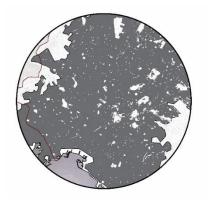
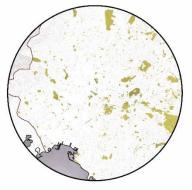


The site: Athens



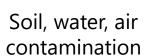
#### Environmental challenges of Athens





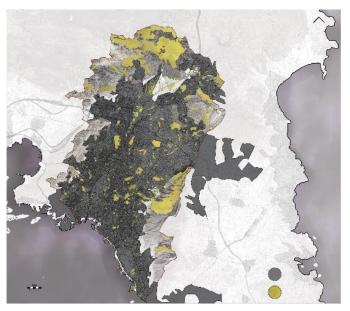
Spatial imbalance of built and green spaces



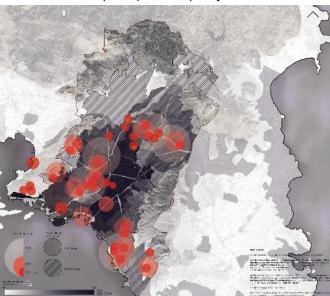




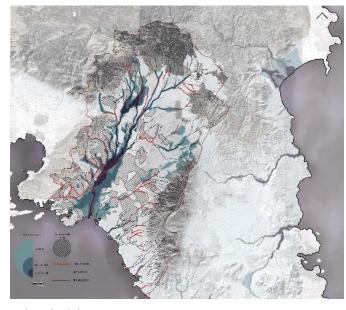
Climate change



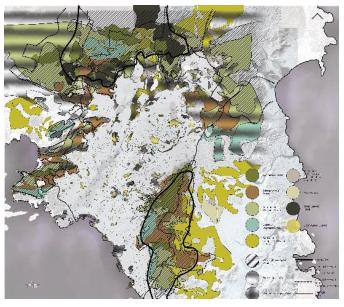
Urbanization | Antiparochi | Polykatoikia



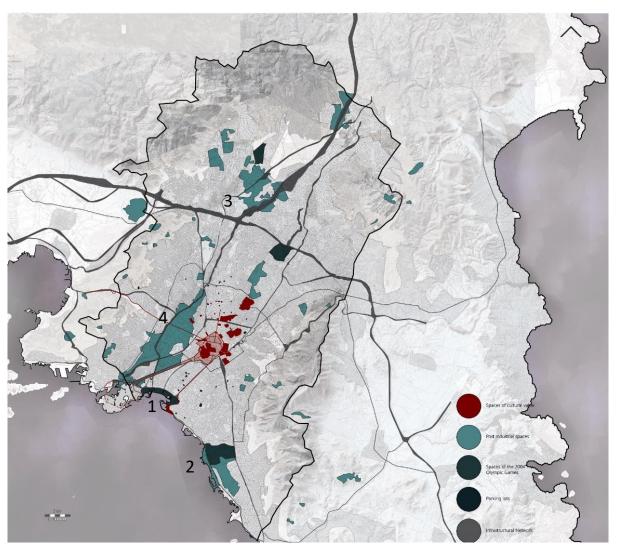
Heat Island Effect



Flood Risk



Medium to low quality of ecosystems





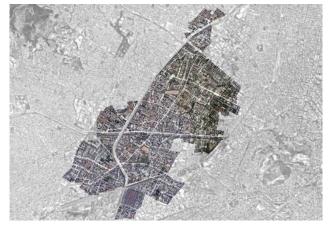
1. Faliron Coast



2. Hellinikon Airport



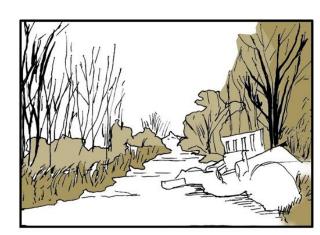
3. Infrastructural Network

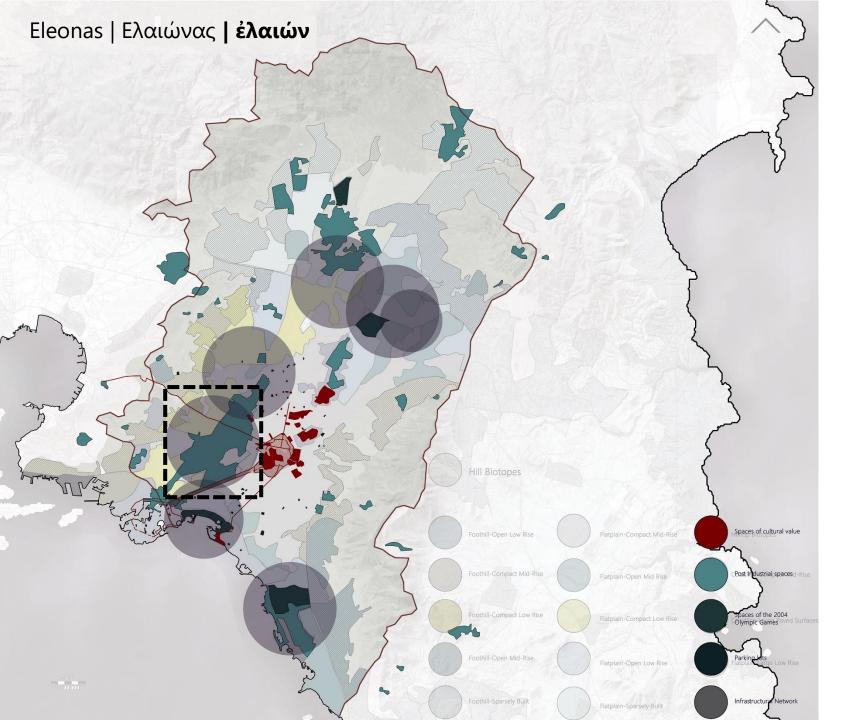


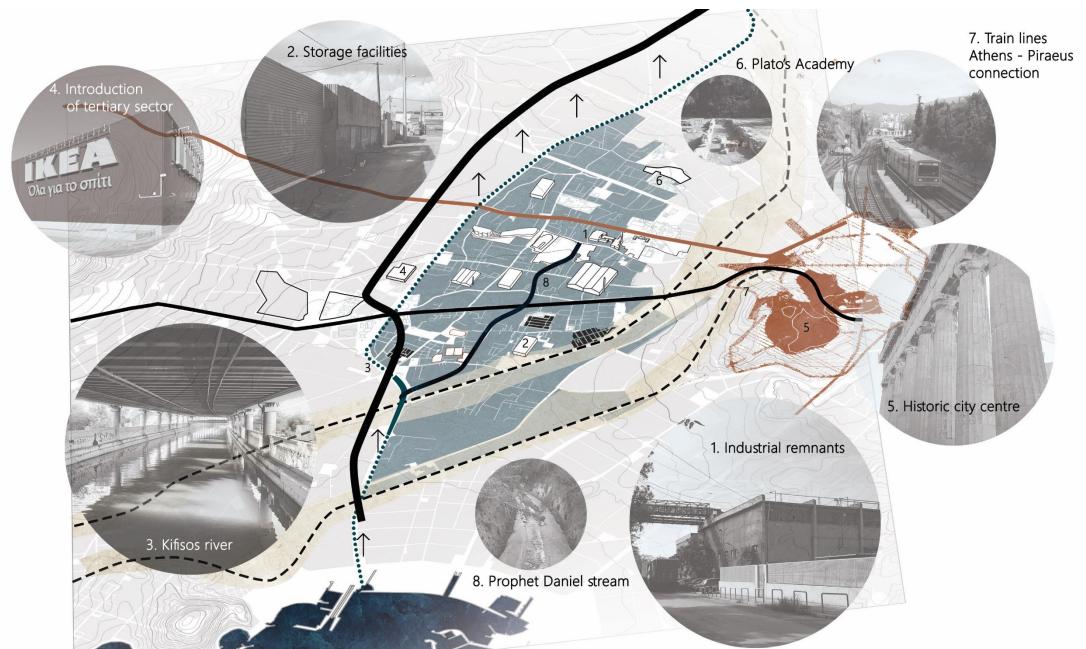
4. Eleonas









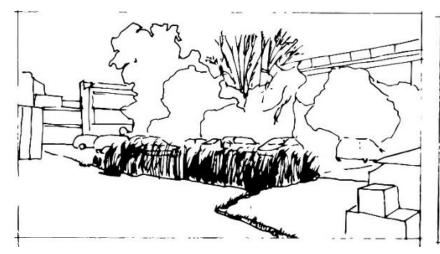


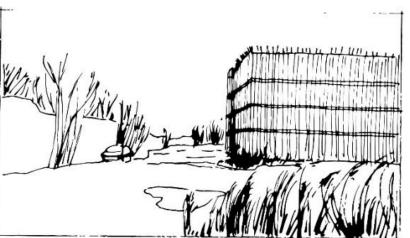
Environmental challenges Urban scale | Eleonas

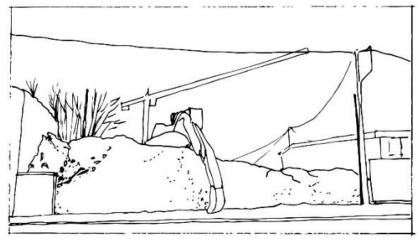


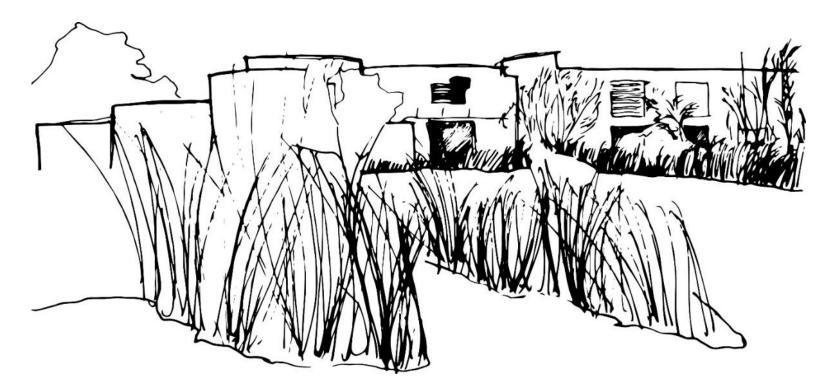


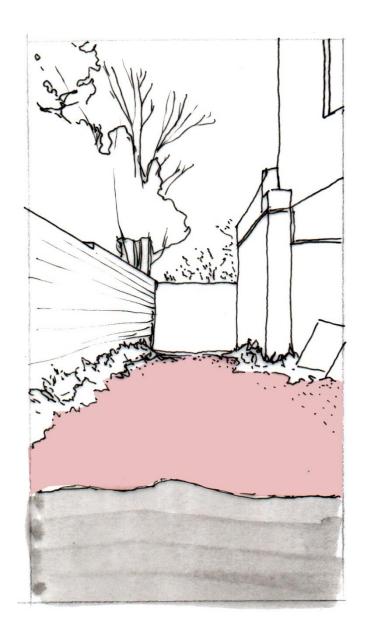


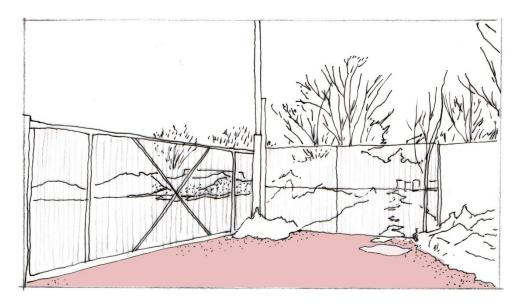


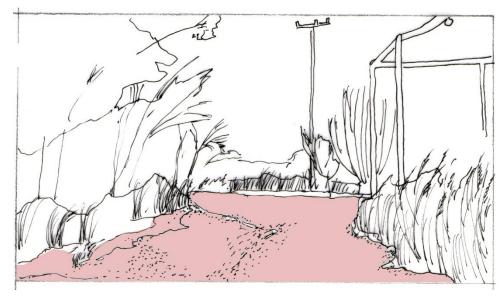












Social challenges Urban scale | Eleonas









#### Terrain Vague

"Empty, abandoned space in which a series of occurrences have taken place [...].

Such urban space, which I will denote by the French expression **terrain vague**, assumes the status of fascination, the most solvent sign with which to indicate what cities are and what our experience of them is."

Ignasi de Solà-Morales, 1995

#### **THIRD SPACES**



"Wastelands"

"Urban Voids"





## Third Landscape | Délaissés

Neglected spaces (délaissés) result from the abandonment of an activity and they evolve into a secondary landscape. [...] A strong dynamic characterizes the secondary landscapes. A neglected space quickly welcomes pioneer species which soon disappear in favor of increasingly stable species until a balance is achieved. The secondary landscapes are heterogeneous and chaotic.

Gilles Clément, 2004





#### **THIRD SPACES**





"Wastelands"

"Urban Voids"





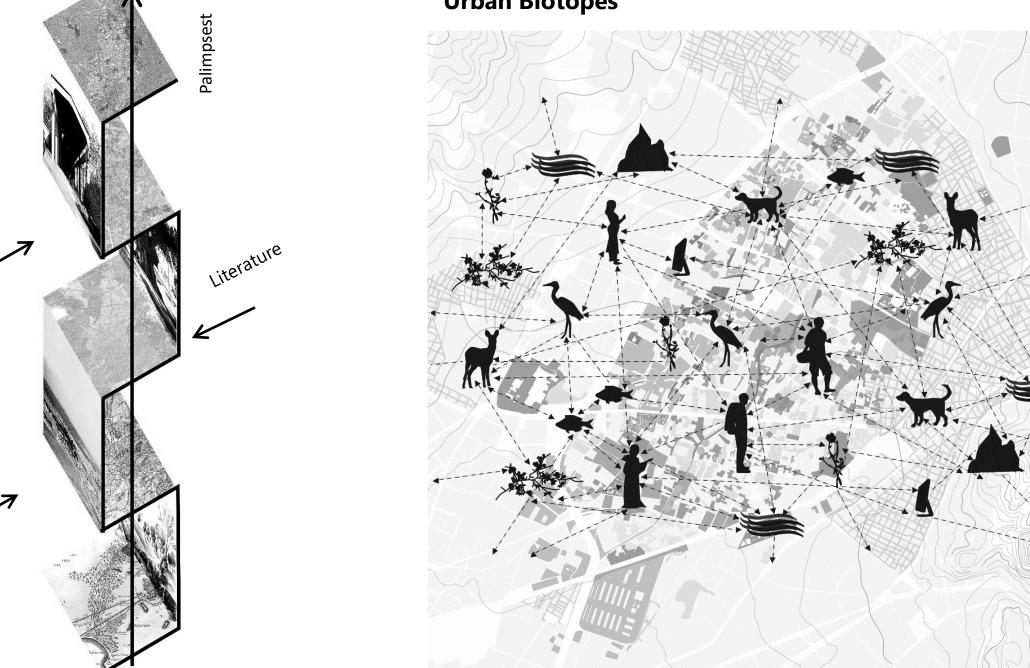
## **Third Spaces**

- All types of places that constitute a territory of refuge for biological diversity. As a result of their abandonment, the Third spaces evolve into secondary landscapes that are colonized by pioneer species and perform ecological services.
- Spaces of **aesthetic variety**. The wild, untended vegetation comes in contrast with the maintained vegetation of urban green spaces, thus attributing aesthetic variety to the urban setting
- Spaces of **cultural value**

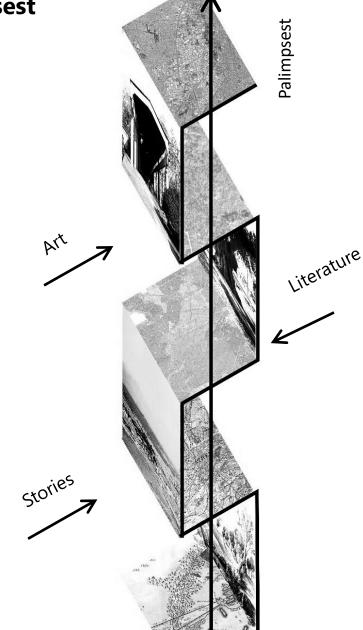




## **Urban Biotopes**



**Palimpsest** 



## A multiscalar approach

Regional Scale: Attica Basin

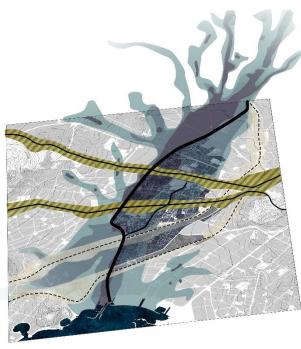


Drainage basin of the rivers and

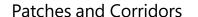
streams of Athens

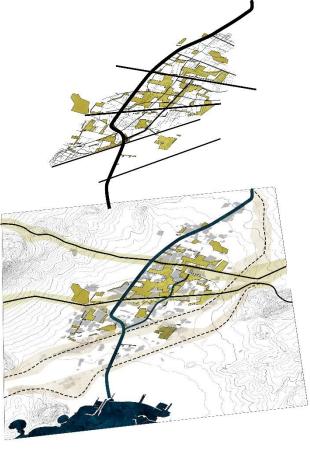
**AREA OF EFFECT** 

**Urban Scale: Eleonas** 



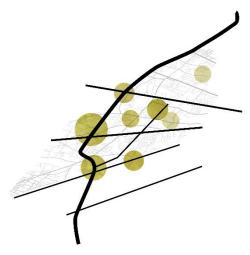
- Forces that act upon Eleonas and definition of the areas these forces affect
- AREA OF INFLUENCE



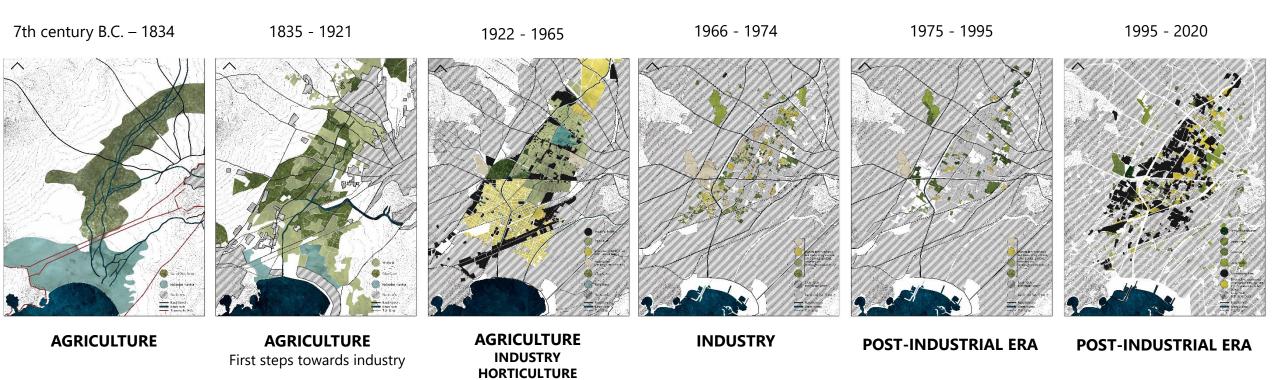


- Identified patterns
- AREA OF CONTROL
- Product: Masterplan of landscape architectonic design for the ruderal landscapes

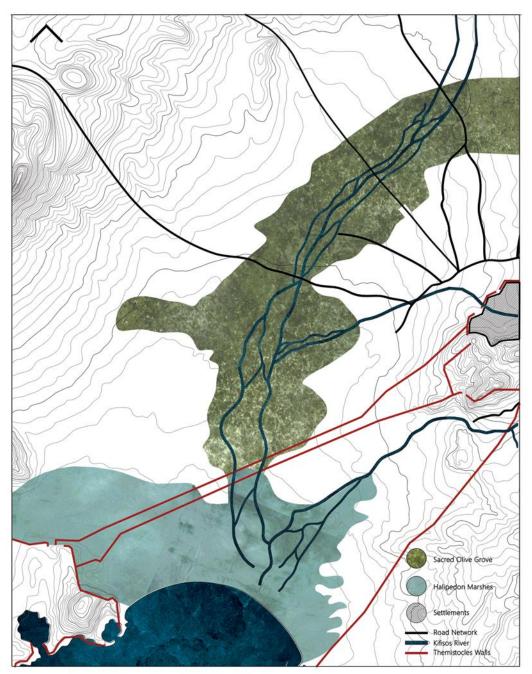
#### Segments



- Selection criteria:
  - Ecological conditions and challenges
  - Level of accessibility
  - Cultural significance
  - AREA OF CONTROL
  - Product: Landscape architectonic design



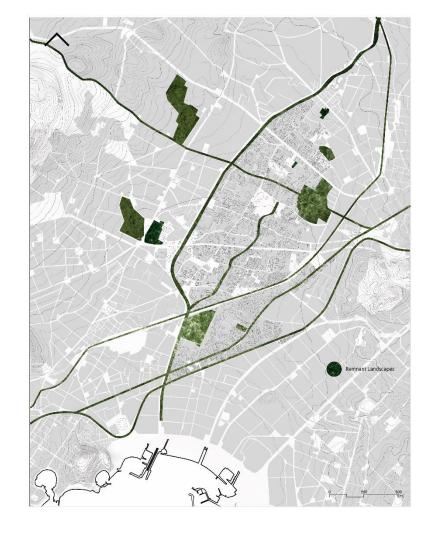
7th century B.C. – 1834: AGRICULTURE

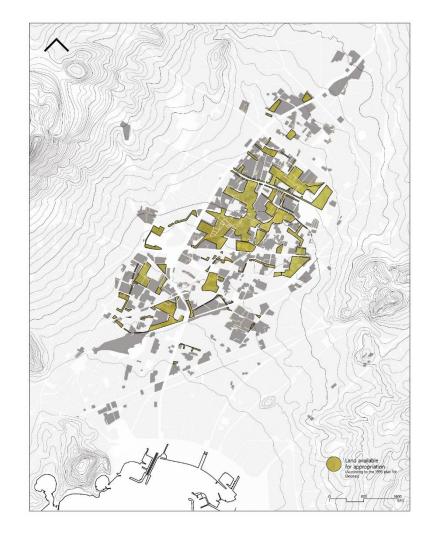




"As for this place, it is clearly a holy one Shady with vines and olive trees and laurel; A covert for the song and hush of nightingales In their snug wings"

Sophocles, Oedipus at Colonus





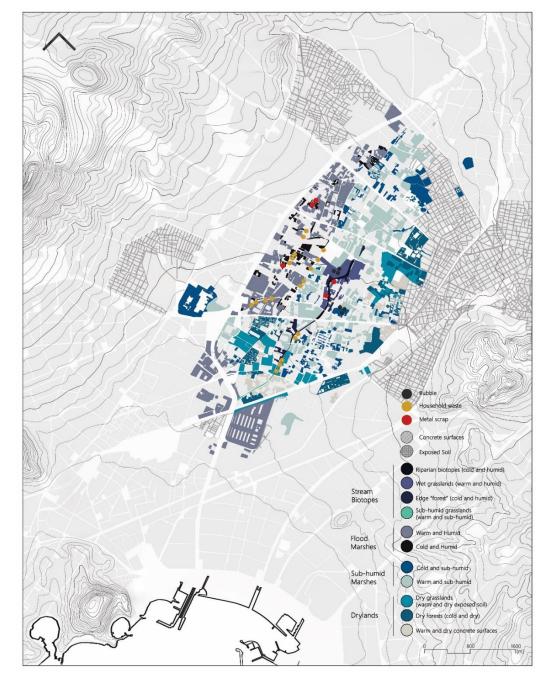
Remnant Landscapes

Third spaces

Areas available for appropriation (1995 Master Plan for Eleonas)

#### Criteria:

- Temperature (Summer-Winter)
- Presence of water
- Presence of shade
- Surface materials (exposed soil/concrete surfaces)











Riparian Biotopes Prophet Daniel Stream



#### Urban scale | Eleonas



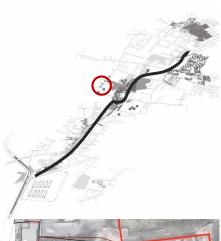




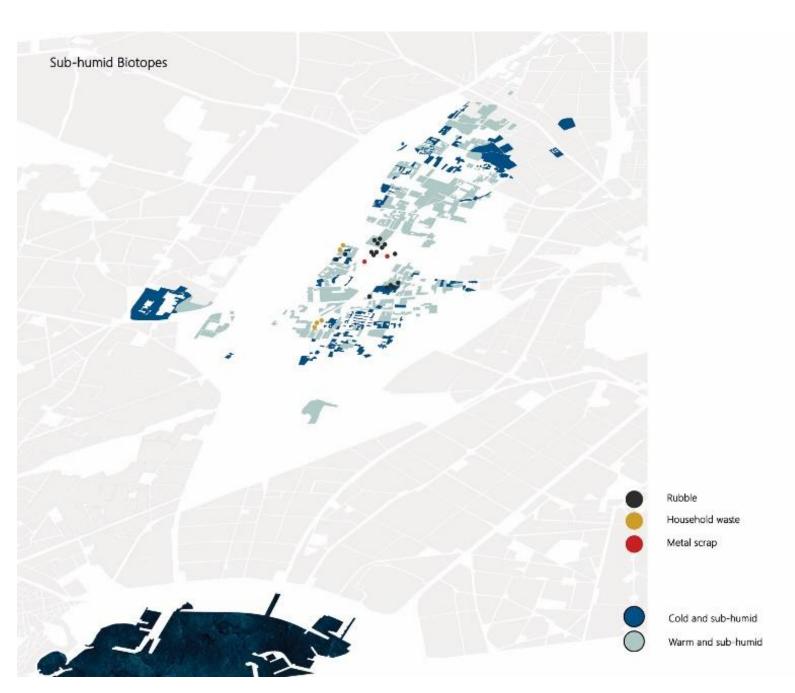


Flood Marshes Prophet Daniel Stream





#### Urban scale | Eleonas







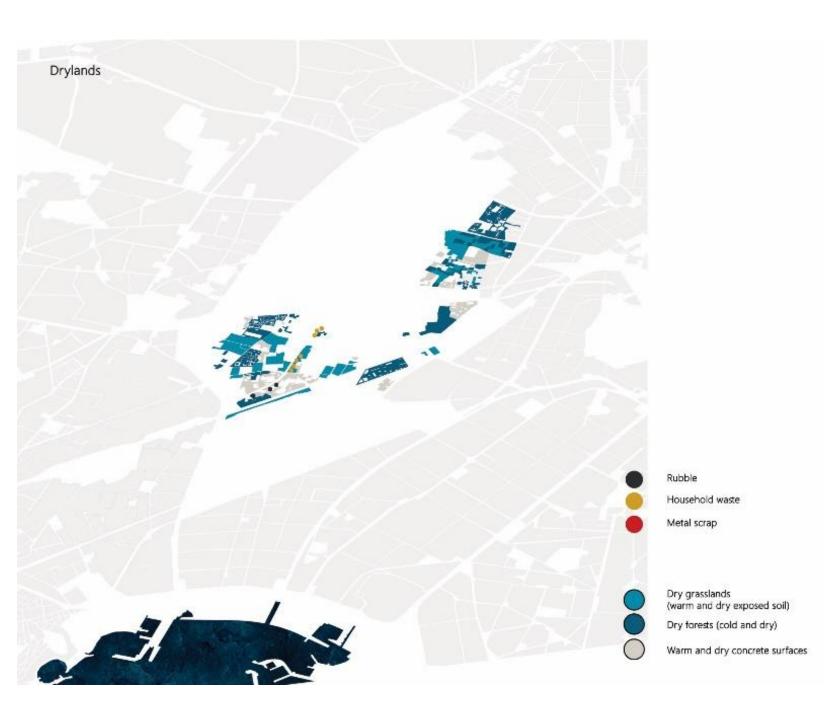


Sub-humid biotopes Prophet Daniel Stream









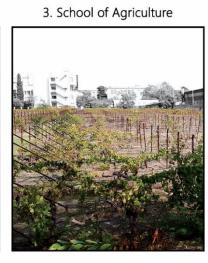




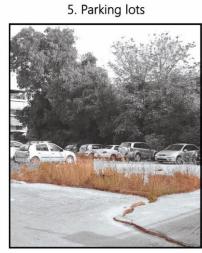


1. Plato's Academy











Zero Maintenance

Materiality

Constant Maintenance



















Vegetation





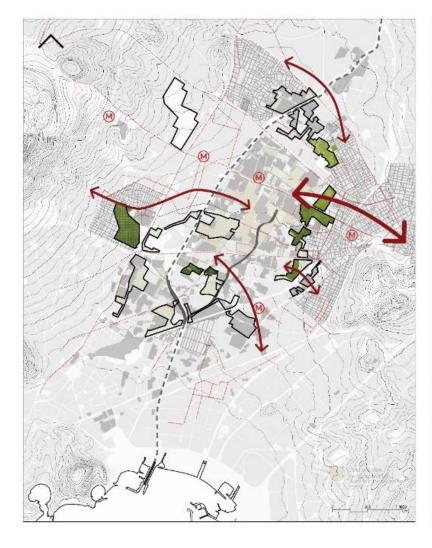




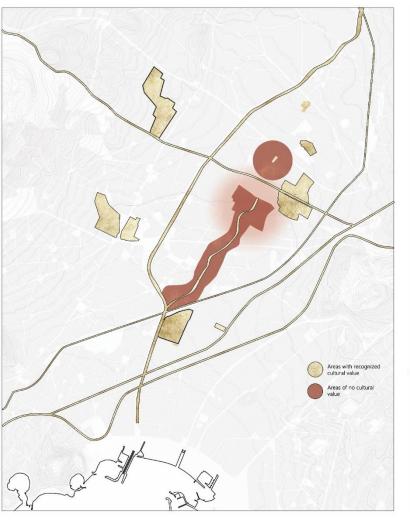




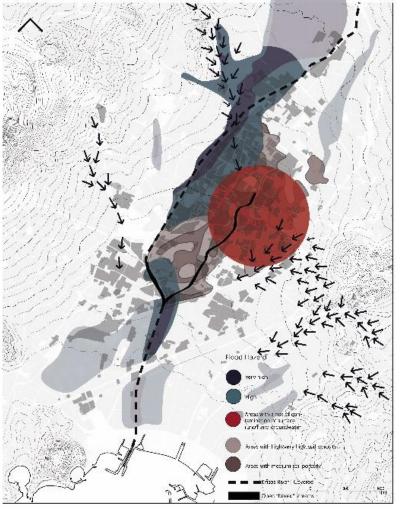
Creating connections



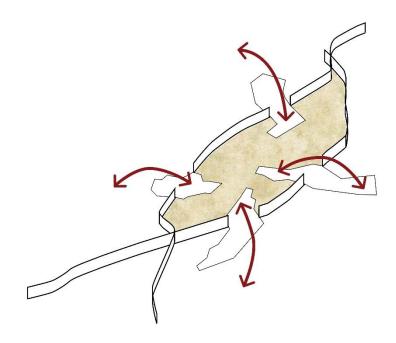
Activating existing anchors



Working with natural processes

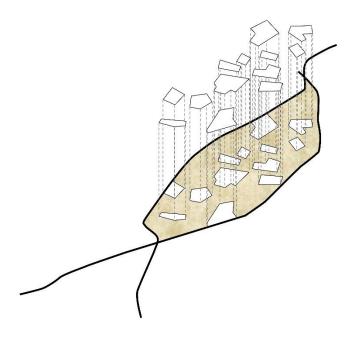


#### **Creating connections**



Invert the introvert character of the Third space and transform it into an accessible and permeable space.

## **Identifying and utilizing the voids**

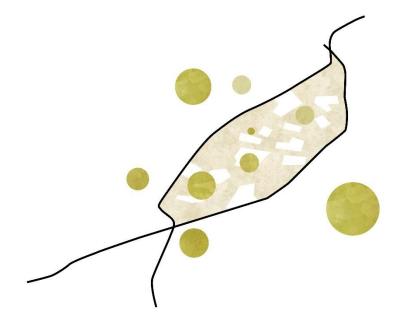


The landscape architectonic design starts from the open spaces.

The buildings found in the site are in the background, playing a secondary role in the design. The design is determined by what should not be built.

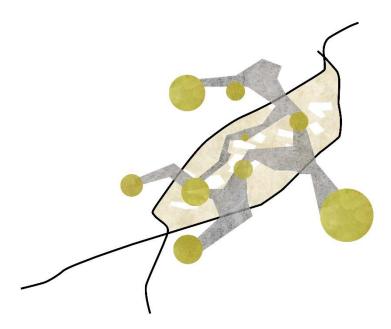
#### **Introducing new layers & activities**

## **Activating existing "anchors"**

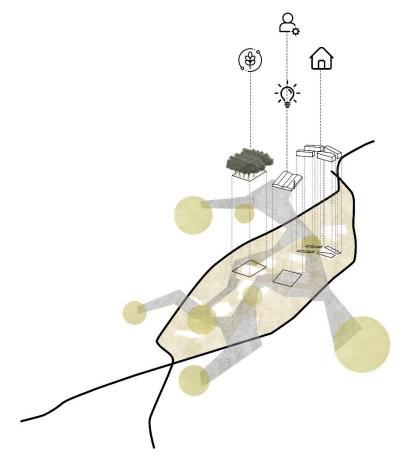


Identifying and recognizing the cultural value of remnant landscapes.

## **Creating networks**

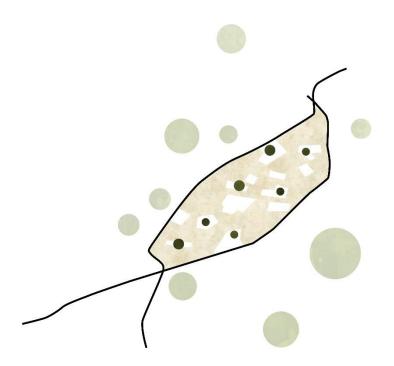


Creating new networks of connections between the anchors and the context. Use of the Third spaces as the connecting element.



Different levels of intervention New elements New activities Re-purposing & recycling of the existing building stock

## **Enhancing Ruderal Refugia**



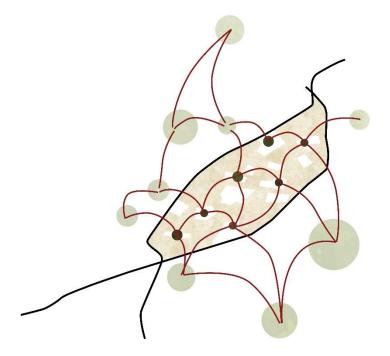
Third spaces with exposed soil and a strong presence of spontaneous vegetation. Patches that present the opportunity to enhance the ecological continuum of the Third space.

*Ecological succession: Unhindered process* 

Areas of zero maintenance and human interference.

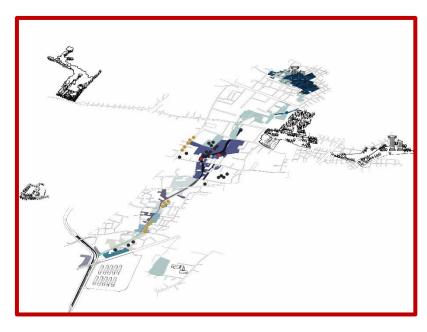
Introduced for scientific observation and aesthetic variety.

# Creating stepping stone connectivity between biotopes





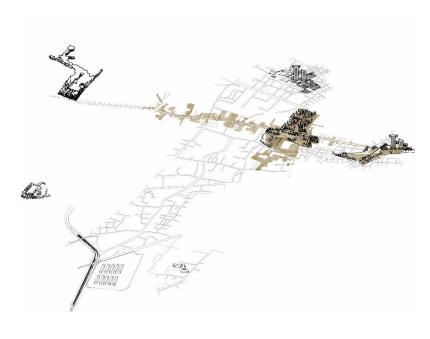
#### The Prophet Daniel stream



The flood marshes



The Sacred Road | Iera Odos



Inversion of the "introvert" character of the stream by accessing the Third spaces through the dead ends.

Transformation into a spine of public spaces that connect Plato's Academy from the north to the open part of Kifisos river in the south.

Introduction of activities related to ecology, education and recreation.

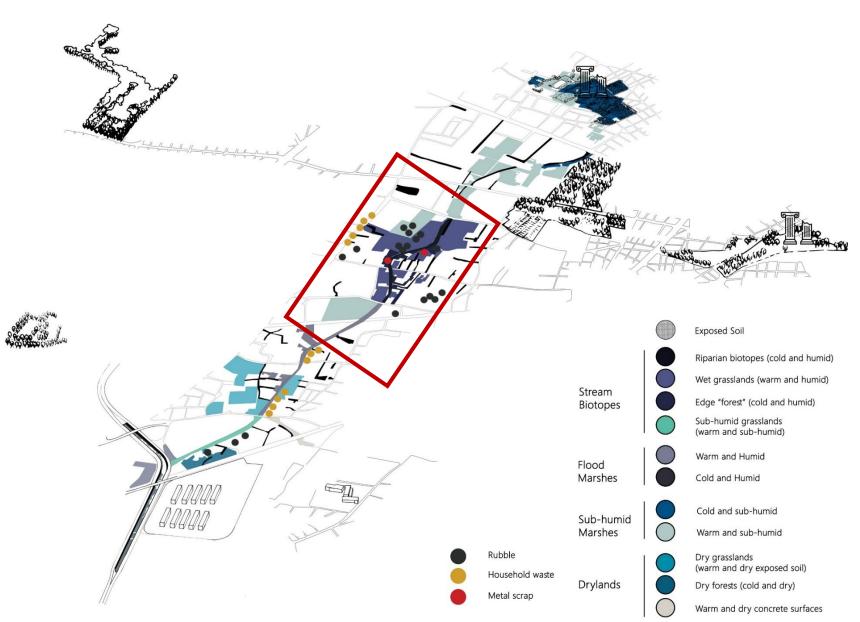
Use of dead ends and Third spaces to dissolve the "labyrinth" sense of the space

Use of flood events to hold and recycle rainwater.

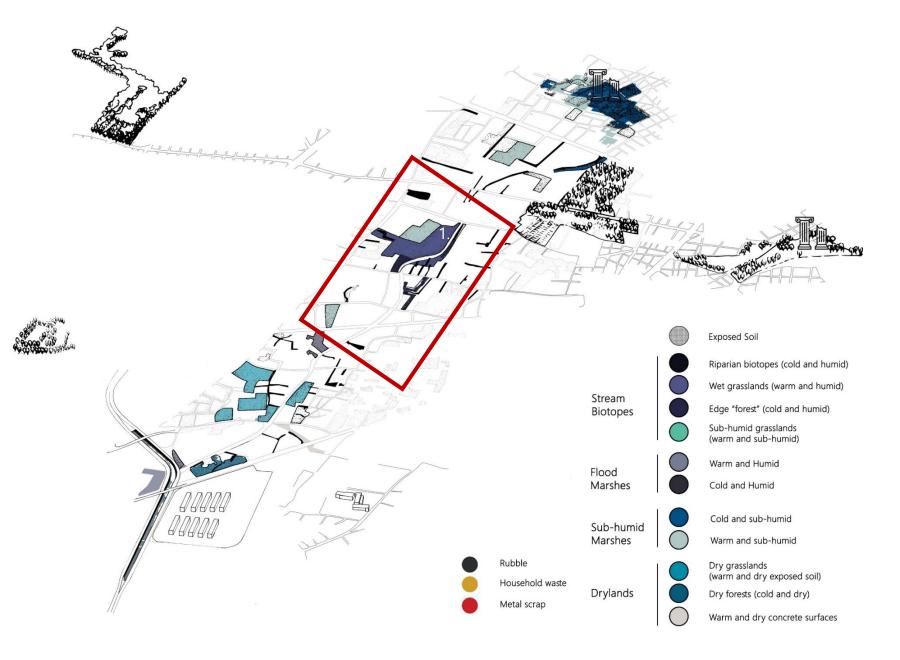
An urban corridor with pockets of ecology.

STREAM PROJECT | PROPHET DANIEL STREAM









### Ruderal Refugia

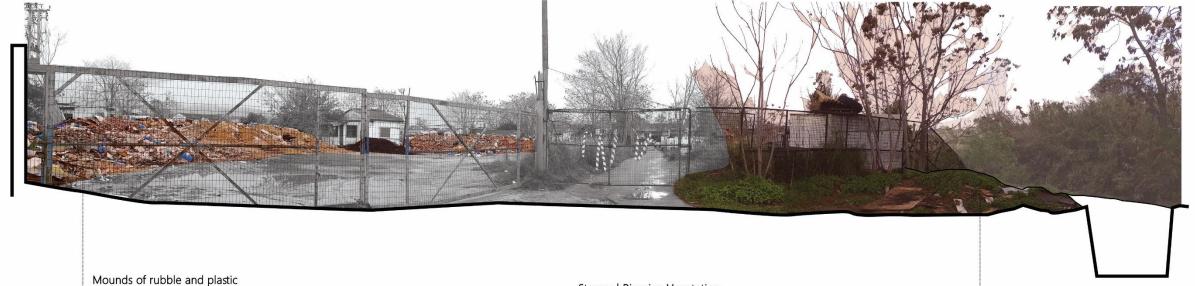
Third spaces with exposed soil and a strong presence of spontaneous vegetation. Patches that present the opportunity to enhance the ecological continuum of Eleonas.

*Ecological succession: Unhindered process* 

Areas of zero maintenance and human interference.

Introduced for scientific observation and aesthetic variety.





Mounds of rubble and plastic opportunity for new spatial qualities & ecological diversity



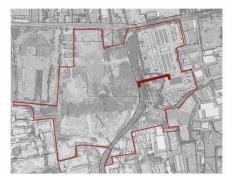


Stream | Riparian Vegetation











Stream | Riparian Vegetation















Mounds of excavated soil opportunity for new spatial qualities



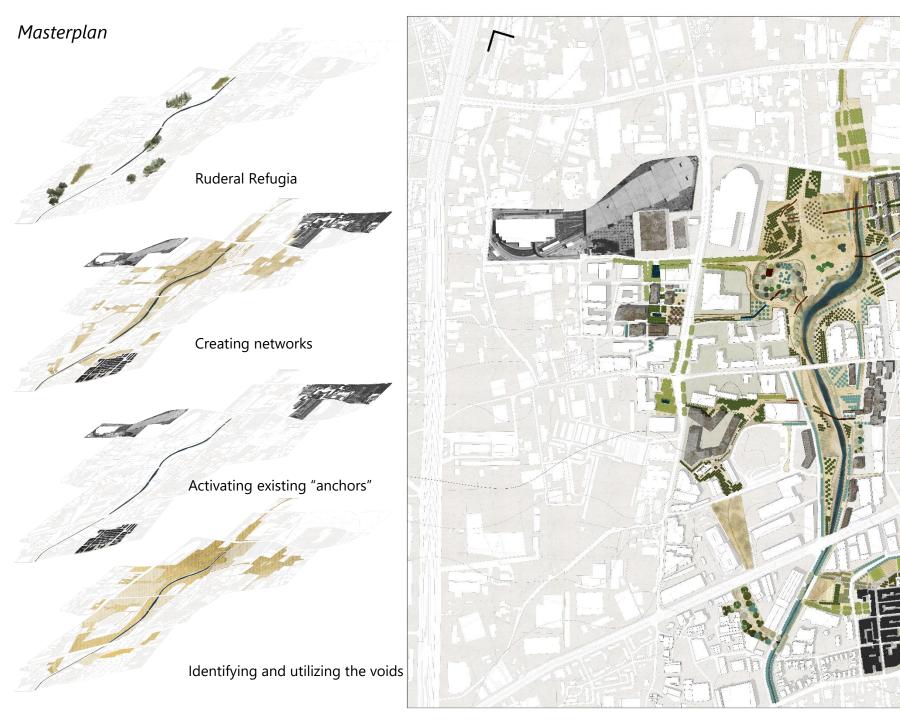
Vegetation along the walls

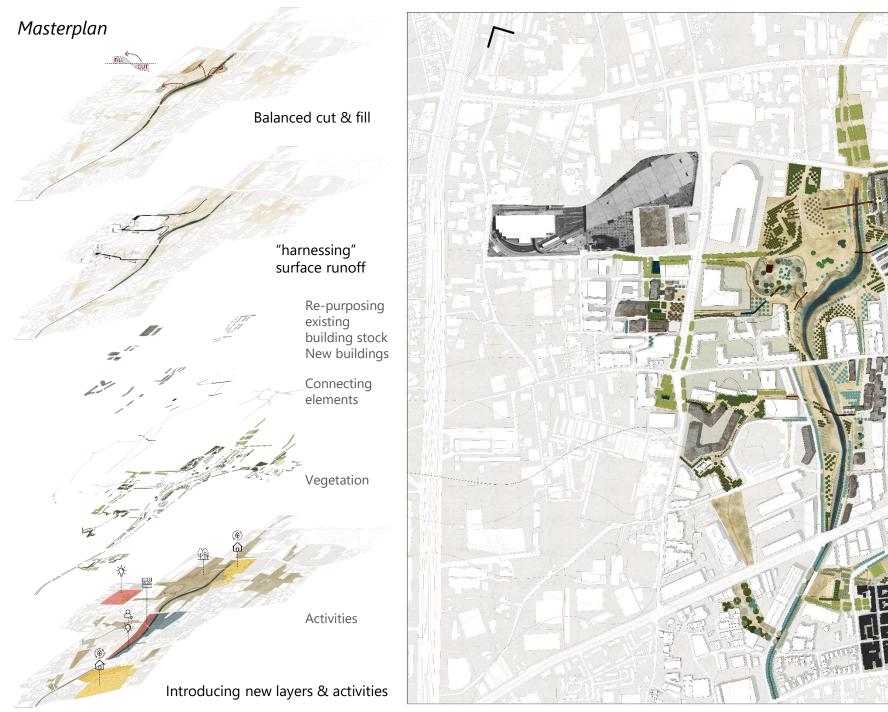


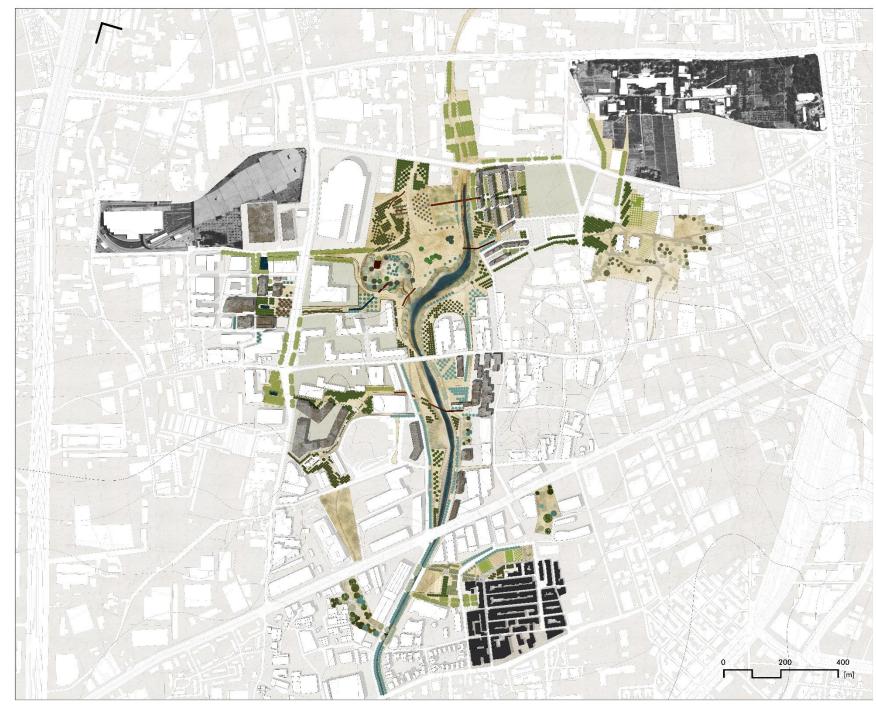


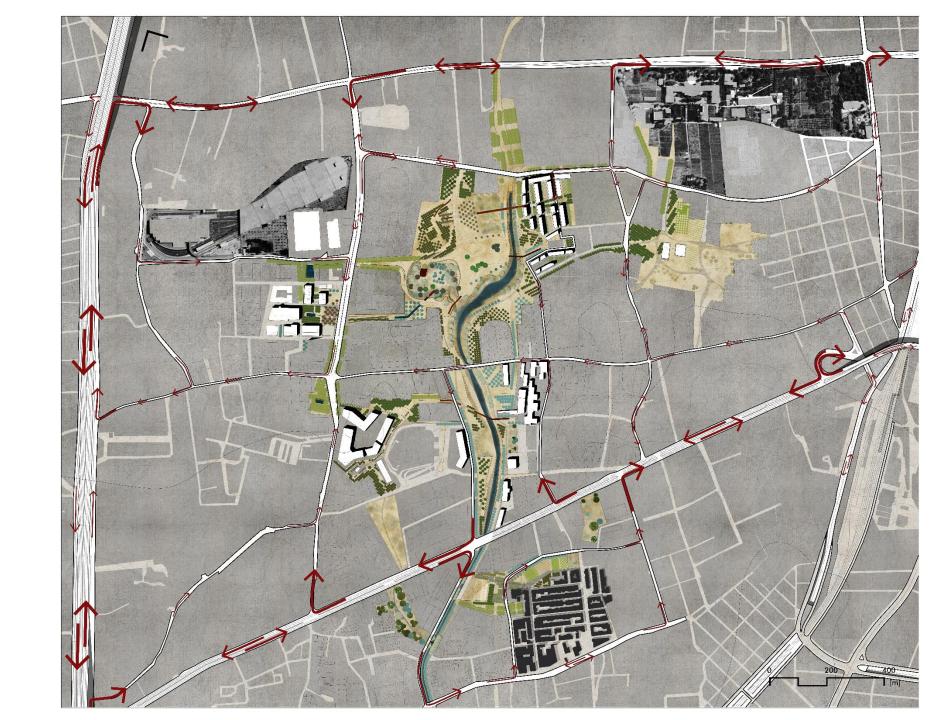
Third spaces | The flood marshes

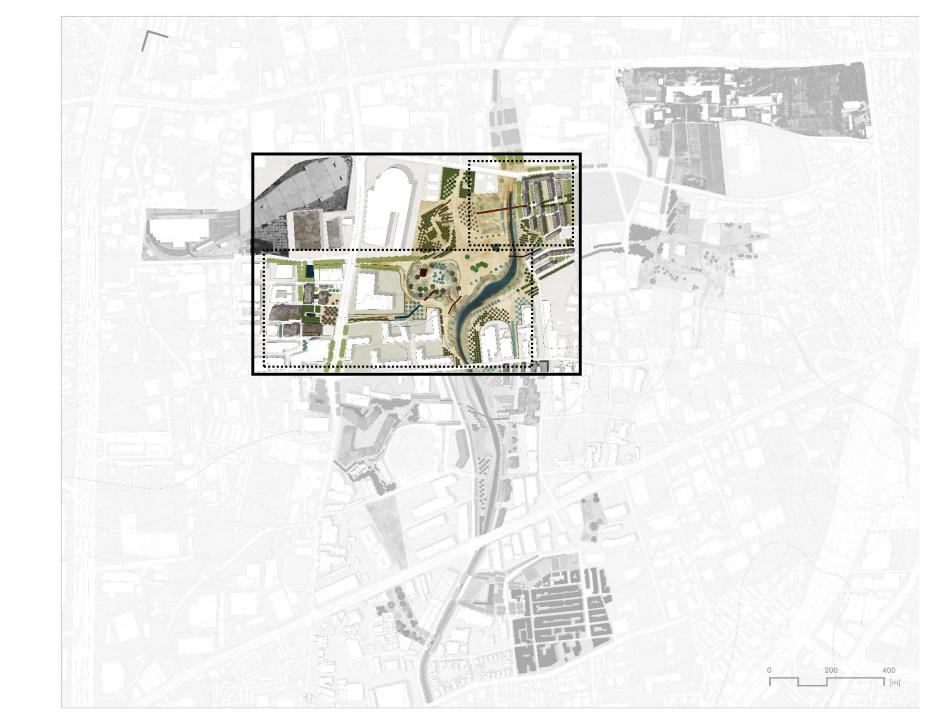






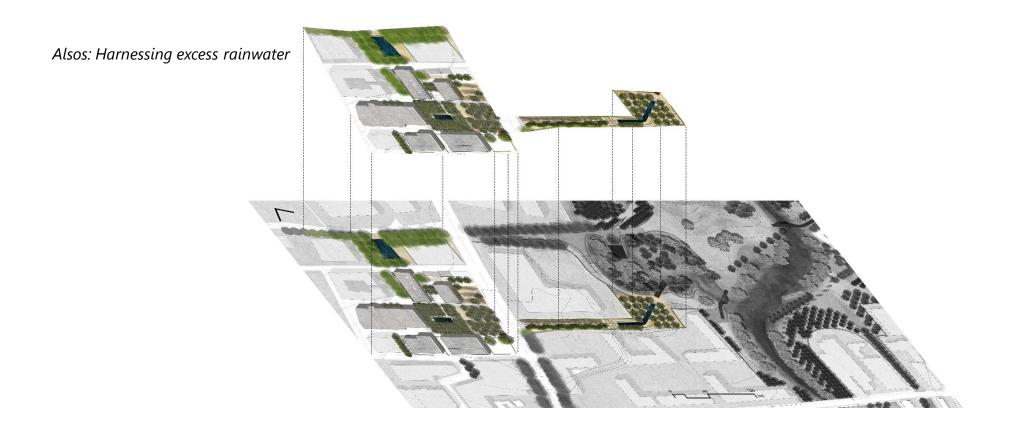


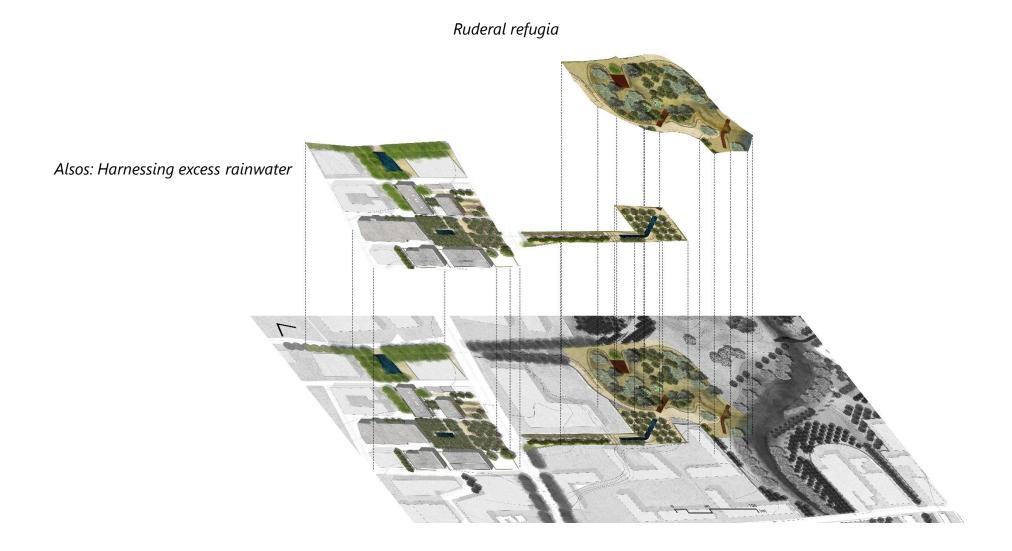


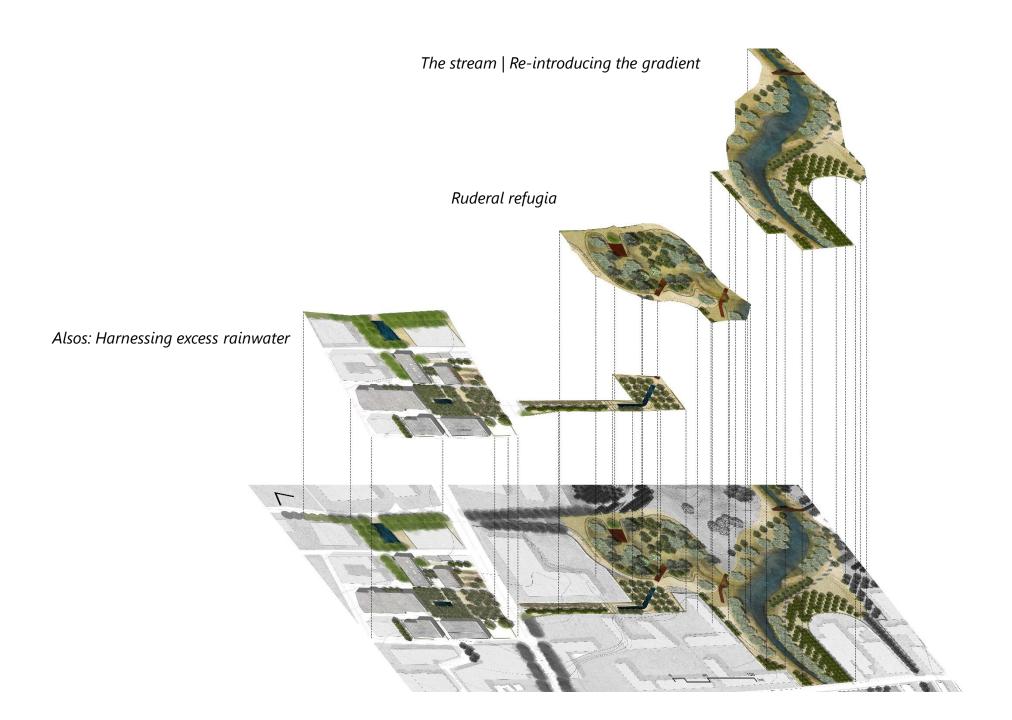


The flood marshes 25 years from now









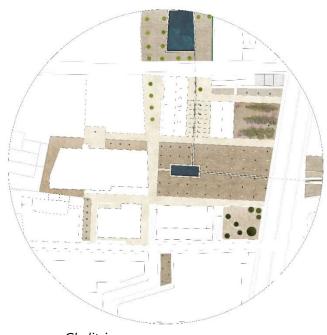
Alse | Sacred Groves Prophet Daniel Stream







PHASE 1: 5 YEARS



Gleditsia (Gleditsia triacanthos)



Olive tree (Olea europaea)



Almond tree (Prunus dulcis)

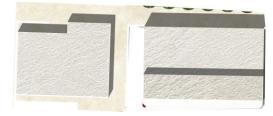


Poplar (Populus alba)



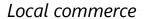
PHASE 2: 10 YEARS













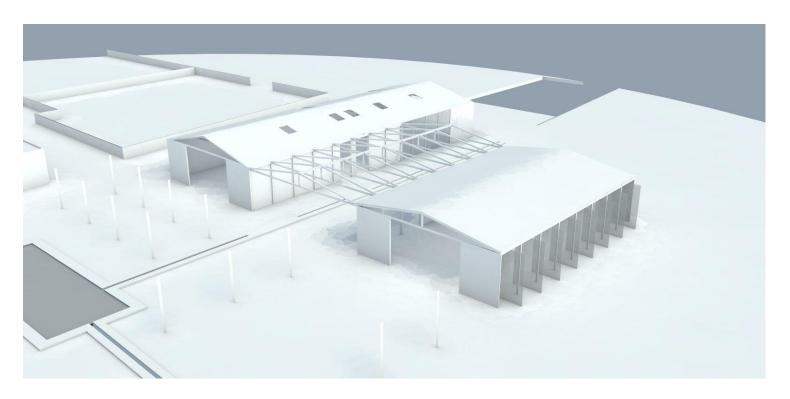
PHASE 3: 25 YEARS

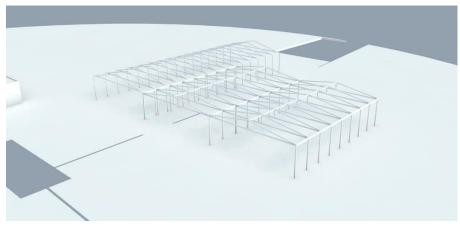


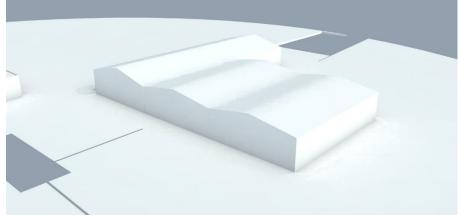
Introduction of student housing

Startup companies recreation

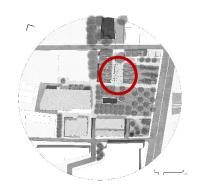
Re-purposing existing buildings Prophet Daniel Stream

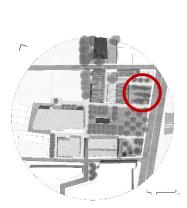












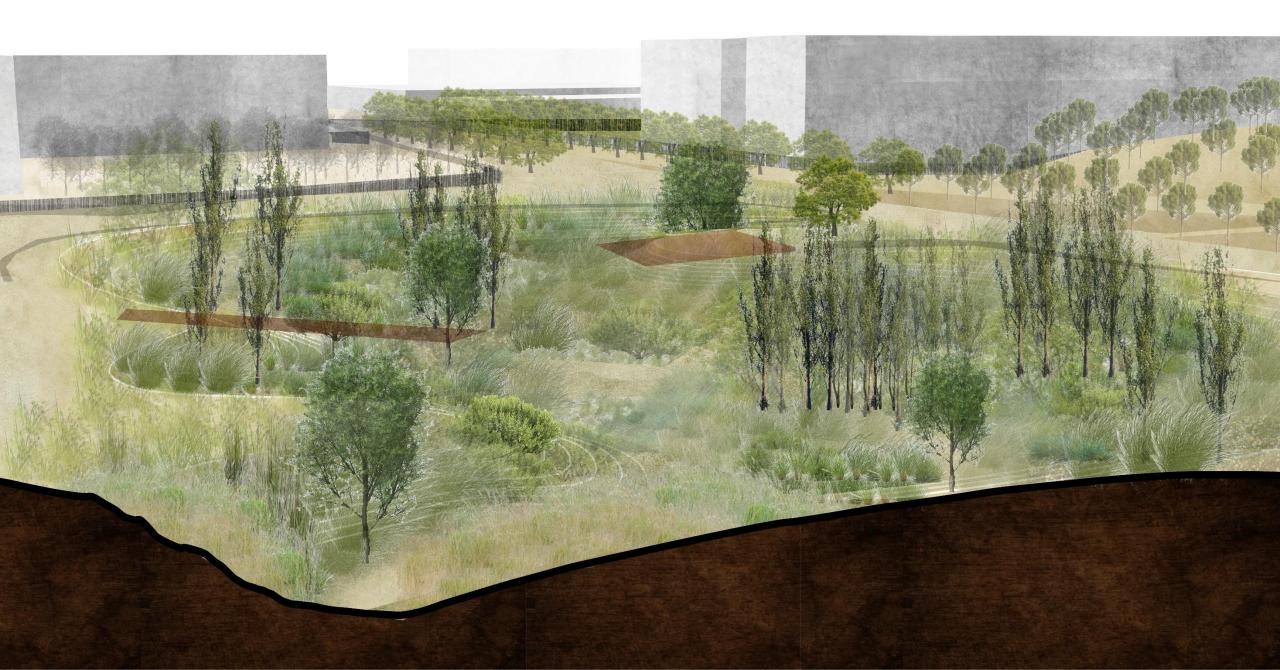








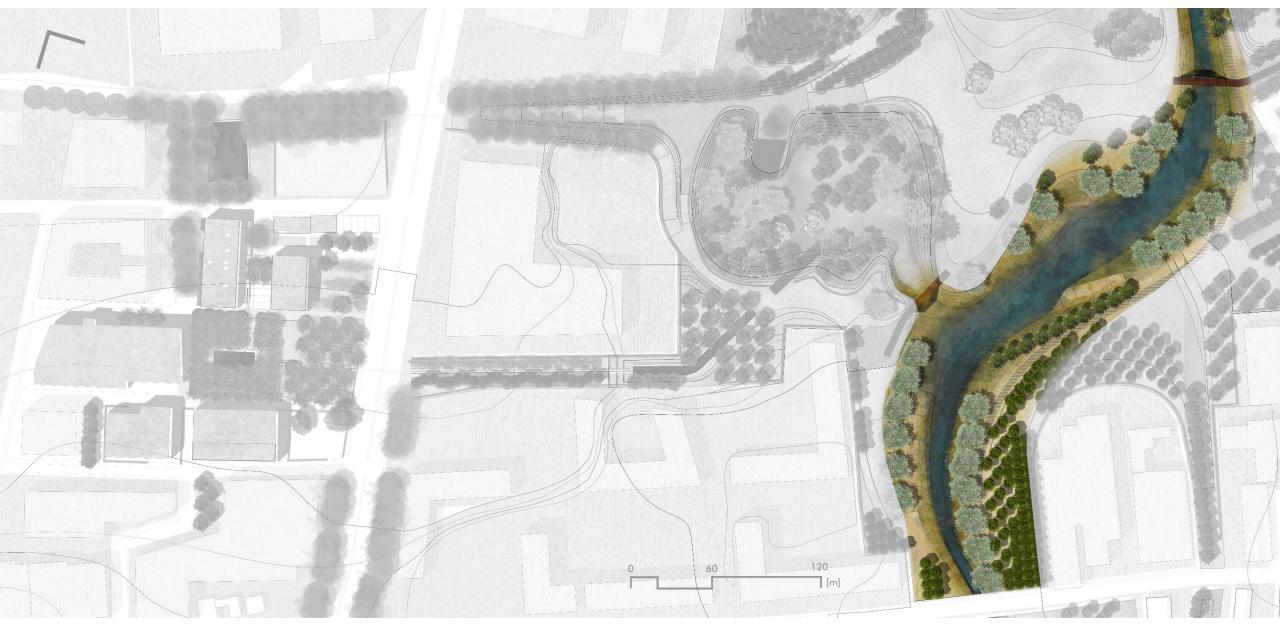
Ecological Succession | 10 years Prophet Daniel Stream

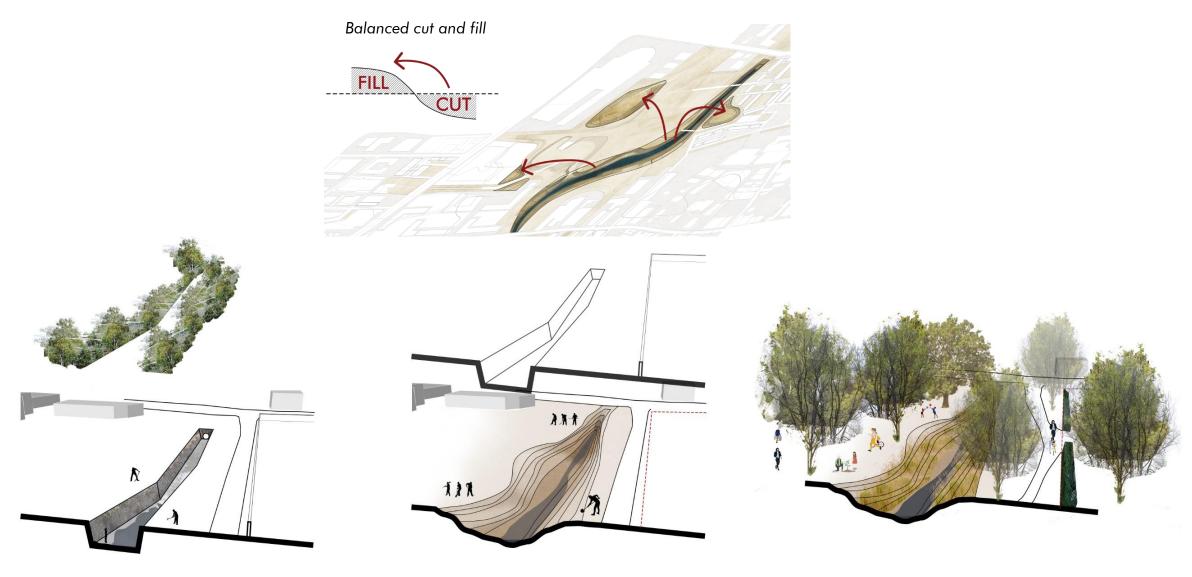




The stream

Prophet Daniel Stream





Breaking down the concrete boundary of the stream.

Changing the stream edges

Creating a gradient











### Existing condition

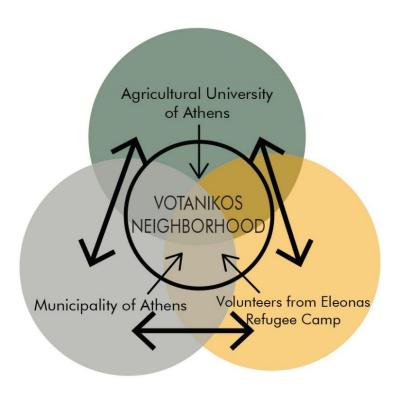
1. Eleonas Refugee Camp:

Since 2015 Currently hosting 1470 refugees in 297 units (containers)

#### A TEMPORARY FACILITY

- 2. Prophet Daniel Stream
  A natural boundary to the camp
- 3. Soil contamination from industrial activities
- 4. Existing anchors nearby: Agricultural University of Athens











# Phase 1 | 5 years

Transformation of existing public spaces

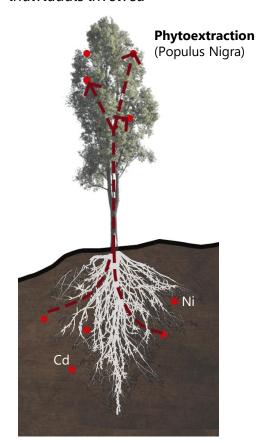
Creating connections with the stream & the ruderal refugia

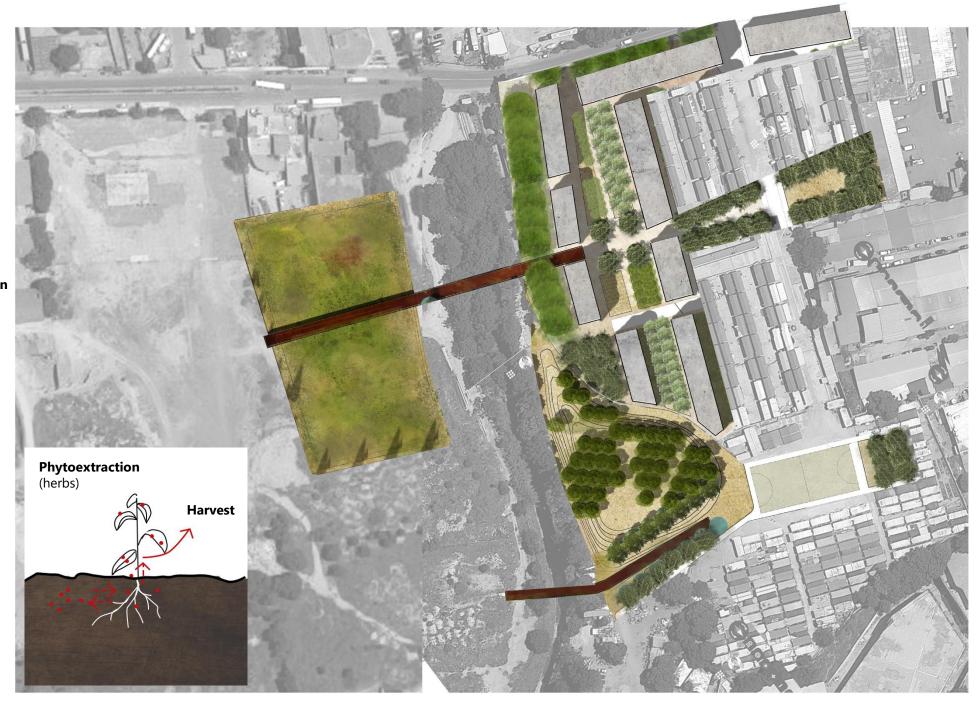


# **Phase 2 | 10 years**

Forming the first communal gardens for the purpose of Soil remediation

Social integration for all individuals involved





## Phase 3 | 15 years

Introduction of orchards of citrus trees, pomegranate, herbs and vineyards in the remediated soil. Cultivation and maintenance of the orchards are a shared responsibility between refugees and permanent population.

The orchards become a source of income for the refugees.

Forming the second communal gardens for the purpose of Soil remediation
Housing for both refugees and locals

Social integration for all individuals involved. Creation of social bonds.



## Phase 4 | 20 years

The soil is adequately clean.
All the orchards are cultivated
and maintained by both refugees
and permanent residents.

In an attempt to enhance social integration, new residential blocks are introduced, housing both refugees and local inhabitants.

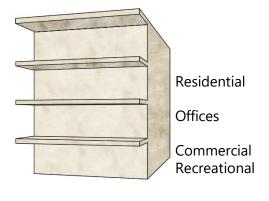


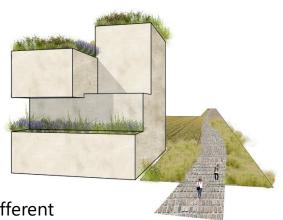
## Polykatoikia the multifunctional:

Residential Commercial Recreational

Ecological Social



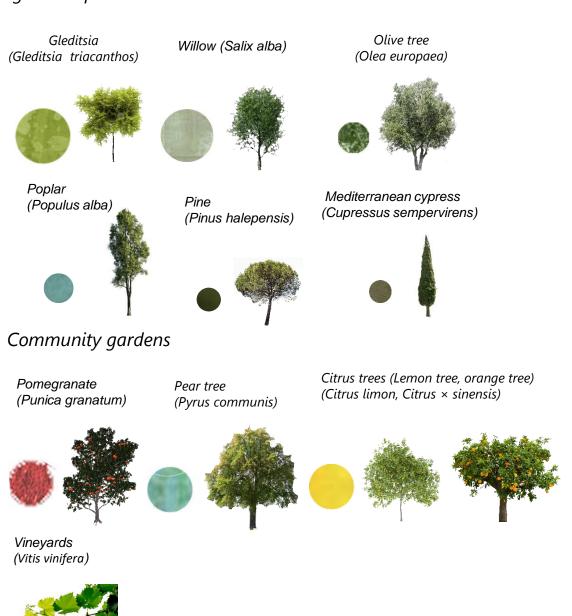




Creating different conditions for ecology



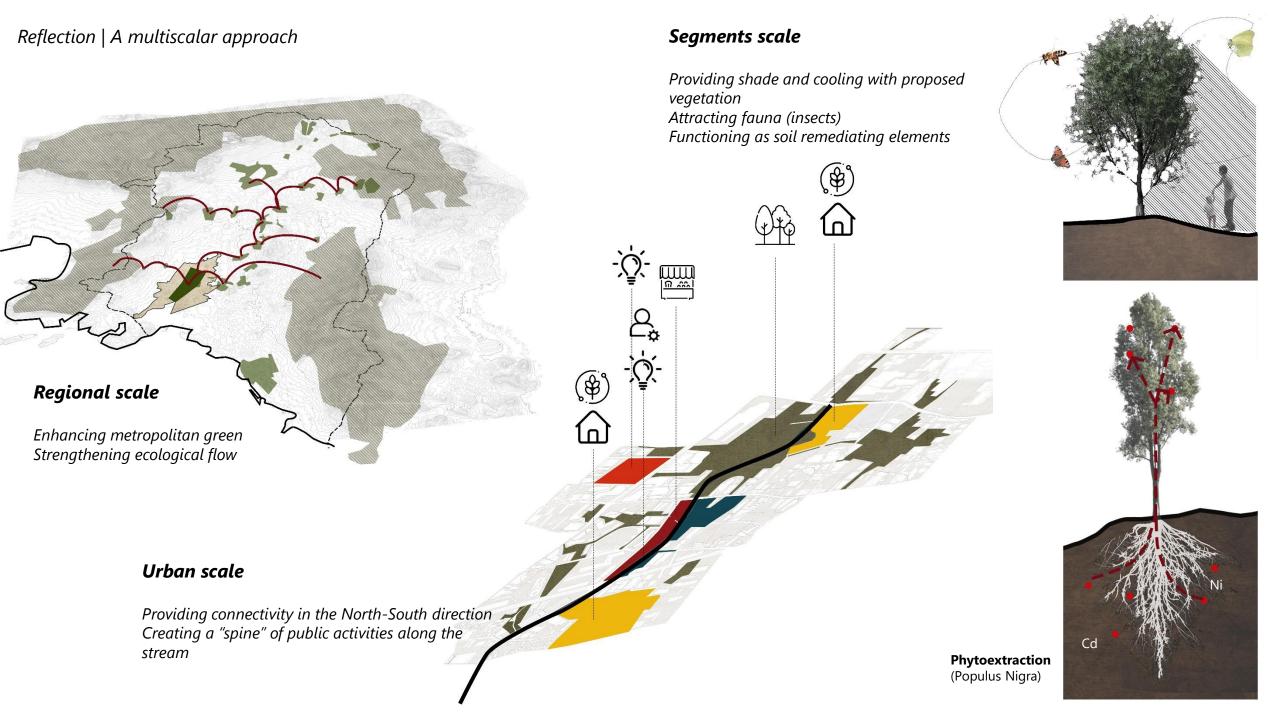
#### Vegetation plan













Stavros Niarchos Foundation Cultural Center



Park am Gleisdreieck, Berlin



Stavros Niarchos Foundation Cultural Center



Park am Gleisdreieck, Berlin











Ruderal Refugia

The stream

Votanikos neighborhood

Alsos

No human interference

High levels of human interference