

TECHNICAL DOSSIER

Title of the project "Waterscapes: Revealing the terrain of Attika's Picrodaphne stream"
Authors Antzoulafou Christina & Kosmidi Maria
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Teaching Staff Karamanea Panita & Tzompanakis Alexis
Department / Section / Program of belonging Architecture school course
University / School Technical University of Crete / Architecture School



Written statement. short description of the project in English. no more than 250 words

Sacred versus Dirty, Austere versus Imprecise, Natural versus Urban, qualities separated by a strict line.

In the 20th century, this way of thinking led to compact urban expansion, building over most of Attica's rivers and streams, with the aim of strongly consolidating anthropocentric activities on site. Such movements set strict boundaries on the natural formations, unleashing their irregular behavior on the artificial surfaces. Fixed boundaries cannot withstand the changes caused by natural behavior thus leading to flooding phenomena on the one hand and ecosystem degradation on the other. This diploma thesis studies one of Attica's few remaining streams, the Picrodaphne Stream, a large-scale natural discontinuity within the urban fabric that serves as a habitat. The concept of the stream is approached as a ubiquitous moisture or dynamic force that shapes the ground, an intermediate landscape between mountain and sea that constantly expresses different intensities of the fluid element in the urban landscape. The aim of this research is the activation and interaction of artificial and natural processes to infiltrate the natural mechanisms into the compact urban network, shaping landscapes characterized by shifting terrains. The field of study is therefore the regulation of contacts between the structural and topiary domains to introduce porosity and fluidity into the solid urban terrain.

For further information

Máster d'Arquitectura del Paisatge - UPC

Contact via email at:
master.paisatge.comunicacio@gmail.com

biennal.paisatge@upc.edu

Máster d'Arquitectura del Paisatge - UPC

Sede ETSAB - Universitat Politècnica de Catalunya

Calle Jordi Girona, 15. Edificio Omega 1-3
08034 Barcelona - Spain

COAC - Colegi oficial d'Arquitectes de Catalunya

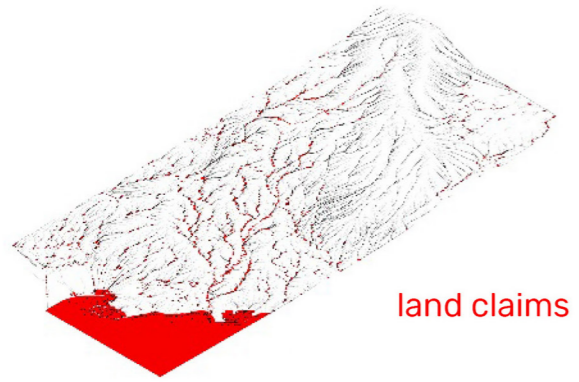
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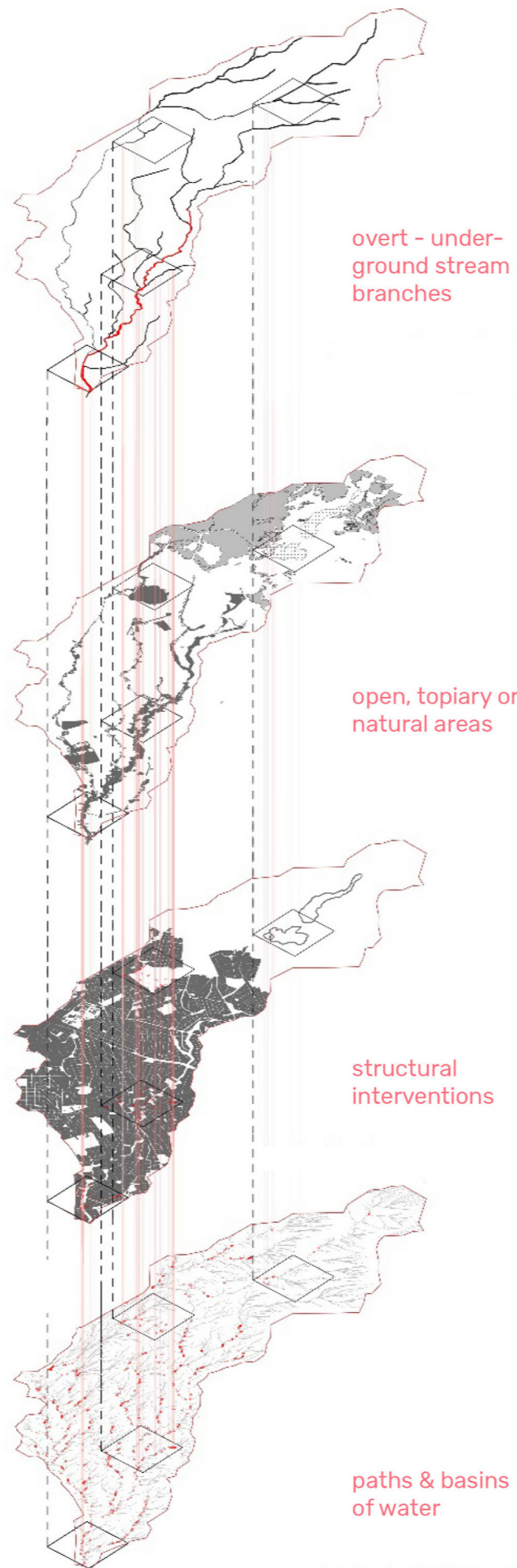
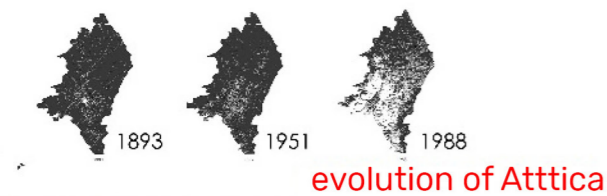
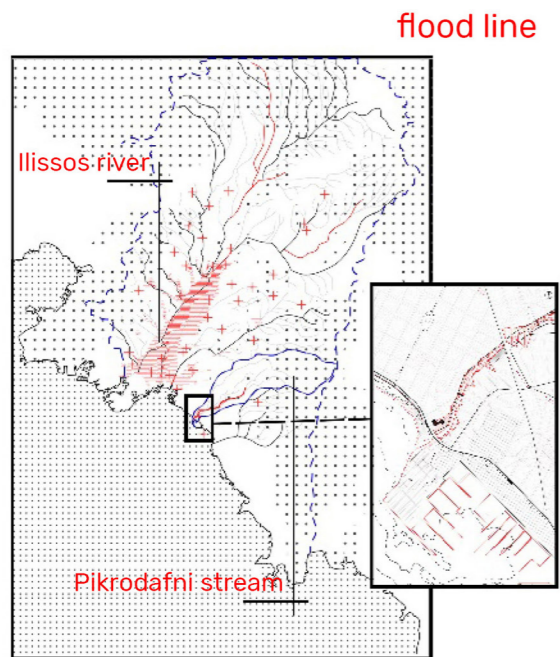
Barcelona October 2023

SCHOOL PRIZE

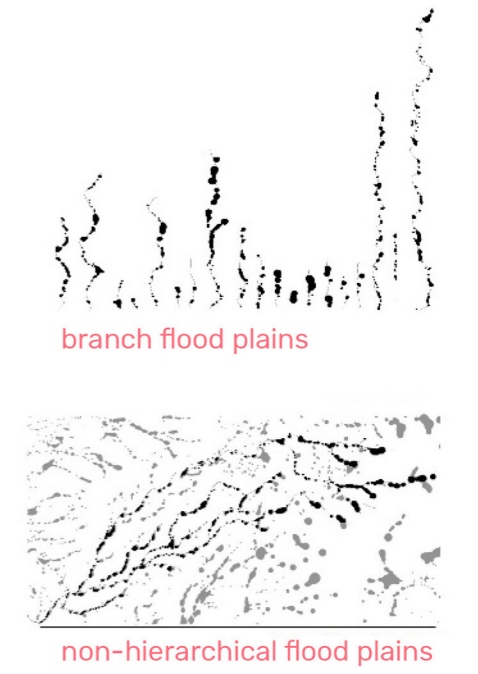
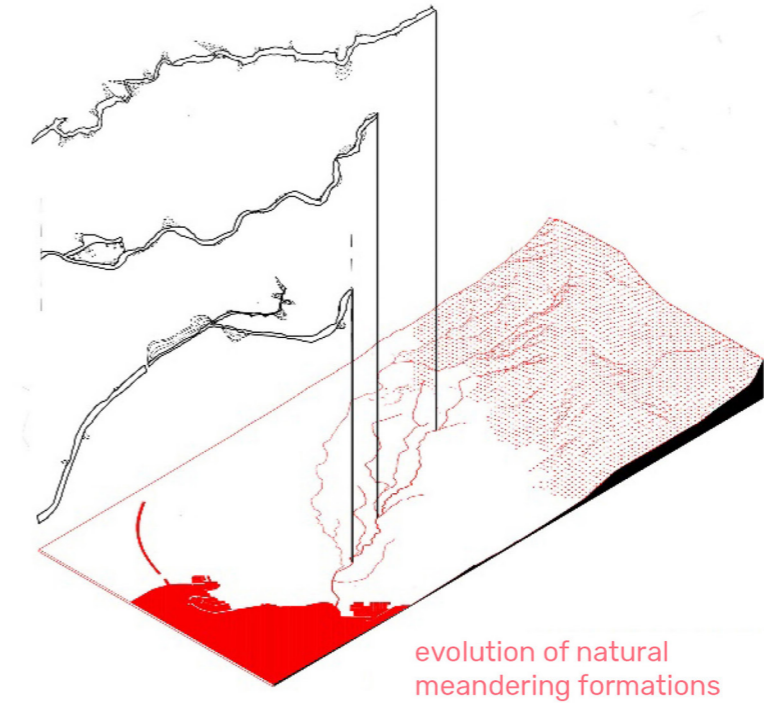
HYDROLOGICAL ANALYSIS



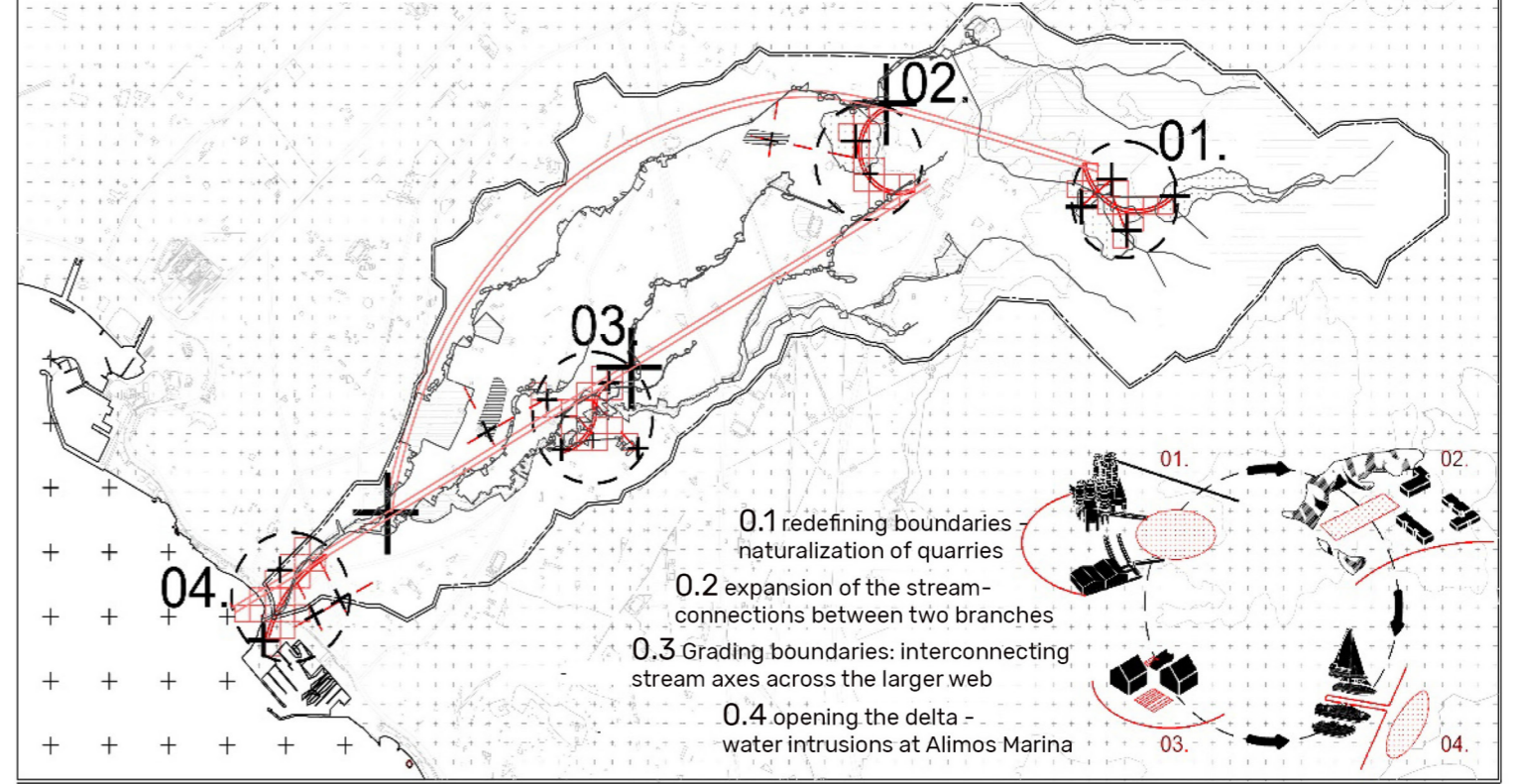
Kifisos river hydrological basin



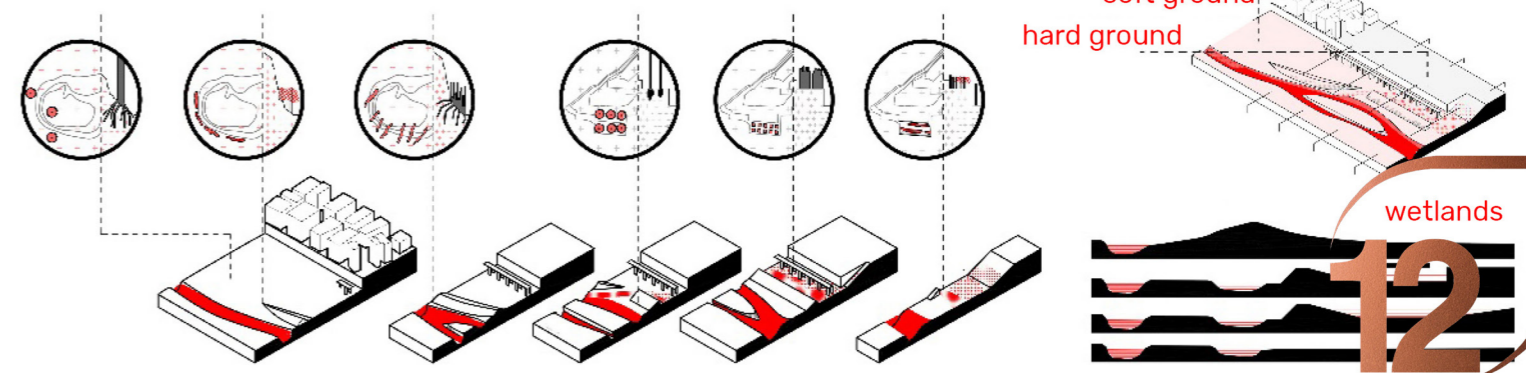
SOIL DRIFTS



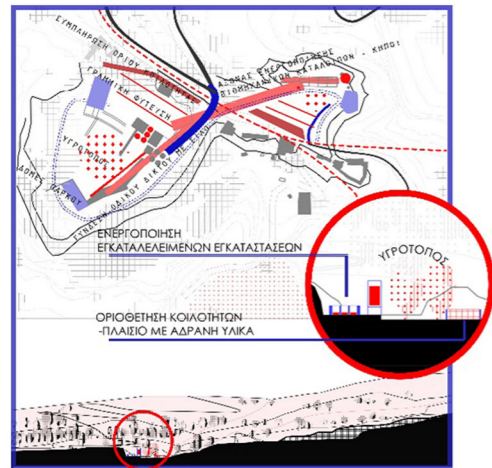
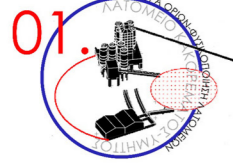
FLOOD PLAIN STRATEGY ANALYSIS



TERRITORIAL TOOLS

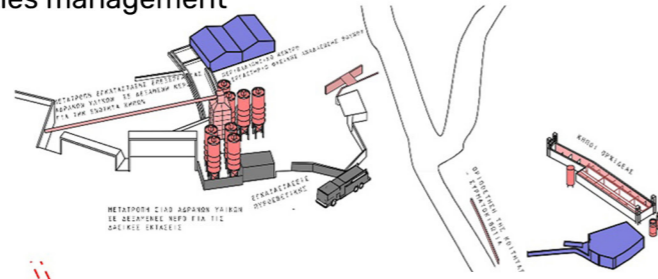


Area 1: Ymittos Mountain

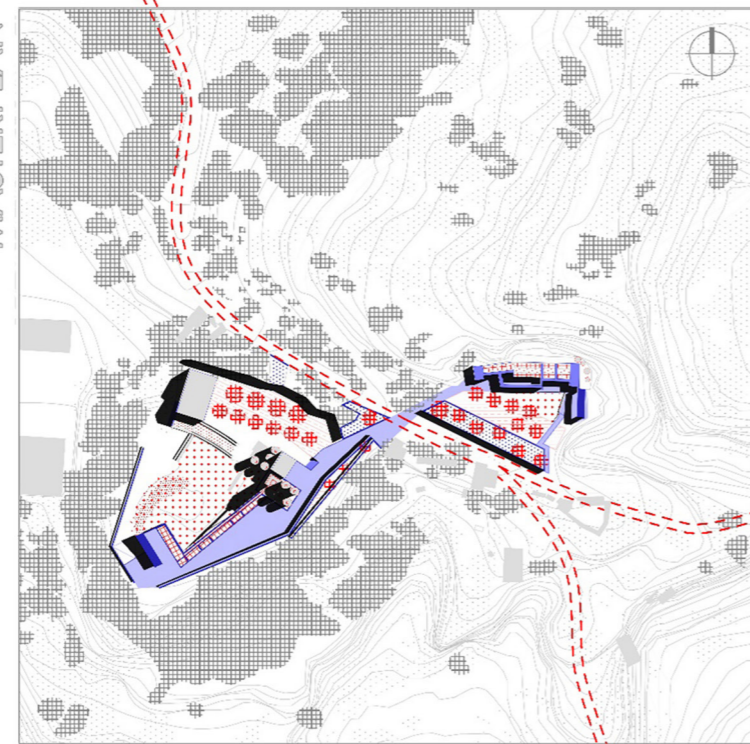


strategy

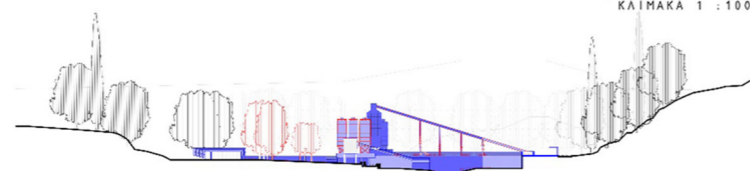
facilities management



MASTERPLAN



proposal



ΚΑΙΜΑΚΑ 1 : 1000

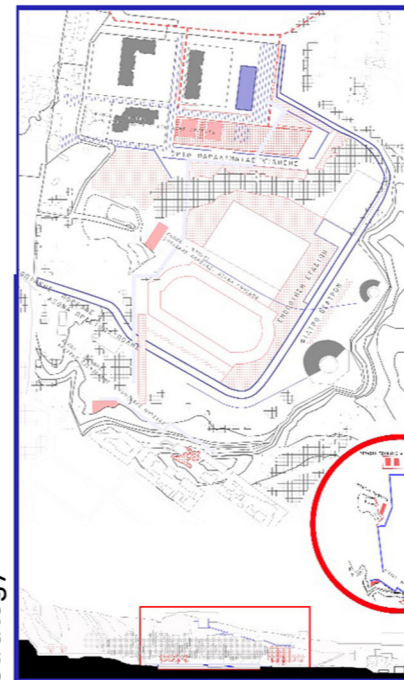
data:

- Quarry area / altered ground / extensive field of the river bed
- step terrain slope
- burnt area
- industrial remains structures

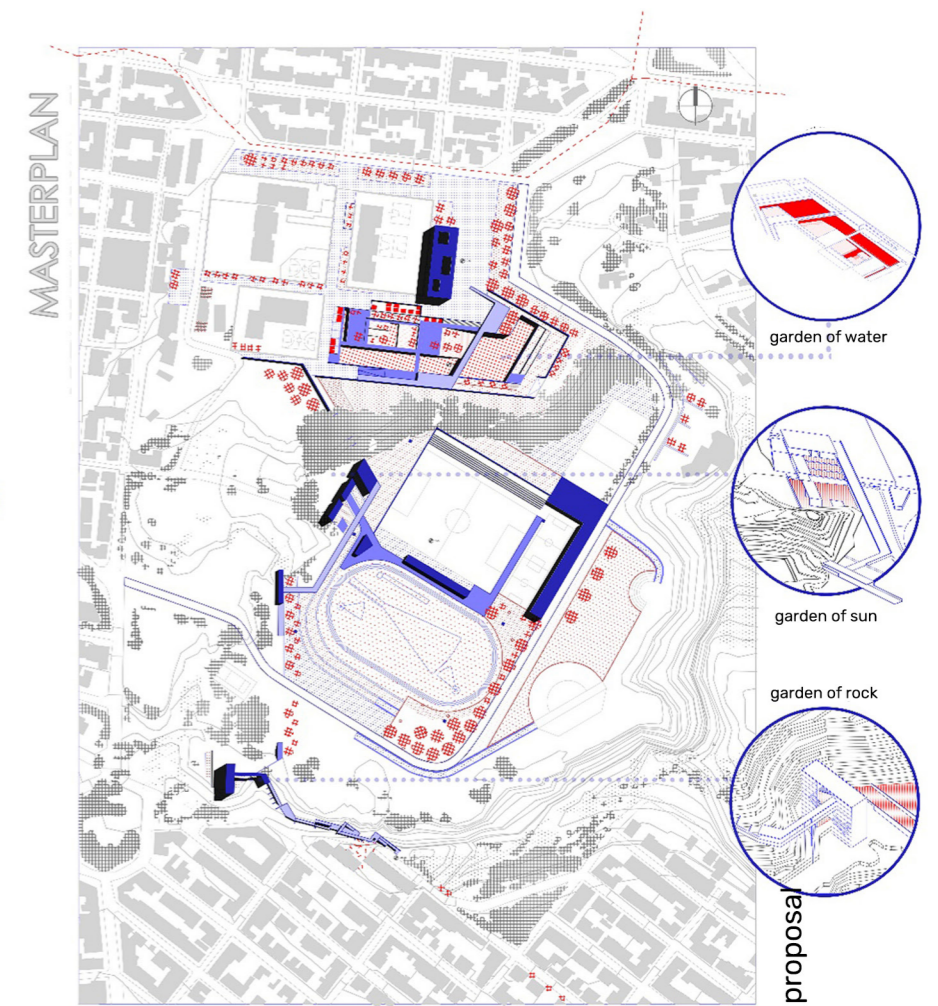
strategy:

- demarcation of riverbed / artificial embankments
- wetland formation / land restoration
- Ymittos conservation park / facilities reuse / fire protection

Area 2: Vironas

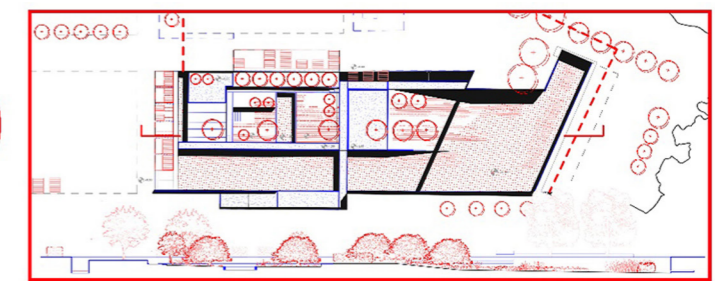


strategy



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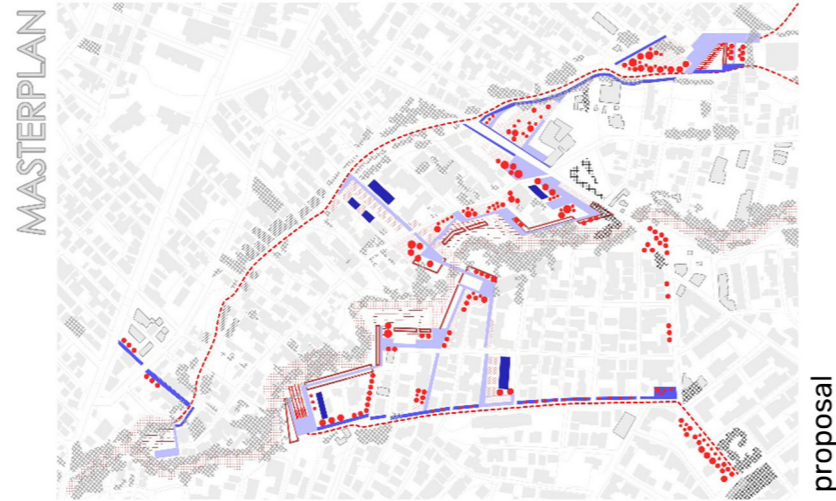
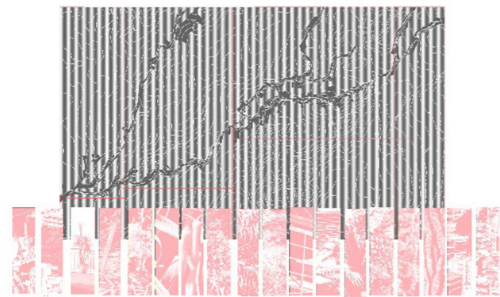
data:

- residential area
- quarry area
- river as drainage
- Big altitude difference
- large urban void

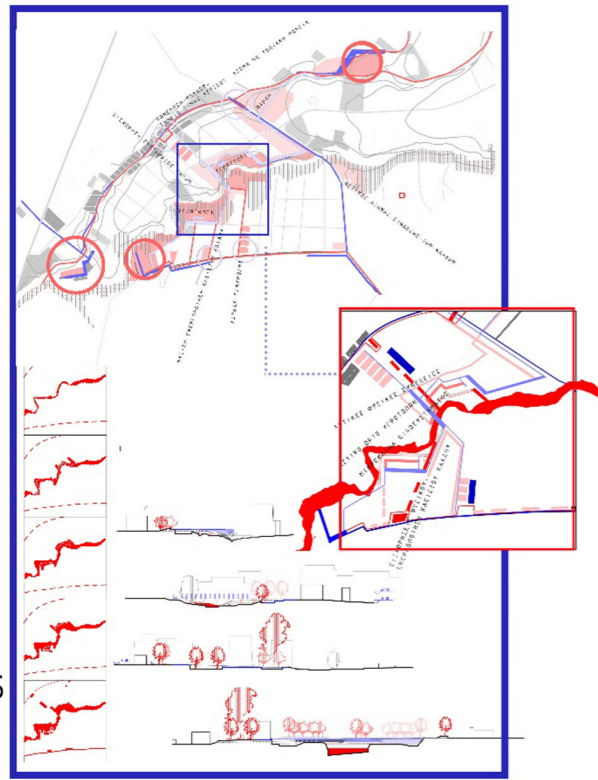
strategy:

- connection with public space / recreation area
- wetland formation - artificial lake, gardens
- topiary path connecting the lower and upper terrain

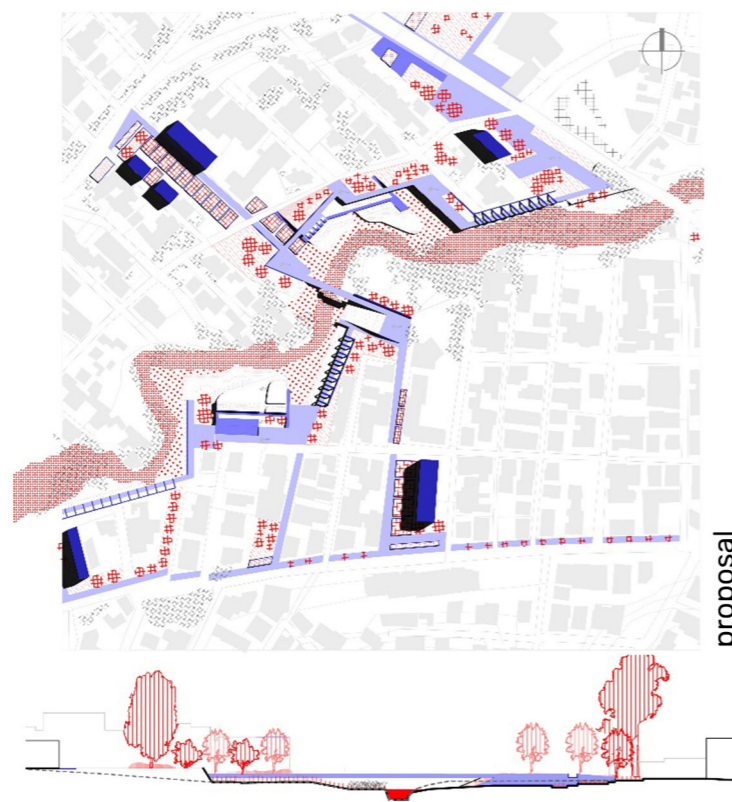
Area 3: Aghios Dimitrios



proposal



strategy



proposal

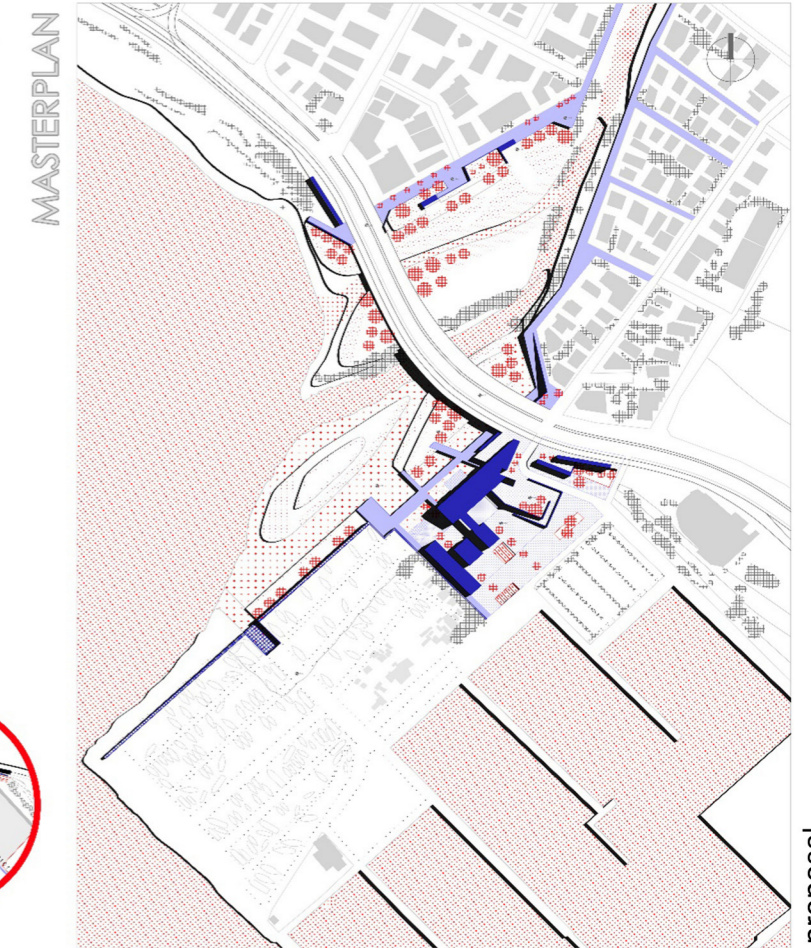
data:

- Suburban area with industrial remains structures
- intense stream meanders / visible stream branches
- lack of perpendicular to the stream course in the urban terrains

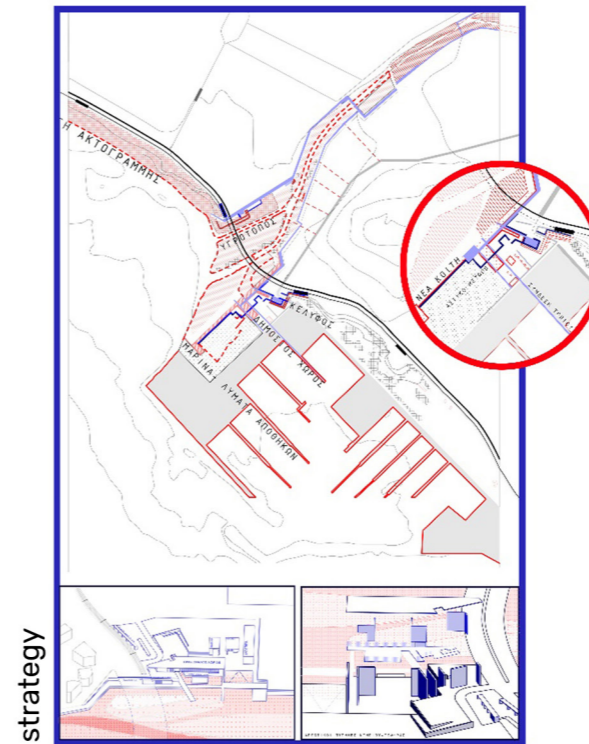
strategy:

- wetland, park and topiary paths formation
- Bridging of the banks at the urban level
- system of topiary and urban spaces systems associated with all the branches

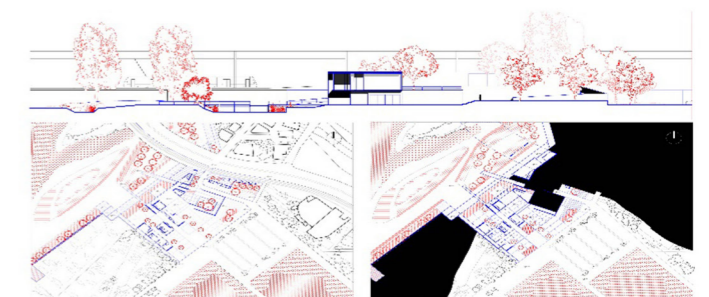
Area 4: Marina of Alimos



proposal



strategy



data:

- River estuary between beach and marina
- Polluted waters
- Residential area / large scale building area and costal zone
- Flood zone encroachment

strategy:

- Wetland and habitat configuration
- Topiary paths and public spaces in multiple grounds
- Large scale public structure hosting cultural facilities in open and closed spaces areas
- Wastewater filtration