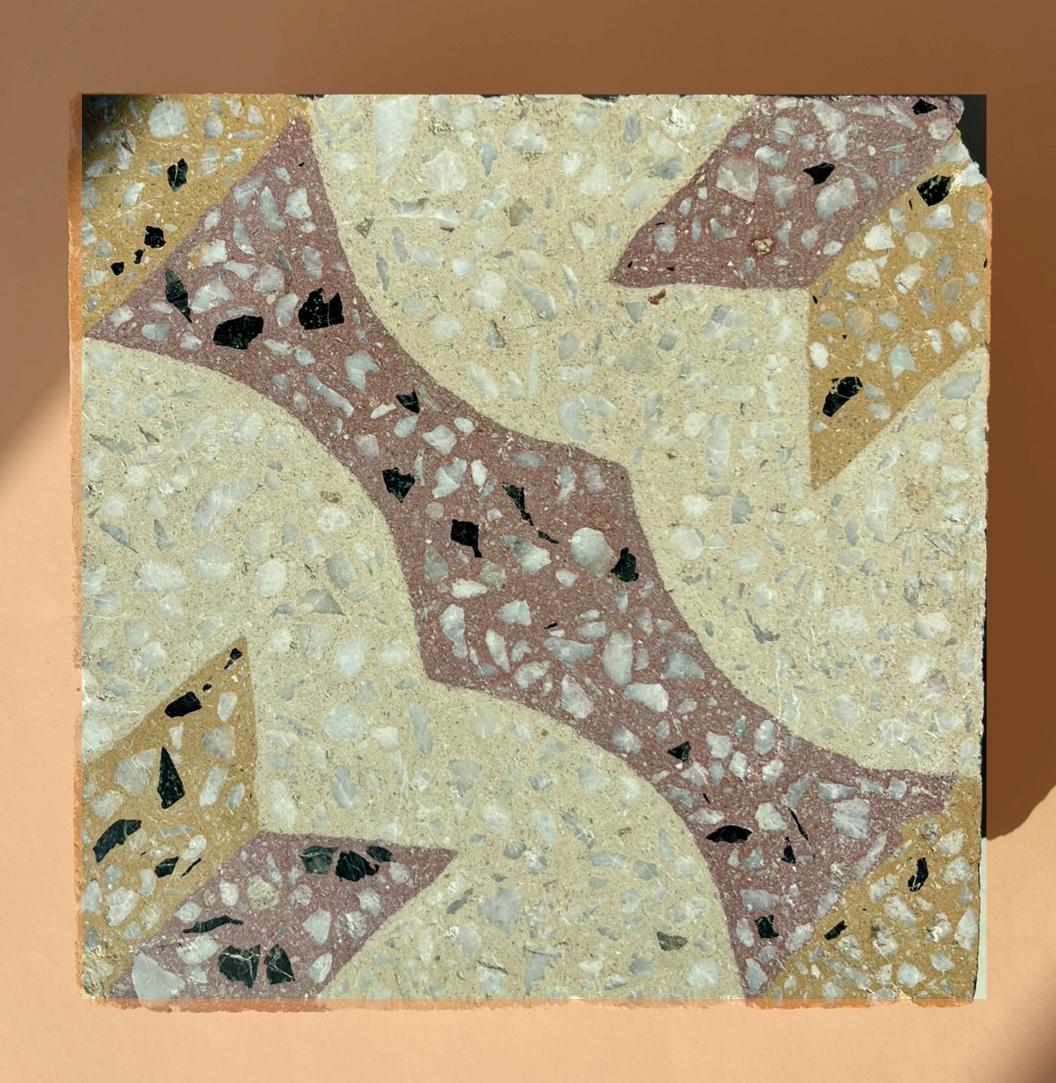
WELCOME!



Urban Resilience Through Community-Driven Architecture:

The Case of Uzun Çarşı

Explore Lab | Graduation Presentation
09.04.25 | P5
Meriç Kessaf
4617770
John Hanna
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Rufus van den Ban

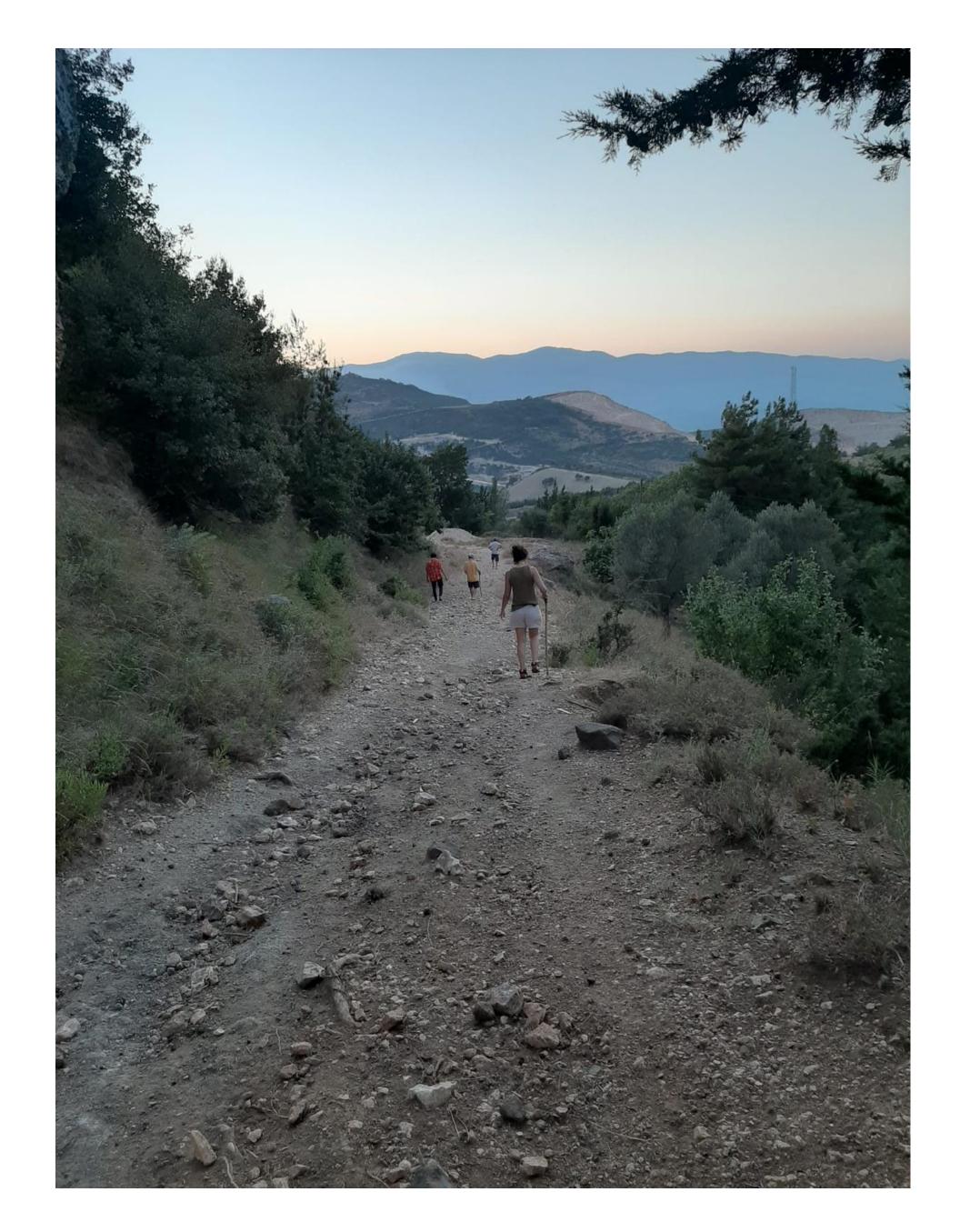


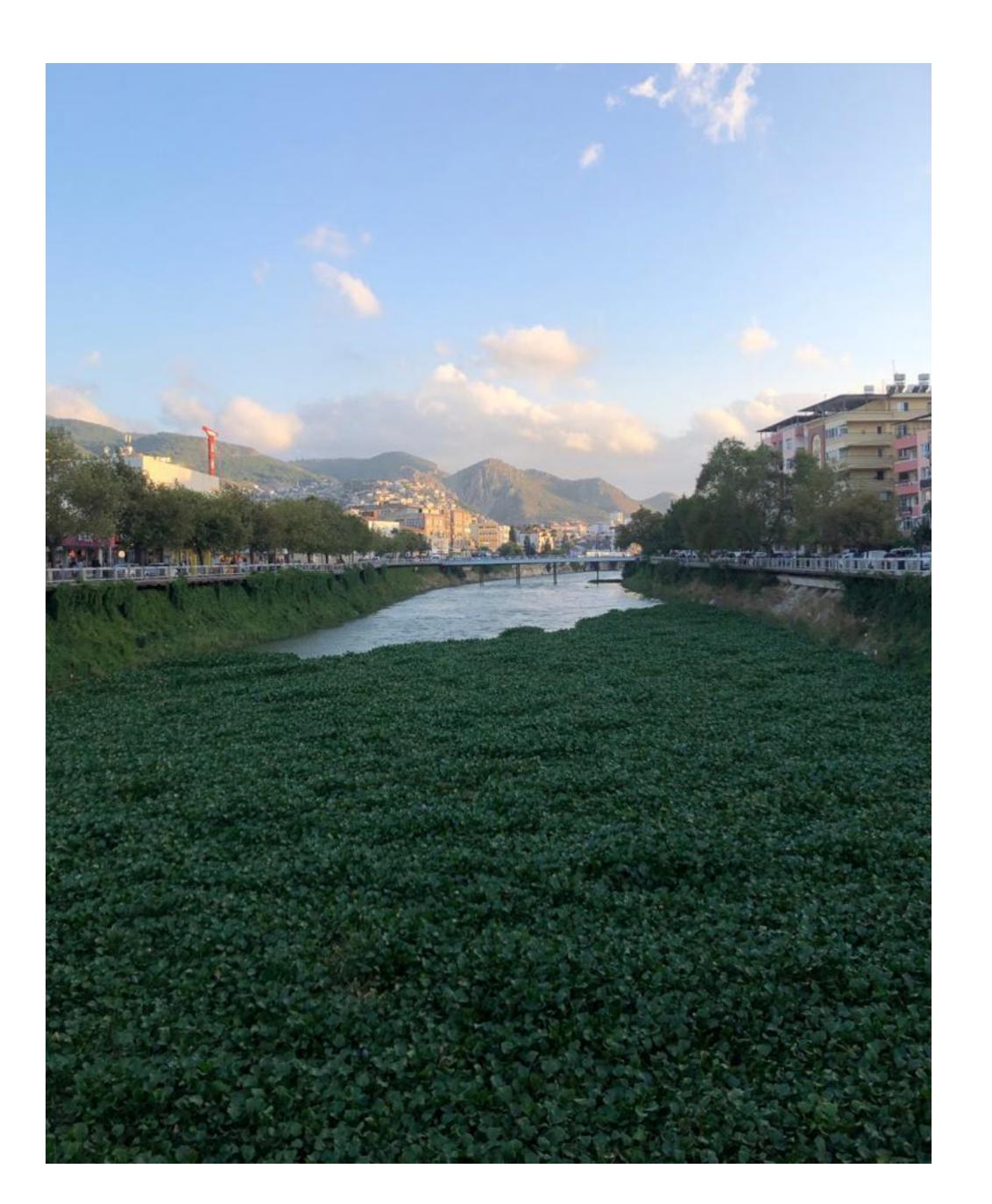
Fascination.



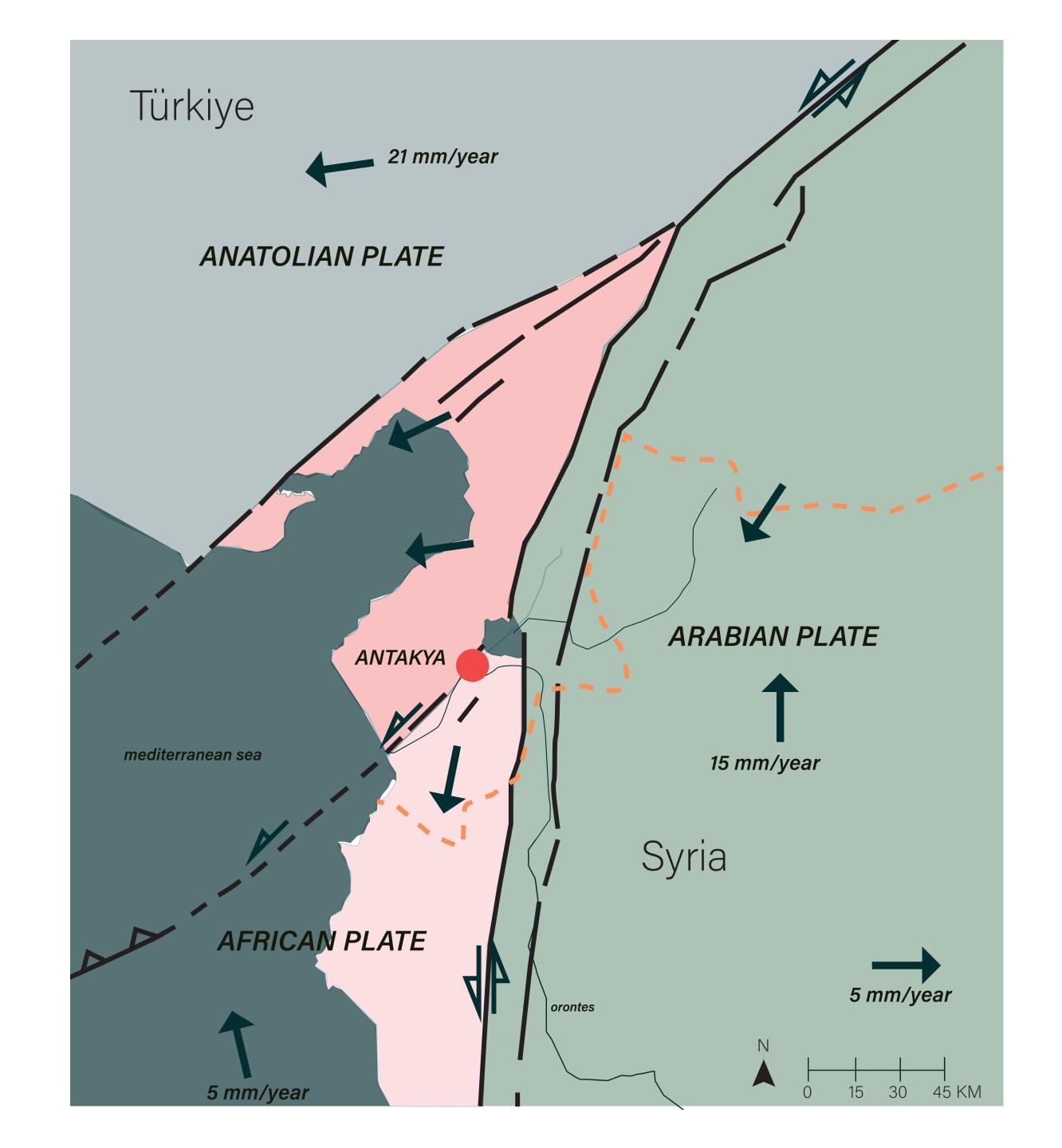


Fascination.



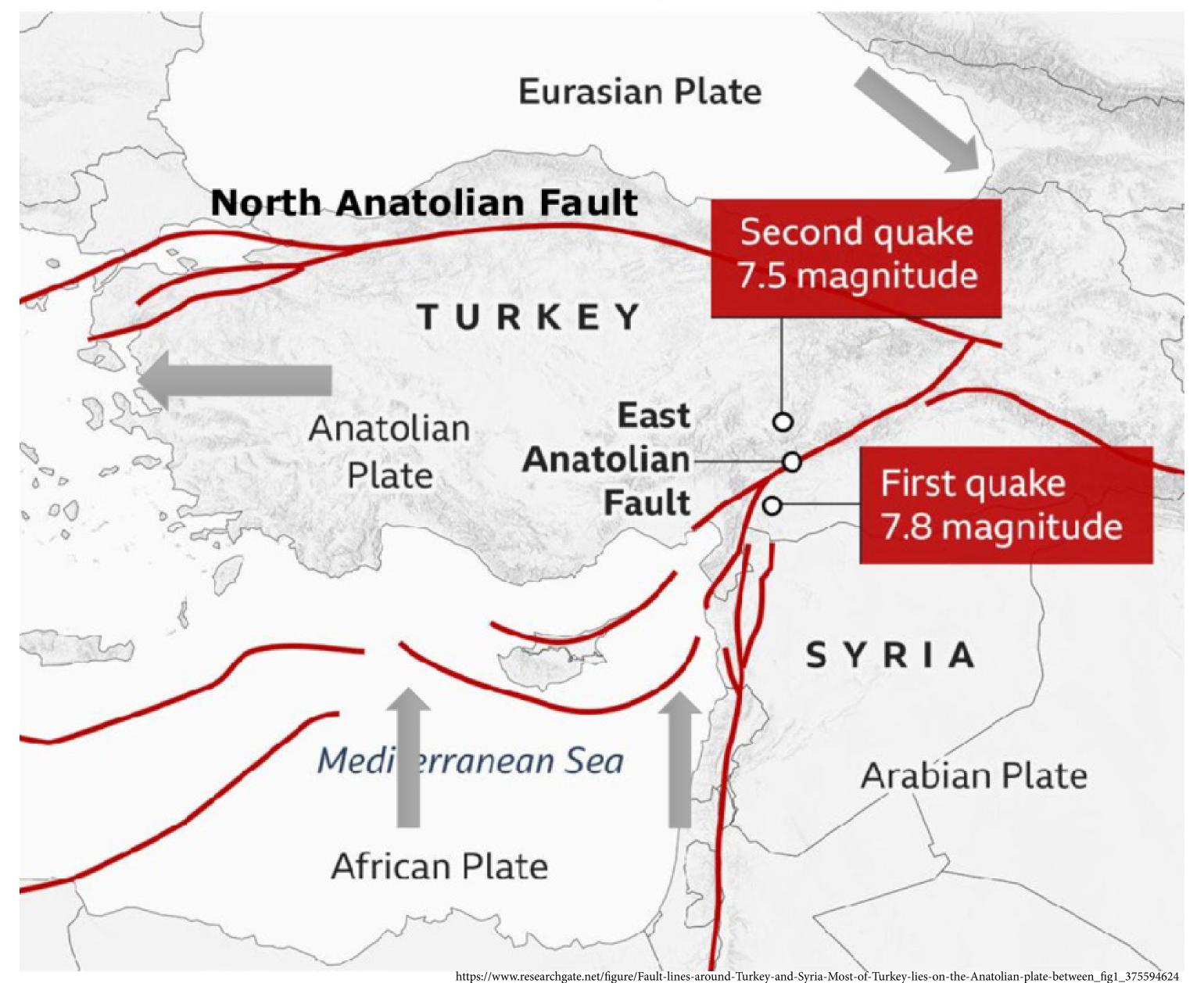


Fascination.



Earthquake.

6 February 2023 | 4:17



6 February 2023 | 4:17



14 million people affected

39,000 buildings collapsed on the first day

Total of 704,281 buildings collapsed, (severe/minor) damages

5 million people migrated to different regions

53,537 deaths in Türkiye and 8,476 deaths in Syria

Earthquake.

Antakya, most affected city after the earthquake. Now a desserted city. People from antakya fear the city wil not rise again



Earthquake.

Antakya, most affected city after the earthquake. Now a desserted city. People from antakya fear the city wil not rise again



Hope.



Hope.



Hope.



Problem statement.

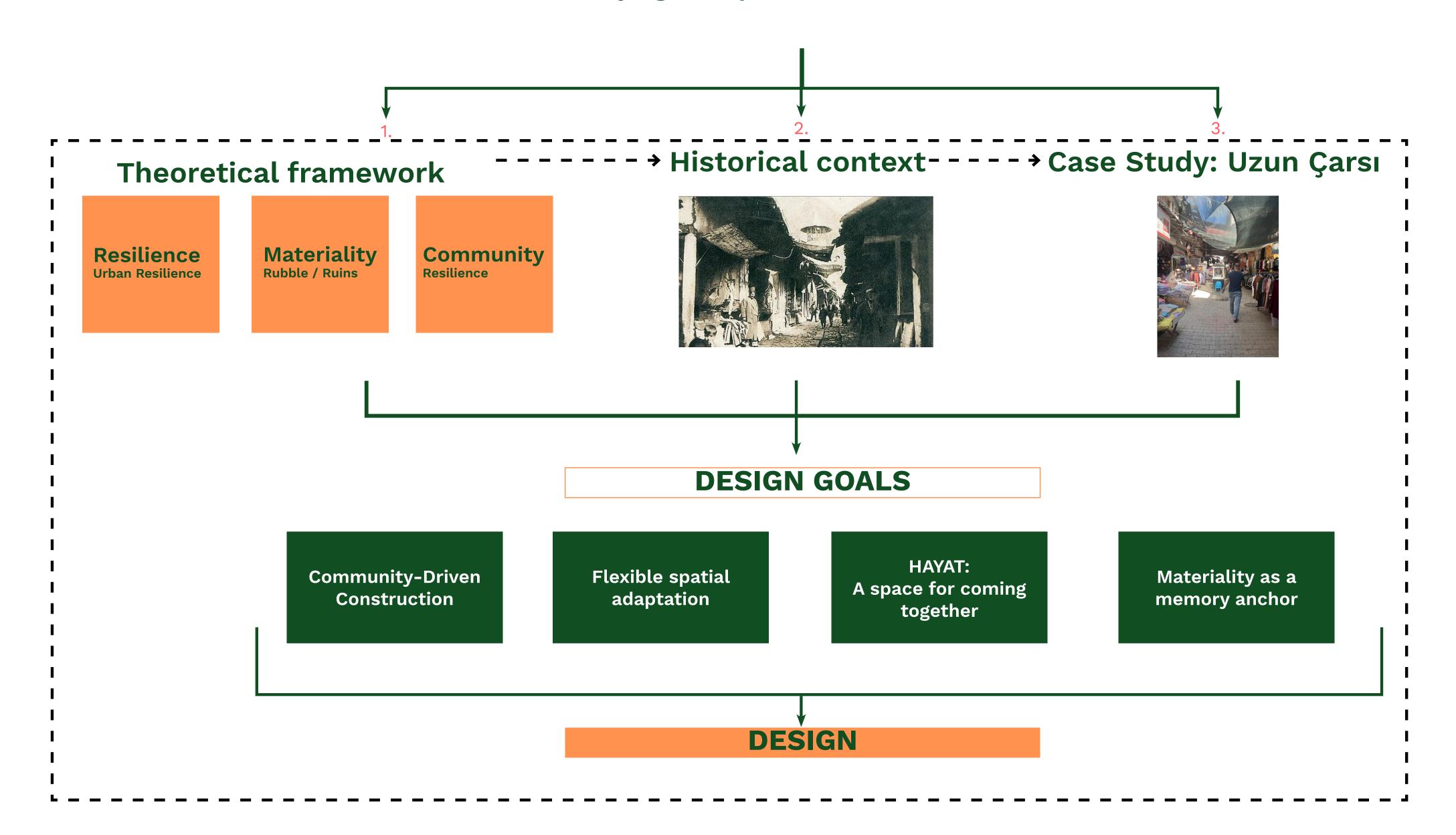
The main objective of this research is:

to explore how architectural interventions can foster resilience, preserve memory, and support community-driven recovery in Antakya's Uzun Çarşı,

without imposing a design, but through subtle interventions that build on the resilience already present.



"How can architectural intervention help Antakya become a more resilient city against periods of destruction?"



Resilience.

Patel & Nosal (2016):

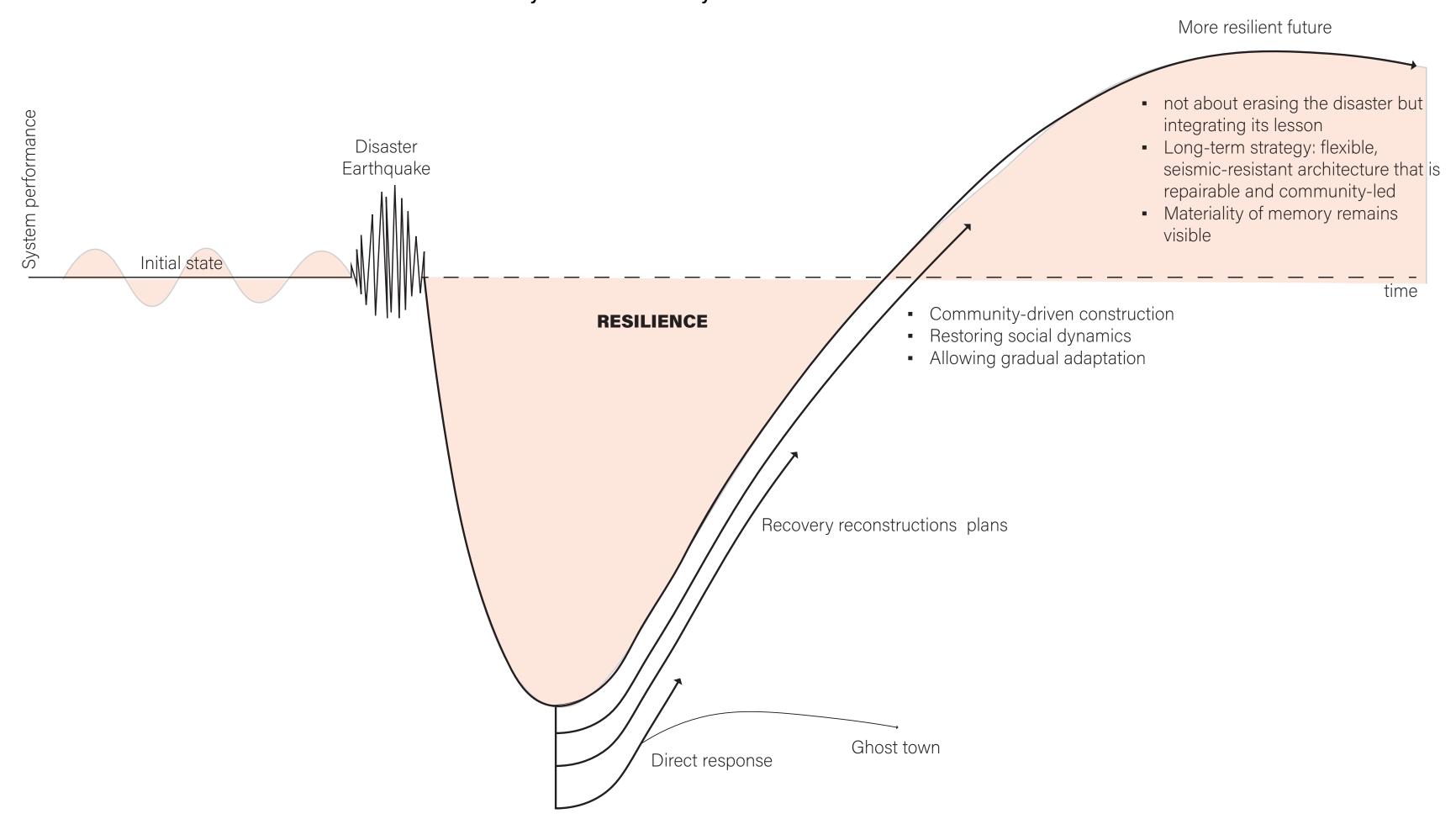
Urban resilience is the capacity of a system (city, community) to absorb shock, adapt, and thrive in the face of disruption.

Lahoud (2010):

Resilience is cognitive and perceptual, not just material.

Vale & Campanella (2005):

Memory and identity are central to resilience.



Materiality.

Ingold (2007):

Materiality is a sensory and evolving experience, not just a static property.

Gordillo (2014):

Rubble and ruins are "affectively charged matter"—they hold emotional and historical significance.

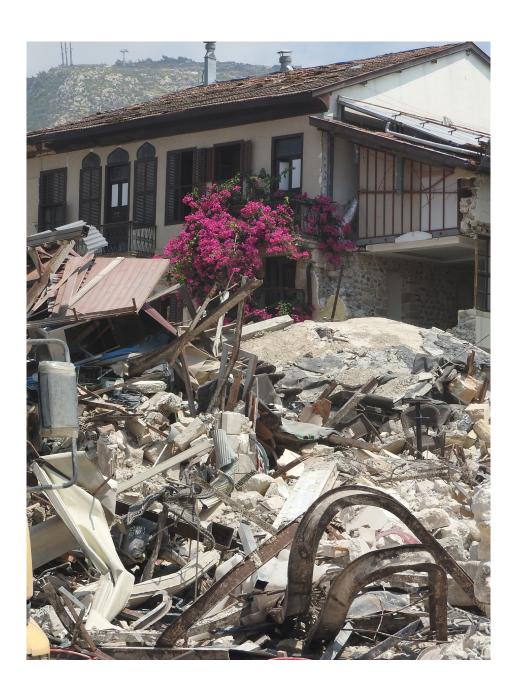
Stoler (2013):

Ruins are often reframed by governments to shape narratives of resilience—who controls the memory?

Heath-Kelly (2016):

cleaning remnants as a symbol of resilience to promote economic and political stability by governments







Community building.

James C. Scott (1998):

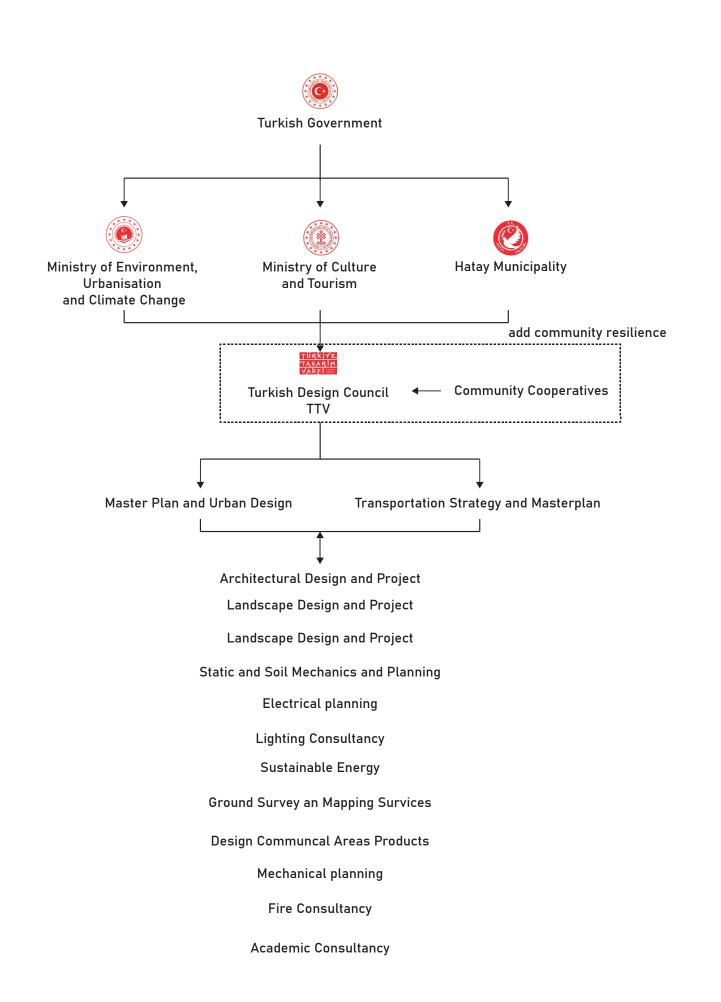
Imposed solutions fail when they don't align with local practices.

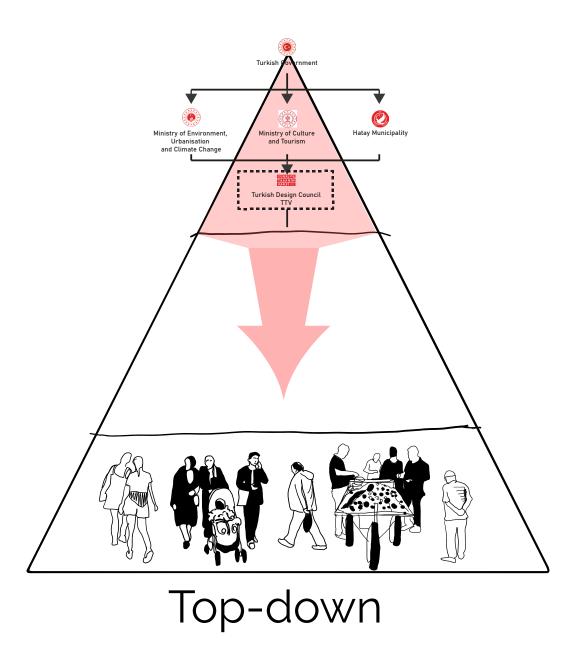
Lahoud (2010):

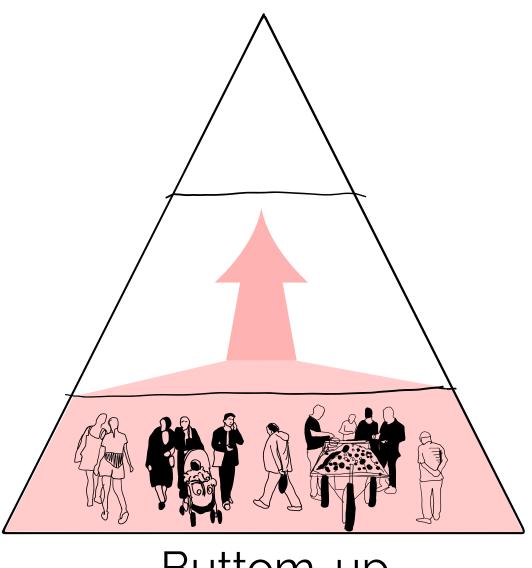
Collective Healing: Architecture should respond to collective needs, not dictate them.

Dovey & King (2011):

Spatial Agency: Built environments support resilience through everyday interactions.







Buttom-up

Community building.

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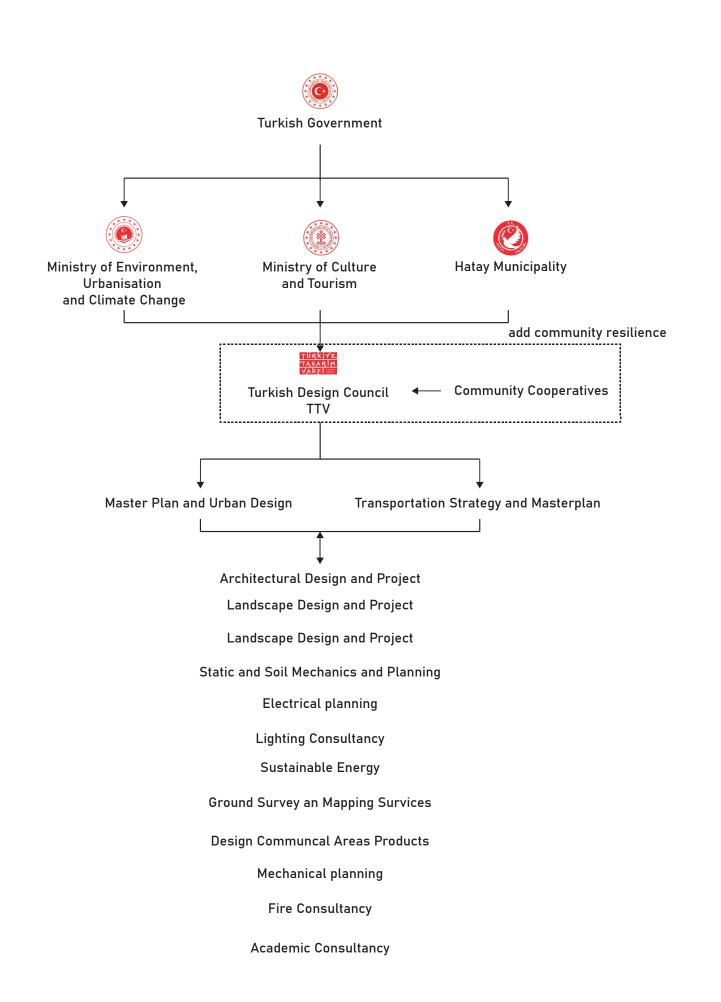
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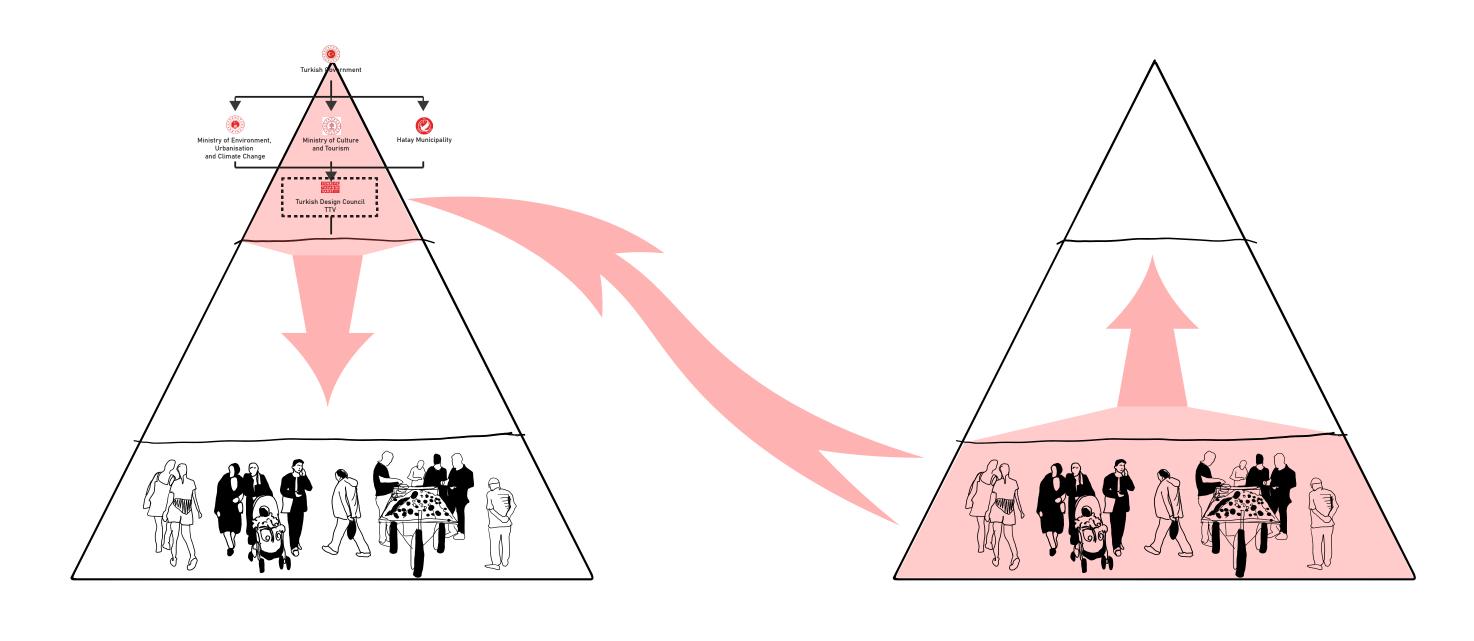
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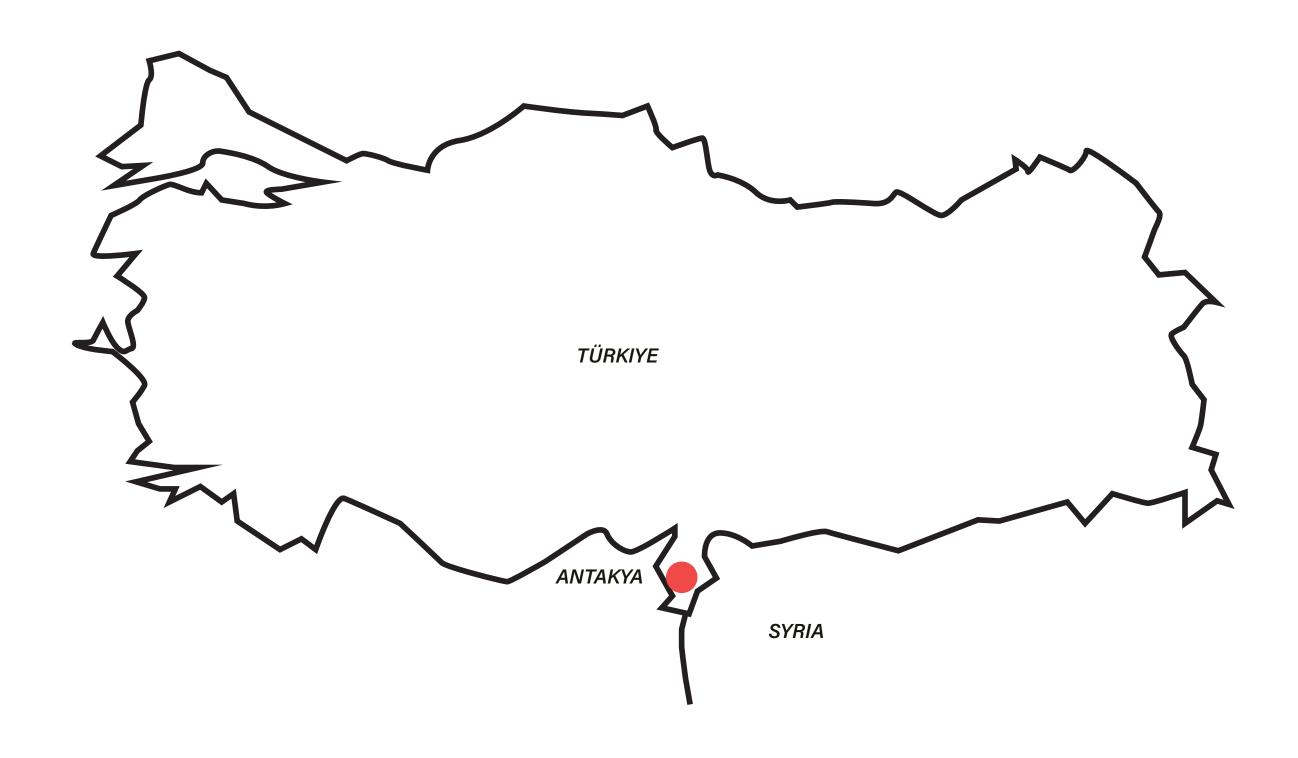
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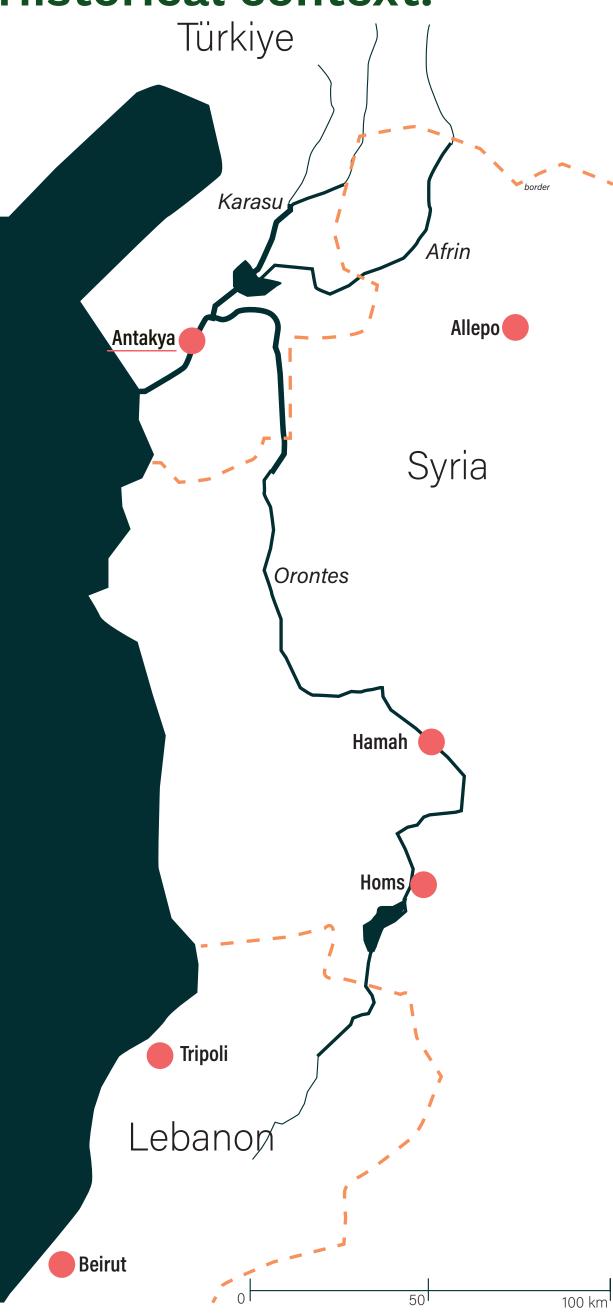
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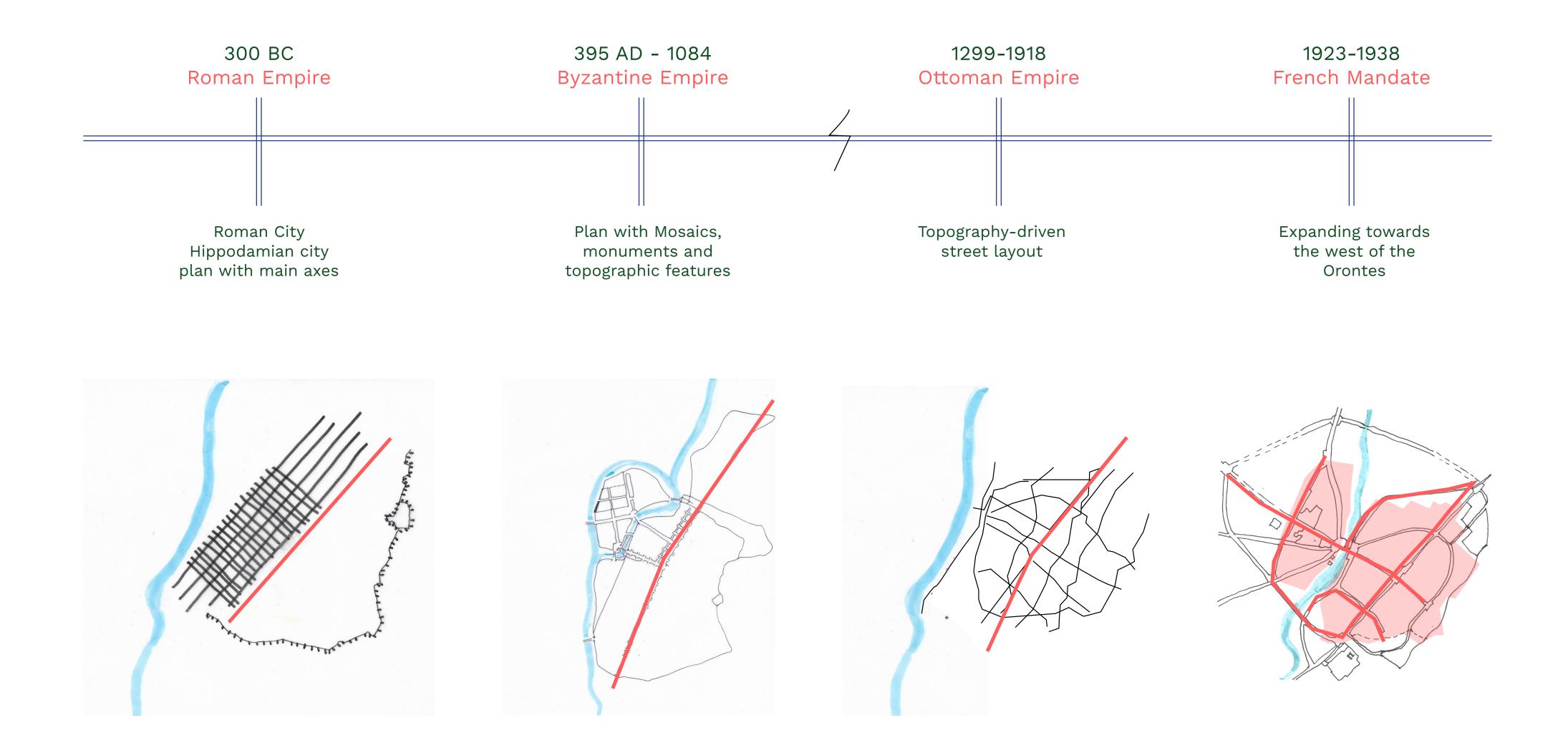




Cosmopolitanism

historically populated by Greeks, Romans, Persians, Arabs, Orthodox Chaldeans, Syriac Melkites, Armenians and Jews





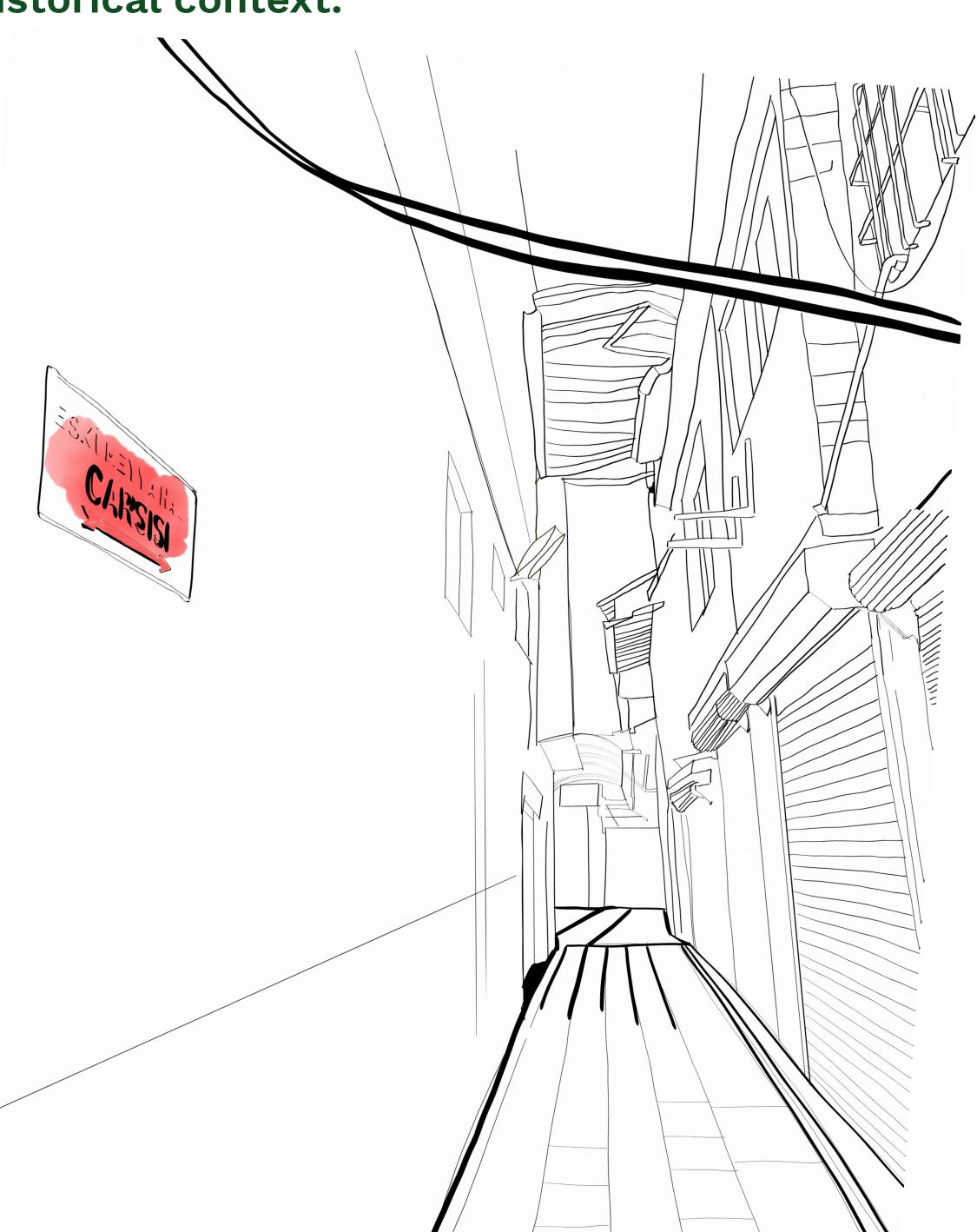
Turkish Design Council Masterplan



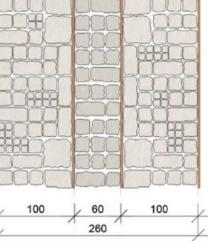


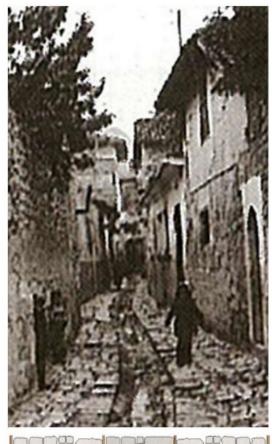


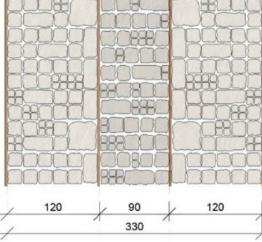


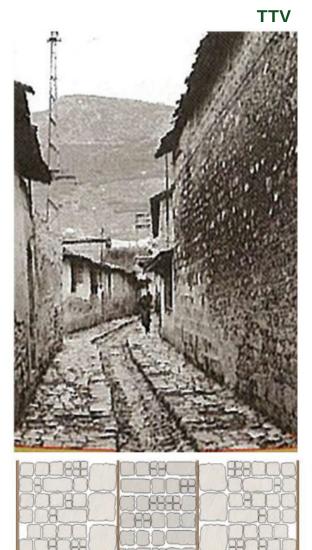


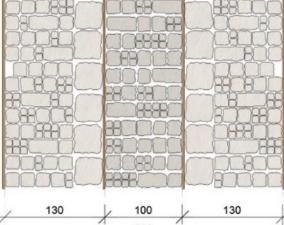




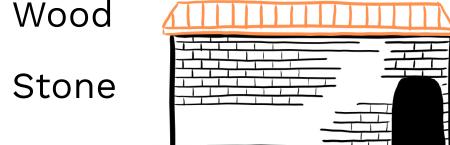


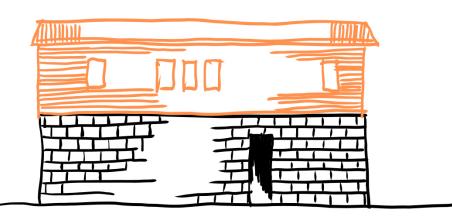


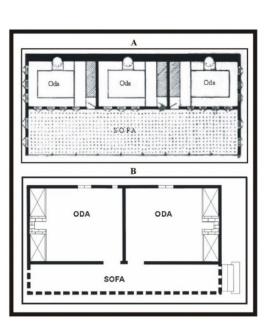




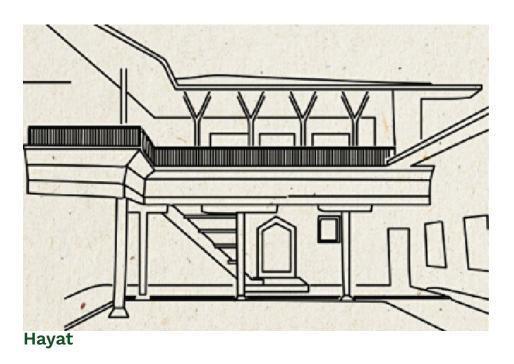
Wood







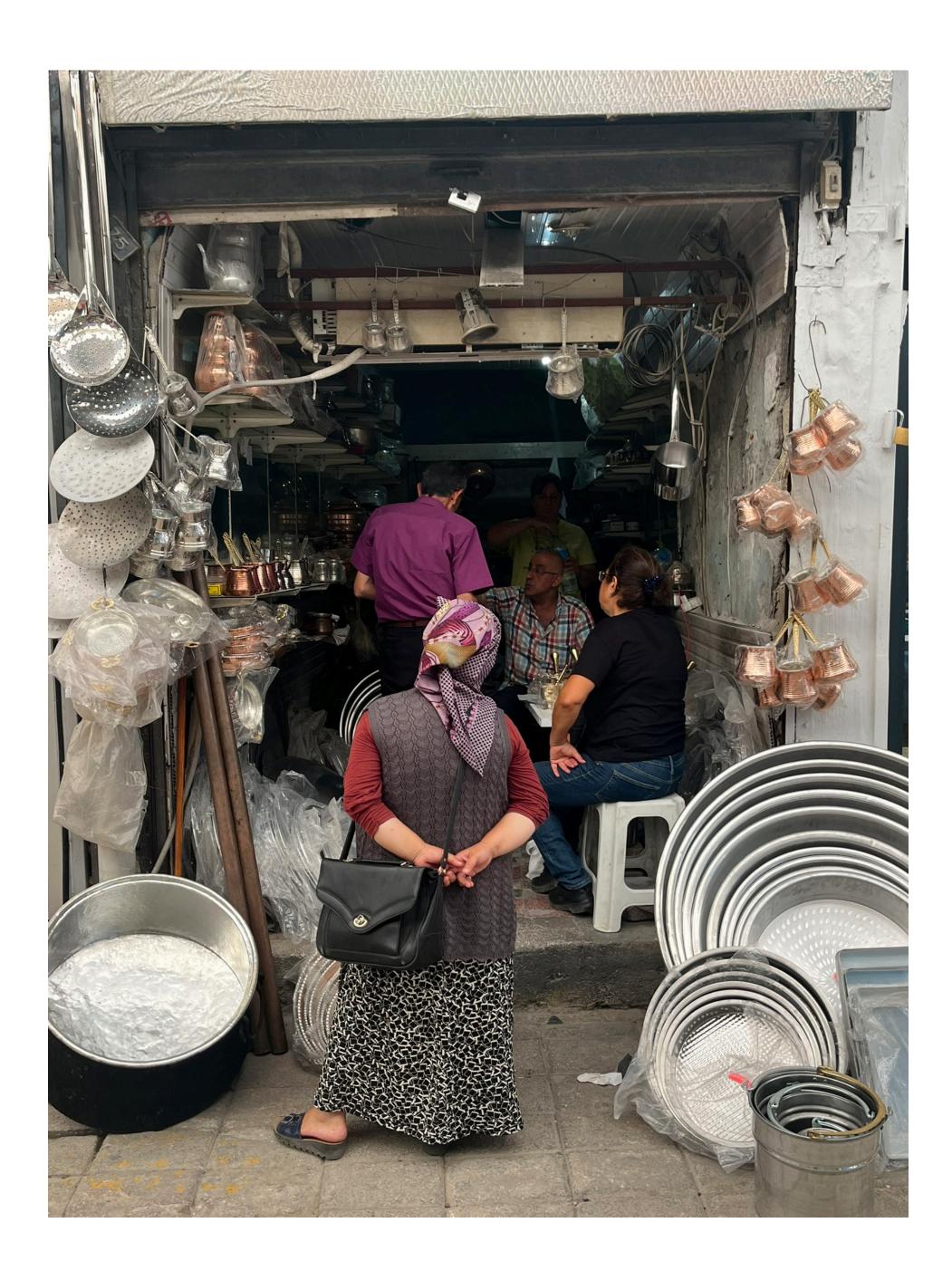


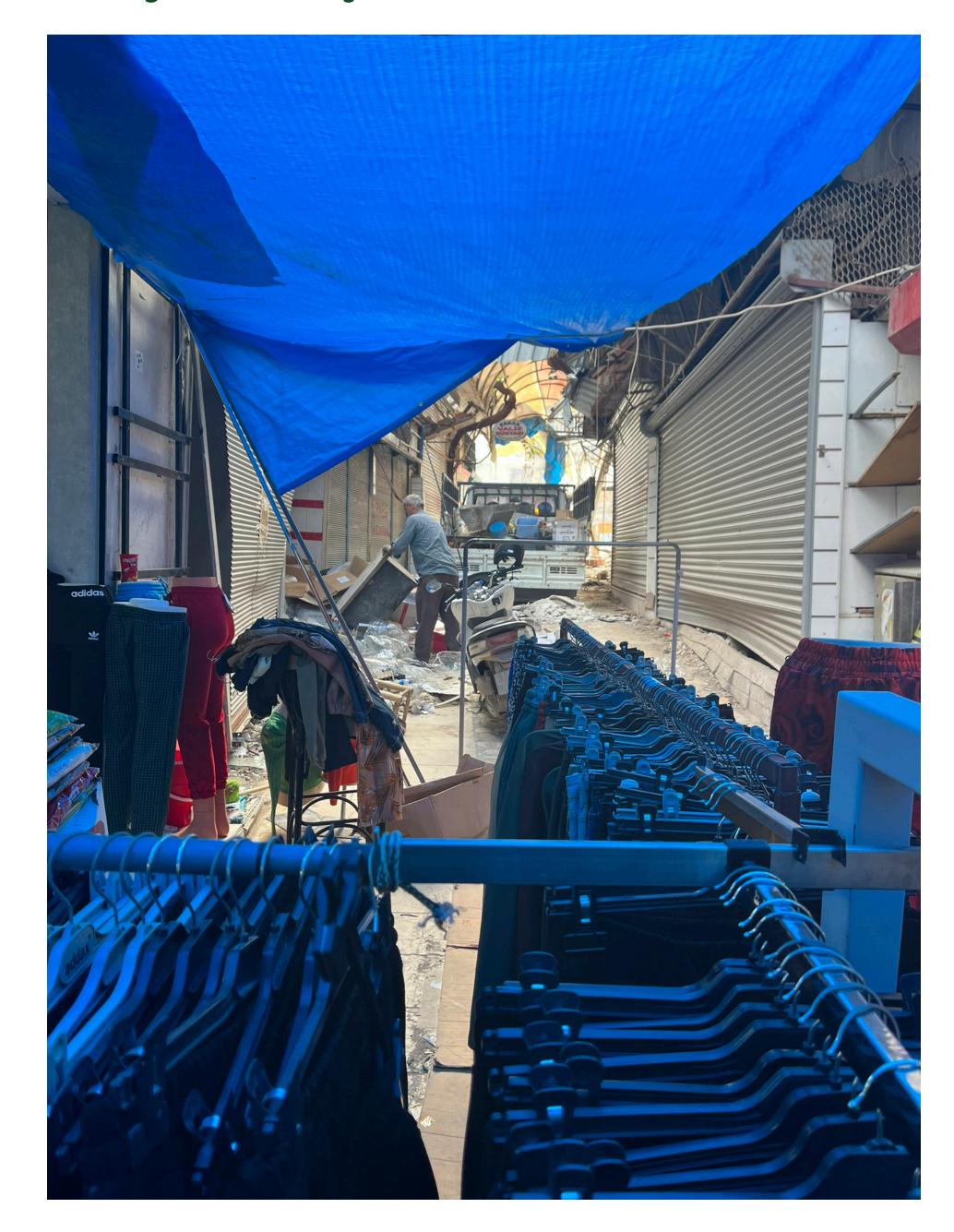


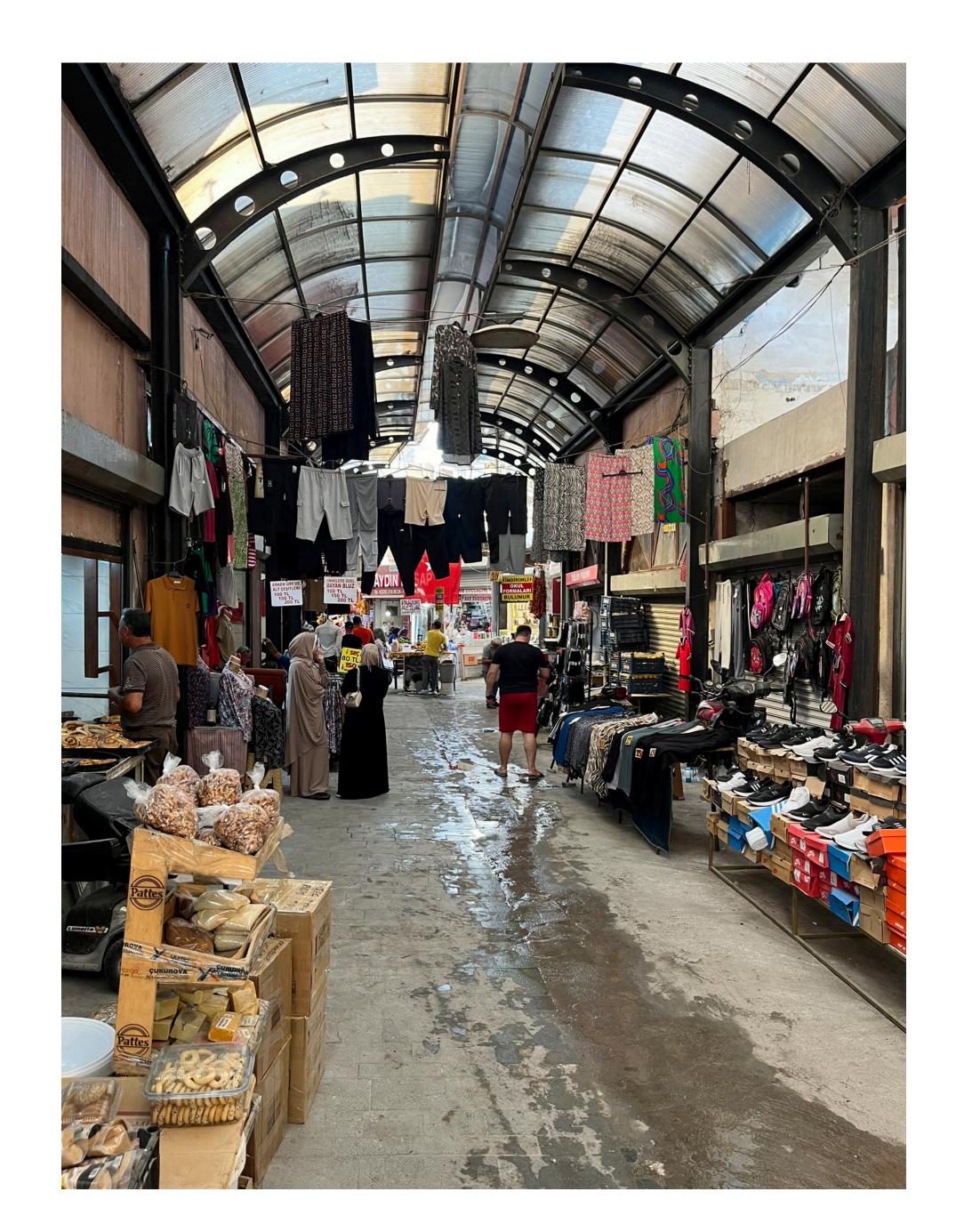
Taghizadehvahed (2015):

"Traditional bazaars are vital hubs of urban identity. These spaces embody a dynamic socio-cultural and economic environment, shaped through history by local traditions, trades, and interactions."













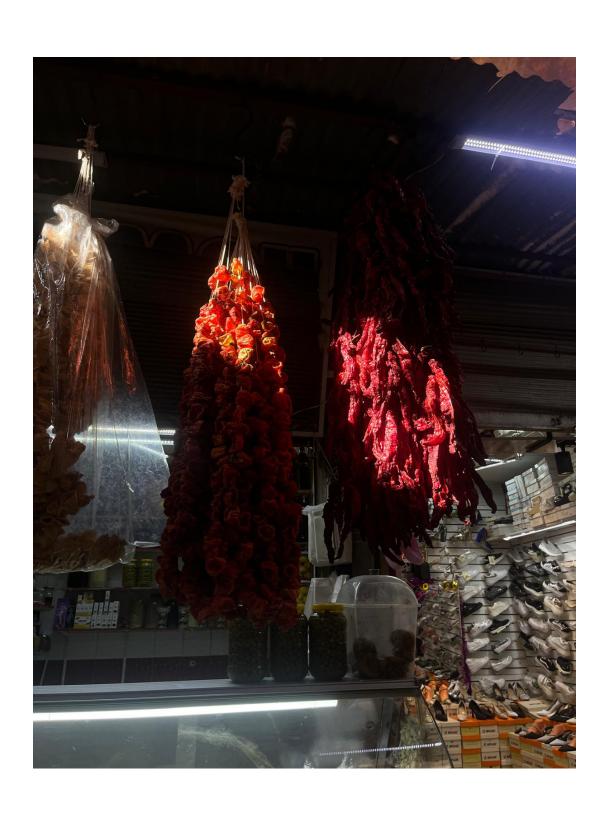




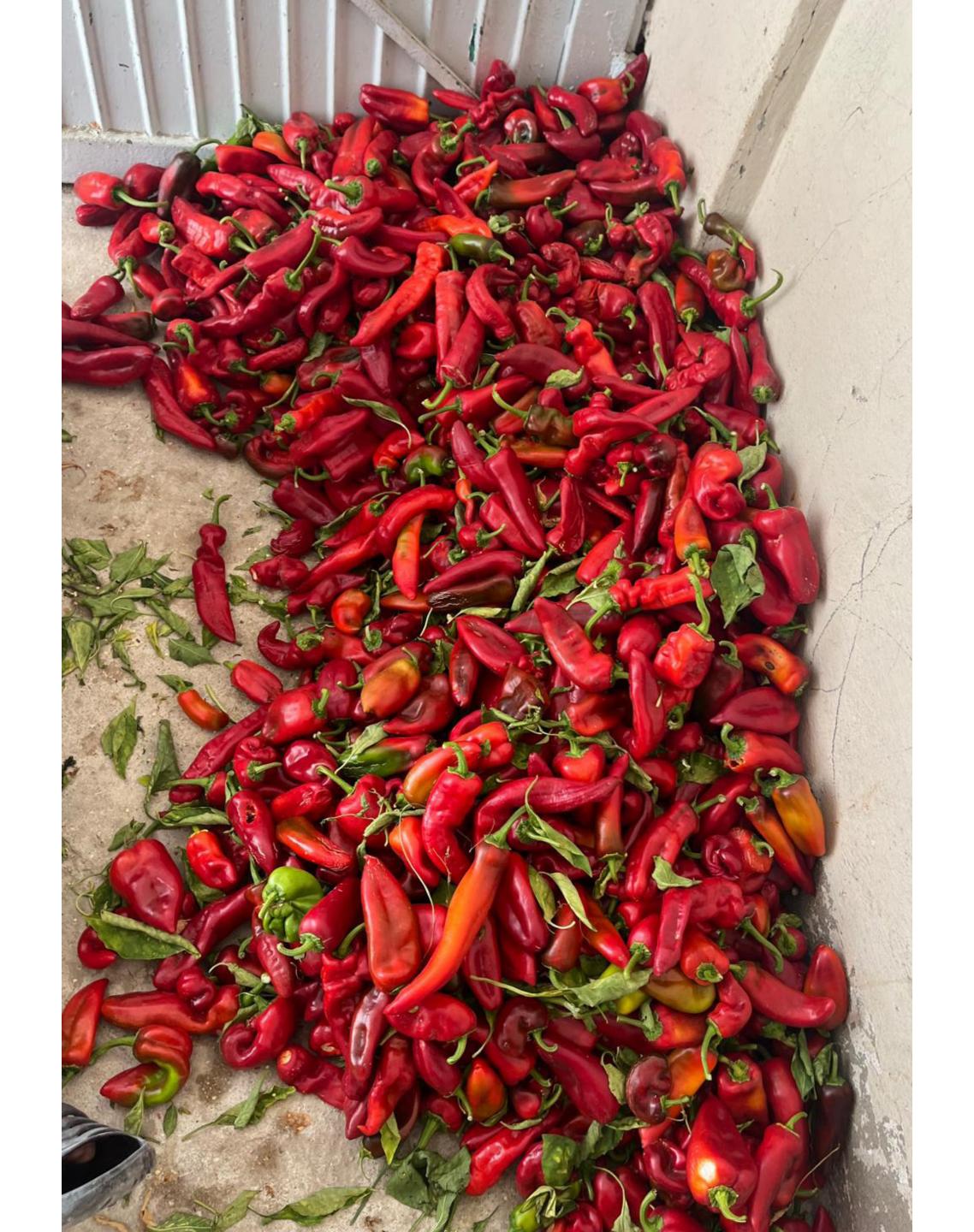




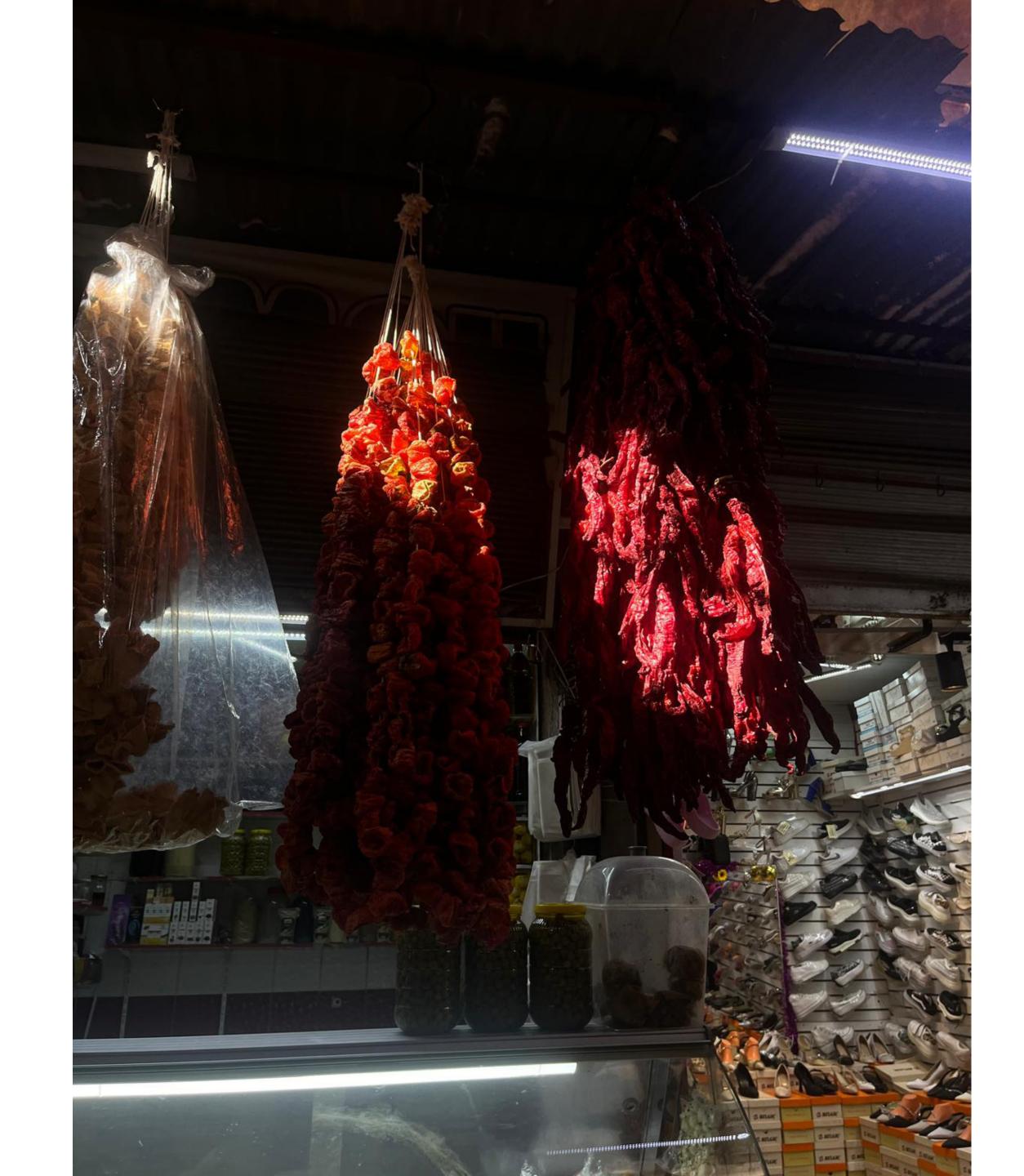












Field trip

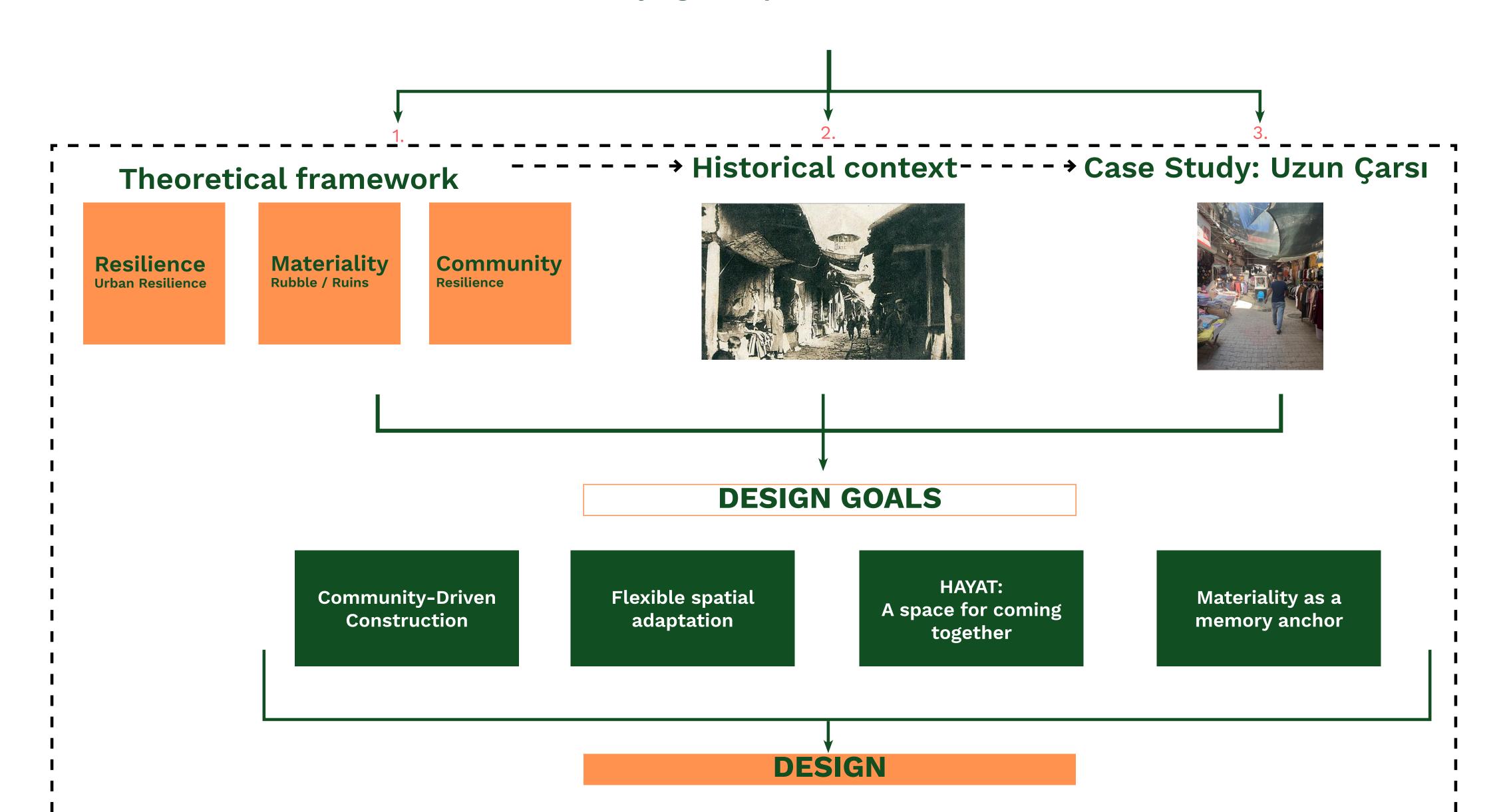
"Helping others helps me. Even when I don't always feel good, seeing that I can support other people, even just a little, makes me feel so much better."

"The loss of control is the worst"



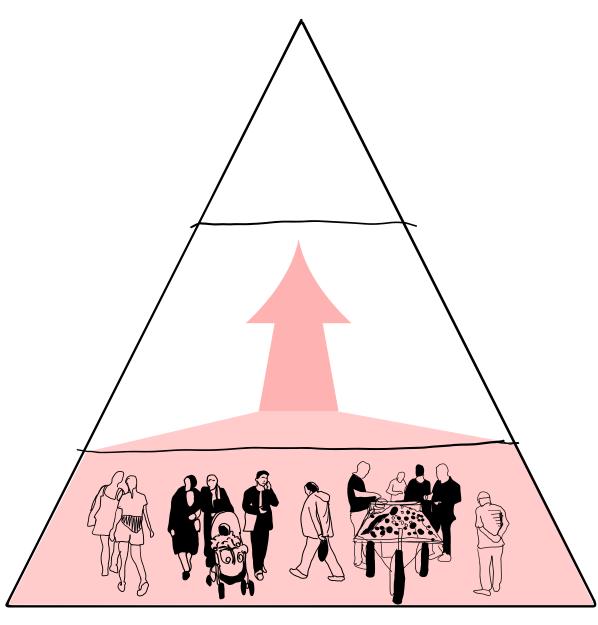
RESEARCH

"How can architectural intervention help Antakya become a more resilient city against periods of destruction?"



1. Community-Driven Construction

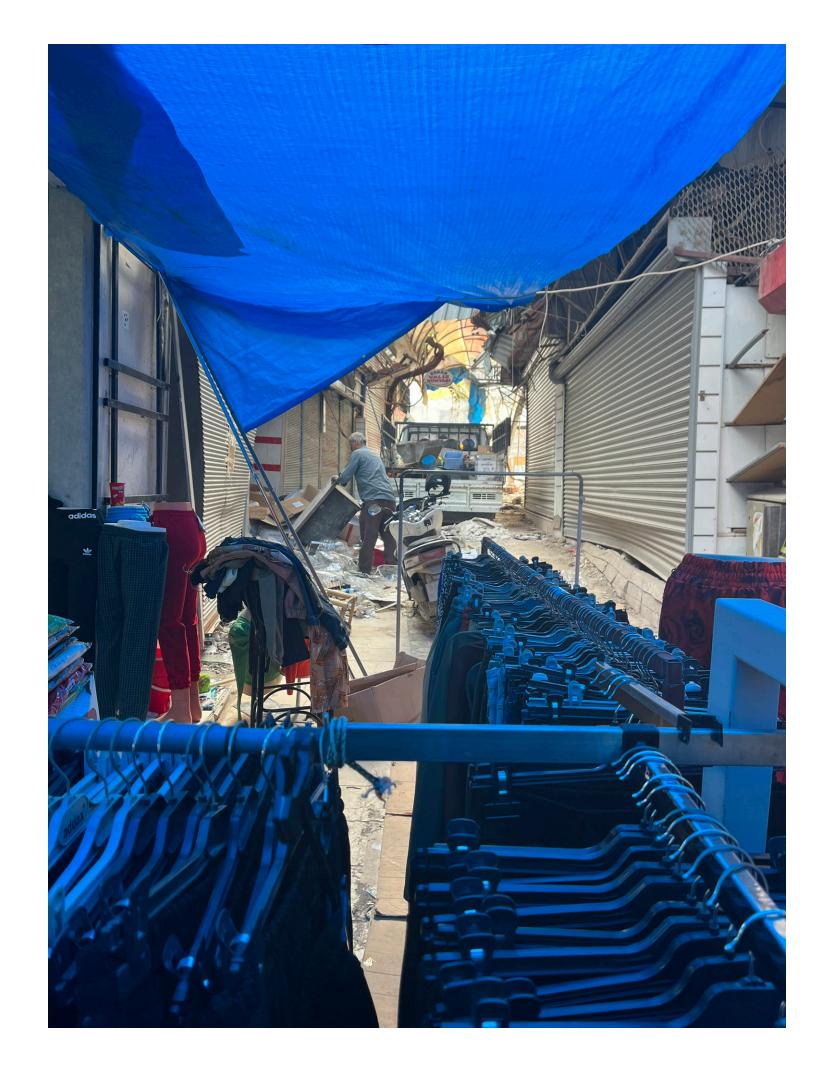


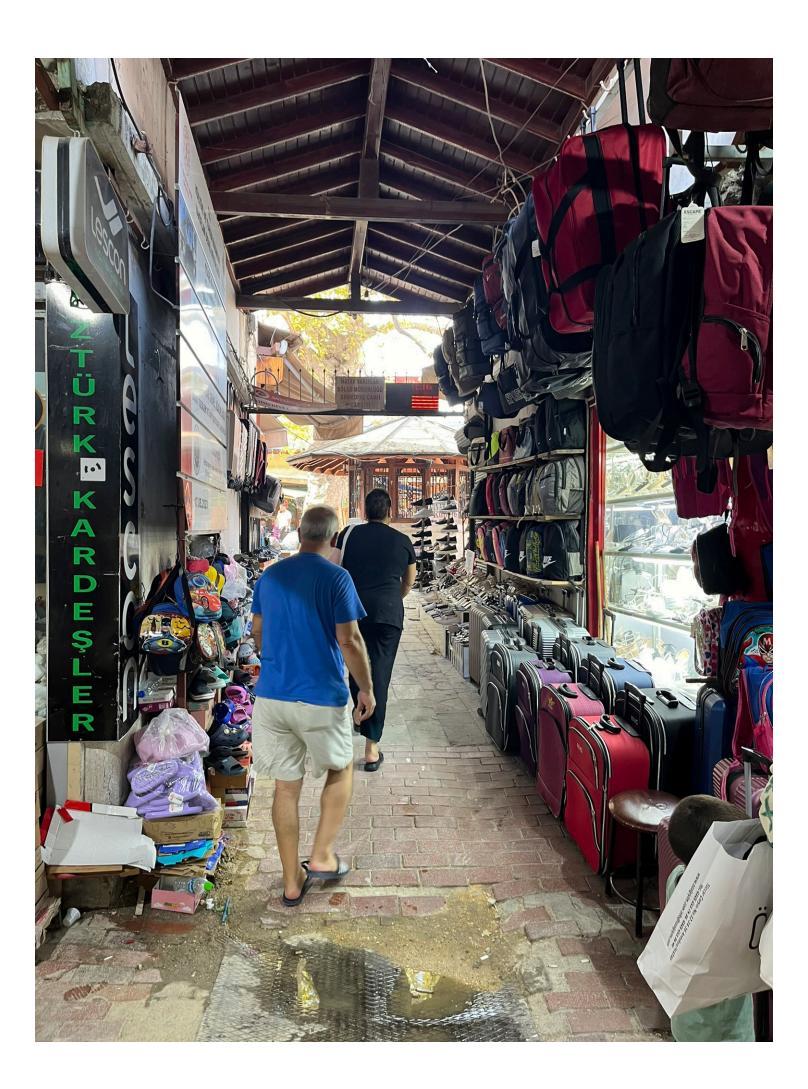


- Market vendors and community members should be part of the construction process.
- Training workshops on earthquakeresistant structures (traditional Turkish & Japanese seismic techniques).
- A modular construction system that allows for incremental building and expansion.

2. Flexible spatial adaptation

- · Lightweight, adaptable designs that allow shop owners to modify their spaces over time
- Multi-use structures that can accommodate both small vendors and large-scale spice traders.
- Integrating movable street furniture & shade structures to adjust to weather conditions and user



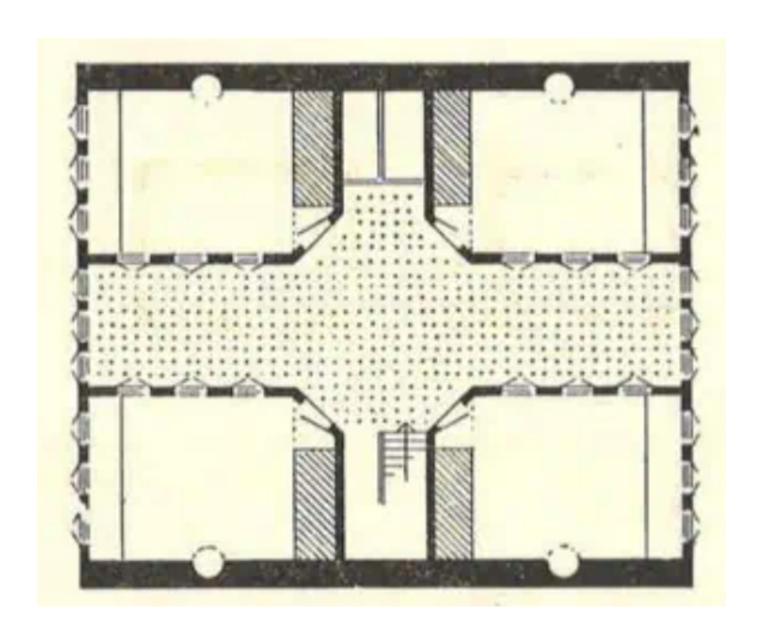




3. Hayat: A space for coming together

- · Creating shaded public spaces ("Hayat") within the market where people can gather.
- Designing informal seating areas around tea shops, spice stalls, and key intersections.
- · A hayat, a space for coming together see, meet, rest and talk with eachoter about your traumas

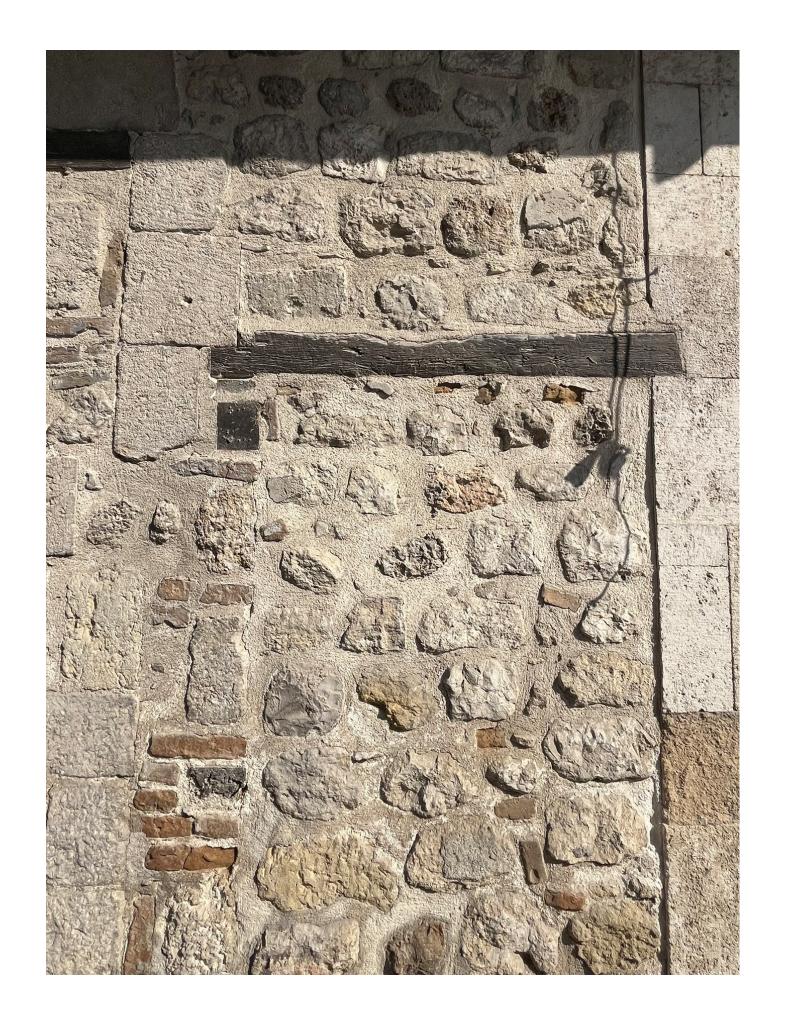




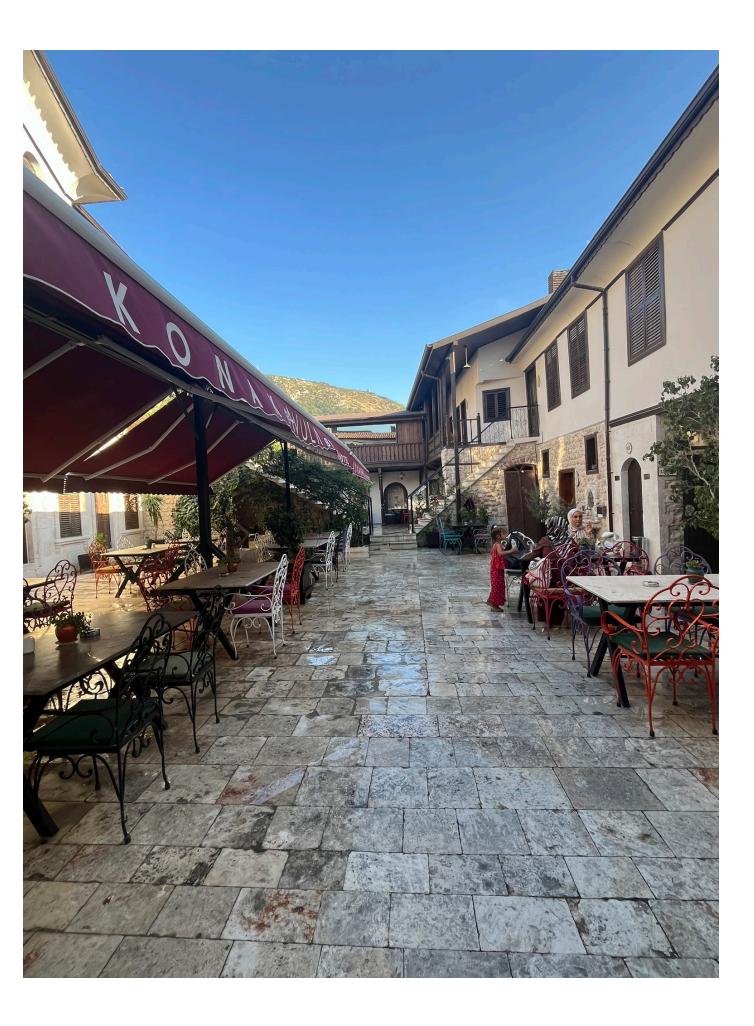


4. Materiality as a memory anchor

- Reusing earthquake rubble as building material (incorporating fragments of the old market into new designs).
- Creating a visual language that acknowledges destruction but focuses on renewal.







Community-driven construction. Community rebuilding plan

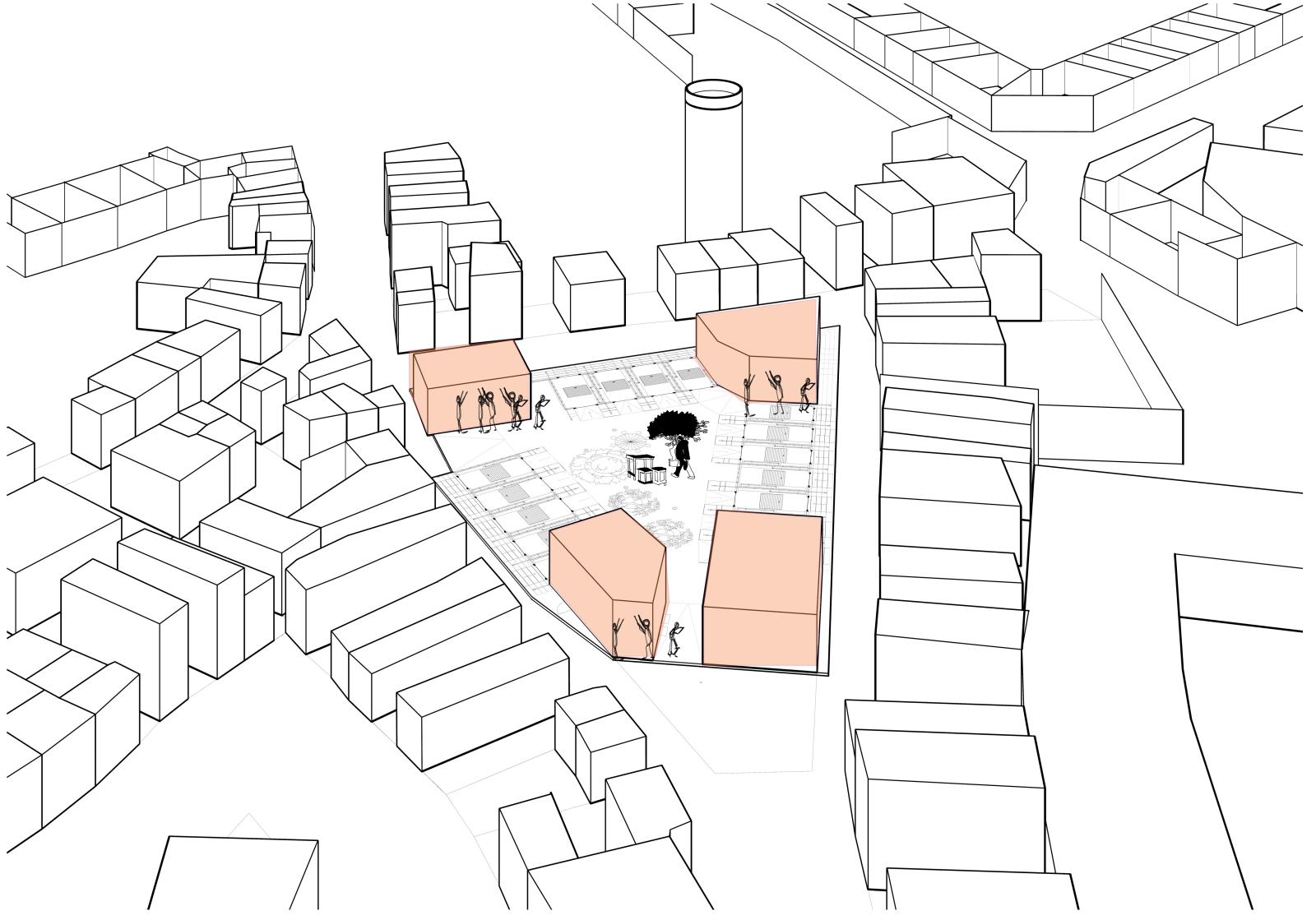




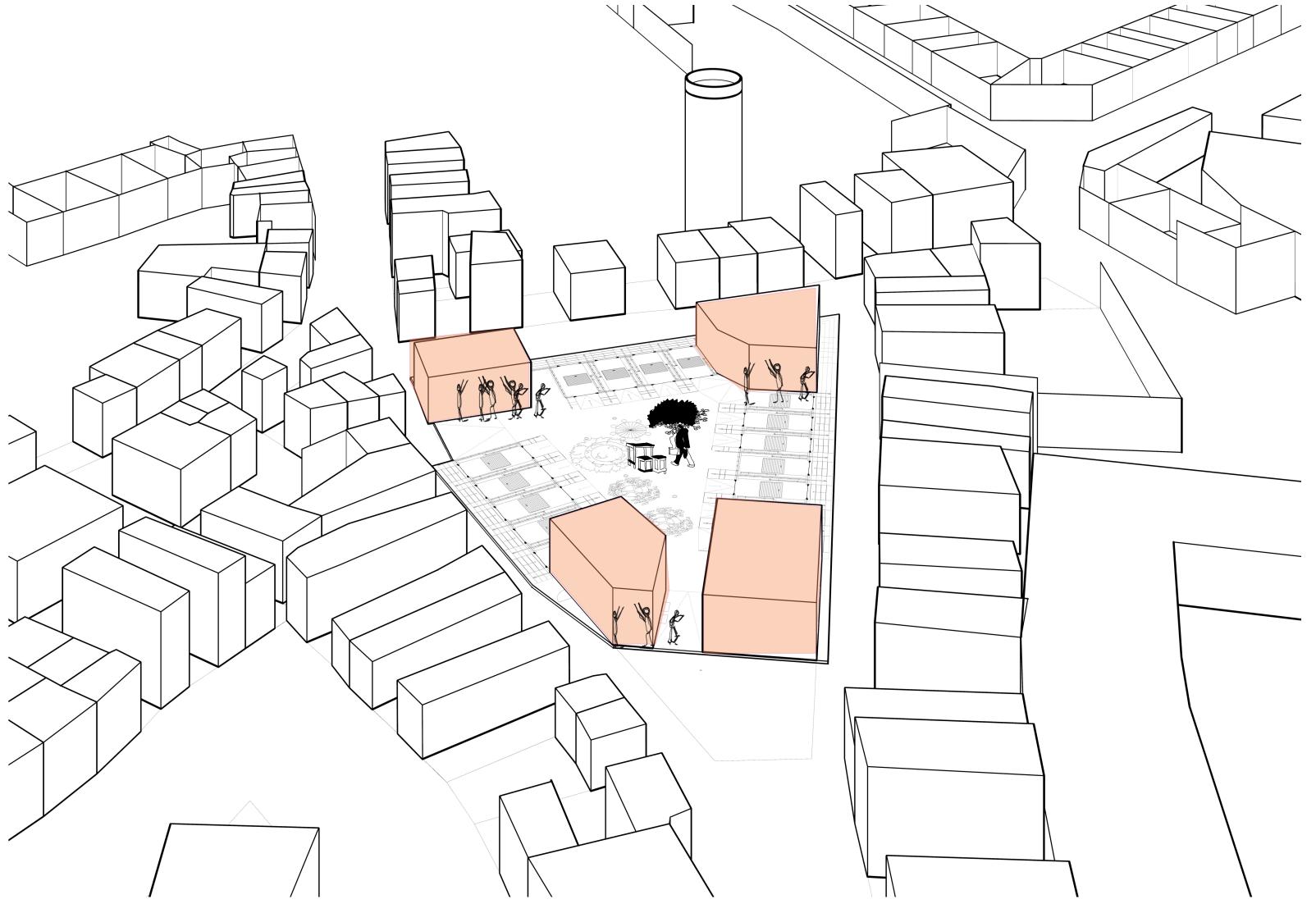
Municipality together with constructors check the situation at the market, collect data of shopowners, labels the materiality that have to be cleaned up immediately.



Shopowners, 'community leaders' will learn the ins and outs about the frame and how with the plywood connection it becomes resistant to earthquake vibrations.



The constructors built first the corner shops, toilets, exposition space and the kitchen. While doing this the community leaders learn how the frames are placed and work.



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Entrances



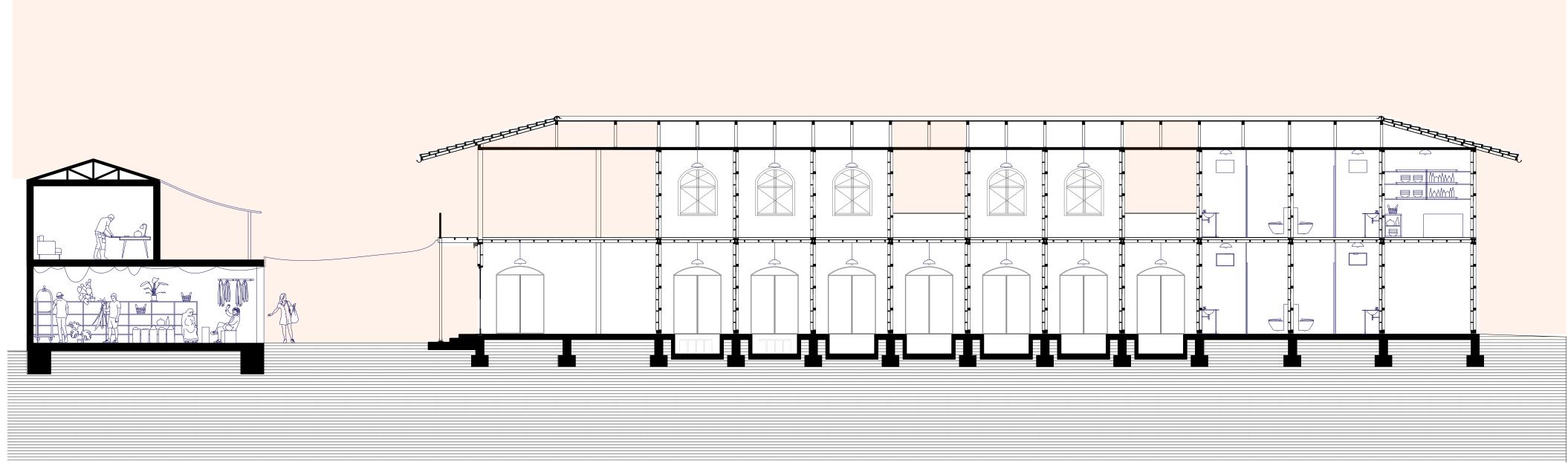




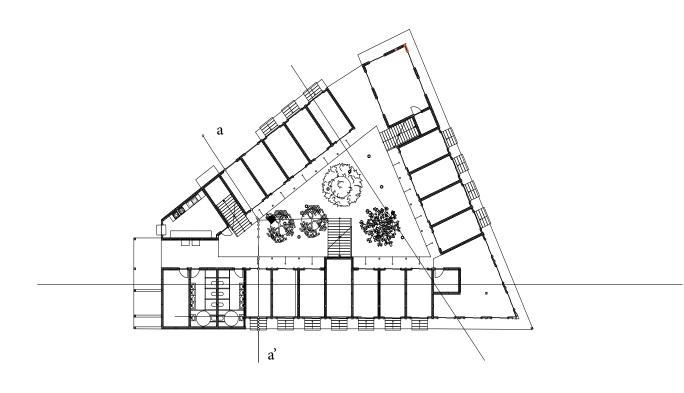




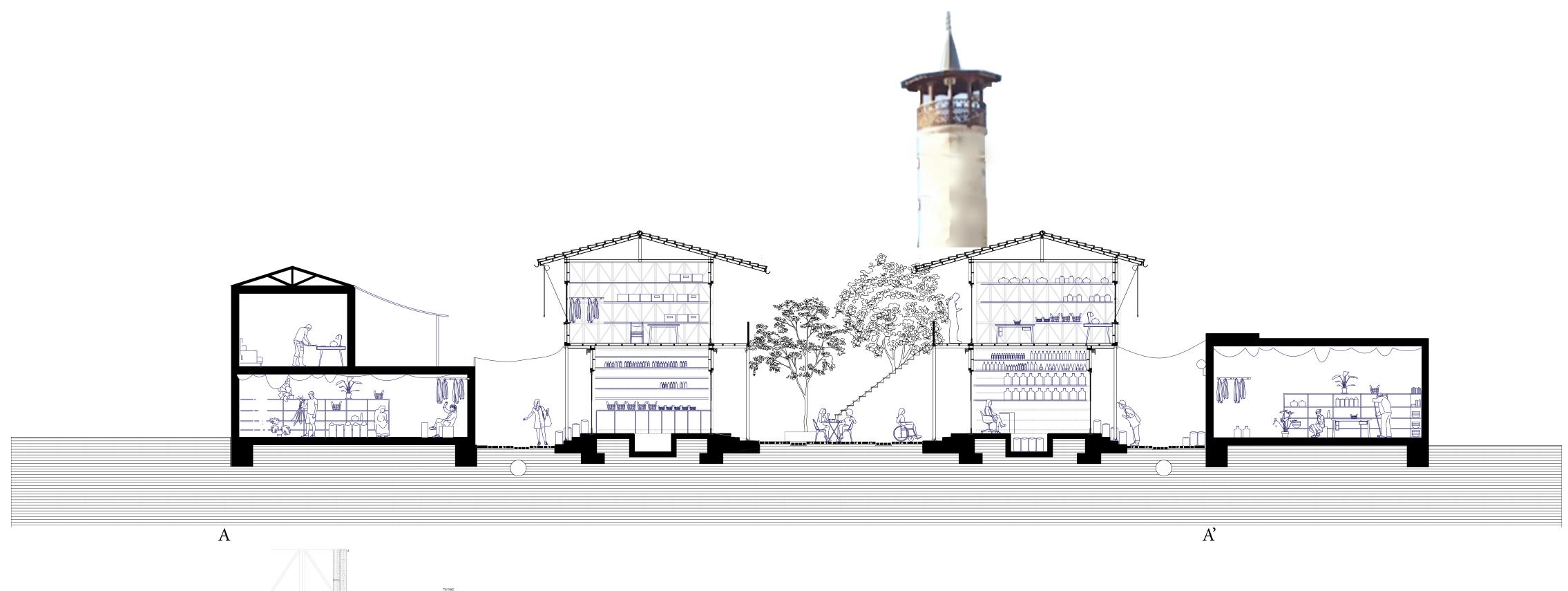
Section 1:100







Section 1:100

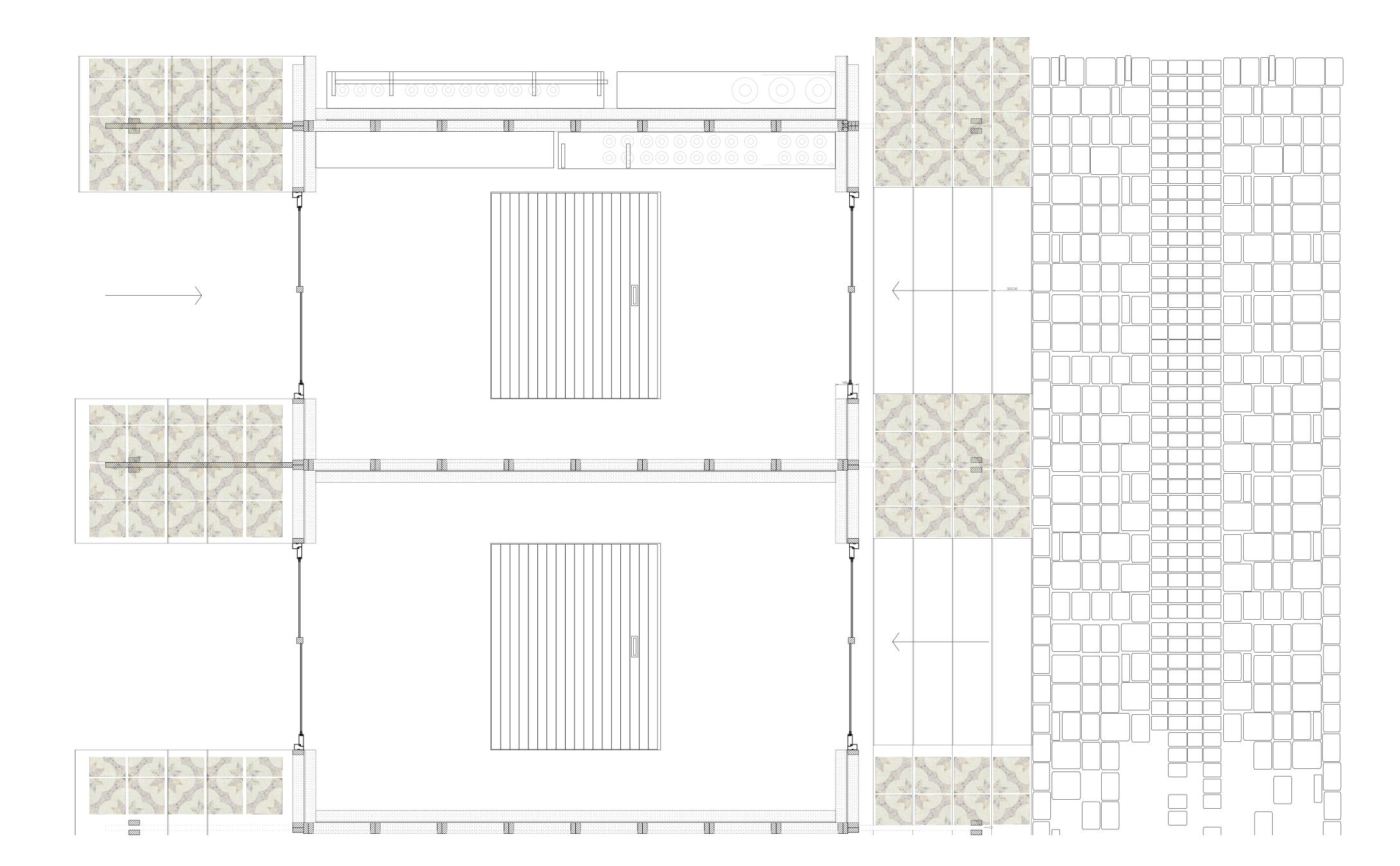




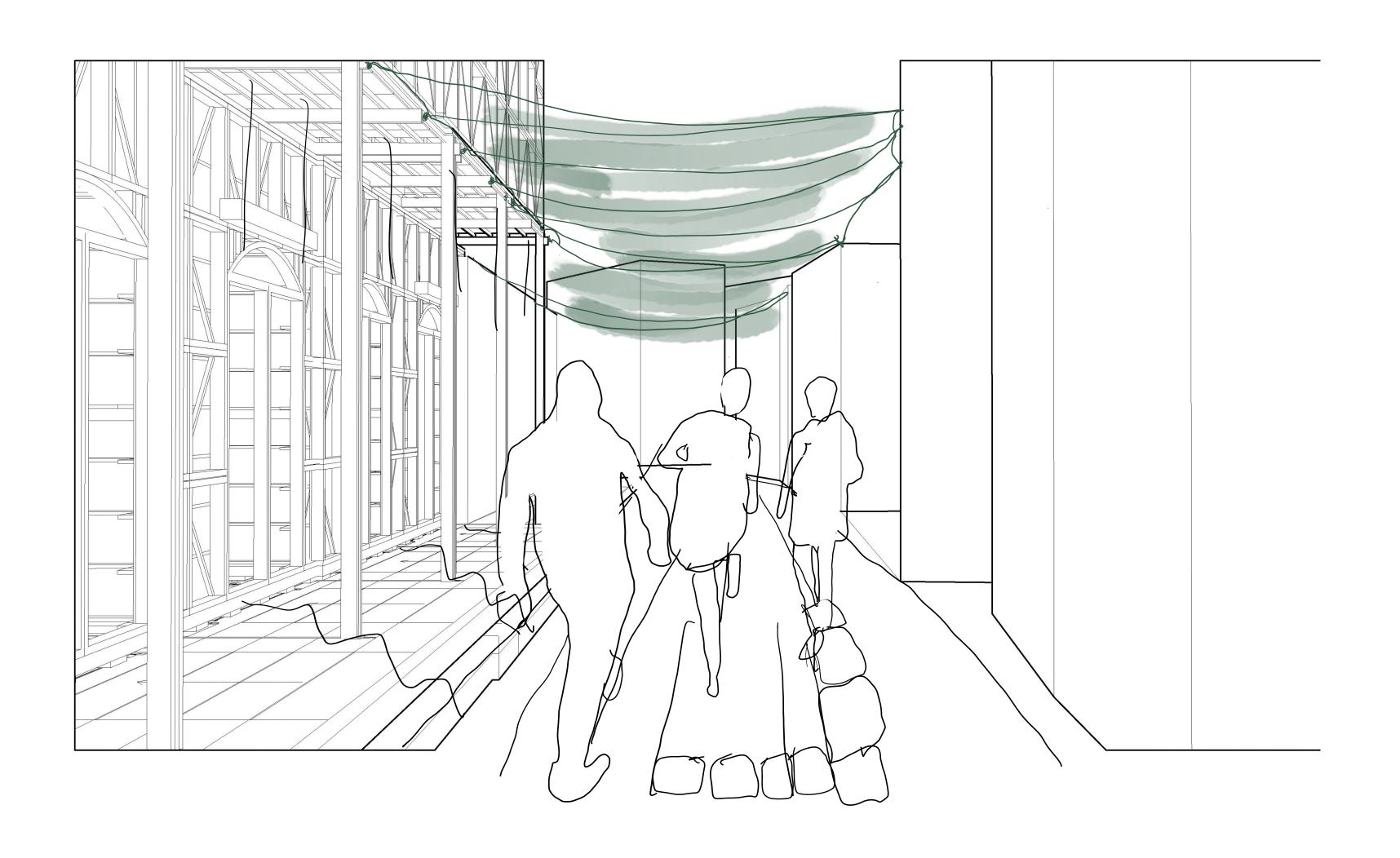
Façade 1:20



Shop 1:20

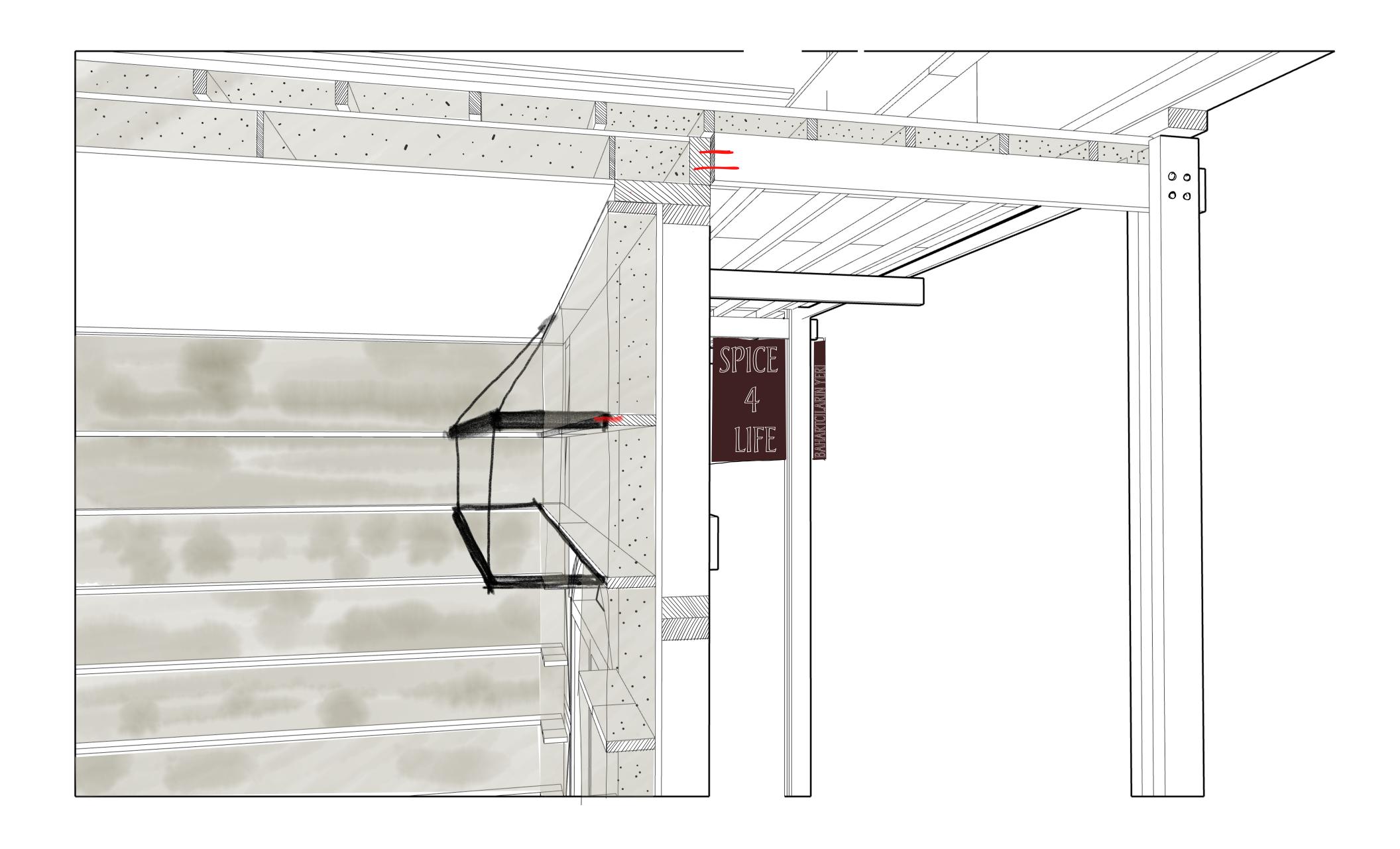


Connecting the streets

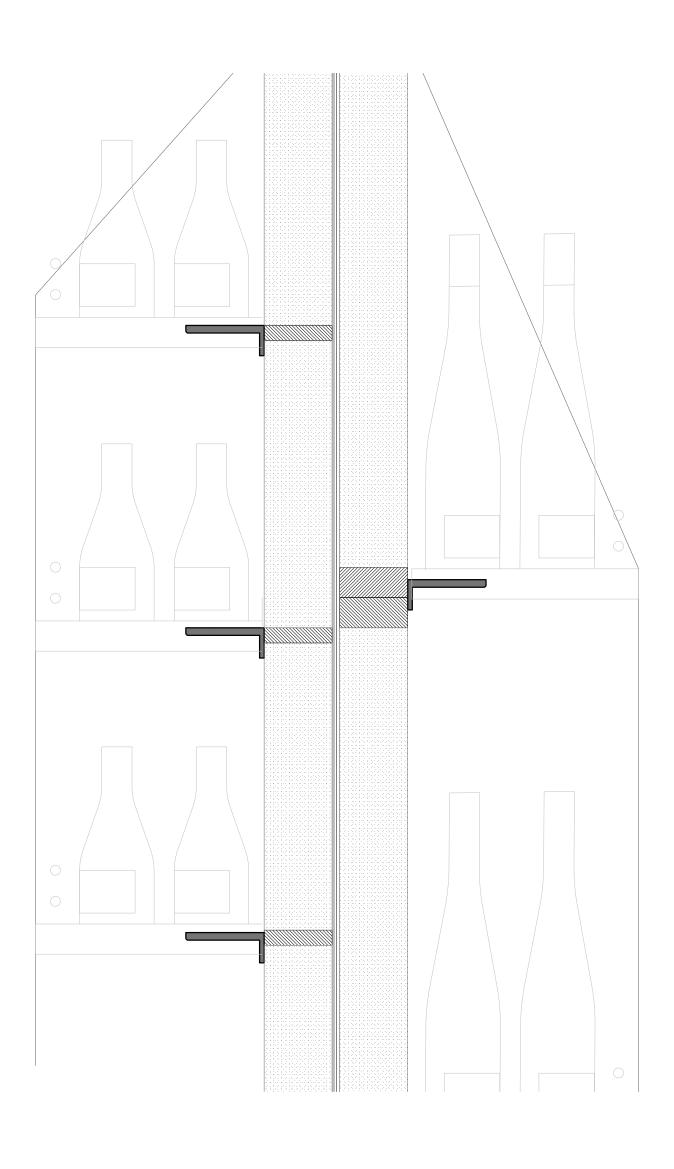


Flexible spatial adaptation.

Flexible spatial adaptation.

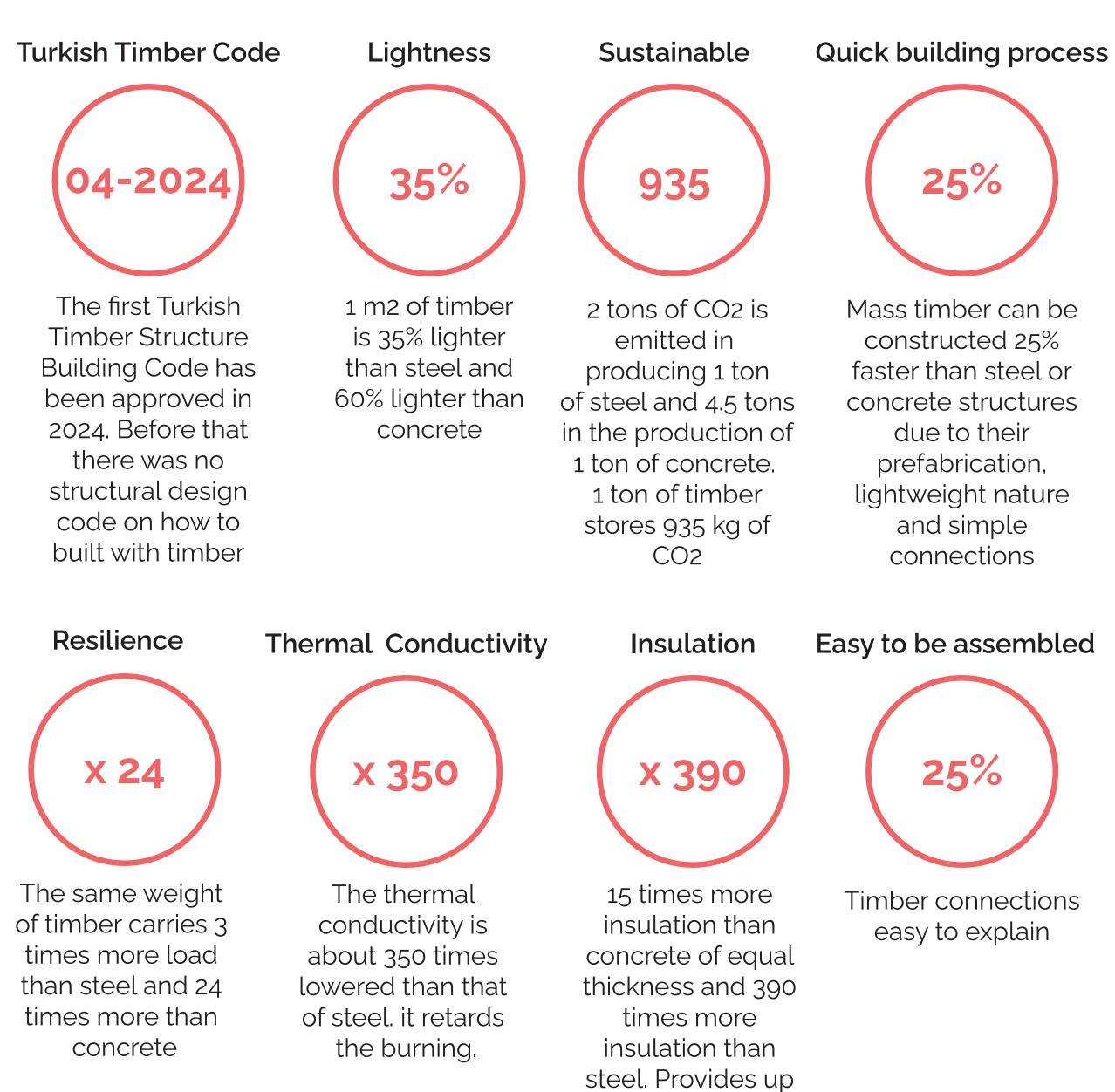


Detail 1:5 - shelfs



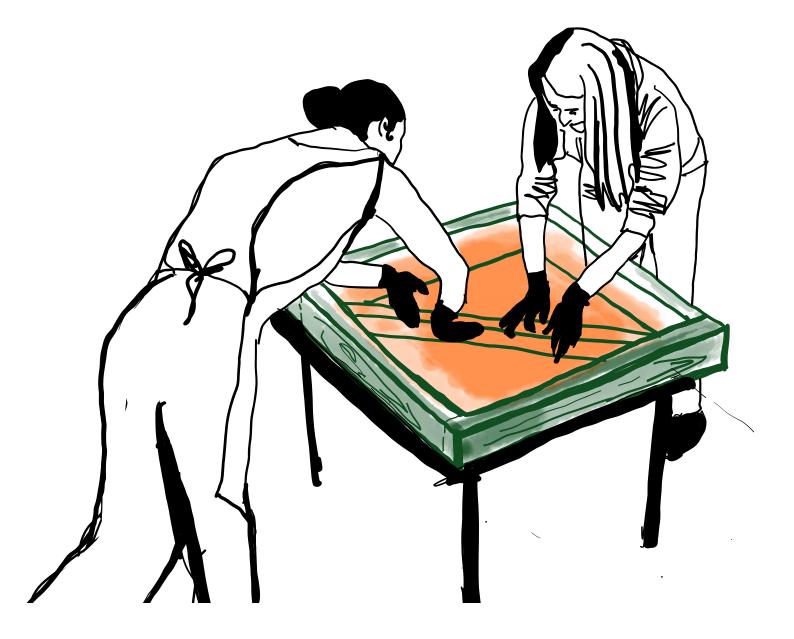
Materiality for memory anchor

Why Timber?

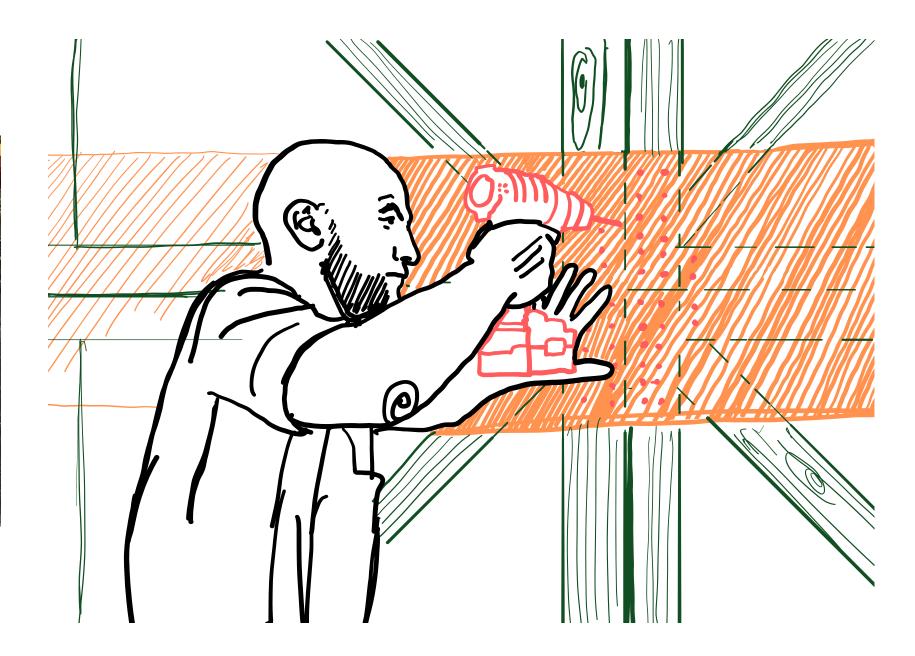


to 10% heat savings

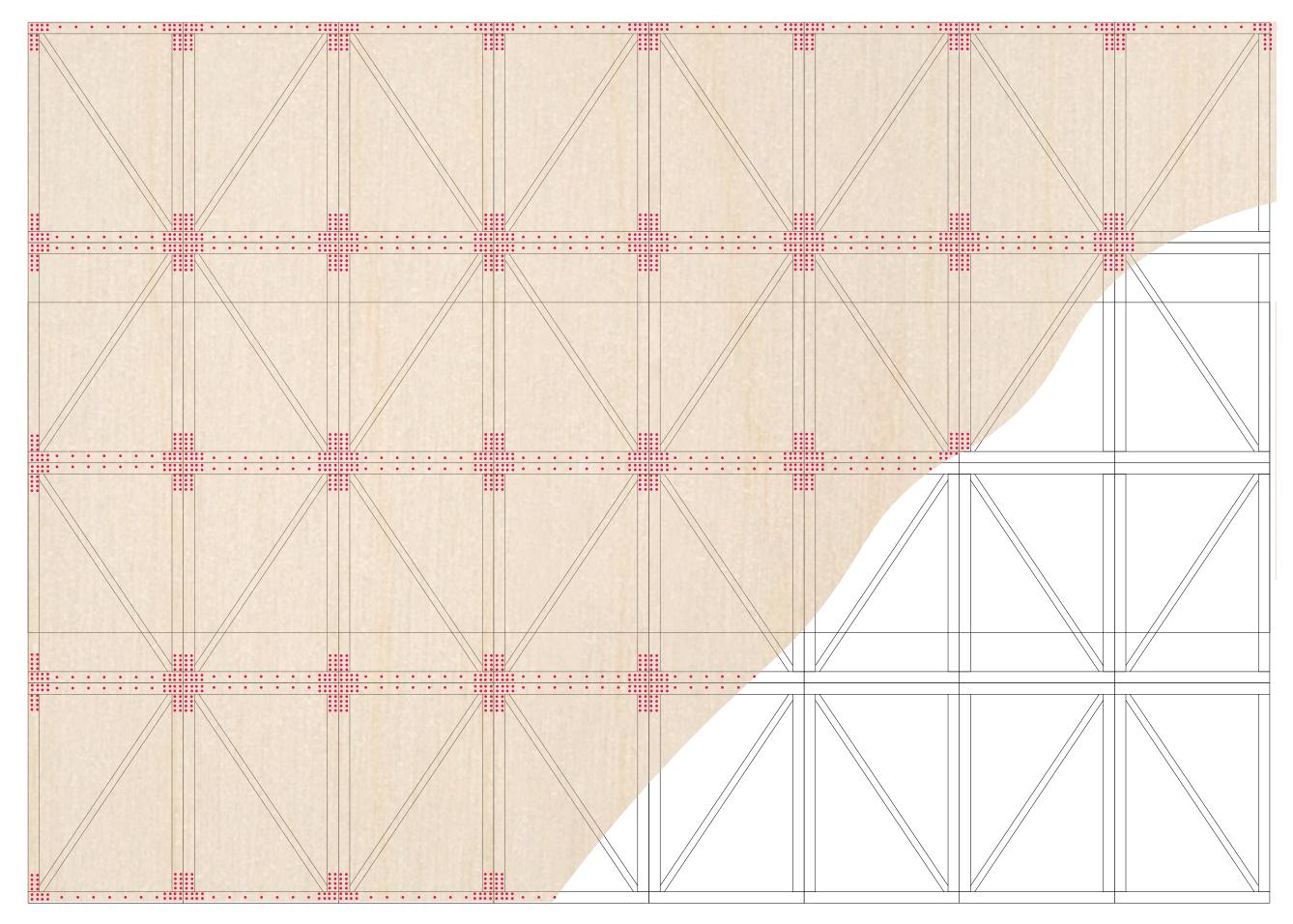
Building the elements



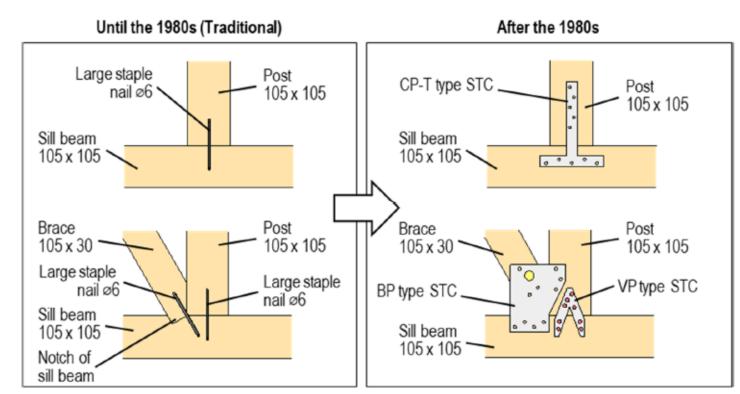




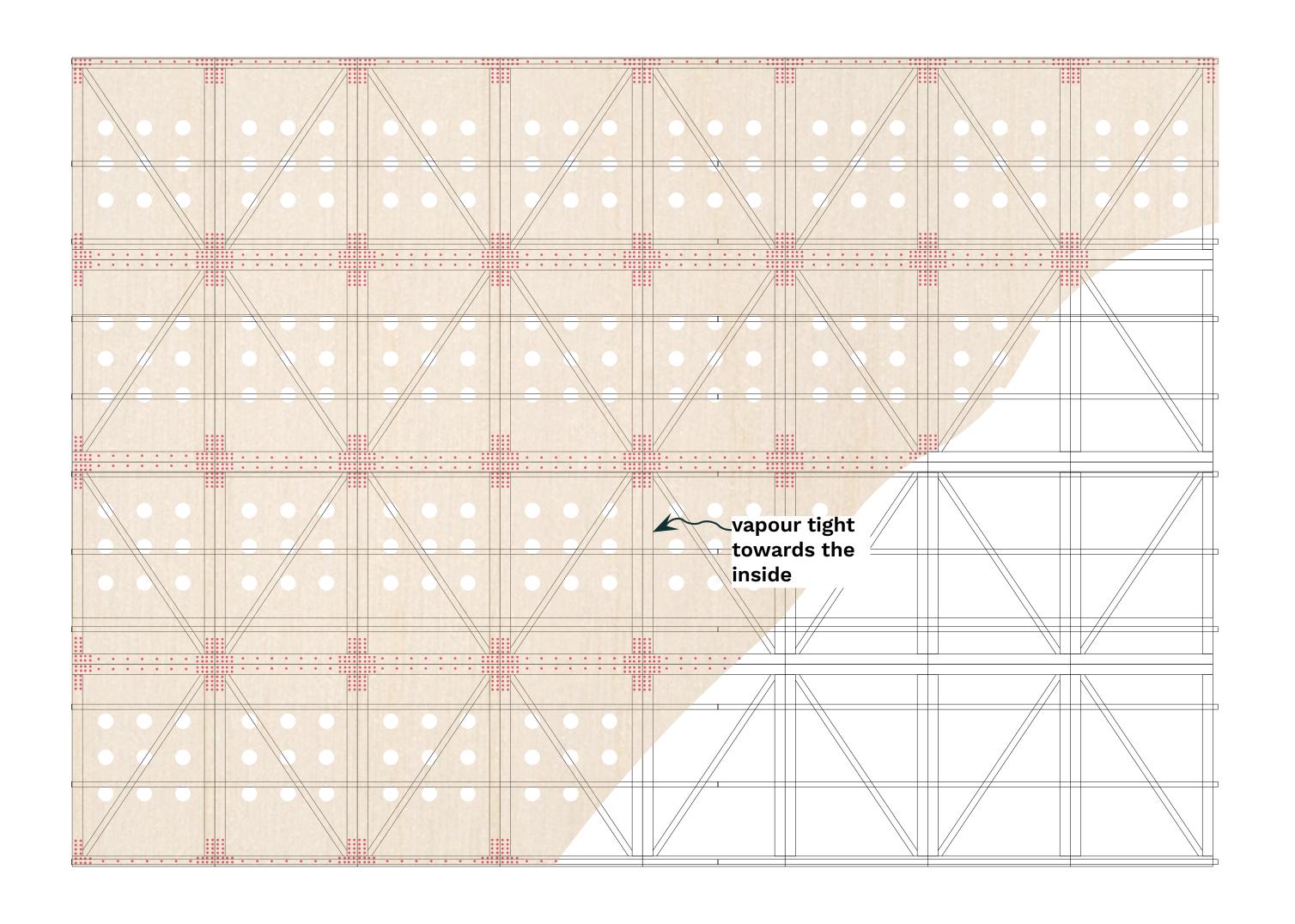
Earthquake resistant







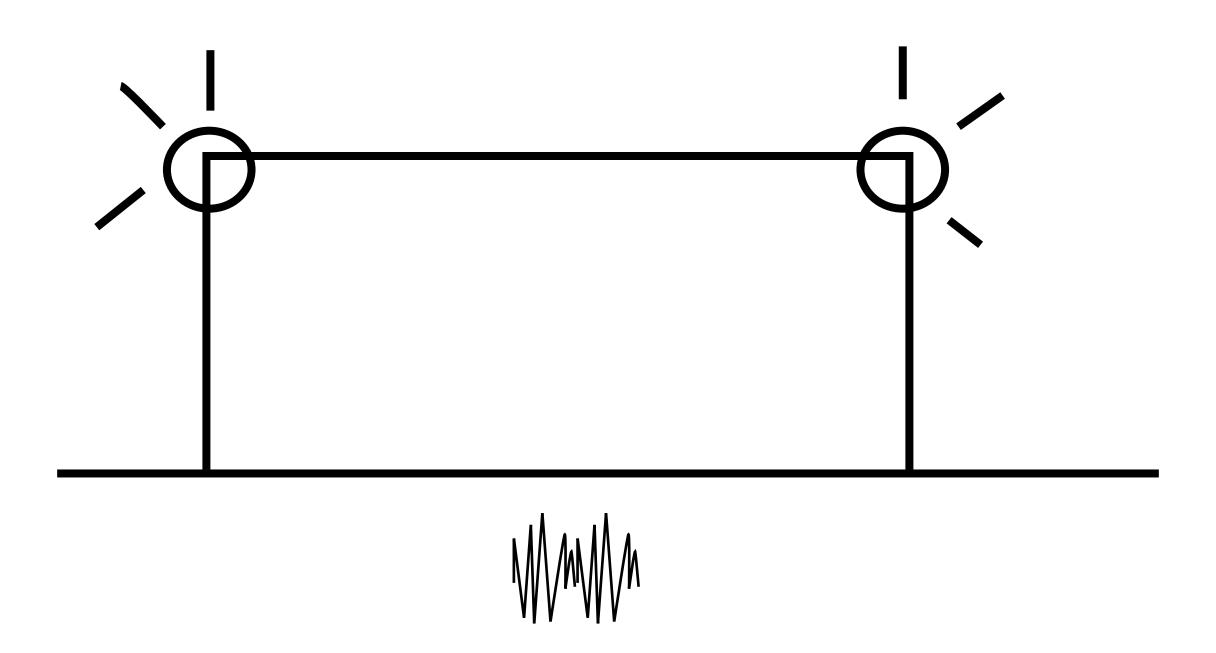
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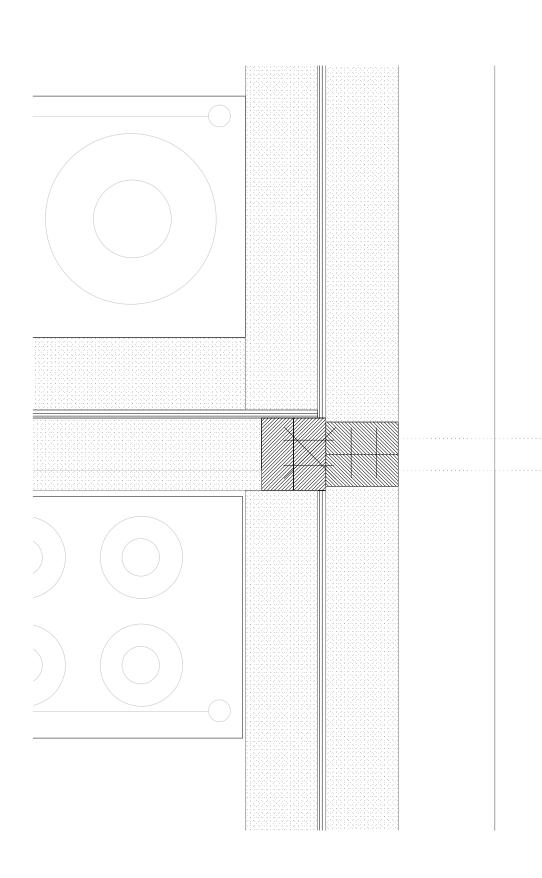




Earthquake resistant



Detail 1:5 - corner



Façade = showcase



Hayat: space for coming together.



Recap - Design goals

Resilience is not just about rebuilding - it is about reclaiming, adapting, and remembering. Uzun Çarsi's revival shows that community-driven adaptation, flexible space, shard social environments and material memory can create sustainable recovery without erasing the past.

Community-Driven
Construction

Flexible spatial adaptation

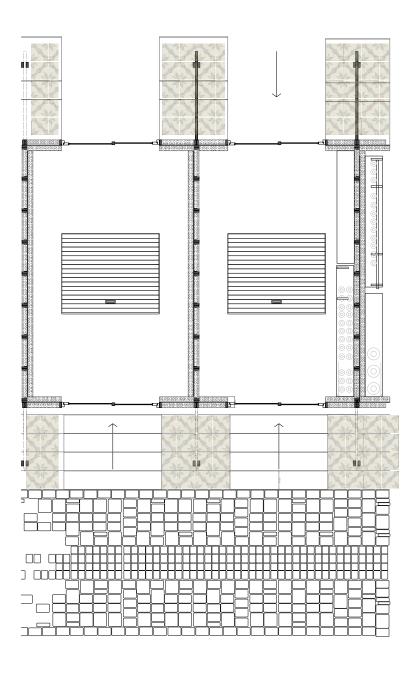
HAYAT: A space for coming together

Materiality as a memory anchor









Turning theory into practice with Architectural Recovery Team





Teşekkür ederim!

Thank you!

Dank je wel!