

Country / City TEHRAN, IRAN

University / School UNIVERSITY OF PALERMO / DEPARTMENT OF ARCHITECTURE

Academic year 2018 - 2019

Title of the project TEHRAN WATERSCAPE - LANDSCAPE AND URBAN REGENERATION ALONG MAGHSOUDBEYK CANAL

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# **TECHNICAL DOSSIER**

University/School

Title of the project TEHRAN WATERSCAPES - Landscape and urban regeneration along Maghsoudbeyk canal Authors

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Title of the course MASTER'S DEGREE IN ARCHITECTURE

Academic year 2018 - 2019
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# **CLIMATE CHANGE AGAIN**

11th International Biennial Landscape Barcelona

Barcelona September 2020 SCHOOL PRIZE

The subject of this research and project is the river landscape of the city of Tehran which, although born as a plain city, has always dealt with water supply, be it underground or superficial. Tehran's urban landscape is a metaphor for its duplicity: on one side, to the north the majestic Alborz mountain range, from which seven water streams flow, on the other, to the south, the desert. Specifically, Maghsoudbeyk canal, resulting from the union of two rivers – Darband and Golabdareh – which flows for almost 6 km between district 1 and district 3 in the north of Tehran, represents the case study of this research. Relevant from an urban point of view, because it is the link between the network of historical settlements: a unique case among all the waterways in the city, as an integral part of an urban agglomeration that surrounds and rejects it at the same time, still relegating it to mere channel whose presence is manifested only by the sporadic sound of waterflow that emerges among the redundant clamor of the horns.

As a result, the aim of this work is to design a public network between two focal points, Tajrish square in district 1 and

As a result, the aim of this work is to design a public network between two focal points, Tajrish square in district 1 and Zargandeh in district 3, connected through the canal flowing between a landscape system that makes this now forgotten waterway a landmark, a green corridor that untangles the smog blanket of the highly polluted Iranian capital.

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## WHERE





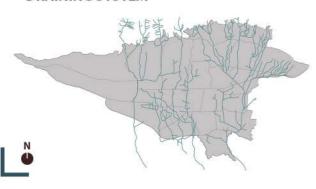
## DISTRICTS



### **WATER STREAMS**



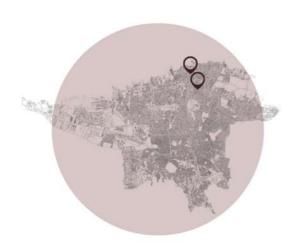
#### **DRAINING SYSTEM**



#### THE CITY

**Tehran**, capital city of the Islamic Republic of Iran, can be defined here as a full-fledged megalopolis: with its 22 districts which host more than 11 million inhabitants - 15 million considering the metropolitan area - and the 730 sq km of extension, it is the largest city in Iran and one of the largest capitals of the Middle East. The peculiarity of the city certainly lies in its geographical location: it extends for about 18 km from the slopes of the Alborz mountains to 1800 meters above sea level in the north, reaching 1200 meters in the central plain up to 900 meters above sea level in the south, with a slope of 13.5 m/per km1. This topographical trend has made it possible to drain water almost naturally.

Tehran waterscape is composed by **seven** water streams, from west to east: Kan (perennial), Farahzad (seasonal), Darake (seasonal), Darband (almost perennial), Gholabdareh (almost perennial), Darabad (almost perennial) and Sorkeh-hesar (seasonal).



#### THE SITE

Maghsoudbeyk canal, is a water stream resulting from the union between Darband and Golabdareh rivers, located in the north of Tehran from Tajrish (district 1) to Mirdamad (district 3) for about 5.7 km.

The uniqueness of the site is represented by its being at the same time a river landscape but urbanistically dense.

The analysis of the urban landscape of the site is illustrated with progressive sections that show the **urban context and use of space**, be it private or public, in relation with the **morphology of the water stream**, be it channelized or natural. As a result, the design process then focuses on **Tajrish** area and **Zargandeh** area.

