# HOUSE OF TEXTILES

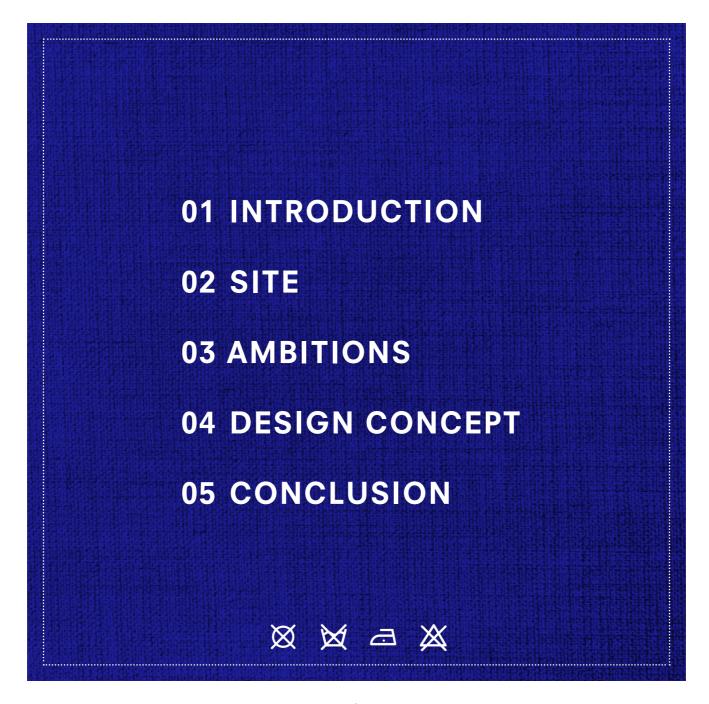
Flagship Experience Center

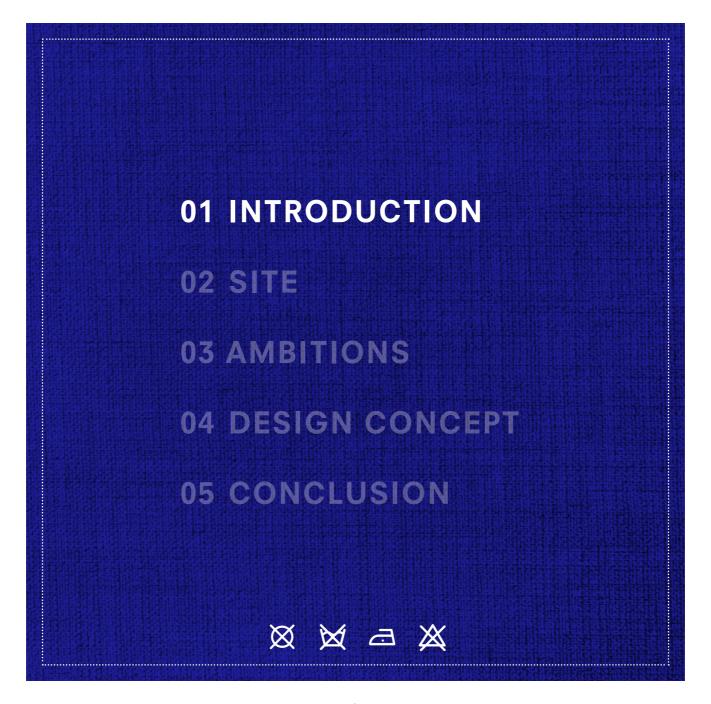
made in beirut

COMPLEX PROJECTS
Edda von Hodenberg

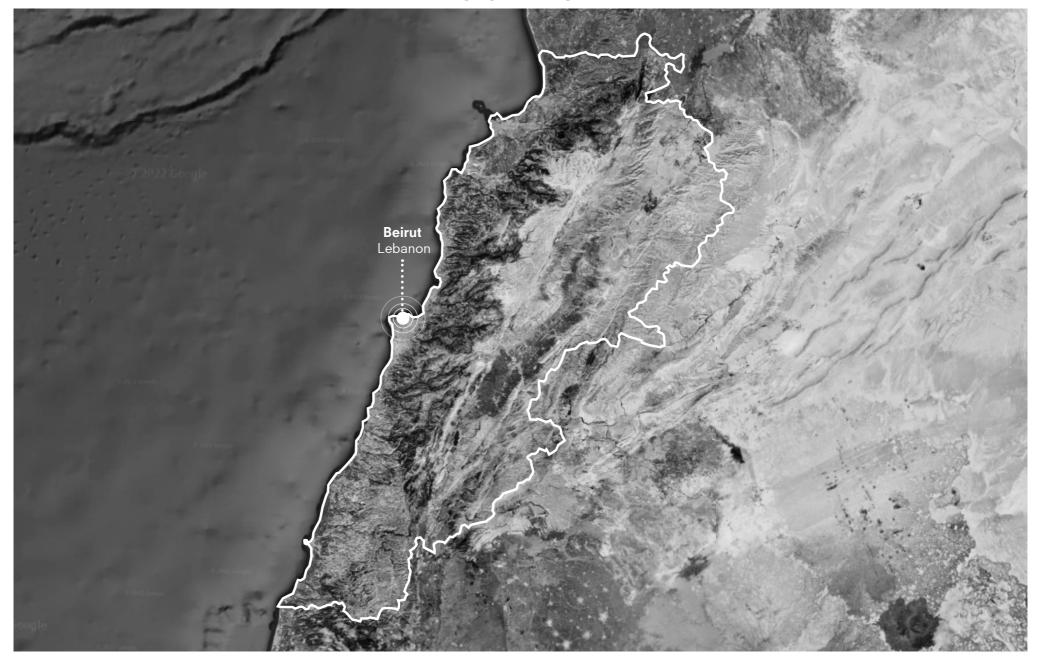


P5 15.06.2022





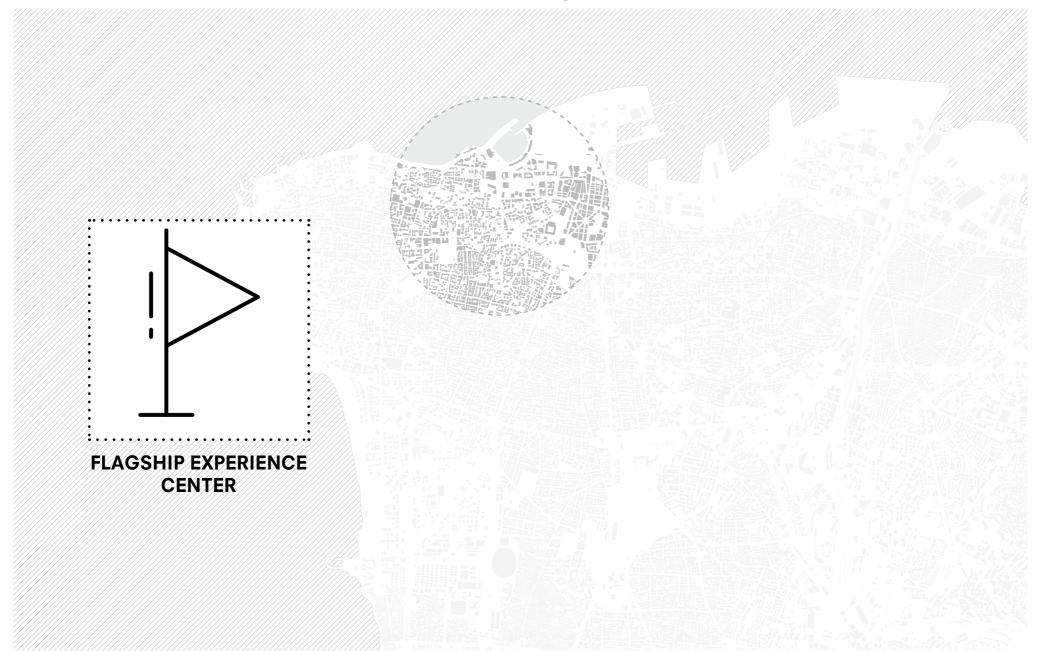
# **LOCATION**



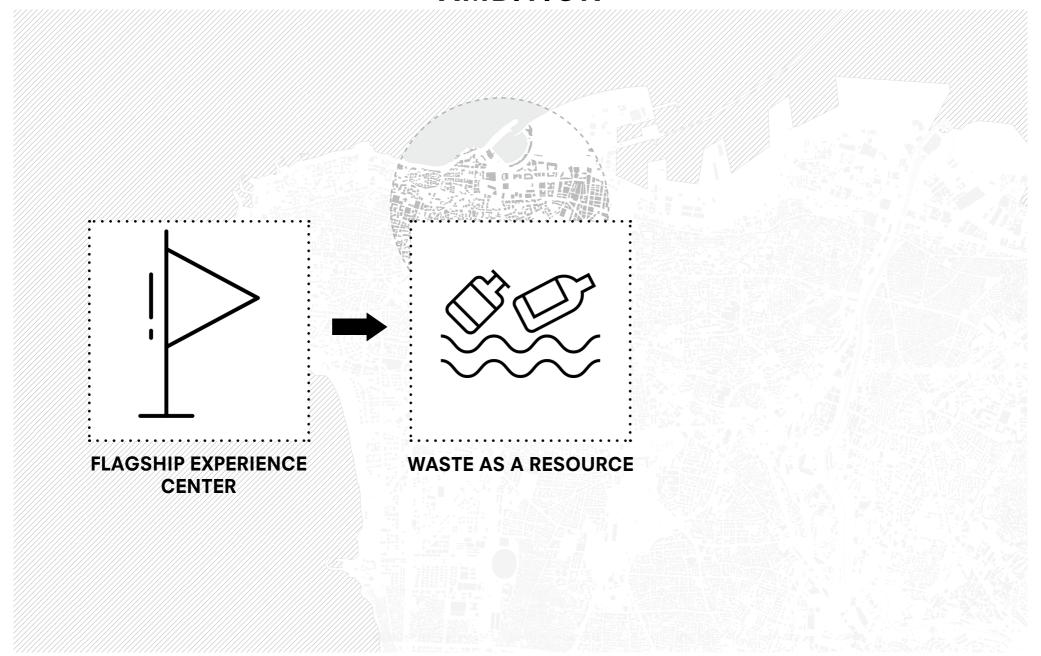
# **URBAN CONTEXT**



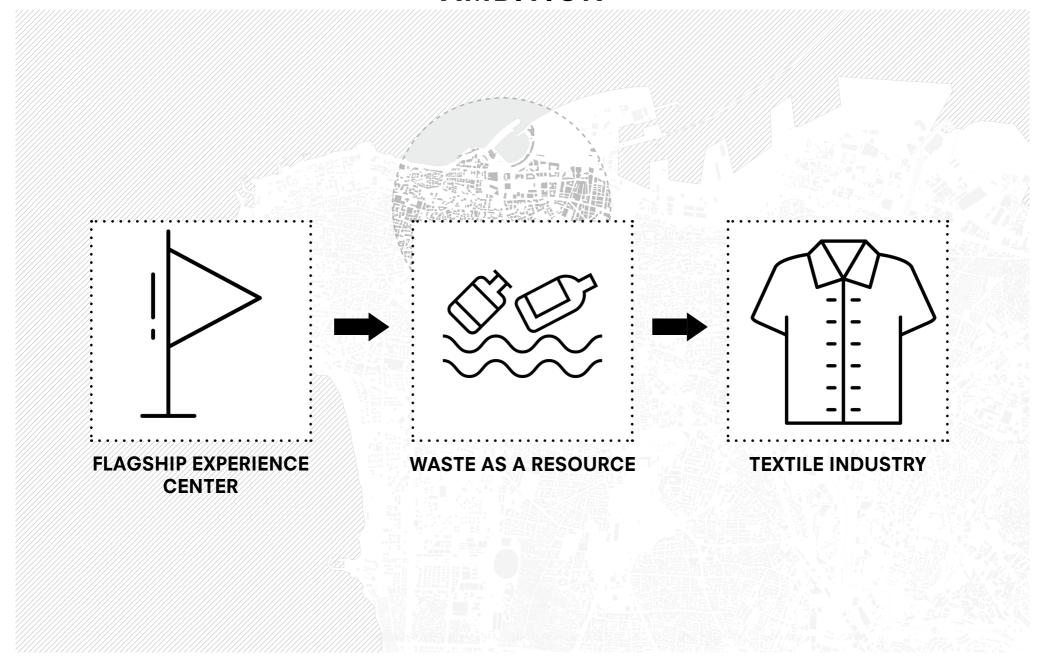
# **AMBITION**



# **AMBITION**



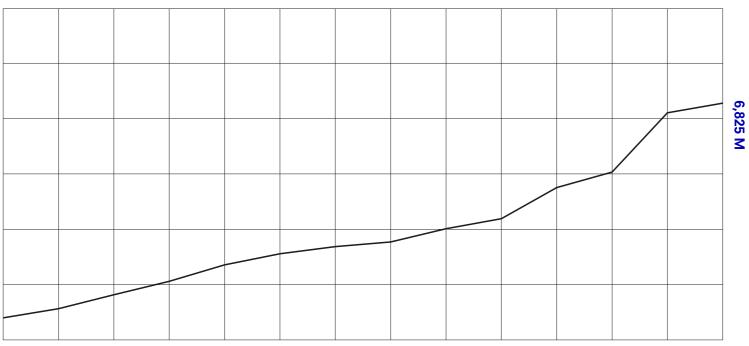
# **AMBITION**



## **WASTE CRISIS 2015**

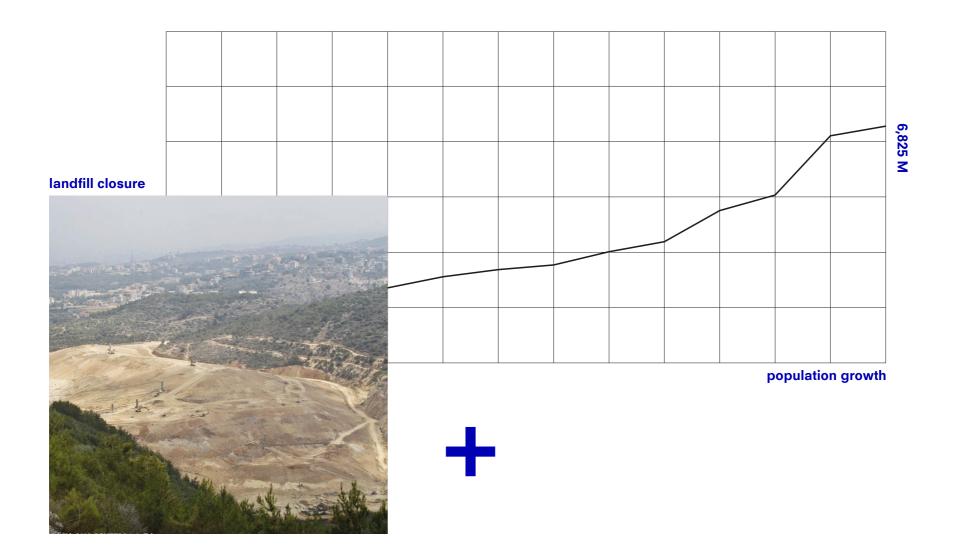


# **TRIGGER**



population growth

# **TRIGGER**



## **COLLAPSE JULY 2015**







#### **COLLAPSE JULY 2015**

#### Lebanon rubbish crisis: Cabinet agrees to resume waste disposal

9 September 2015

See the 'River of Trash' That's Taken

**Over Beirut's Suburbs** 



#### To Make Sense of Lebanon's Protests, Follow the Garbage

The country's perpetual refuse crisis is just one example of the government corruption and dysfunction that have brought protesters into the

Dec. 3, 2019



#### This is the Lebanese Government's **Solution to the Garbage Crisis**

crisis'

17 August 2015



#### **Human Rights Watch condemns** Lebanon's inaction in garbage crisis

15.01.22, 15:17

Lebanese government responds to mounting trash crisis by 'dumping it all in the sea'



Lebanon's waste crisis 'a threat to public health'

Garbage governance: Poor waste management causes environmental crises

Trash is a big problem at the moment for I ebanon - and for governments all over the world. It can lead to major environmental problems. But there are solutions - if the authorities are ready to take them on.

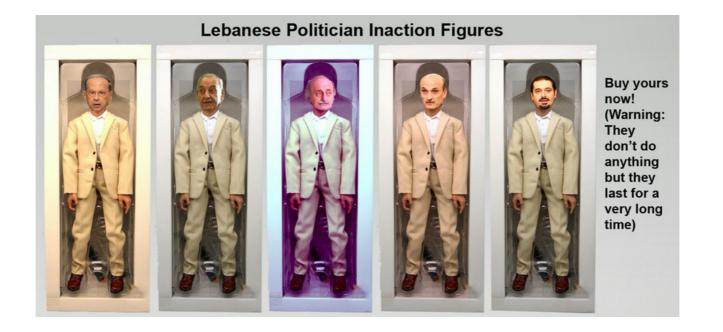
Lebanon: Beirut faces 'rubbish health



## **'YOU STINK' CAMPAIGN**



## **INACTIVE GOVERNMENT**



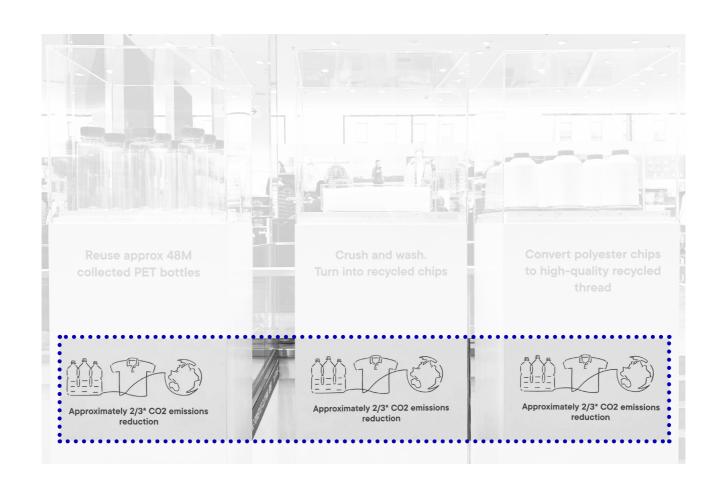
# TRASH TO TR(E)AS(H)URE



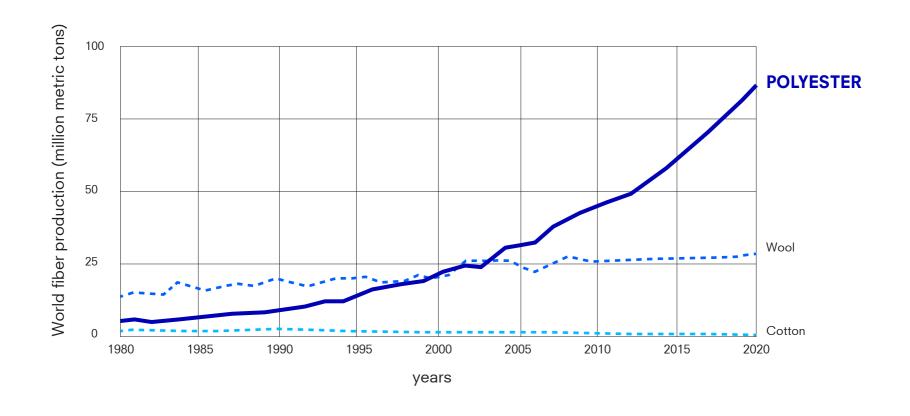
## **RECYCLING AS MARKETING**



## **RECYCLING AS MARKETING**



## **WORLD FIBER PRODUCTION**



## **RECYCLED PLASTIC FIBERS**



## INTERNATIONAL COMPETITION

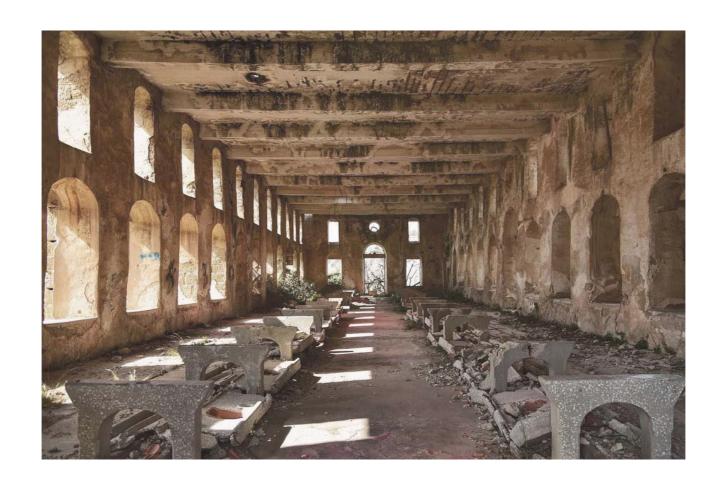


China



Lebanon

## **CULTURAL DECAY**



## FROM PROBLEM TO OPPORTUNITY

#### **TEXTILE INDUSTRY**

socio-economic

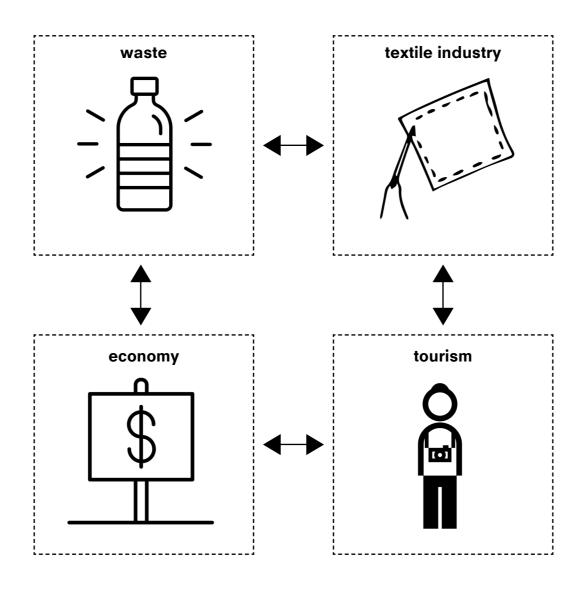




WASTE CRISIS

environmental

# **SYMBIOTIC BENEFITS**



## **RESEARCH QUESTION**

How can an architectural intervention encourage the perception of waste as a resource instead of a burden through the activation of Lebanon's textile heritage?





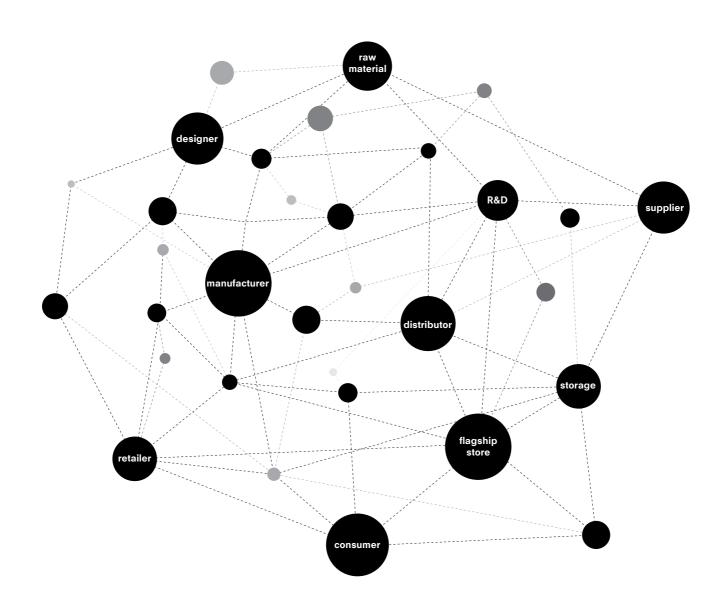
## **RESEARCH QUESTION**

How can an **architectural intervention** encourage the perception of waste as a resource instead of a burden through the activation of Lebanon's textile heritage?

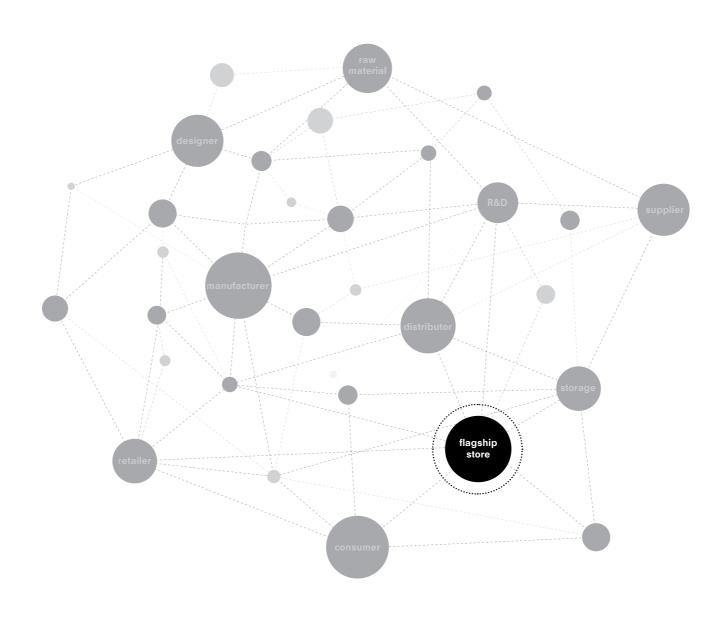




# FRAGMENTED PRODUCTION NETWORK

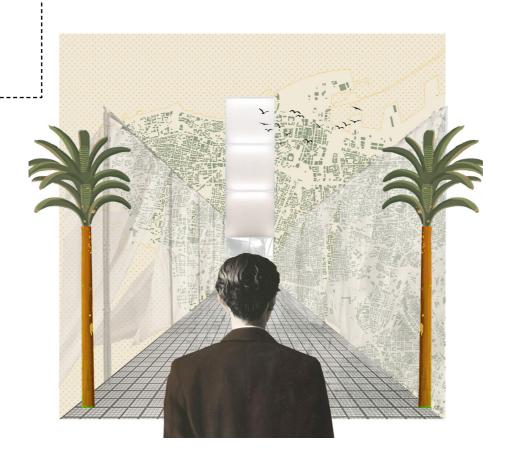


## FRAGMENTED PRODUCTION NETWORK

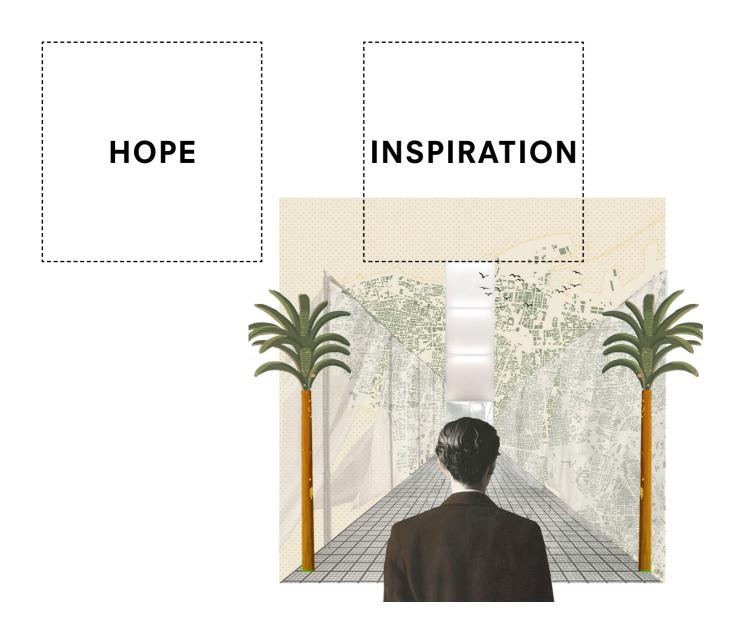


## SIGNIFICANCE FOR BEIRUT

**HOPE** 



## SIGNIFICANCE FOR BEIRUT



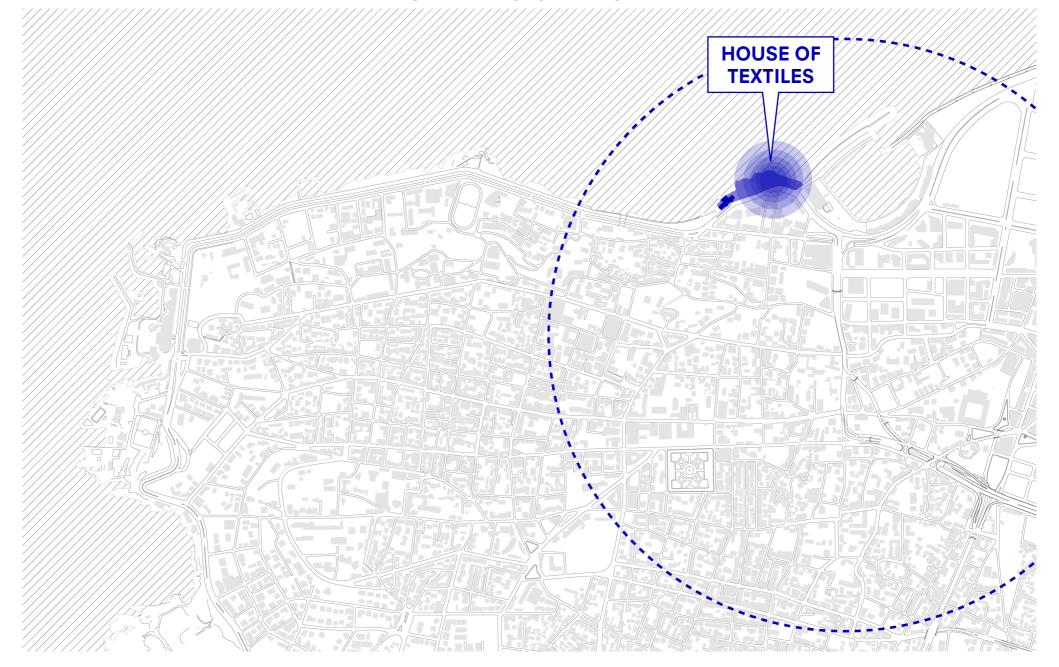
## SIGNIFICANCE FOR BEIRUT

**NEW HOPE** INSPIRATION **NODE** 

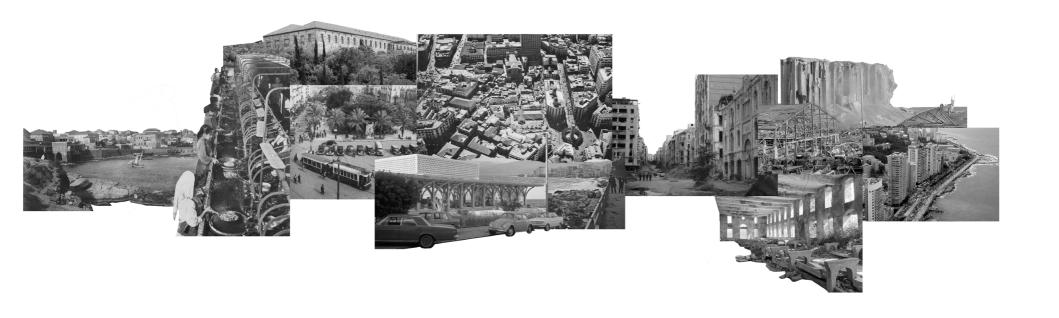


#### 02 site

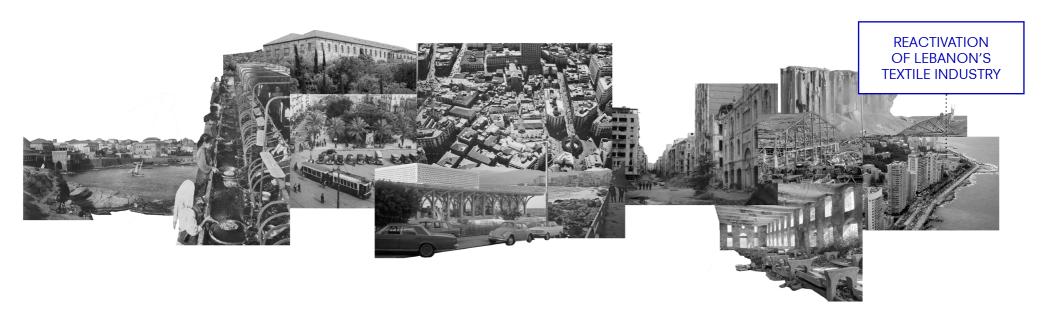
# SITE LOCATION



## HOPE IN HISTORICAL CONTINUITY.

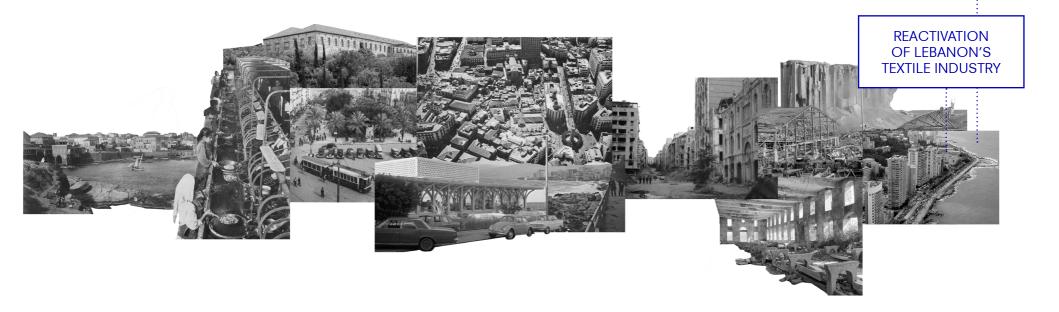


## HOPE IN HISTORICAL CONTINUITY.

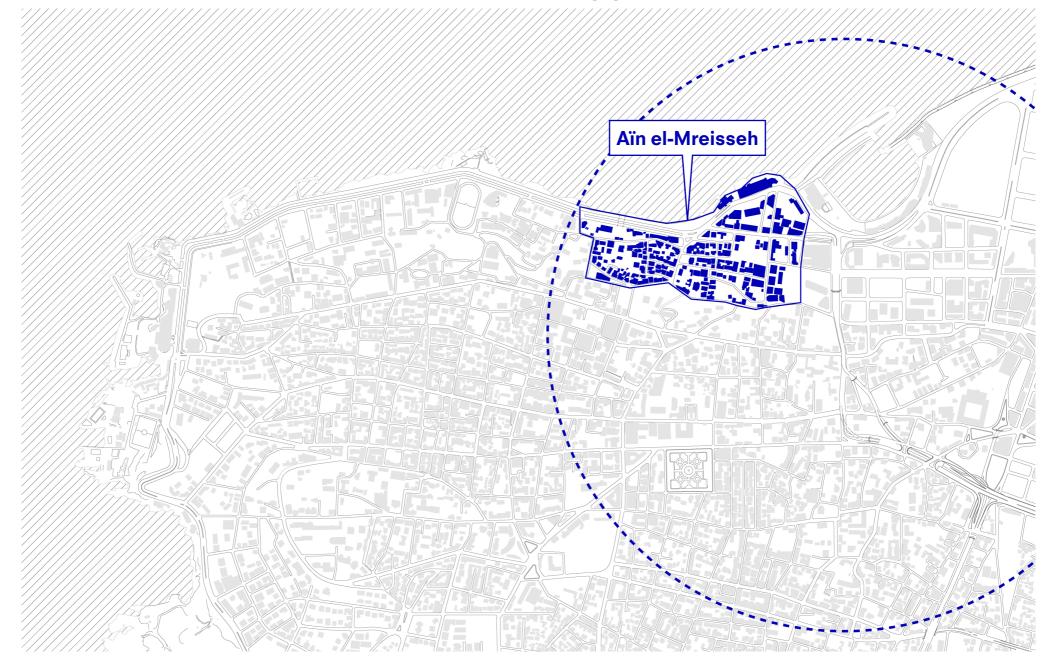


## HOPE IN HISTORICAL CONTINUITY.

REDISCOVERY OF BEIRUT'S WATERFRONT



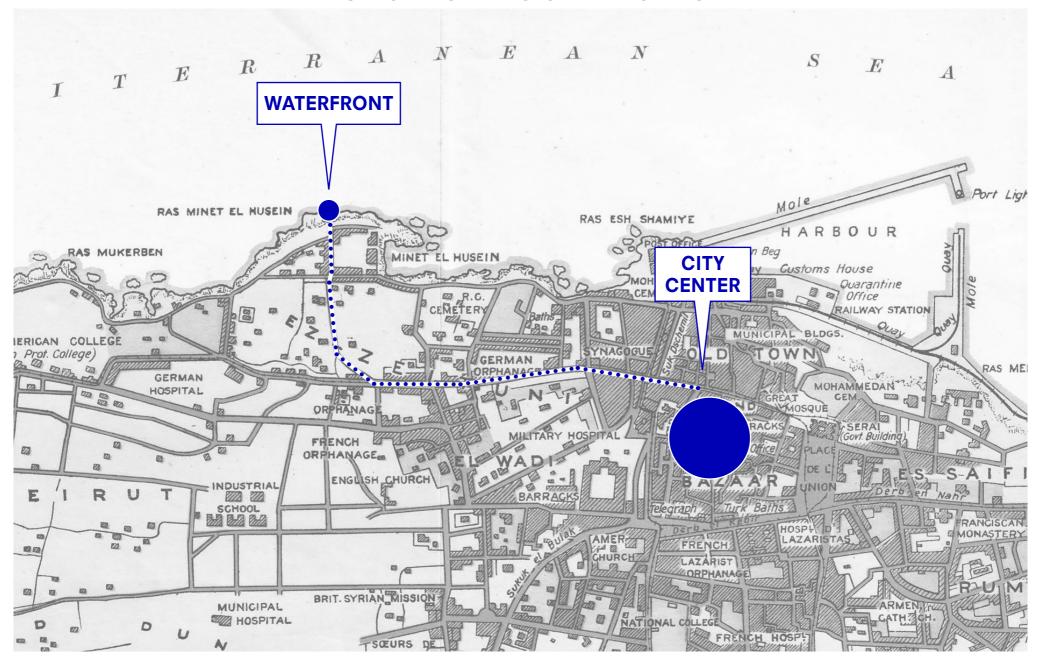
# **AÏN EL-MREISSEH**



# **AÏN EL-MREISSEH**

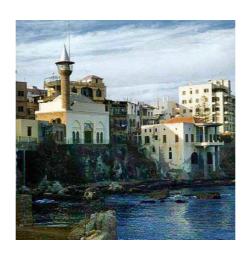


#### HISTORICAL CONNECTION



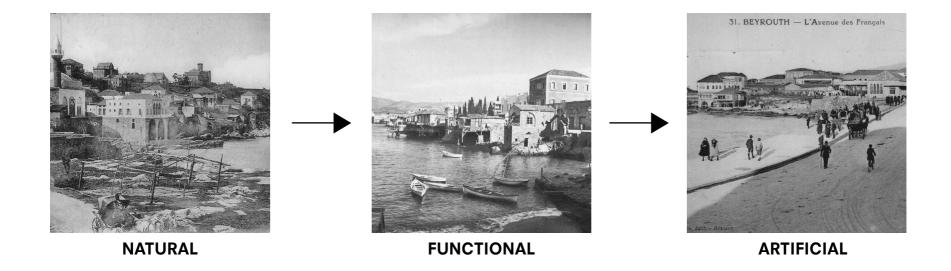
# AÏN = SPRING; SOURCE OF WATER





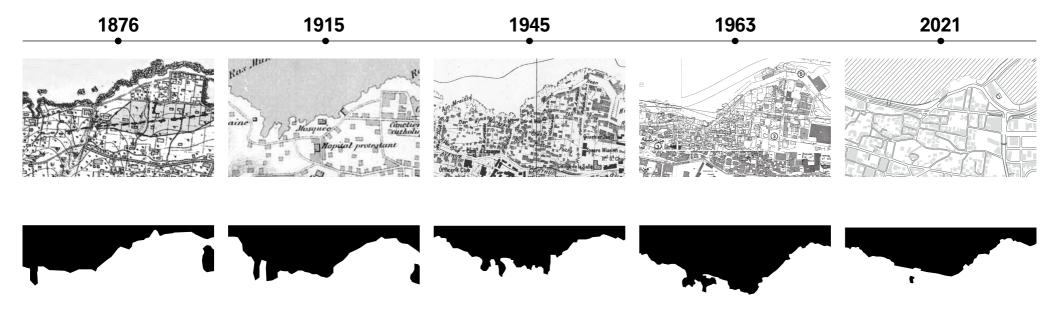


#### **TRANSITIONS**



Beirut Studio

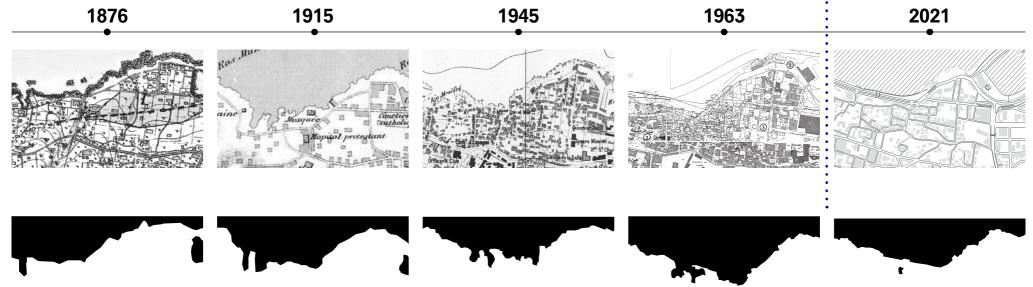
#### PHYSICAL TRANSFORMATIONS



#### PHYSICAL TRANSFORMATIONS

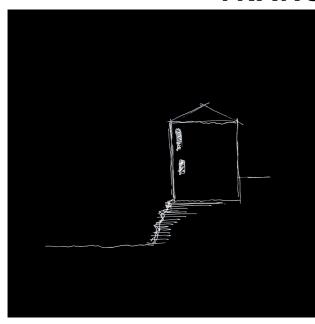
1974





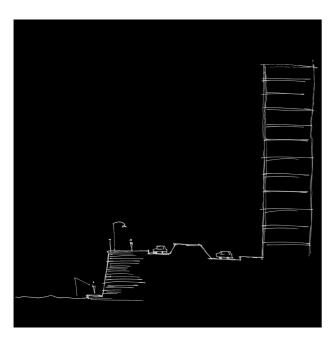
02 site

# **TRANSFORMED SECTIONS**





~1950





~2020

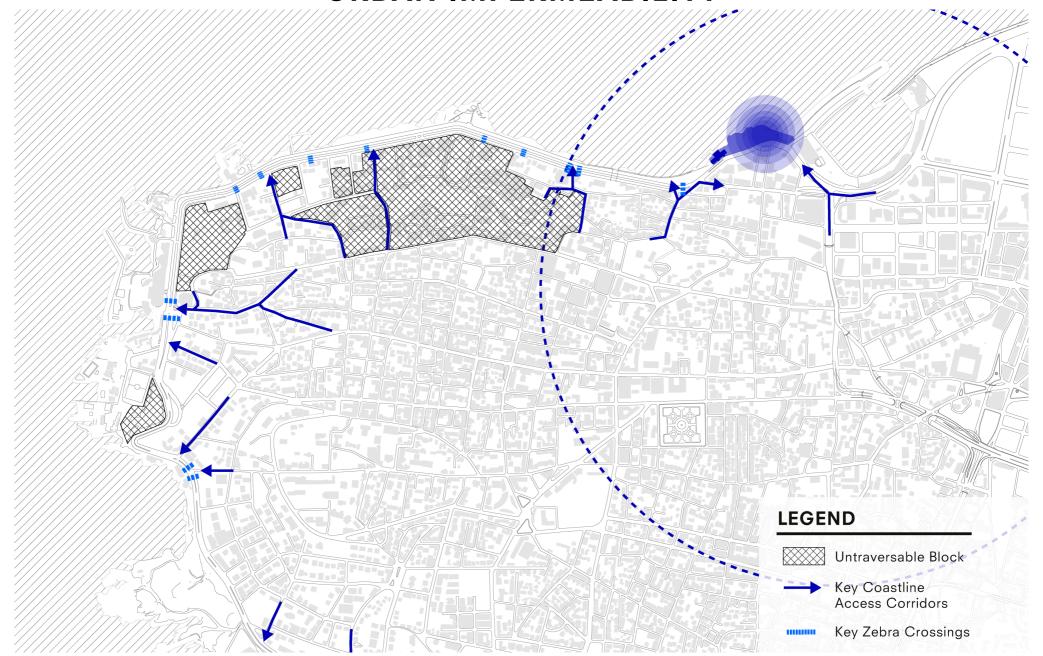
# **INFRASTRUCTURAL BARRIER**



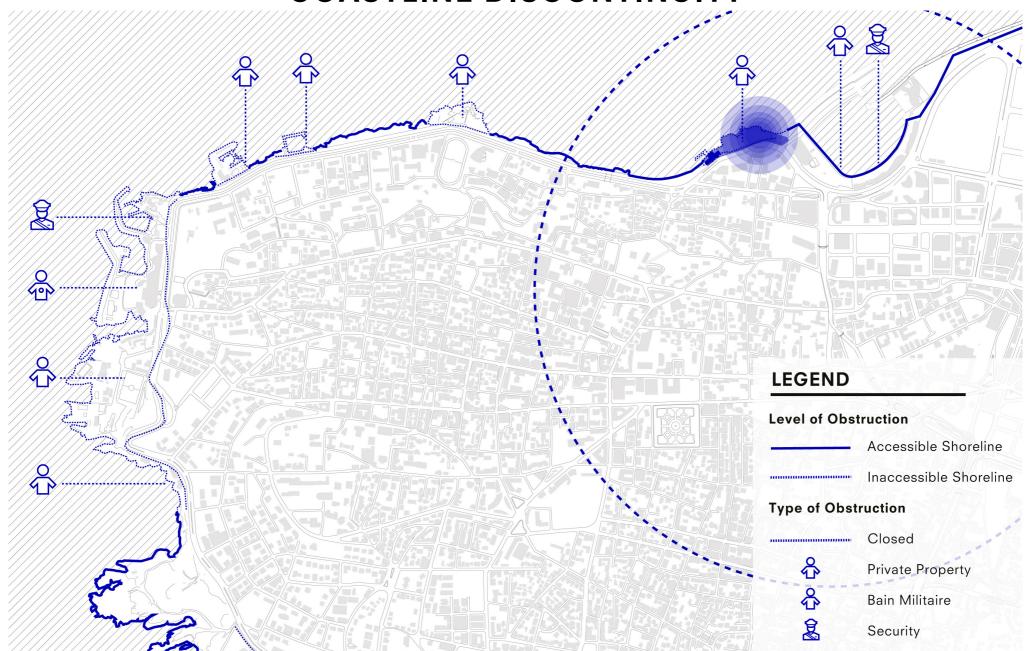
# **INFRASTRUCTURAL BARRIER**



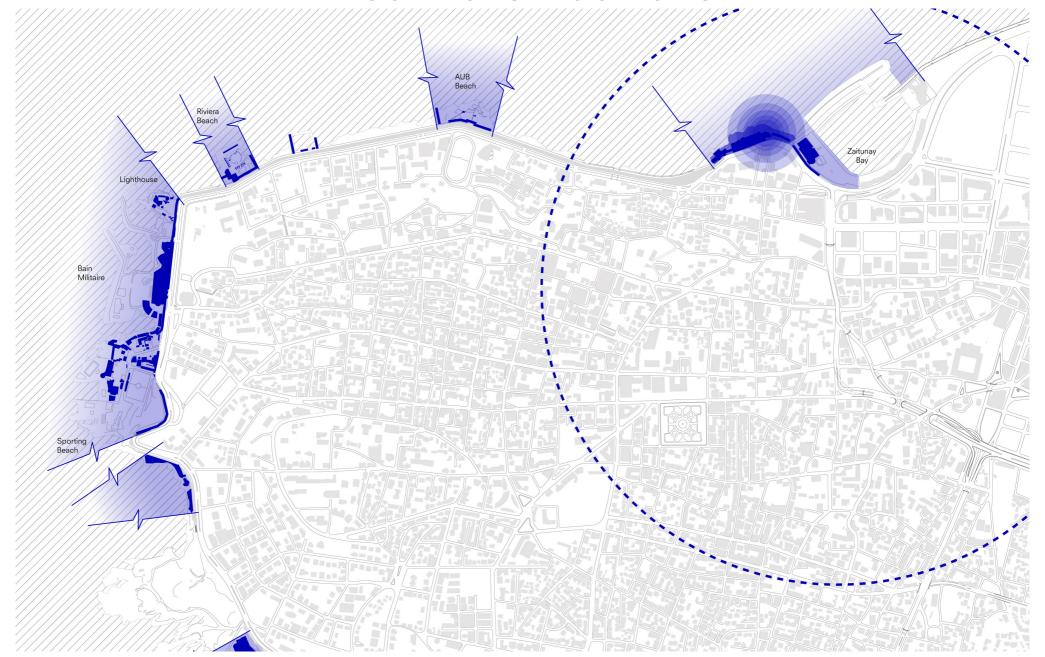
# **URBAN IMPERMEABILITY**



# **COASTLINE DISCONTINUITY**



# **VISUAL OBSTRUCTIONS**



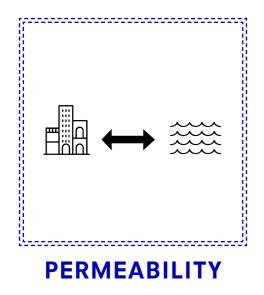
# **VISUAL OBSTRUCTIONS**



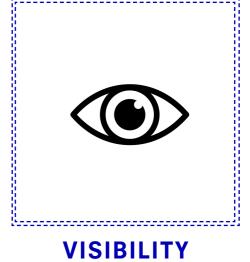
# **VISUAL OBSTRUCTIONS**



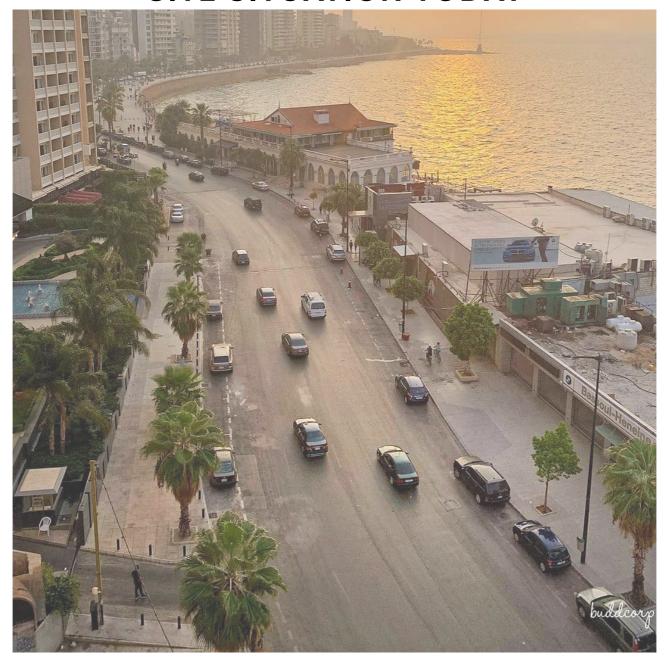
# 02 site **SITE AMBITIONS**



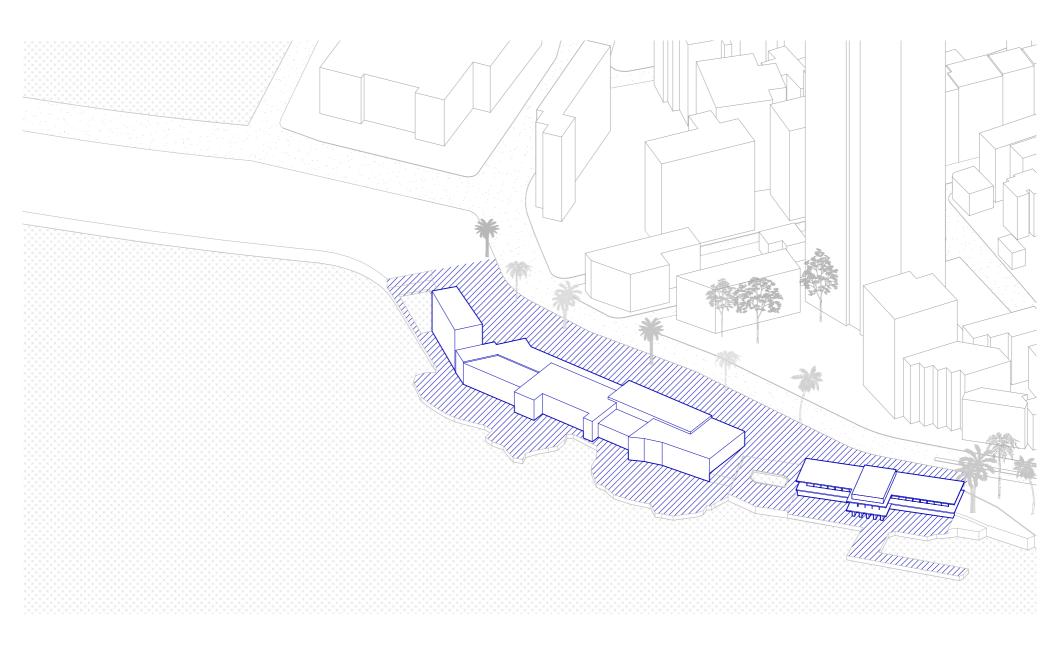




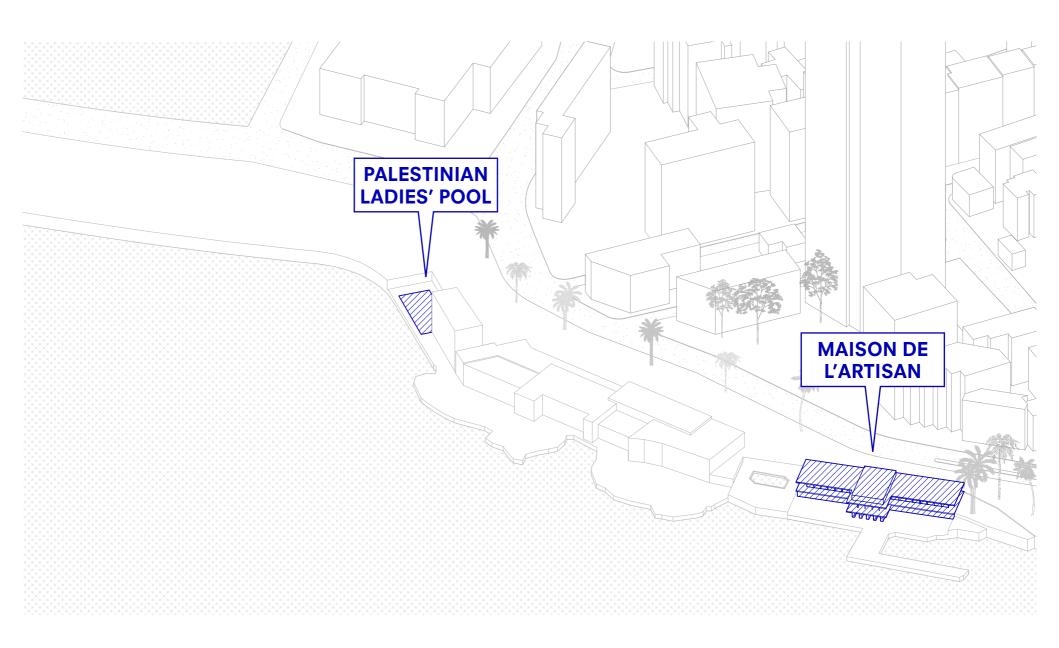
# SITE SITUATION TODAY



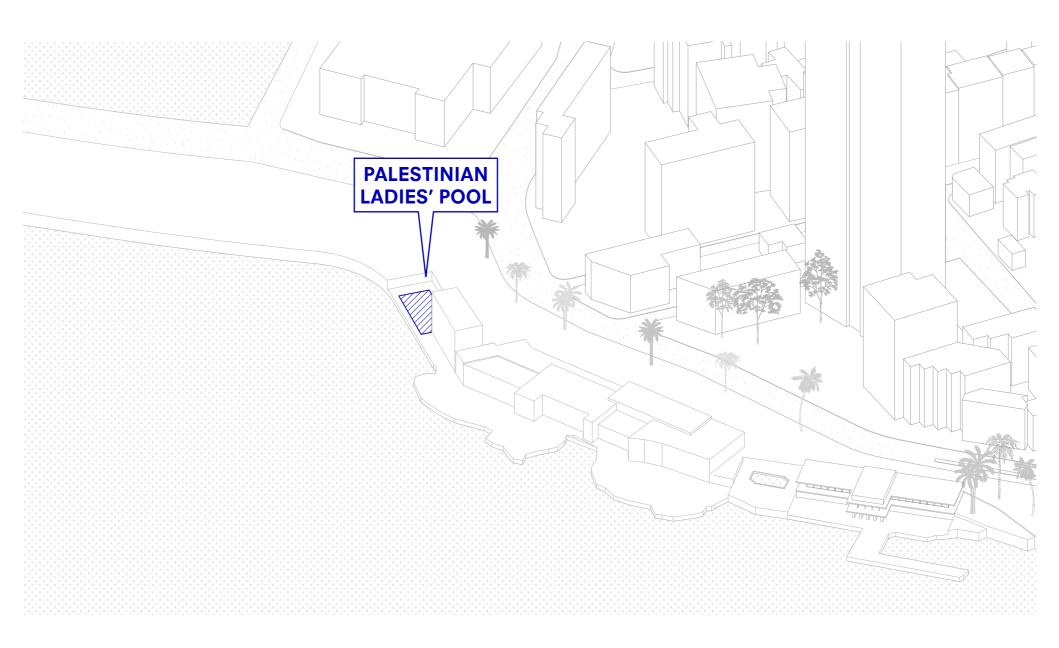
# SITE SITUATION TODAY



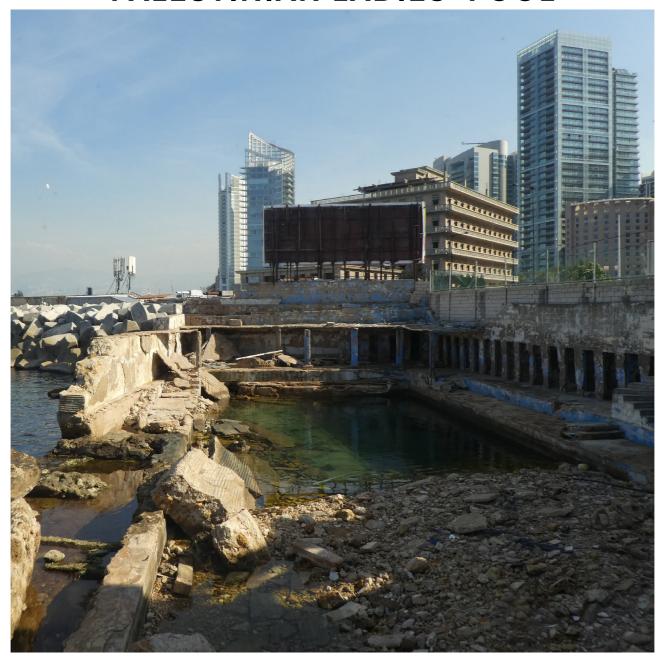
#### **HISTORICAL ELEMENTS**



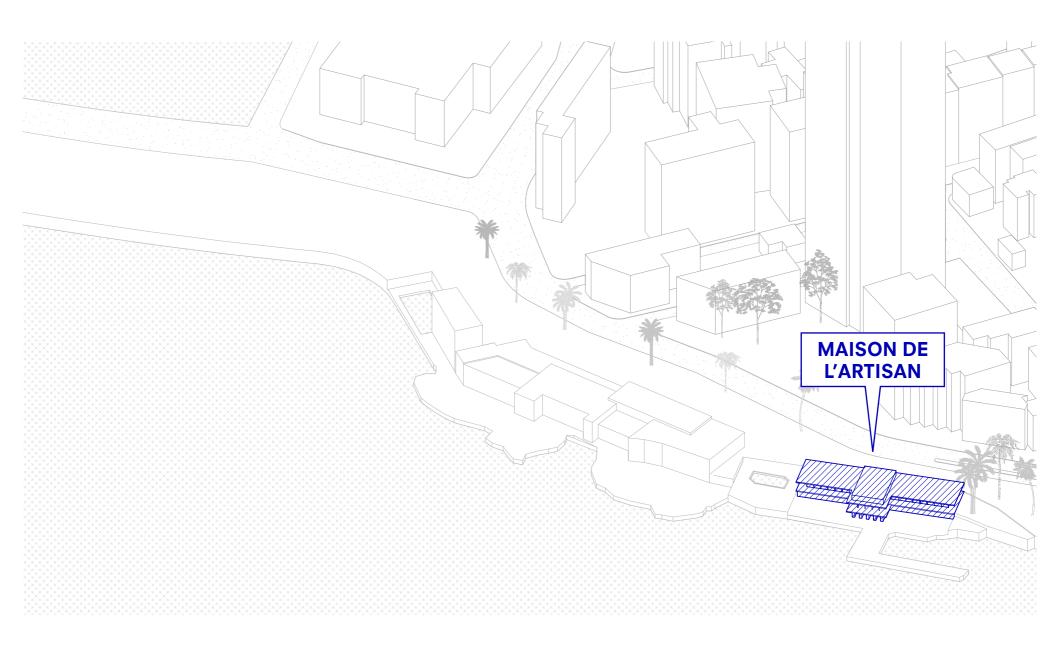
#### **HISTORICAL ELEMENTS**



# PALESTINIAN LADIES' POOL



# **HISTORICAL ELEMENTS**



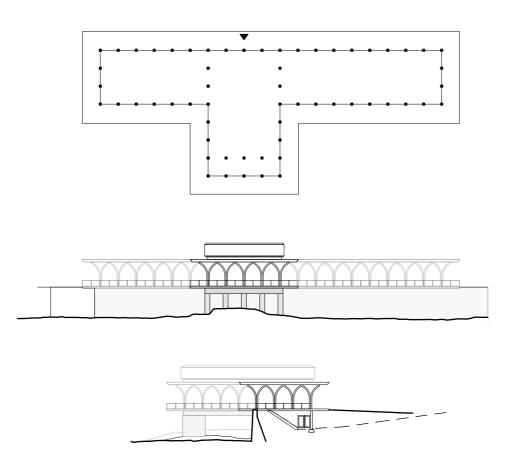
#### **LA MAISON DE L'ARTISAN 1963**



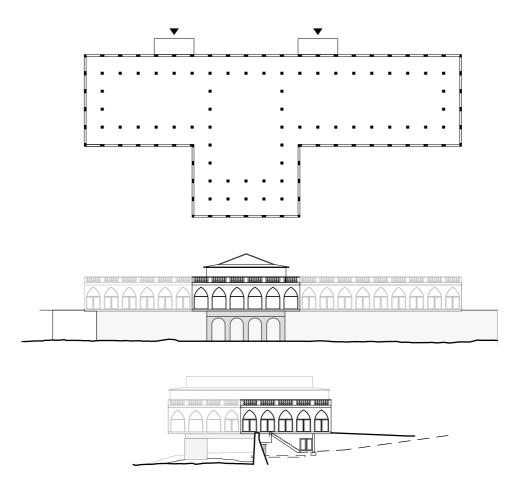




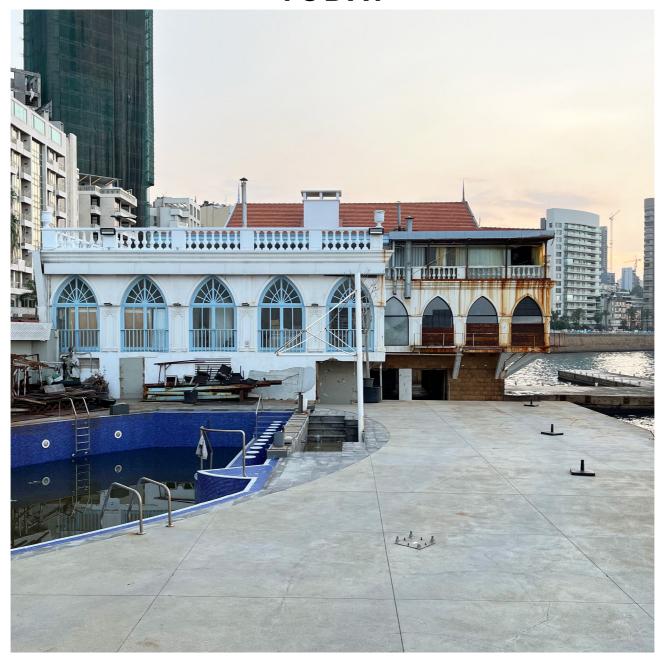
# 1963



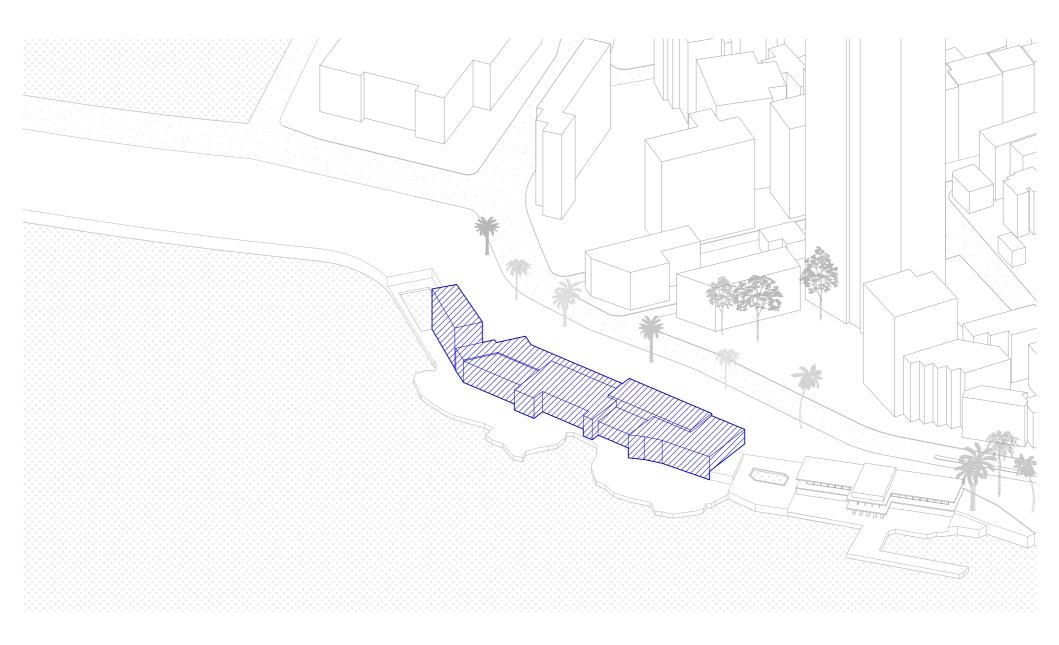
# 2021



# **TODAY**



# **URBAN NEIGHBOURS**



#### **URBAN NEIGHBOURS**







**AL SHAREK** argulieh & restaurant



**BMW SHOWROOM** 



KARAMNA restaurant



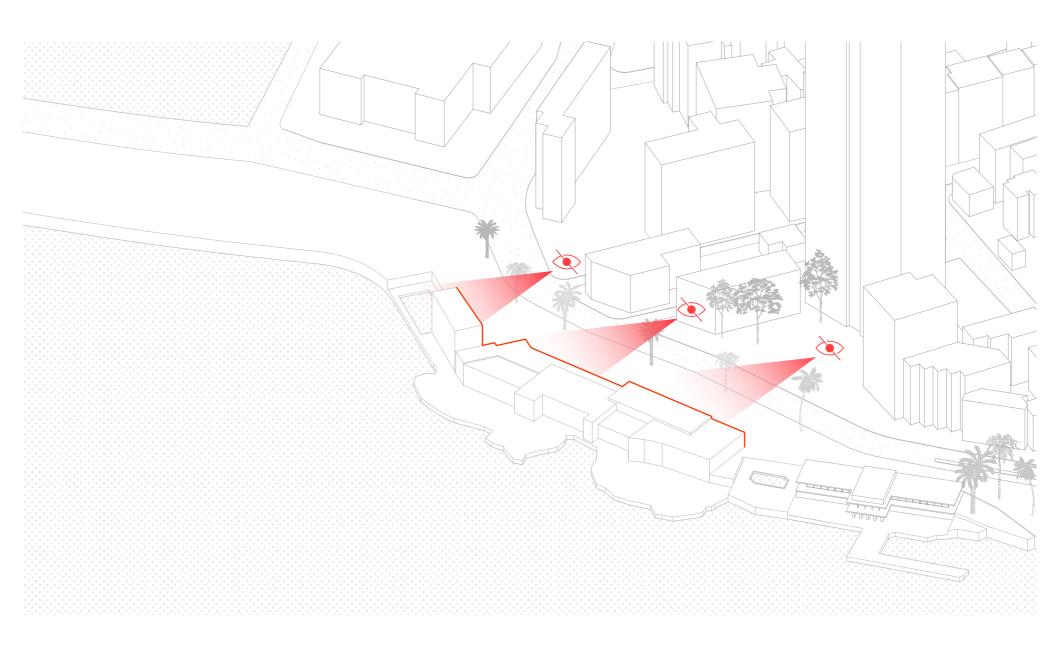
ARTISANS DU LIBAN



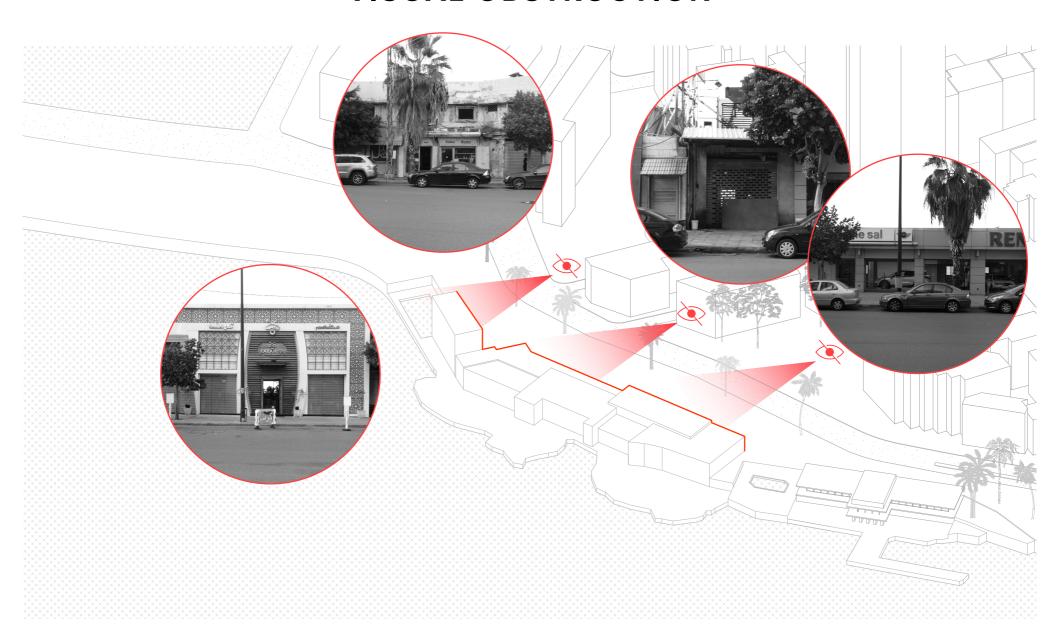
LA PAILOTTE restaurant



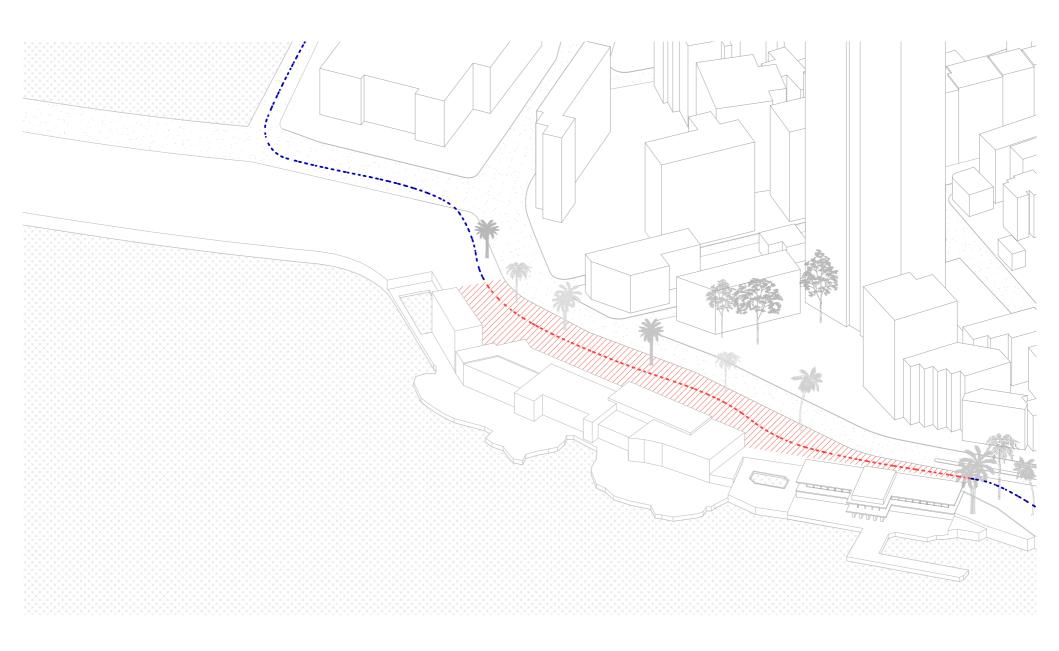
# 02 site VISUAL OBSTRUCTION



# **VISUAL OBSTRUCTION**



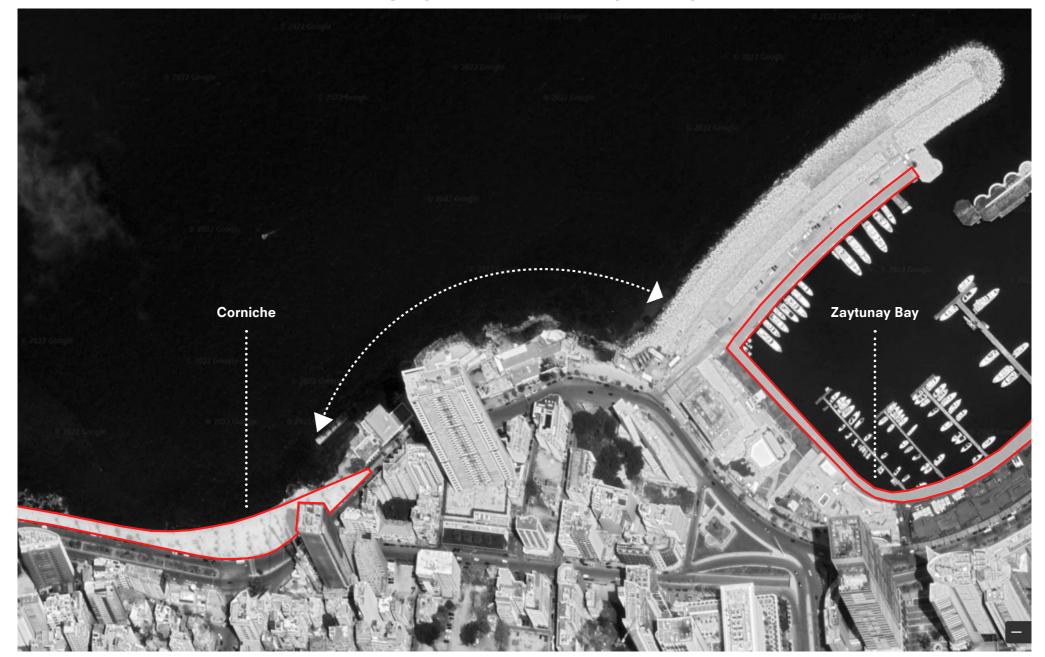
# **HINDERING CONTINUITY**



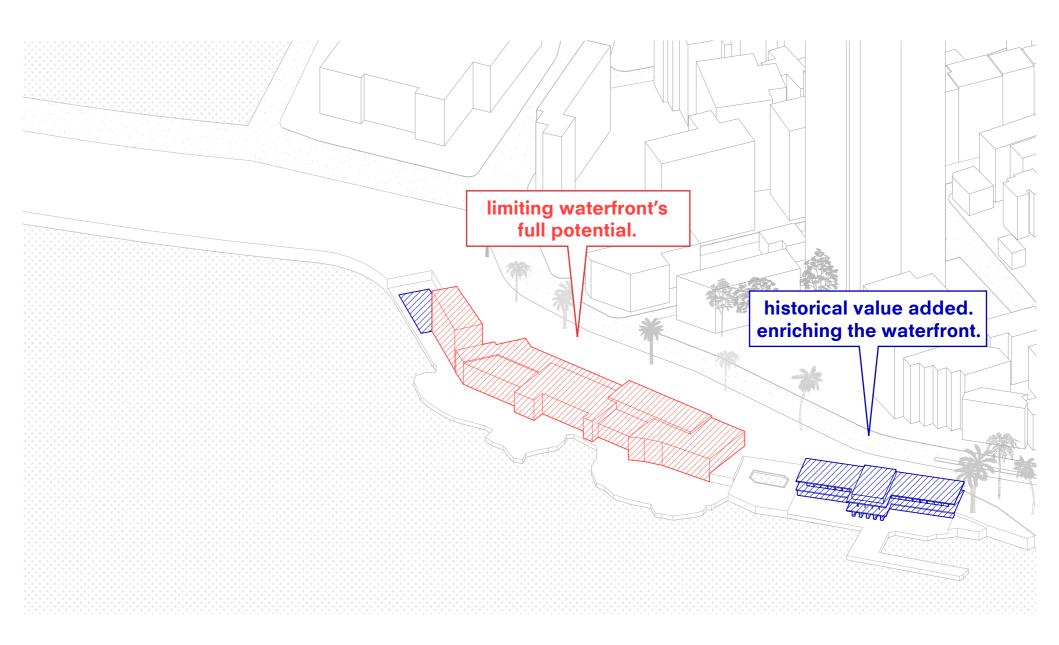
# **HINDERING CONTINUITY**



# PHYSICAL INTERRUPTION



#### CONCLUSION

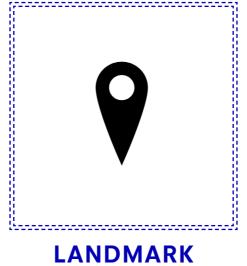


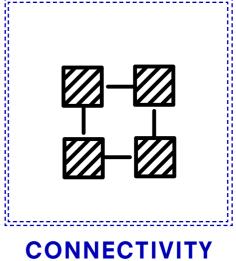


#### 03 ambitions

#### **DESIGN AMBITIONS**



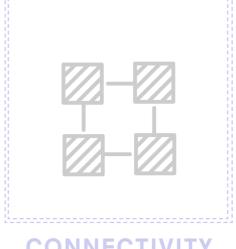




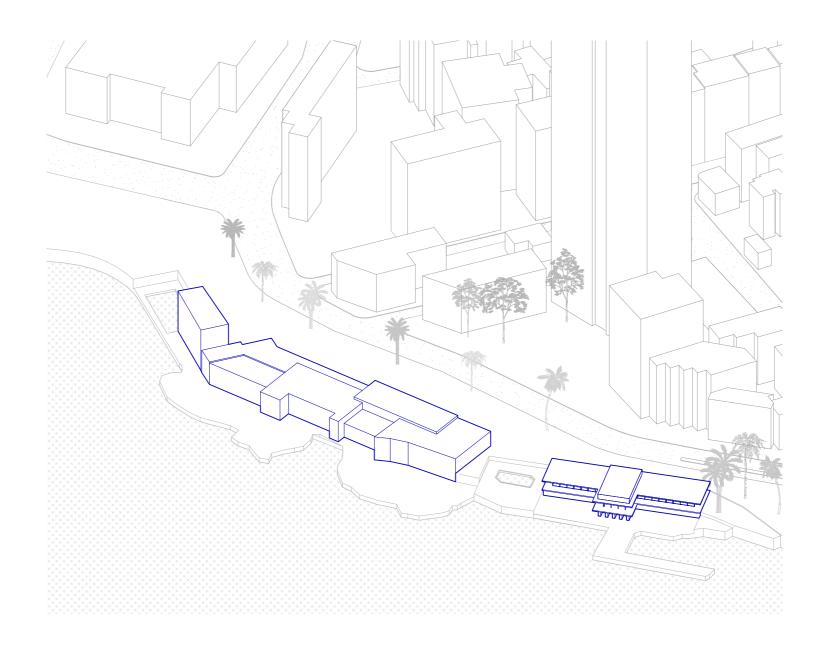
## **DESIGN AMBITIONS**



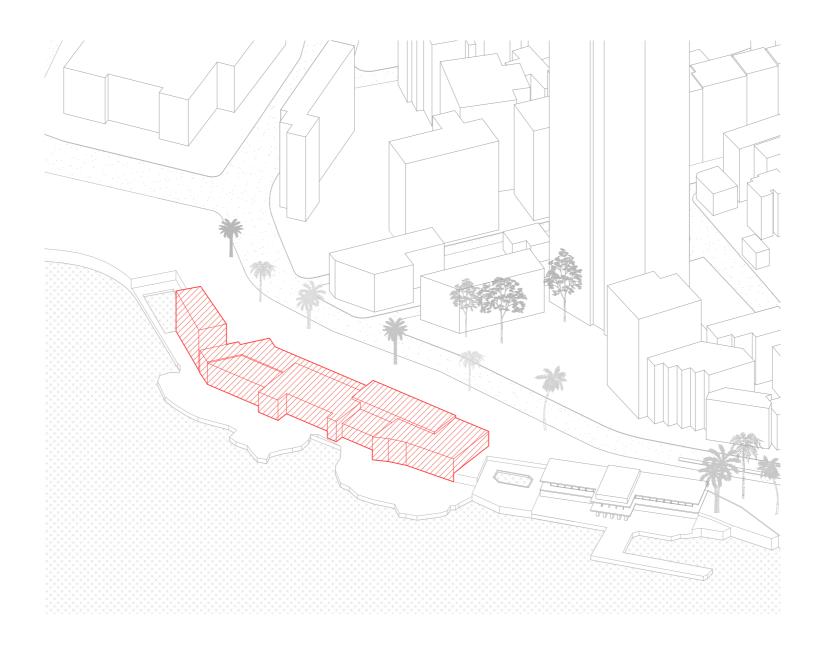




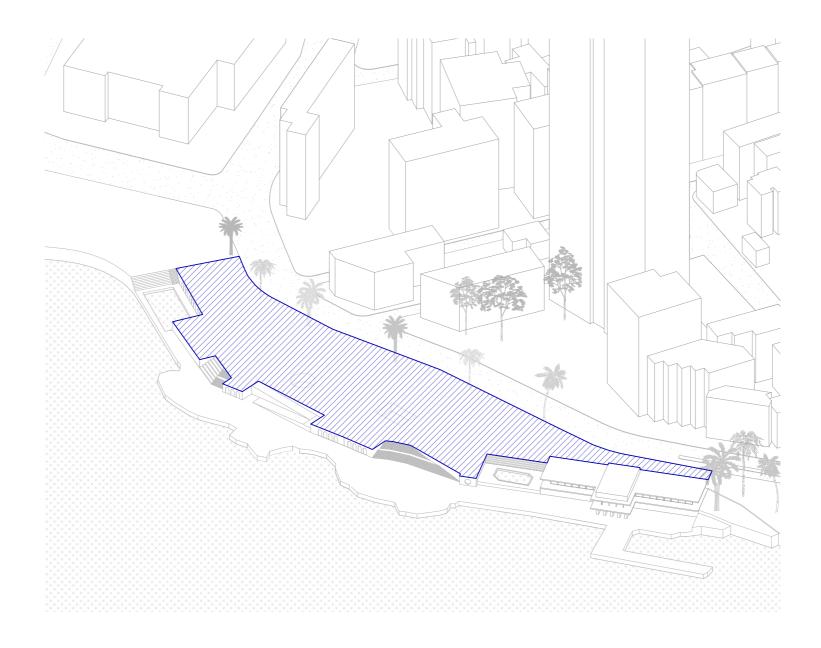
# **EXISTING STRUCTURE**



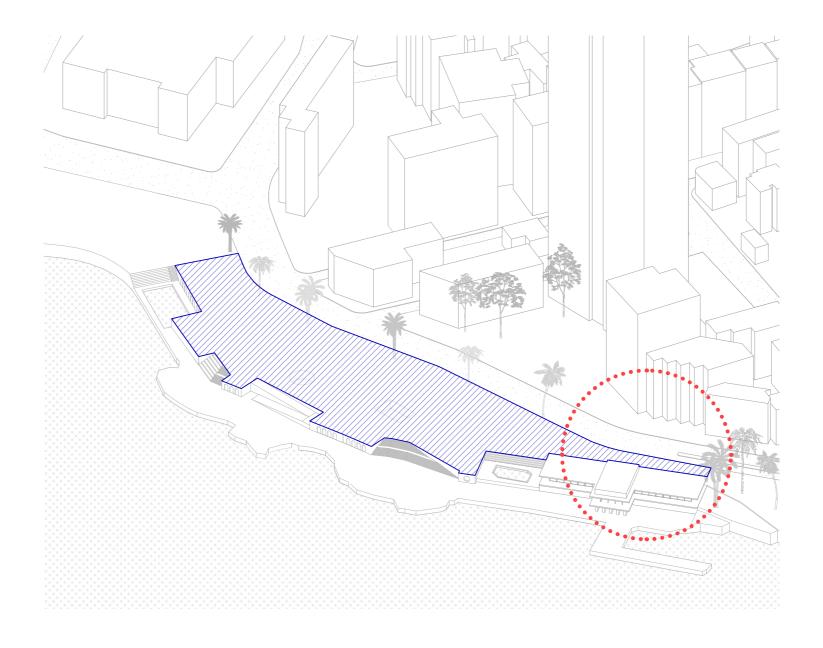
# PROPOSED DEMOLITION



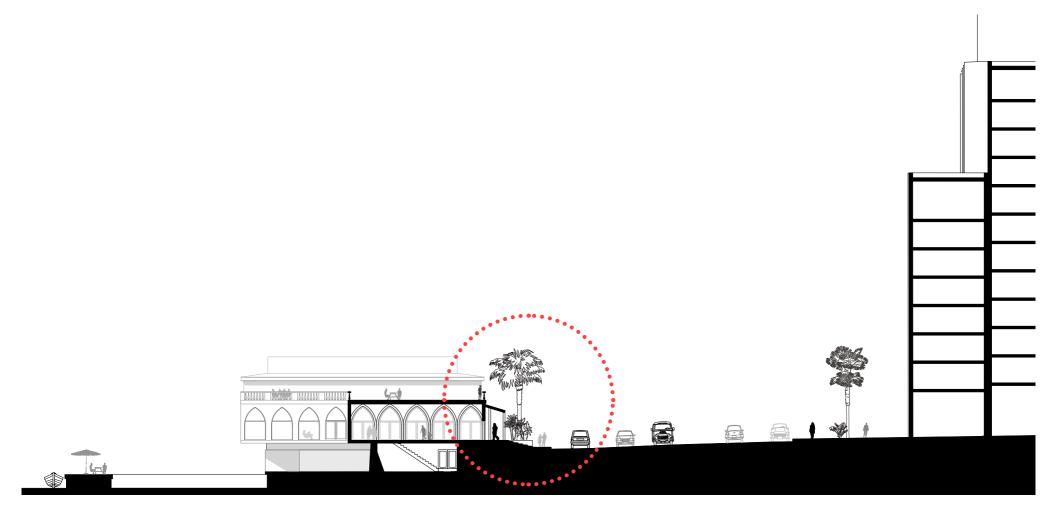
# **FLUENT, OPEN SPACE**



# **FLUENT, OPEN SPACE**



# **EXISTING SECTION**





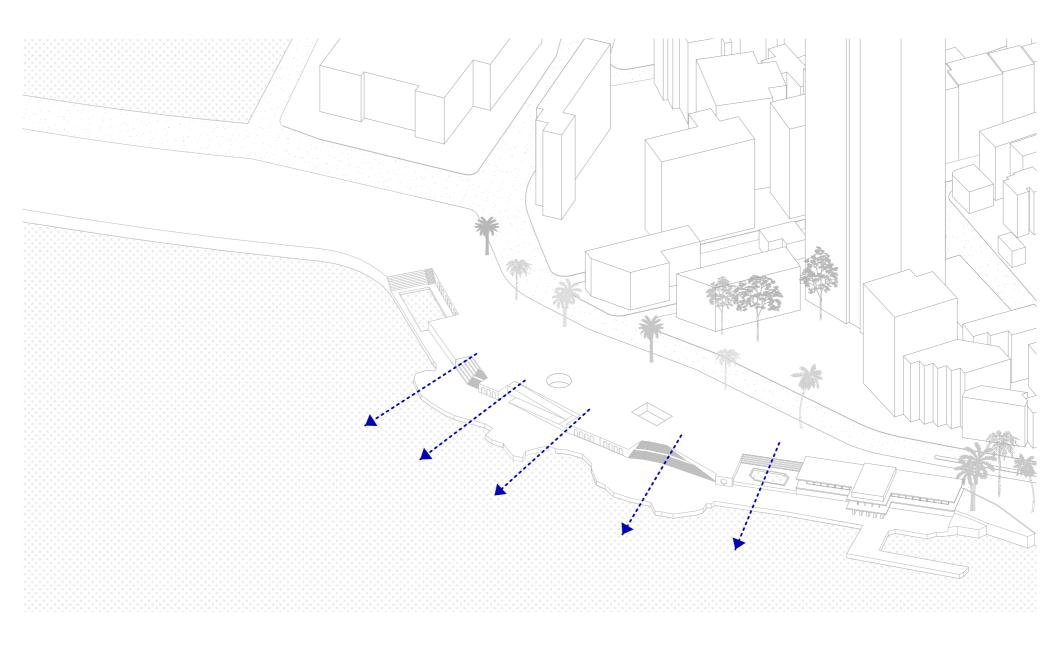
# **CURRENT THRESHOLD**



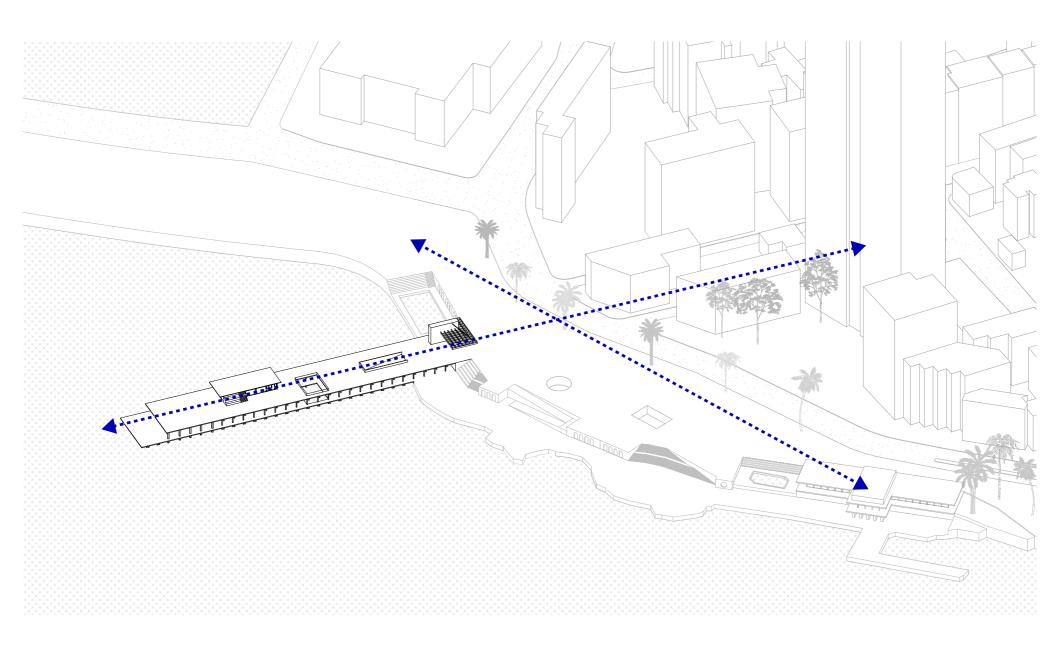
# PROPOSED FLUENT SPACE



# **OPEN VIEWS**



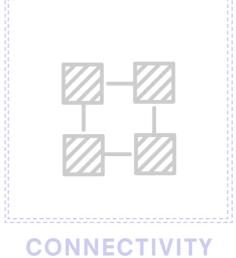
# **PERPENDICULARITY**



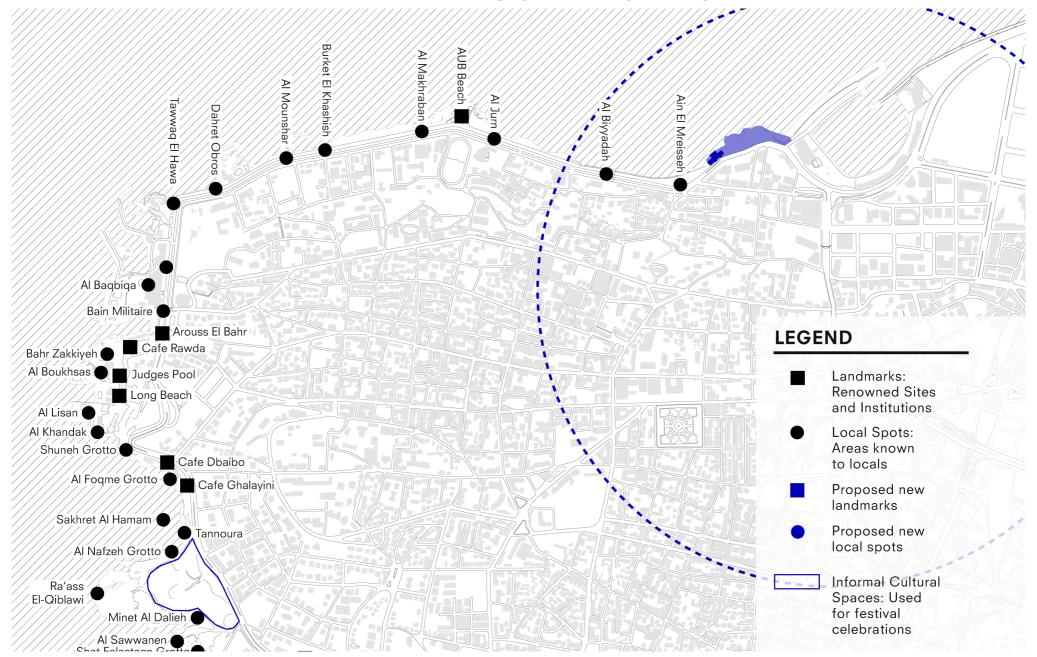
## **DESIGN AMBITIONS**



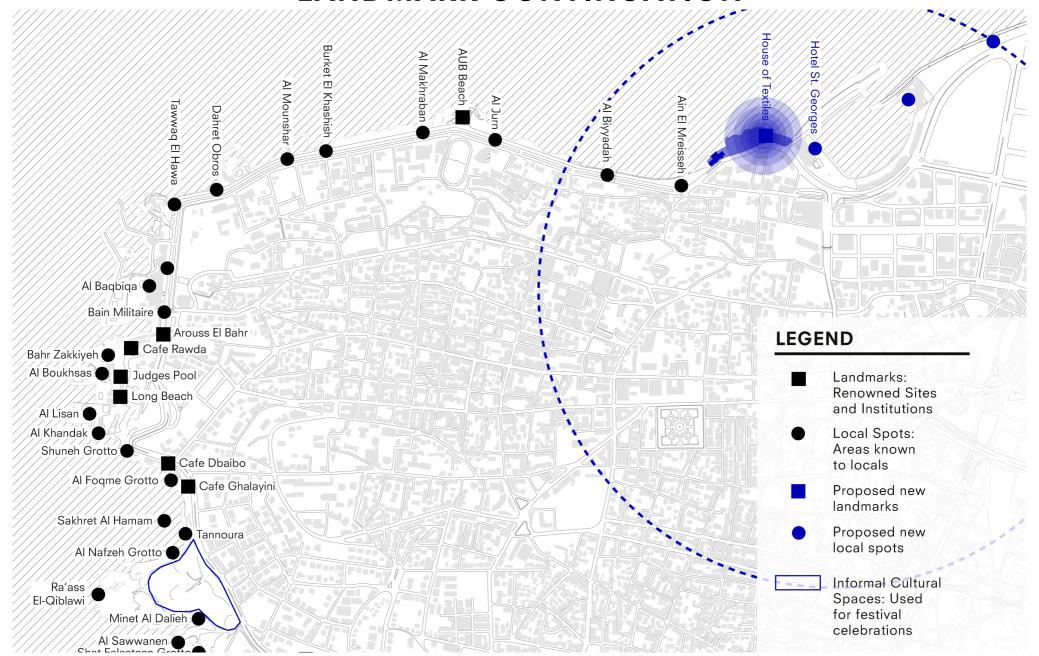




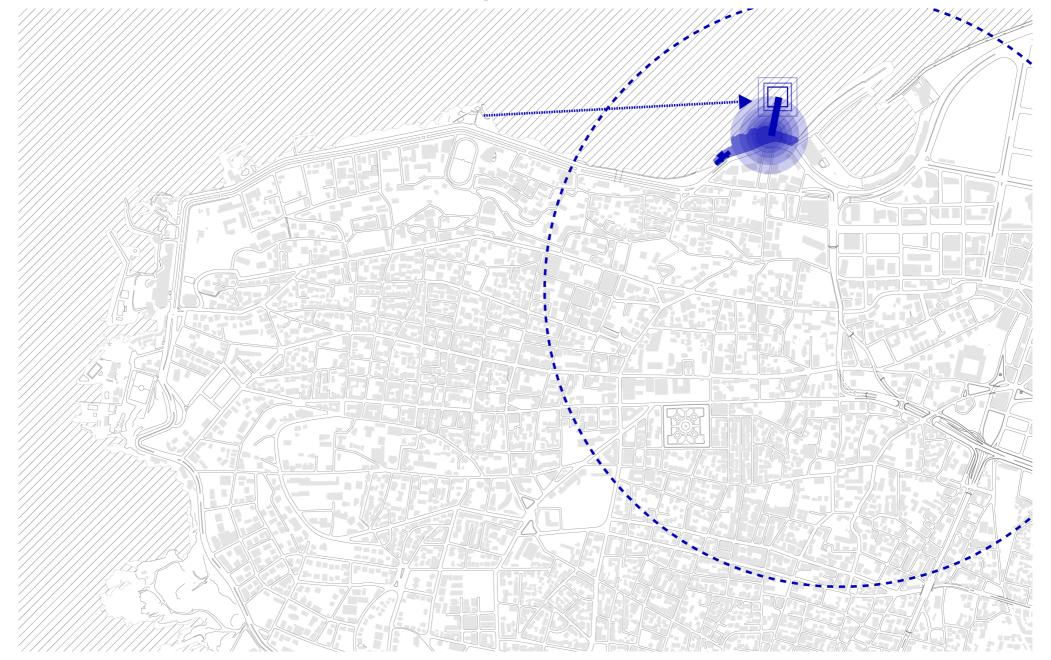
## LANDMARK CONTINUATION



## LANDMARK CONTINUATION



# **VISIBILITY**



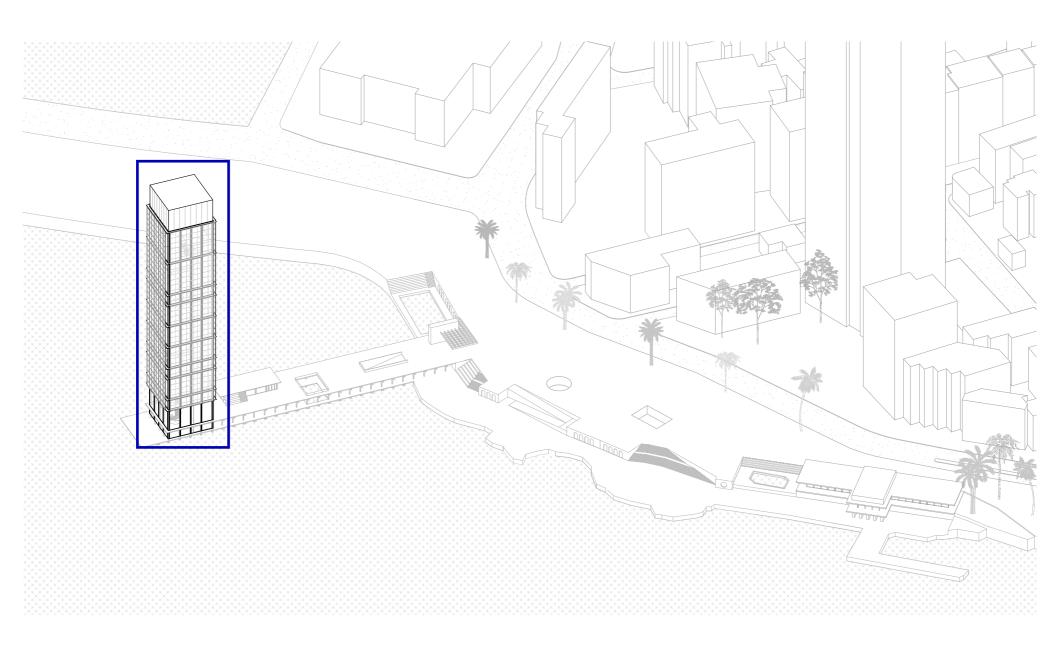
## **COASTAL NEEDLES**

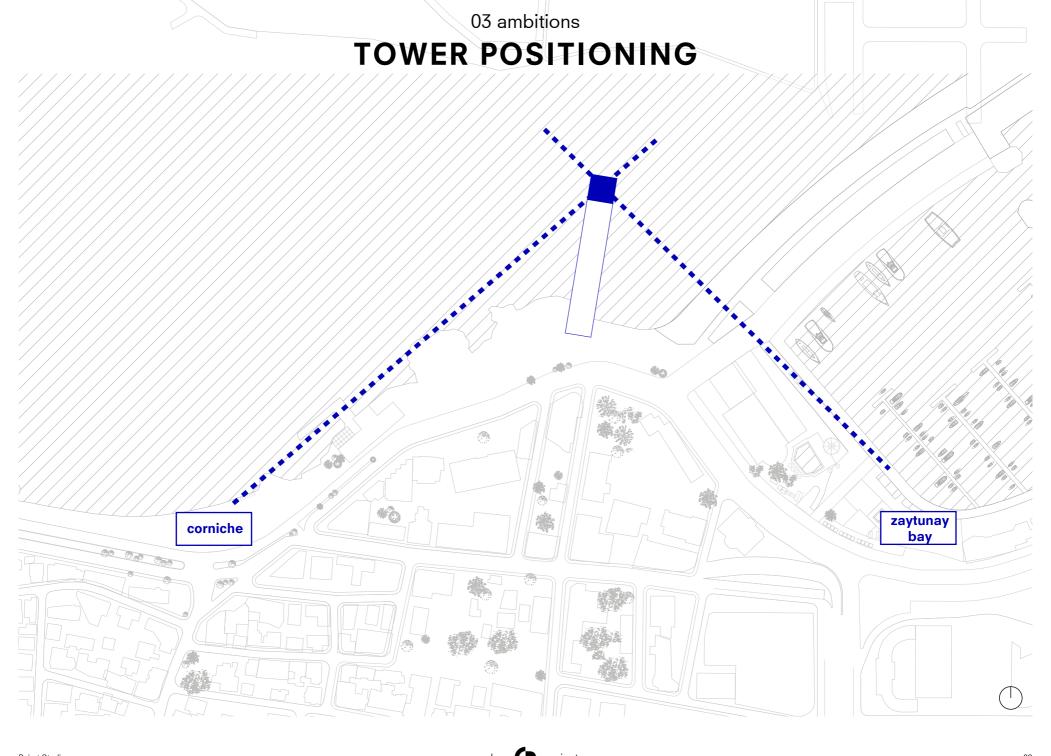






## **TOWER AS A LANDMARK**





# **POINT OF REFERENCE**



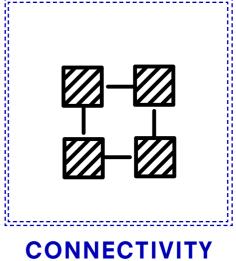
# A VIEW FOR ALL



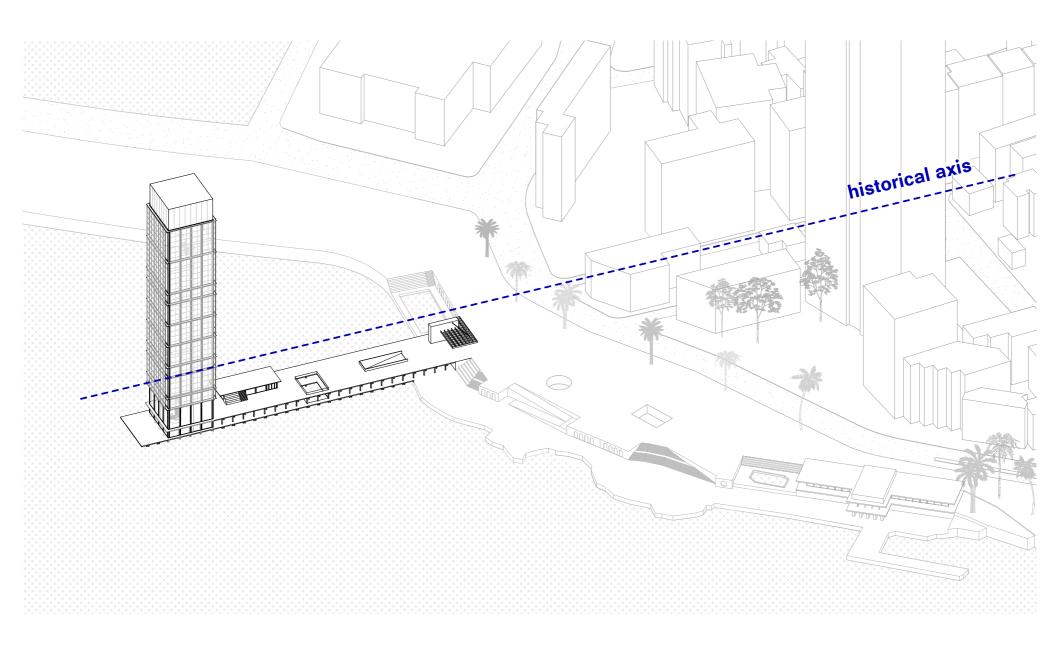
## **DESIGN AMBITIONS**



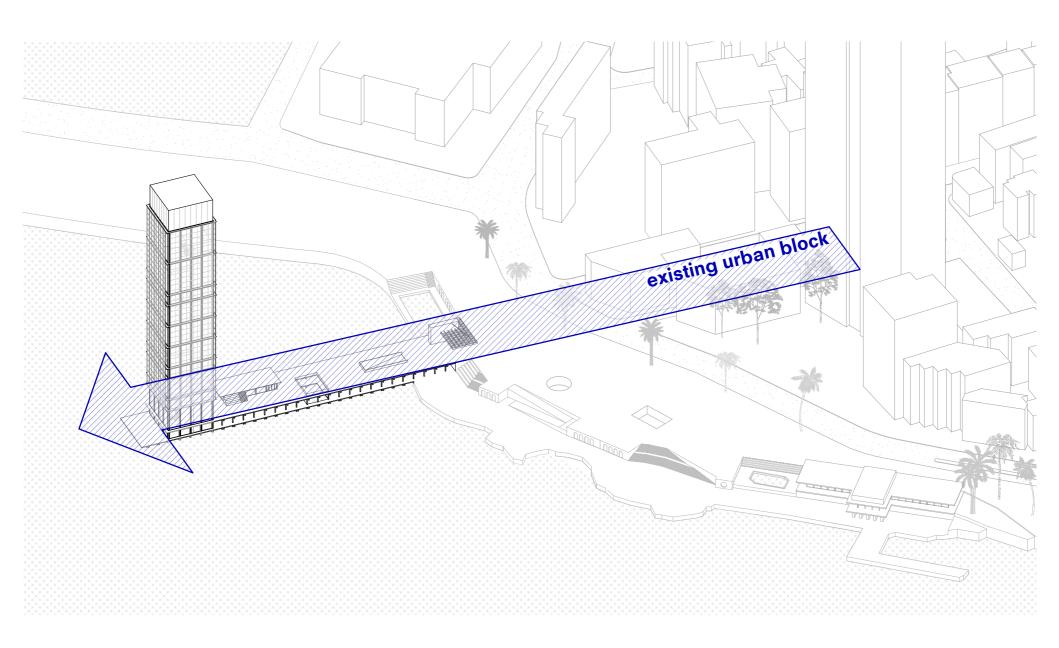




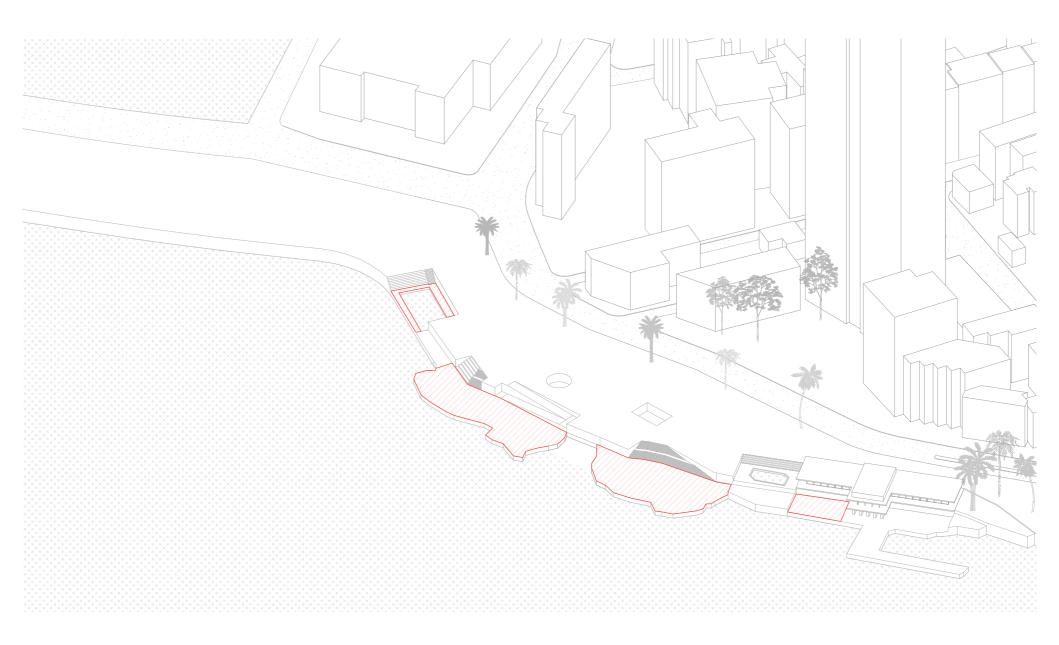
## **EXTENDING HISTORICAL AXIS**



## **EXISTING URBAN BLOCK**



# FRAGMENTED COASTAL LAYER



# **CONTINUOUS SPACE**

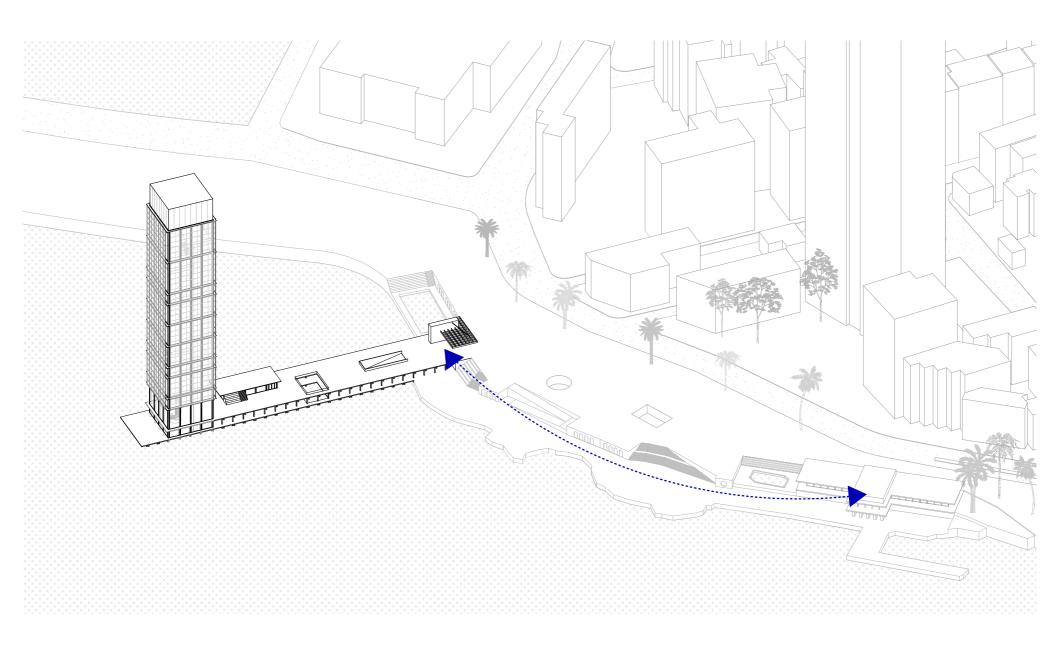


### 04 design concept

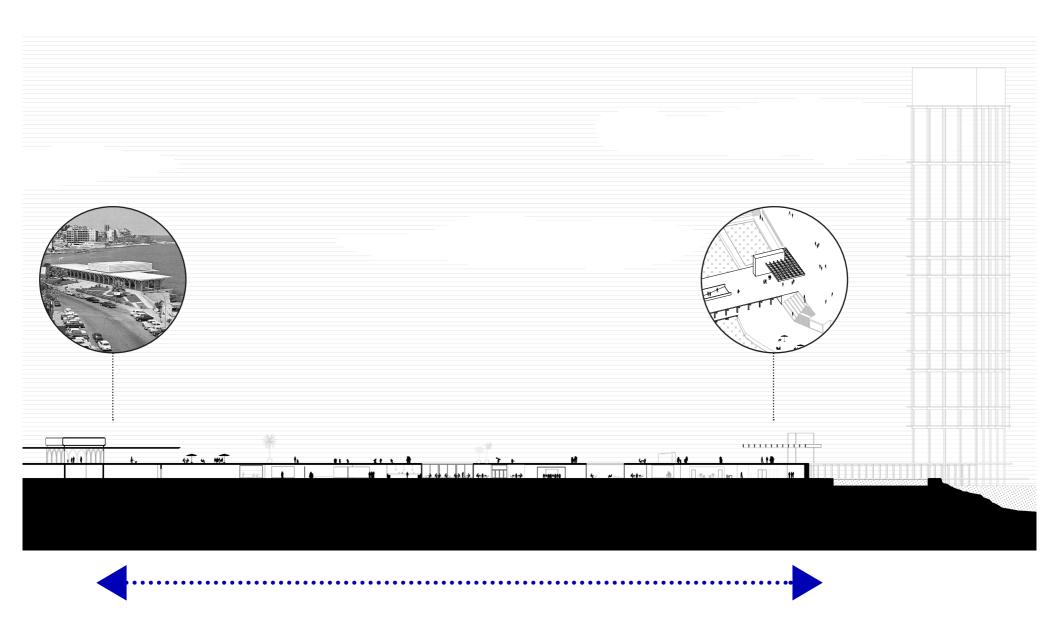
# **EXTENDED PUBLIC SPACE**



# **UNDERGROUND CONNECTION**

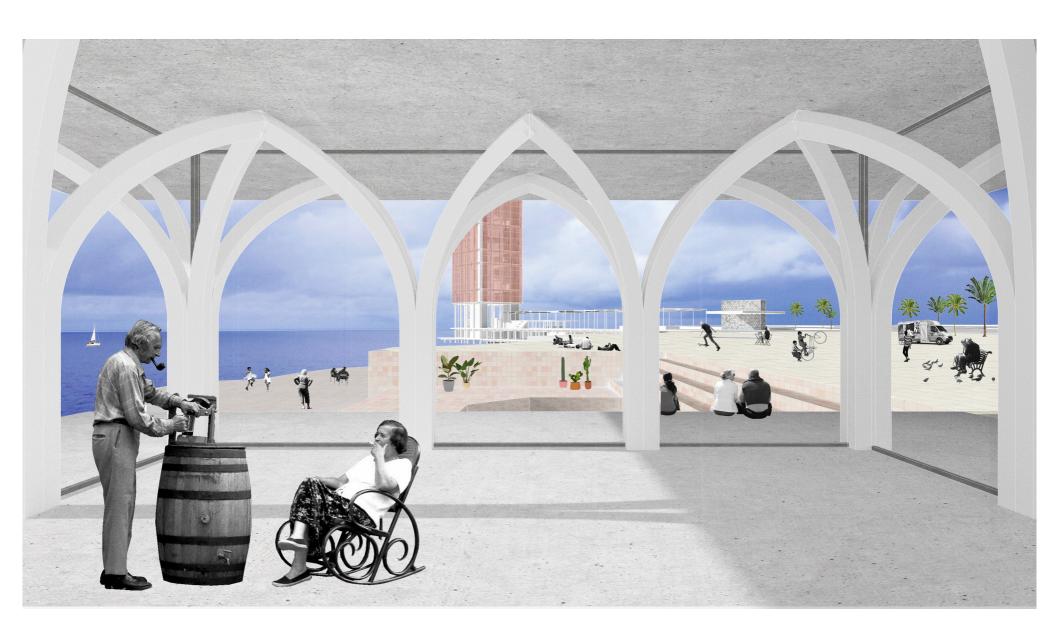


# **UNDERGROUND CONNECTION**

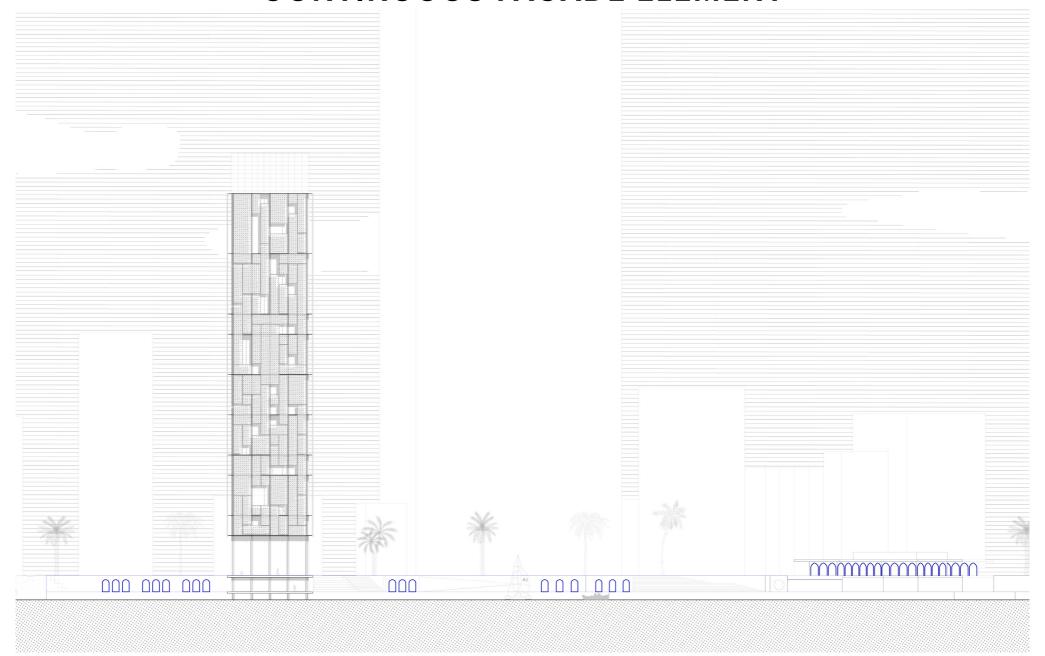


### 04 design concept

## **RECONNECTING OLD & NEW**



## **CONTINUOUS FACADE ELEMENT**





## **PROGRAM**



## **PROGRAM**



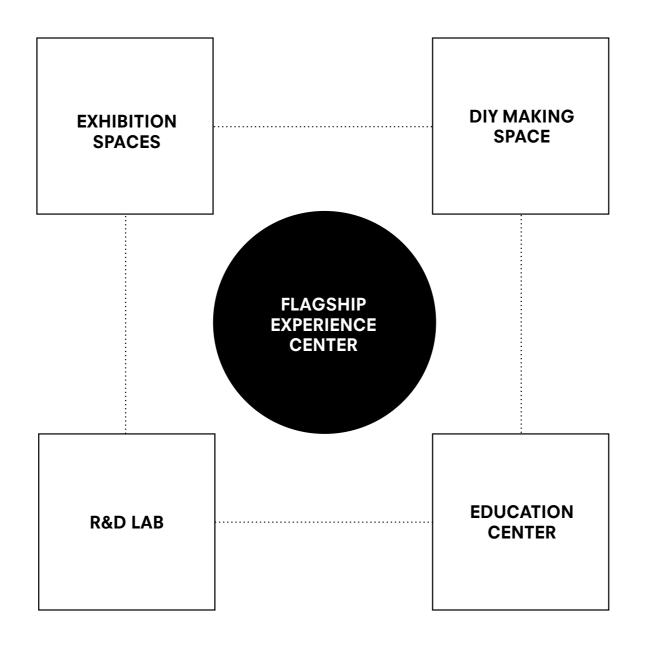






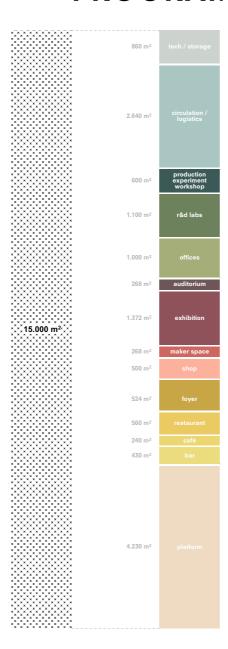


### **PROGRAM**



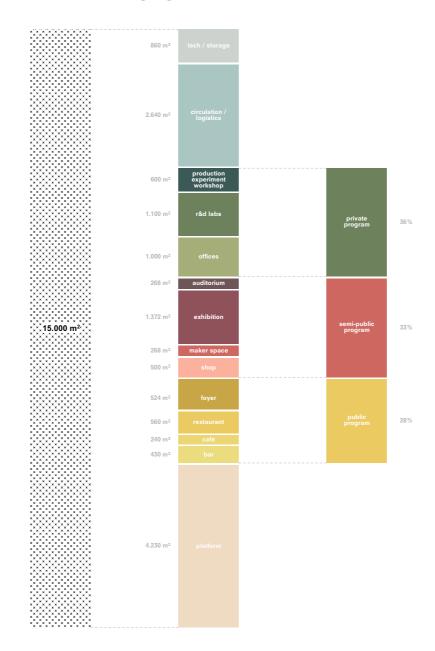
### 04 design concept

## **PROGRAM BAR**



### 04 design concept

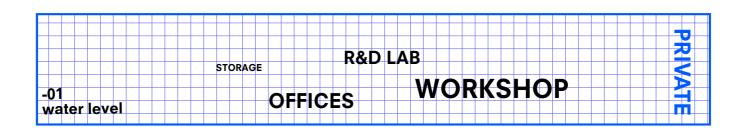
## **PROGRAM BAR**



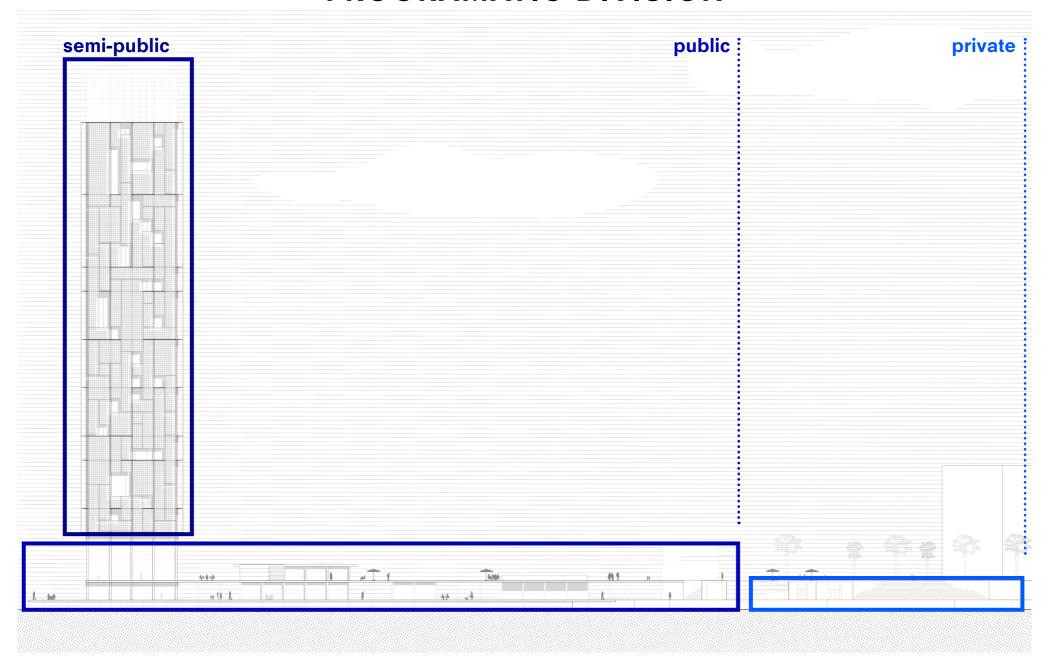
### **PROGRAM DIVISION**



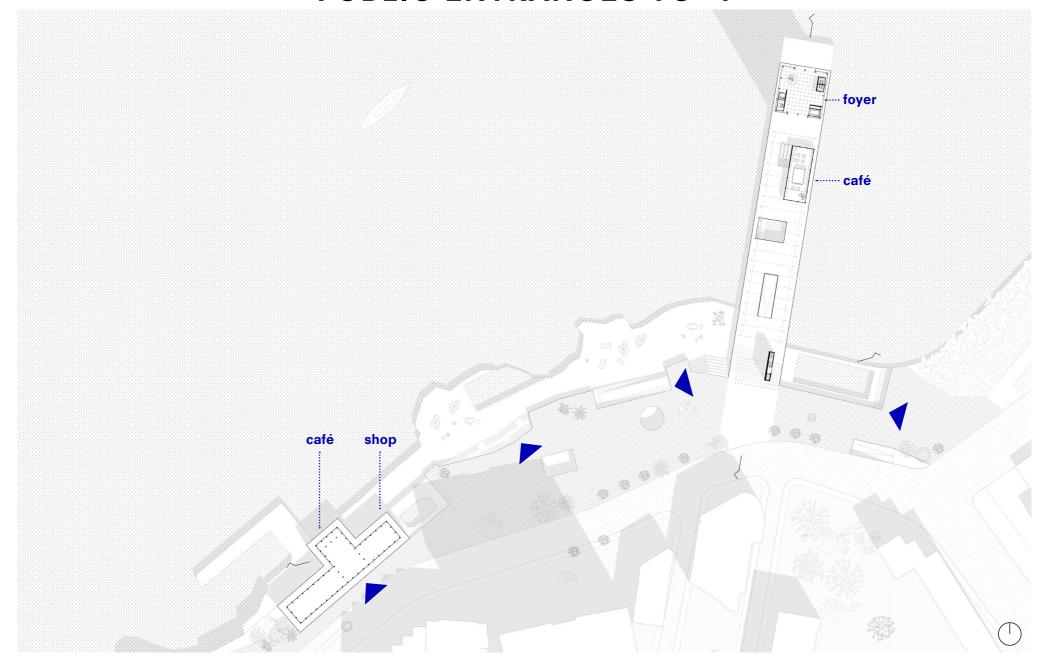




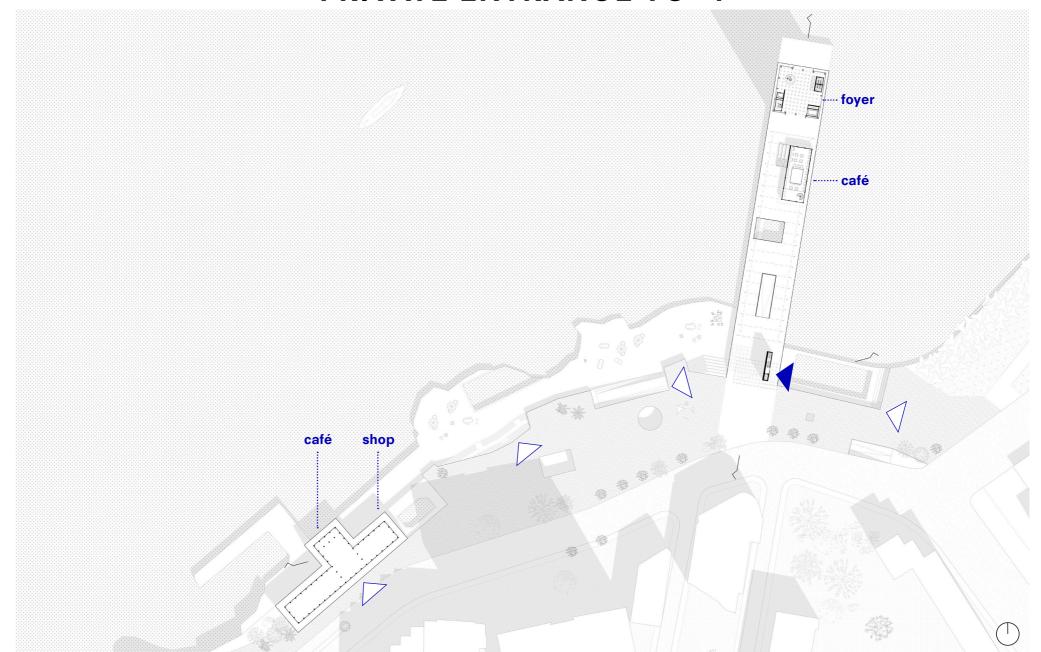
## **PROGRAMATIC DIVISION**



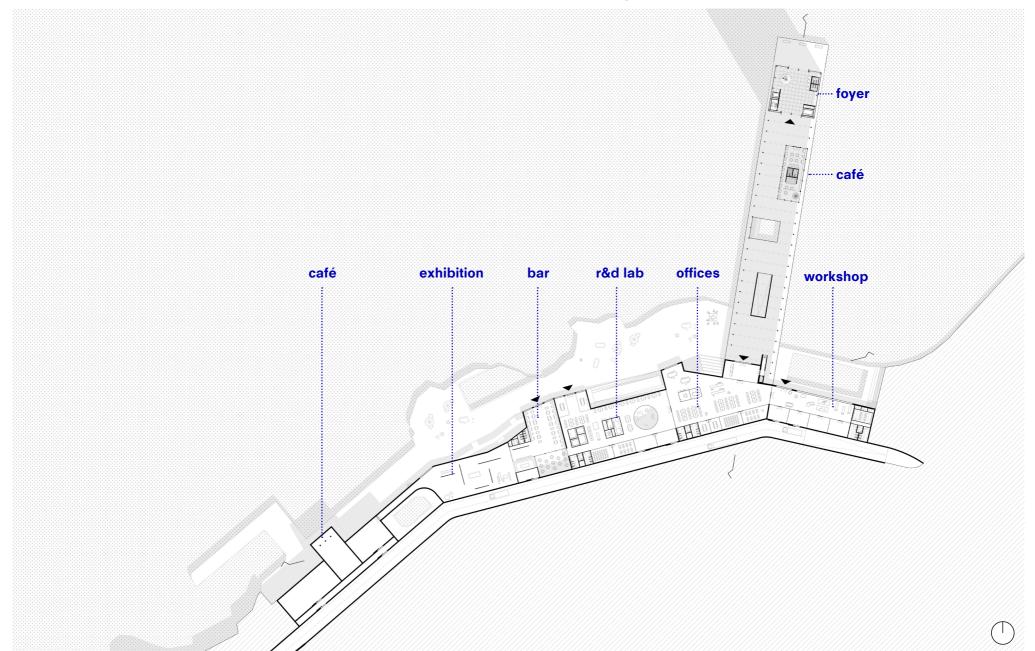
# **PUBLIC ENTRANCES TO -1**



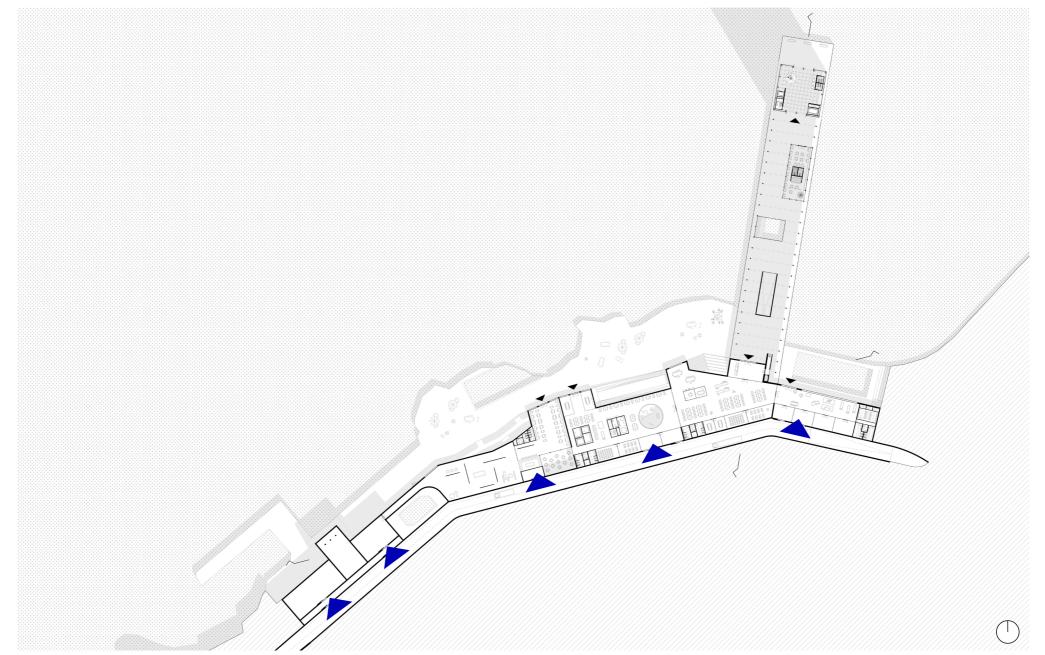
# PRIVATE ENTRANCE TO -1



# **WATER LEVEL -01**



# **LOGISTIC ACCESS**



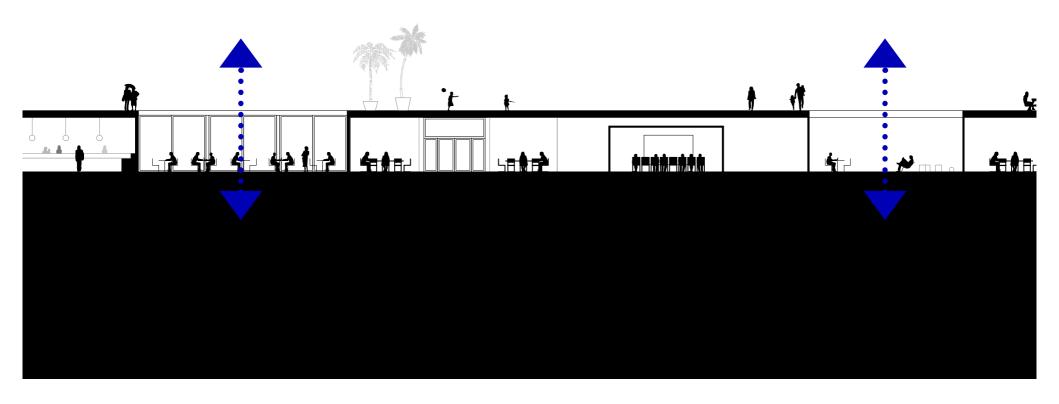
# **VISUAL CONNECTIONS**



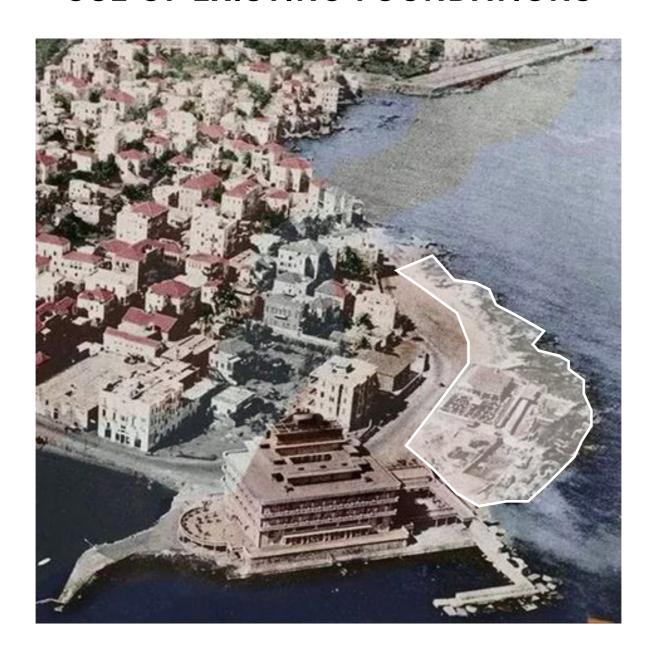
# **TOPOGRAPHICAL VOIDS**



## **CONNECTING BOTH LEVELS**



# **USE OF EXISTING FOUNDATIONS**

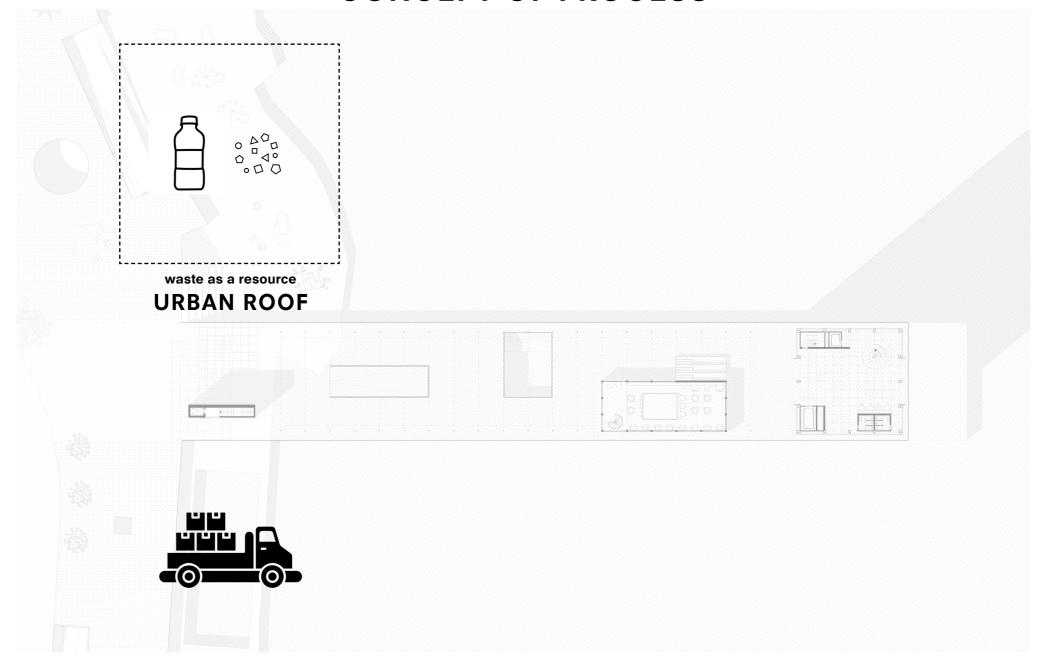


# **GROUND FLOOR 00**

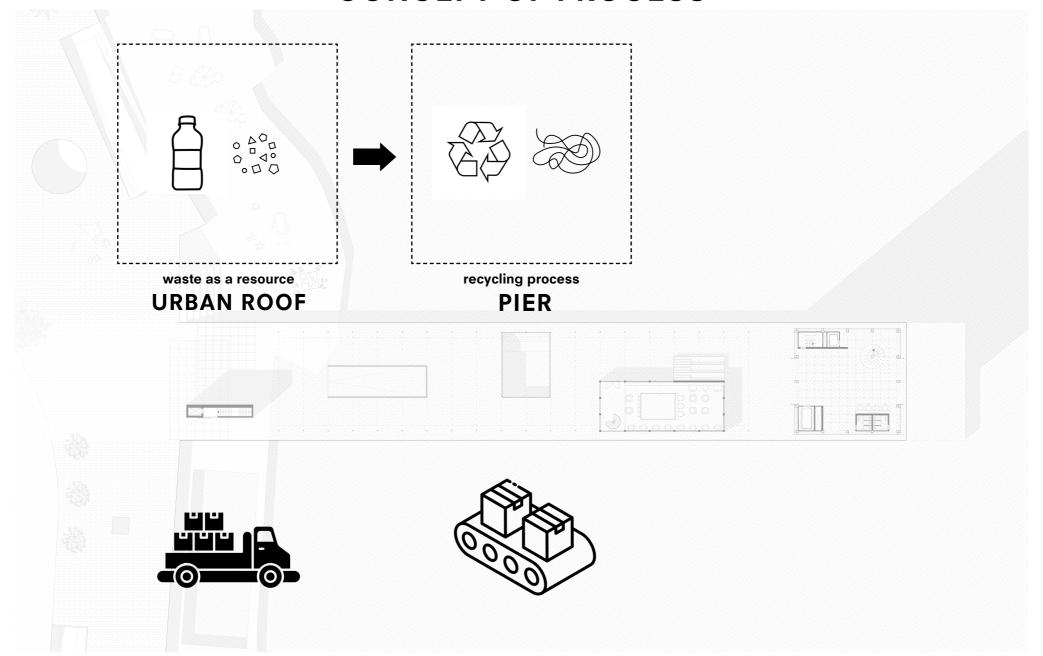




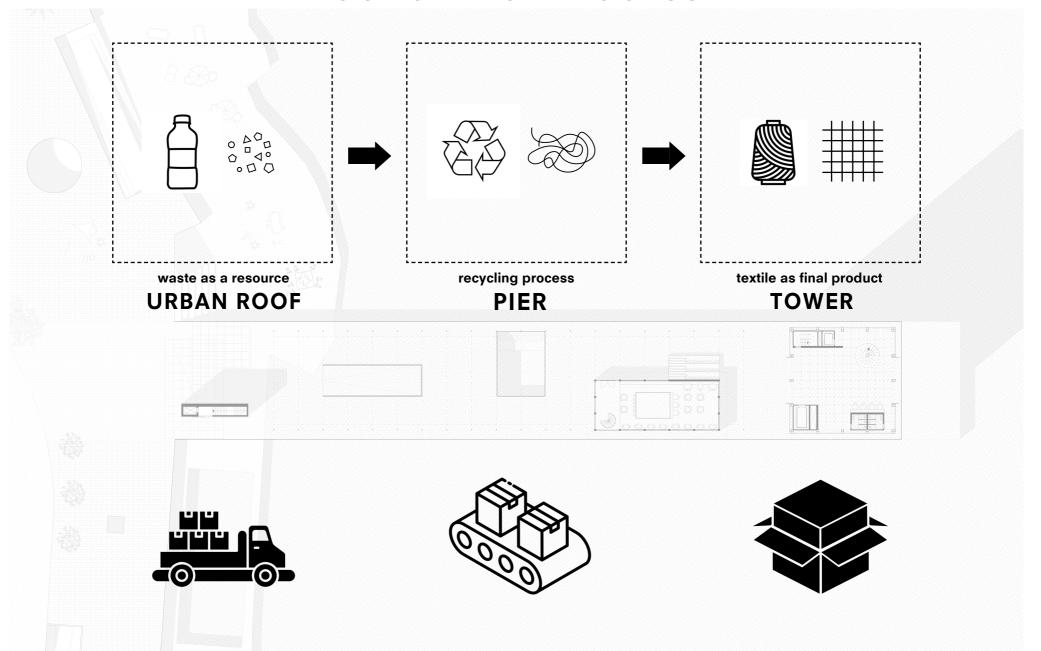
## **CONCEPT OF PROCESS**



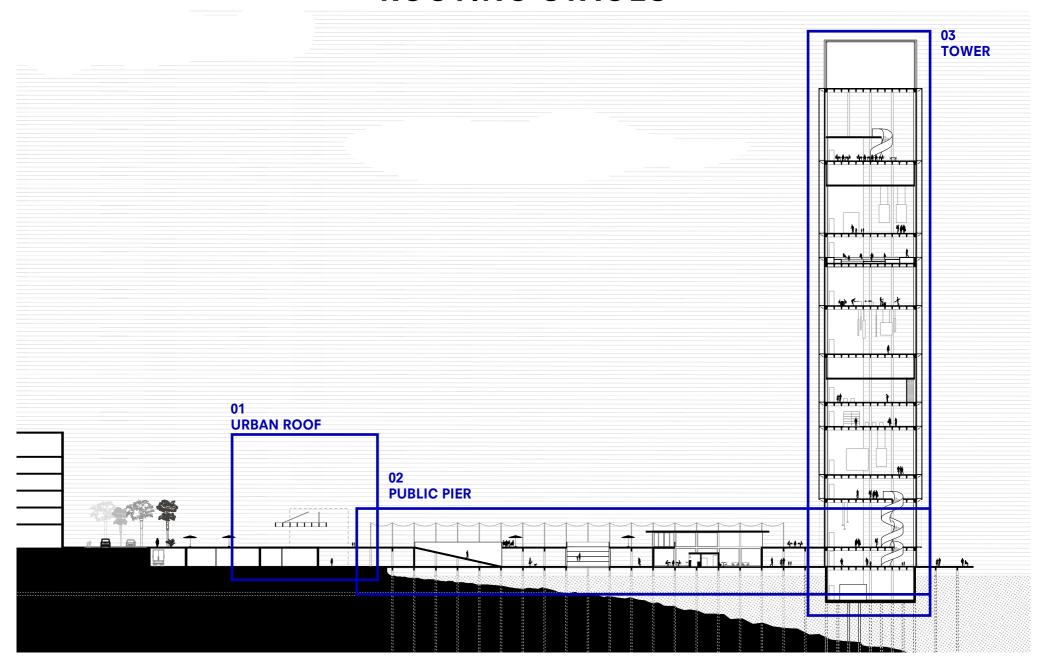
## **CONCEPT OF PROCESS**



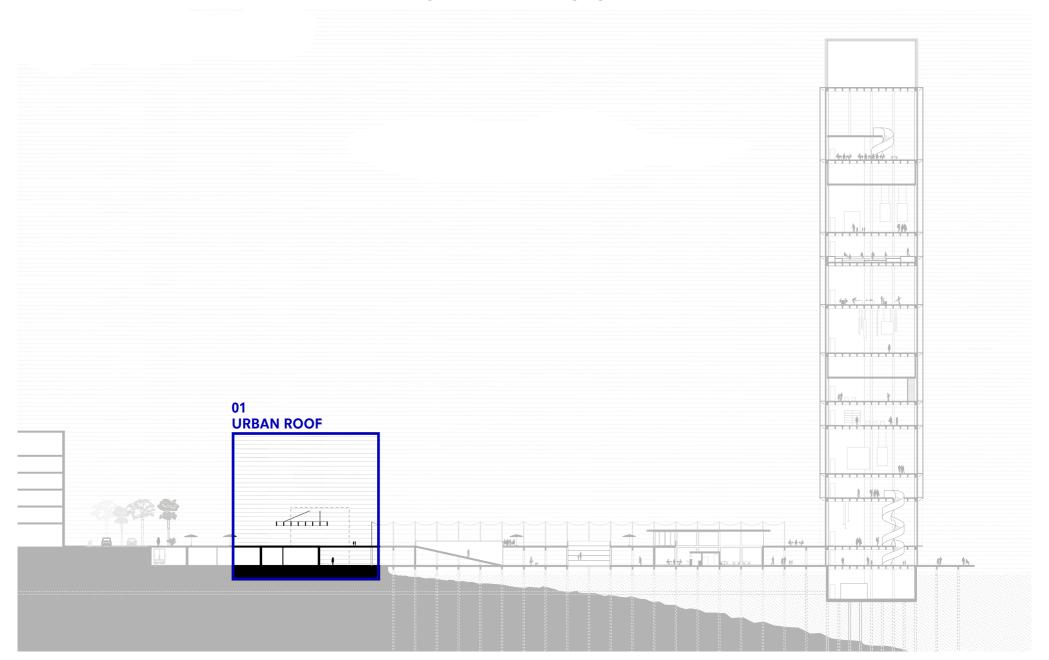
#### **CONCEPT OF PROCESS**



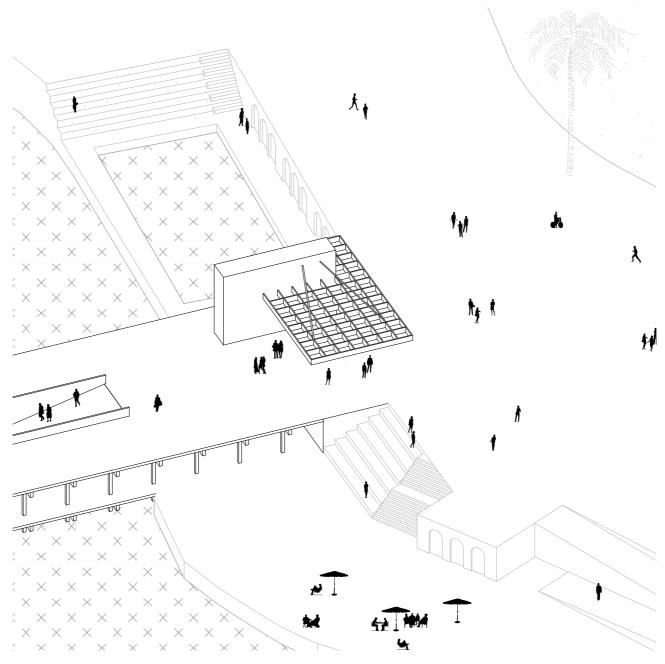
# **ROUTING STAGES**



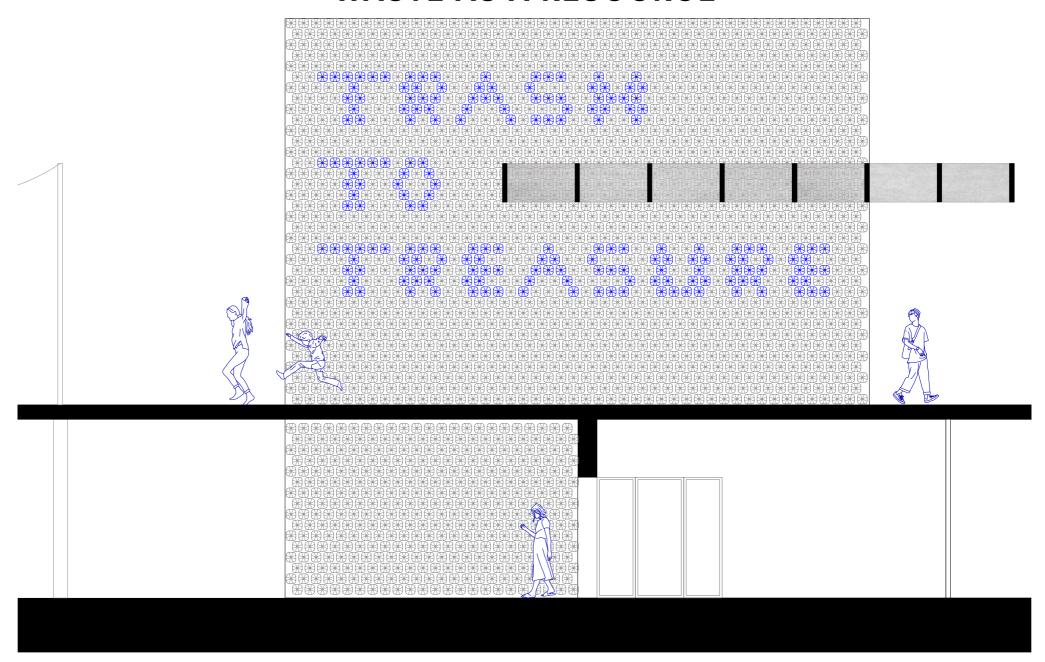
## **URBAN ROOF**



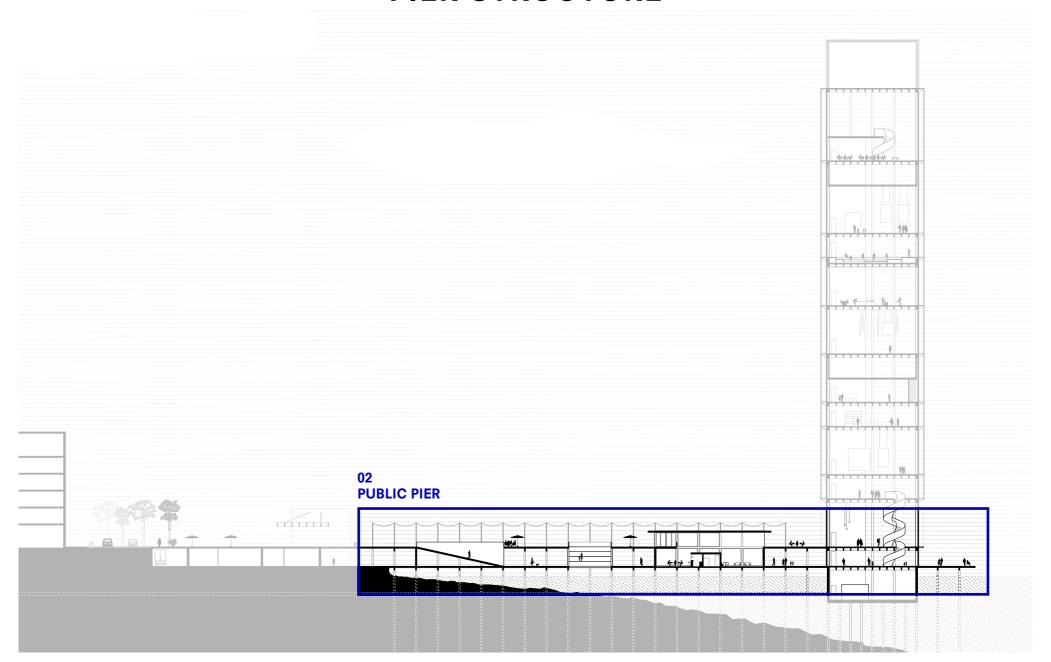
## **URBAN ROOF**



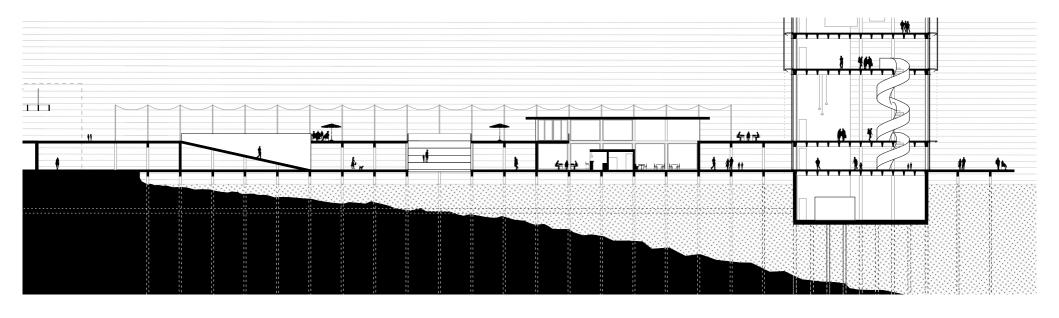
#### **WASTE AS A RESOURCE**



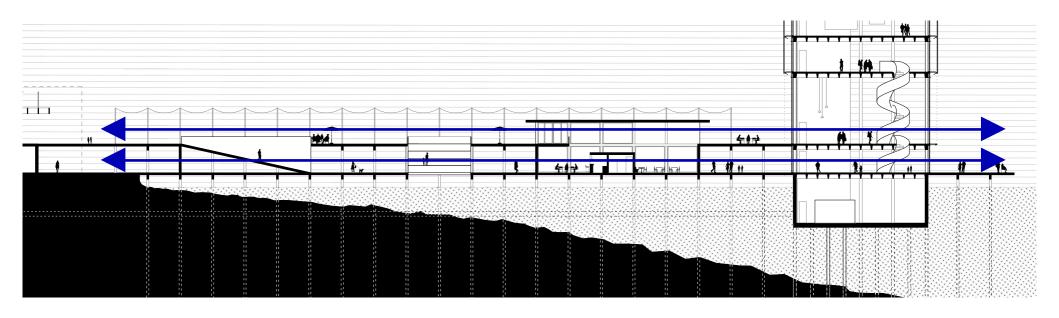
## PIER STRUCTURE



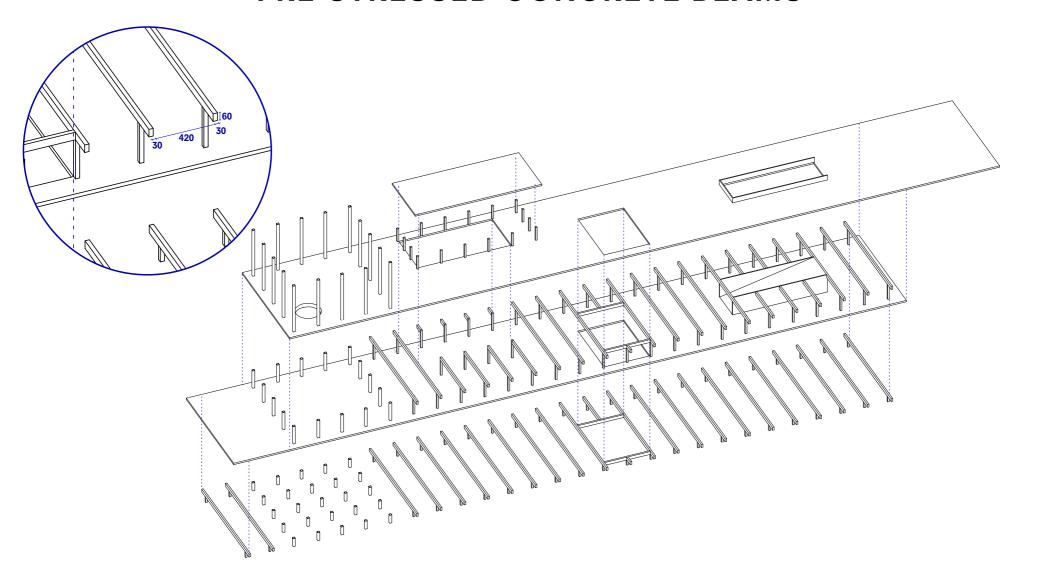
## **PUBLIC PIER**



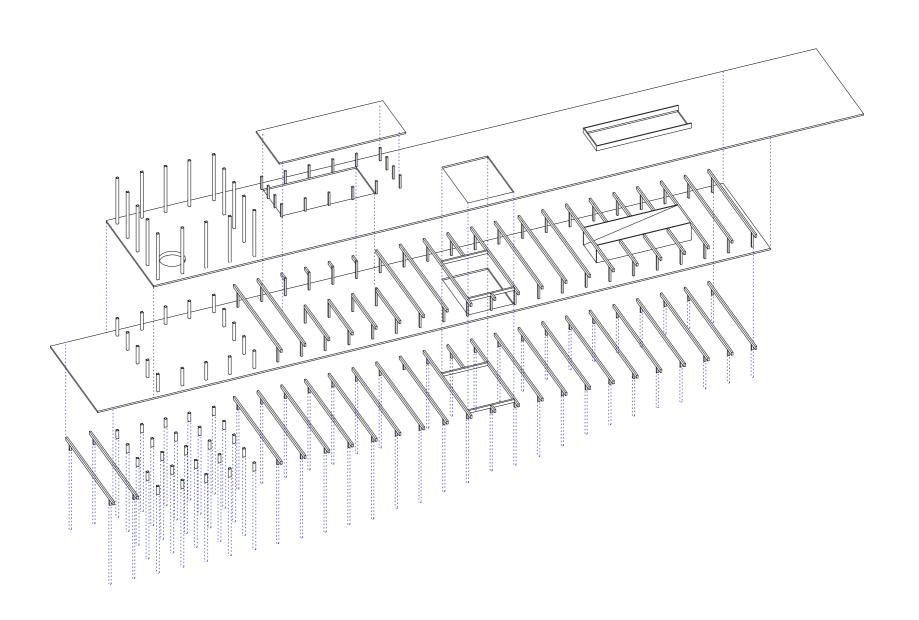
## **PUBLIC PIER**



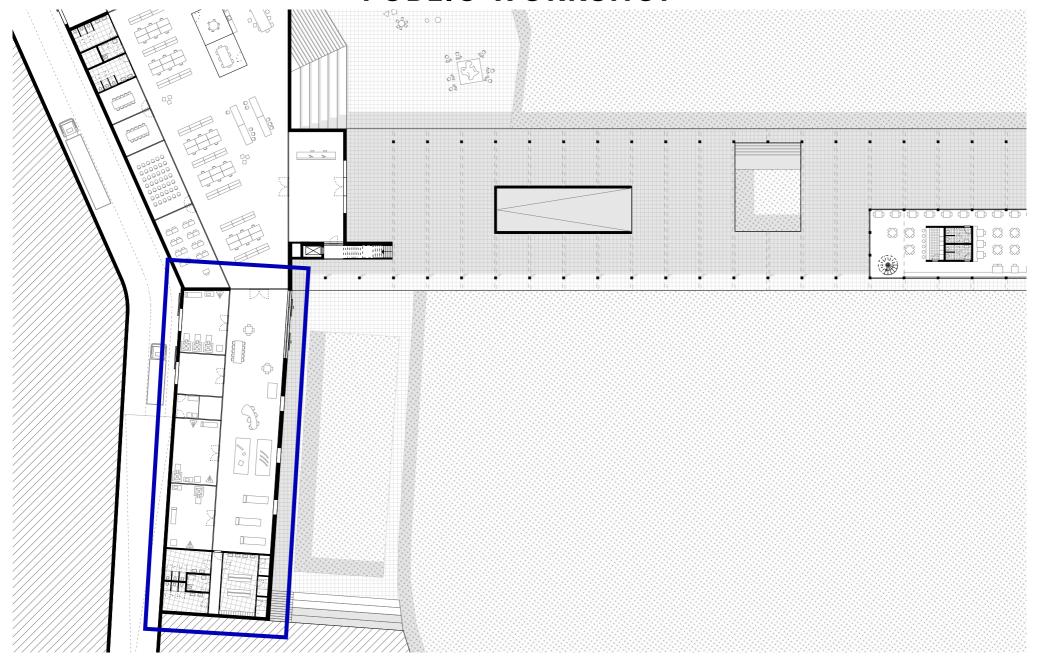
## PRE-STRESSED CONCRETE BEAMS



## **PRE-STRESSED CONCRETE BEAMS**



# **PUBLIC WORKSHOP**



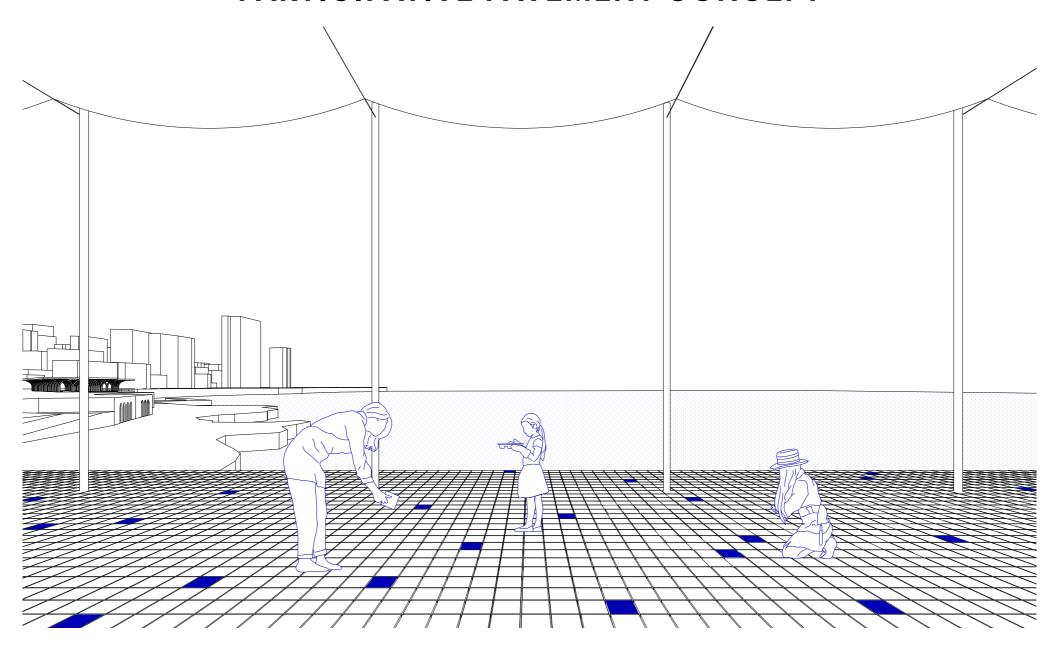
## **PLASTIC RECYCLED TILES**



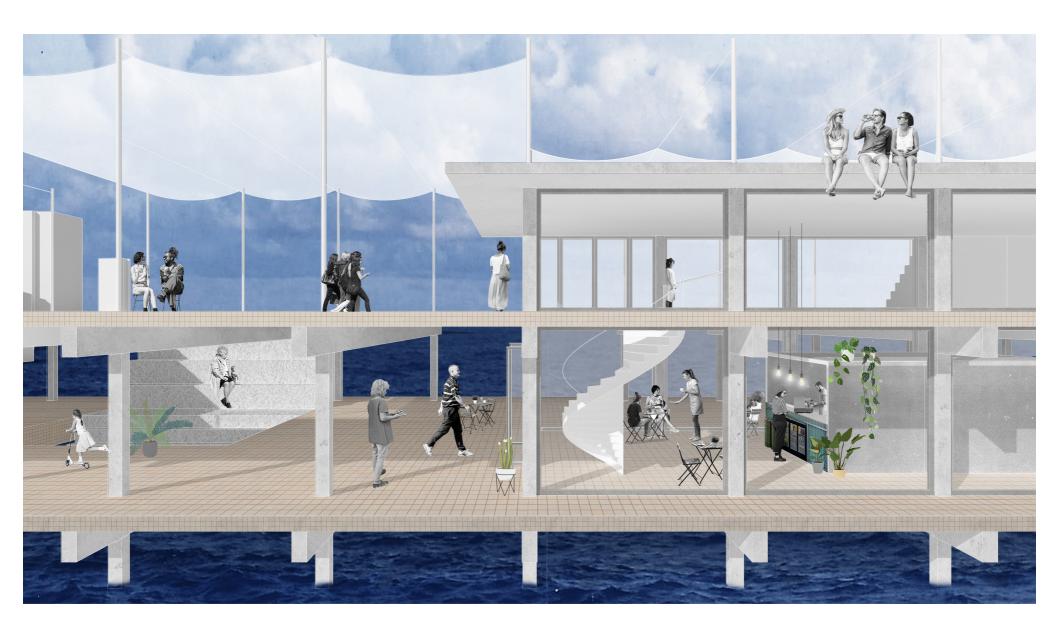




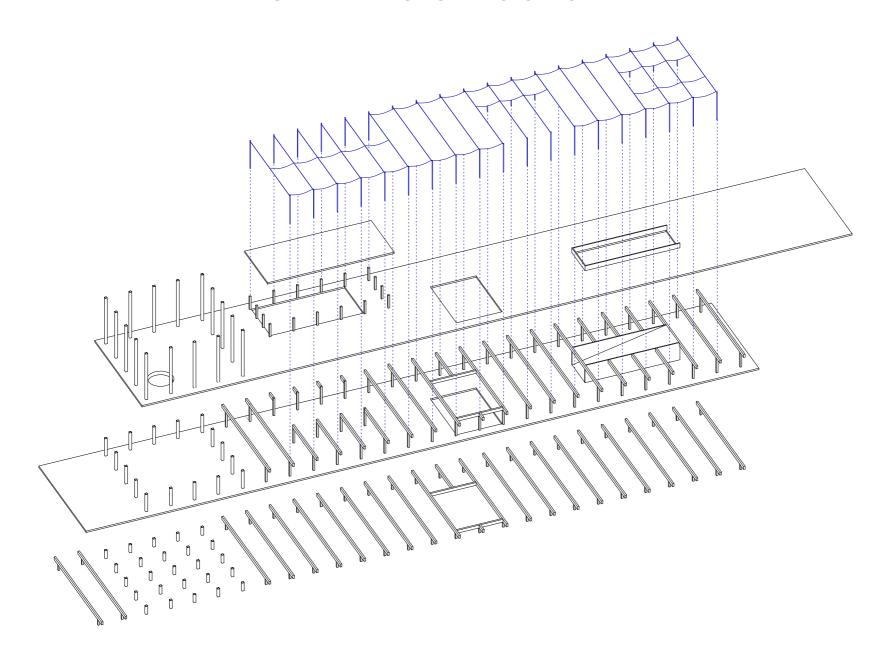
### PARTICIPATIVE PAVEMENT CONCEPT



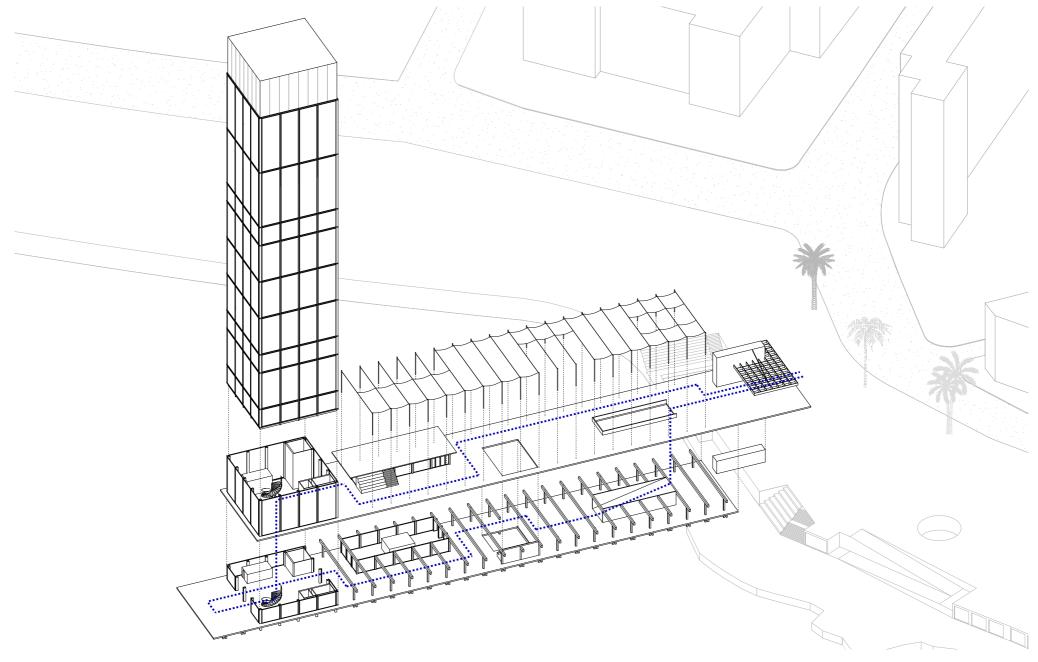
## **TEXTILE SHADING ELEMENTS**



# **SHADING STRUCTURE**



# **CONTINUOUS PUBLIC SPACE**



# **MORNING SCENARIO**



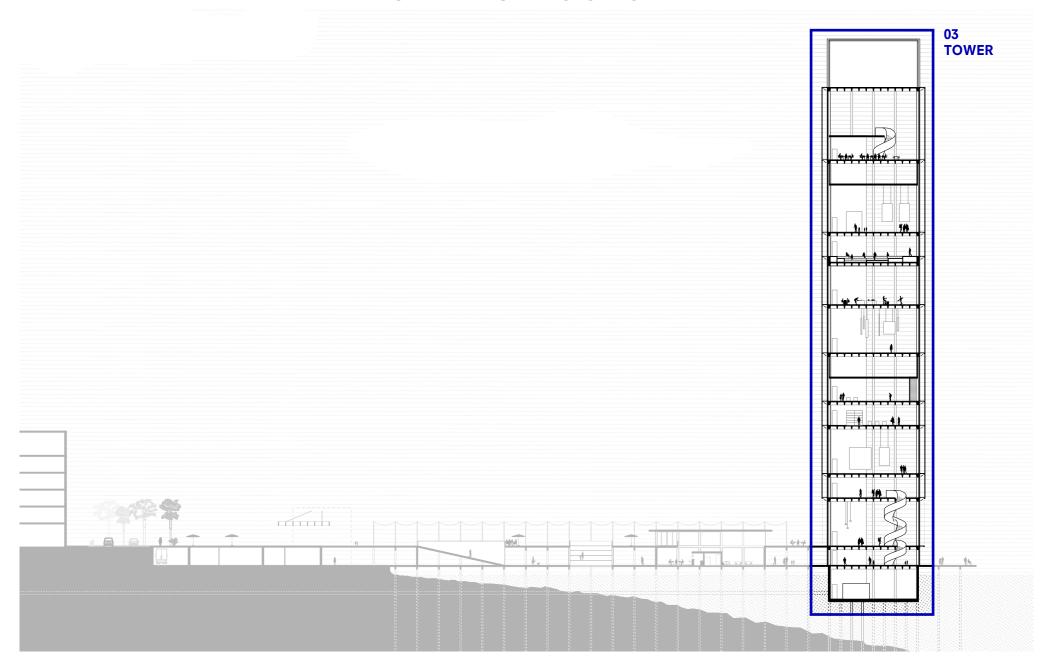
# **AFTERNOON SCENARIO**



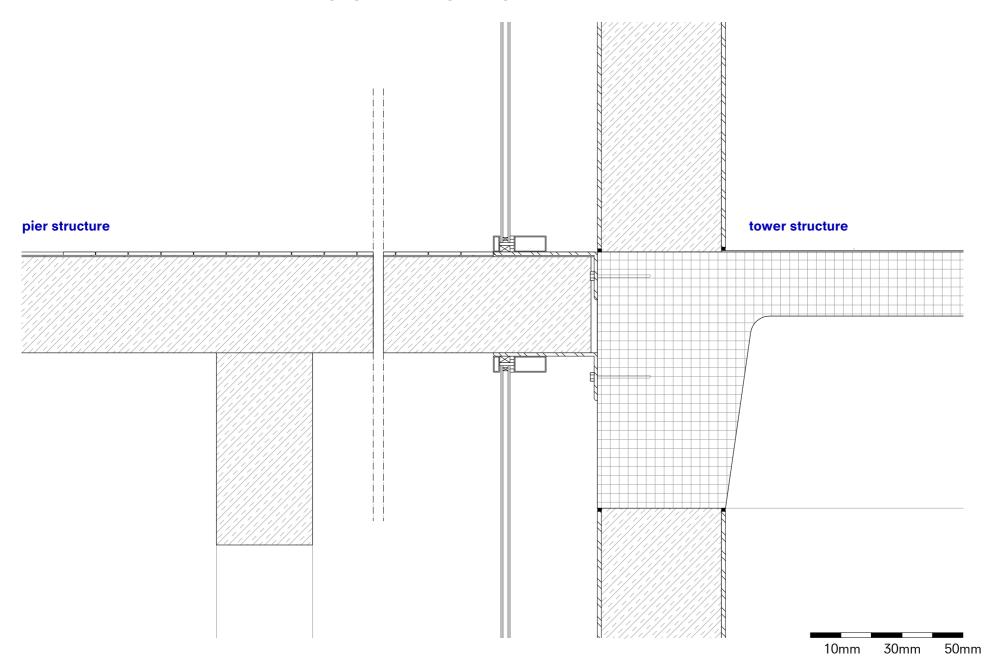
# **EVENING SCENARIO**



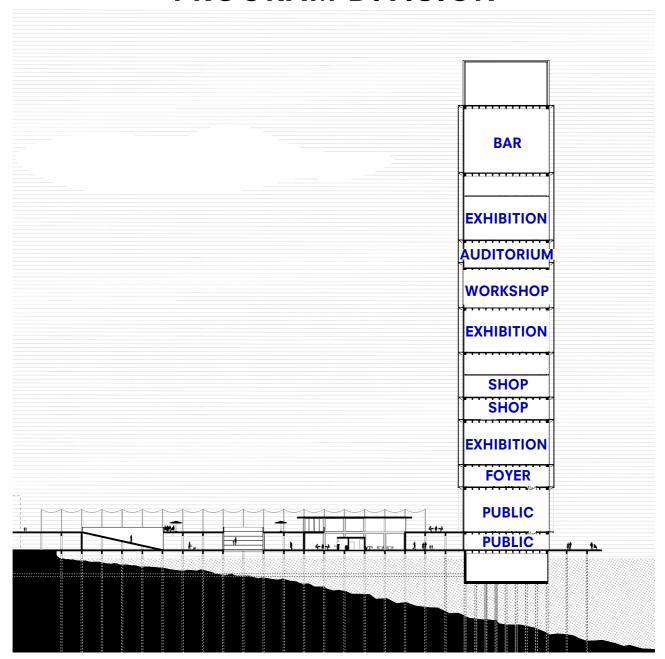
## **TOWER STRUCTURE**



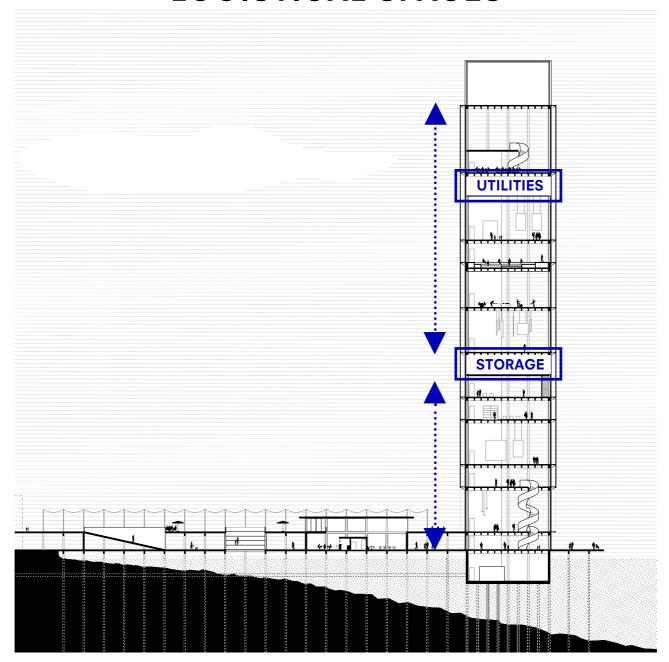
## **CONNECTION DETAIL**



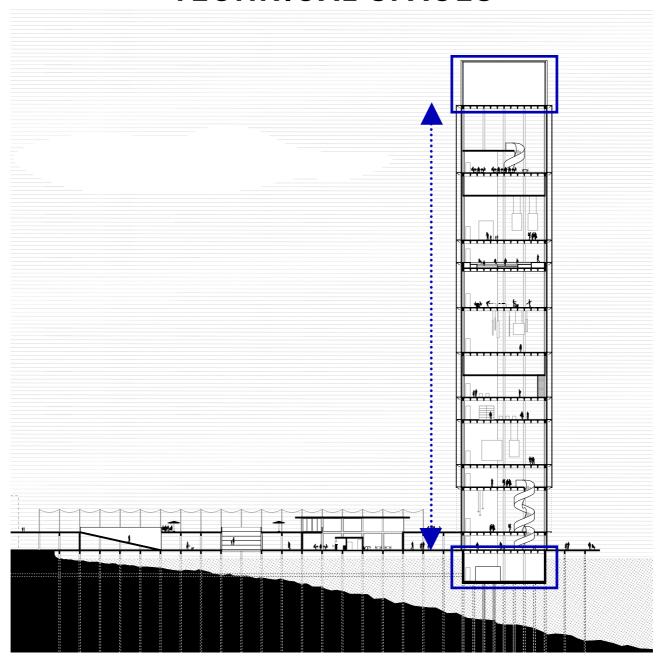
# **PROGRAM DIVISION**



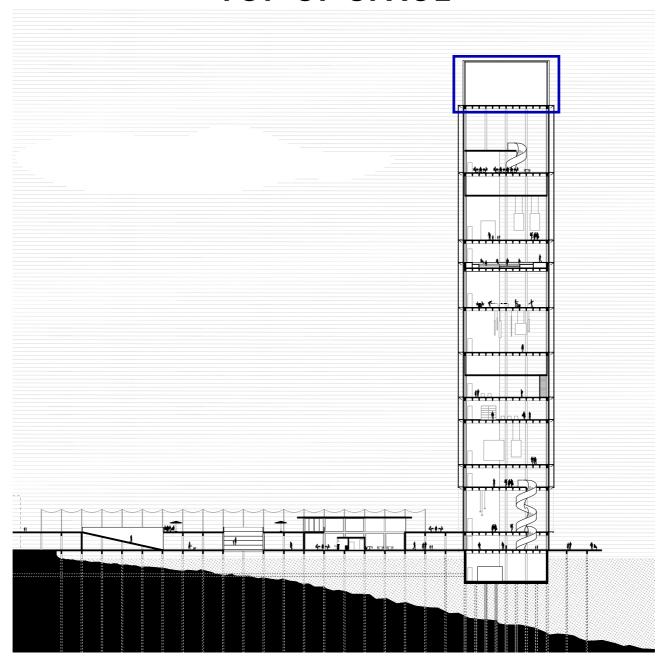
# LOGISTICAL SPACES



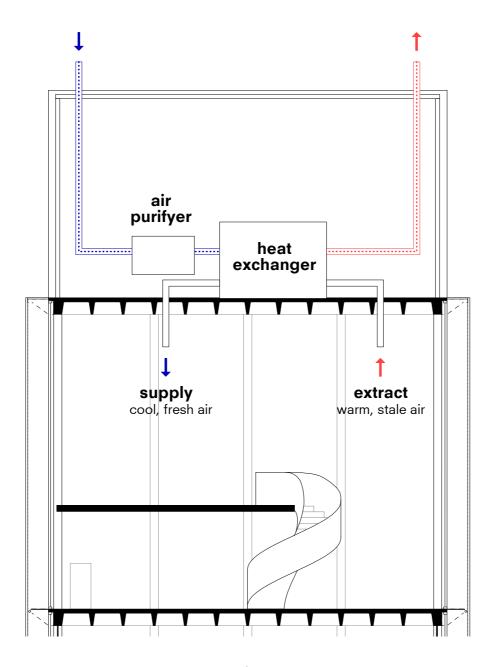
# **TECHNICAL SPACES**



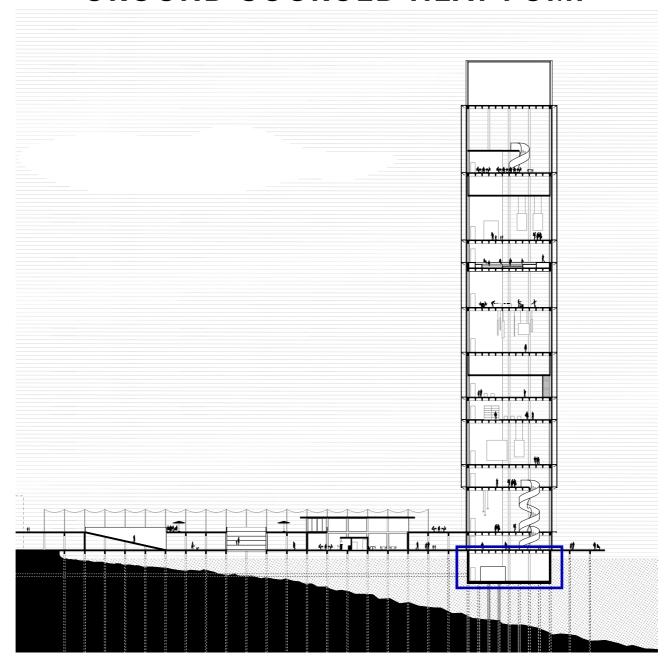
# **TOP-UP SPACE**



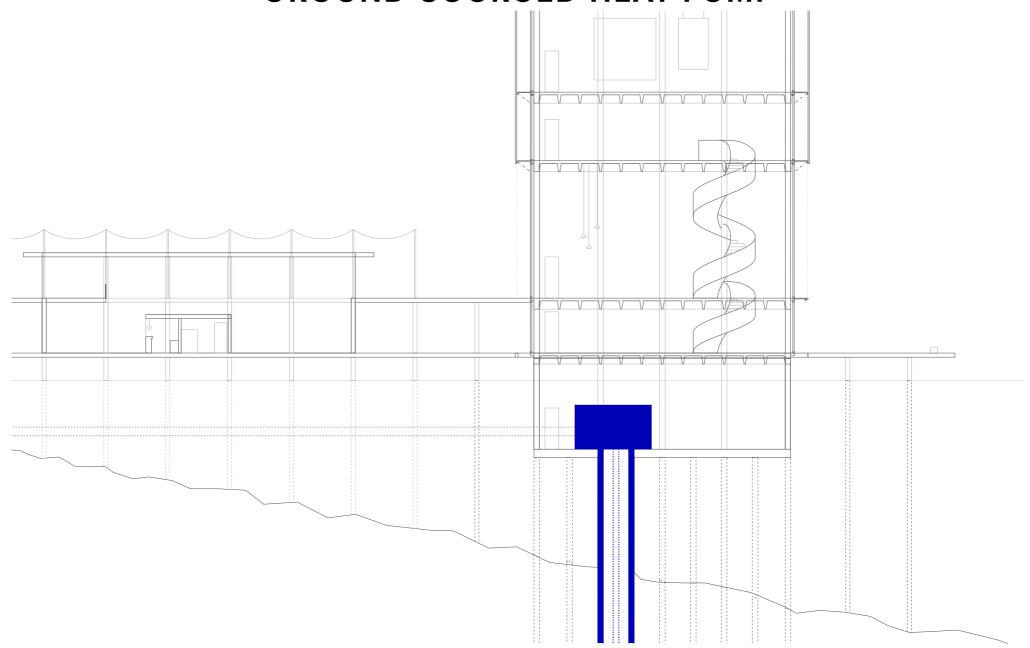
### **MECHANICAL VENTILATION**



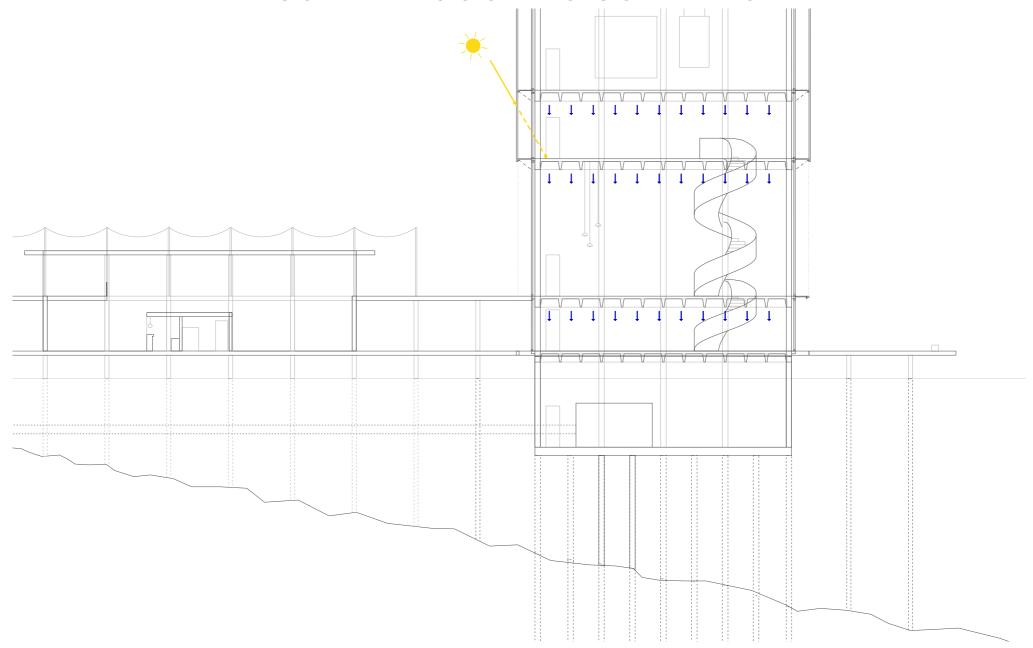
# **GROUND-SOURCED HEAT PUMP**



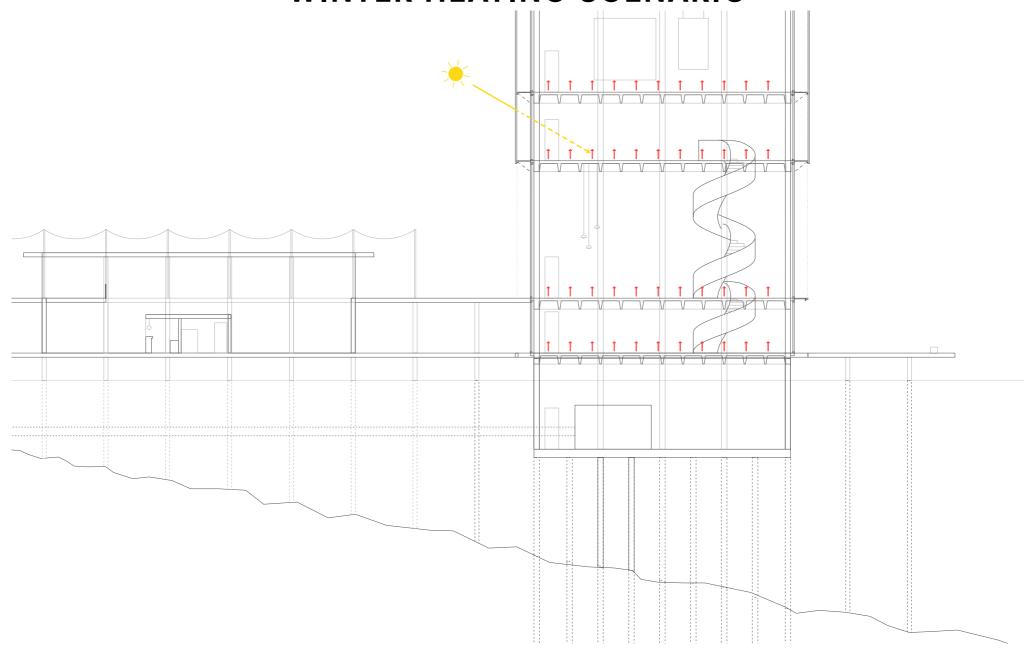
### **GROUND-SOURCED HEAT PUMP**



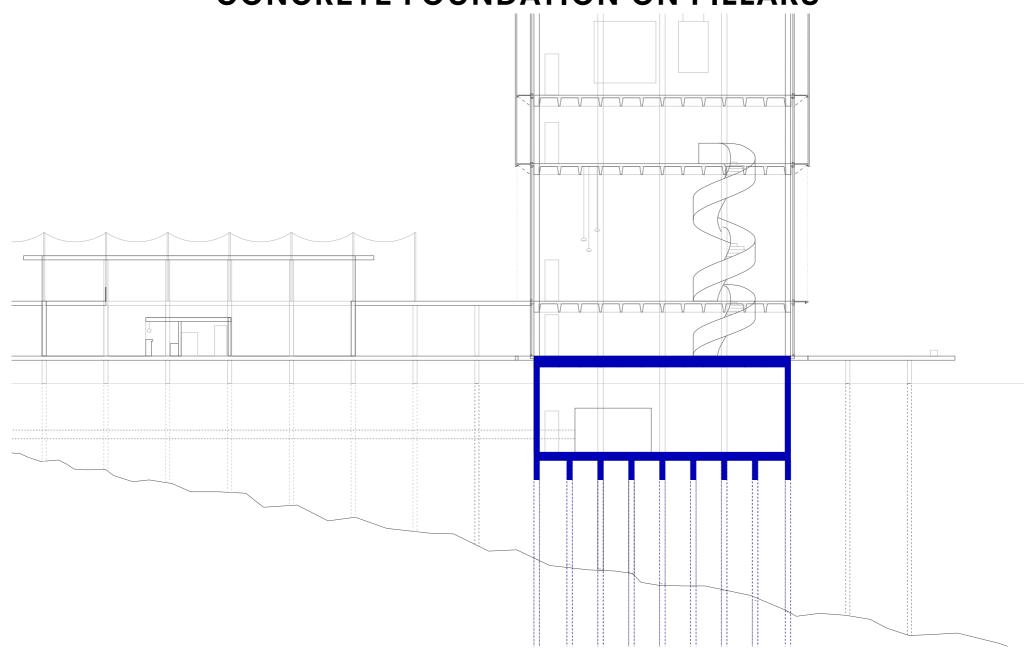
### **SUMMER COOLING SCENARIO**



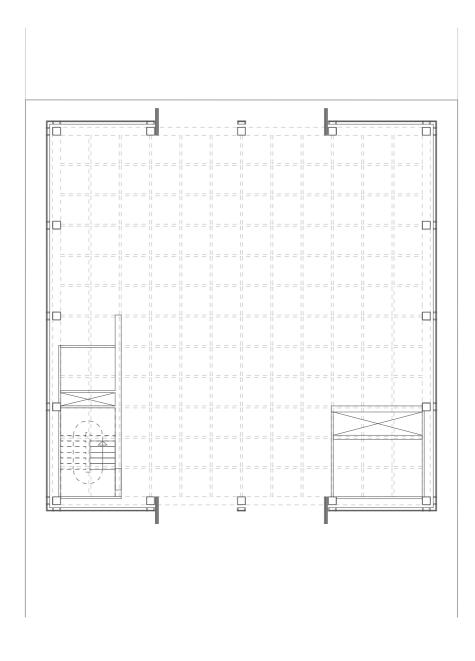
### WINTER HEATING SCENARIO



### **CONCRETE FOUNDATION ON PILLARS**



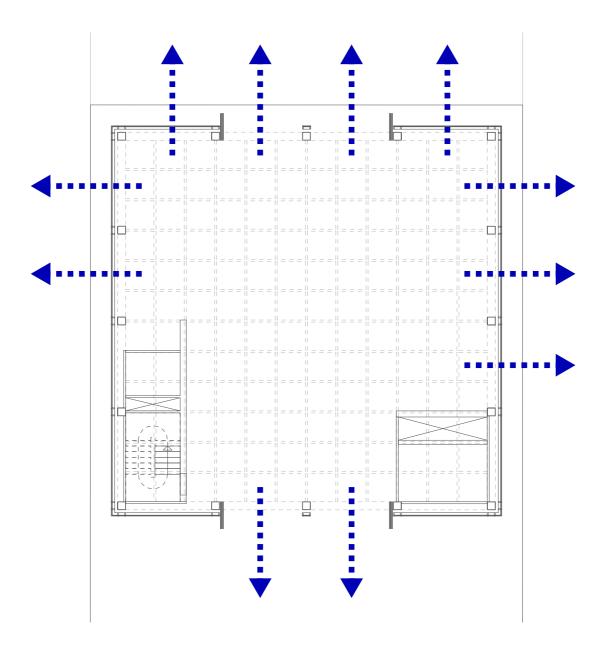
# **INTERIOR CONCEPT**



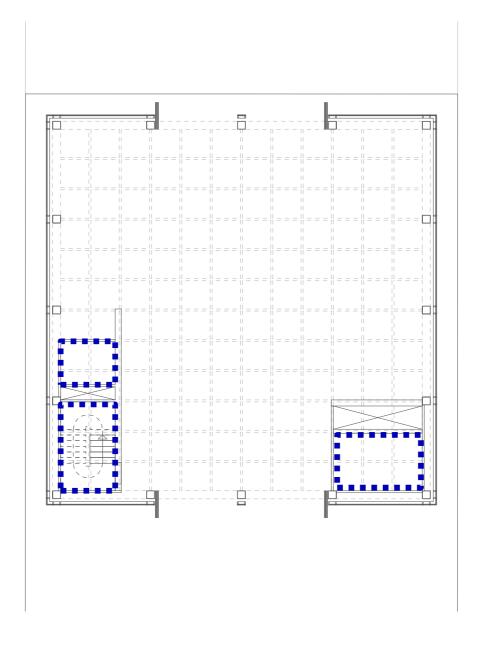
floor plan 00



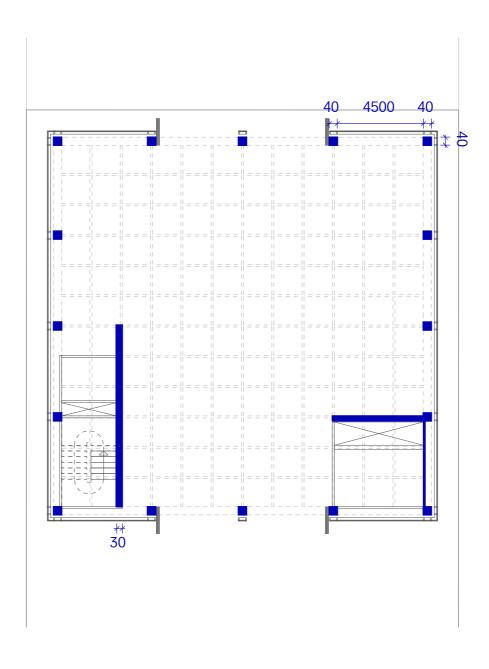
# **OPEN VIEWS**



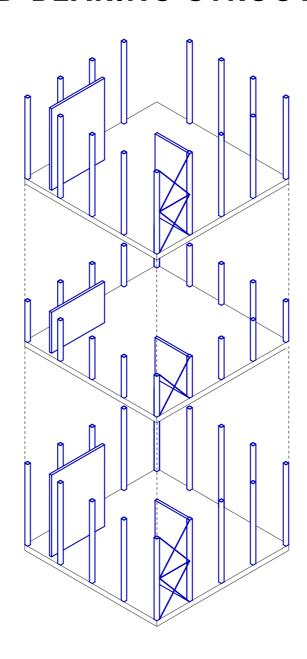
# **HIDDEN CIRCULATION**



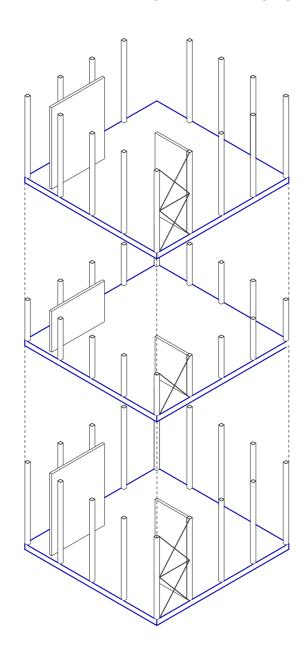
### **LOAD-BEARING ELEMENTS**



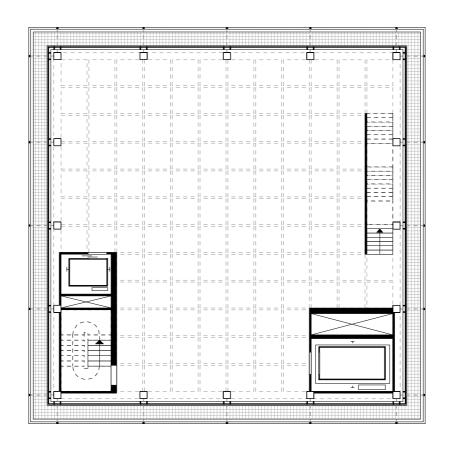
# LOAD-BEARING STRUCTURE

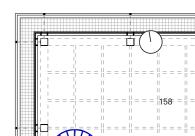


# **WAFFLE CEILINGS**

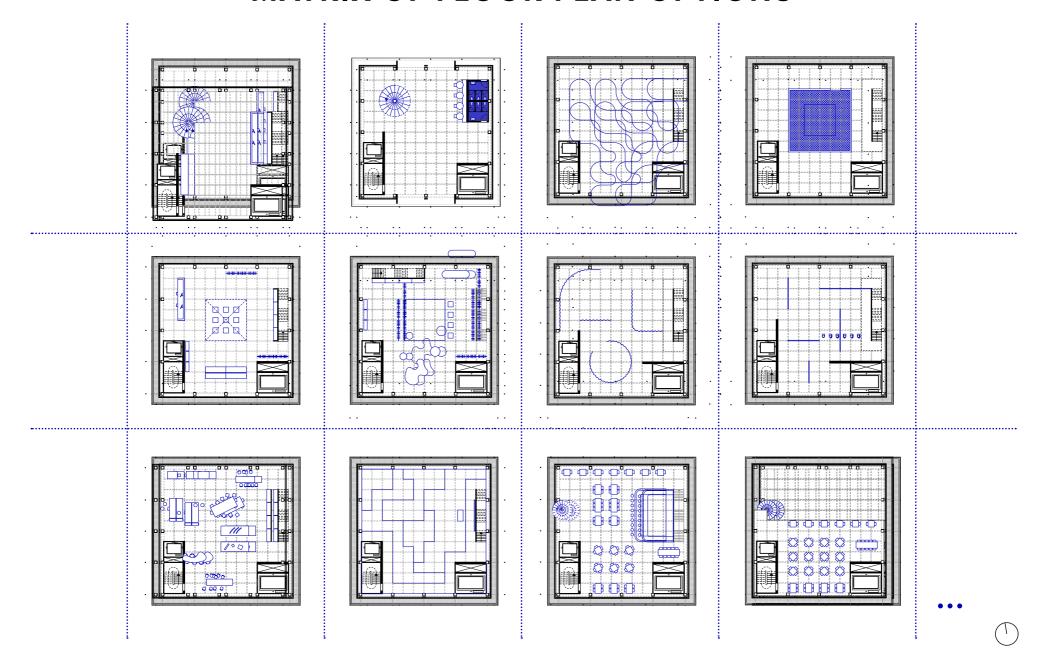


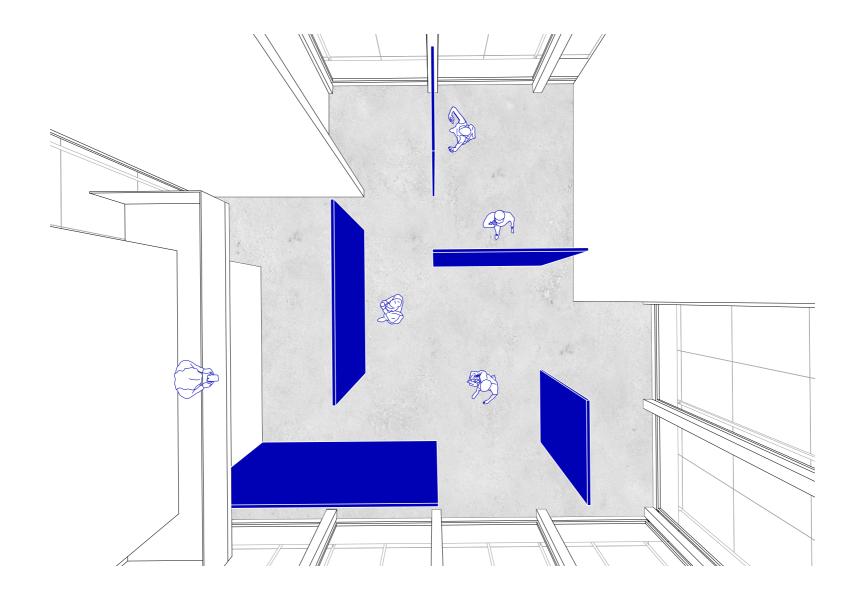
# **'BASE LAYER'**

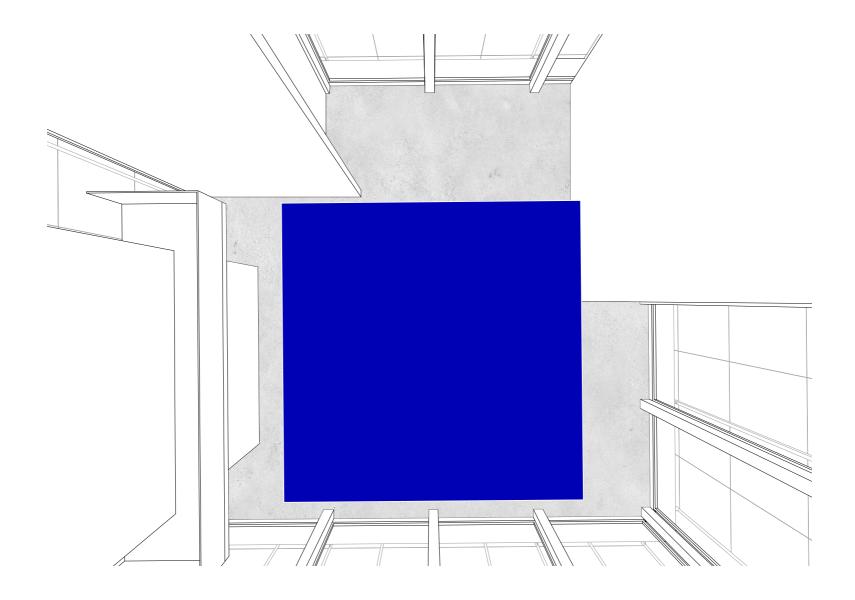


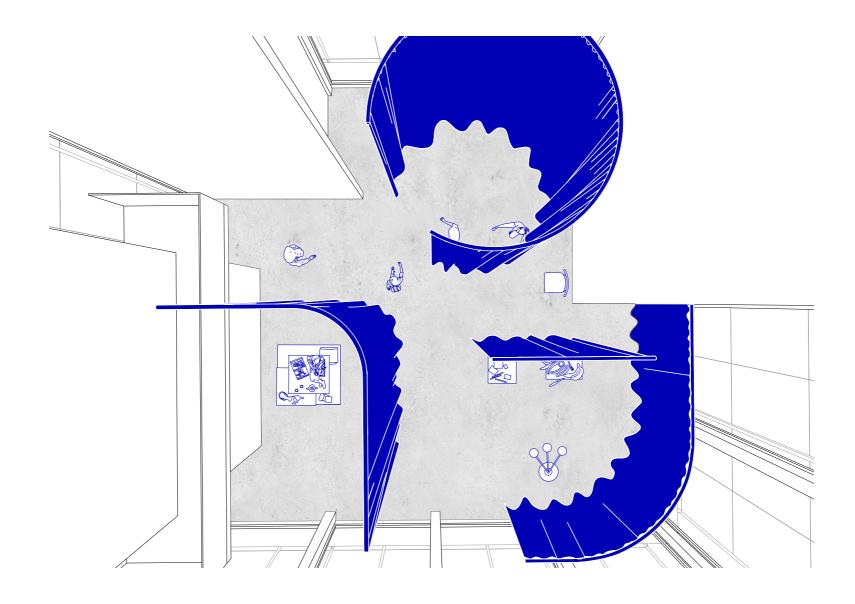


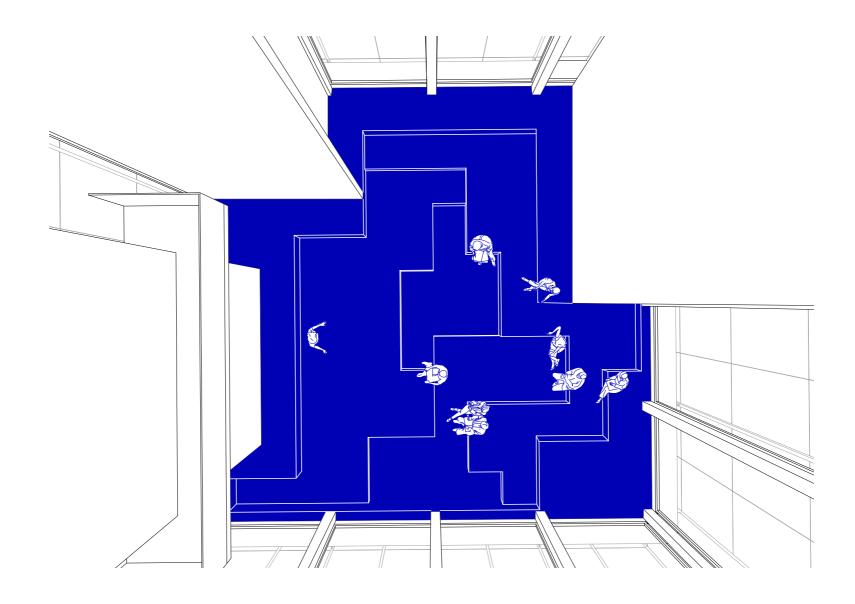
### MATRIX OF FLOOR PLAN OPTIONS



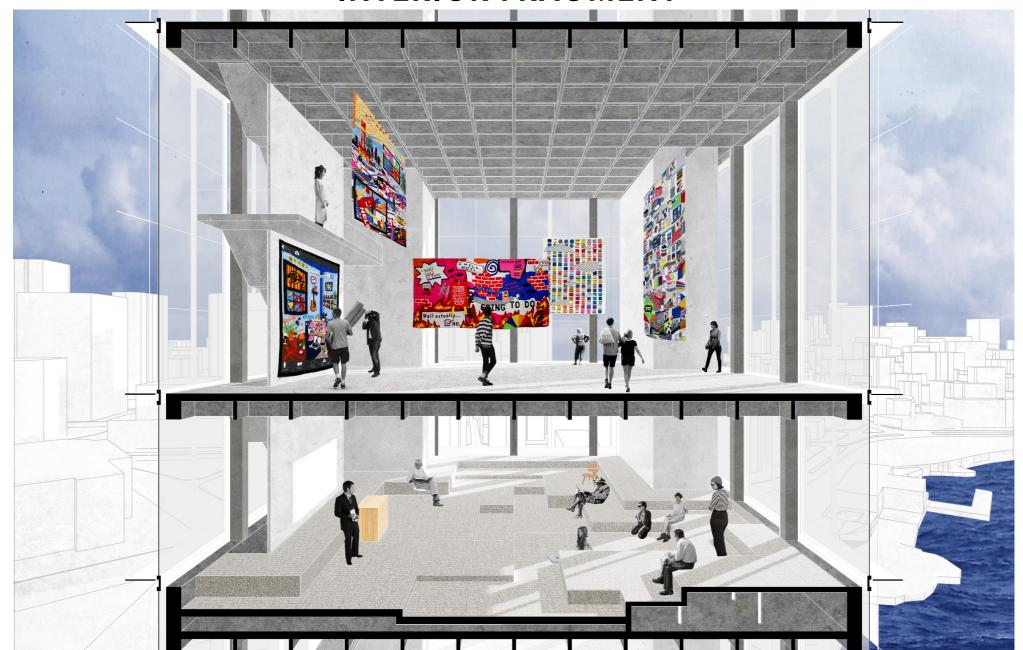




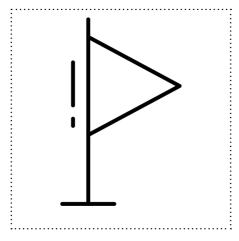




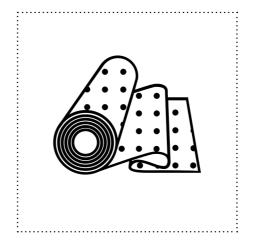
# **INTERIOR FRAGMENT**



#### **FLAGSHIP REPRESENTATION**



FLAGSHIP EXPERIENCE CENTER

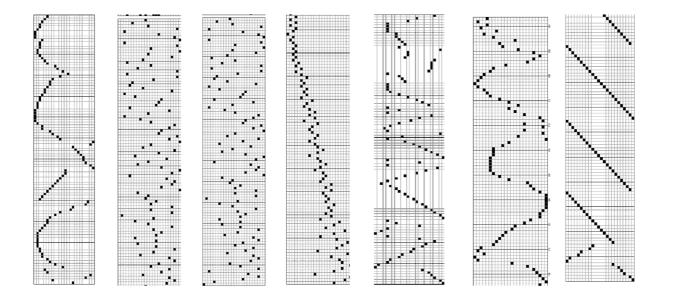


REVIVED TEXTILE INDUSTRY

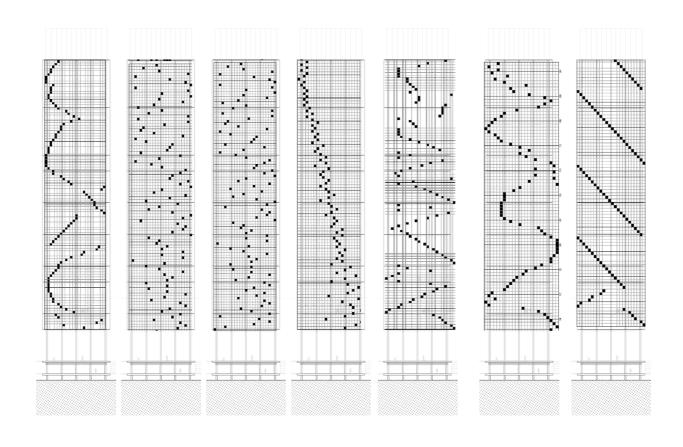
### **WEAVING FRAME CONCEPT**



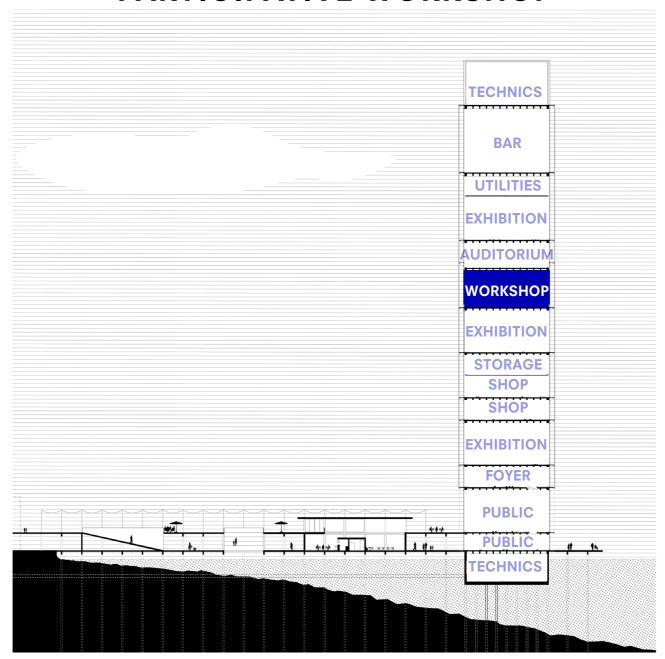
### **WEAVING PATTERNS**



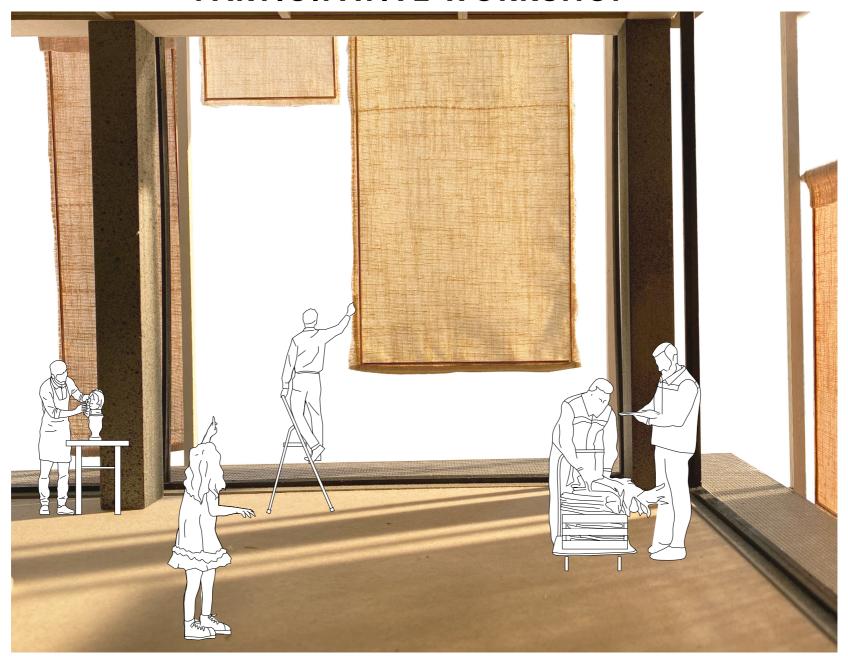
### **FACADE PATTERNS**



### **PARTICIPATIVE WORKSHOP**

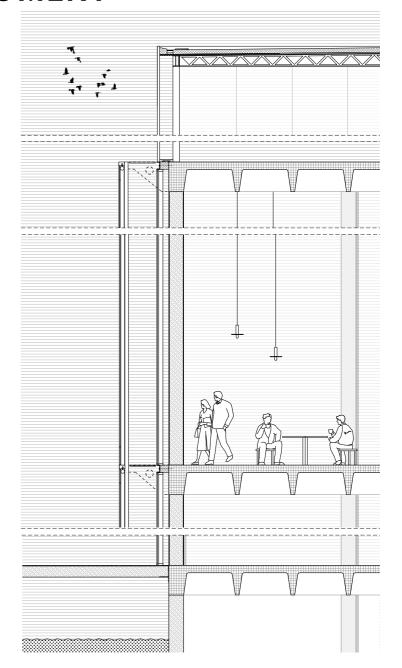


# **PARTICIPATIVE WORKSHOP**

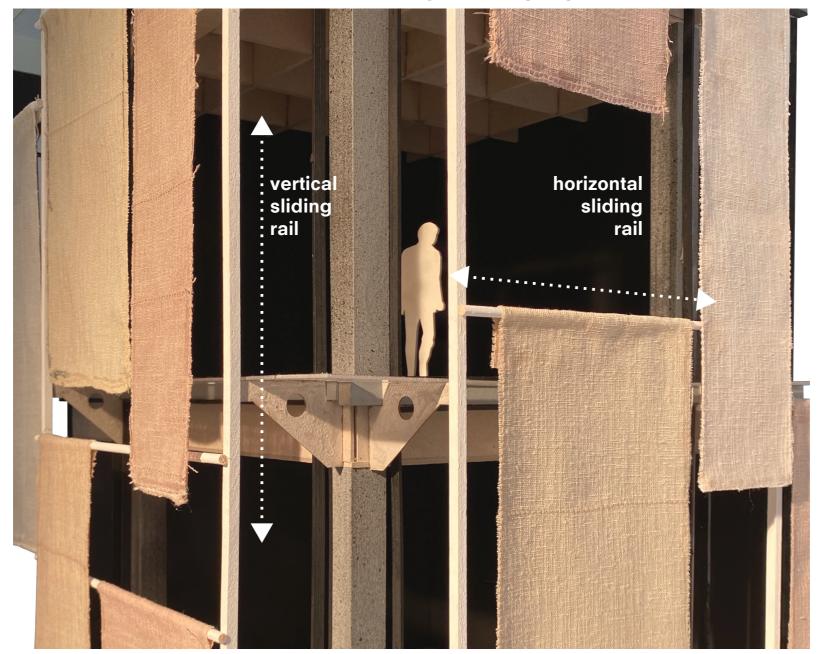


# **FACADE FRAGMENT**

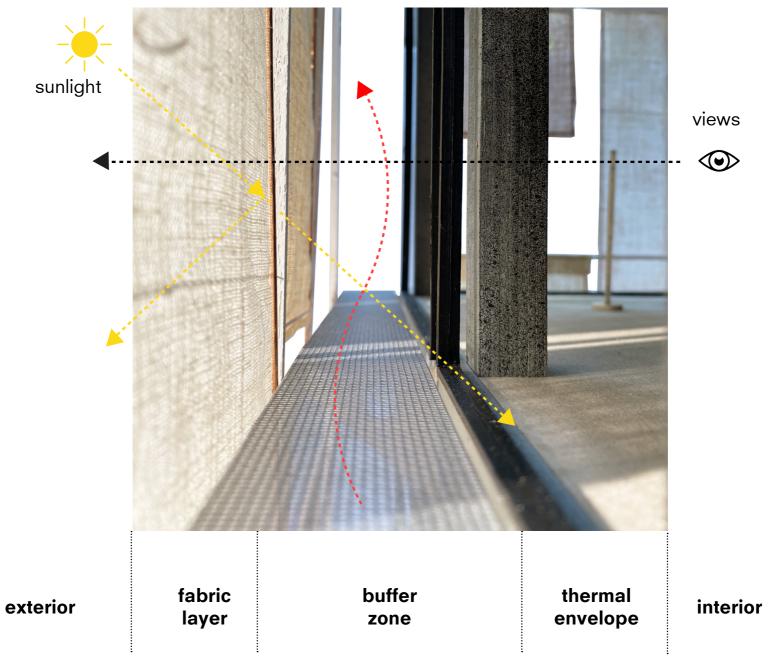




### **FLEXIBLE FACADE SYSTEM**



### **DETAIL FACADE**



# " BASE DUMMY "



# **SPRING COLLECTION**



# **SUMMER COLLECTION**



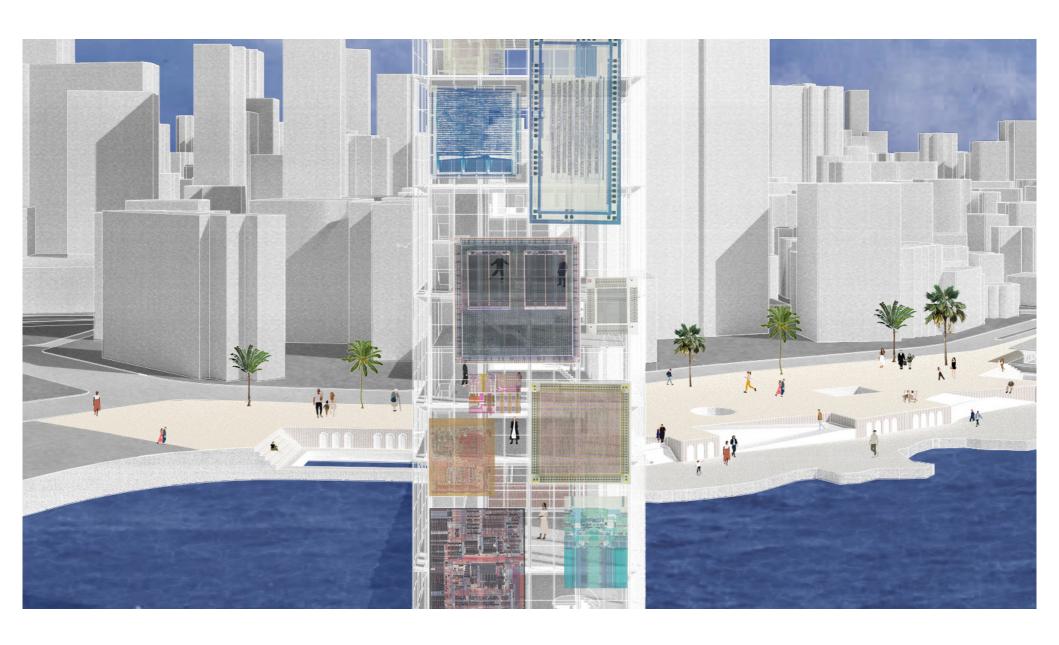
# **AUTUMN COLLECTION**



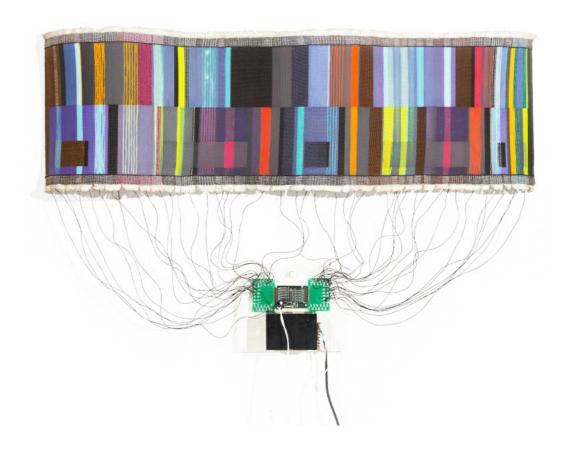
# WINTER COLLECTION



# **SMART TEXTILES**

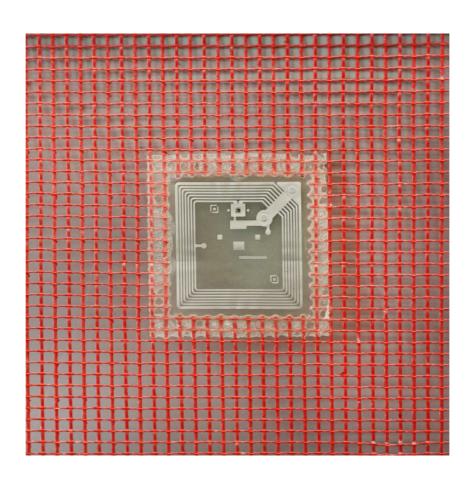


### **SMART TEXTILES**

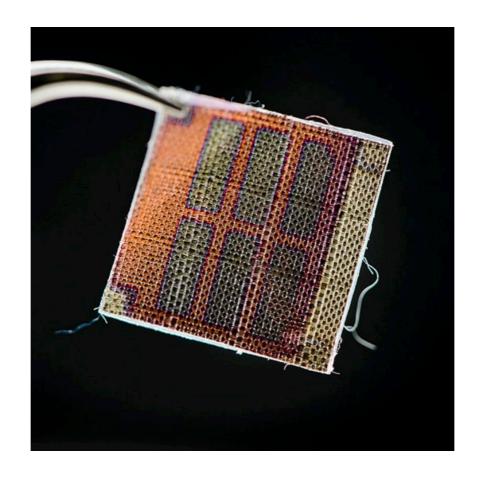


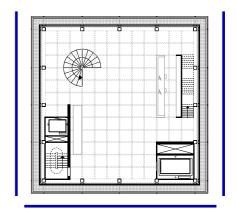
#### 04 design concept

## **DATA HARVESTING**



# **ENERGY HARVESTING**





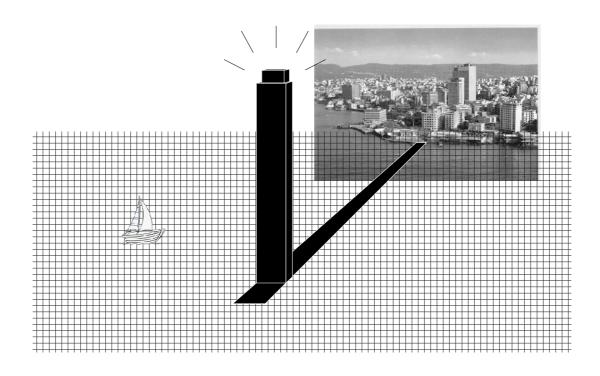


# **LED LIGHTS**

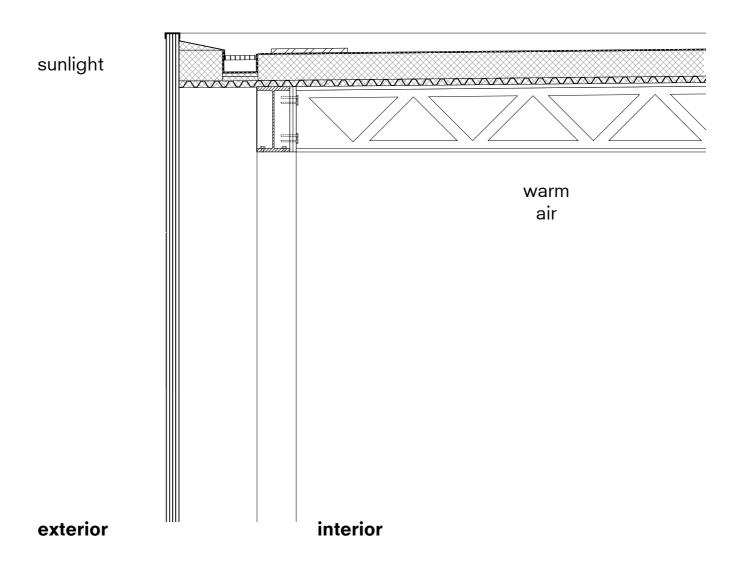


### 04 design concept

# LIGHTHOUSE CONCEPT



## **DETAIL TOP-UP**





# **TOWER AS A LIGHTHOUSE**





The project reflects a speculative design that examines the extent to which an architectural intervention is able to represent **HOPE** through...

#### 05 conclusion

# ...the perception of WASTE AS A RESOURCE for the LEBANESE TEXTILE INDUSTRY.

#### 05 conclusion

...the perception of **WASTE AS A RESOURCE** for the **LEBANESE TEXTILE INDUSTRY**.

...an urban **NODE** for Beirut's city center that promotes a new **POTENTIAL FOR CHANGE**.

#### 05 conclusion

...the perception of WASTE AS A RESOURCE for the LEBANESE TEXTILE INDUSTRY.

...an urban **NODE** for Beirut's city center that promotes a new **POTENTIAL FOR CHANGE**.

...an inspiration for **INNOVATIVE** and **PROGRESSIVE** thinking within industrial fields.

...the perception of WASTE AS A RESOURCE for the LEBANESE TEXTILE INDUSTRY.

...an urban **NODE** for Beirut's city center that promotes a new **POTENTIAL FOR CHANGE**.

...an inspiration for **INNOVATIVE** and **PROGRESSIVE** thinking within industrial fields.

... the concept of **TEMPORALITY** and **FLEXIBILITY** to act as an exemplary intervention for future projects in Beirut.

