Embrace the Future Without Erasing the Past

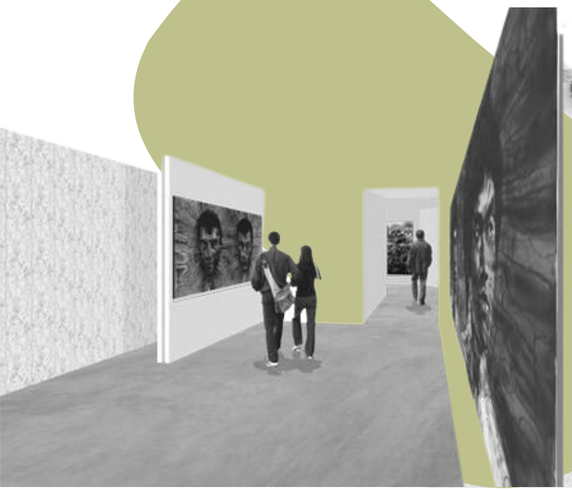
Preserving the identity of Küçükçekmece

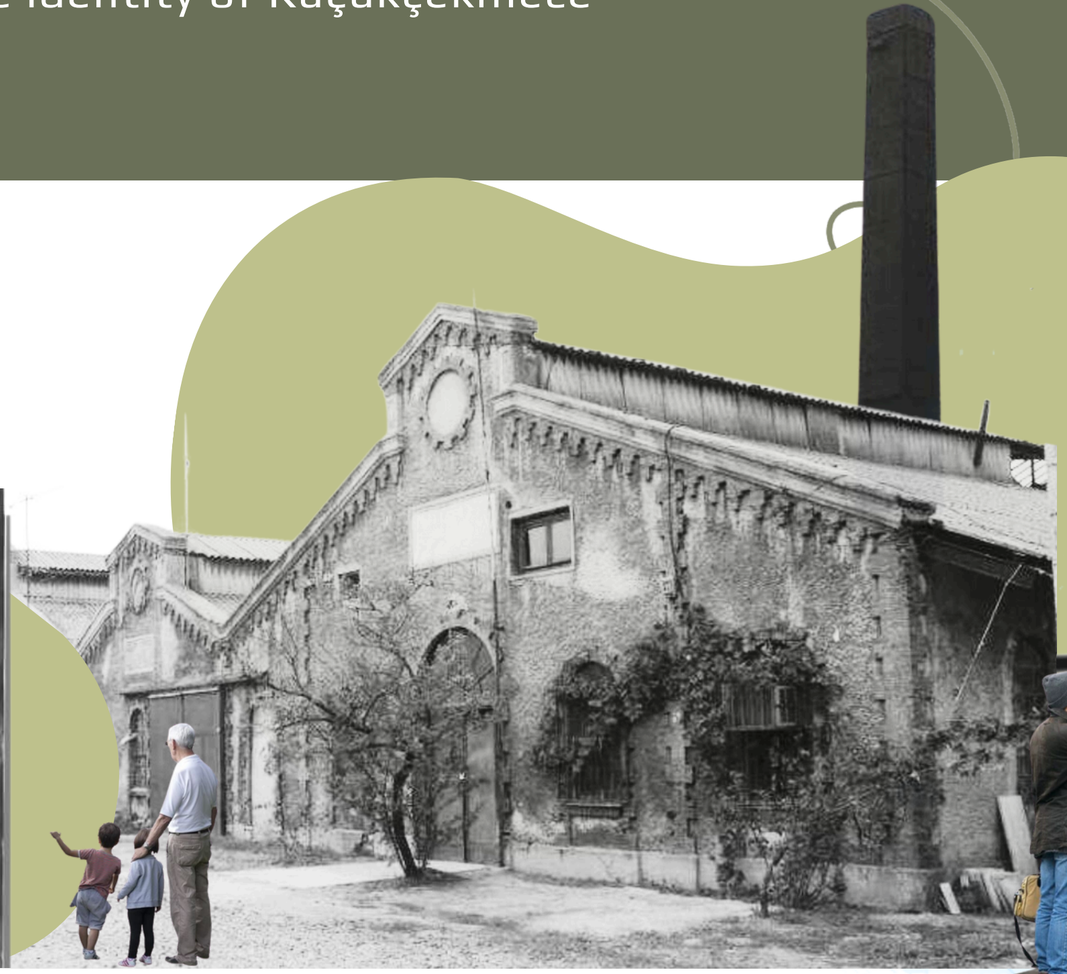
P5 - PRESENTATION

CITY OF THE FUTURE

PREPARED BY

Selin Bani







Embrace the Future Without Erasing the Past

How can design contribute to preserving and enhancing the cultural and historical identity of Küçükçekmece, while addressing the challenges of rapid urbanization and modernization?



Introduction | Problem Statement

"Küçükçekmece is under increasing pressure from rapid urbanization and large-scale development projects in Istanbul."

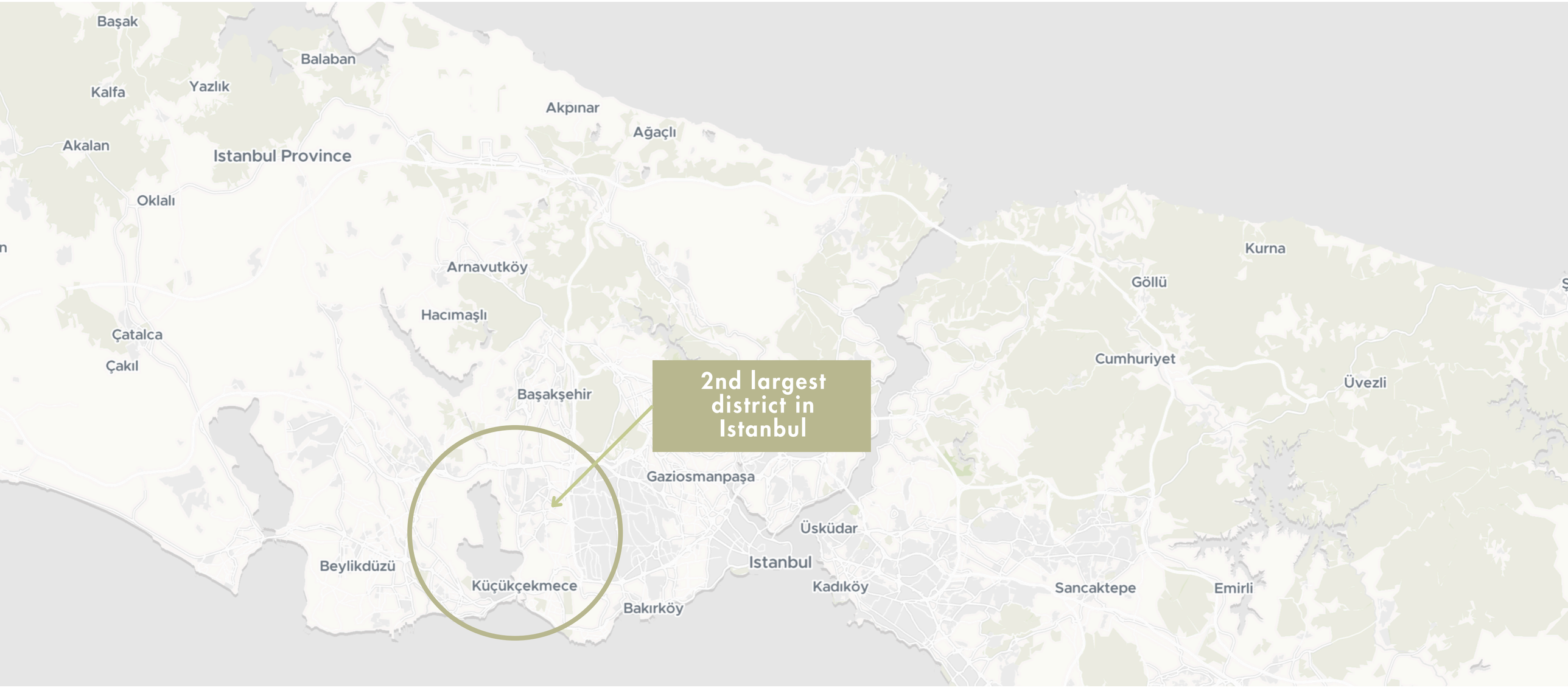
It's not about preventing it but about looking at how we can deal with it

CONTENT

1. **Introducing Küçükçekmece**
2. **Urban identity**
3. **Design**

Introducing: Küçükçekmece

Location | Küçükçekmece



Location | Küçükçekmece

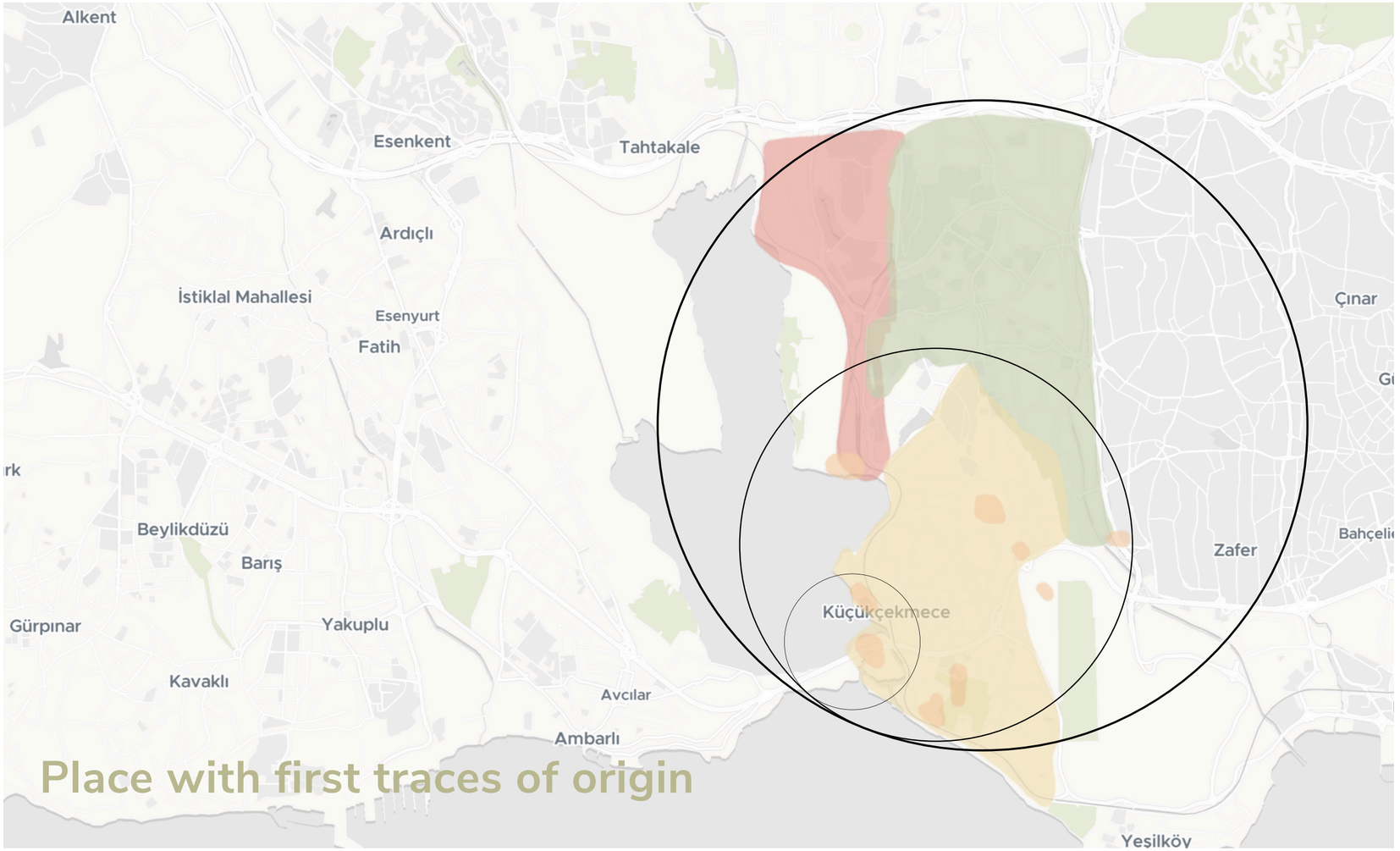
In past a village now an city





Location | Küçükçekmece

Evolution of Küçükçekmece



- Byzantine and Ottoman period
- Industrial period
- Migration
- Current developments

Location | Küçükçekmece

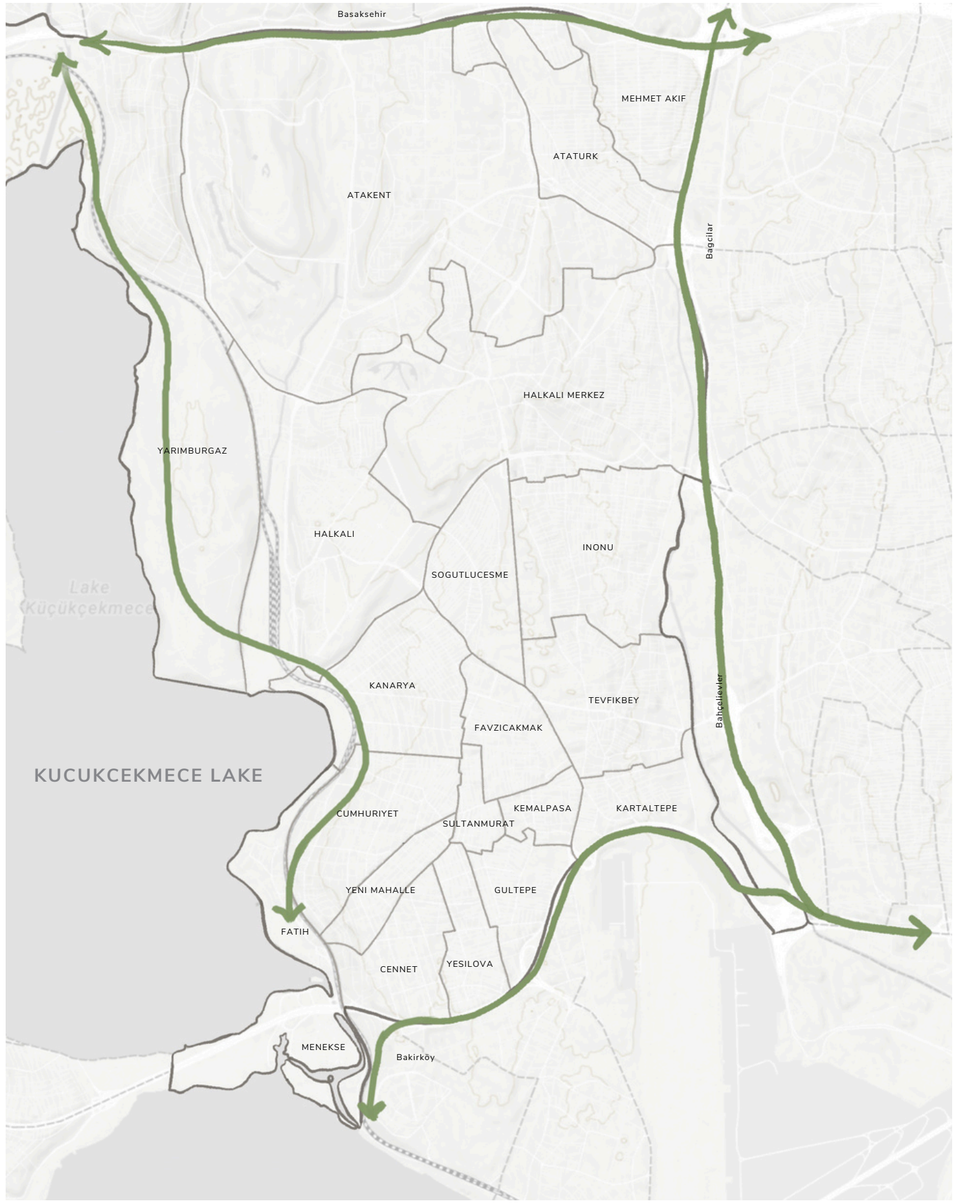
The neighbourhood: buildings











Influence urbanization | Küçükçekmece

Küçükçekmece now

789.633 Residents

Cosmopolitan city
- a lot of people from different backgrounds

Still urbanizing

Influence urbanization | Küçükçekmece

Problems that the inhabitants experience

Interviews / enquetes shows:

The 3 most important problems due Urbanization

- Transport
- Lack of parks and green spaces
- Environmental pollution

What is the neighbourhood missing?

- Employment
- Educational places
- Places for social activities

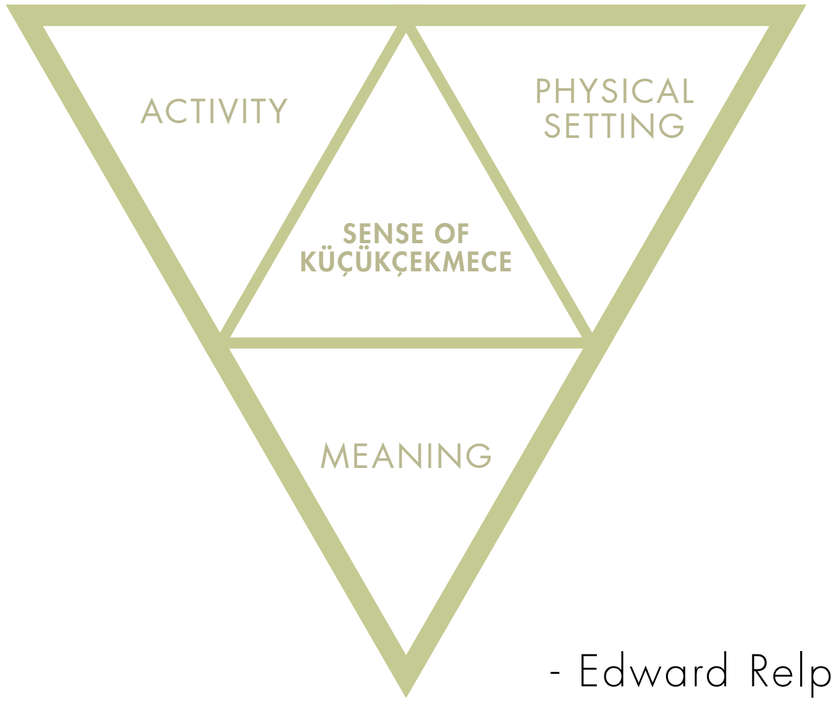
What kind of a district should Kucukcekmece be in the future?

- Learning centre
- Cultural and artistic activities center

Urban identity of Küçükçekmece

Urban Identity | Küçükçekmece

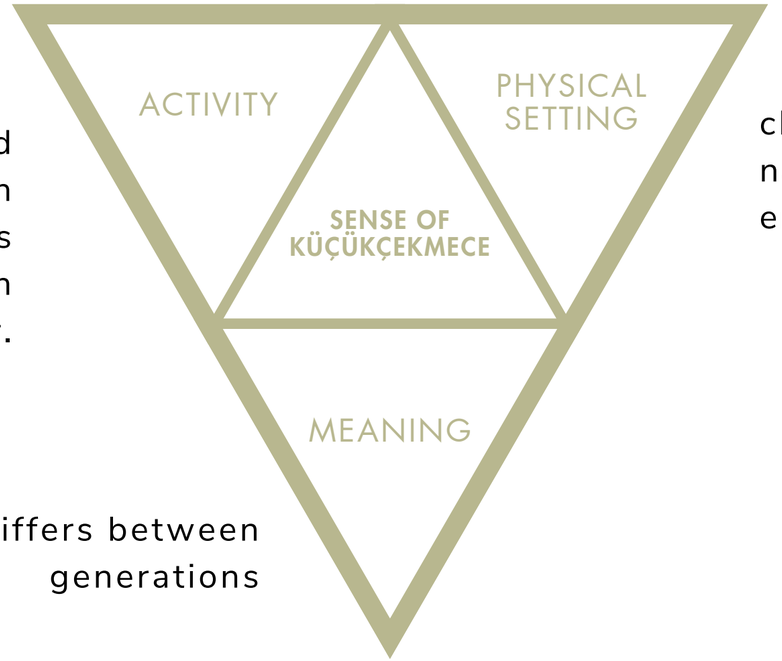
Urban identity is not just about the physical appearance of a place; it encompasses the collective memory, traditions, and values of the people who live there.



- Edward Relph

Unique combination of physical, historical, and cultural elements.

market visits and social interactions in public spaces strong connection with water.



characterized by its natural and built environment (the lake)

differs between generations

Urban Identity | Küçükçekmece

Place with first traces of origin

Identity is concentrated mainly in the historic centre on the lake — with its buildings, stories and public places.









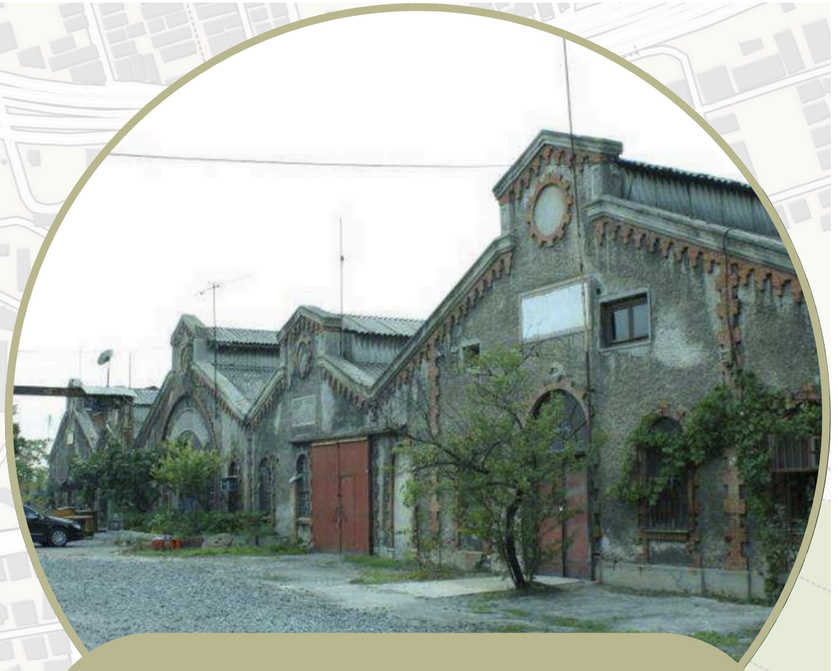






Unique historical building that has lost its original function within the neighbourhood

Built year: 1893



It is an area that bears the traces of the production culture and identity of Küçükçekmece.

Menekşe Match Factory

Küçükçekmece: rapidly developing area

Goal: Protect & Connect

Protect & preserve the historical area & identity

Connect the inhabitants

Designing a learning community hub

Menekşe Neighbourhood

Historical centre



A learning community hub



Learn



Discover



Relax



Enjoy

Learning community hub

Küçükçekmece, Menekşe

Design Location

Menekşe Neighbourhood

Historical centre



Site | Menekşe

Design concept

- Adaptive reuse of the Menekşe Match factory
- Urban design strategies that support activating the identity
- Architecture that makes elements of identity visible
- Integration of indoor and outdoor spaces for learning, making, meeting

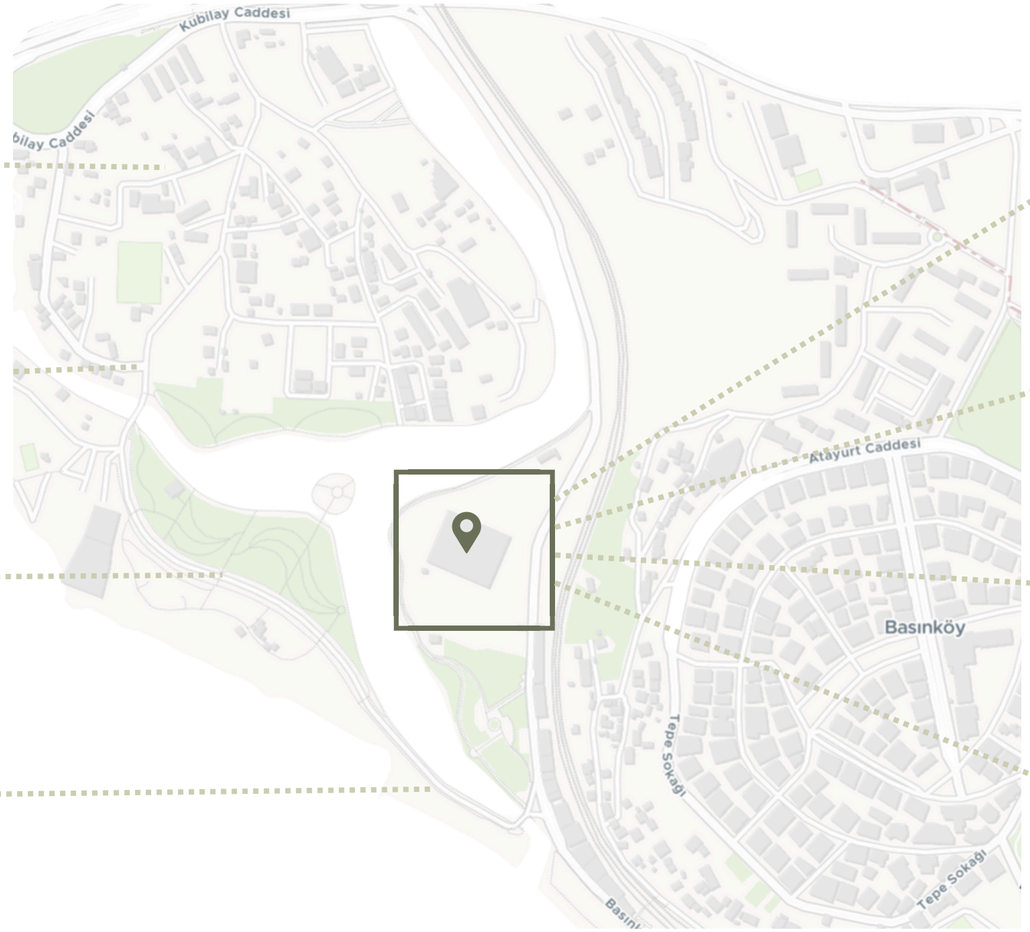


Site | Menekşe

Qualities of the location

Menekşe

- Protected area
- Informal urbanism
- Waterfront
- Parks and Recreation



Menekşe Match Factory

- Green Space
- Location
- Spatial Potential
- Historical Value









Site | Menekşe

Main issues

Influence of urbanization on the site



Transport



Accesibility



Disconnection



Underutilized space

Urban Strategies | Transport

Transport



Basınköy

Connection with Basinköy

Urban Strategies | Accesibility



Urban Strategies | Disconnection

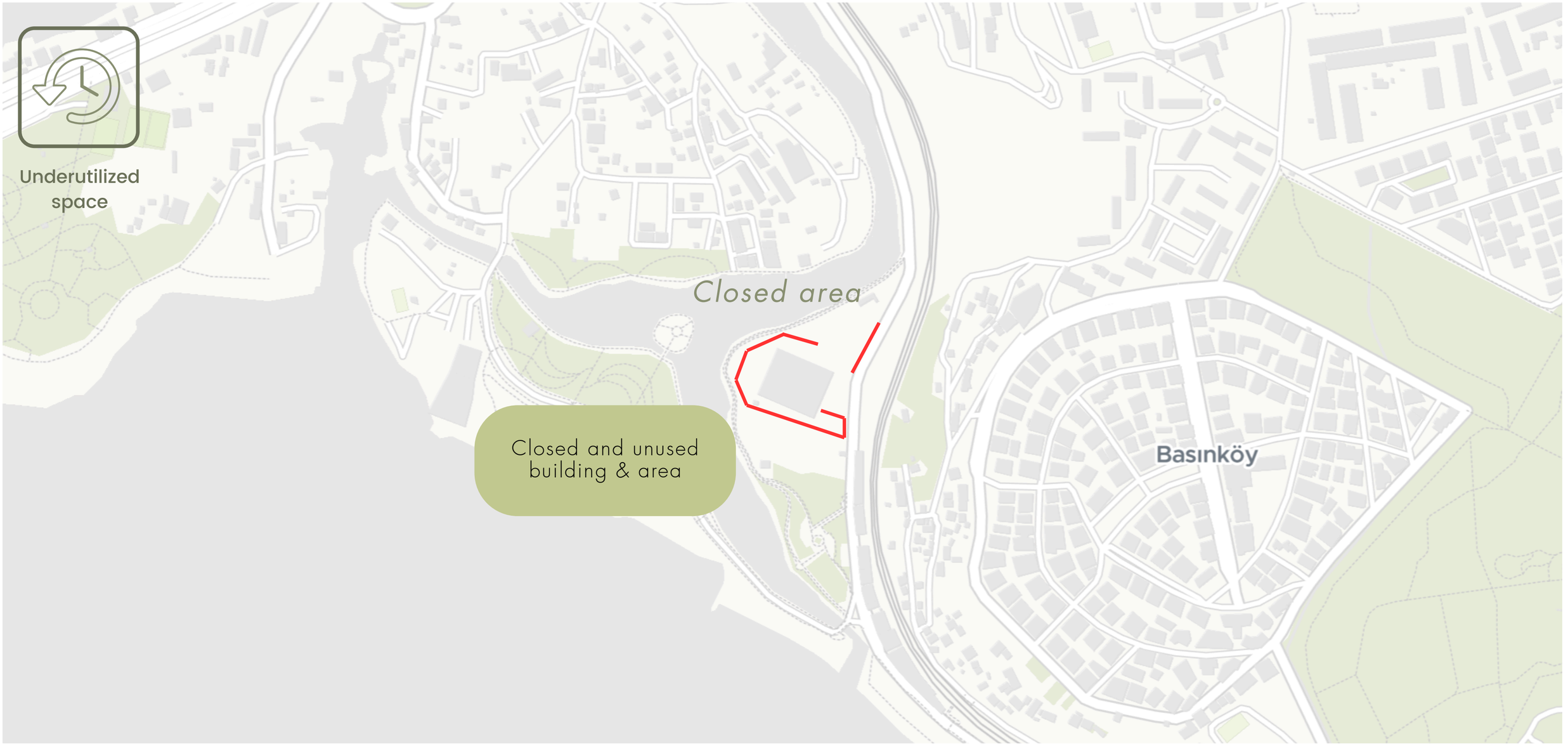
Disconnection

Disconnected gardens with vegetables grown by residents



Basınköy

Urban Strategies | Underutilized space



Urban Strategies

Küçükçekmece, Menekşe



Making the place accessible restores its meaning

Identity is preserved not just by conserving buildings, but by integrating them into daily life.

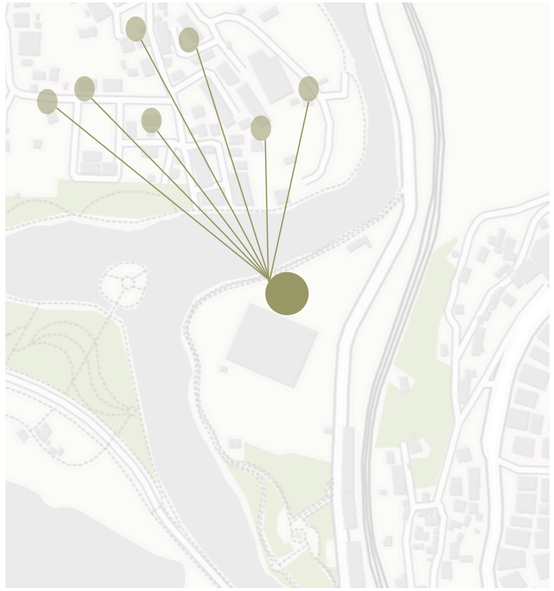
Urban Strategies | Supporting identity

Urban Strategies that support activating the identity



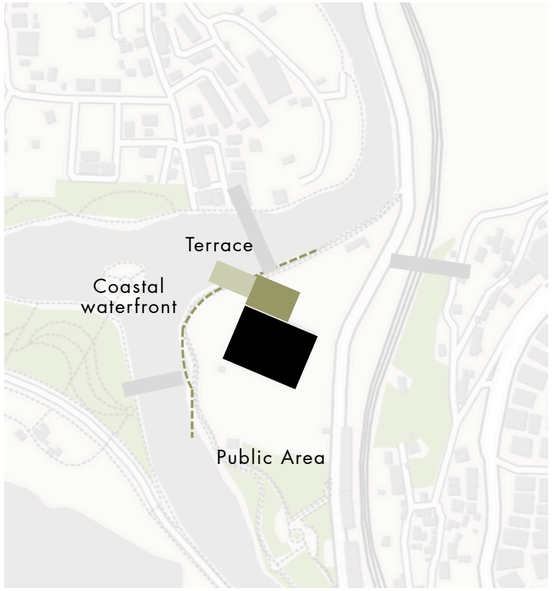
Accesibility

- Shorter walking route
- Uninterrupted pedestrian flow
- Connected neighbourhoods



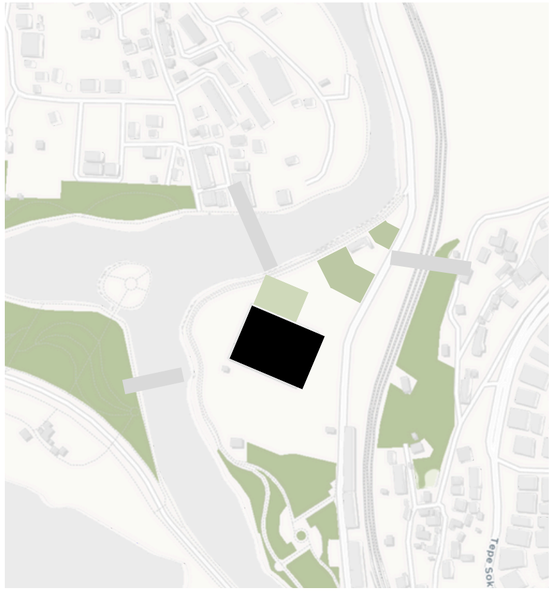
Urban gardens

- Creating Urban gardens for the neighbourhood
- To grow, sell, and use their own vegetables in a local market and restaurant.



Area Activating

- Creating outdoor spaces/parks
- Connecting the area with water through architecture
- Reuse existing building

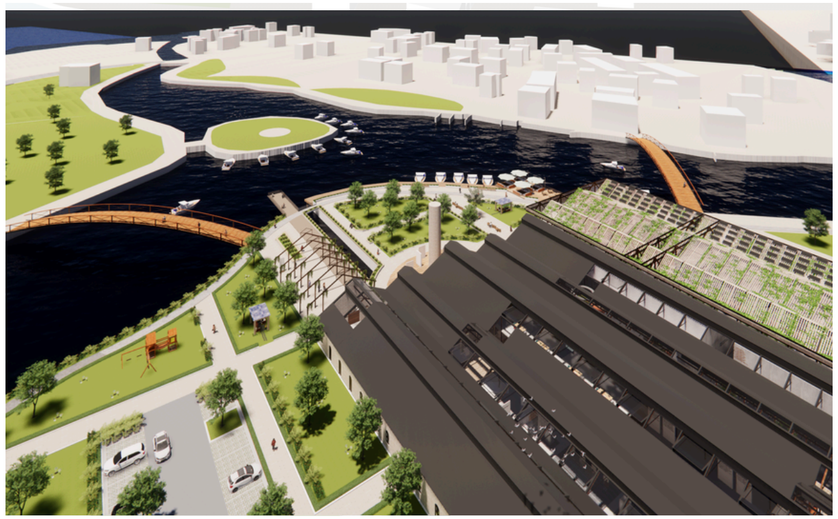


Greenery

- New volume extending the green line
- Connecting parks

Urban Strategies | Supporting identity

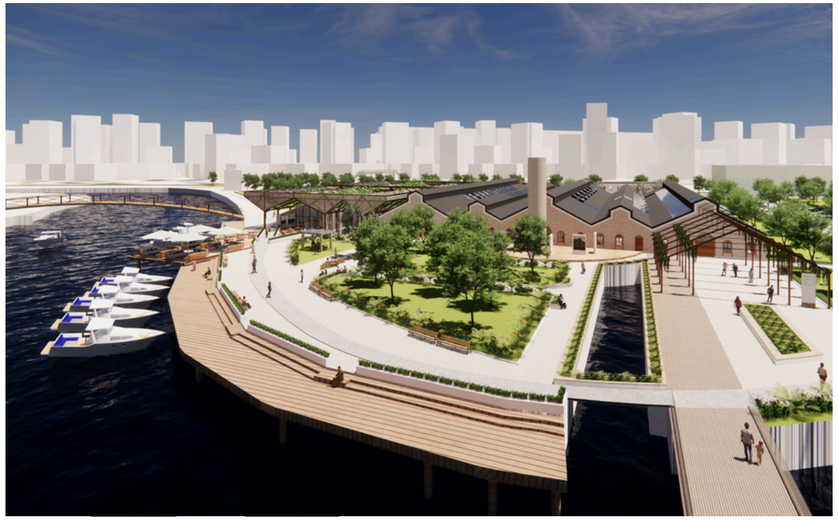
Urban Strategies that support activating the identity



Accesibility



Urban gardens



Area activating



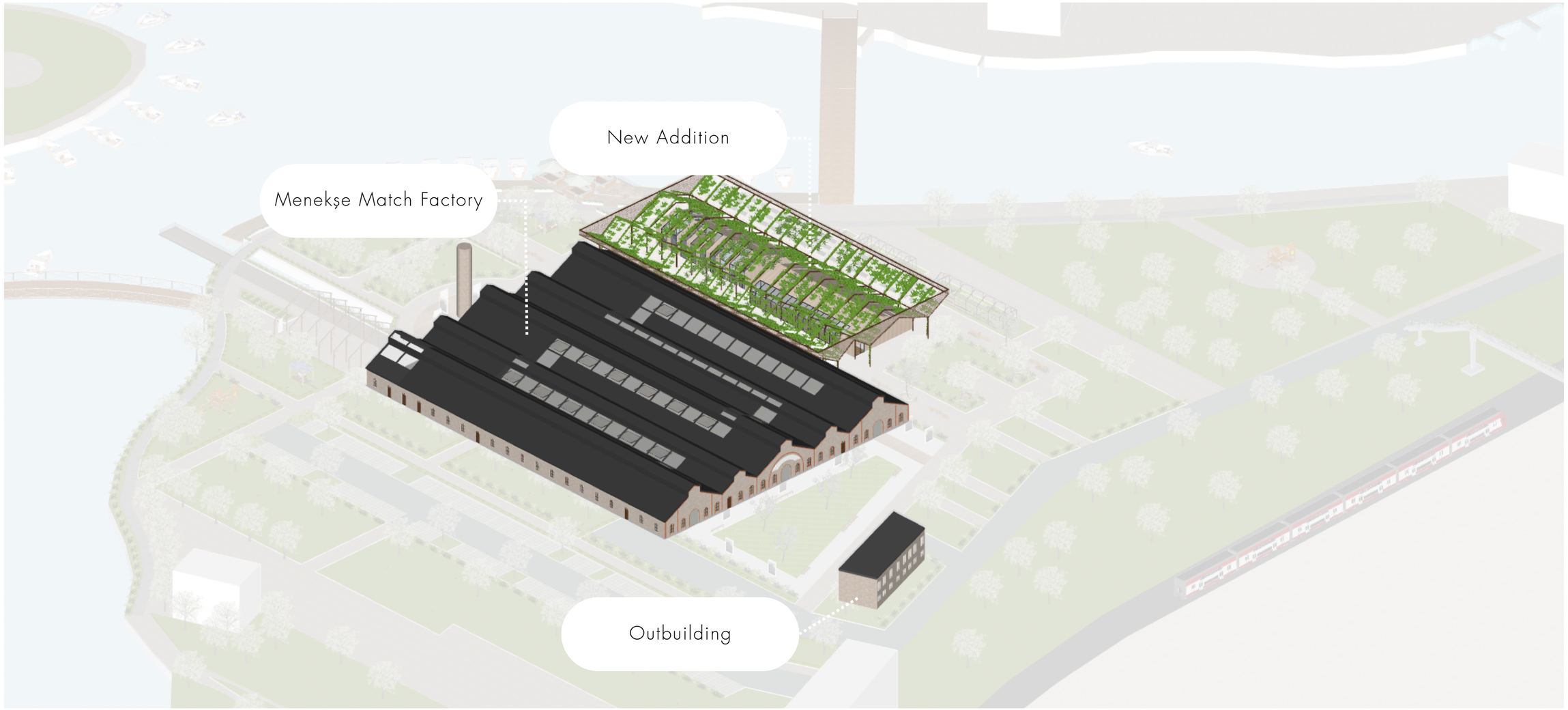
Greenery

Architectural Design: combining reuse and addition

Küçükçekmece, Menekşe

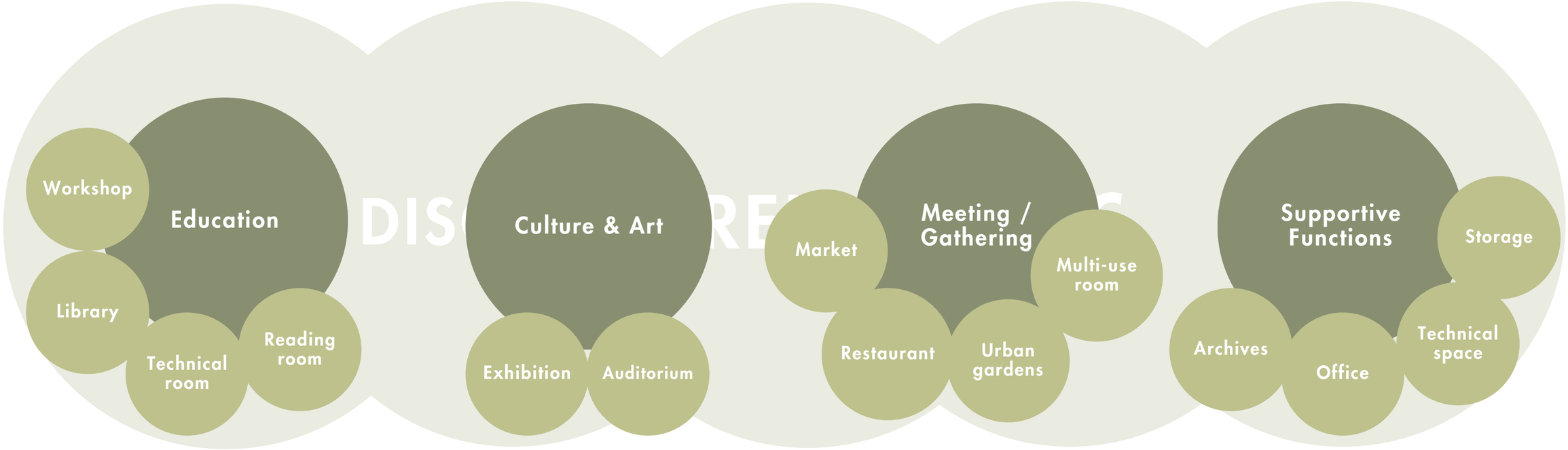
Designing a learning community hub

Combining reuse and addition



Learning community hub | Functions

Functions out of the needs of inhabitants



Public

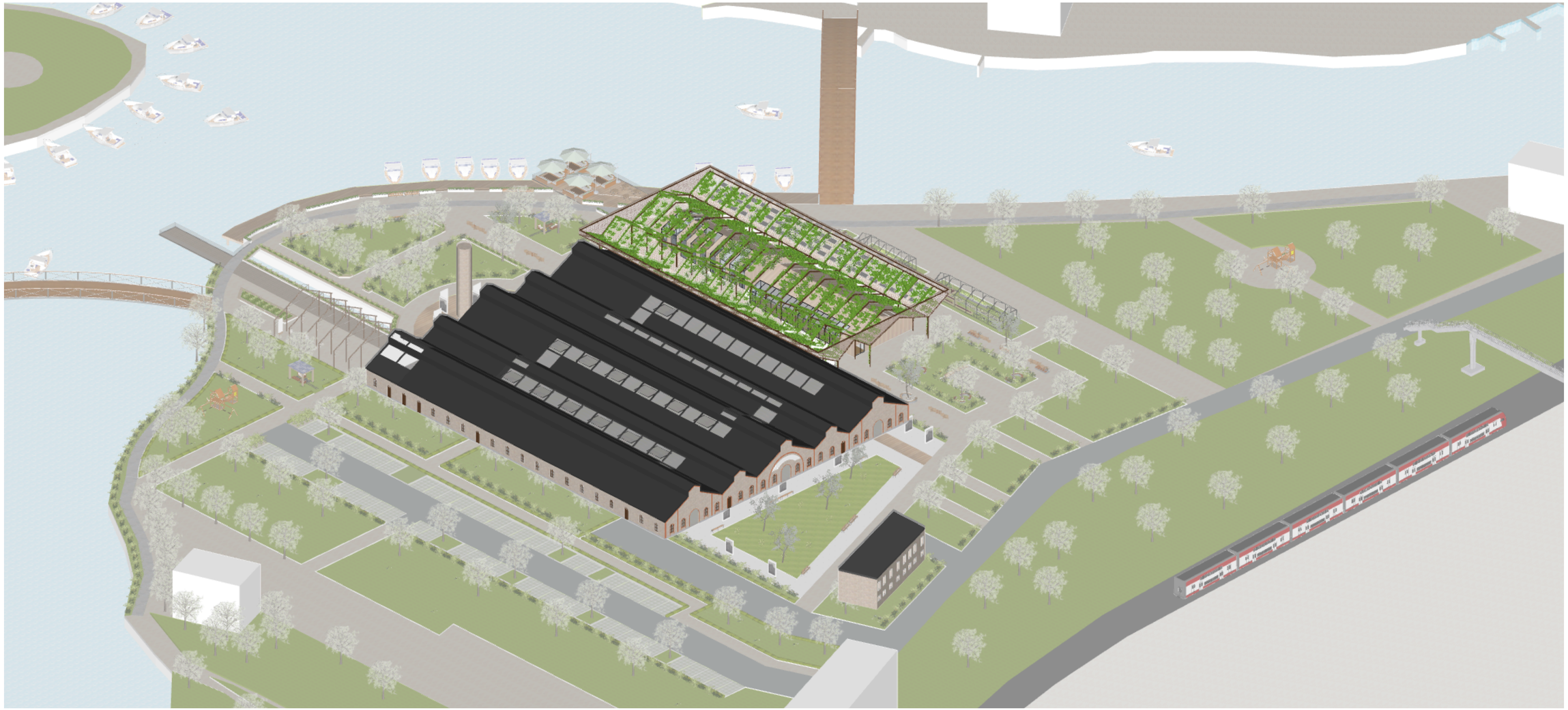
Semi-Public

Semi-Public

Private

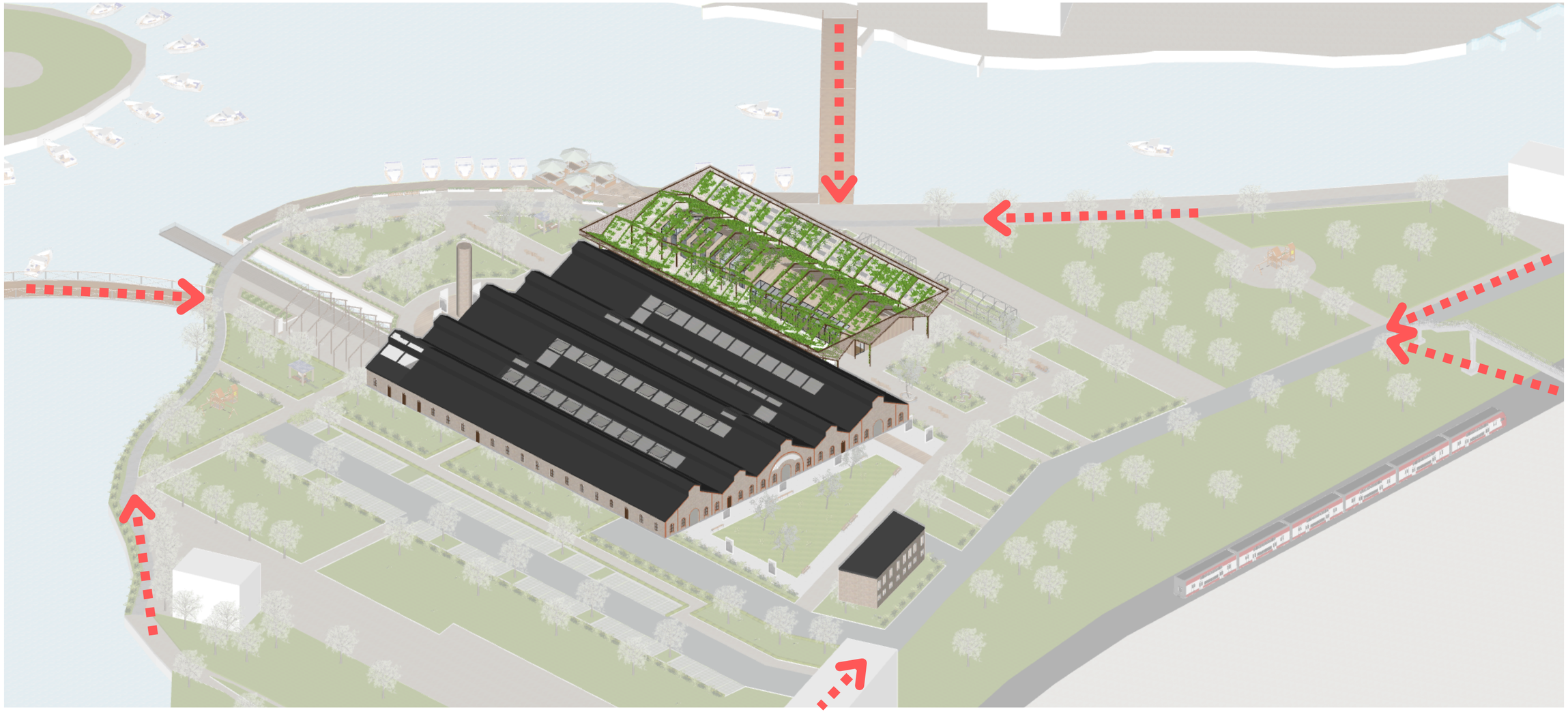
Learning community hub | Site

Overview of the site



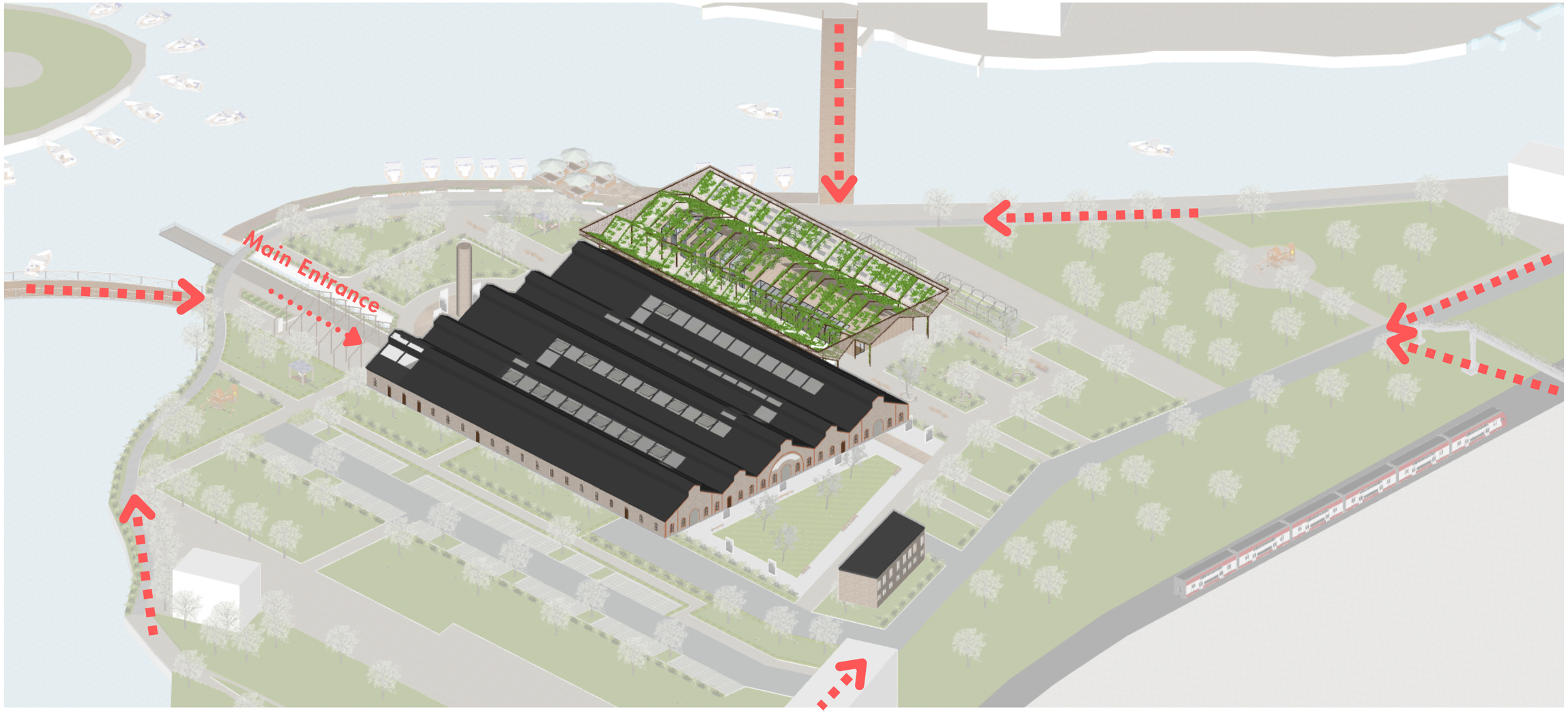
Learning community hub | Site

Flow of the site that is activated



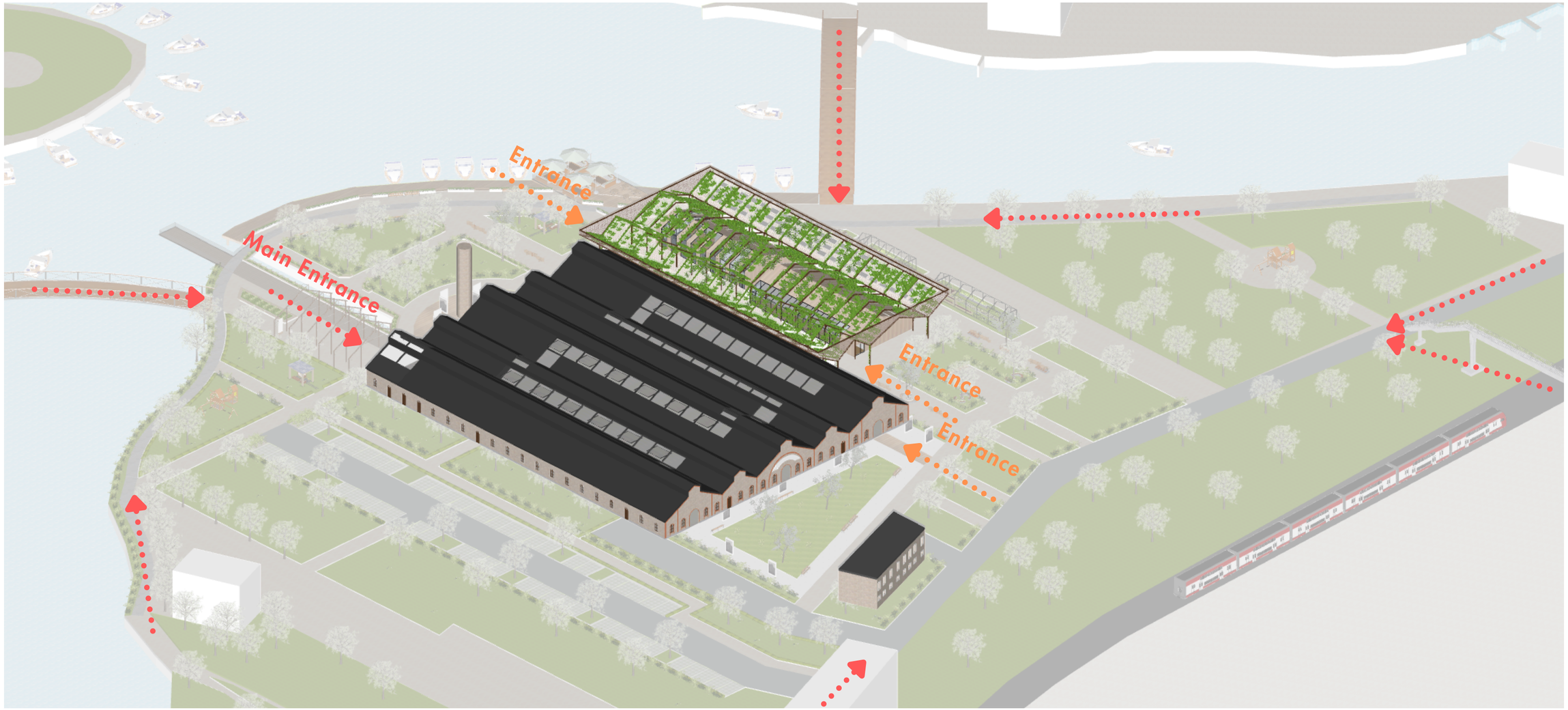
Learning community hub | Site

Flow of the site that is activated



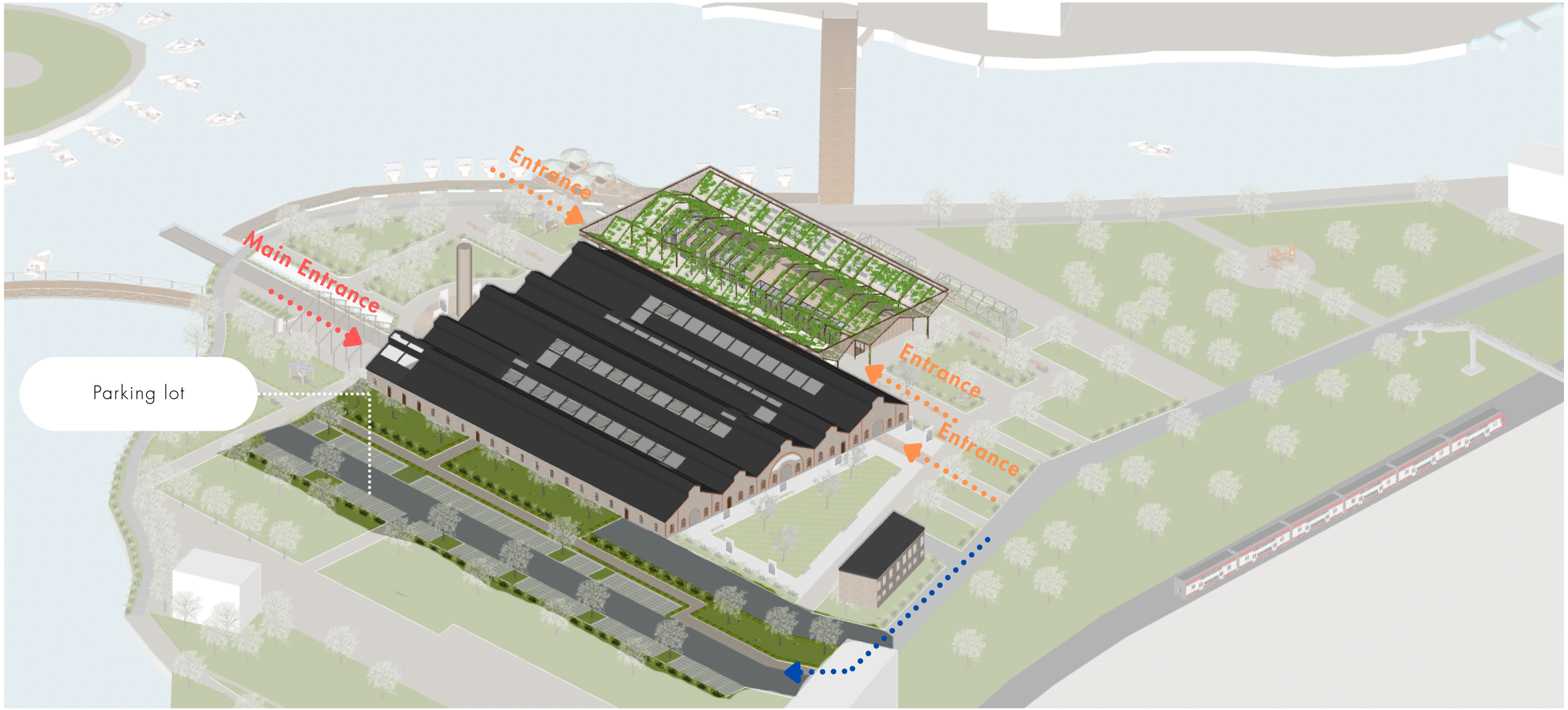
Learning community hub | Site

Entrances buildings



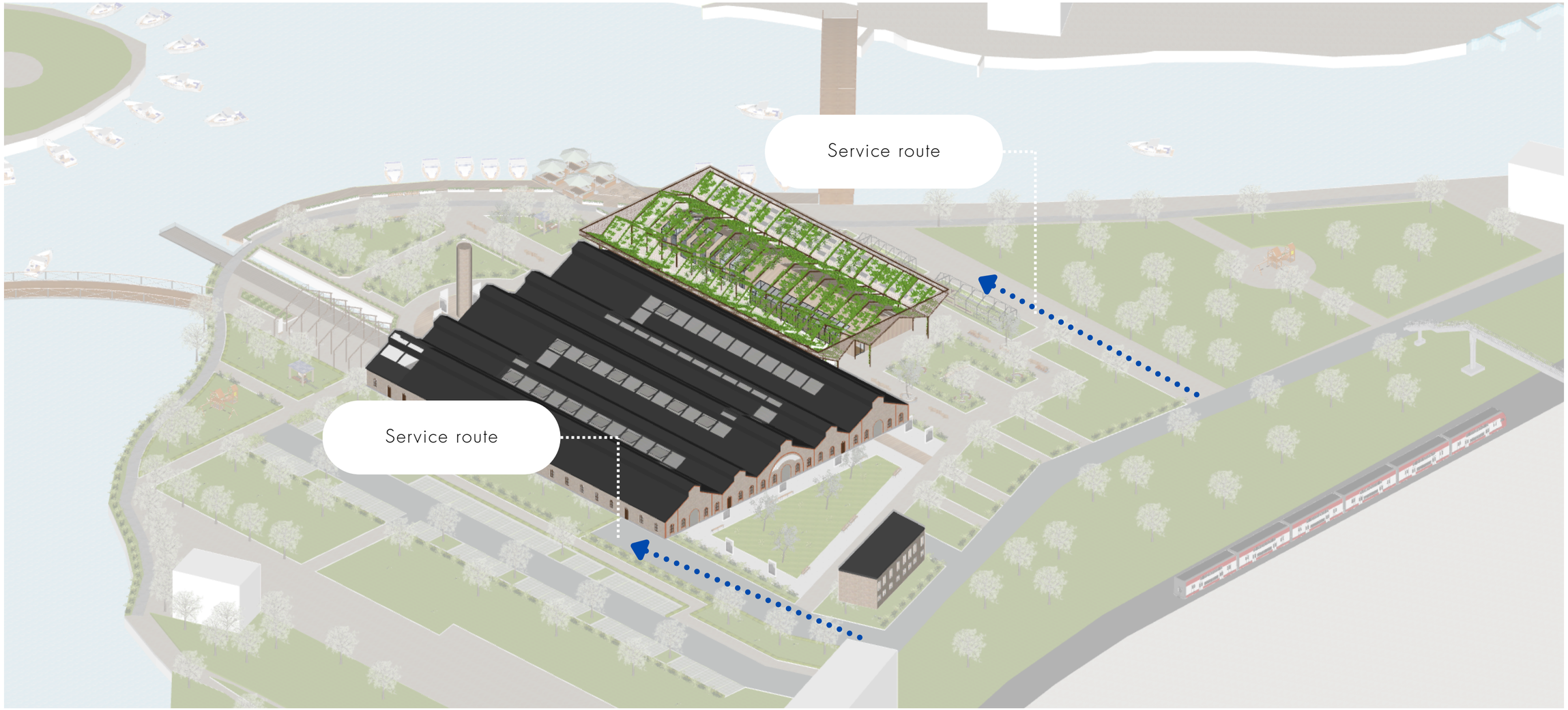
Learning community hub | Site

Accesebility cars



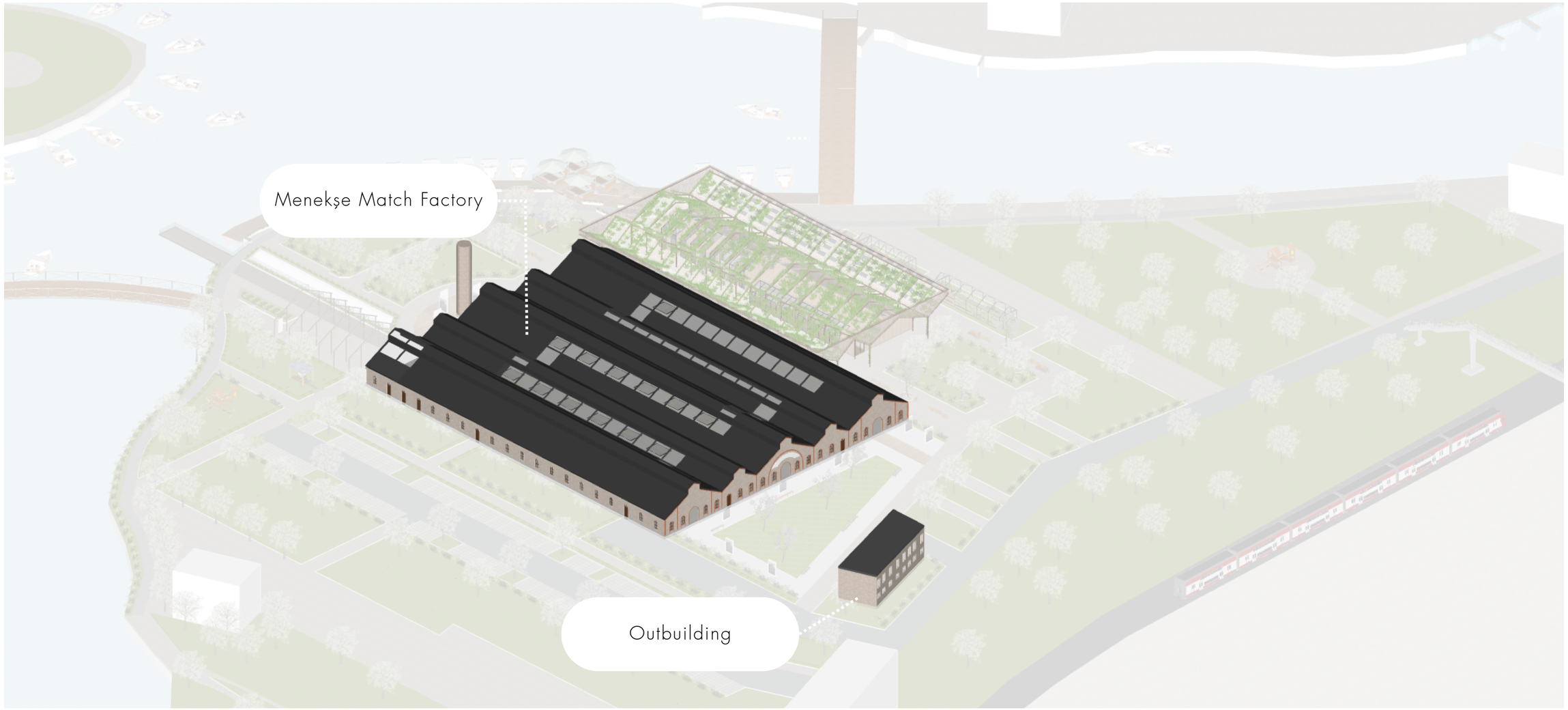
Learning community hub | Site

Service routes



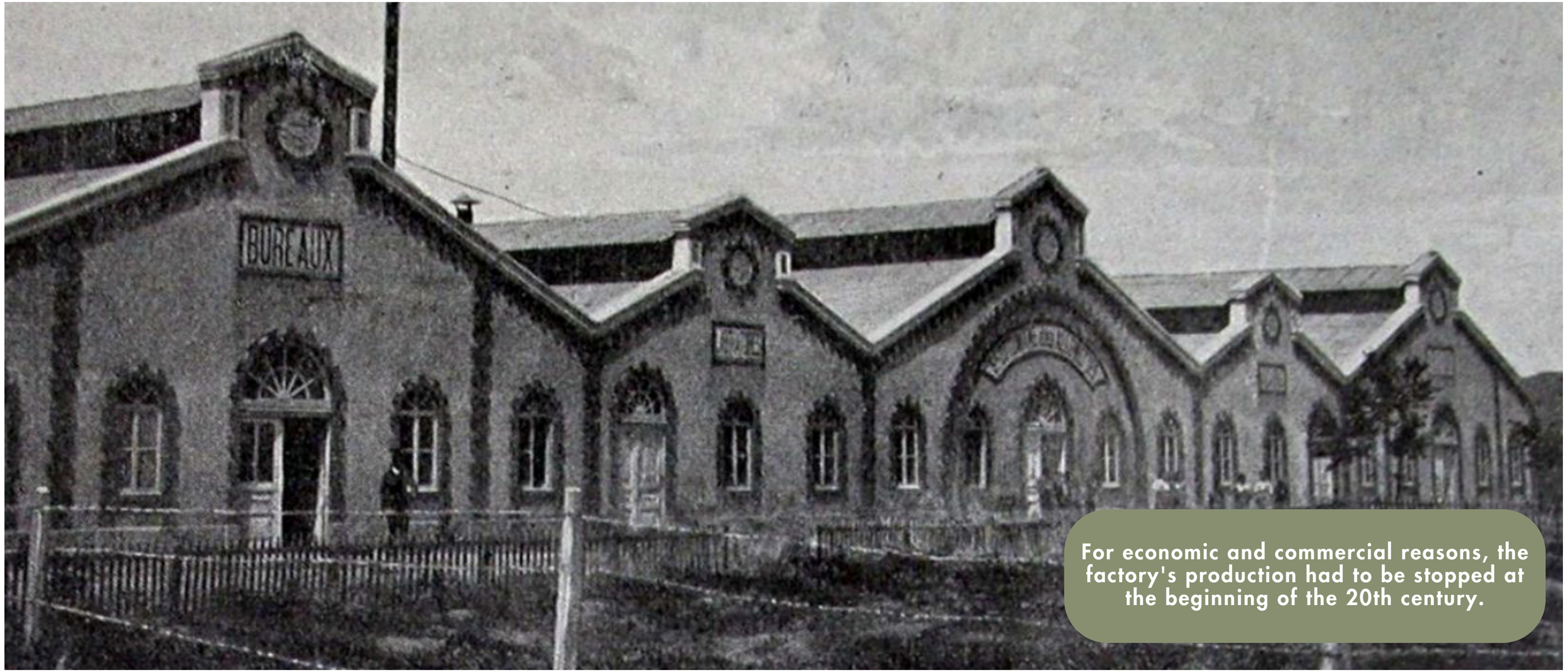
Architectural Design | Menekşe Match Factory

Reuse of the Menekse match factory and the outbuilding



Architectural Design | Menekşe Match Factory

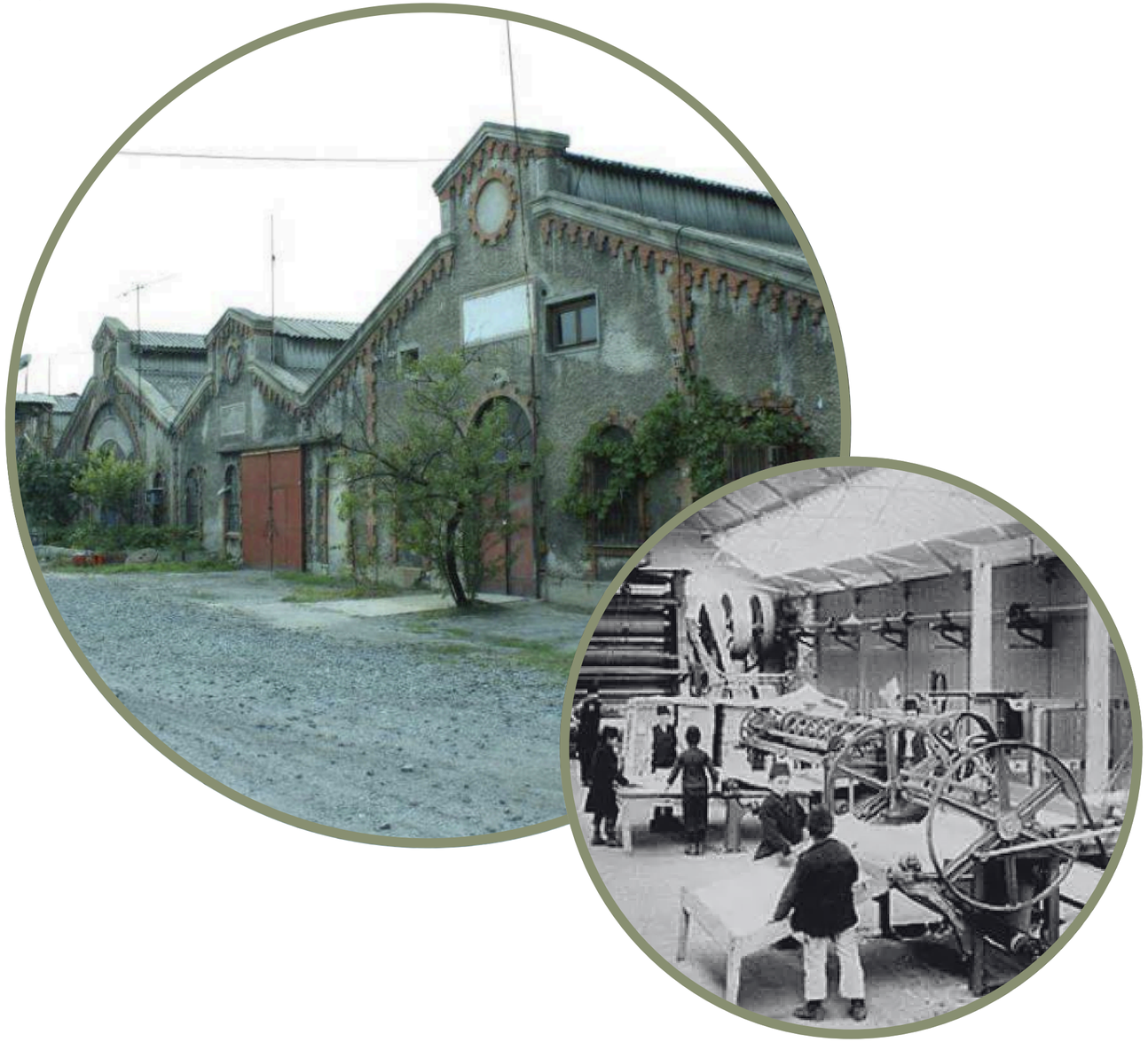
Cultural heritage from 1893



For economic and commercial reasons, the factory's production had to be stopped at the beginning of the 20th century.

Menekşe Match Factory

- Production of match making
- Located in a protected natural area
- Cultural heritage



Current condition of the Building

- Damaged roof
- Aged materials and signs of overgrowth
- Damaged window frames, doors, and interior walls



Facades

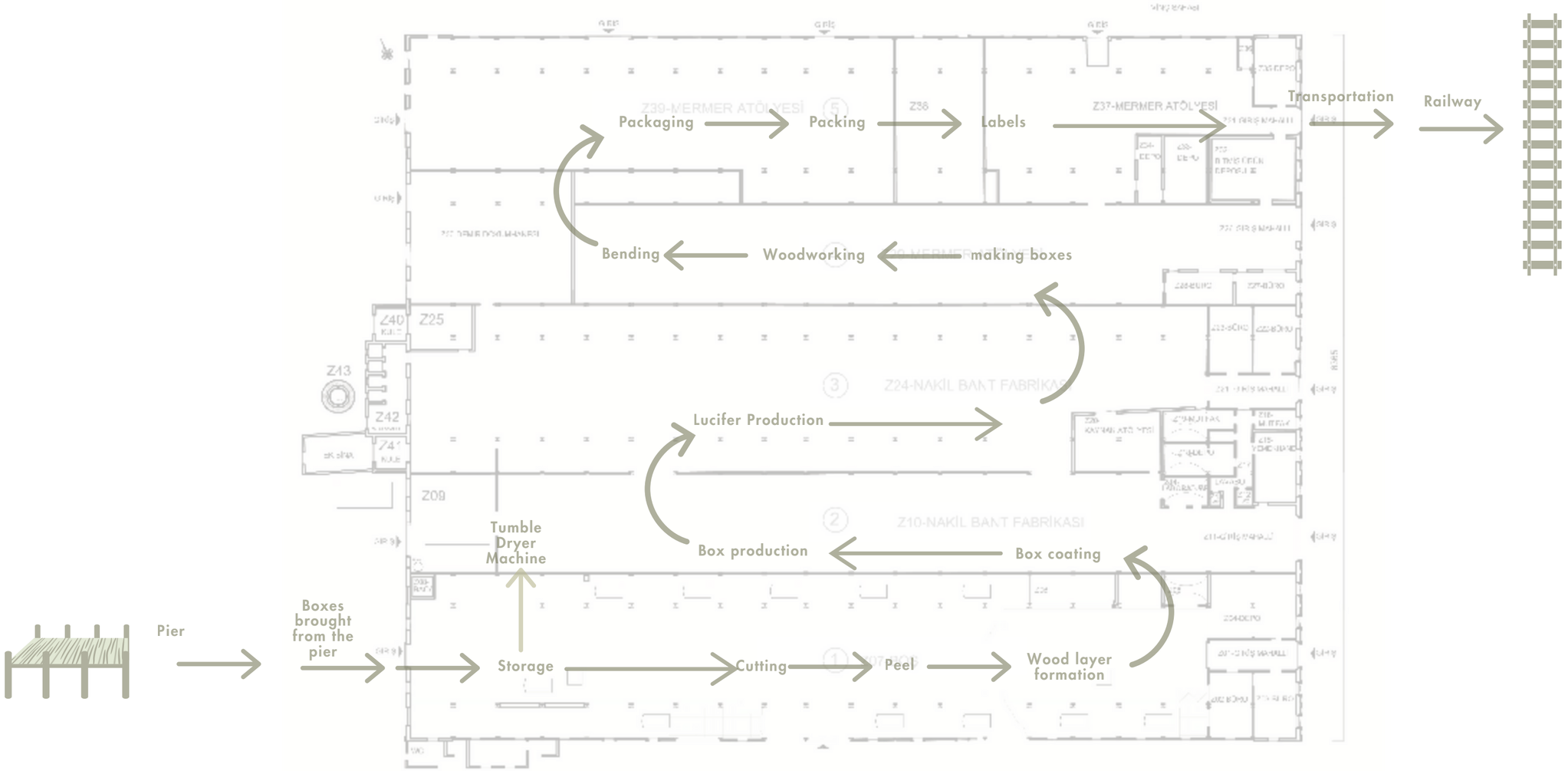


Roof



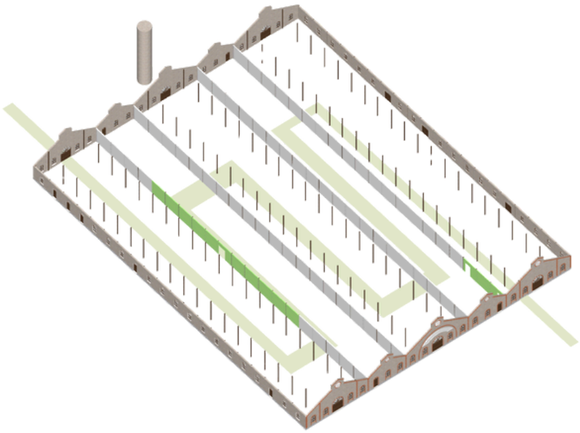
Thermal envelope

Production process of the match

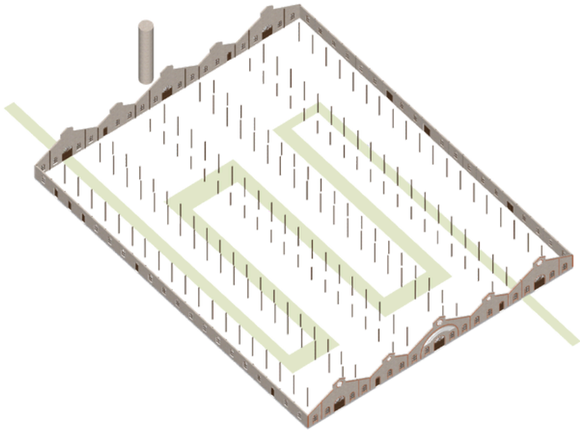


Architectural Design | Menekşe Match Factory

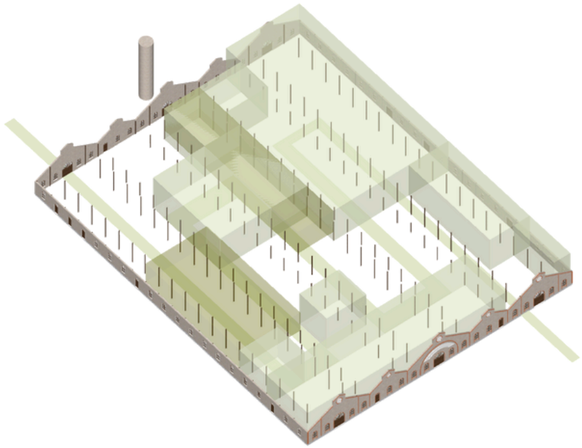
Design concept



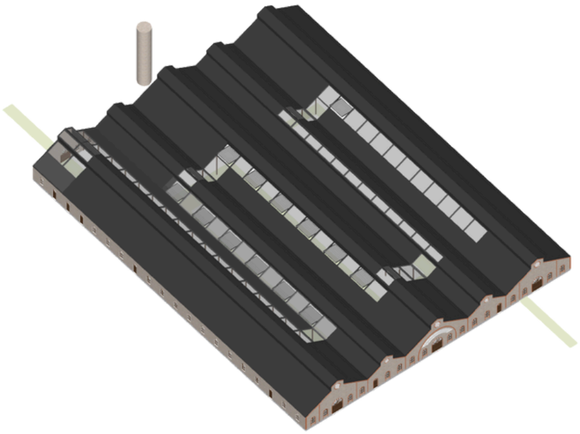
Removing very damaged walls, preserving the ones that are in good state and useable for the route



Adapting the production route as an flow in the building

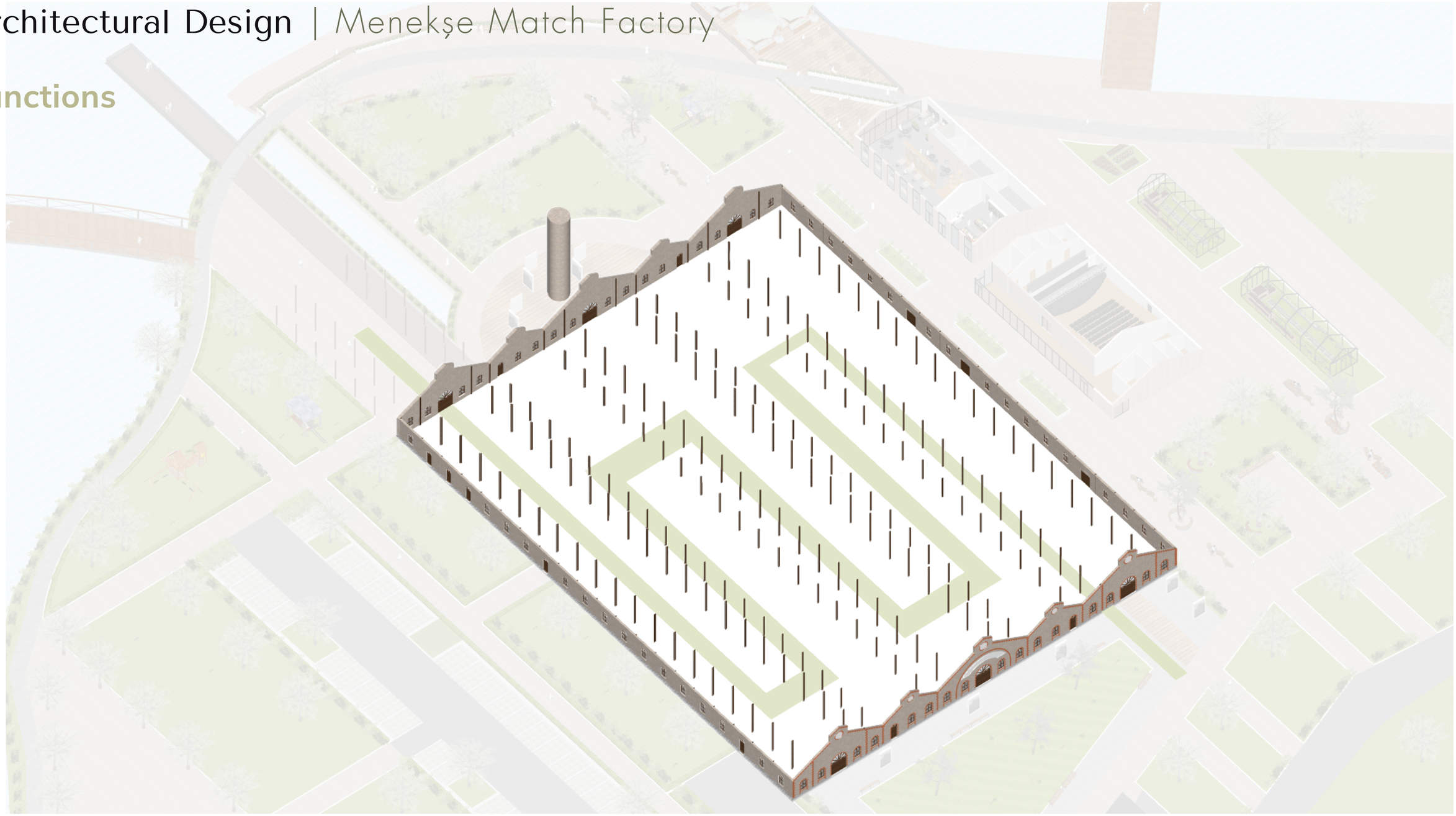


Functions are strategically placed to support an storytelling experience



The roof is replaced with a new structure that allows daylight to flood the route

Functions



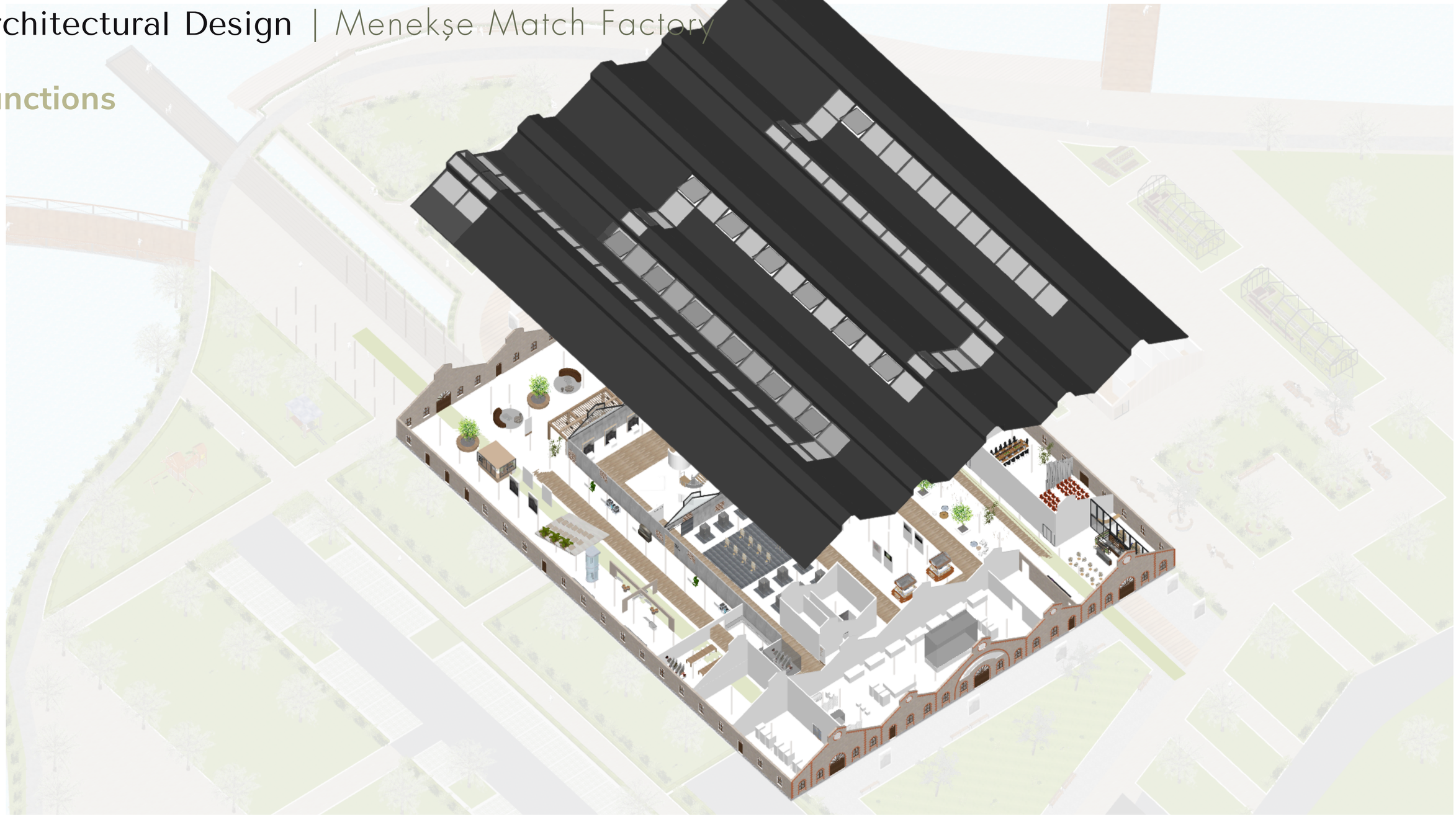
Architectural Design | Menekşe Match Factory

Functions

Main entrance



Functions



Architectural Design | Menekşe Match Factory

Start of The Story



Architectural Design | Menekşe Match Factory

Functions

Main entrance



Meating/sitting
Toilets
Lockers
Reception



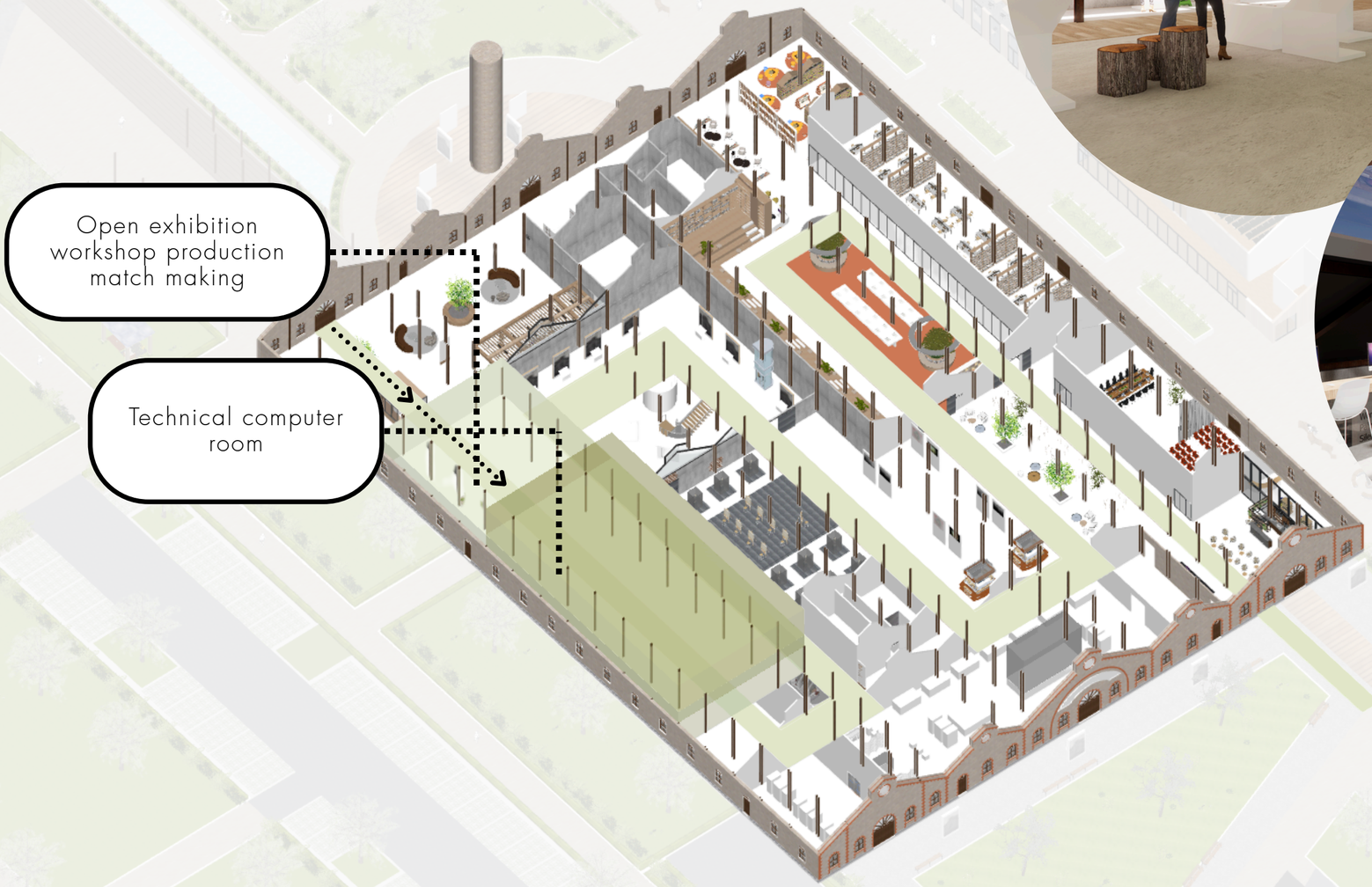
Architectural Design | Menekşe Match Factory

Functions

Open exhibition, Workshop, Technical computer room







Architectural Design | Menekşe Match Factory

Functions

Audio Exhibition
Work Spaces (first floor)



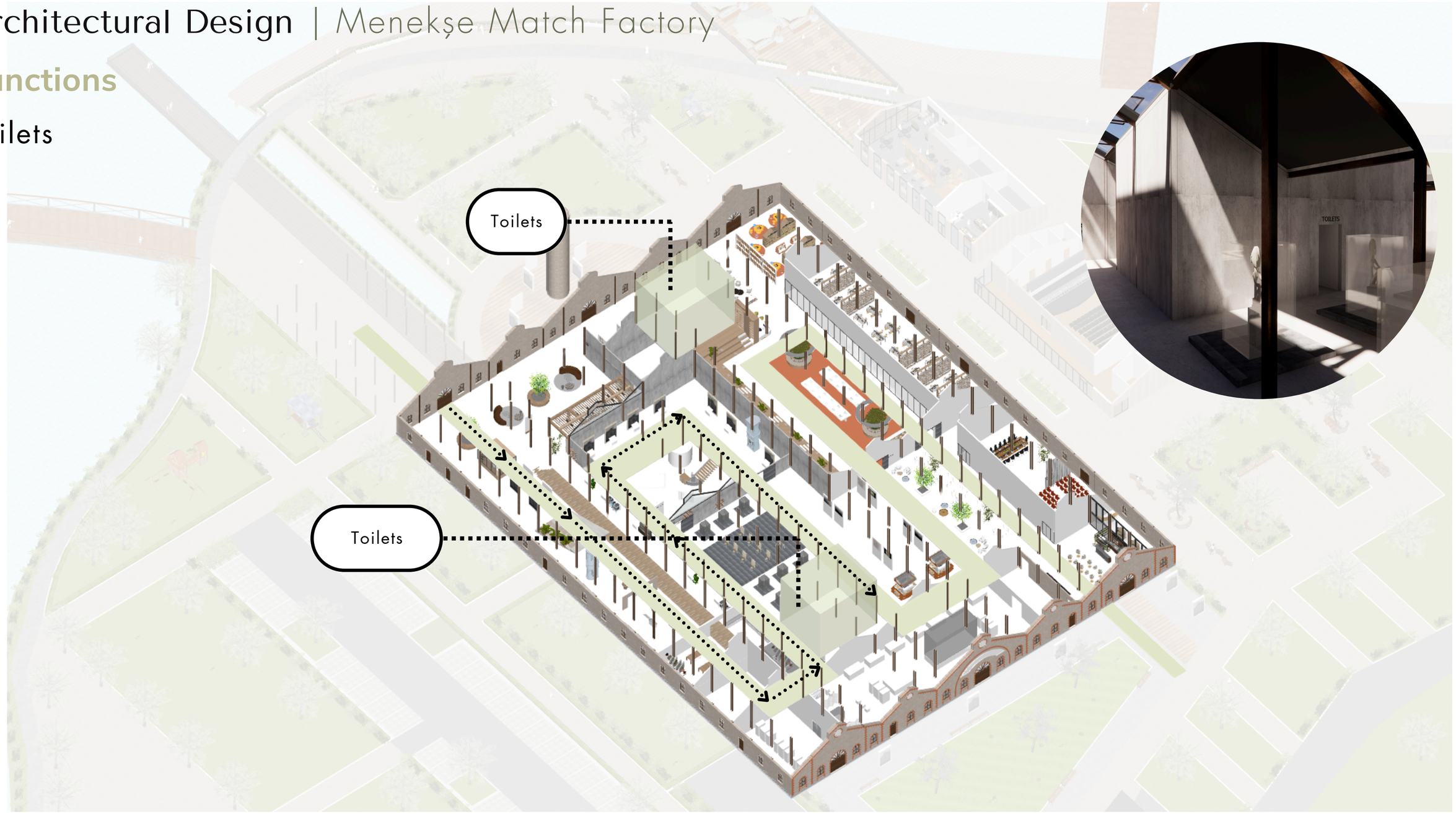




Architectural Design | Menekşe Match Factory

Functions

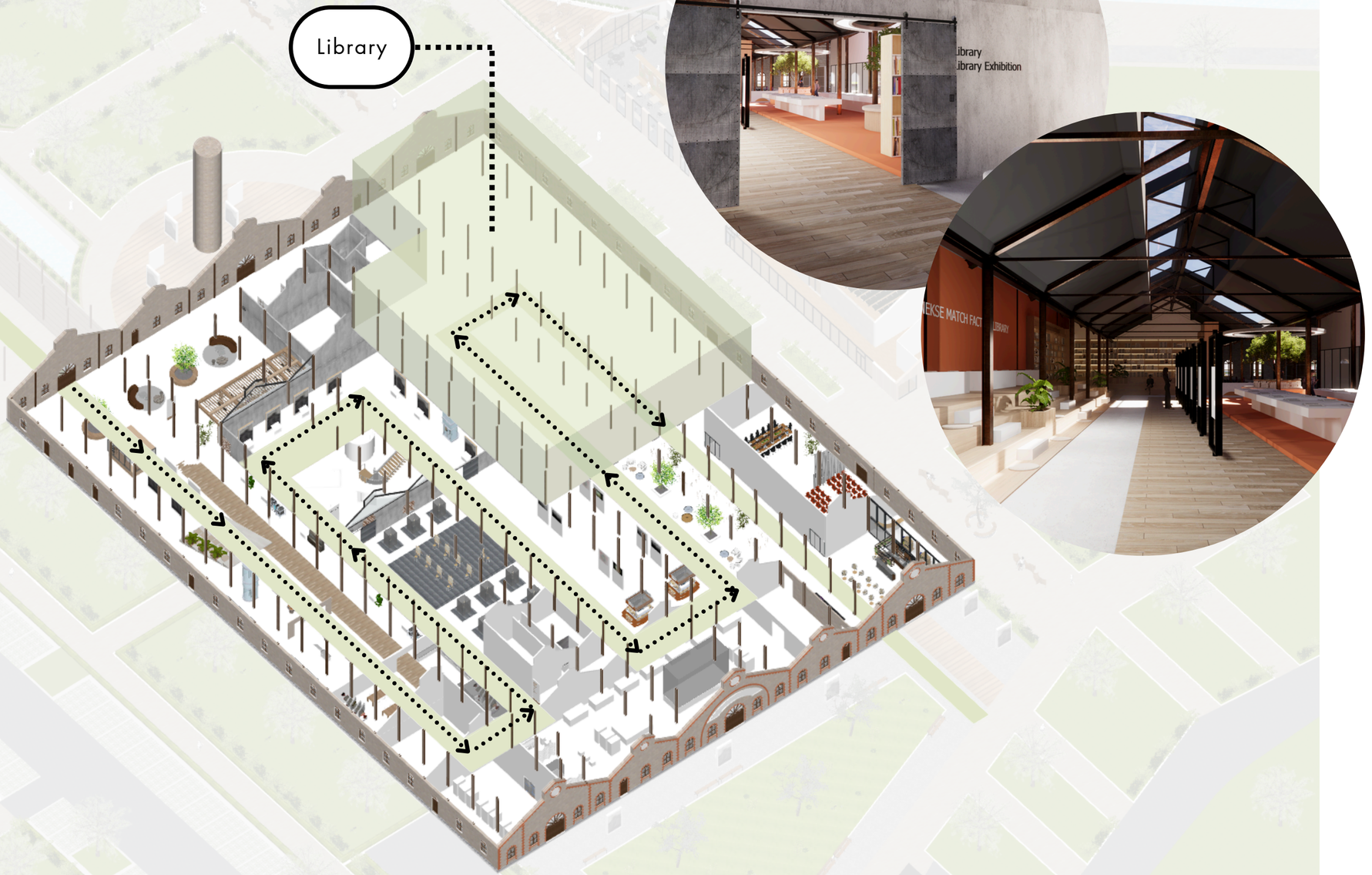
Toilets



Architectural Design | Menekşe Match Factory

Functions

Library



Architectural Design | Menekşe Match Factory

Functions

Multi-Use Room





Architectural Design | Menekşe Match Factory

Functions

Temporary Exhibition, Gift shop

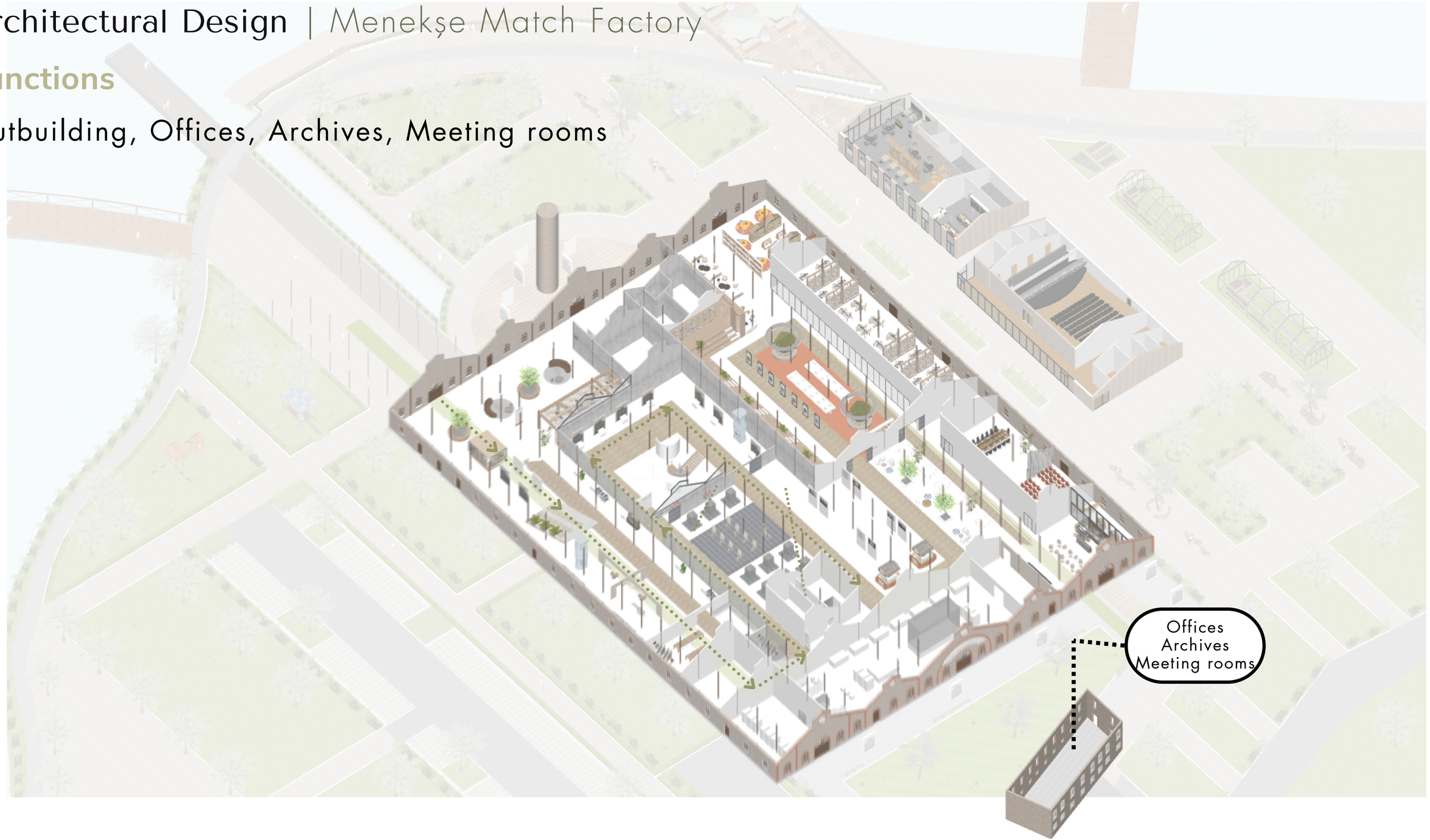




Architectural Design | Menekşe Match Factory

Functions

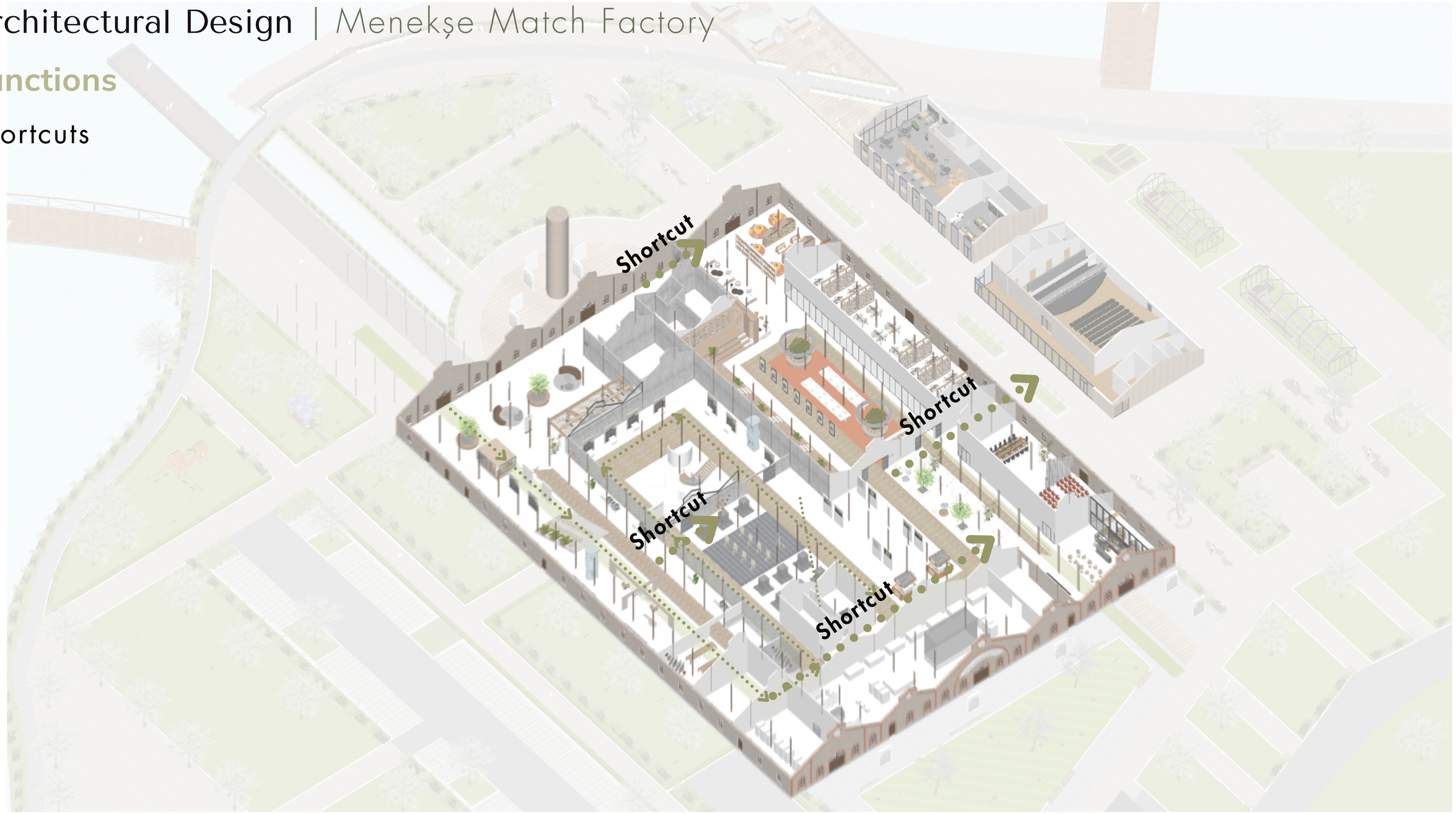
Outbuilding, Offices, Archives, Meeting rooms



Architectural Design | Menekşe Match Factory

Functions

Shortcuts



Architectural Design | Menekşe Match Factory

From memory to making: entering the new volume

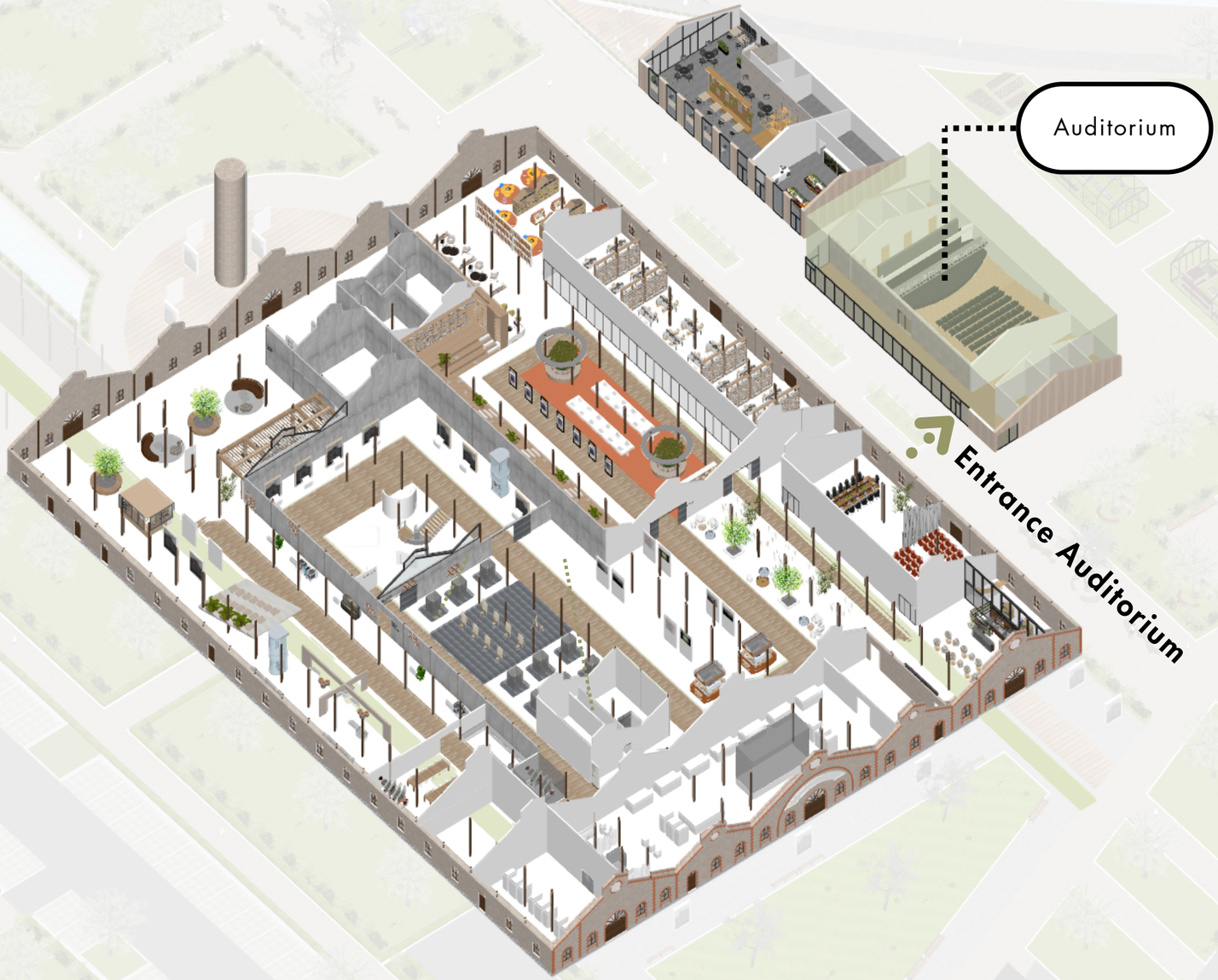


Architectural Design | Menekşe Match Factory

Functions new adding

Auditorium





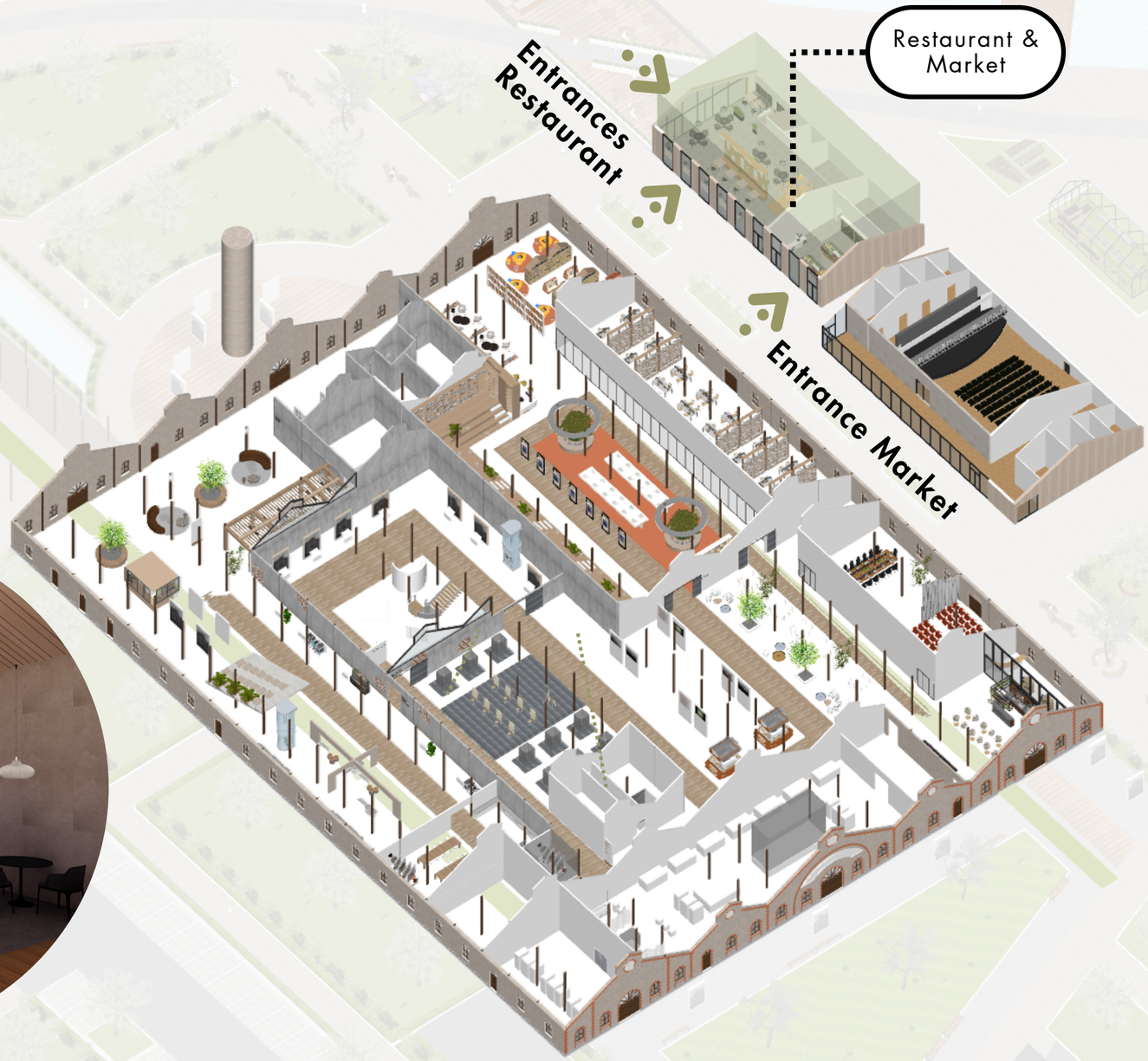
Architectural Design | Menekşe Match Factory

Functions new adding

Restaurant & Market







Architectural Design | New Addition

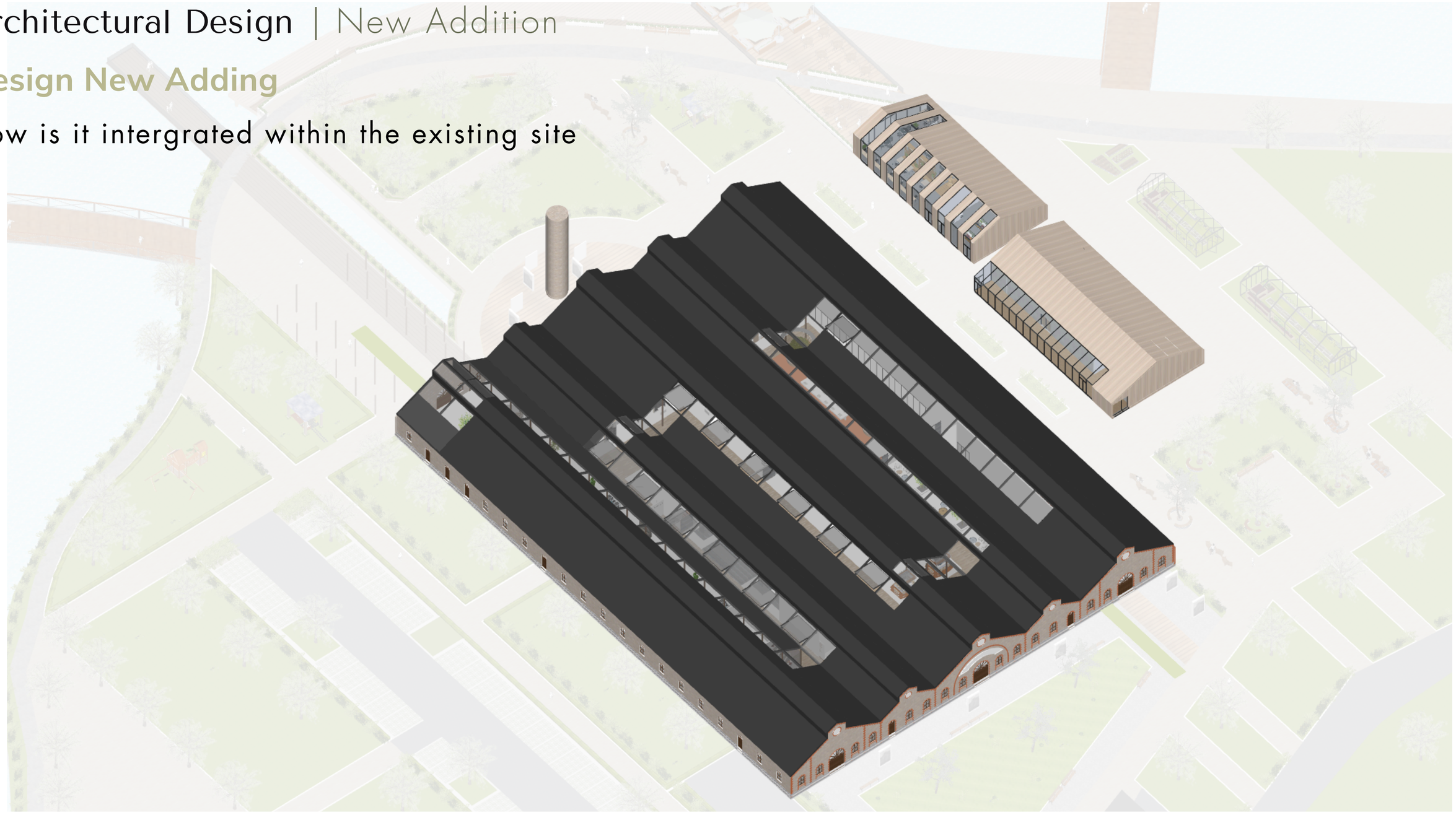
Design New Adding



Architectural Design | New Addition

Design New Adding

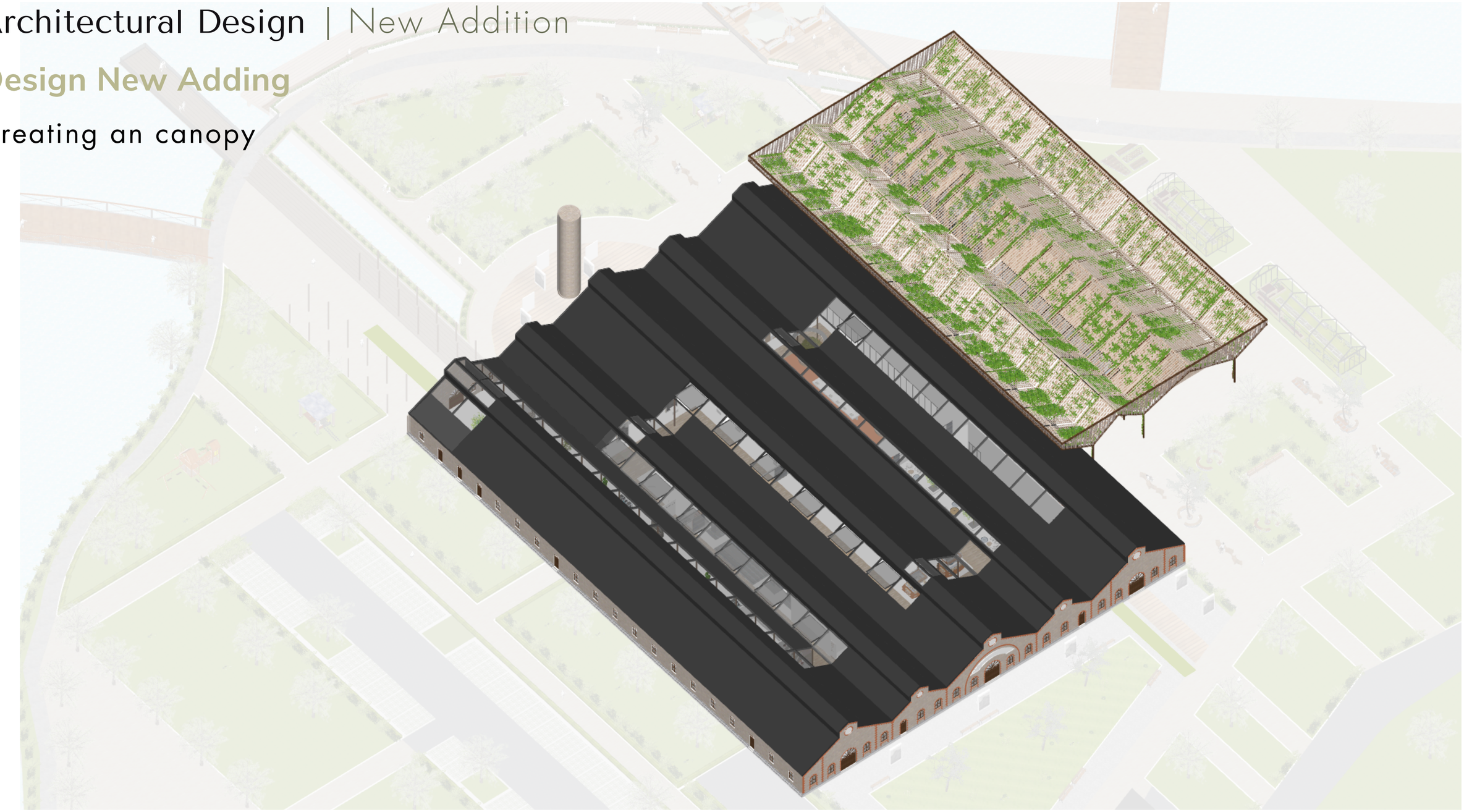
How is it intergrated within the existing site



Architectural Design | New Addition

Design New Adding

Creating an canopy

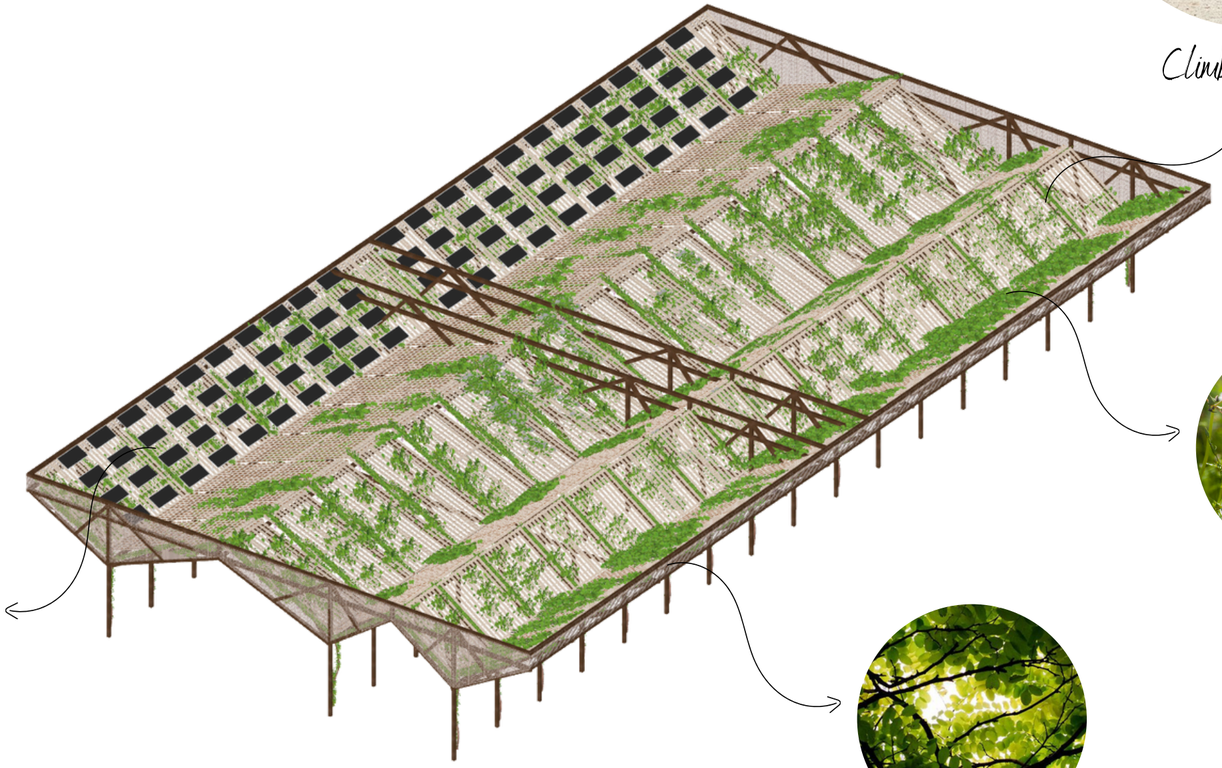


Architectural Design | New Addition

Structure of the New Building's Canopy



Climbing plants



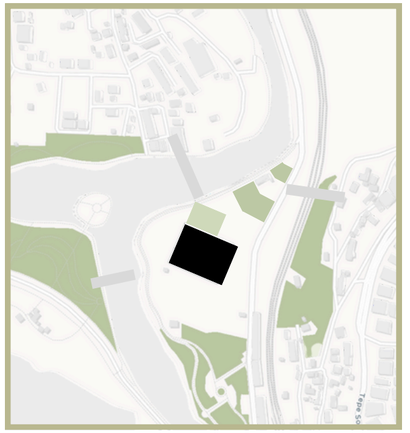


Biodiversity

Climate comfort



Biosolar roof



Architectural Design | New Addition

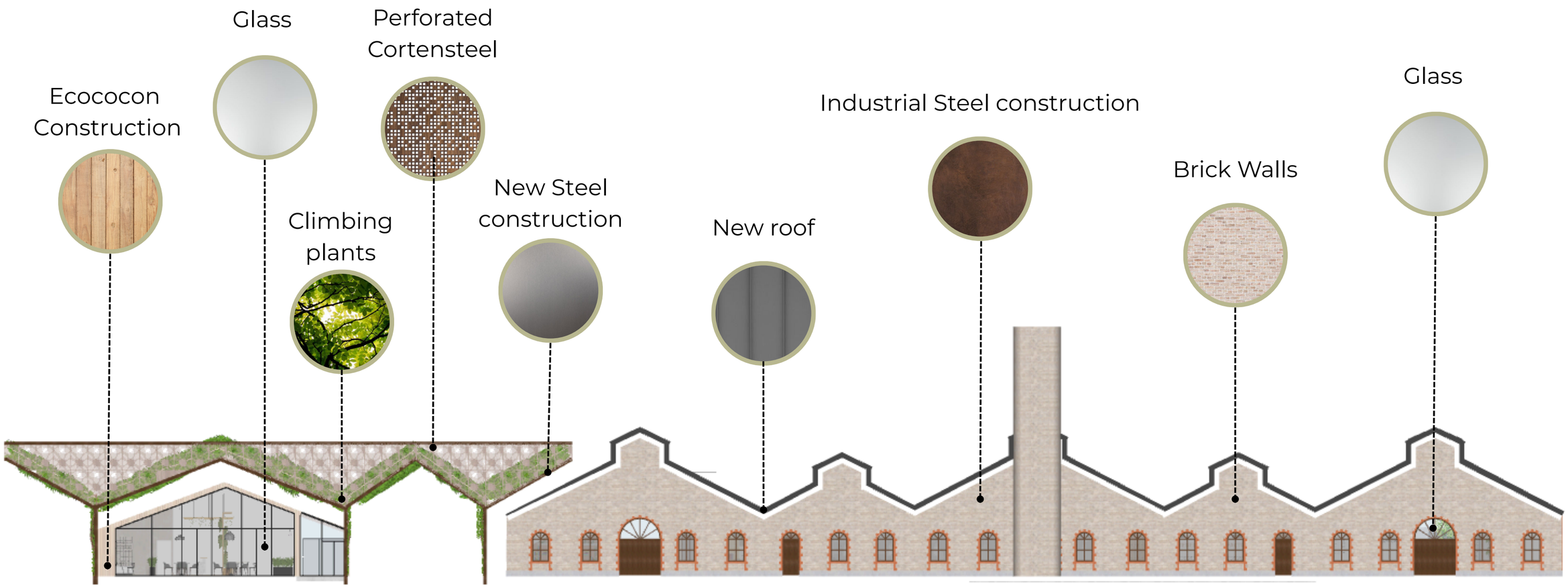
Design New Adding



Architectural Design | New Addition

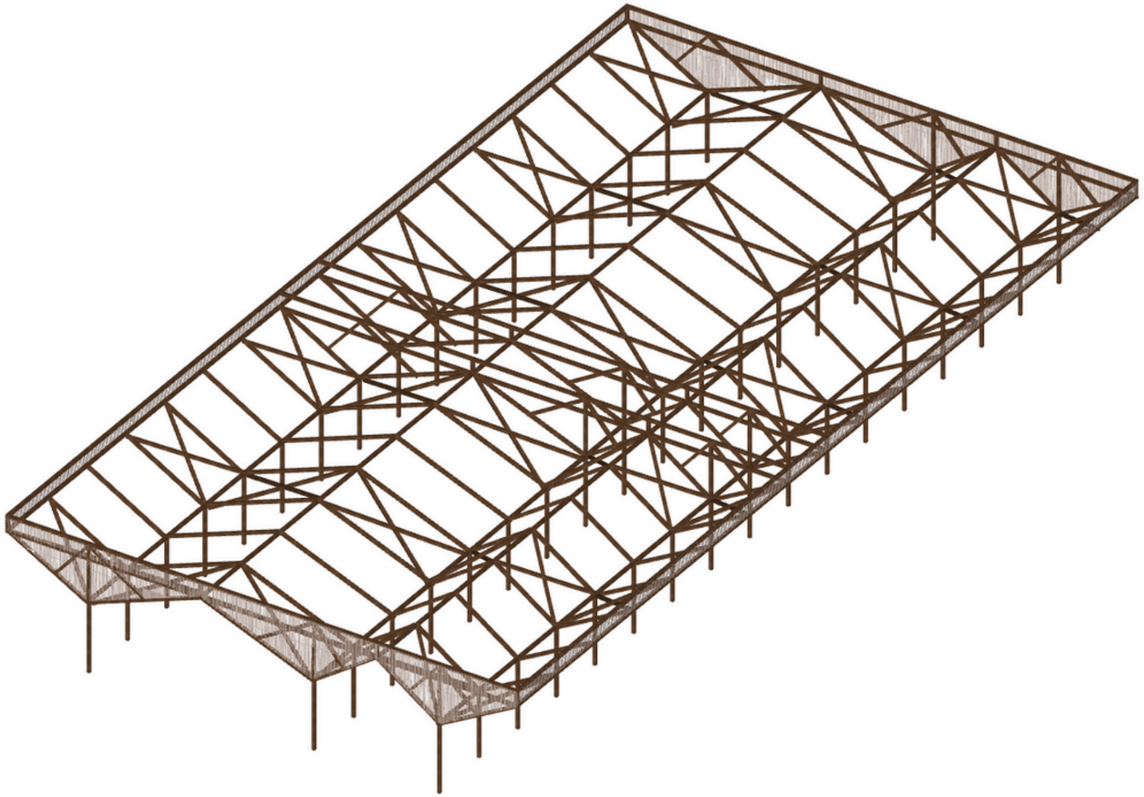
Design New Adding

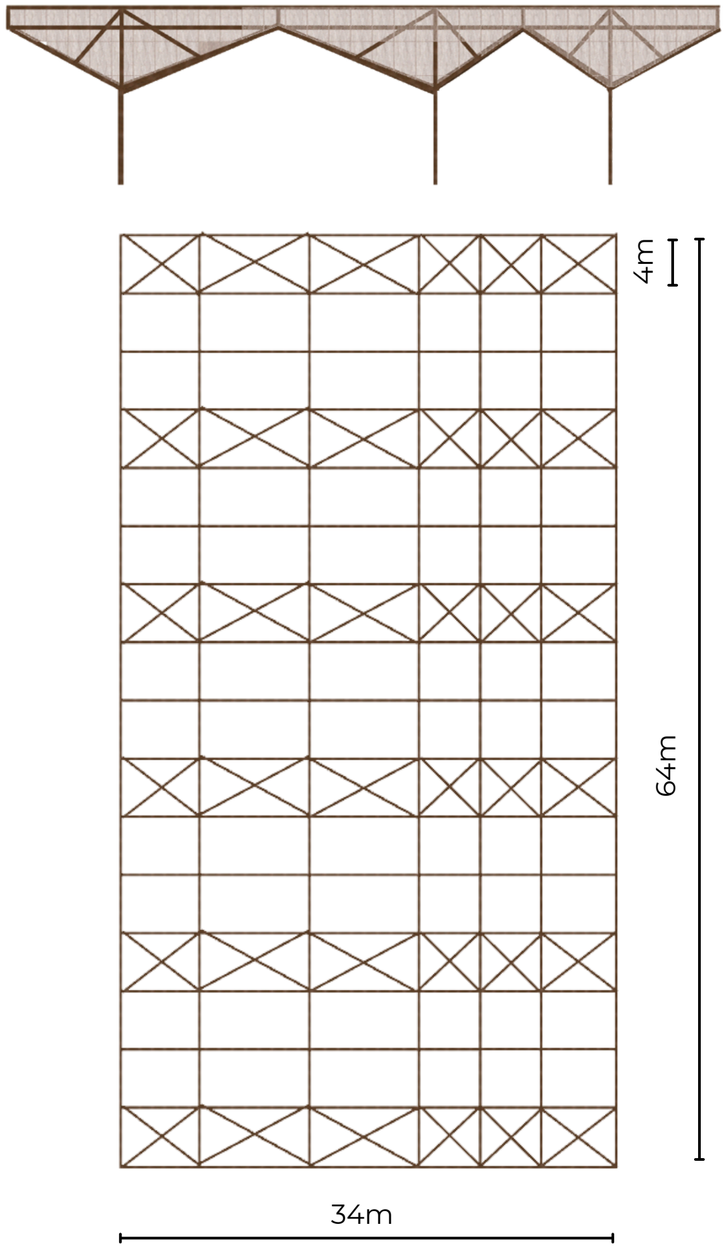
Materials



Architectural Design | New Addition

Construction canopy



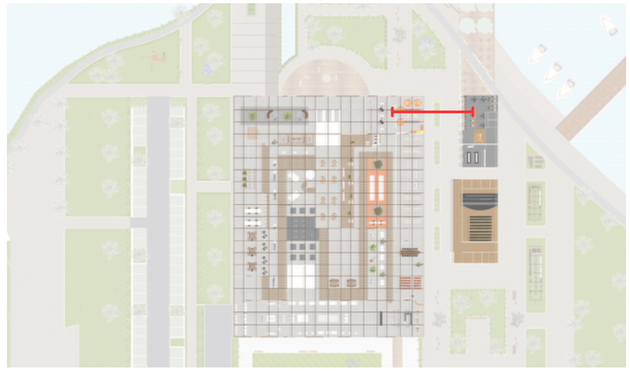


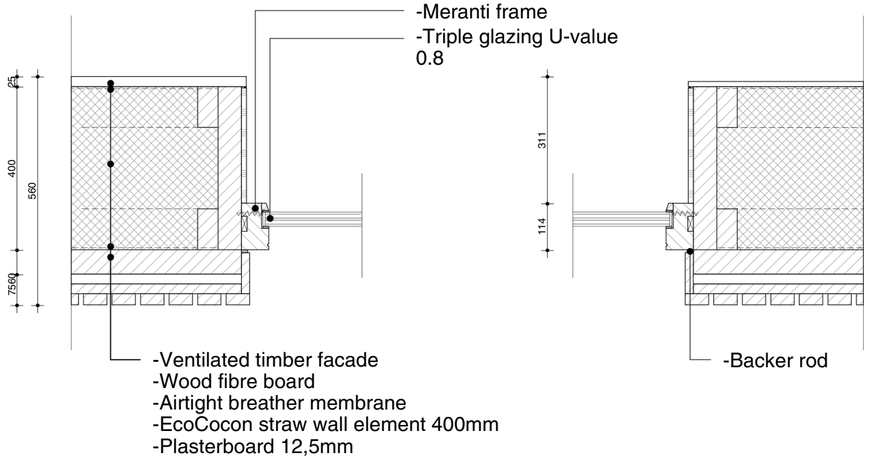
Architectural Design | New Addition

Design New Adding

Wooden facade with EcoCocon panels

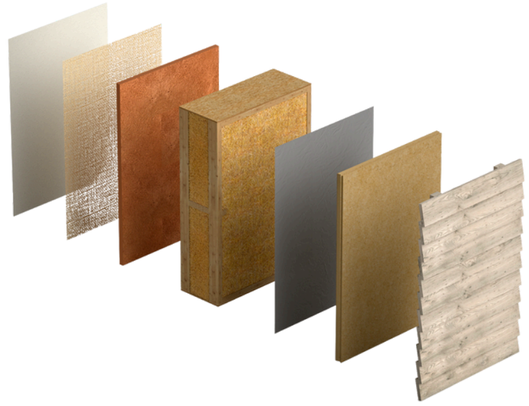






HORIZONTAL WINDOW FRAME DETAIL

1:10



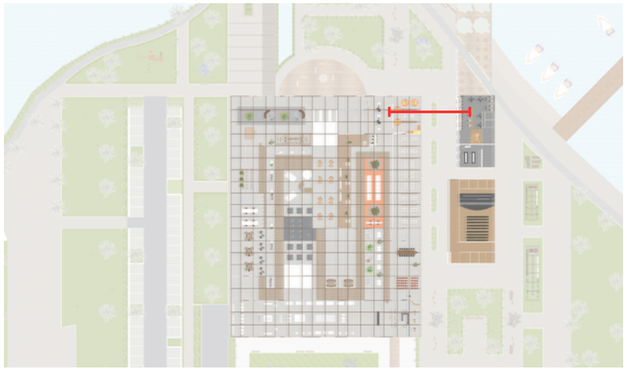
- Made from 98% natural, renewable materials
- Carbon-negative
- Fully recyclable and circular
- Healthy indoor climate

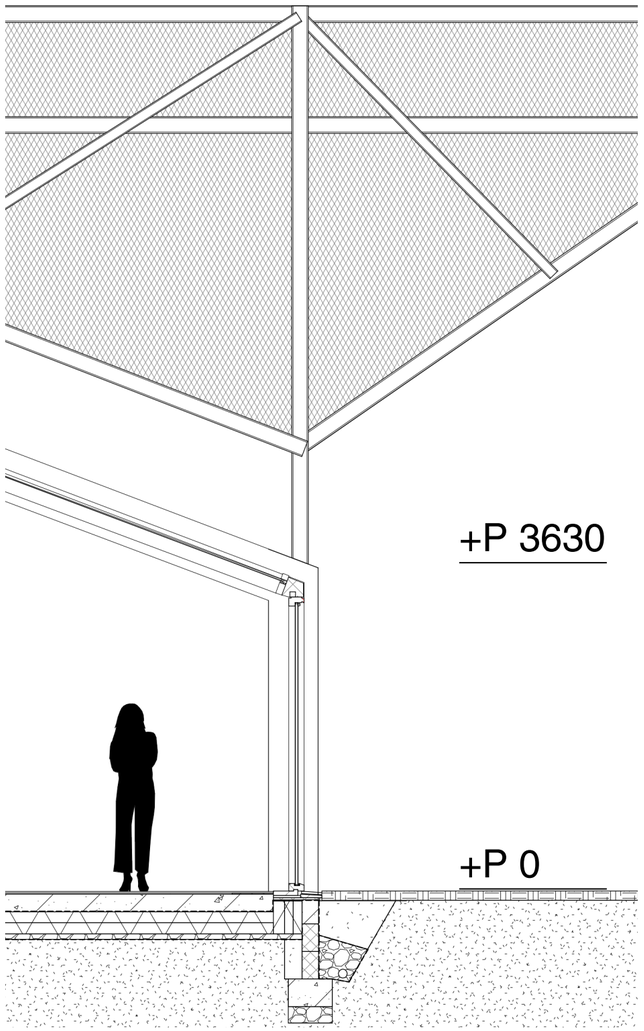
Architectural Design | New Addition

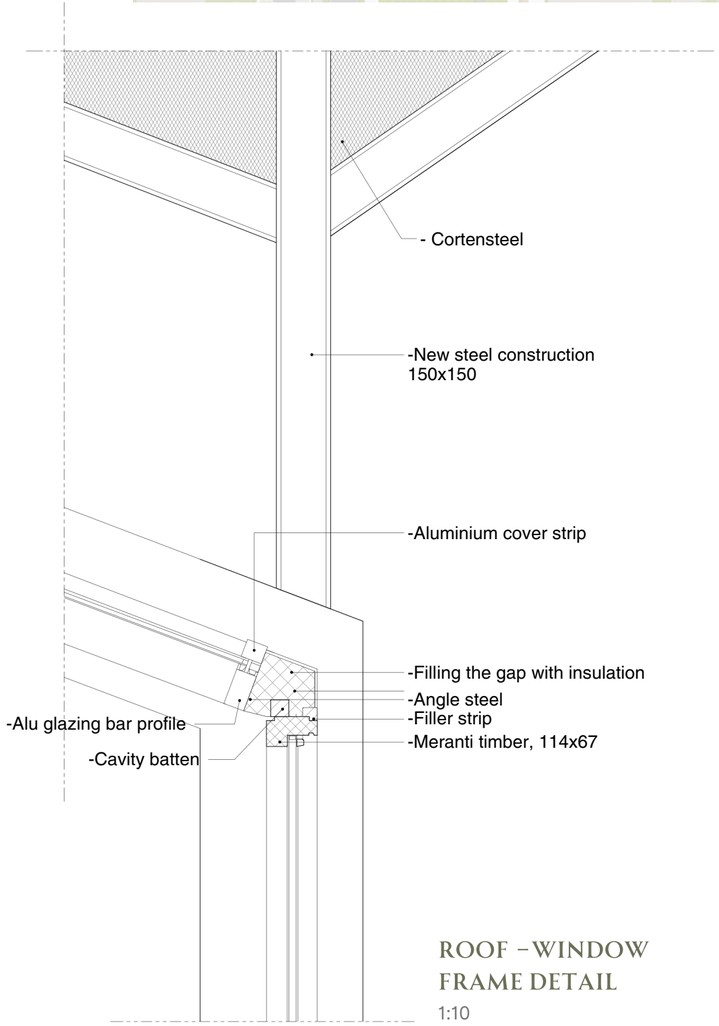
Design New Adding

Creating a experience









ROOF – WINDOW
FRAME DETAIL
1:10

Architectural Design | New Addition

Impression Experience

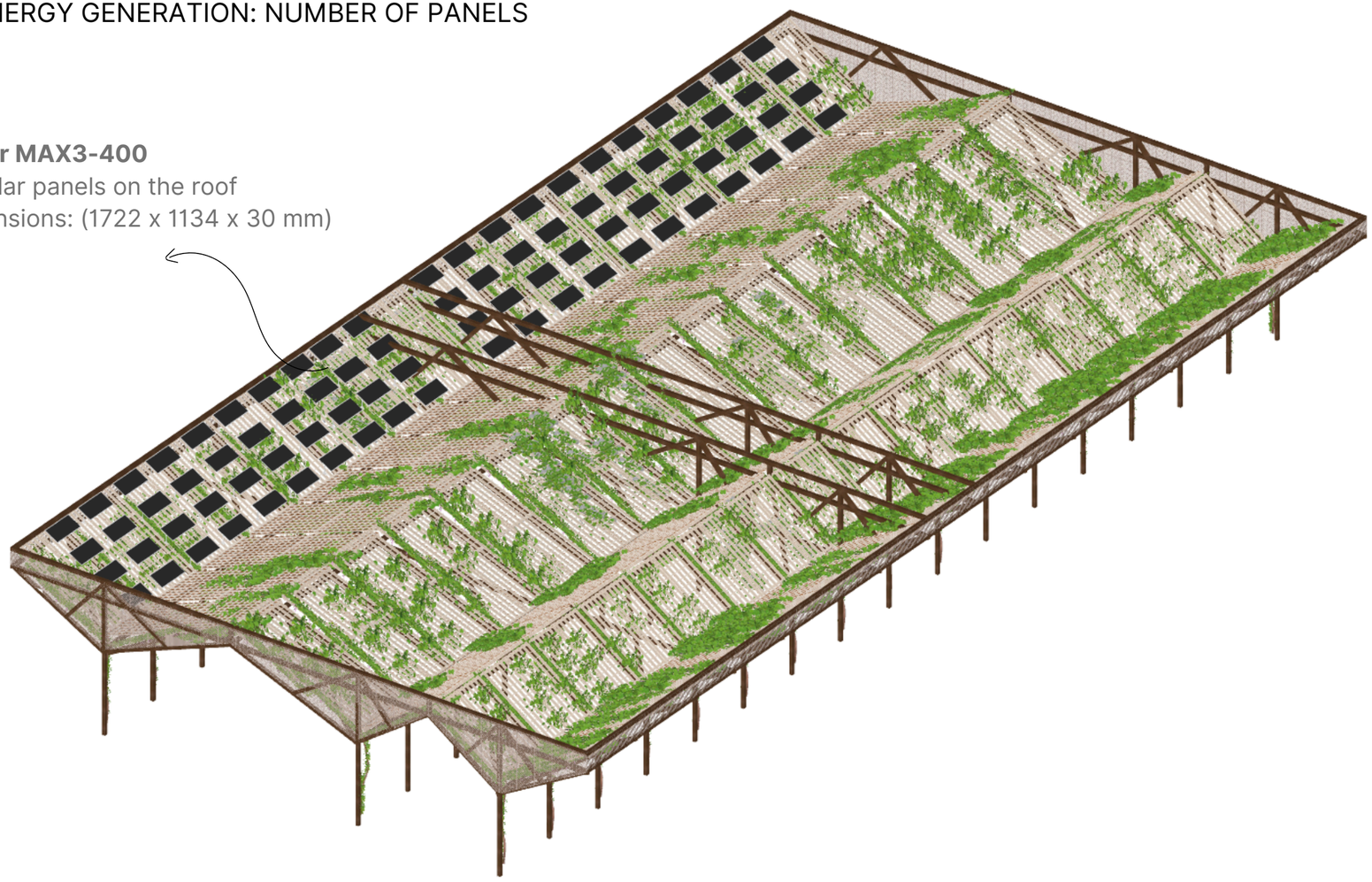


Architectural Design | New Addition

BENG ENERGY GENERATION: NUMBER OF PANELS

SunPower MAX3-400

- 79 solar panels on the roof
- Dimensions: (1722 x 1134 x 30 mm)



Solar panel data

- Panel type: SunPower MAX3-400
- Nominal power: 400 Wp
- Area per panel: approx. 1.8 m²
- Efficiency: around 22% (high efficiency)

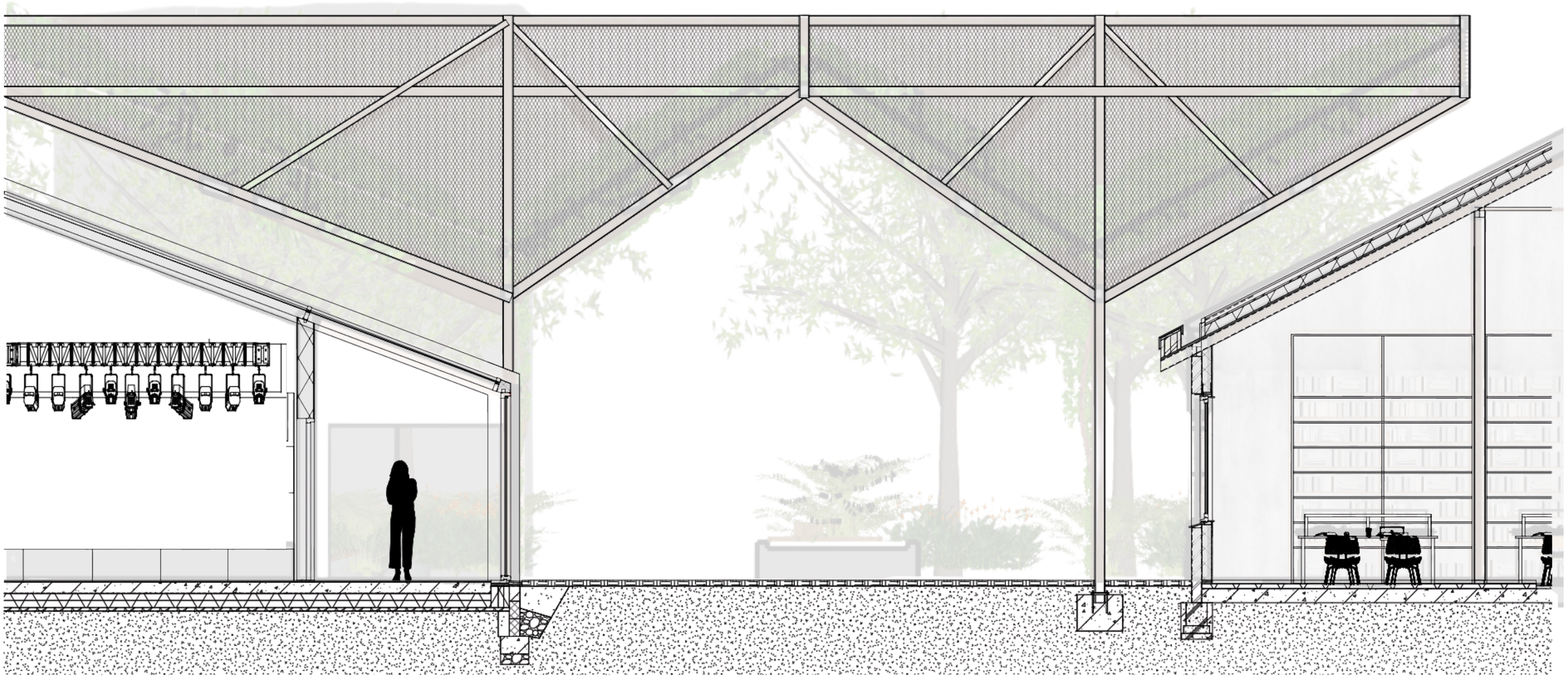
Solar irradiation in Istanbul

- The average annual solar irradiation in:
- The Netherlands: ~1,000 kWh/m²/year
- Istanbul (Küçükçekmece): ~1,600–1,800 kWh/m²/year

- A 400 Wp panel in Istanbul therefore produces about 640–720 kWh/year.

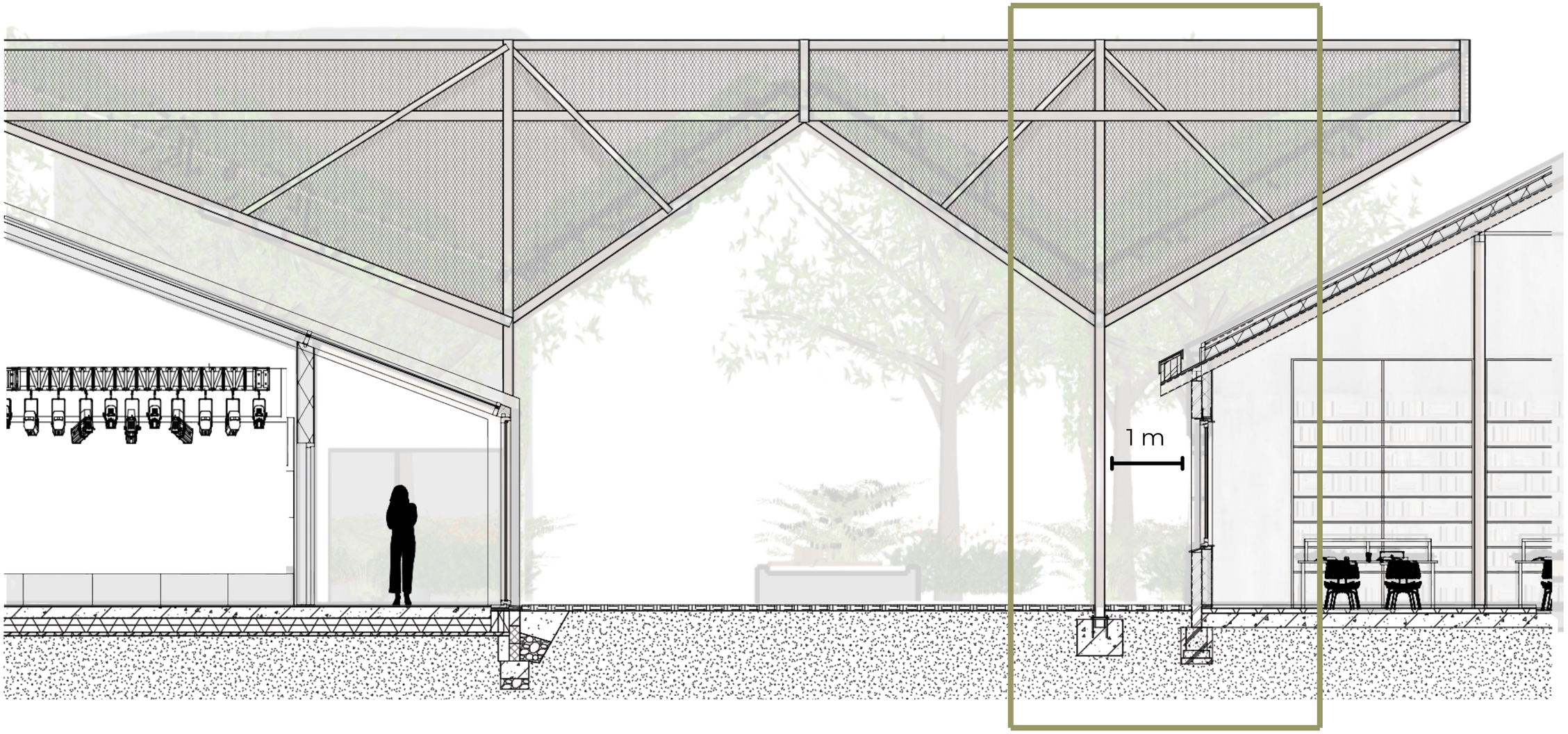
Architectural Design | Intervention

Design



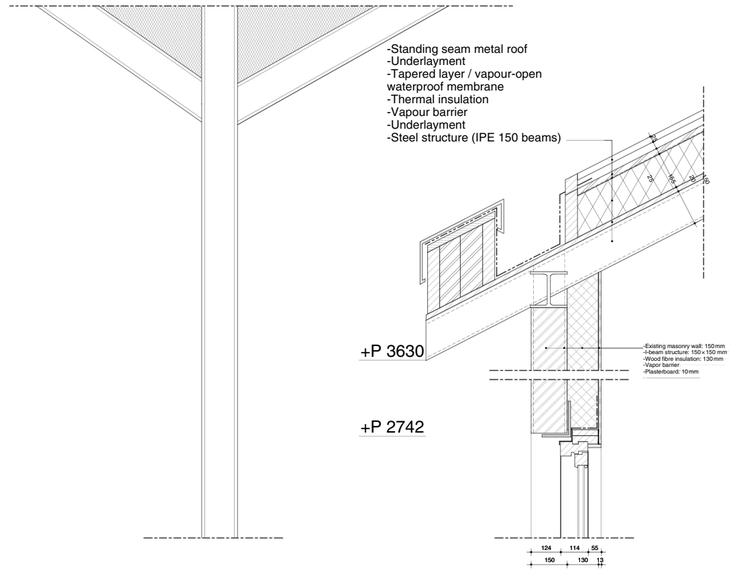
Architectural Design | Intervention

Existing building

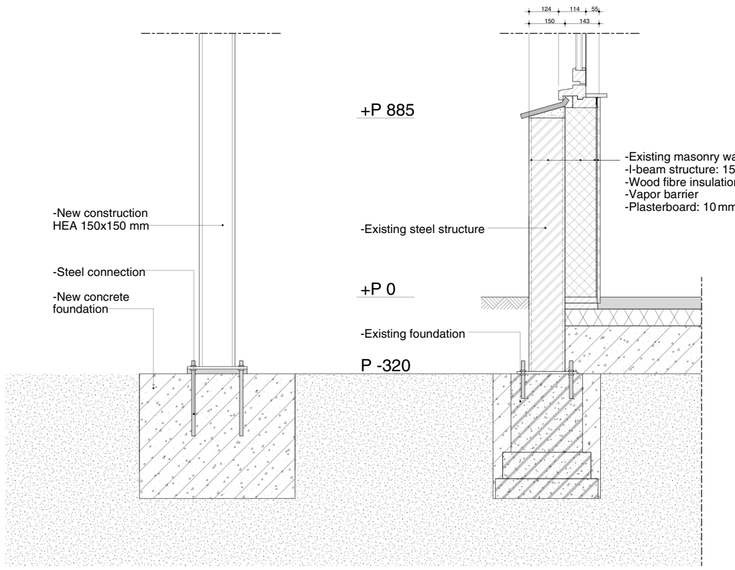


Architectural Design | Intervention

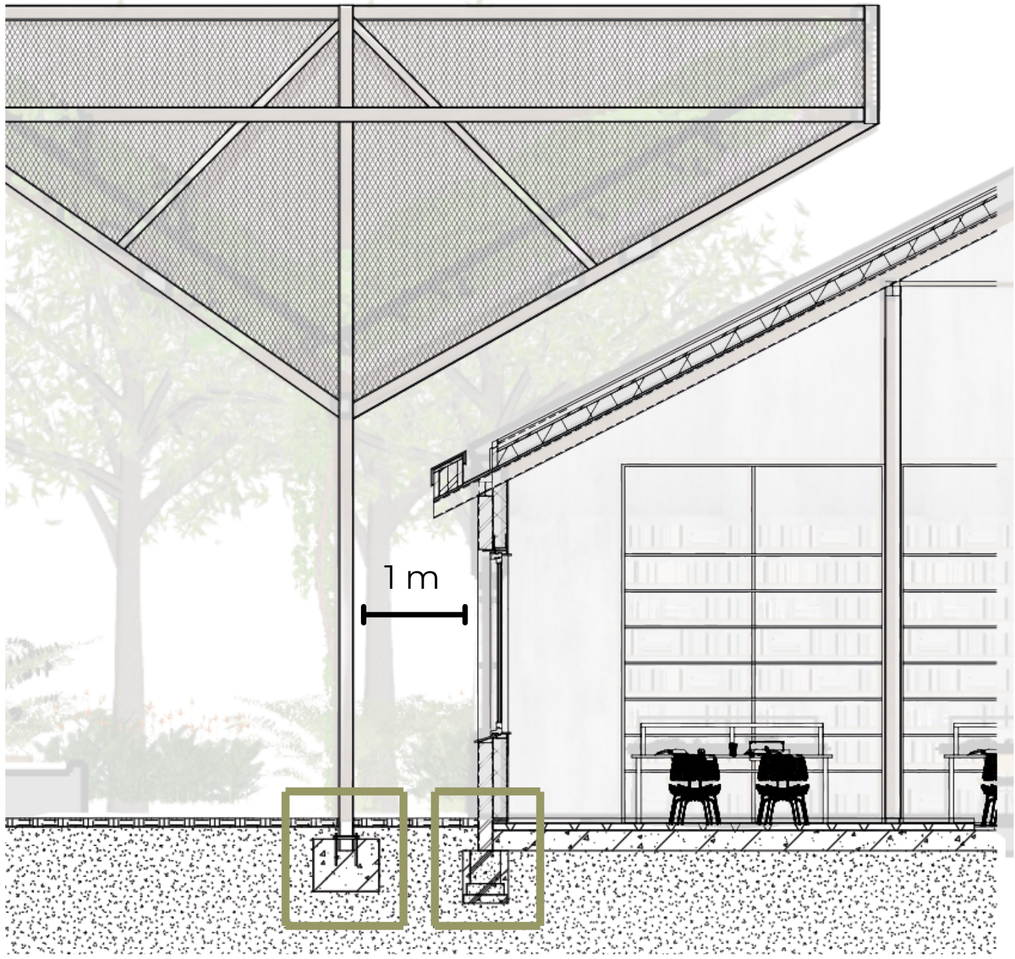
Design



ROOF DETAIL
1:10

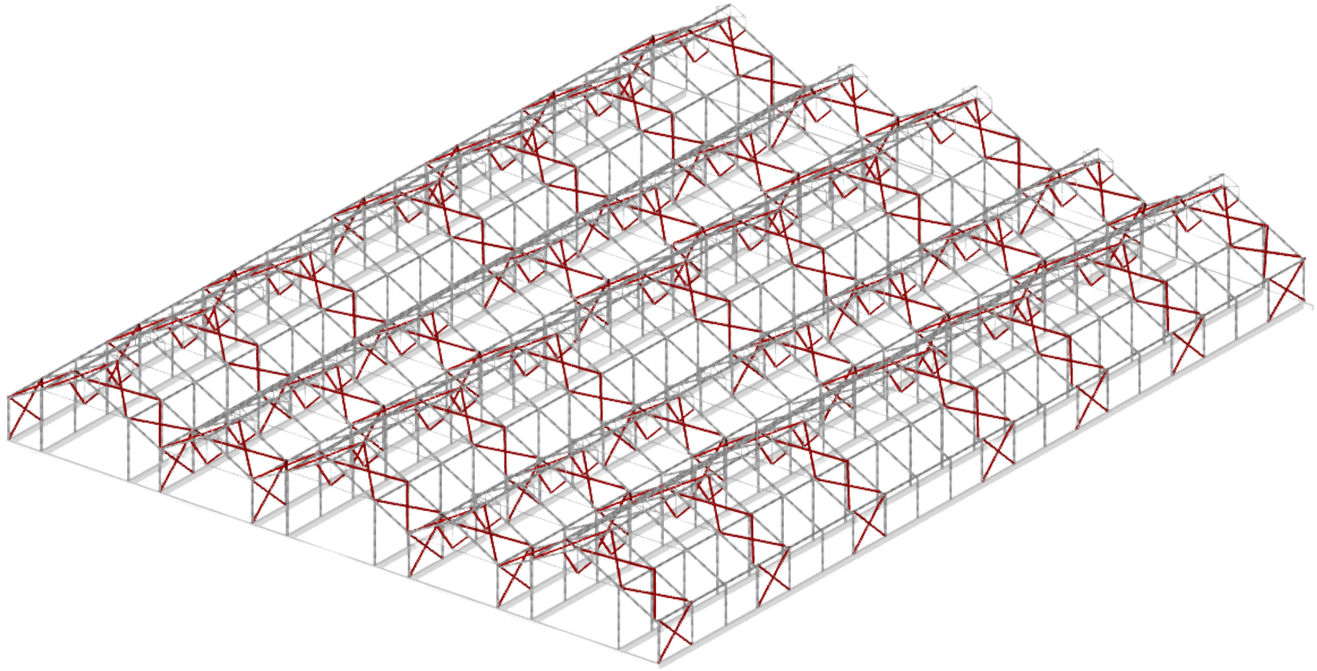


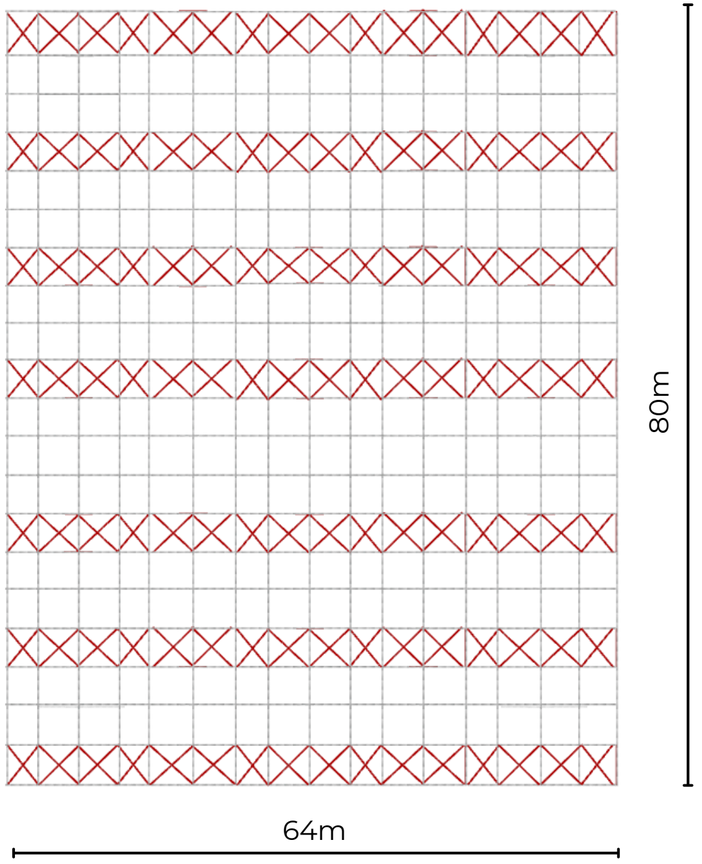
FOUNDATION DETAIL
1:10

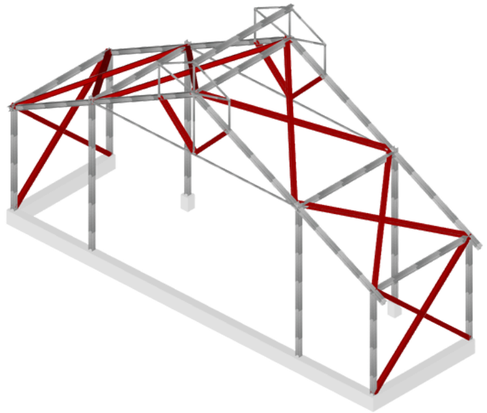


Architectural Design | Menekşe Match Factory

Menekse Match Factory Reinforced Steel Construction

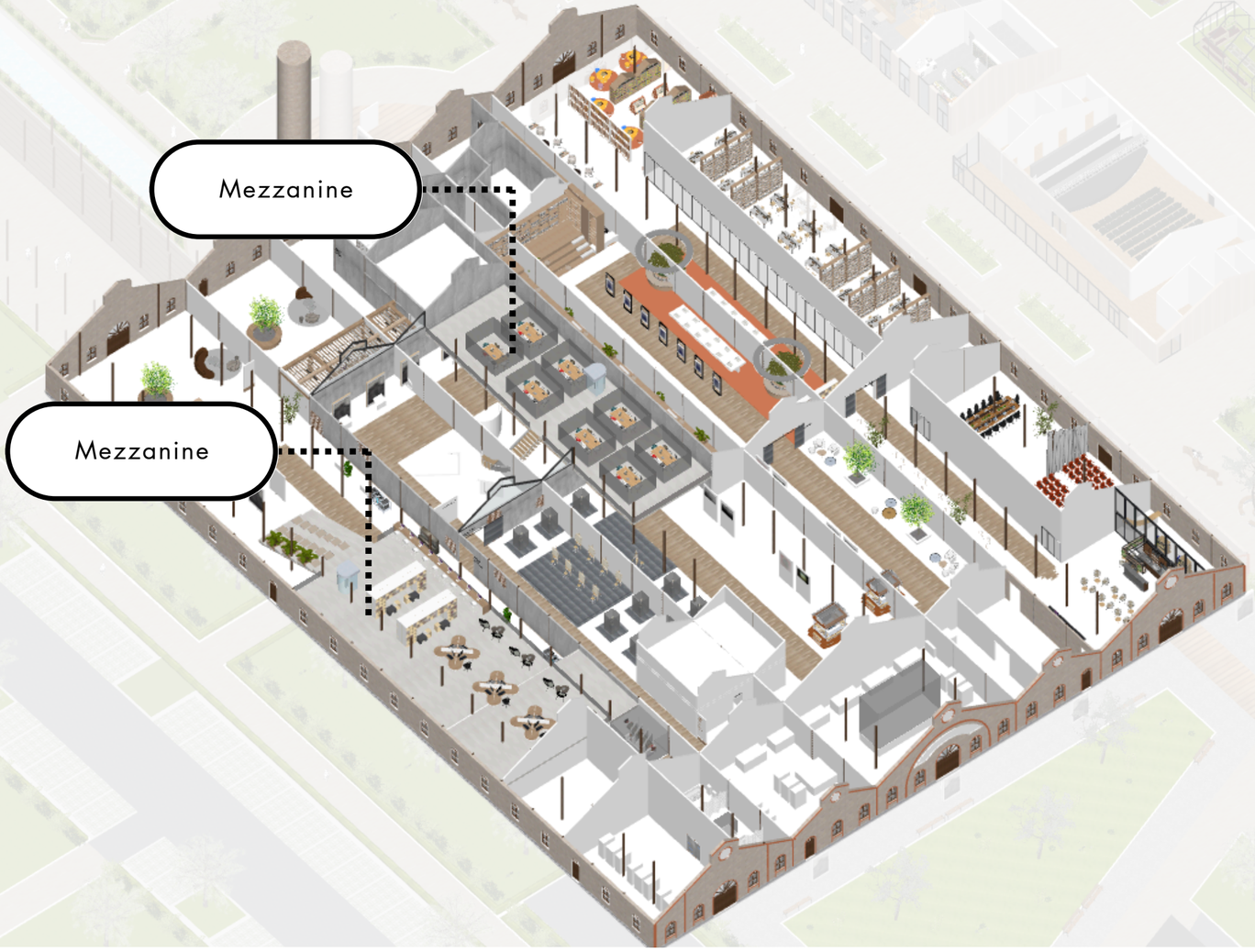




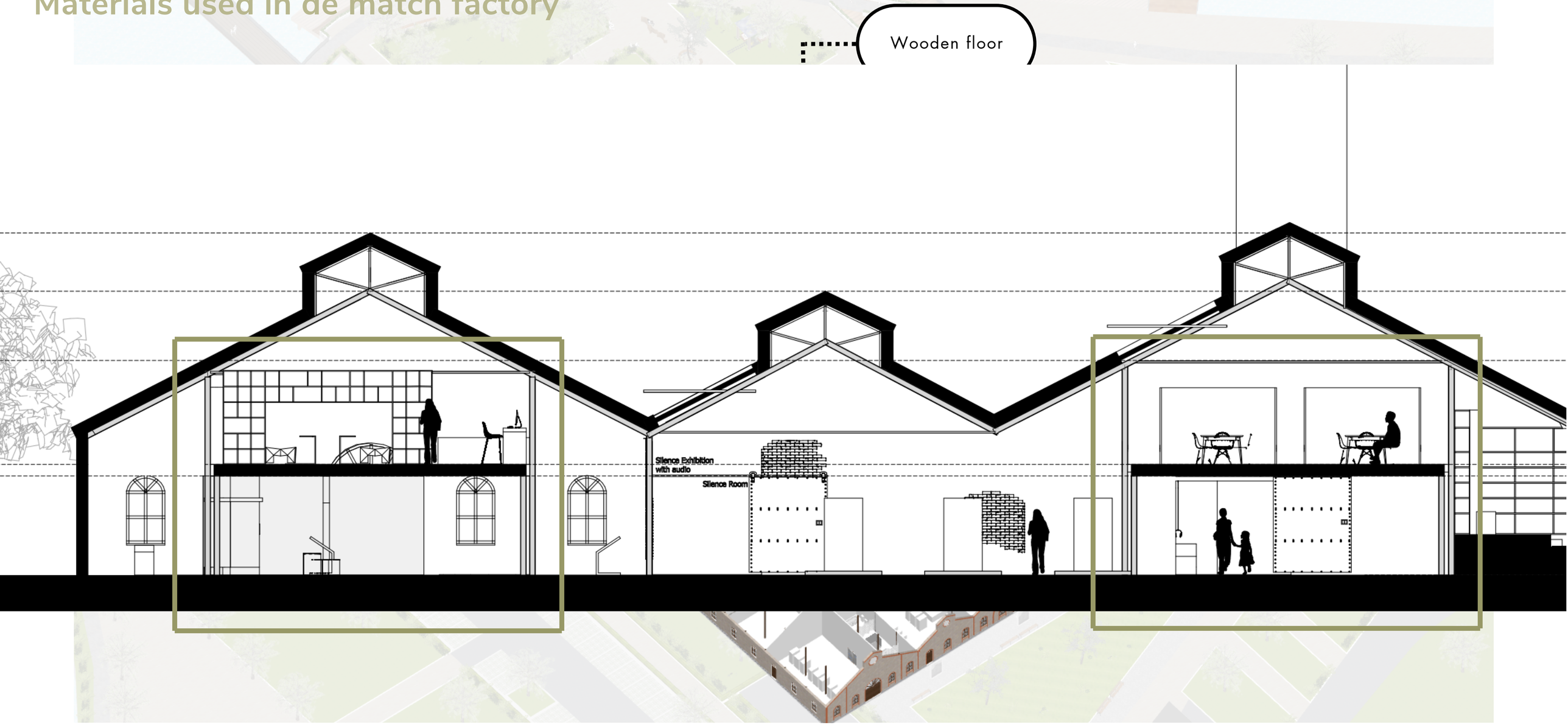


Architectural Design | Menekşe Match Factory

Materials used in de match factory



Materials used in de match factory



Architectural Design | Impression

How does everything come together





EMBRACE THE FUTURE *WITHOUT* ERASING THE PAST

KÜÇÜKÇEKMECE, ISTANBUL

