with the human scale

### **BACK TO THE HUMAN SCALE**



The elements of interaction, the use of the materials, visual and physical relationships togheter with the use of the space will evolve the scaless into human scale

# **USE OF THE MATERIAL AS ENVELOPE**

#### **REFLECTIVE ANOIZED ALUMINIUM**

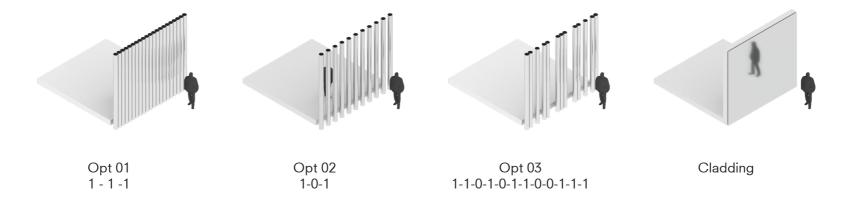


Reflective aluminium cladding



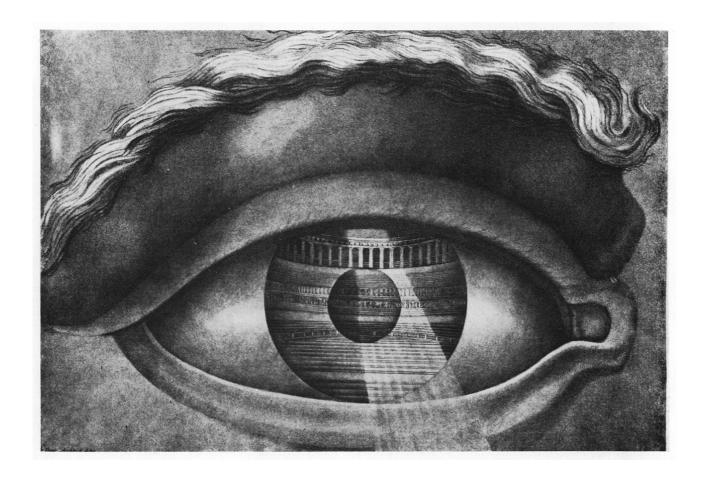
Reflective aluminium pipes

#### **ENVELOPE COMPOSITION**



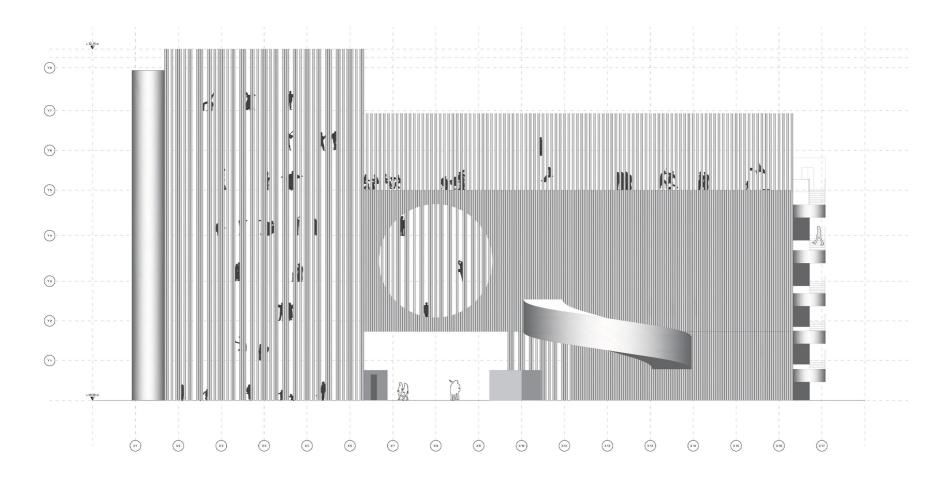
Open & Closed envelope. It creates a system of physical and visual relationships

## AN EYE OVER THE OPEN PUBLIC SPACE



Eye enclosing the theatre at Besançon Claude Nicolas Ledoux, c. 1800

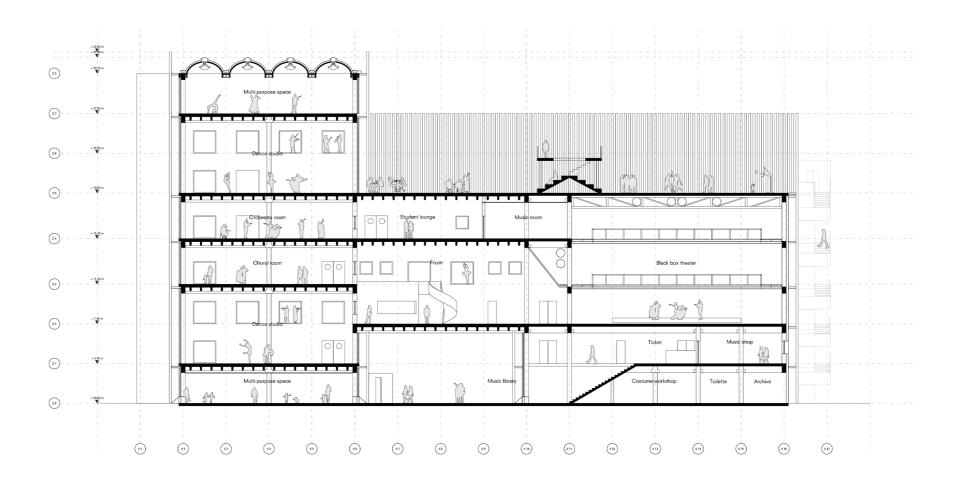
#### **ELEVATION 1:200**



Exterior
Physical and visual relatioship



#### **ELEVATION 1:200**



Interior
Physical and visual relatioship

# **ABSTRACTION + GLIMPSE OF CONTACT**

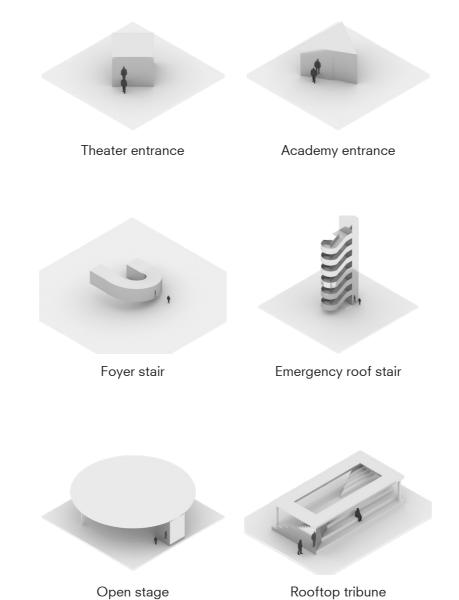
Scaless envelope + Elements of interaction to connect it to the human scale



# **OPEN & CLOSED PUBLIC SPACE**



#### **EXTERIOR GLOSSY ELEMENTS OF INTERACTION**

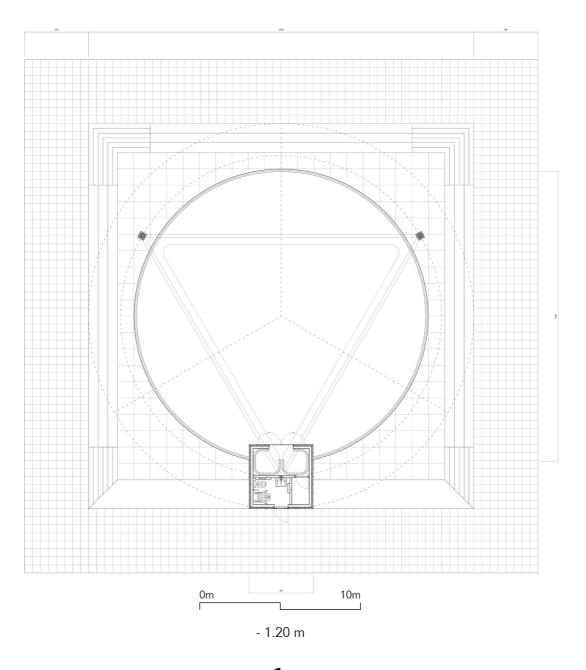


To create connection to the human scale

# OPEN-AIR STAGE



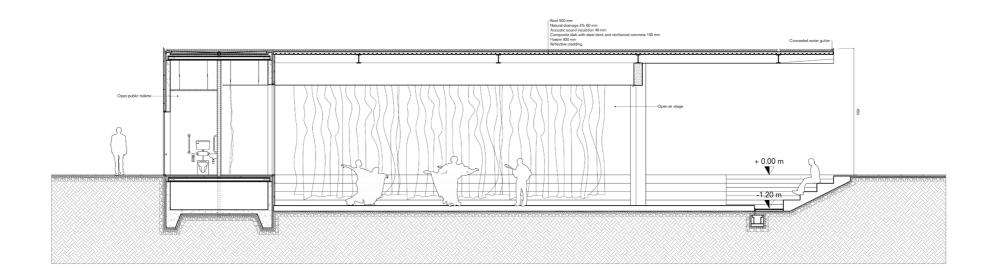
## **OPEN-AIR STAGE 1:50**







#### **OPEN-AIR STAGE 1:50**



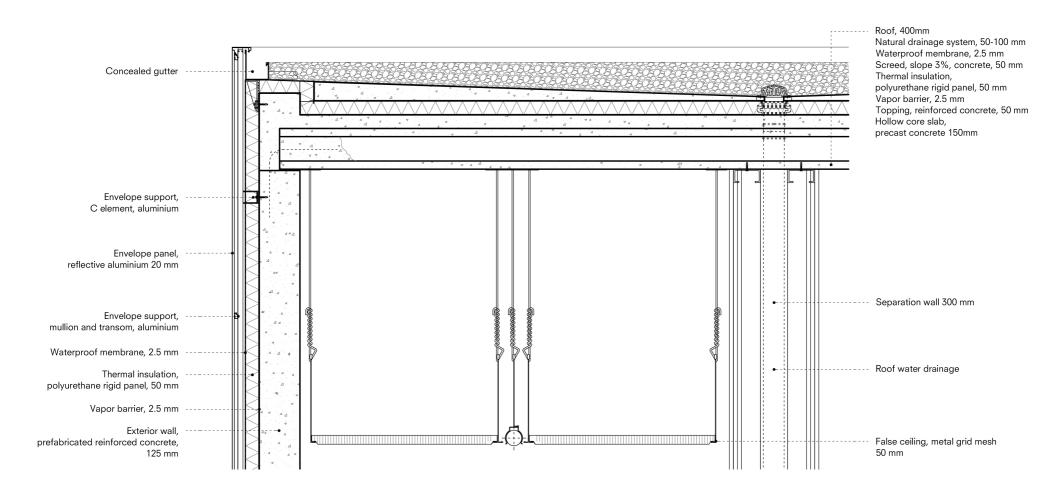
0m 10m

# **OPEN-AIR STAGE**



To enjoy a public event

#### **REFLECTIVE CLADDING 1:10**



0m 1m

# DICHOTOMY EXTERIOR VS INTERIOR

Glossy exterior vs Colofrul interior



#### **COLORFUL INTERIOR**



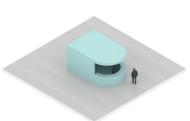
Polished concrete floor



Exposed concrete structure



Colorful cladding



Colorful cladding reception



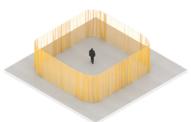
Colorful cladding stair



Colorful cladding bar



Colorful cladding ticket



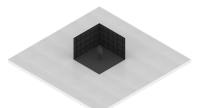
Colorful dampening courtain



Colorful forniture



Colorful frames and doors



Acoustic black panel



Acoustic wood panel



Acoustic clouds ceiling



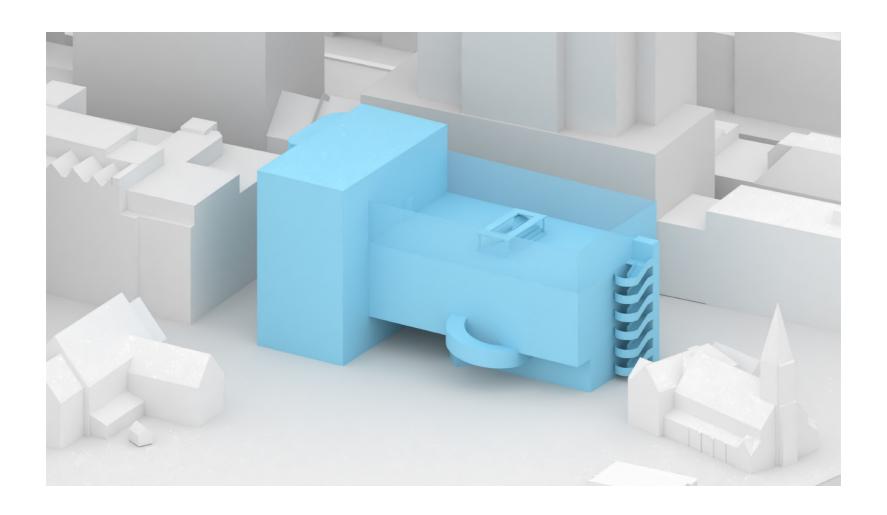
Timber sprung floor



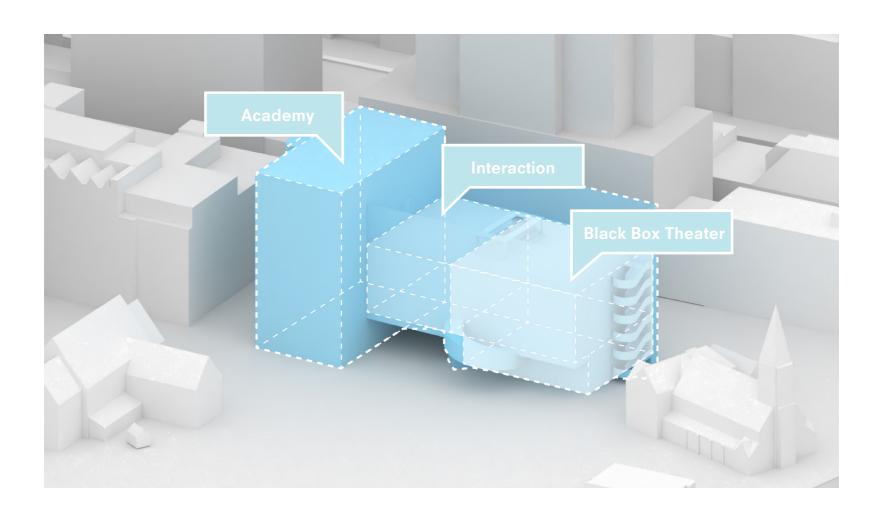
Extra interior cladding



## **MASSING**

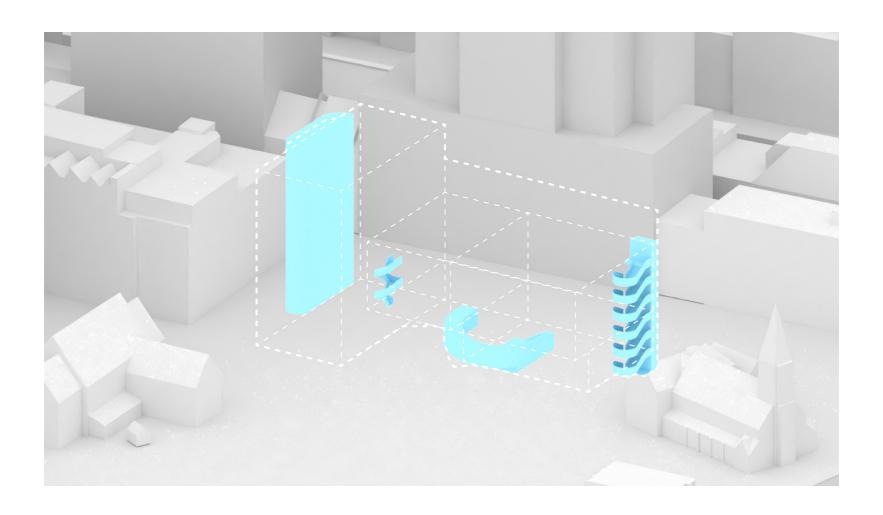


#### **GENERAL ORGANIZATION**



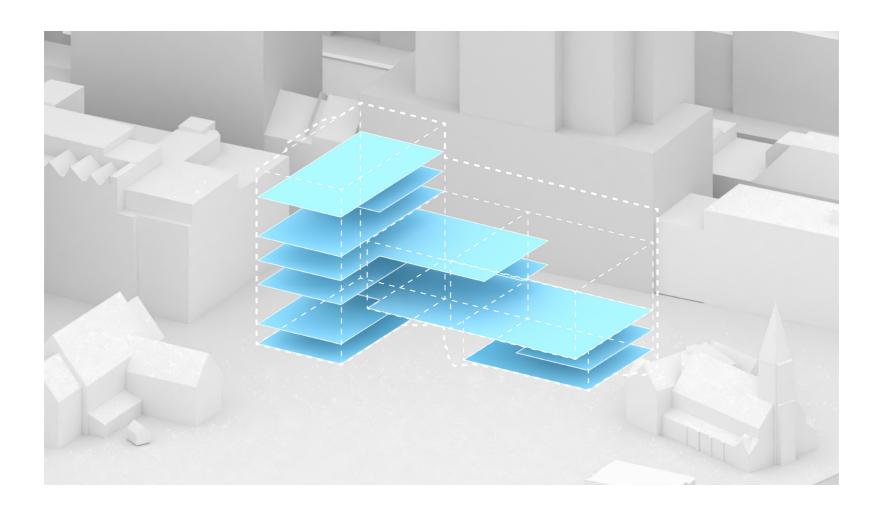
Performing arts center subdivision
Theater to enjoy shows / Academy to lear how to perform

## **VERTICAL CIRCULATION**



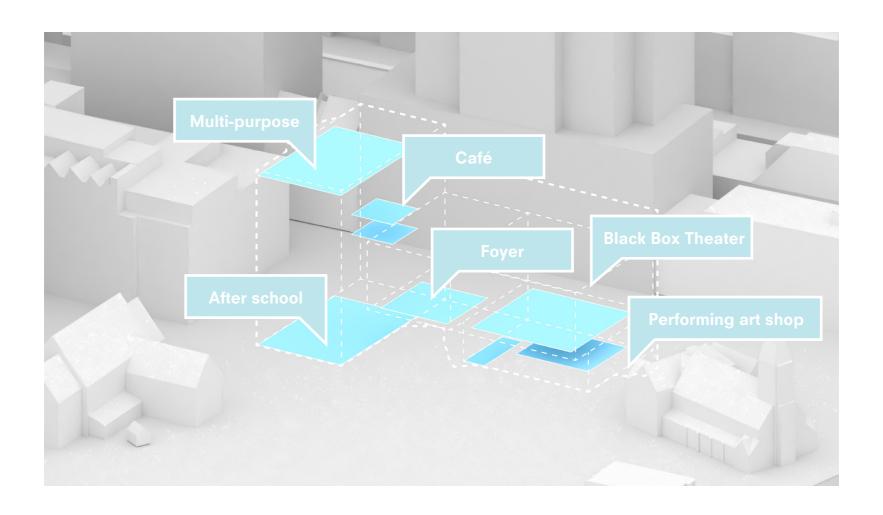
Vertical cores at the extremities + internal staircases

# **FLOORS**



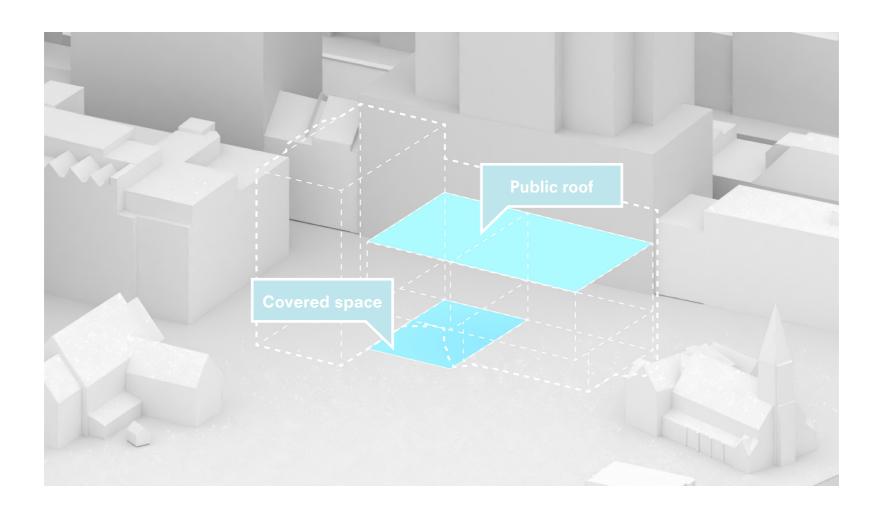
Single storeys and double height spaces

#### **PUBLIC PROGRAM**



To engage a broader audience indoor

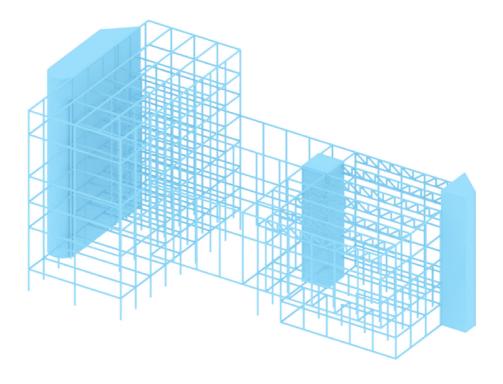
#### **INTEGRATED OPEN PUBLIC SPACE**



To engage a broader audience outdoor

# **STRUCTURE**

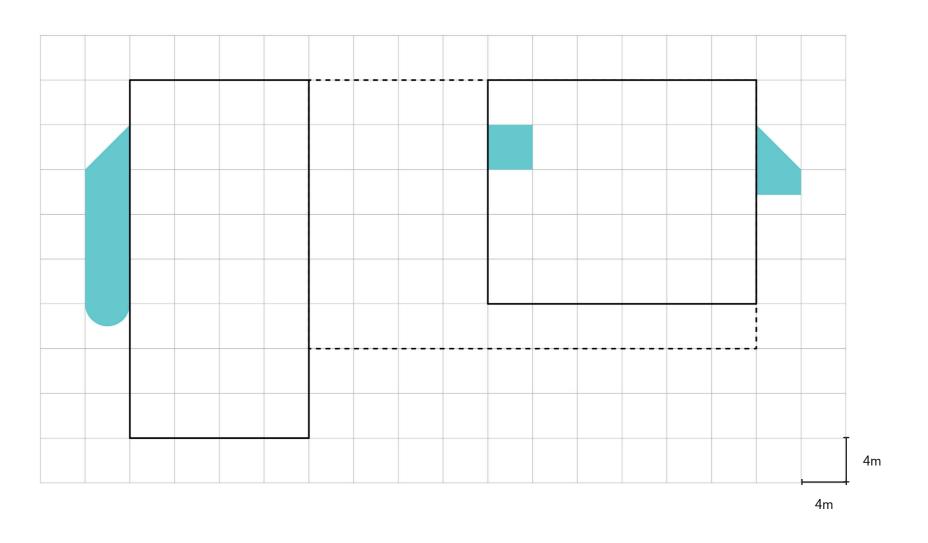
#### **STRUCTURE SYSTEM**



Structure is made of PRECAST REINFORCED CONCRETE Exposed structure feeling / Good thermal mass properties and Acoustic performance

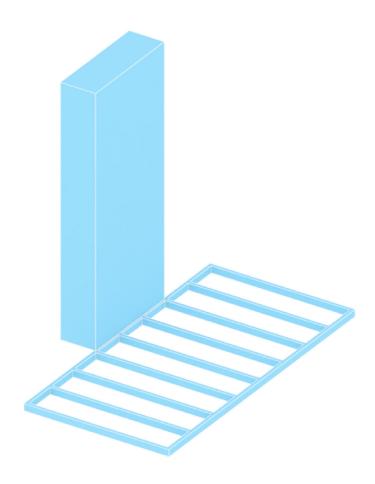
#### Structure

## **STRUCTURE GRID + STABILITY CORES**



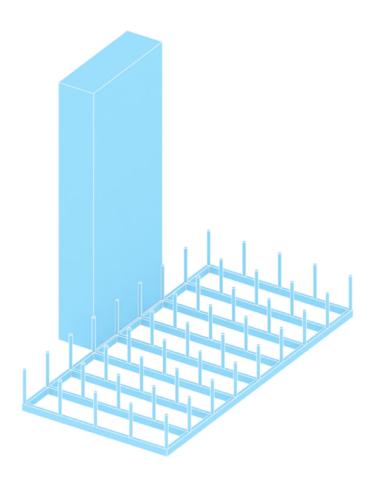
Structure grid is 4x4m

## **CORE & FOUNDATION**

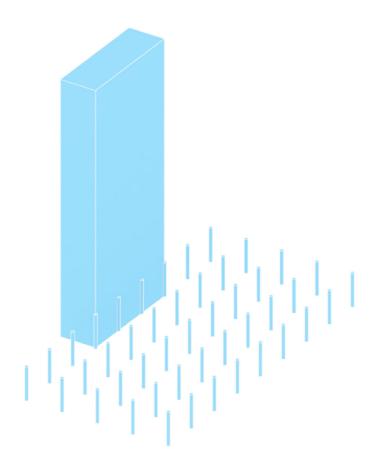


#### Structure

## HINGED COLUMN TO FOUNDATION

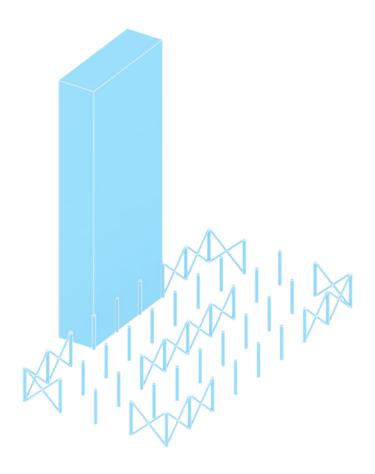


#### **VERTICAL COLUMN SYSTEM**

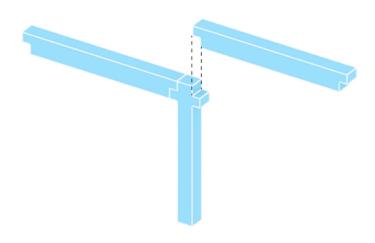


#### Structure

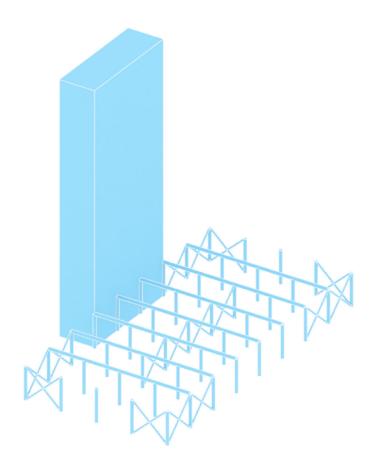
#### **TEMPORARY STABILITY ELEMENT**



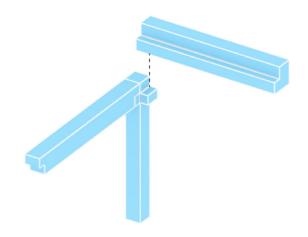
## **BEAM - COLUMN**



## **BEAM SYSTEM**

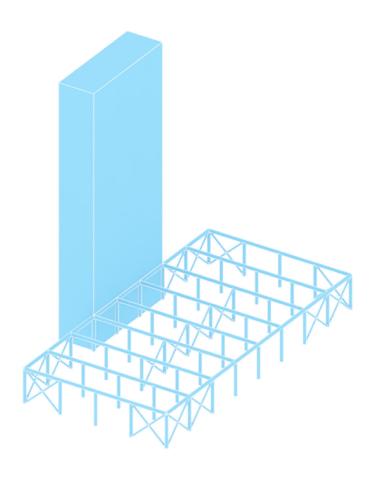


## **GRINDER - COLUMN**

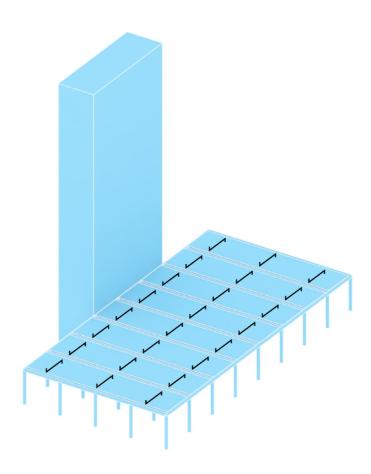


#### Structure

#### PERIMETRAL GRINDER SYSTEM



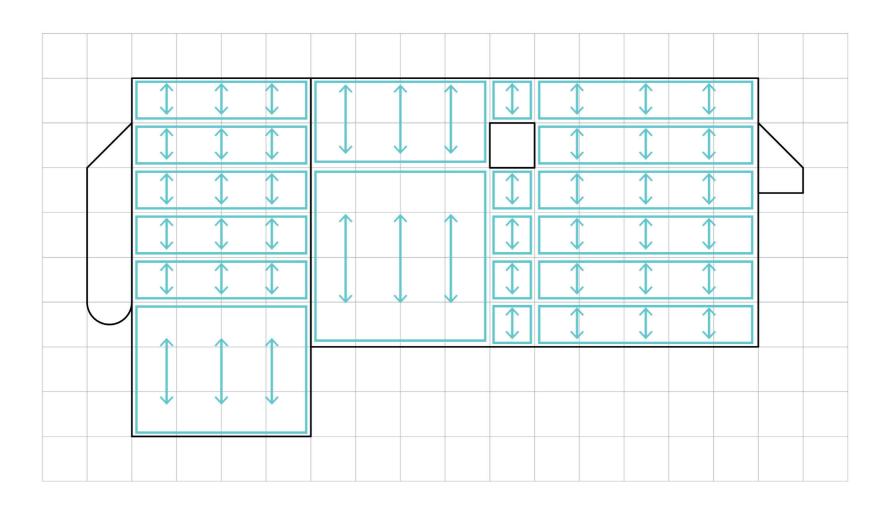
## **ONE-WAY SLAB**



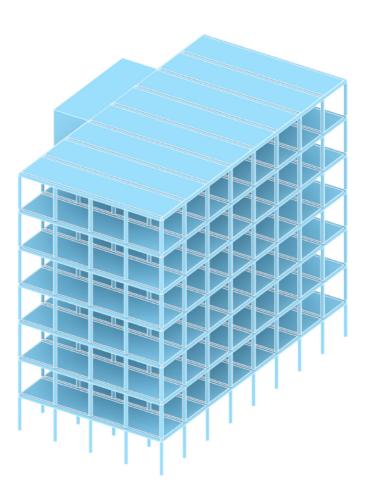
Temporary stability elements are removed

#### Structure

#### **SLAB SPAN DIRECTION**



# **MULTIPLY**



Precast concrete construction

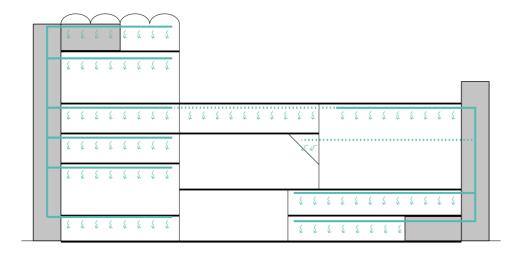
#### **ELEMENTS**

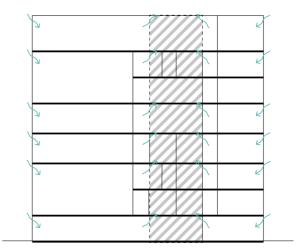
**VERTICAL HORIZONTAL** SLAB SPECIAL 7000000000 Prefabricated Hollow core slab Prefabricated column Prefabricated beam Prefabricated beam Truss 400x400 / 250x250 mm T-shape 600/800 mm 800x400 mm 150 mm 1300 mm Composite column Prefabricated column Prefabricated beam Prefabricated beam Prefabricated Double tees L-shape 600/800 mm 400 mm 300x250 mm 400/600 mm HEA 280 mm

Prefabricated concrete elements, plus few special elements, when particular spaces with larger spans would otherwise required oversize structural elements

# **CLIMATE**

#### **VENTILATION**





Mechanical ventilation as main actor

Natural ventilation to achieve an extra gain especially during summer

Large shafts inside the cores + Two technical rooms

#### Detail

#### **MECHANICAL VENTILATION**

#### TYPE OF SPACE

# Theater (150-200 people)

• Foyer (150)

Dance studios (25-30 people)

Music rooms (1-8)

#### AMOUNT OF AIR PER HOUR

- 25 m<sup>3</sup>/h

- 40 m<sup>3</sup>/h

#### **AIR VELOCITY**

Normal duct 2,5 m/s

- Shaft 5 m/s

#### DUCT SIZE Ø

- Technical shafts 1000 + 1000 mm

- Theater 600 + 600 mm

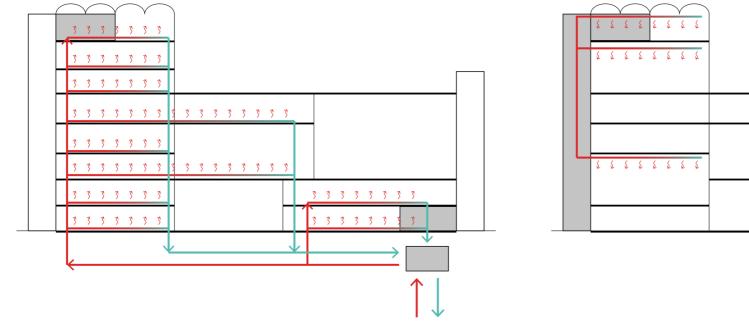
- Foyer 700 mm

- Dance 400 mm

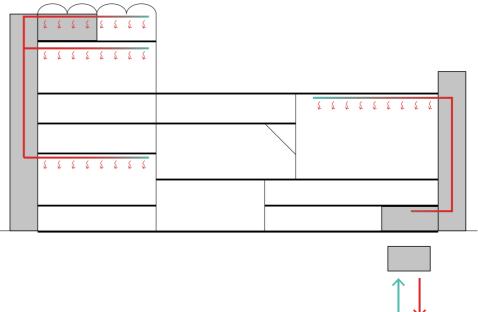
Music 10/20 mm

Dimensioning for the ventilation ducts

#### **GEOTHERMAL ENERGY - HEATING**



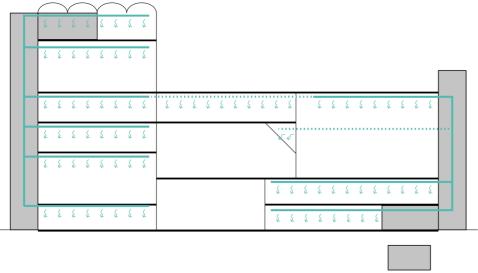
Heat pump system Heating floor system



Mechanical ventilation
Controls the temperature in the performing spaces

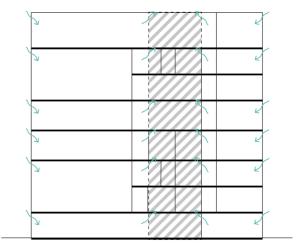
Winter

#### **GEOTHERMAL ENERGY - COOLING**





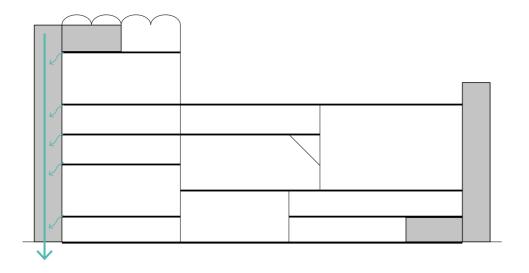
Mechanical ventilation
Controls the temperature to cool down the temperature

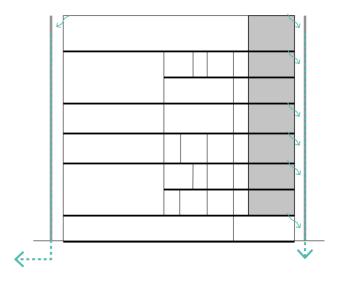


Natural ventilation to achieve an extra gain especially during summer

Summer

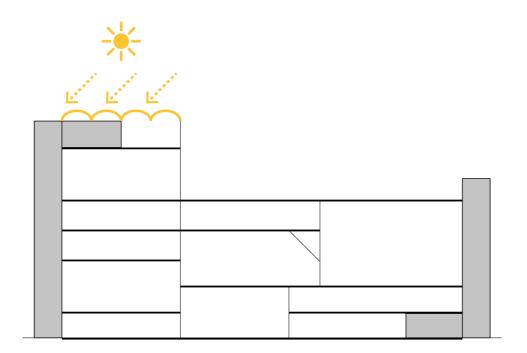
# **WATER SYSTEM**

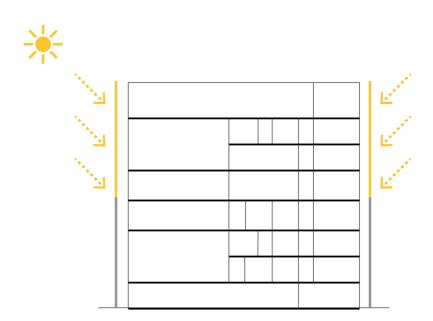




Sewage system Left core for mixed-toilettes Changing room's sewage system + Roof water drainage Hidden inside and behind the envelope

# **SOLAR ENERGY**





PV cells Glued on the roof

PV cells
Glued on the higher part of the pipes

# **ACOUSTIC**

#### Acoustic

#### **DAMPENING & SOUNDPROOF ELEMENTS**

#### DAMPENING SOUND



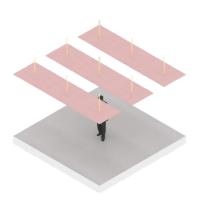
Wood acoustic panel Music



Dampening courtain



Wood acoustic panel + Perforated aluminium



Acoustic ceiling clouds

#### SOUNDPROOF



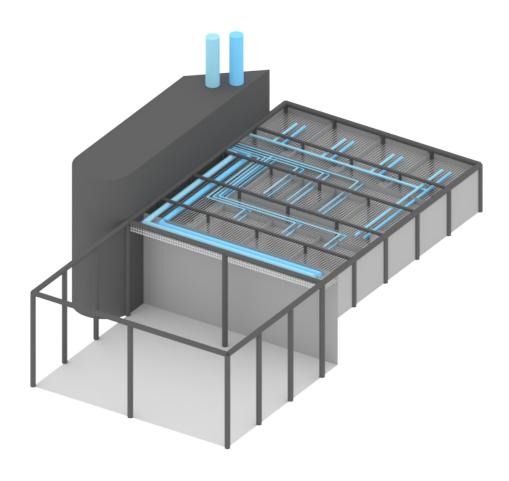
Acoustic insulated walls, ceilings and floors



Triple glass & Airlock double doors

Defined in Dampening and Soundproof elements.
Also the concrete mass helps thanks to its good sound properties and mass

# **ACOUSTIC & MECHANICAL VENTILATION**



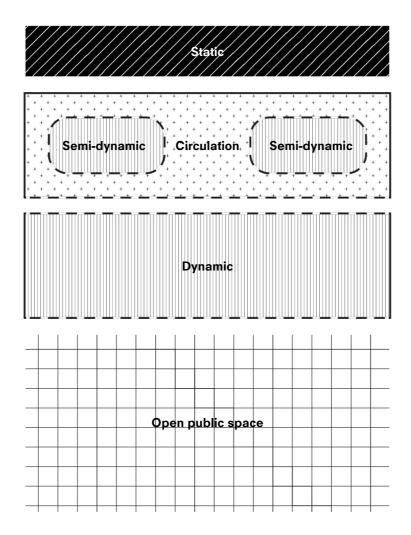
Singular ducts to avoid contamination of noise between different rooms.

False ceiling to hide the system



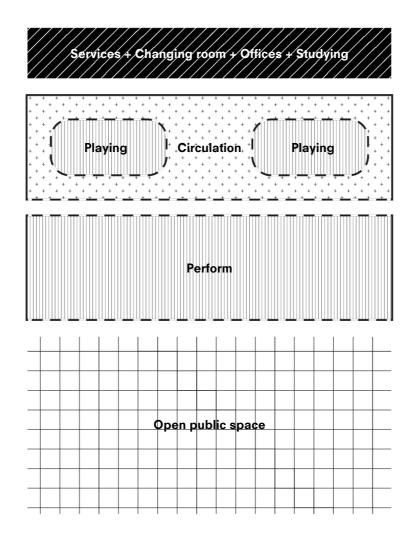
# **ARCHITECTURAL LOGIC**

# **SPATIAL CONCEPT**



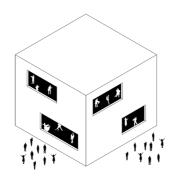
In order to achieve both physical and virtual relationships

# **SPATIAL CONCEPT**



In order to achieve both physical and virtual relationships

# **VISUAL RELATIONSHIPS**





Performer - Neighborhood

Performer - Performer





Performer - Visitor

Performer - Outdoor

Interaction between differet users



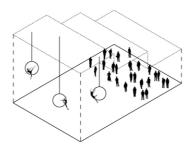
# **URBAN IMPLEMENTATION 1:500**

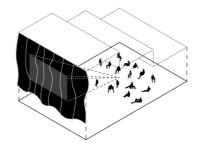






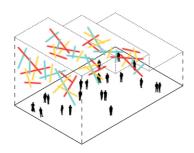
# **COVERED STAGE**

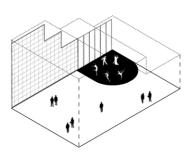




Performance

Movie night





Lights performance

material

Multiple uses

# **VIEW FROM THE OPEN PUBLIC SPACE**



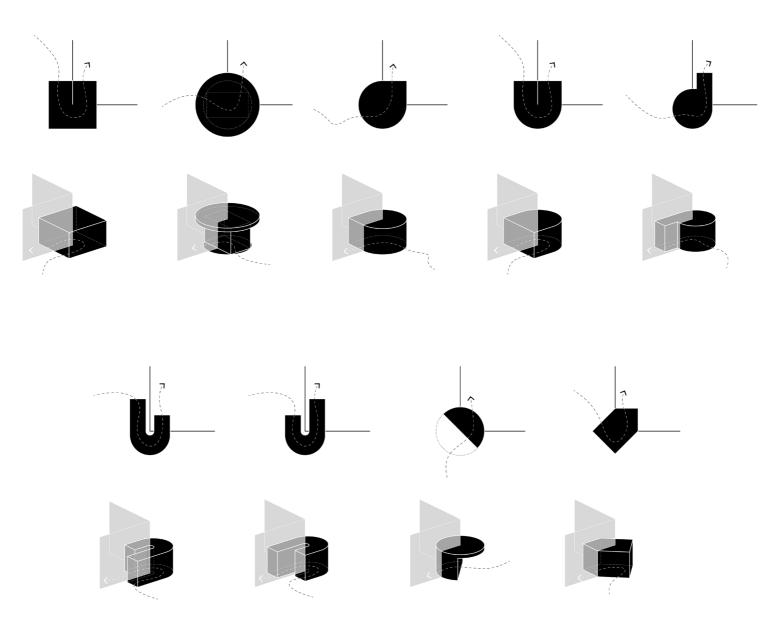
Approaching attracted by elements of interaction

# **AVOID REVOLVING DOOR**



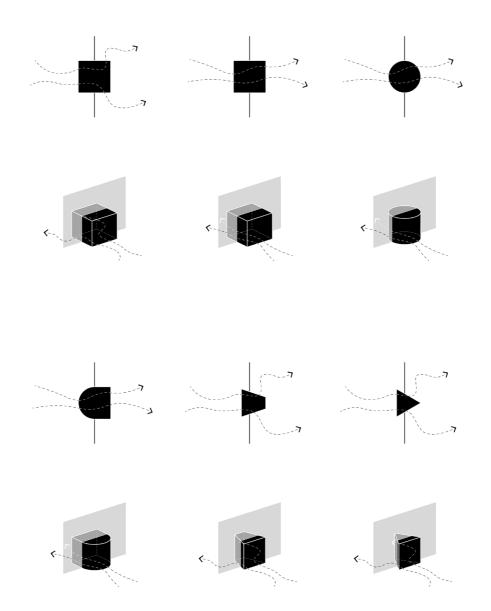
Ugly - To be avoided

# **CORN ENTRANCE**



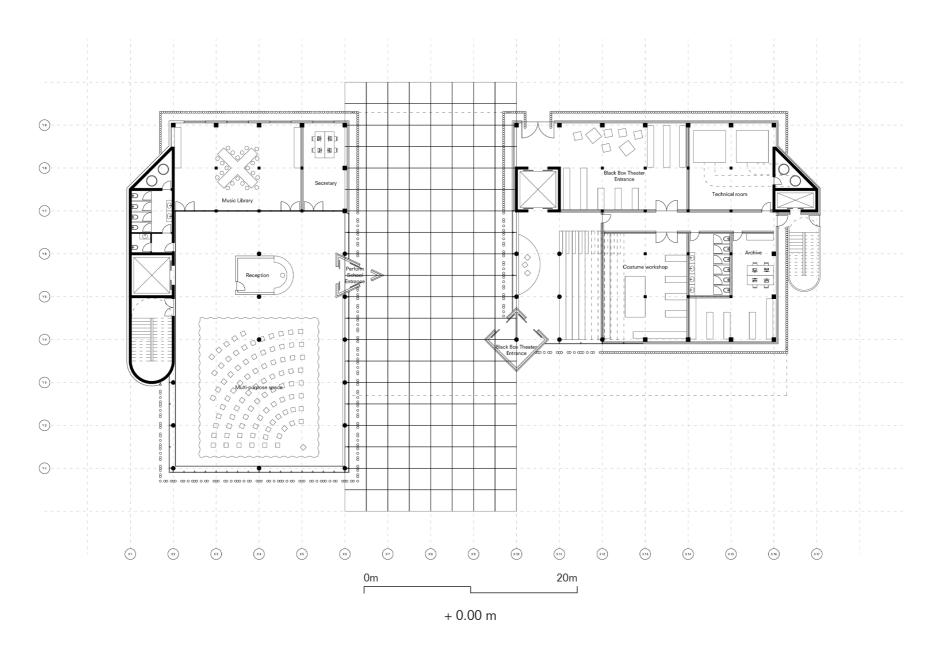
To mitigate the wind tunnel effect

# **FLAT ENTRANCE**



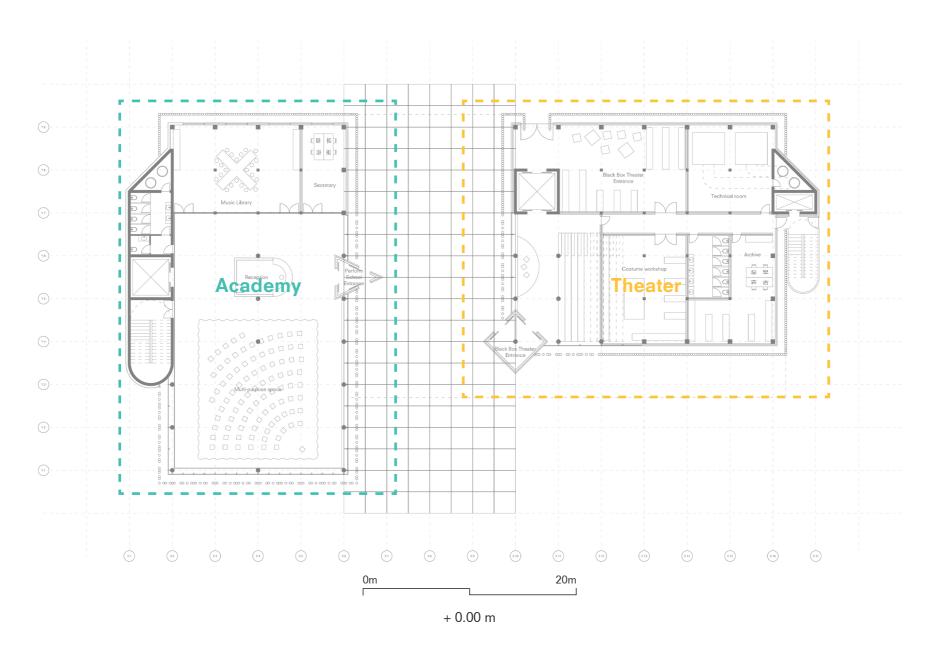
To mitigate the wind tunnel effect

# **GROUND FLOOR**





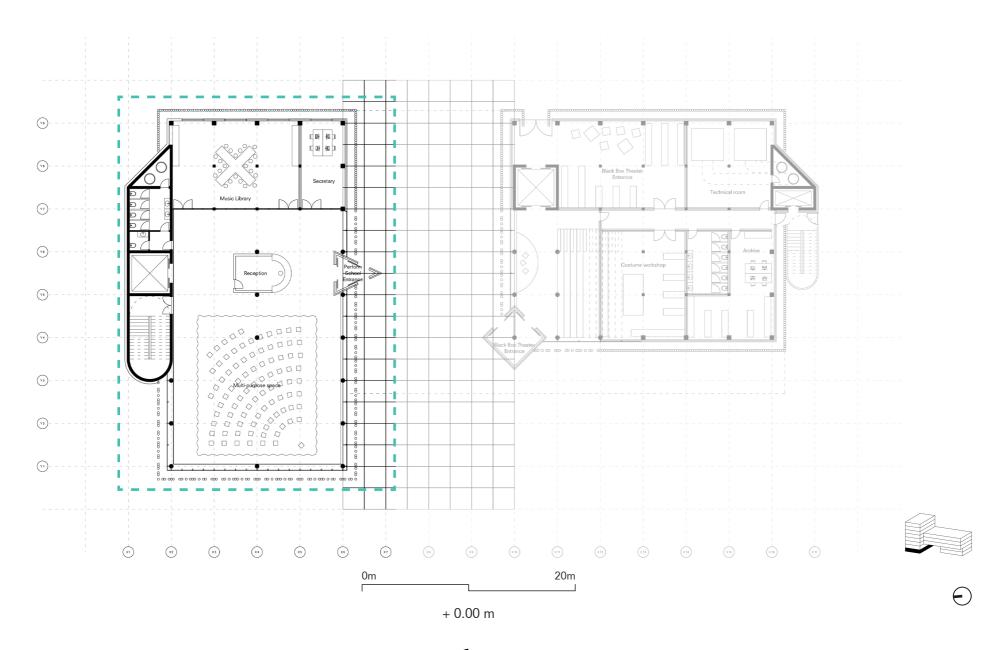
#### **GROUND FLOOR**





# **ACADEMY**

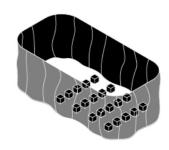
# **GROUND FLOOR**



#### Flexibility

# **MULTIPURPOSE SPACE**





Kids activity

Discussion Event

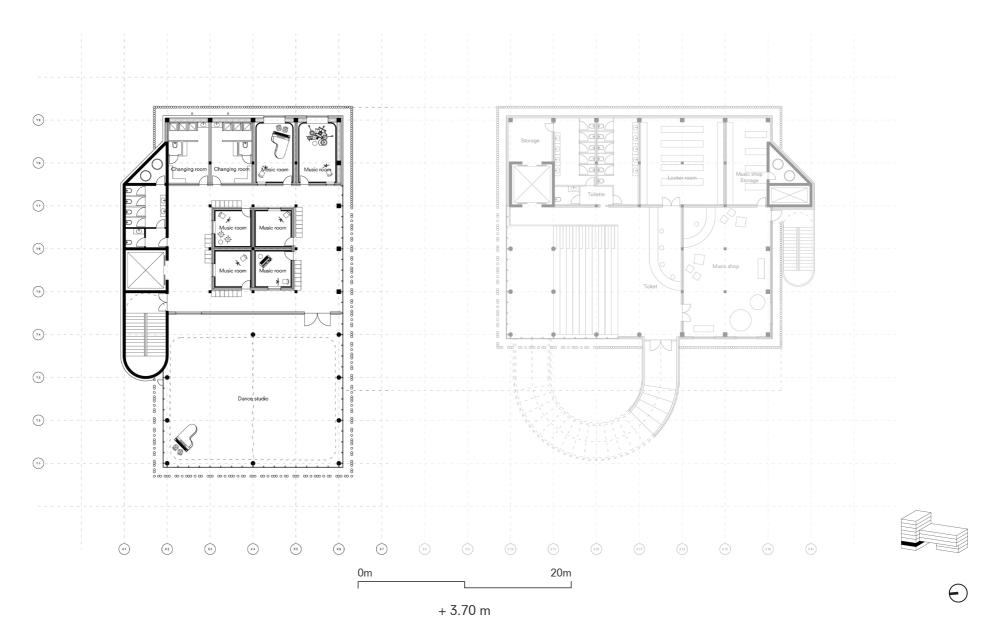
# MULTIPURPOSE SPACE



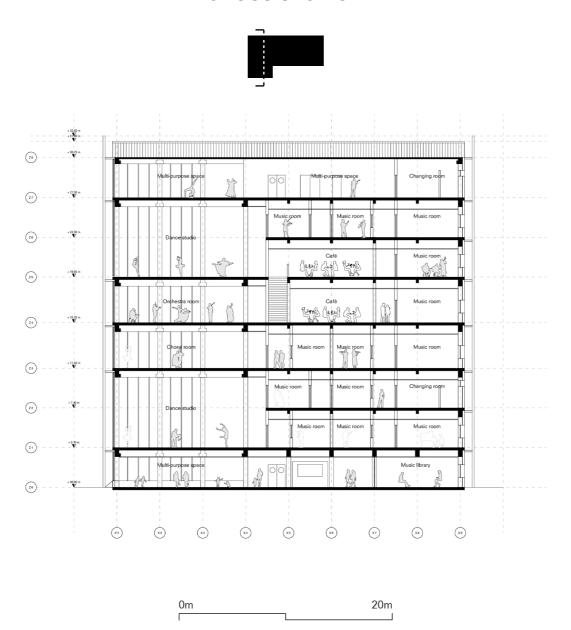
# MULTIPURPOSE SPACE



# 1st FLOOR

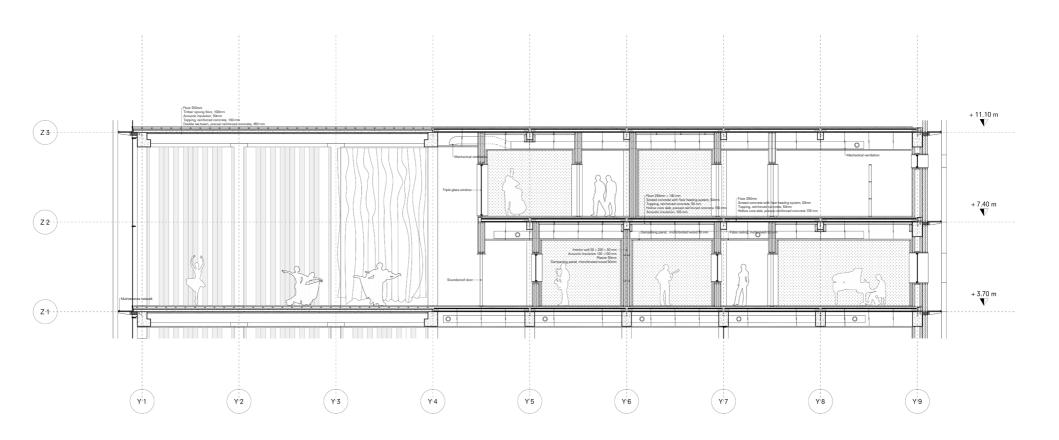


# **CROSS SECTION**



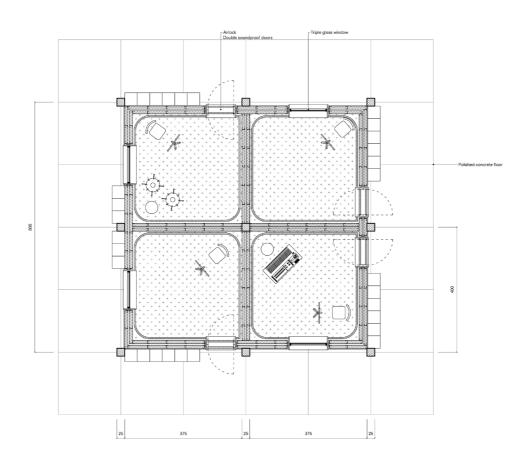


#### FRAGMENT LEARNING PERFORMANCE 1:50



0m 10m

# **FRAGMENT MUSIC 1:50**



0m 10m

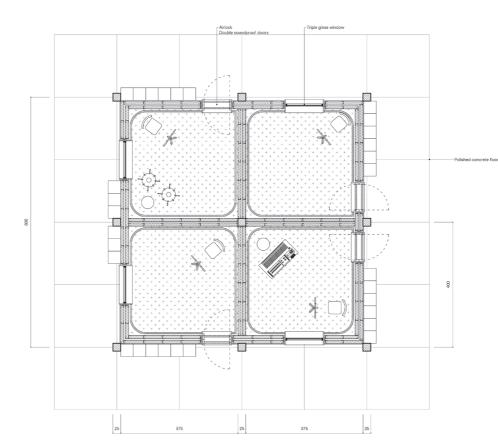
# **FRAGMENT MUSIC 1:50**



Wood acoustic panel Music



Acoustic ceiling clouds





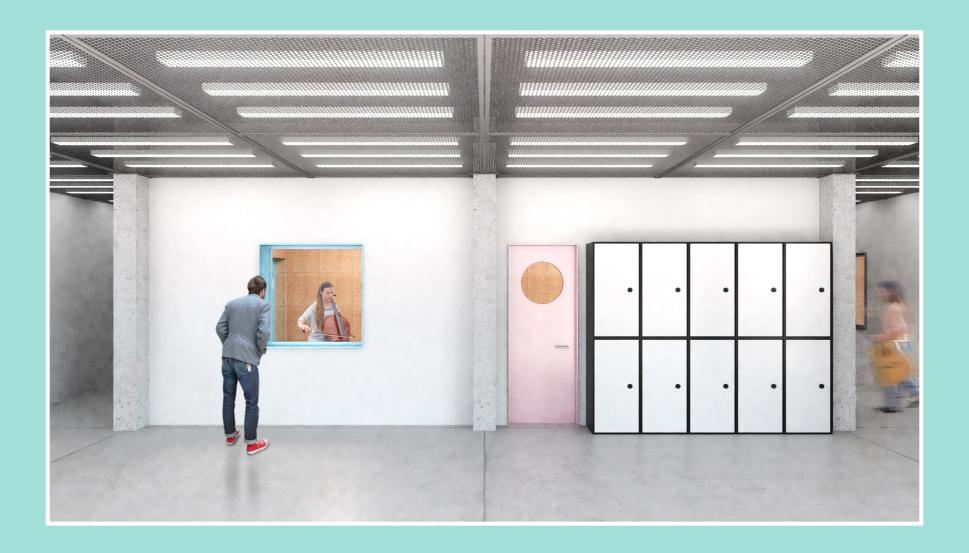
Acoustic insulated walls, ceilings and floors



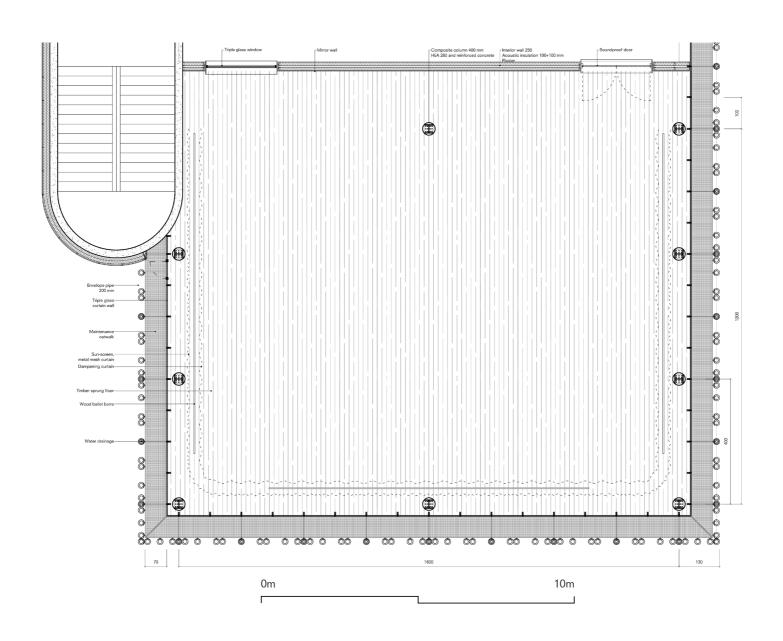
Triple glass & Airlock double doors

0m 10m

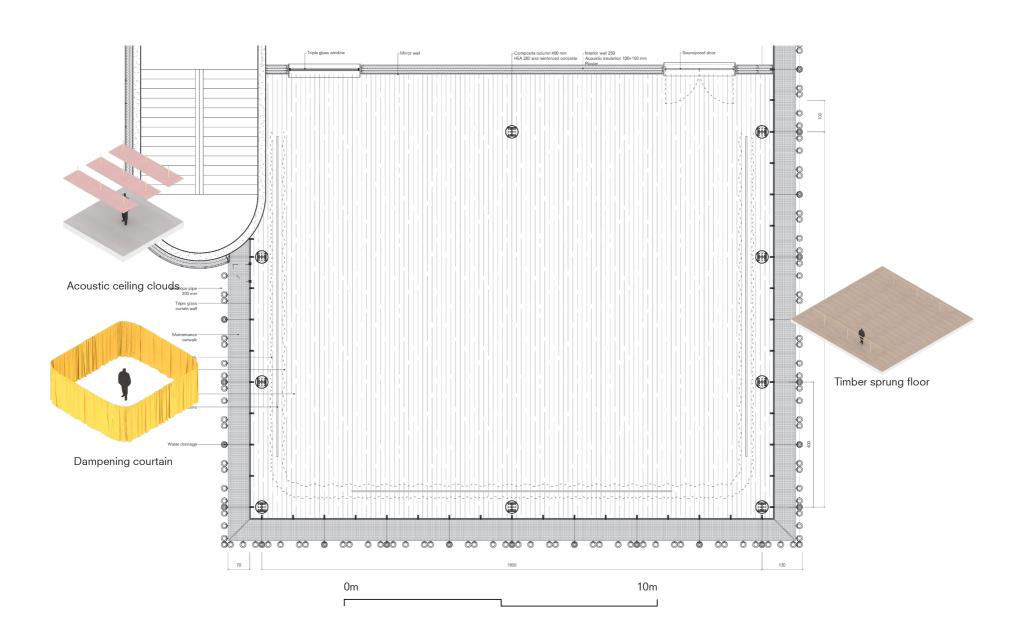
# MUSIC ROOM



## **FRAGMENT MAIN DANCE STUDIOS 1:50**



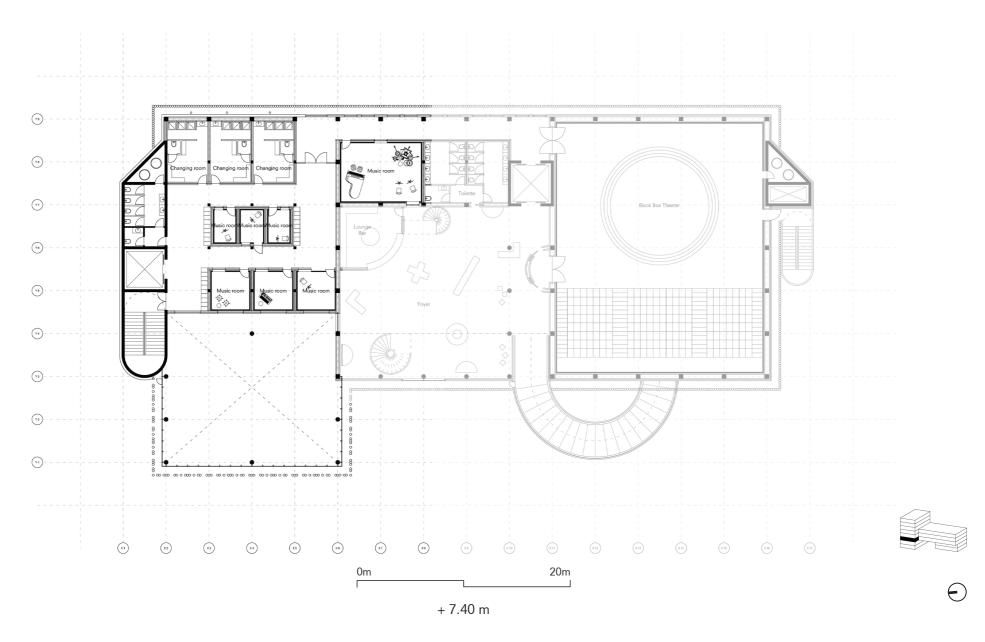
### **FRAGMENT MAIN DANCE STUDIOS 1:50**



# DANCE STUDIO



## 2nd FLOOR

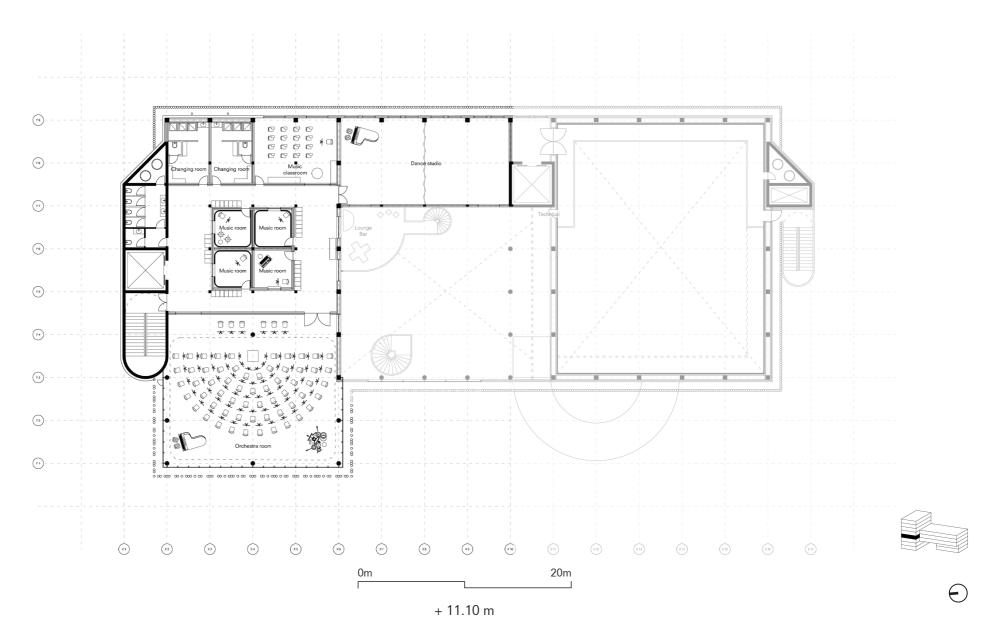


# **DANCE STUDIO**

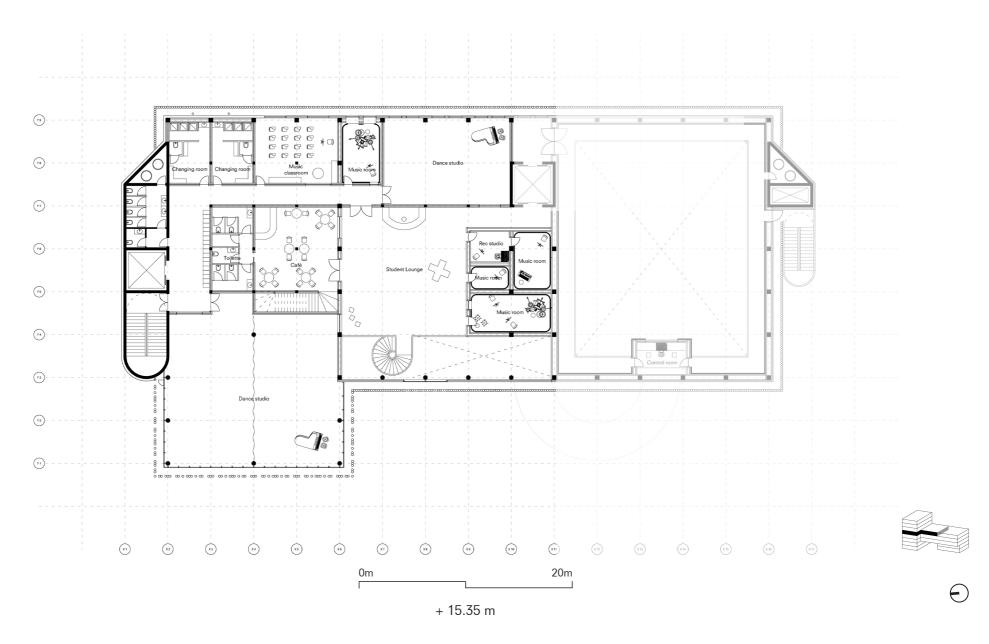


Double height space provides interaction between different performers

### 3rd FLOOR



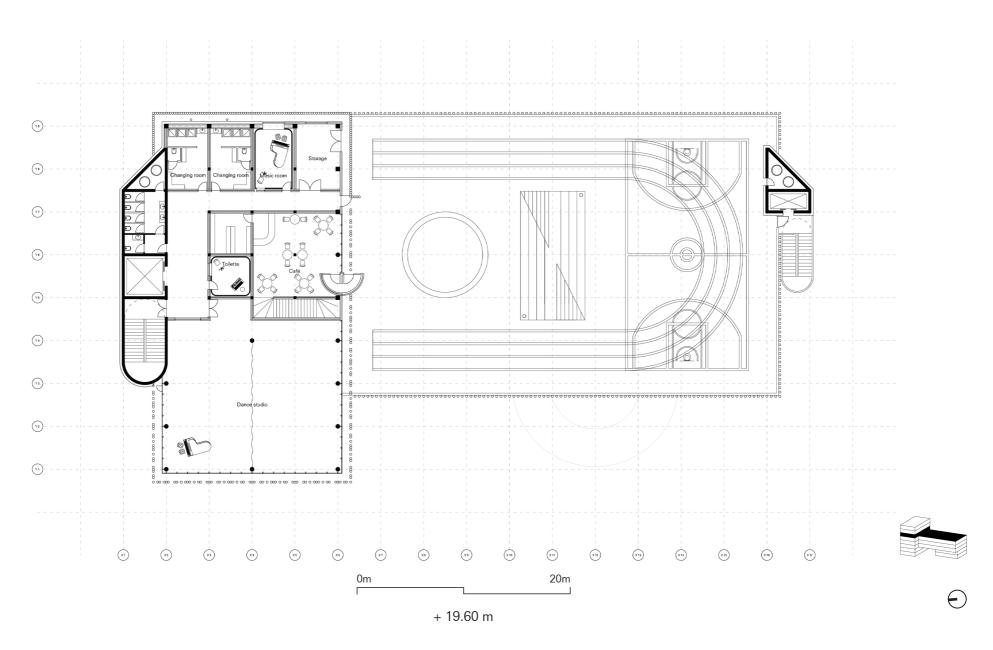
### 4th FLOOR



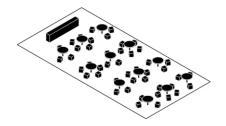
# PERFORMERS LOUNGE

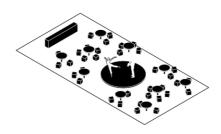


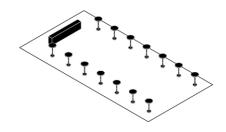
## 5th FLOOR



# CAFÉ







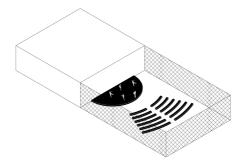
Day Perform Event

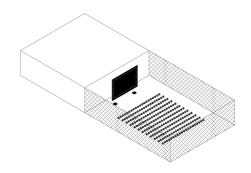
# CAFÉ

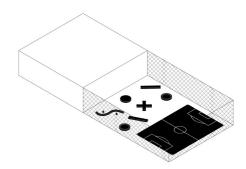


### Academy

### **UPPER STAGE**







Performance Movie night Play

# AN ACCESSIBLE ROOF WHERE TO PERFORM



A central tribune defines the space

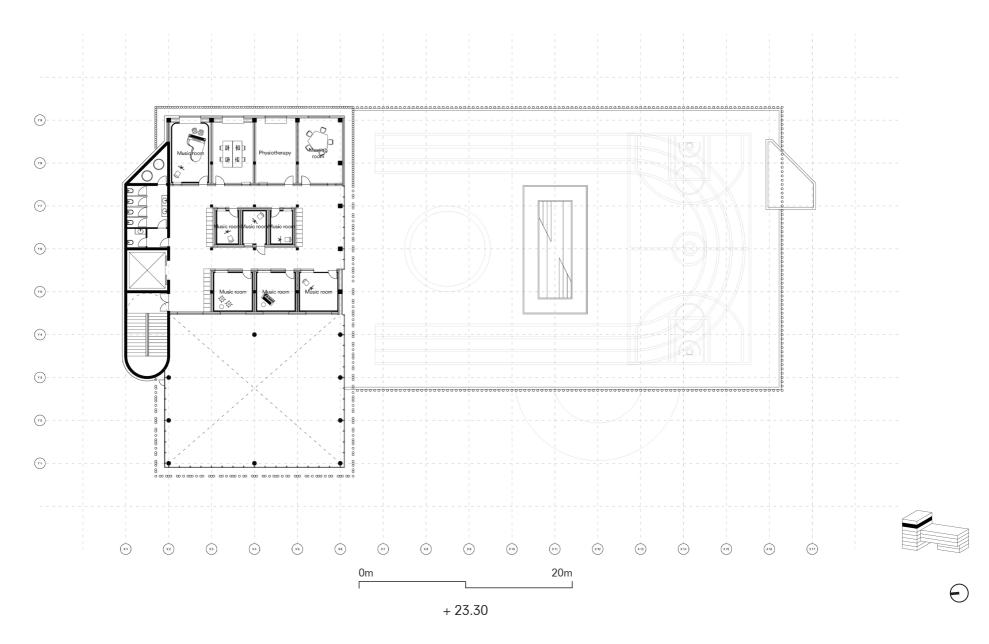
193

# AN ACCESSIBLE ROOF WHERE TO PLAY

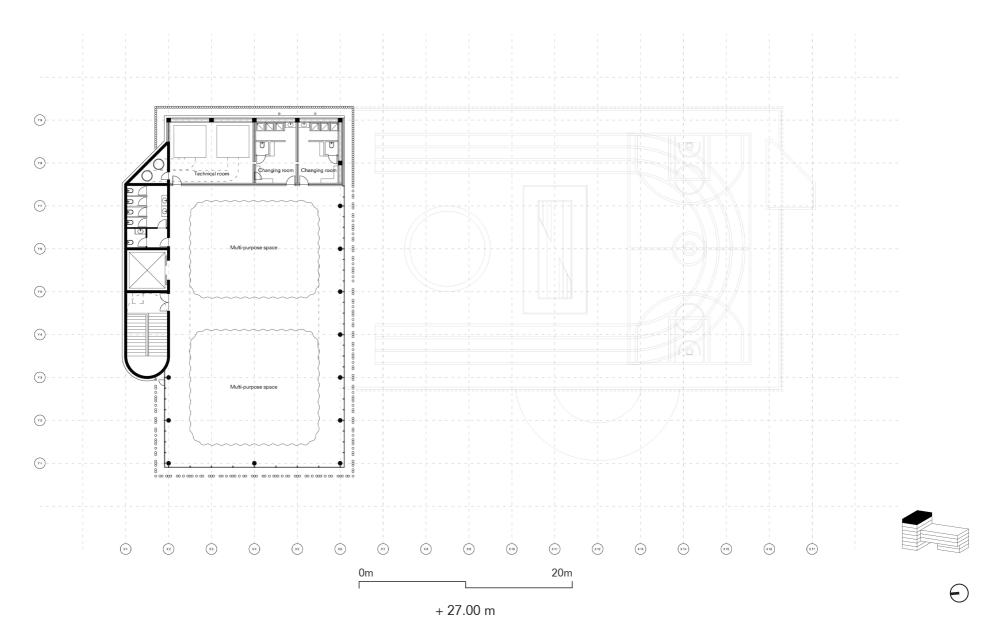


A central tribune defines the space

## 6th FLOOR



## 7th FLOOR



### **MULTIPURPOSE**





Performance





VR Performance



MIXED Reality Performance

# MULTIPURPOSE FLOOR

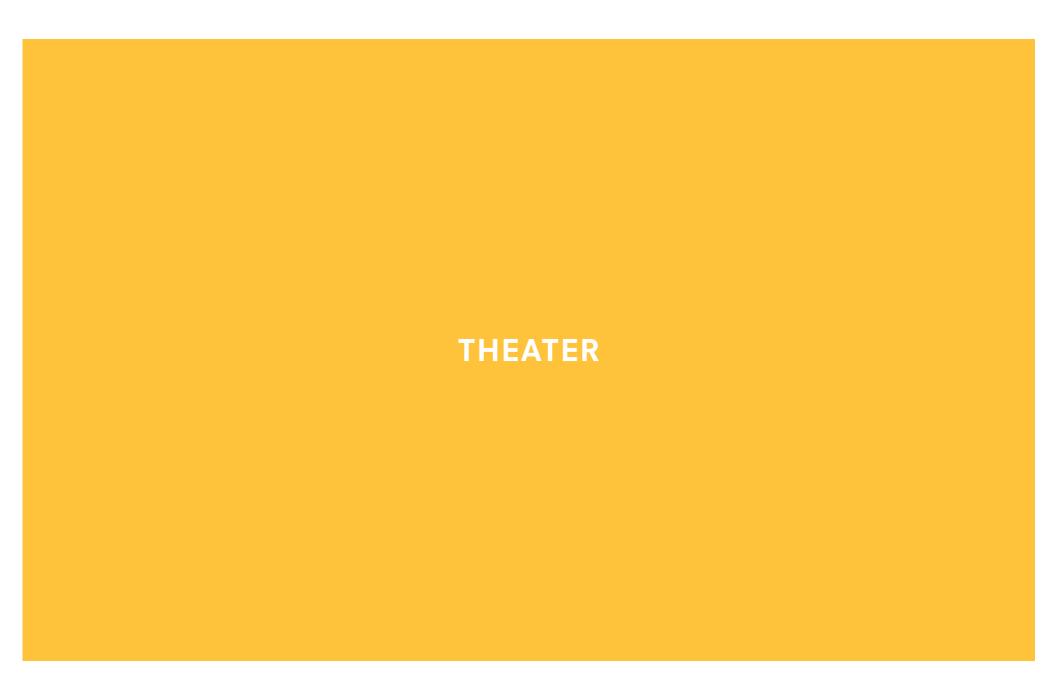


### Academy

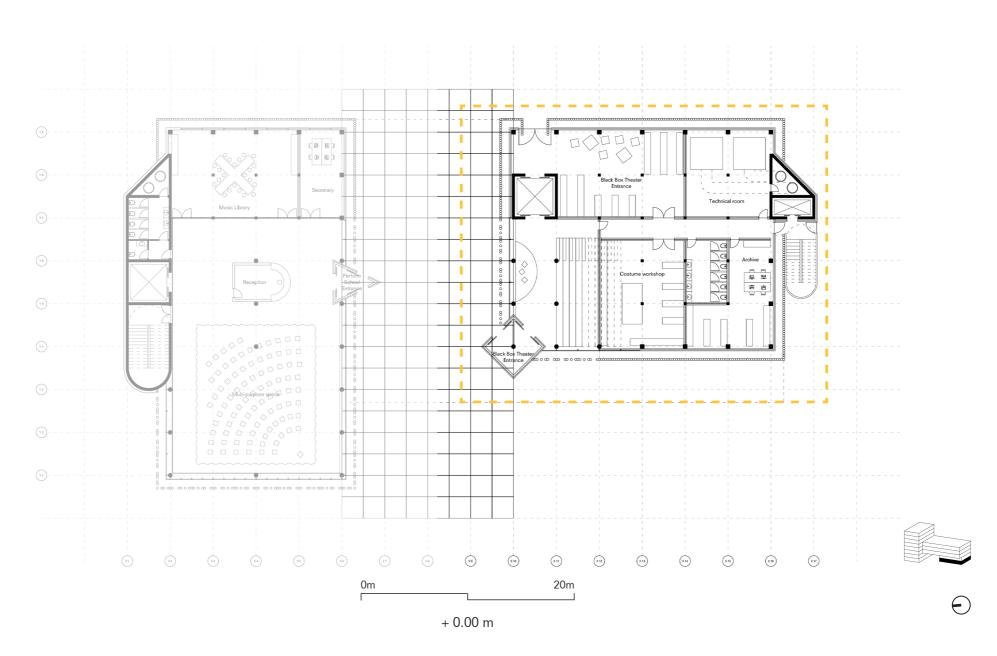
# MULTIPURPOSE FLOOR



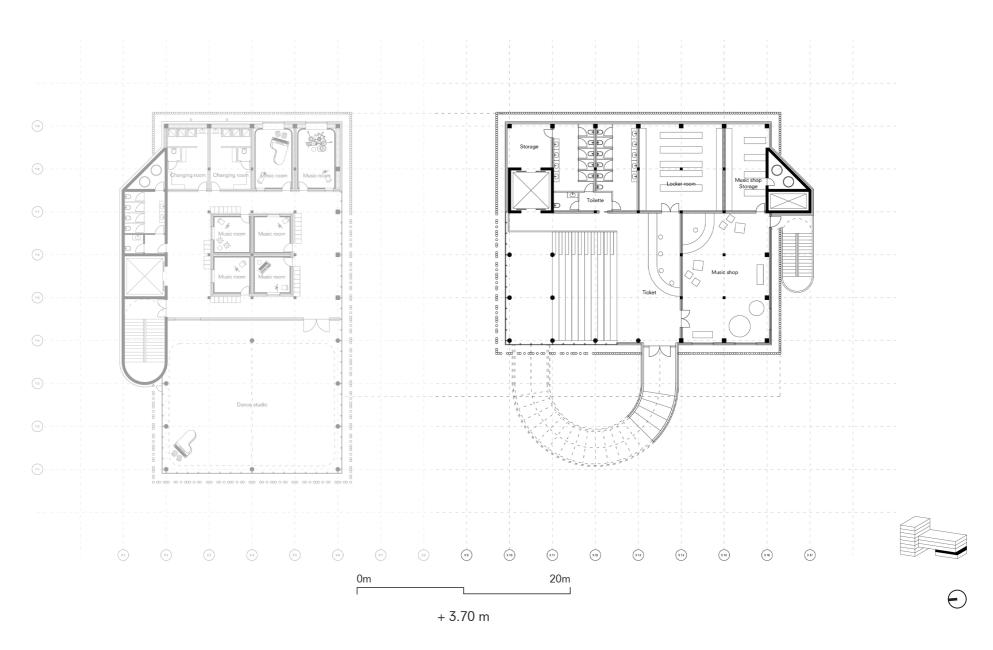
As public exhibition space



### **GROUND FLOOR**

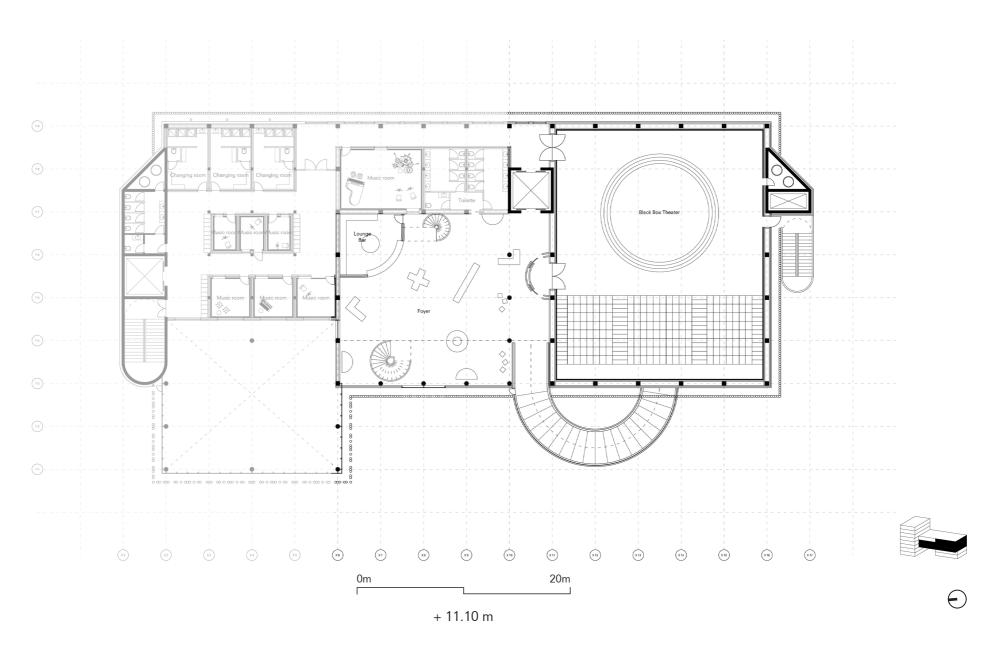


## 1st FLOOR



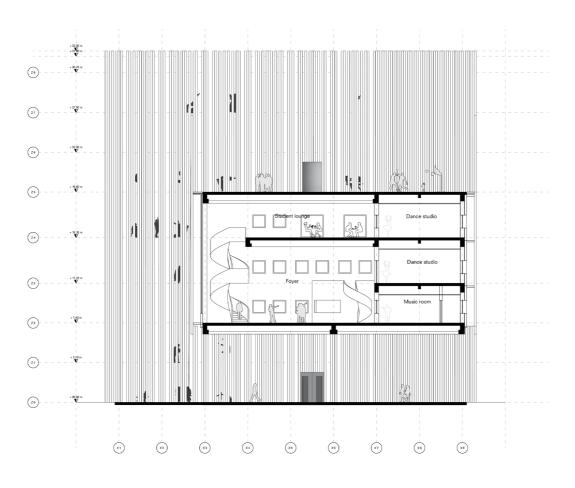


## 3rd FLOOR



## **CROSS SECTION**







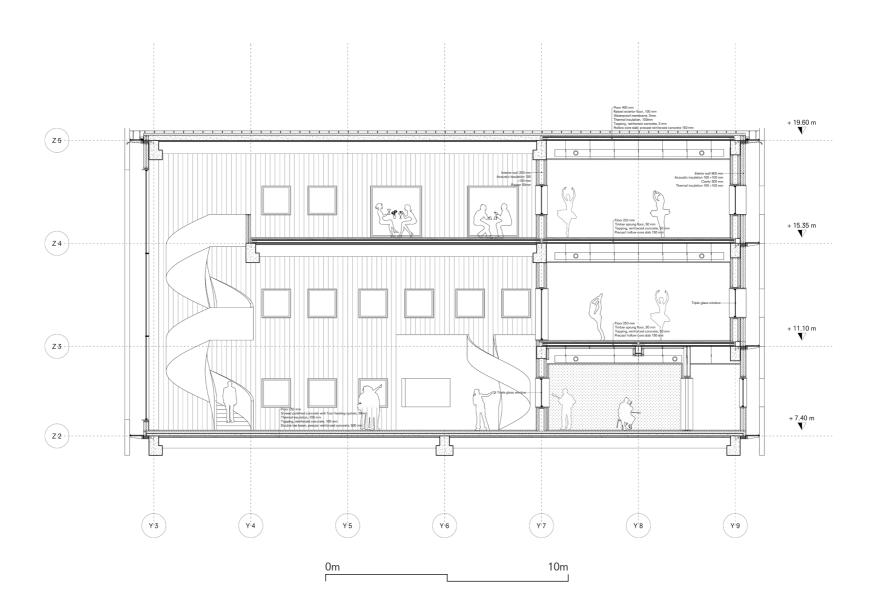


### **FOYER**

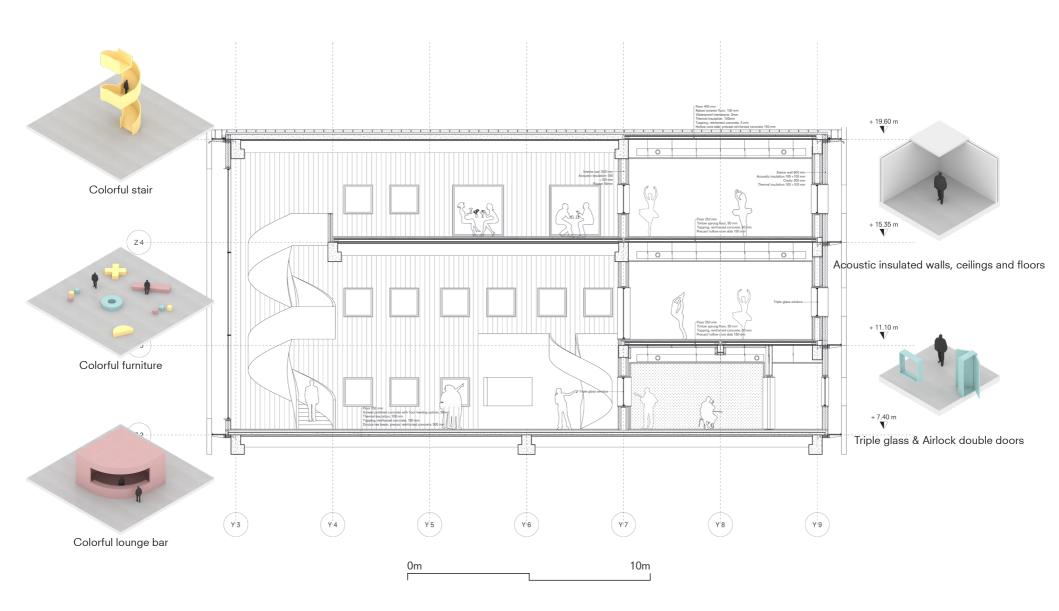


To enjoy a cocktail before the show and having also a visual interaction with the academy's performers

### **FRAGMENT FOYER 1:50**



### **FRAGMENT FOYER 1:50**



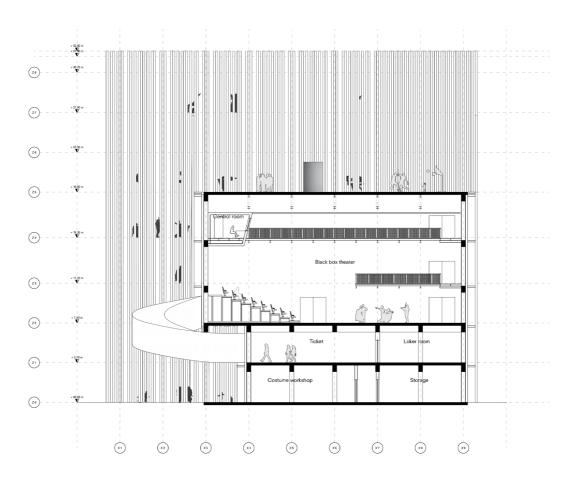
### **FOYER**



A nice view over the Open public space

## **CROSS SECTION**

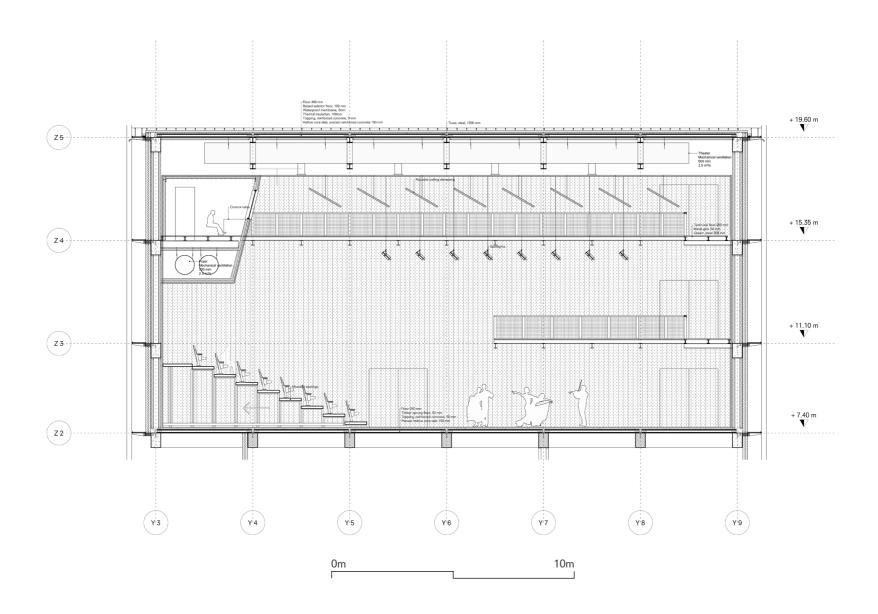




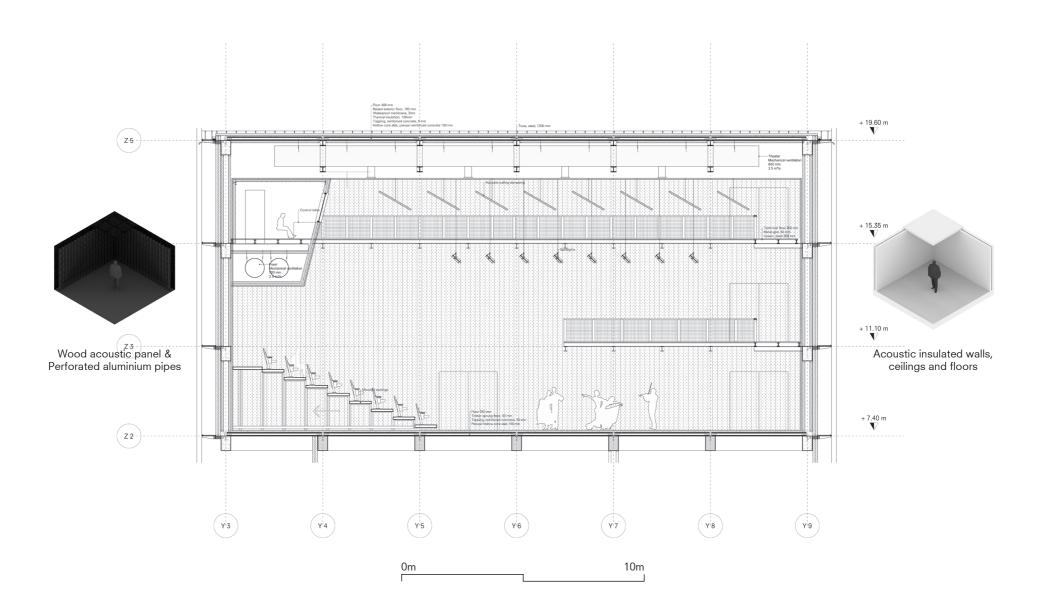




### FRAGMENT BLACK BOX THEATER 1:50

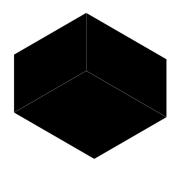


### FRAGMENT BLACK BOX THEATER 1:50

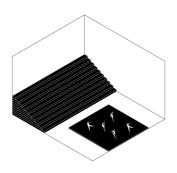


### Theater

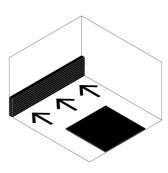
### **BLACK BOX THEATER**



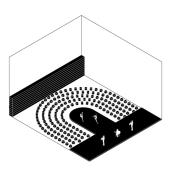
Play



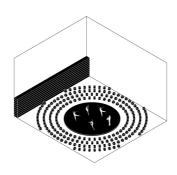
Standard Stage



Flexible Stage

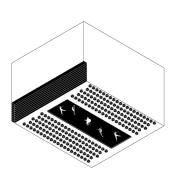


Thrust Stage



Arena Stage

Flexible arrangement



Traverese Stage

### Theater

### **TYPES OF PERFORMANCES**



Black Box Theater



Music performance



Dance performance



Fixed scenography performance



Light performance



Light performance



Interactive light performance



Mixed reality performance

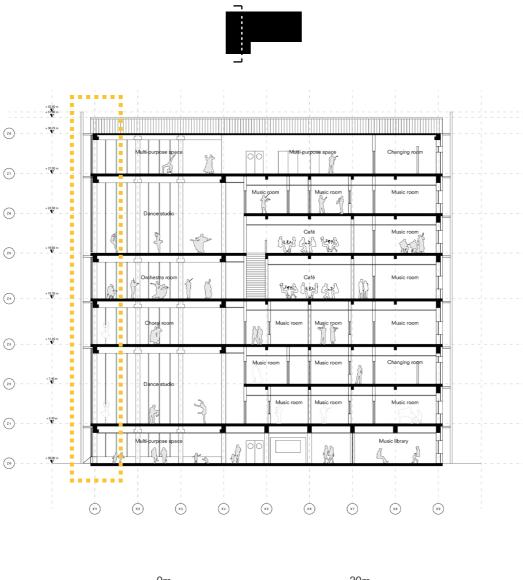
Different experience performances.
From more traditional to future oriented augmented reality ones

Hotel New York





### **CROSS SECTION**





#### Envelope

### FROM INSIDE TO OUTSIDE ENVELOPE



Exposed concrete



Dampening curtain



Metal mesh curtain sun screen

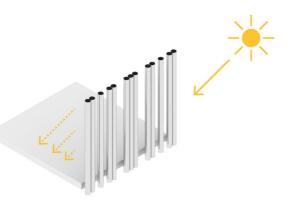


Triple glass curtain wall

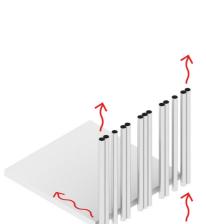


Open & Closed envelope

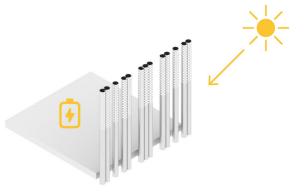
### REFLECTIVE ANOIZED ALUMINIUM PIPES MULTIPLE-FUNCTION



Sun screen



Heat pump system



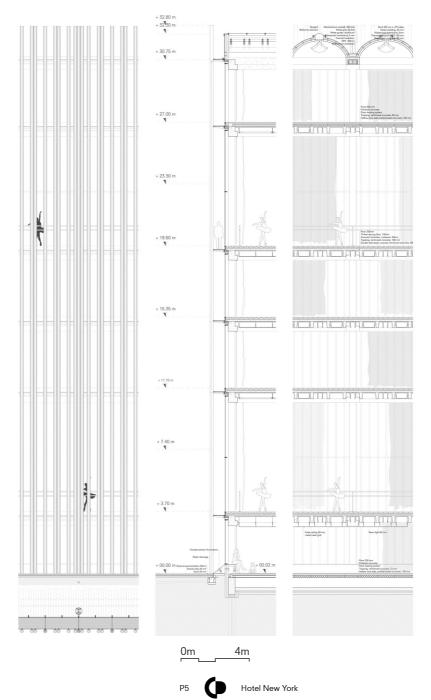
Adhesive (transparent) PV cells - Solar energy



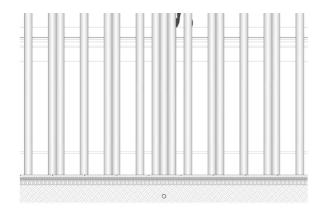
Rain water gutter

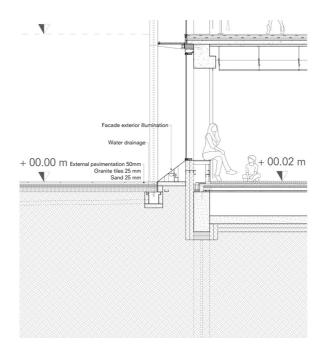
# **OPEN & CLOSED**

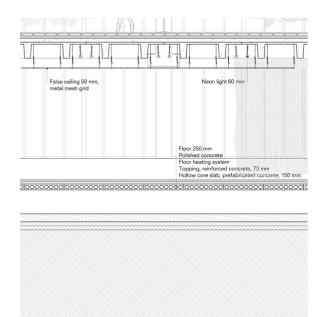




#### Envelope





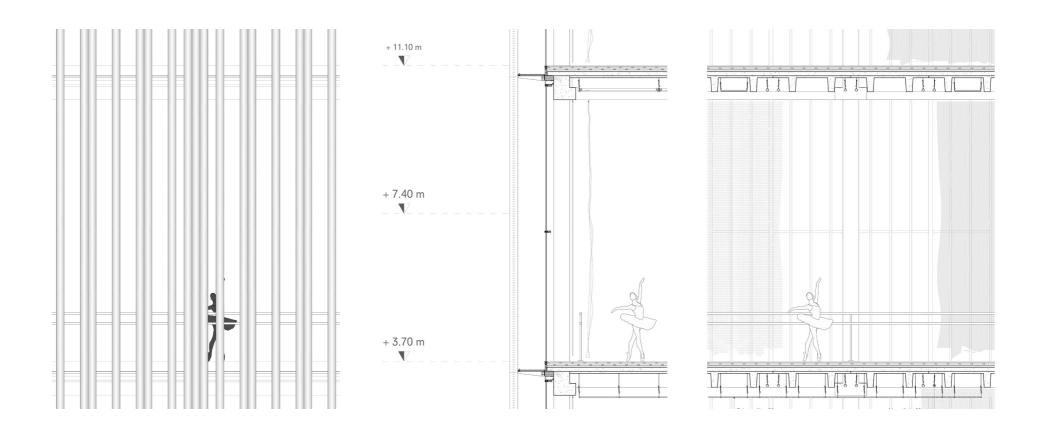




# **OPEN & CLOSED**

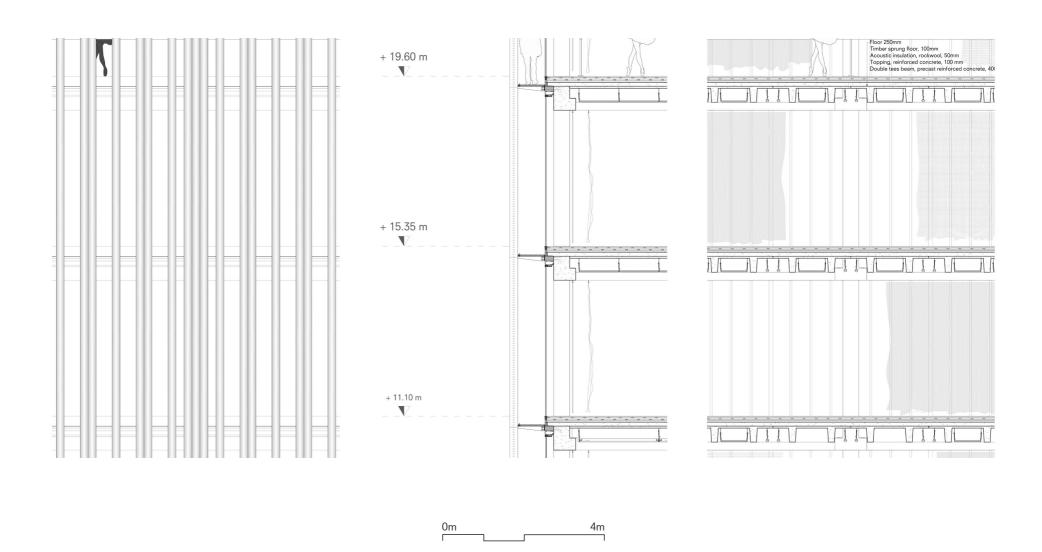


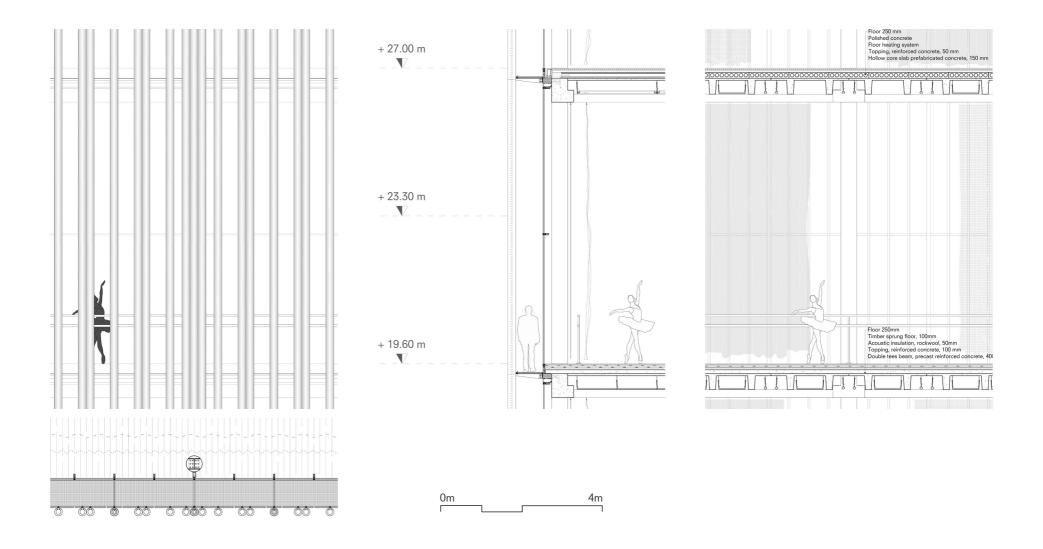
To highlight even more the rhythm of the envelope

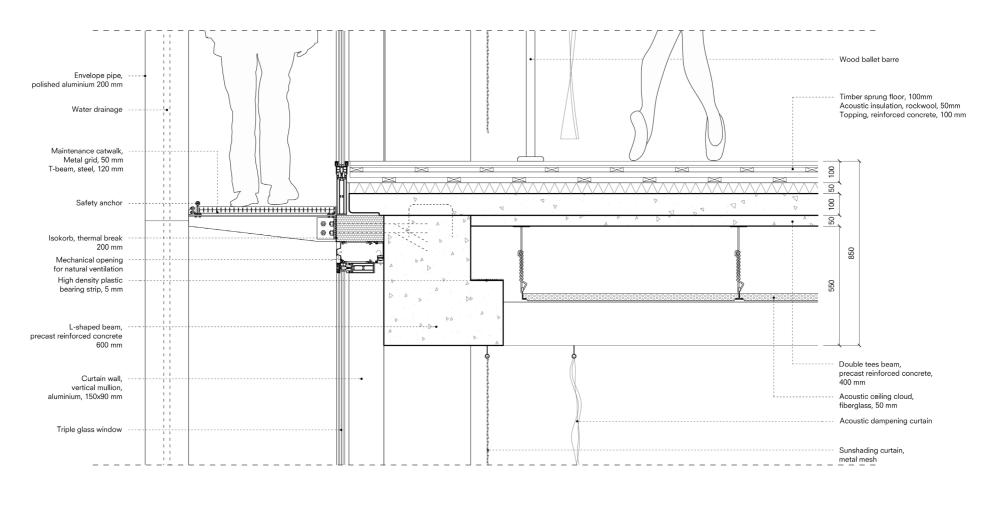




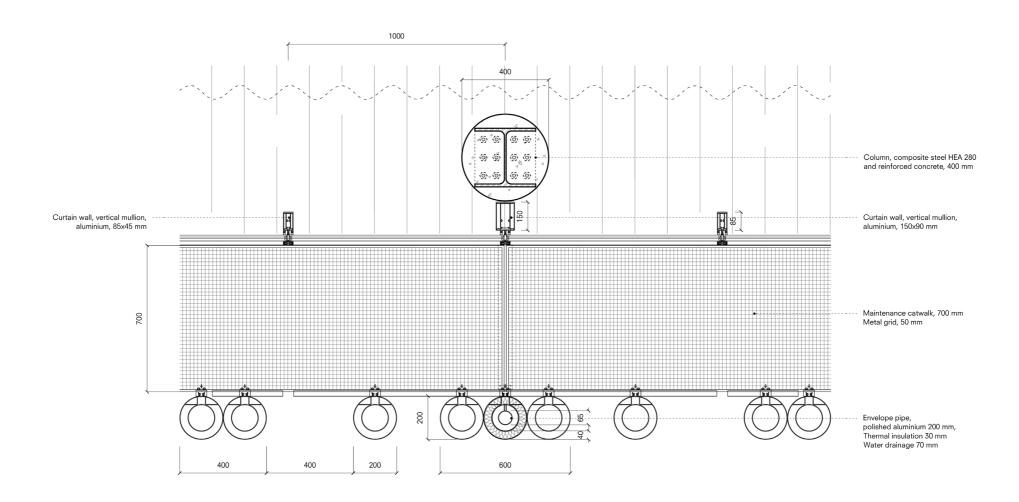
#### Envelope



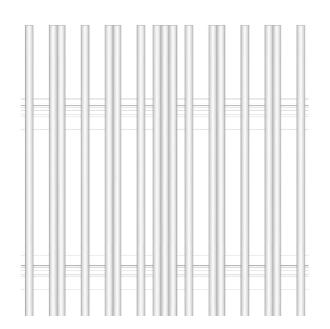


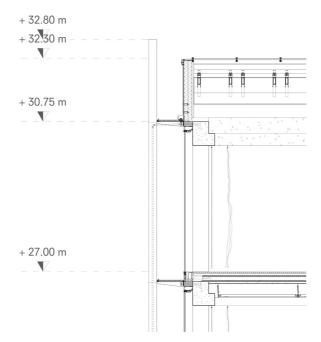


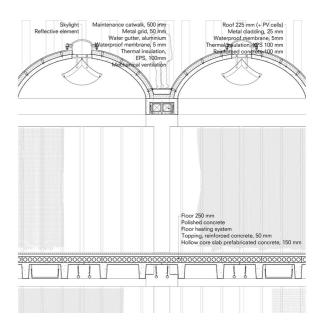
0mm 1000mm





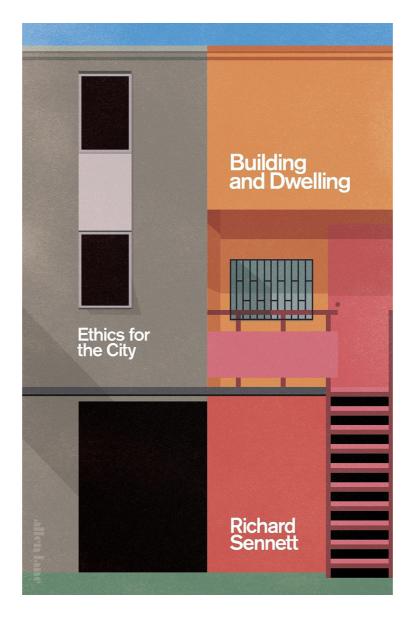












Ville vs Cité

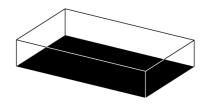
Sky-line vs Ground-line

International city vs Historical neighborhood

There is not a main user, but it is important to provide a new scenario, where the border condition is blurred by the co-existance of different users, realities and scales.

An OPEN & CLOSED public space in Rotterdam









**Black Box Theater** Performing art center with a flexible character

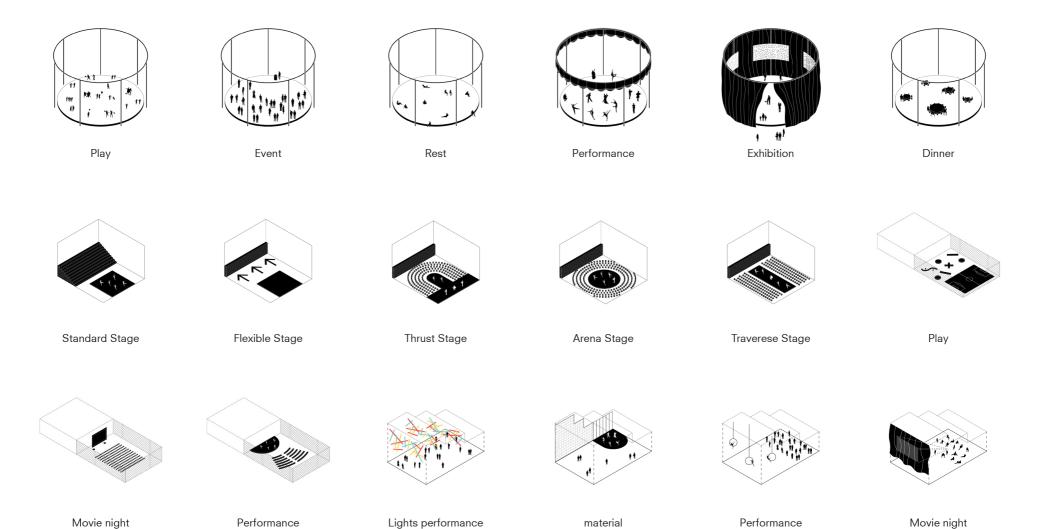
Upper stage Public space with an elevated point of view to the City

Cover stage Possibility to use the ceiling during the performance

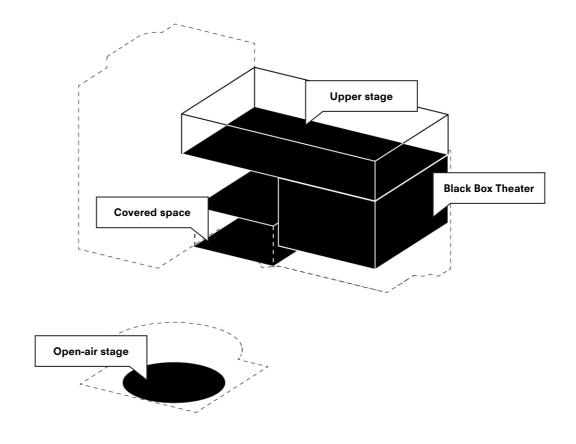
Open-air stage The historical and new facades as scenography

Different stages

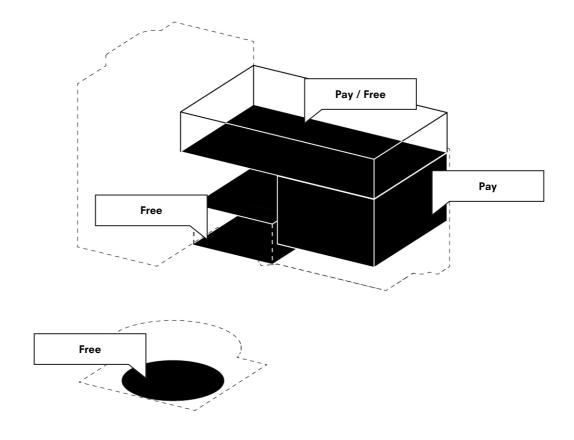
#### **PERFORMING STAGES**



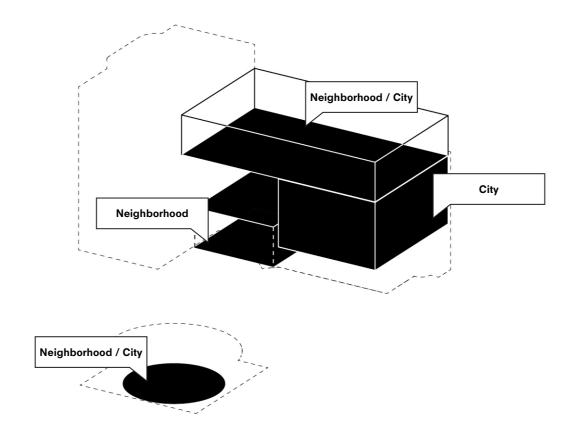
Multiple uses



Different possibilities



Different accesses



Referring to different audiences

# **CLOSED PUBLIC SPACE**

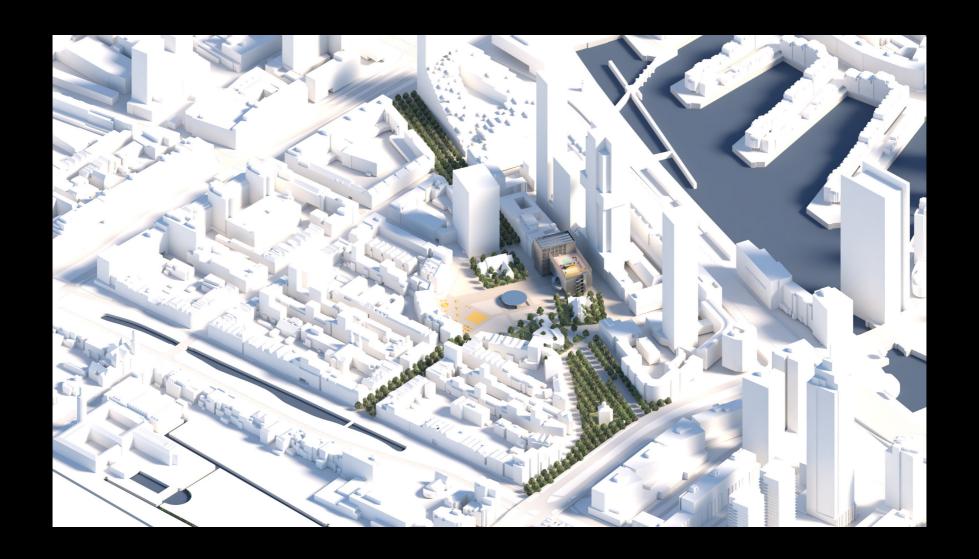


# **OPEN & CLOSED PUBLIC SPACE**

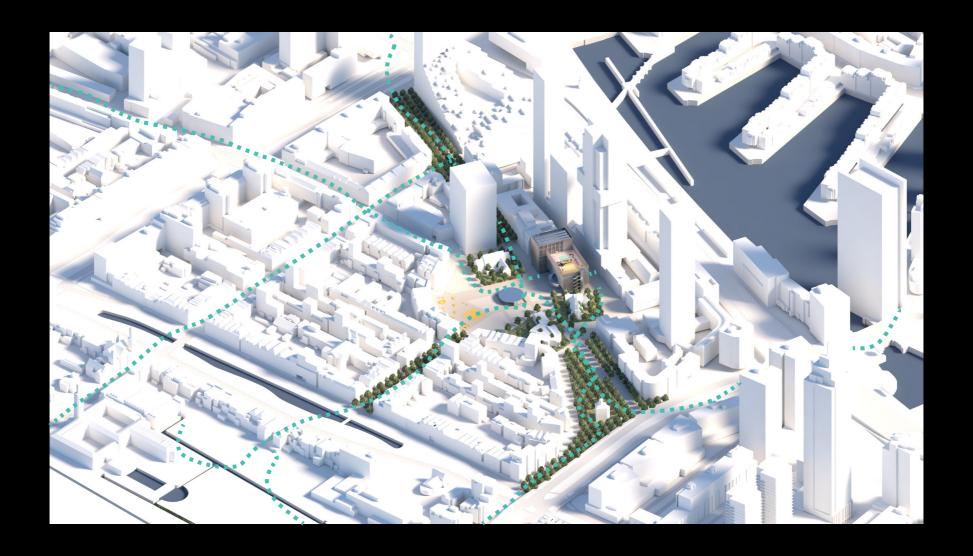


Adapted to different users / actors

## OPEN & CLOSED PUBLIC SPACE WITHIN THE NEIGHBORHOOD & THE CITY

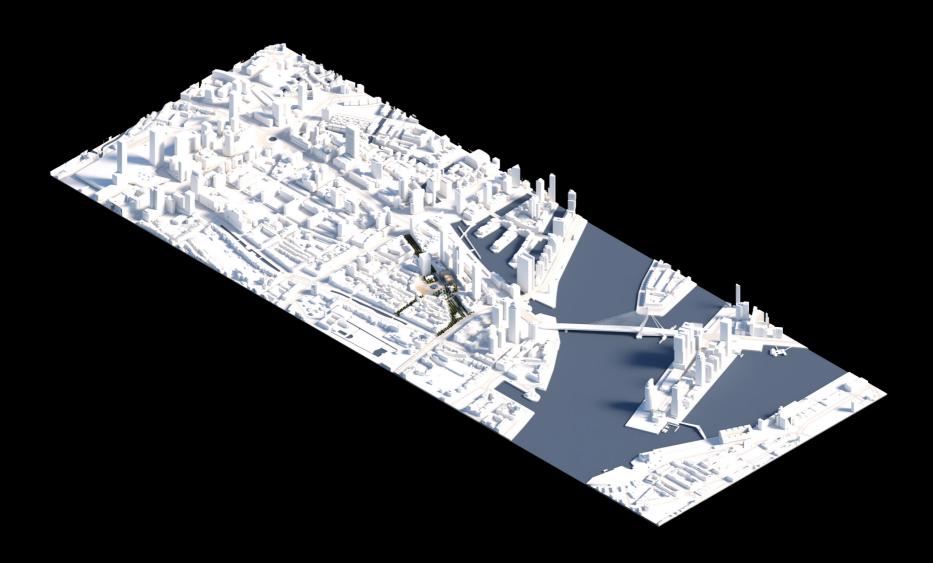


## ADAPTED TO DIFFERENT ACTORS AND SURROUNDINGS



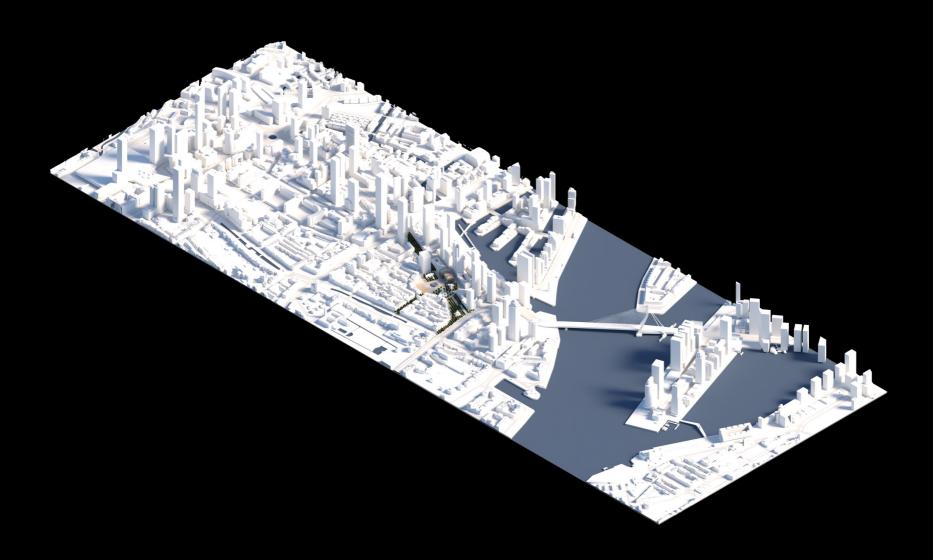
Playground / Garden / Stage / Passage / Work / Live / Study / Manifest / Religious / Culture / Festival

## **ROTTERDAM 2030**



Responding to the future growth and needs of Rotterdam and Rotterdammers

## **ROTTERDAM 2040**



Responding to the future growth and needs of Rotterdam and Rotterdammers

