

REBUILDING ALEPPOARCHITECTURE OF RECOVERY IN A WAR-TORN CITY

P5 CONTENT

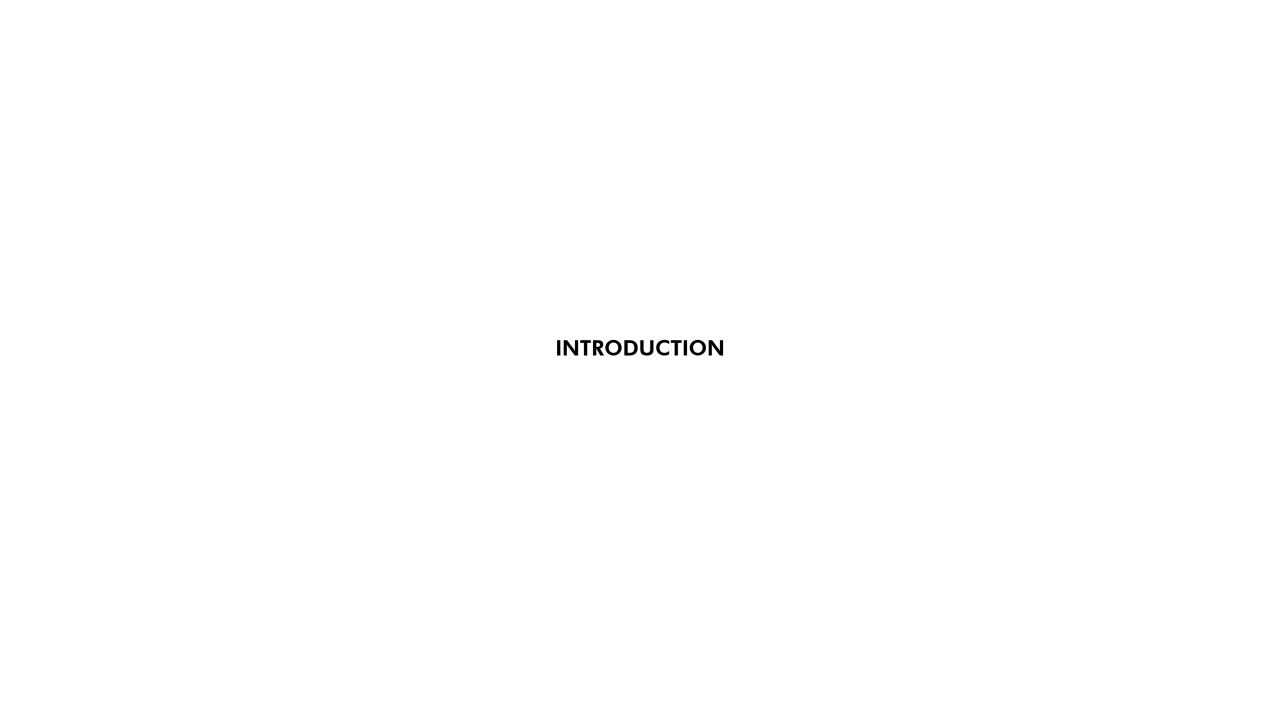
INTRODUCTION

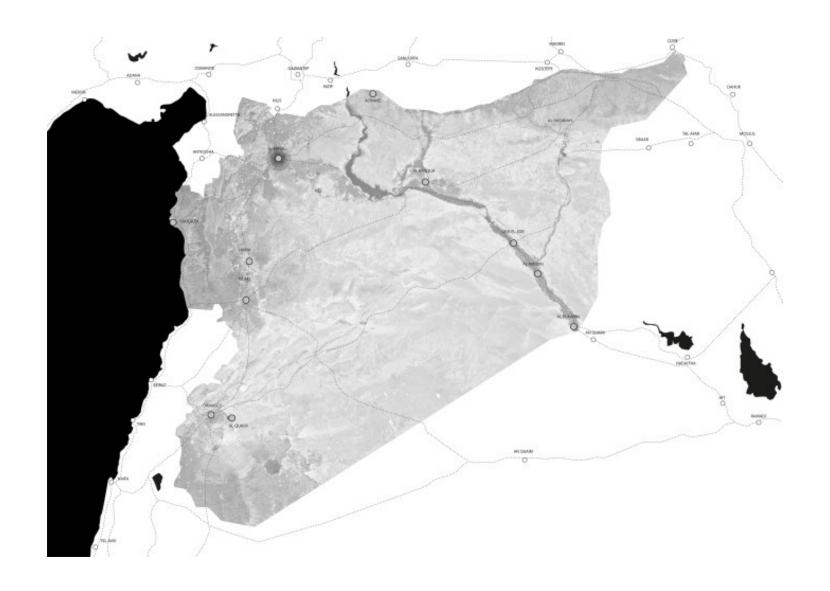
RESEARCH FINDINGS

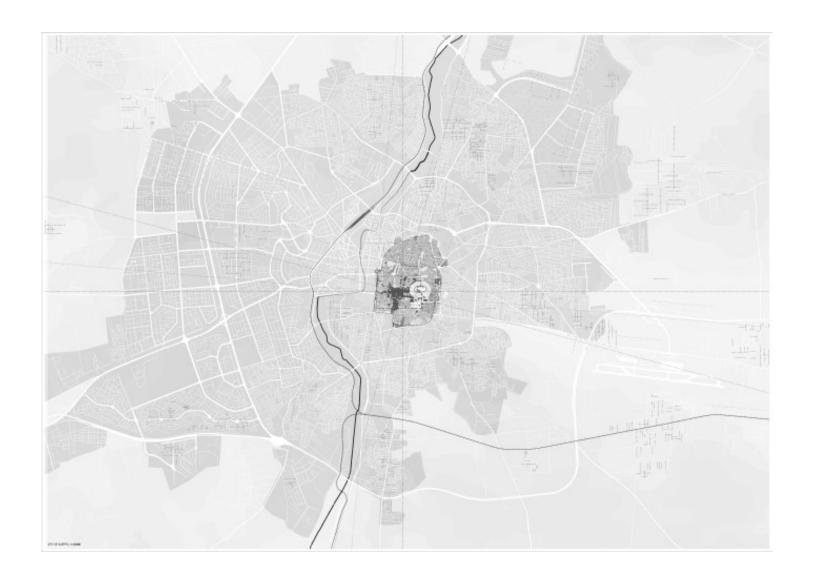
SITE

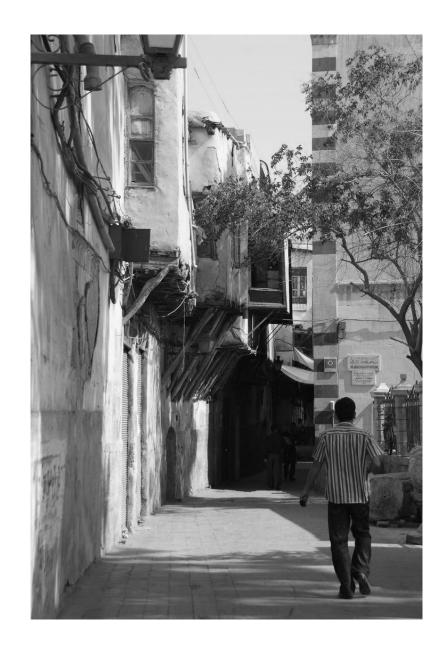
DESIGN

RESEARCH-DESIGN REFLECTING THROUGHOUT PRESENTATION









FASCINATION

GRADUATION TOPIC

post-war reconstruction

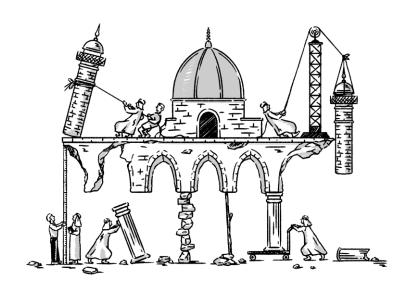
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merely constructing new buildings on top of where the destroyed ones lay

'That is not Syrian architecture'

'We don't want that'

Locals on very modern 'glassy' design renders for a neighbourhood in Damascus





URBAN IDENTITY

POST-WAR RECONSTRUCTION

How can Aleppo's urban identity be preserved in post-war reconstruction, particularly in the design of public spaces?

'How can Aleppo's **urban identity** be **preserved** in **post-war reconstruction**, particularly in the **design** of **public spaces**?'

URBAN IDENTITY

GENIUS LOCI



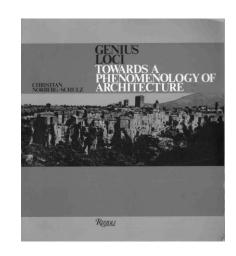


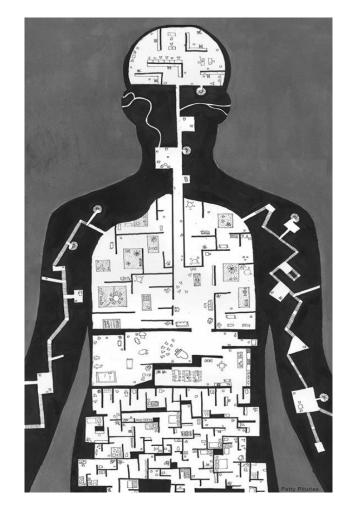




'The spirit of a place'

every location has its own unique essence, character, and identity, shaped by a combination of natural, architectural, historical, and cultural factors.



















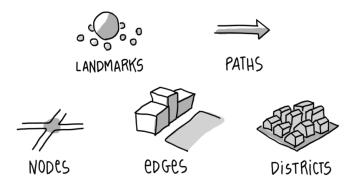
SITE ANALYSIS

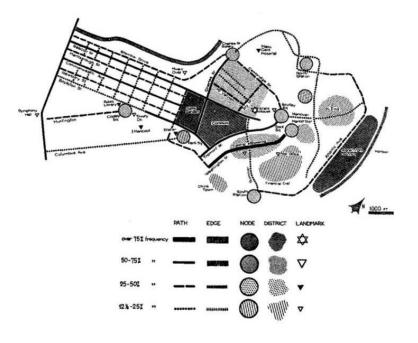
THE KEVIN LYNCH MAP

'The image of the city is a combination of physical reality and mental organization.

The physical arrangement of a city has a profound impact on how we perceive and navigate through it.'

KEVIN LYNCH



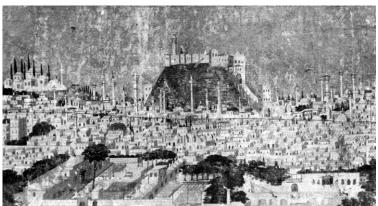


Which elements define Aleppo's urban identity?



URBAN GENIUS LOCI

The element of the path in the Old City of Aleppo comes in the form of a labyrinthine-like street network with organic patterns. The dense urban fabric has lots of narrow alleyways. In Aleppo, landmarks such as the serve as both practical waypoints and cultural key points.



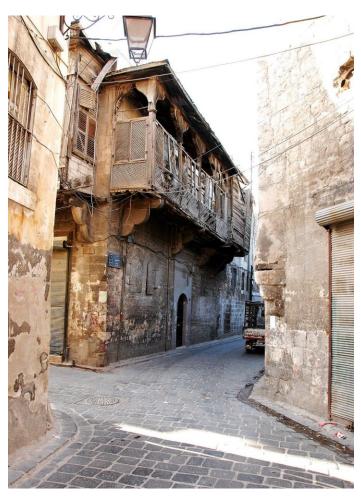
MATERIALITY AND DETAIL

The Aleppine limestone's warm tones help in reflecting sunlight. Its durability and insulating qualities fit the local climate as well. Craftsmanship of the Old City of Aleppo's architecture can be seen in the detailed stone carvings and ornamentation that are for example on facades, arches, and doorways. These elements often have geometric patterns, arabesques, and floral motifs, which shows the artistic traditions and technical skills that were passed down through generations, mostly from the Ayyubid rule to the Mamluk rule.









THE MASHRABIYA WINDOW

The mashrabiya is a traditional architectural feature that can be found in many of Aleppo's historic buildings, particularly in the Old City and its traditional courtyard houses. It is a wooden lattice window or sometimes comes in the form of a balcony, often enclosed and projecting from the façade, which has both a functional and aesthetic purposes.

In Aleppo, mashrabiyas were commonly seen in Ottomanera houses they played an important role in climate control, privacy, and social customs. The wooden screens allow for natural ventilation, helping cool interiors during the hot summers by allowing airflow while keeping the sun out. They also provide privacy, particularly for women in traditional households, allowing them to observe the street without being seen.

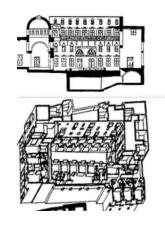
COURTYARD TYPOLOGIES

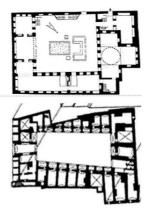


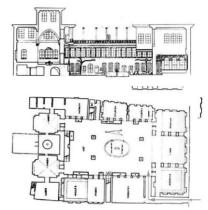
Courtyard houses, an integral part of Aleppo's residential urban fabric, especially in the Old City are designed with a balance of privacy and communal living while addressing the climatic needs of the region. These houses are typically inward-facing, with rooms organized around a central courtyard. The courtyards often include elements such as a fountain, trees, or seating areas, creating microclimates that help regulate temperature in the hot environment.



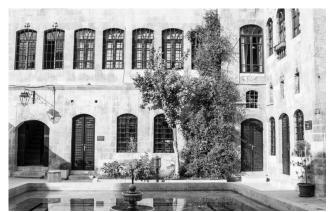










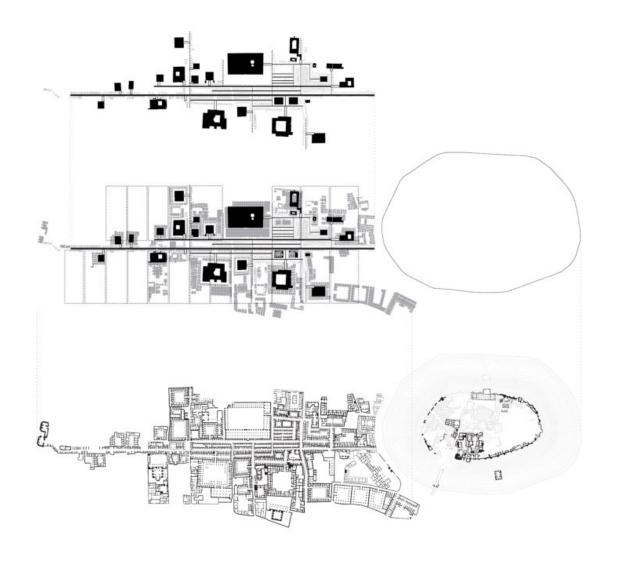




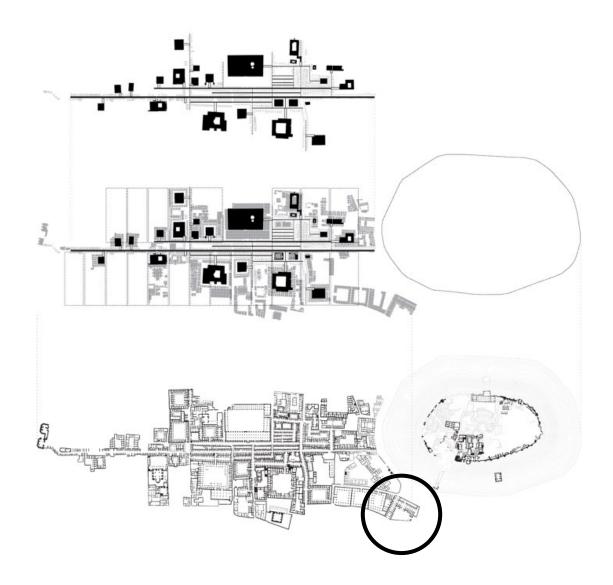


PUBLIC SPACES AND SPATIAL ORGANIZATION

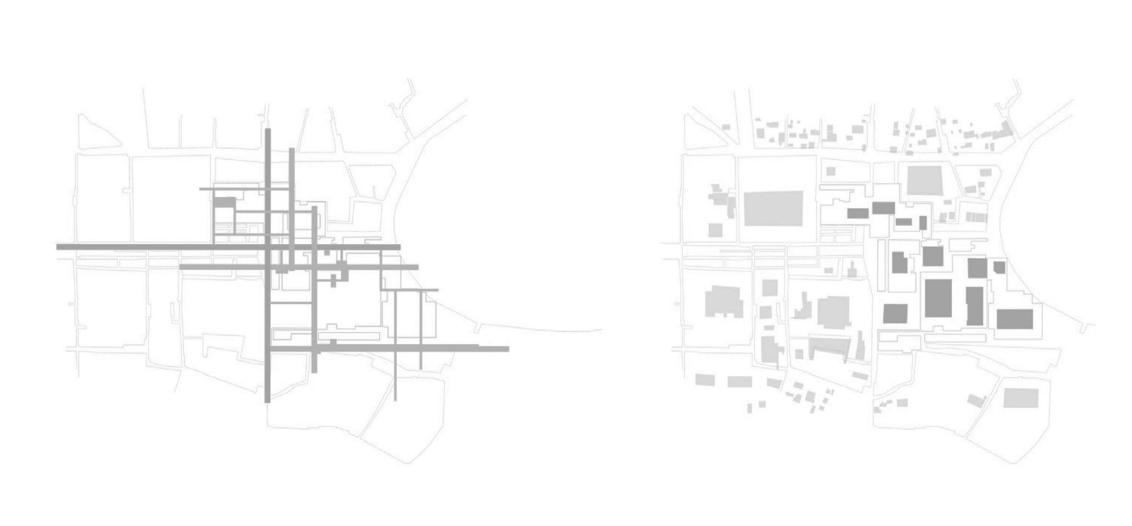
Aleppo's urban fabric is characterized by a dense network of organic, narrow streets, particularly in the Old City. This spatial organization promotes human interactions and provides natural shading, which reflects the city's adaptation to its environment. Traditional neighborhoods (haras) were organized around communal or public spaces, such as mosques or small markets, which also encourages a strong sense of community. Al-Madina Souk, one of the world's largest covered markets, connects to various districts as well and leads to landmarks such as the Citadel



SOUK STRUCTURE BY FLAVIO M.



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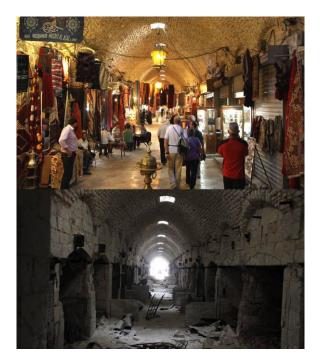


CONTINUING ALEPPO'S TYOLOGIES LINEAR SOUK STRUCTURE & COURTYARDS

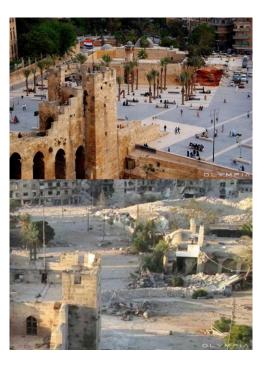
How has the war impacted the site's urban fabric?











Tourism activity (half of pre-crisis employment) had **stopped**

The destruction and looting of the souq, the degrading condition of the archeology, and the lack of trade threatened future recovery

Remaining population during the war were almost totally **jobless**

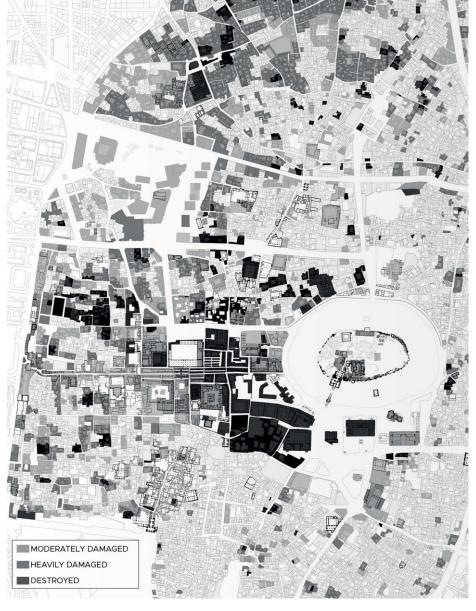
Many of the **school buildings** in the area have been damaged. This is important as the university of Aleppo is the second biggest of Syria, having around **60.000** students

More than a 100 cultural buildings (houses, mosques, churches, Khans, markets and monuments) have been reported as damaged

Shops had gotten **burned** or **looted**, and most of the city services and infrastructure got damaged

In total, almost 80% of the old city population had fled from the center





WAR DESTRUCTION ON A TERRITORIAL AND URBAN SCALE BY CHIZZONITI, D.



Stated from the article Ancient handicrafts about to vanish in Syria's Aleppo (North Press Agency, 2021):

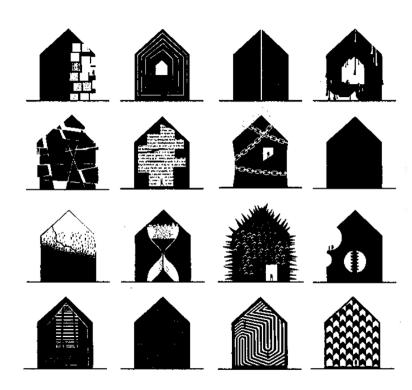
'The retired teacher from the ancient city of Aleppo Mansour Qabbani believed that it is not only the war that affected the city, but also the government negligence and policies.

The government is not concerned about reviving and supporting handicrafts and so far they have neither rehabilitated workshops nor serviced the ancient markets. Moreover, there is no supportive program for craftsmen in order to encourage them to back to their professions, according to Qabbani.'

"Pre-war time, when we were walking inside these markets, we saw fathers teaching their sons about work secrets and skills, but unfortunately, most of the handicrafts were lost and some others are about to vanish," Qabbani recalled.

"Heritage and handicrafts of Aleppo should be revived because they are not only a civilizational legacy of its people but also a humanitarian one," he added.' Which role can public architecture play in preserving Aleppo's cultural memory and supporting community recovery during times of political instability?

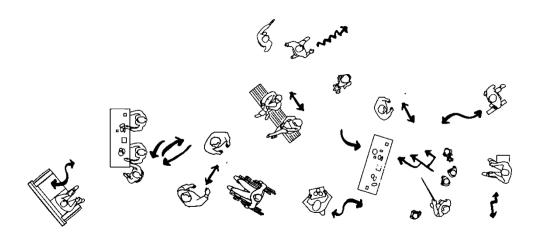
PRESERVING CULTURAL MEMORY THROUGH PUBLIC ARCHITECTURE



PUBLIC ARCHITECTURE AS A SPACE FOR COLLECTIVE HEALING

Public buildings can, especially in a city that has been divided by war, serve as spaces for healing. Spaces with functions such as schools, community centers, sougs, or cultural institutions can be designed to bring people together and strengthen the unity. Public architecture can include for example memorials or exhibitions, which do acknowledge the city's war-experiences while emphasizing its resilience. An example of this is the Hiroshima Memorial Park. Such a space provides opportunity for reflection and dialogue, which can help communities process their shared experiences.

SUPPORTING COMMUNITY RECOVERY THROUGH PUBLIC ARCHITECTURE



REBUILDING SOCIAL FABRIC

Public architecture plays an important role in rebuilding the social fabric of a city. Schools and libraries, for example, can serve as spaces for learning but also cultural preservation. Having cultural programs in these spaces, such as workshops or maybe history lectures, can strengthen sense of community and at the same time help younger generations reconnect with the city's history and traditions.

SUPPORTING COMMUNITY RECOVERY THROUGH PUBLIC ARCHITECTURE



PUBLIC ARCHITECTURE AS SOCIAL AND ECONOMIC HUBS

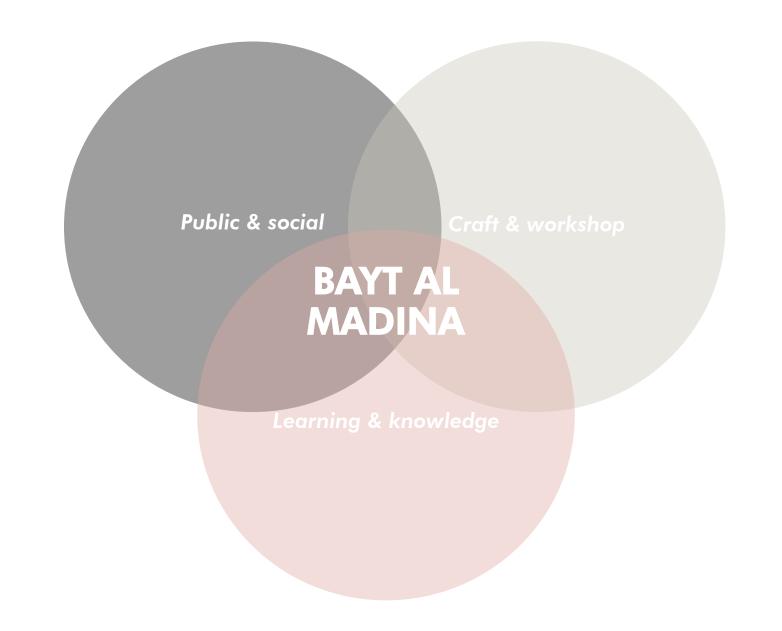
Markets, cultural institutions, and other public buildings can act as important places for both economic recovery and social cohesion. For example, the rebuilding a souq like the Al-Madina Souk (which is already taken place!) would not only restore an important part of Aleppo's identity but would also provide economic opportunities for the local artisans, traders, and small businesses.

AN INTERSECTION POINT



DESIGN

Bayt al Madina, بيت المدينة



Why a knowledge/learning/workshop/craft hub?

What makes it ideal for Aleppo and suitable in the context of the site?

Revives traditional crafts and skills

Aleppo has historically been a center of knowledge, trade, and craftsmanship, making this kind of hub a continuation of its historical role

This is not an imported concept, like a Western-style cultural center, but it's rooted in Aleppo's identity as a city of learning

Provides neutral spaces for learning and gathering

It focuses on education and skills applicable to all, avoids religious, political functions that might provoke tensions - a unifying space, fostering community interaction Addressing post-war needs: economic and knowledge-based recovery

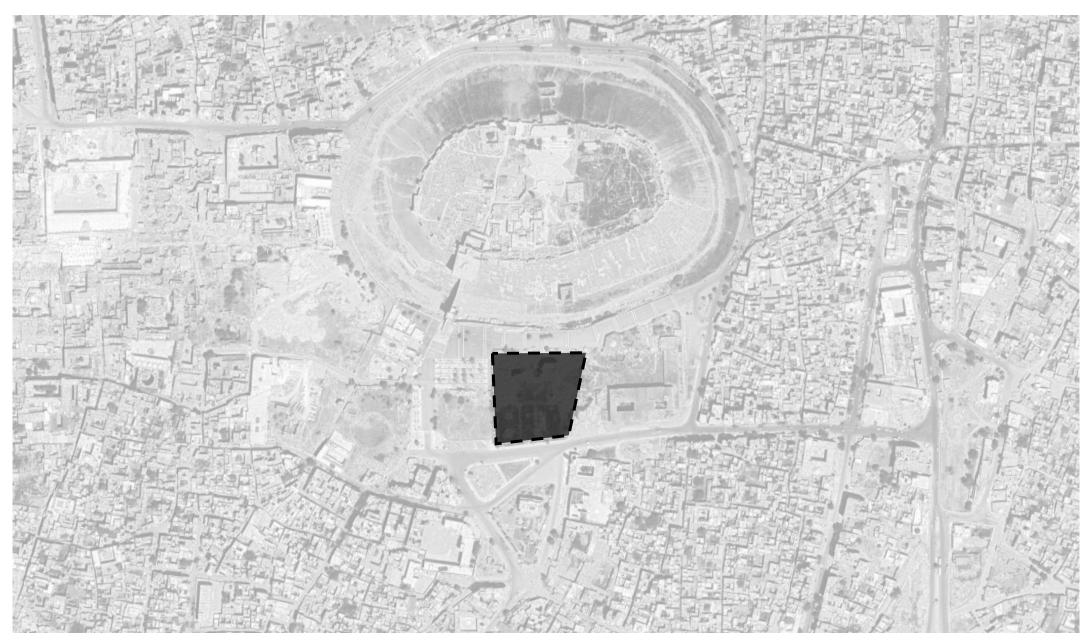
Honors Aleppo's heritage by reinterpreting its historic functions (Grand Serail) into a public, multi-functional design

Fills gaps left by destroyed educational and cultural institutions while avoiding repetition with souqs or purely civic buildings.

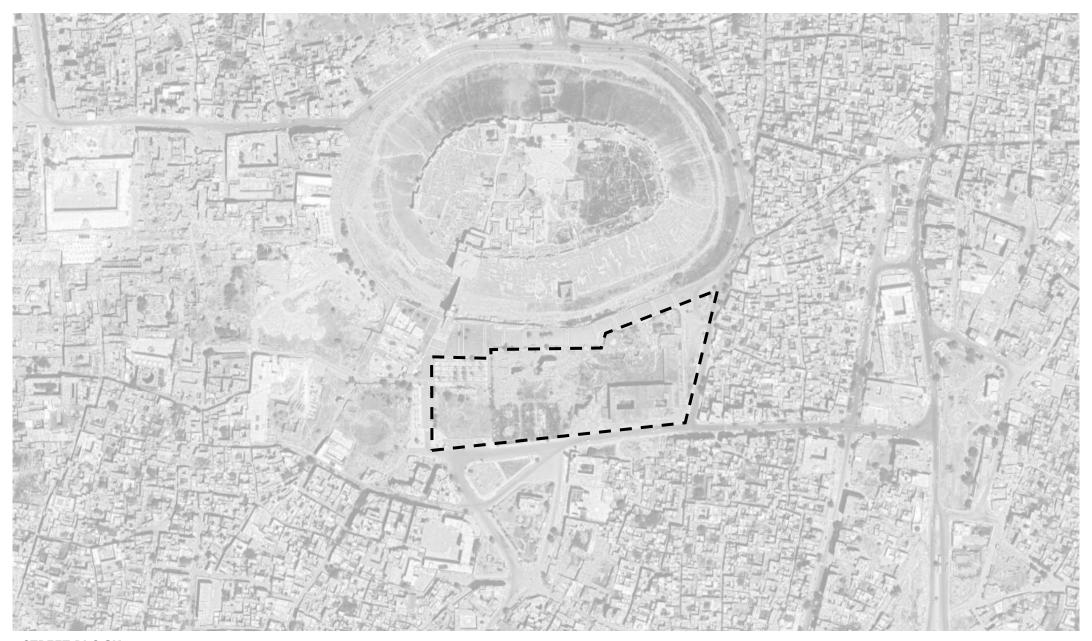
The building can serve as a hybrid, multifunctional design

It compliments the Citadel, a symbol of Aleppo's resilience, by focusing on the city's future resilience through education and community recovery

SITE















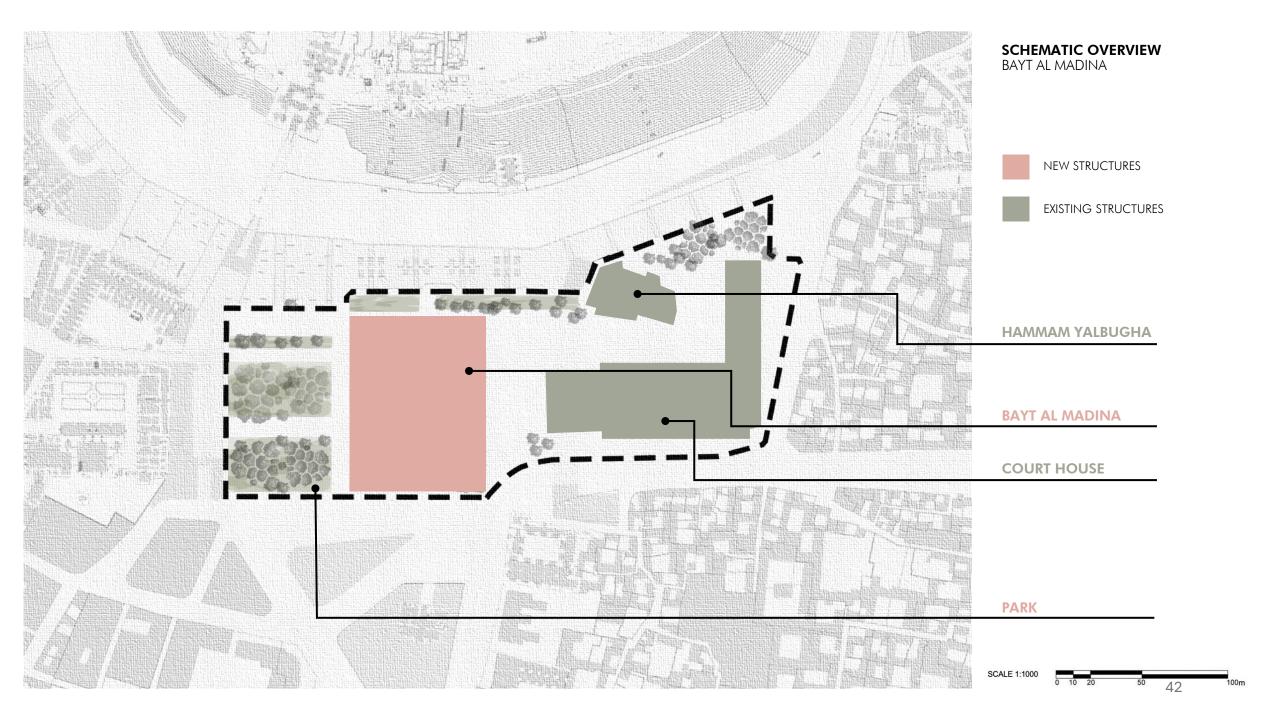
Hammam Yalbugha Sultaniyeh mosque

Other buildings from the street block



VIEW FROM CITADEL ON STREET BLOCK 2024

PLAN





GRAND SERAILBEFORE THE WAR

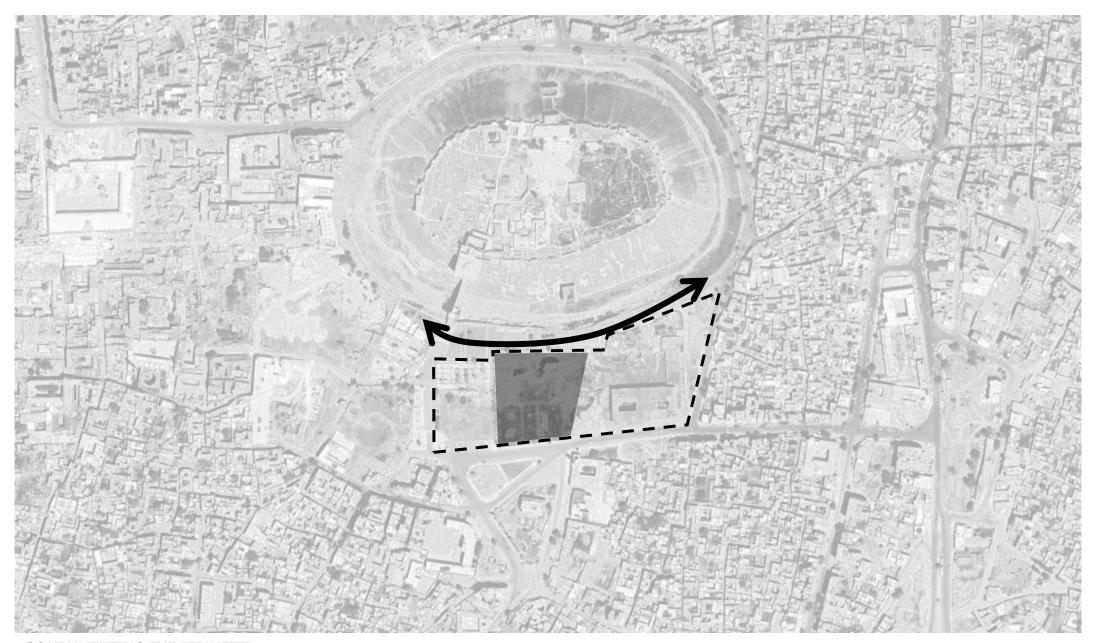


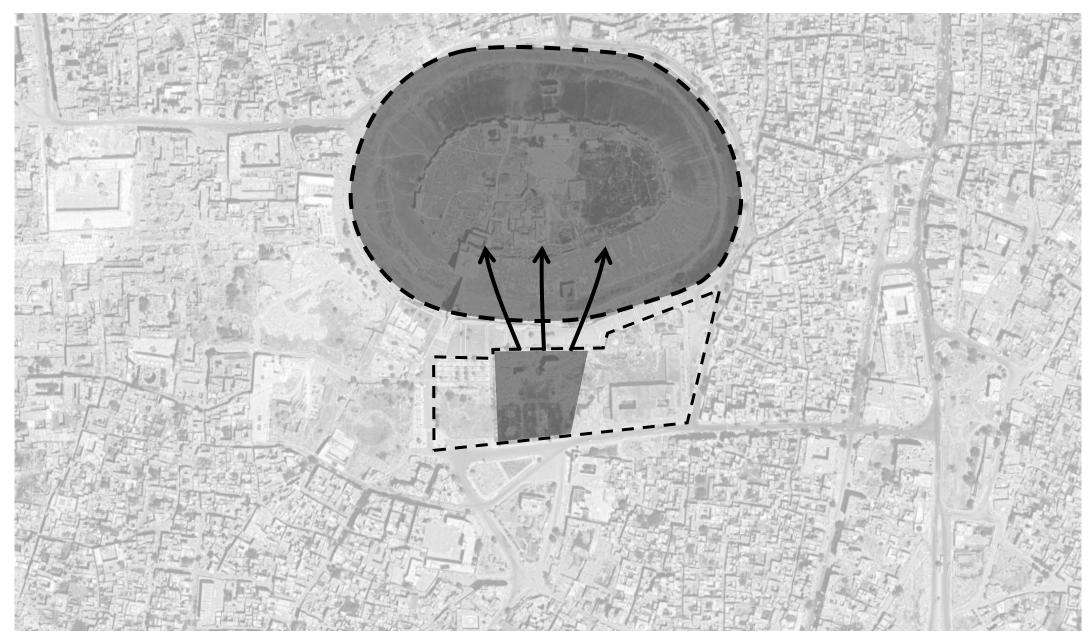


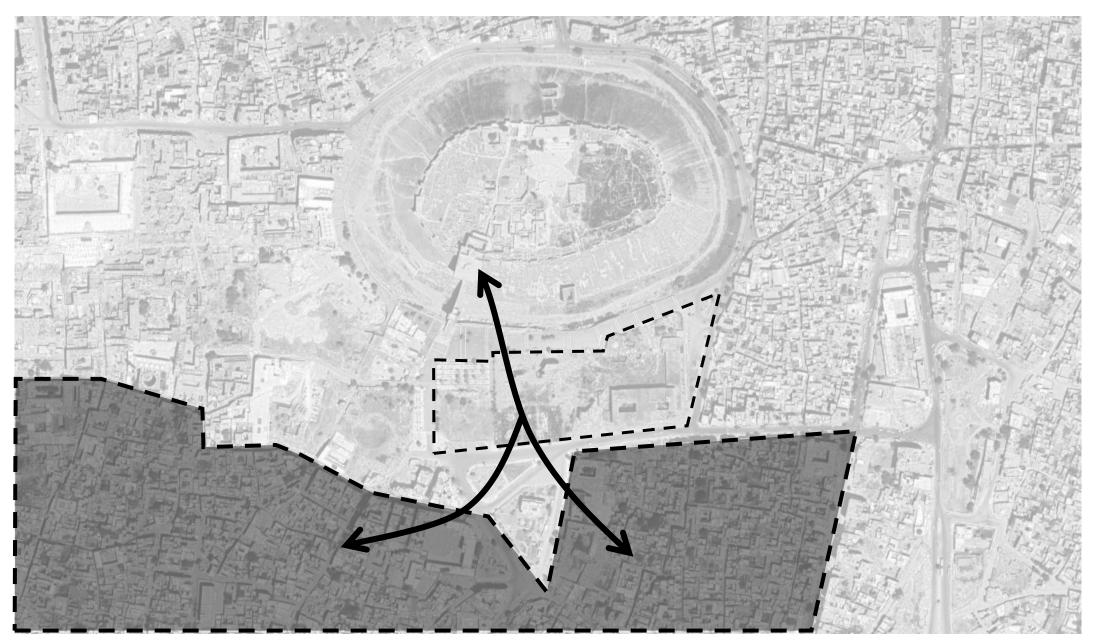




CITADEL PERIMETERBEFORE THE WAR

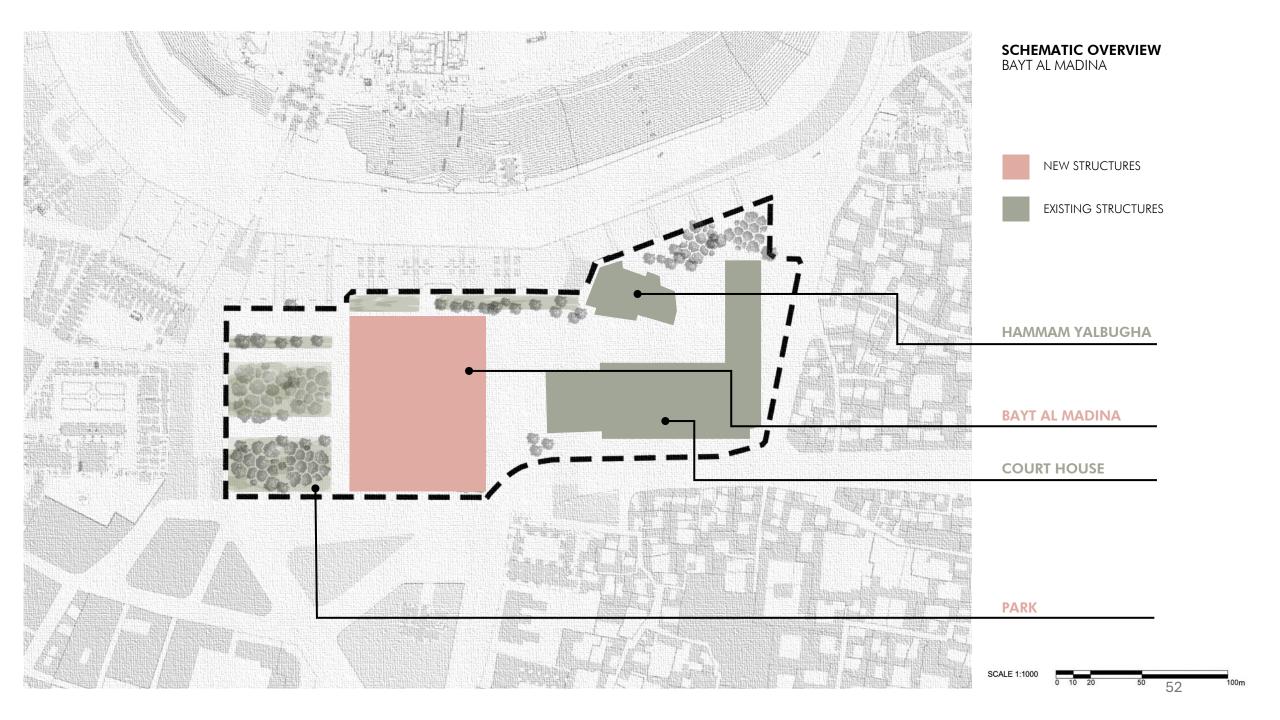


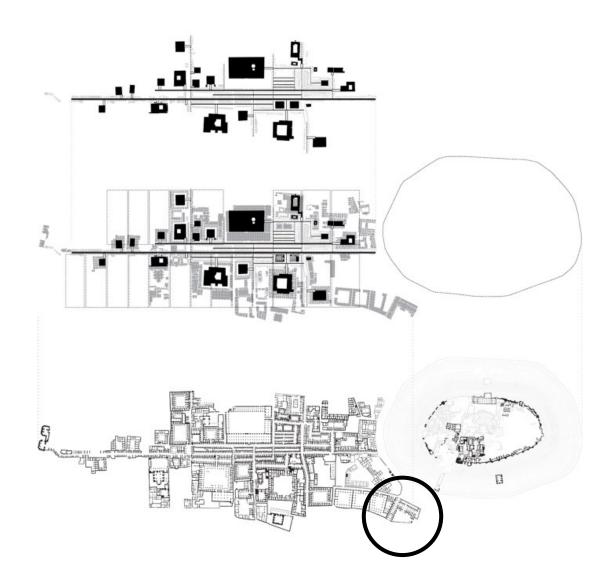






GRAND SERAILBEFORE THE WAR

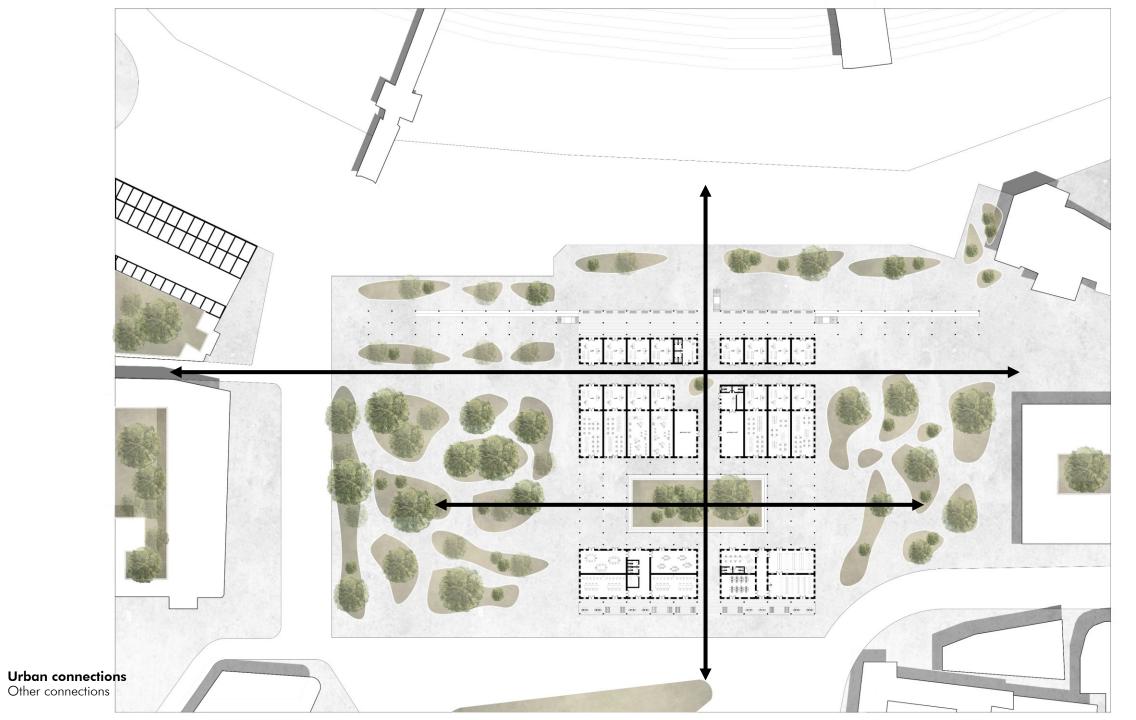


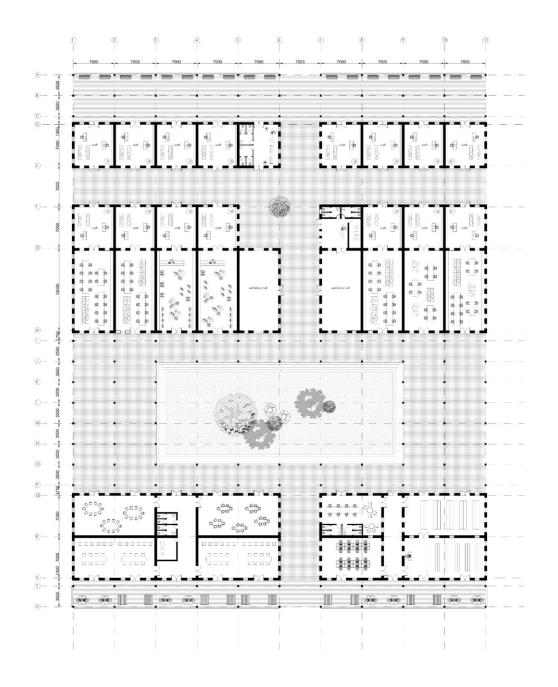


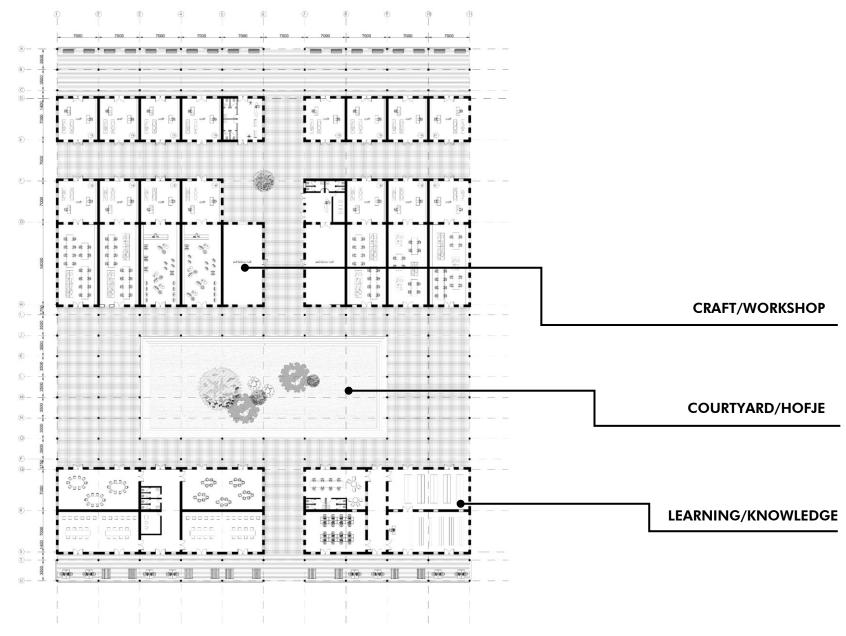
SOUK STRUCTURE BY FLAVIO M.

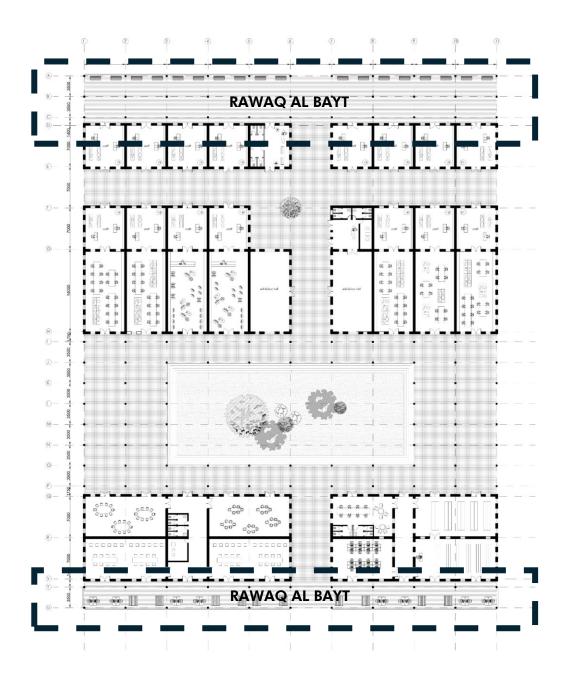


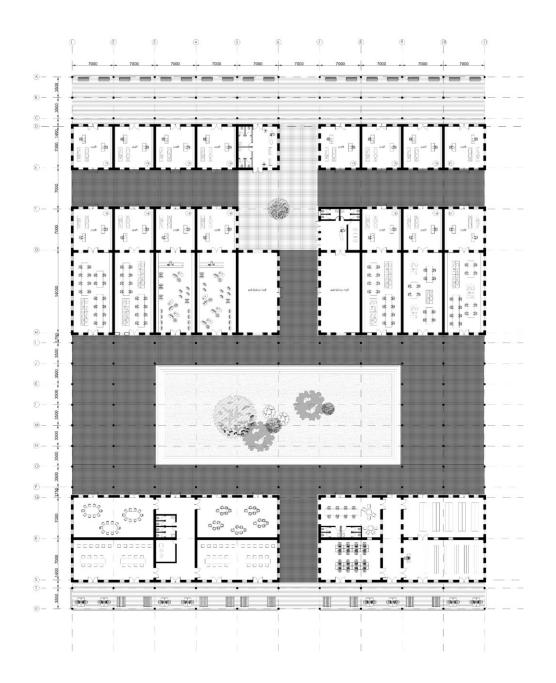








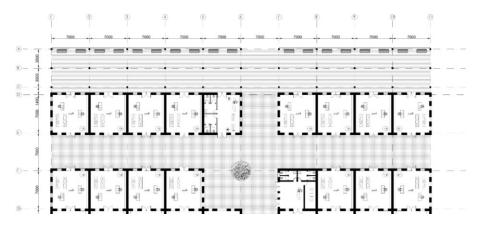


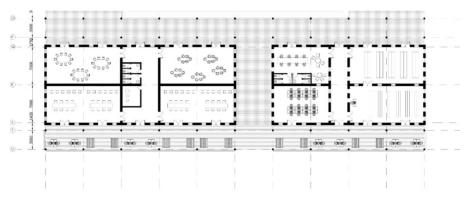


REFERENCE IMPRESSIONSRAWAQ AL BAYT PARTS



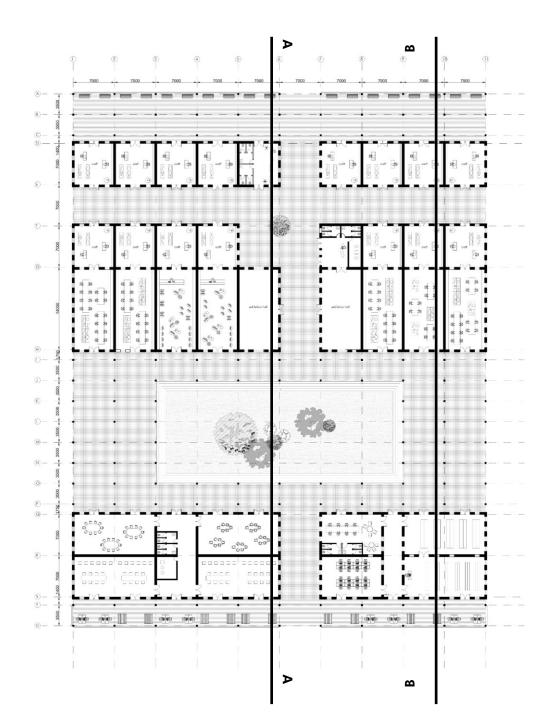






North side Rawaq al Bayt Workshop/craft zone

South side Rawaq al Bayt Learning/knowledge zone

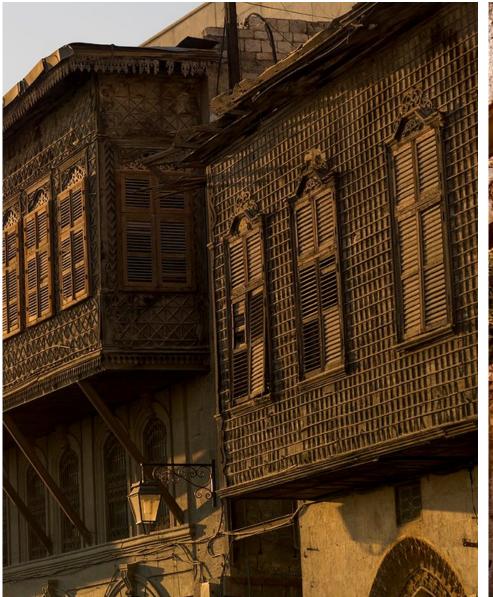


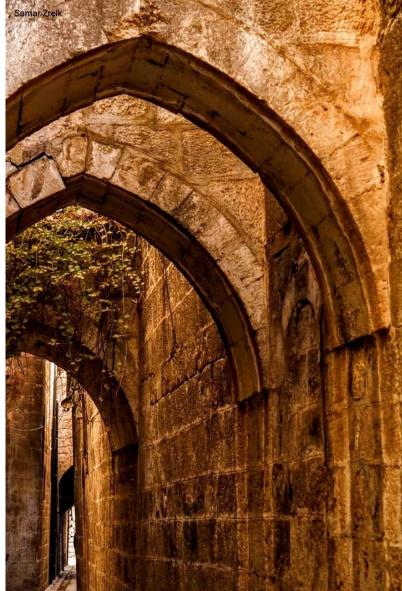
SECTION AABAYT AL MADINA



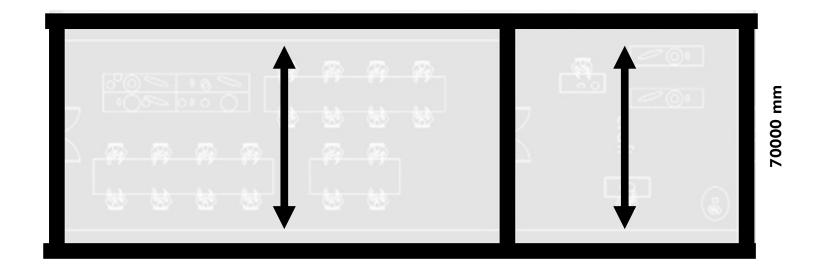
SECTION BB BAYT AL MADINA







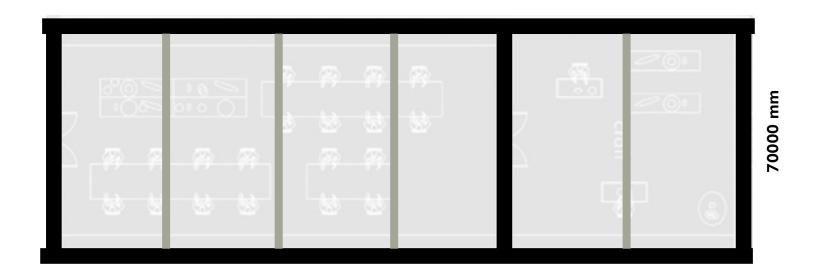
PRIMARY SPAN



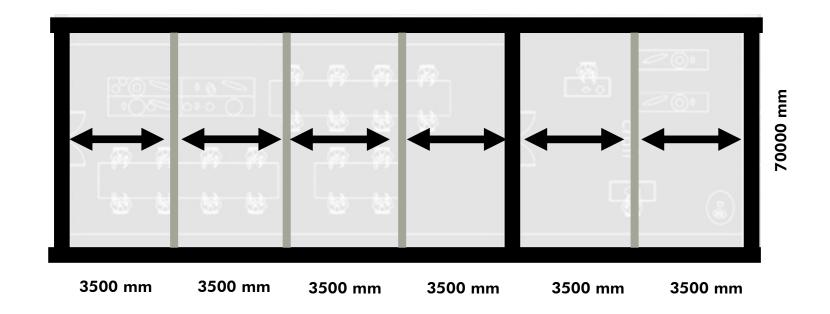
PRIMARY SPAN

Cross beams on limestone wall

15x40 cm – span 7000 mm



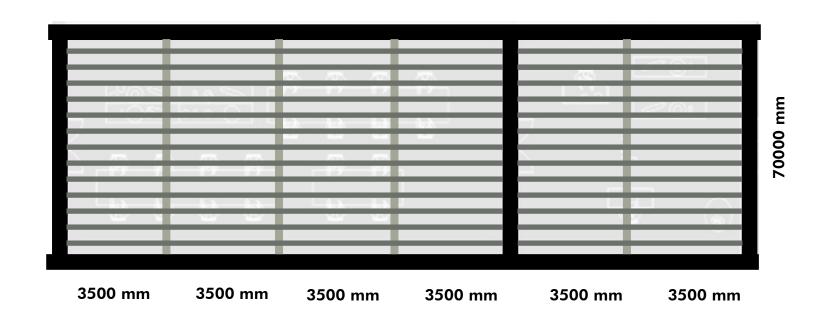
SECONDARY SPAN



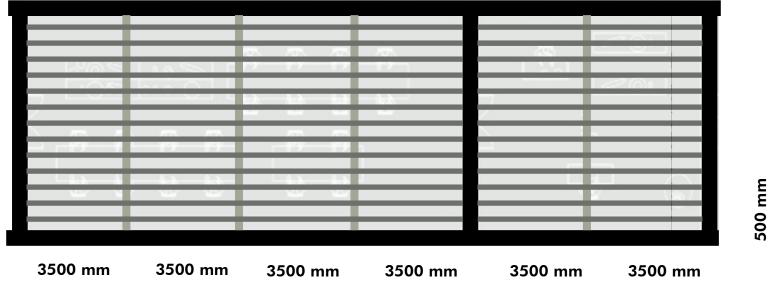
SECONDARY SPAN

Wooden beams on limestone wall and cross beams

7X20 cm – span 3500 mm

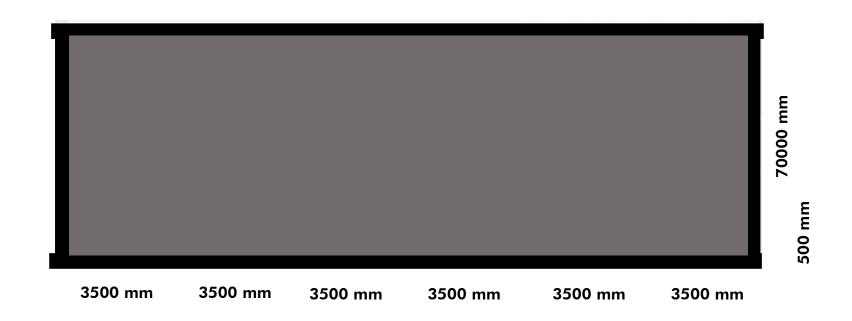


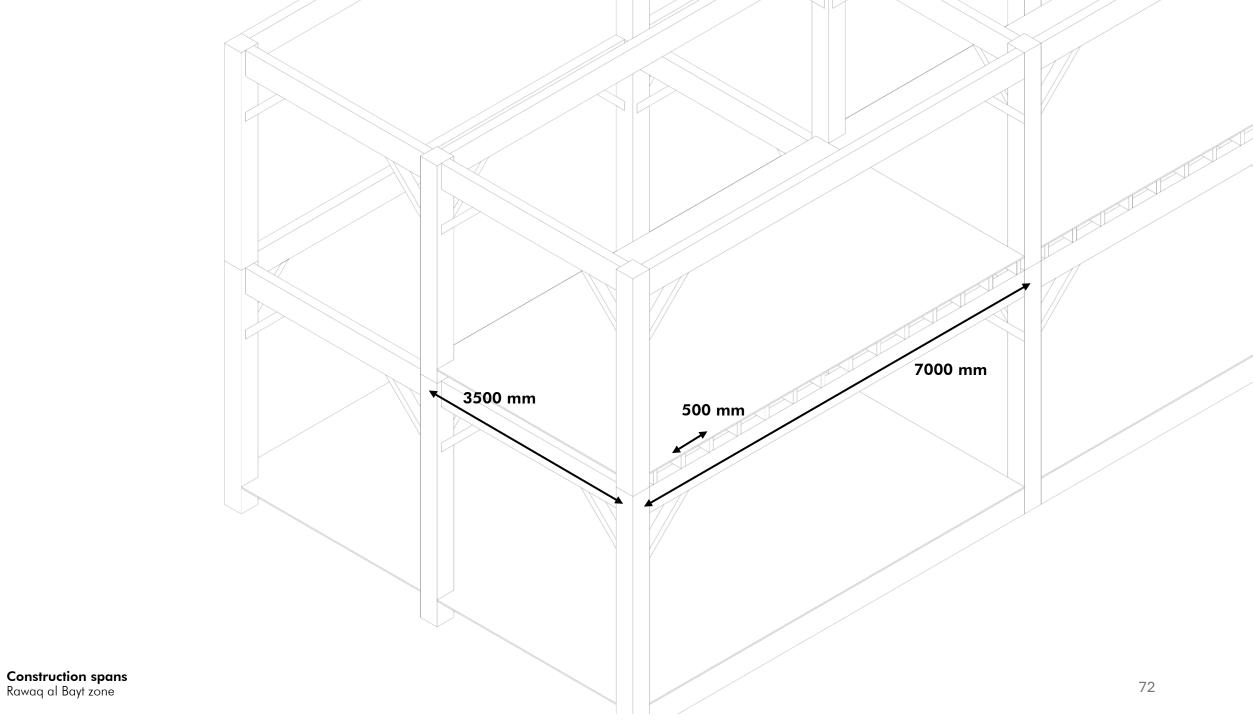
TERTIAIR SPAN

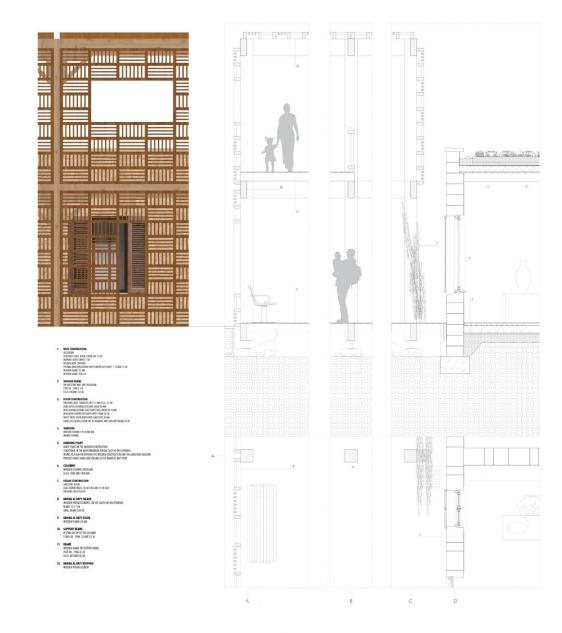


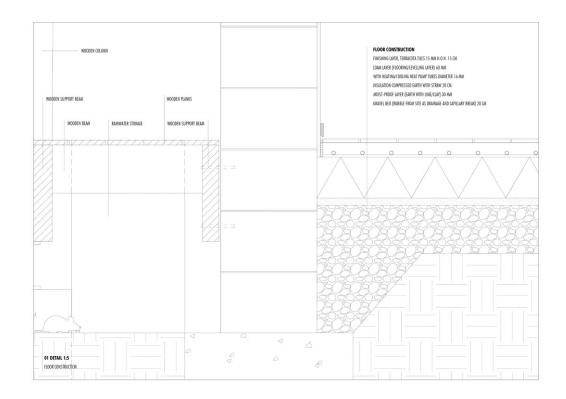
TERTIAIR SPAN

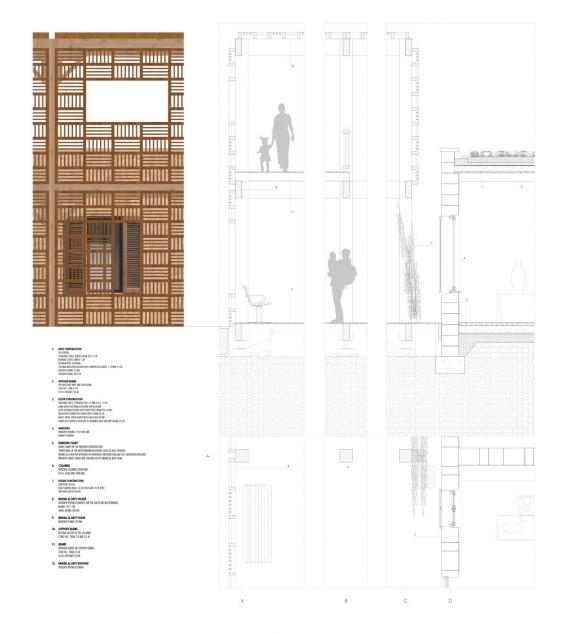
Wooden planks on beams, flooring span 500 mm

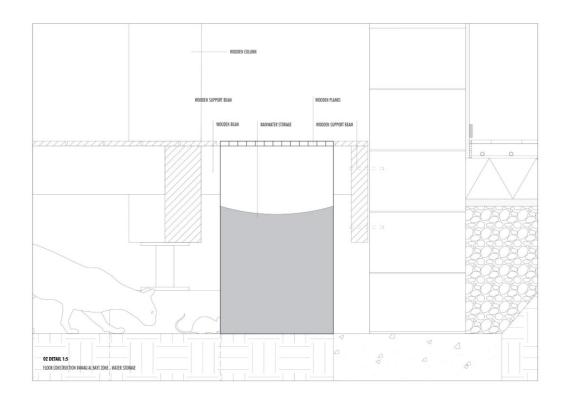


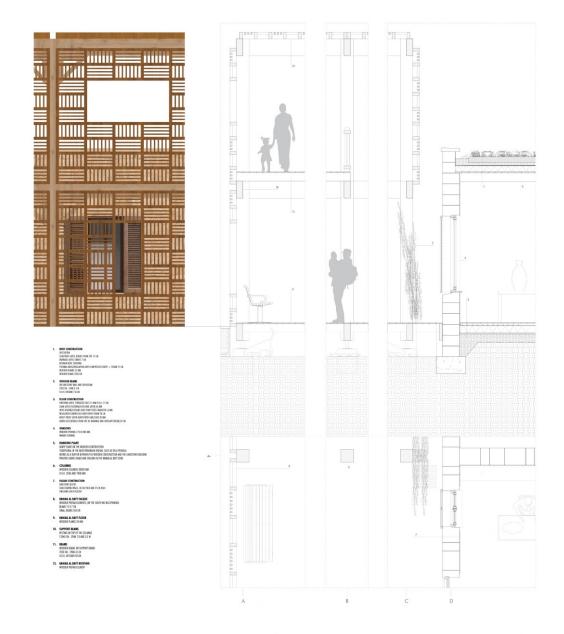


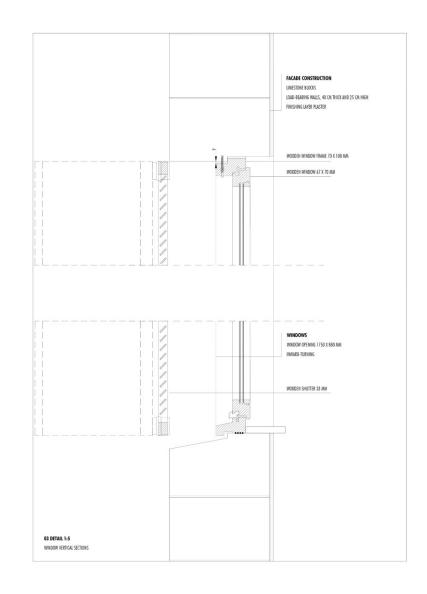


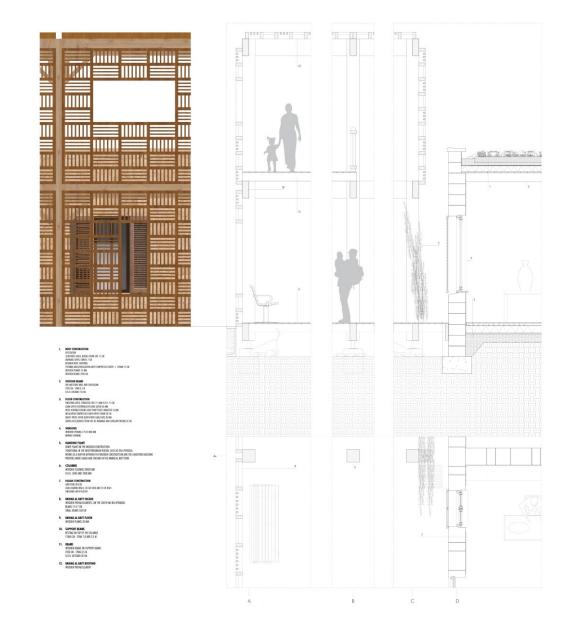


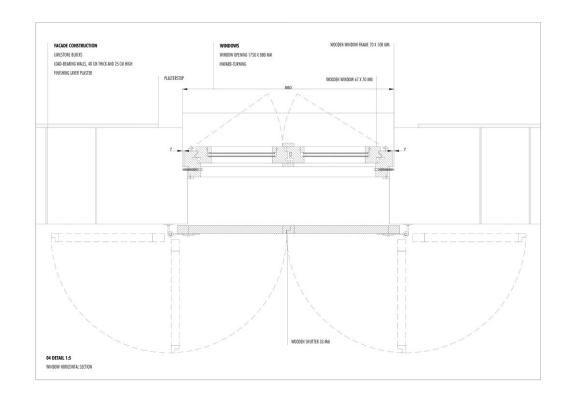


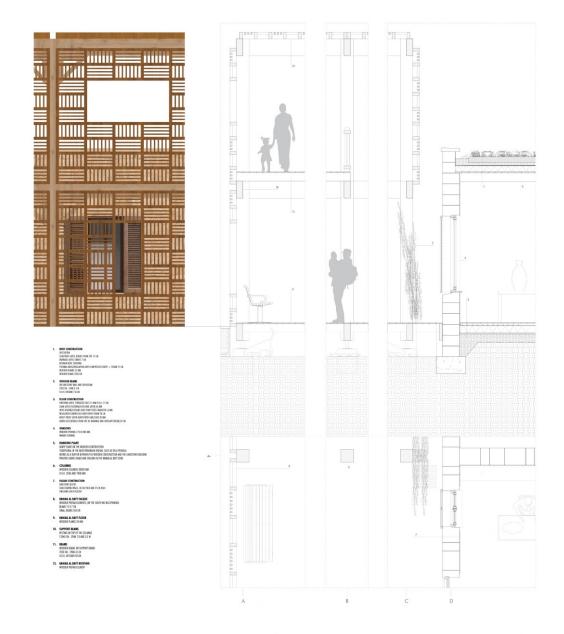


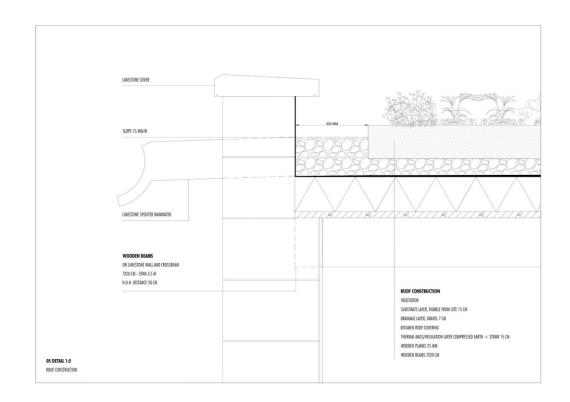


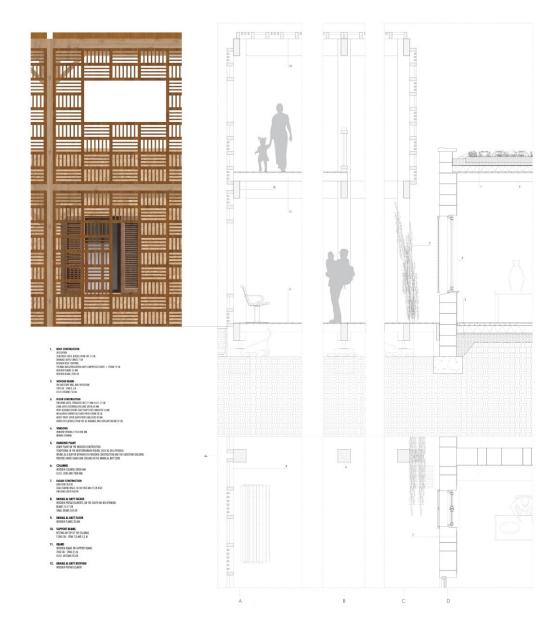








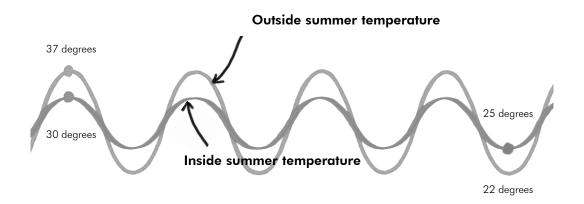


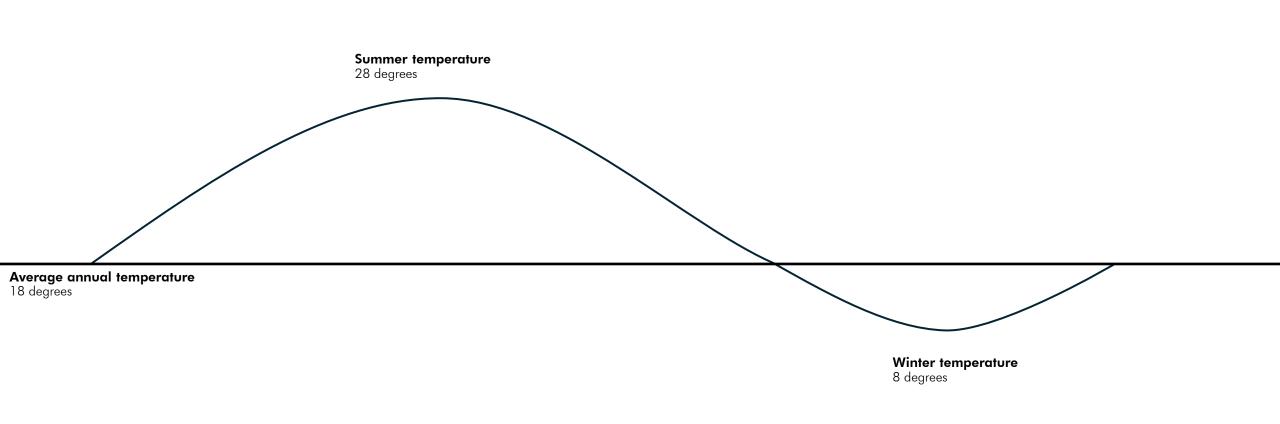


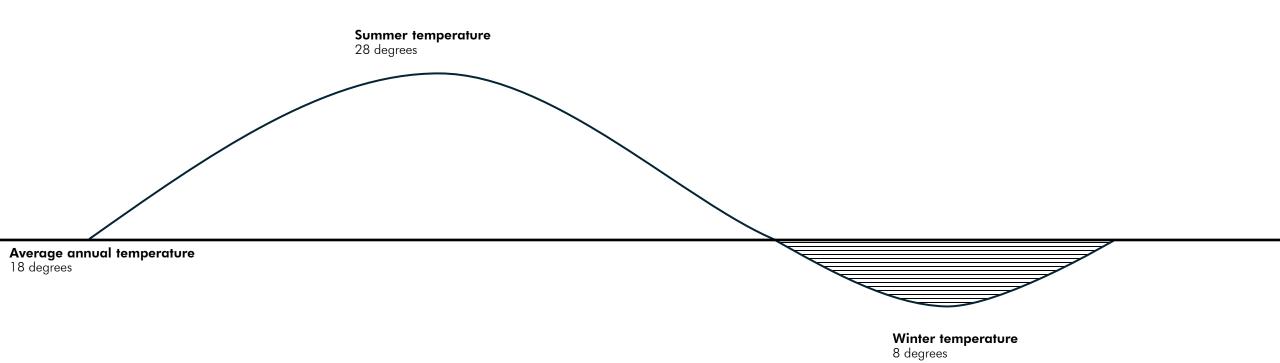


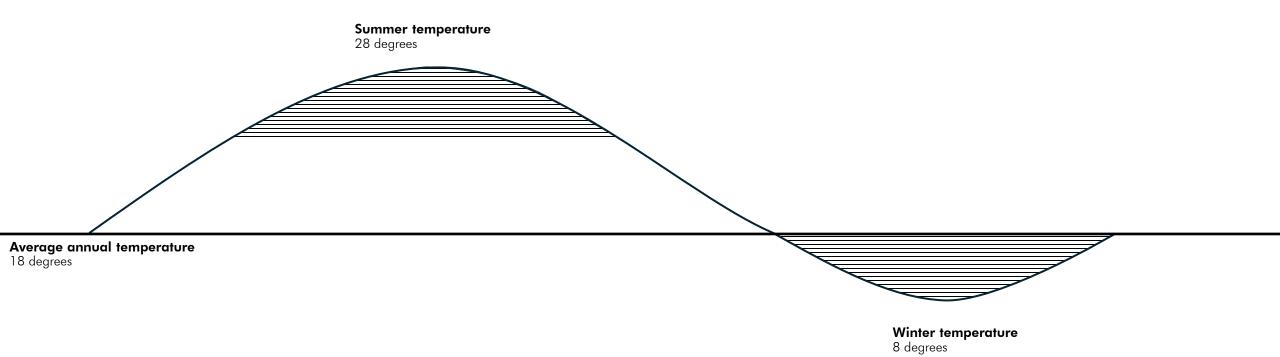
VIEW FROM CITADEL ON STREET BLOCK 2024

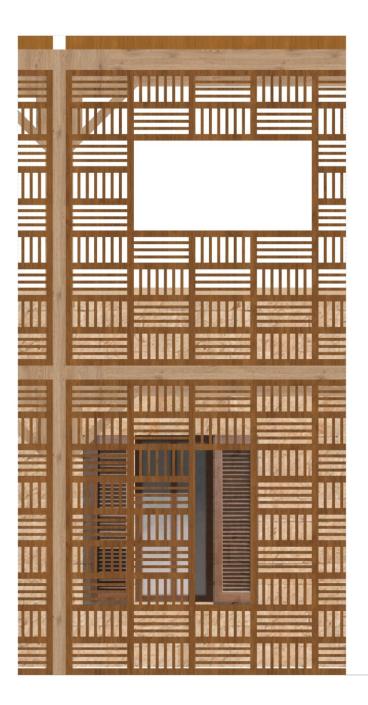
CLIMATE SECTION PRINCIPLES Brown roof Limestone has a high thermal mass Facade element filters sunlight natural ventilation and cross ventilation Vine plants ΗP Manual rainwater storage Cooling/heating, geothermal

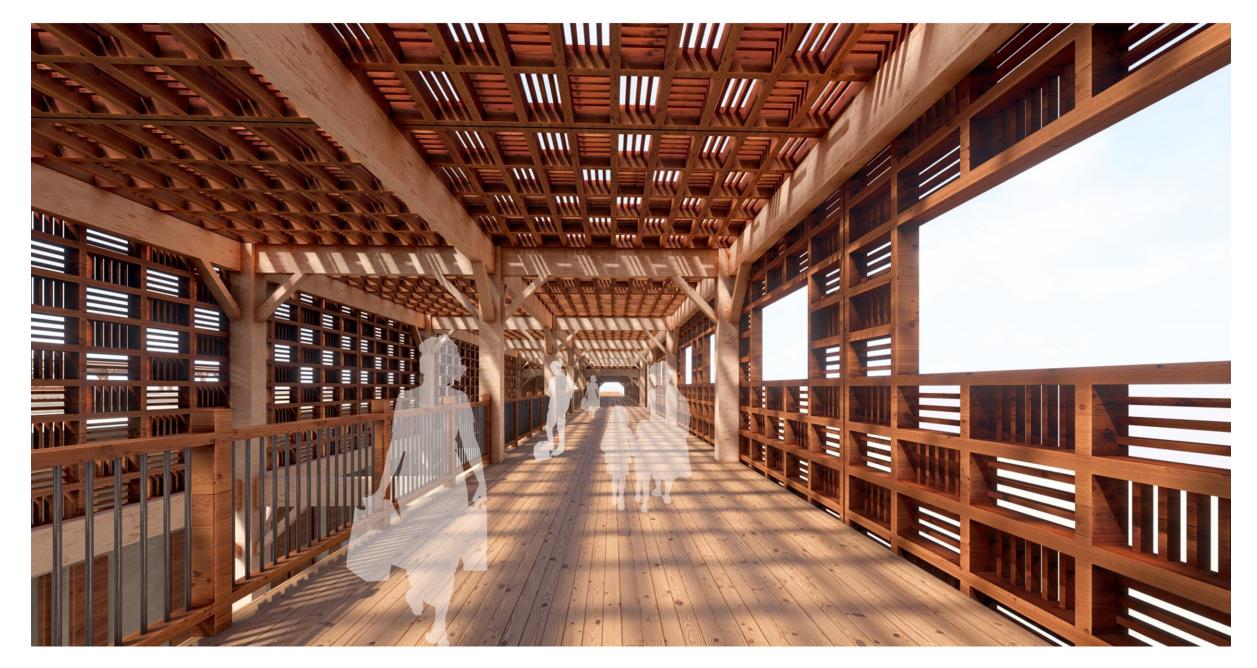


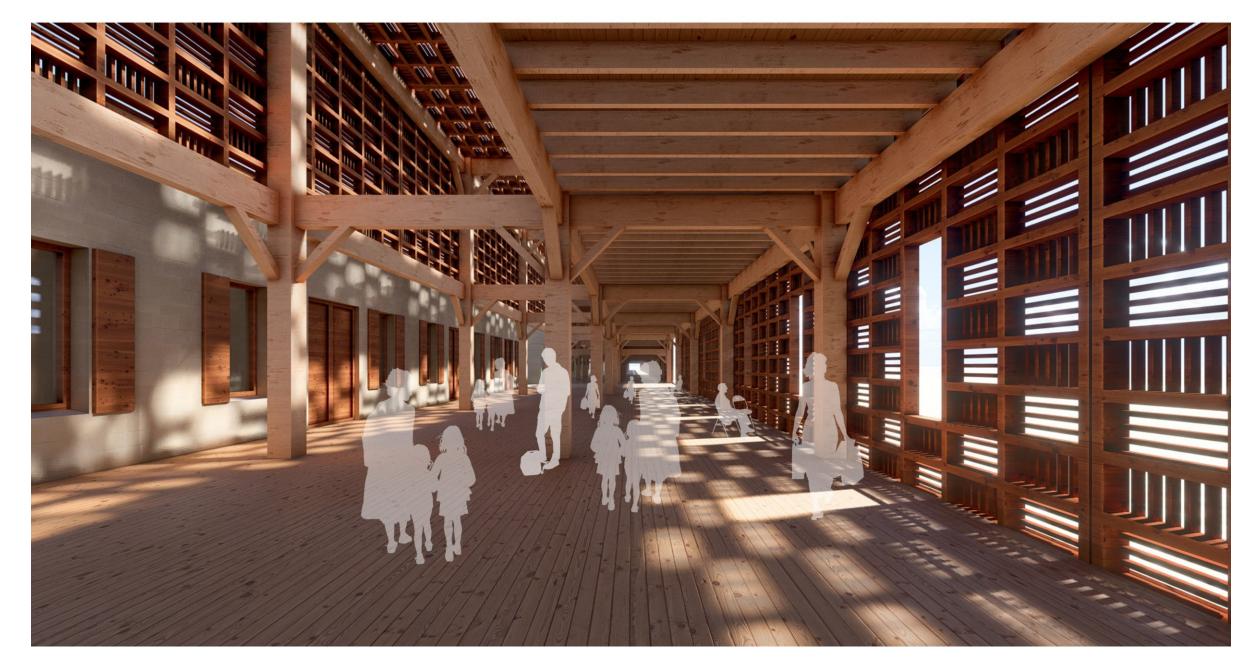


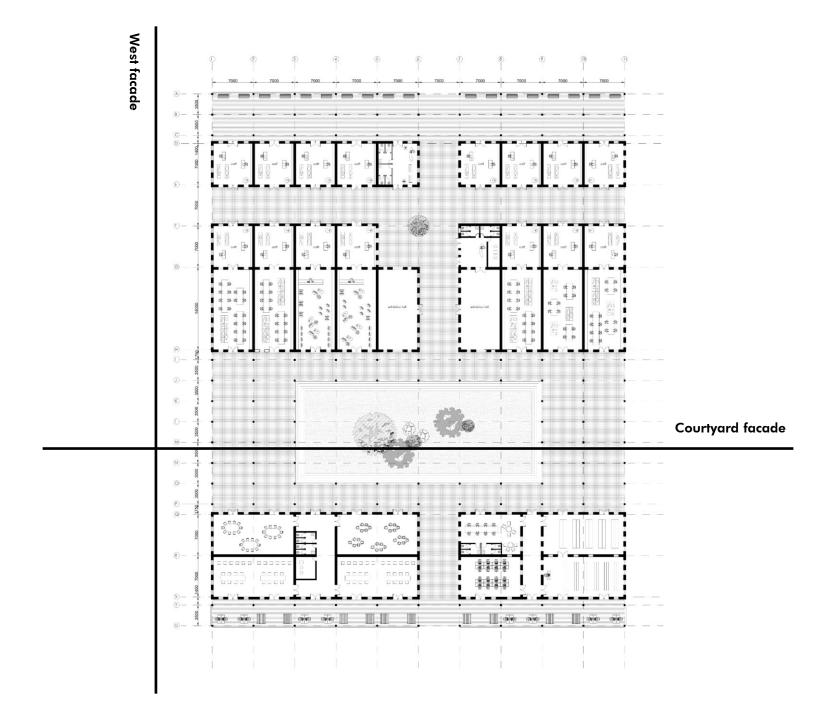






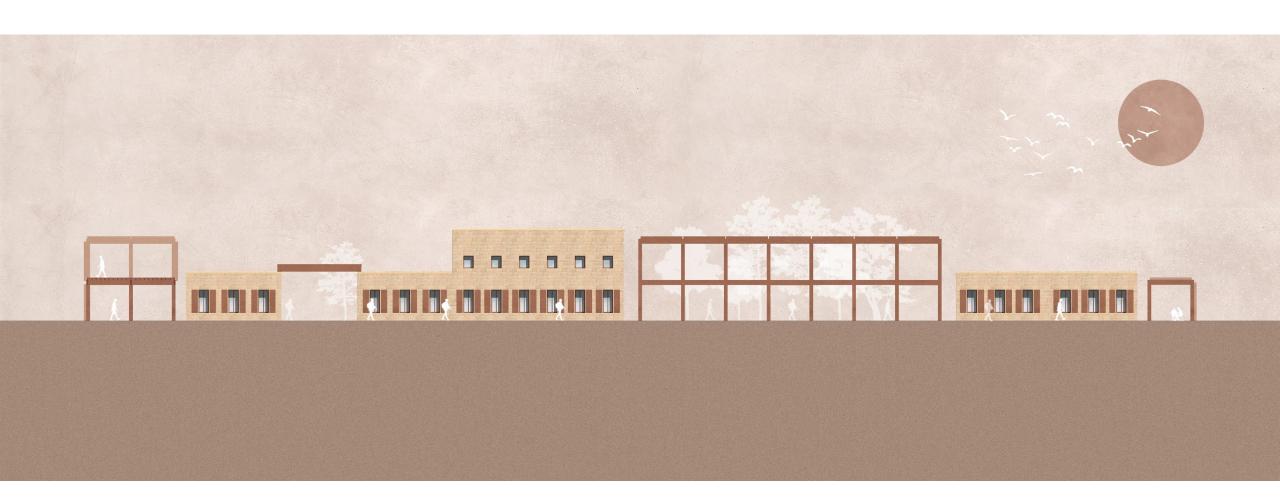


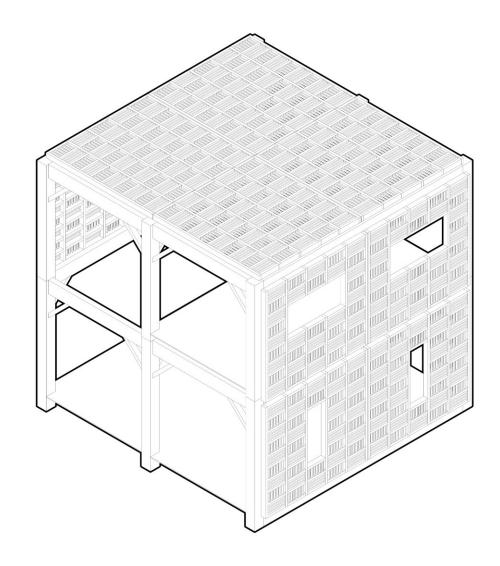


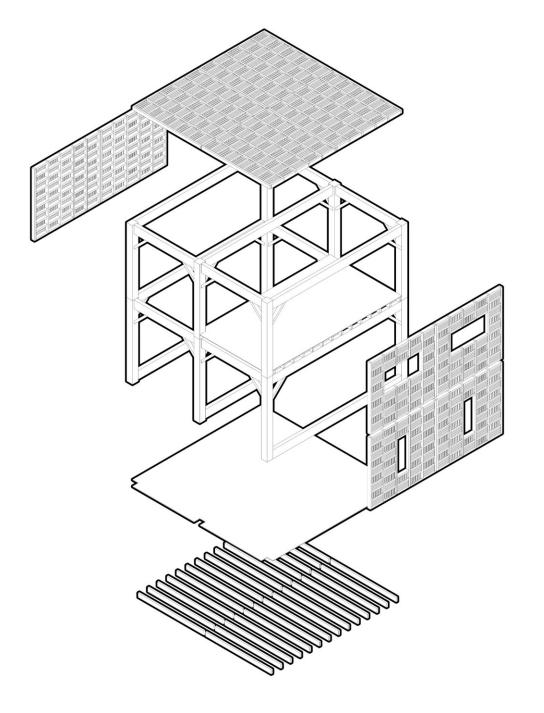


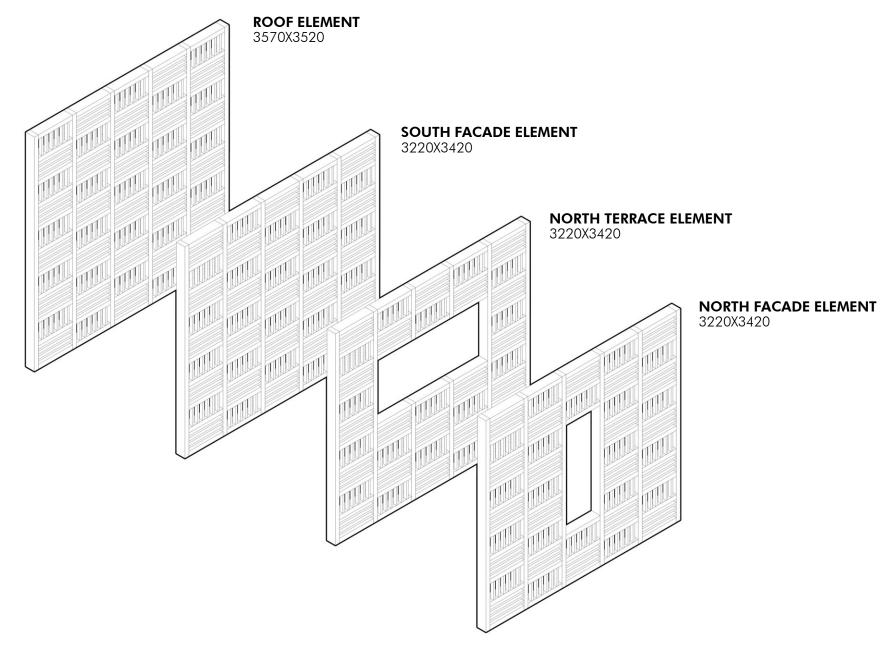
COURTYARD FACADEBAYT AL MADINA

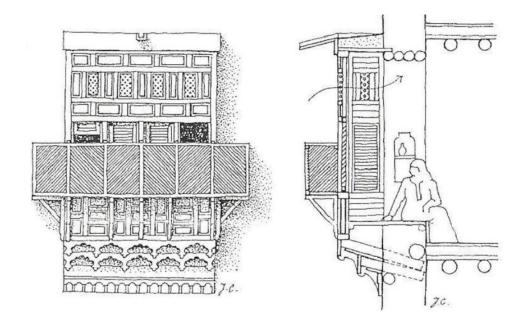


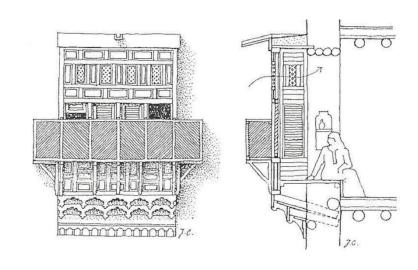








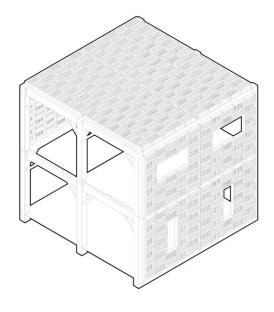




Extended element within the house on the second floor

Domestic only

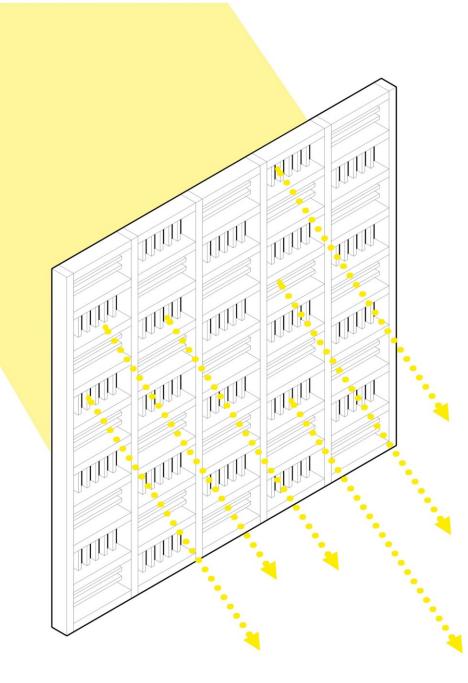
Private closed space

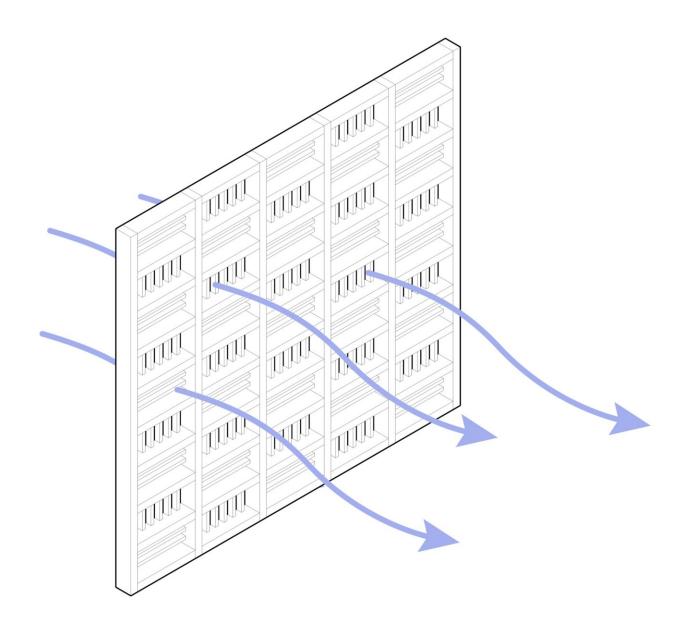


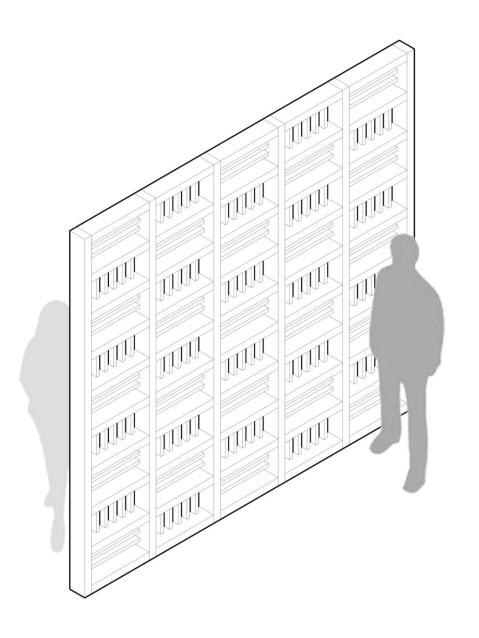
A seperate own space

Public

Open

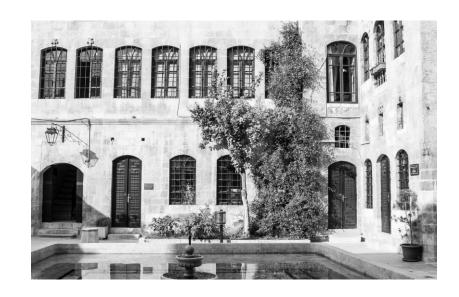






98





Surrounded by four walls

Fountain or trees inside

Same level as building

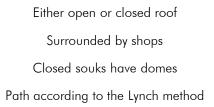


A seperate own space, surrounded by a wood construction

Green structure inside

Almost a meter lower than surroundings





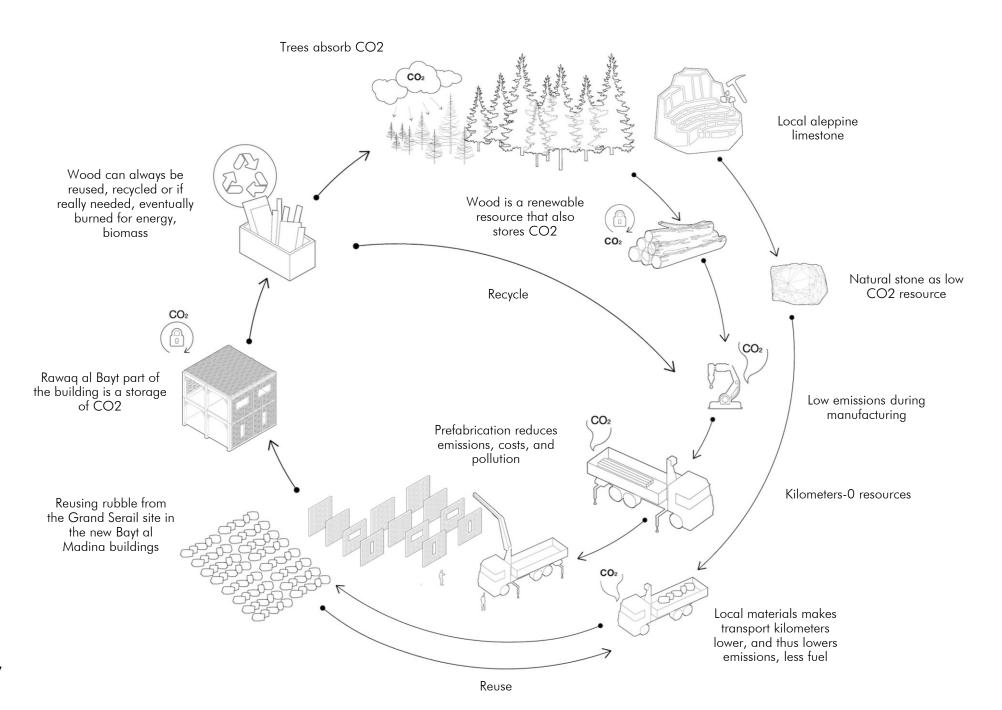


Semi open roof with facade

Craft hub

Terrace looking at the citadel

Both a path and an urban node





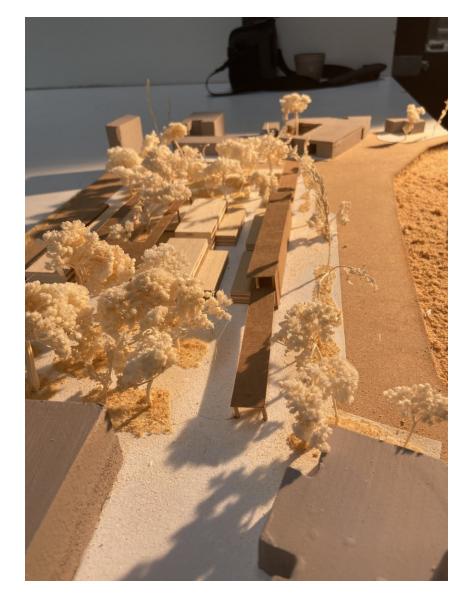
















REBUILDING ALEPPOARCHITECTURE OF RECOVERY IN A WAR-TORN CITY