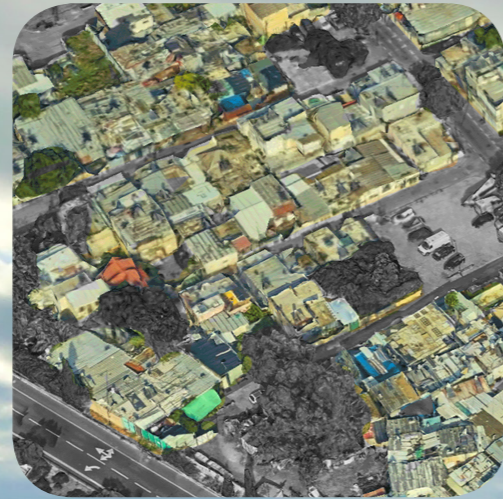


CHALLENGES AS OPPORTUNITIES IN TEL AVIV-YAFO



**Seasonal
Floods**



**Housing
Inequality**



**Urban
Heat**



**Neglected
Social Infrastructure**



**Coastal
Degradation**



Country / City Tel Aviv-Yafo, Israel
University / School Columbia University, Graduate School of Architecture, Planning and Preservation
Academic year 2019-2020
Title of the project Equity and Resilience for South Tel Aviv-Yafo
Authors Tel Aviv-Yafo Urban Design Studio



TECHNICAL DOSSIER

Title of the project **Equity and Resilience for South Tel Aviv-Yafo**
Authors German Bahamon Lopez, Angus Palmer, Palvasha Sophia Khan, Vasanth Mayilvahanan, Antonia Medina Abell, Niharika Shekhawat, Candelaria Mas Pohmajevic, Shailee Shah, Tian Hao, Danwei Pan, Zixuan Zhang, Kuan-I Wu, Hugo Bovea García, Kunal Mokasdar, Nina Ndichu, Sharvari Raje

Title of the course **Urban Design Water Urbanism Studio Spring 2020**
Academic year **2019-2020**
Teaching Staff **Kate Orff (Coordinator)**
Lee Altman, Adriana Chavez, Dilip da Cunha, Fitsum Gelaye, Geeta Mehta, Thad Pawlowski, and Julia Watson

Department/Section/Program of belonging **MS in Architecture and Urban Design Program**
University/School **Columbia University, Graduate School of Architecture, Planning and Preservation**



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

The Urban Design Studio examined regional histories and explored future resilience and adaptation scenarios for the south of Tel Aviv-Yafo, an area segregated by **urban heat, pollution, and insecurity**. The studio sought to develop spatial design concepts that **strengthen the southern neighborhoods' social, economic, and ecological capital**. Existing spatial inequities manifested in both physical urban infrastructure—in the form of **congested elevated highways** and failing **buried storm-water pipes**, and in policies and **lack of services**—from inadequate child care to insufficient social services. The neighborhoods' **historic urban fabric** nonetheless offers unique opportunities not found in the northern and more affluent areas of the city, and the vibrant and diverse communities have an iconic and lively character.

The studio developed site-specific proposals to address these pressures and challenges, and advance and spatialize resilient urban design in each context. While building on site-specific assets and opportunities, the **four strategic proposals** are pilot ideas which could potentially be expanded along the north-south line dividing the city.

The neighborhoods of Neve Sha'anani, Shapira, Hatikva, and Ezra line Tel Aviv-Yafo's north-south divide. The city of Bat Yam, just south of Tel Aviv-Yafo, presents a different set of challenges and opportunities.

For further information

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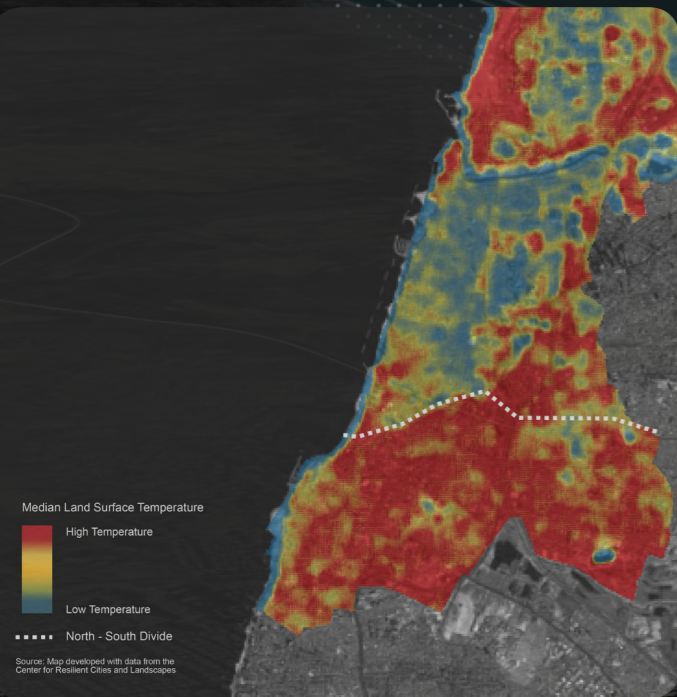
CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

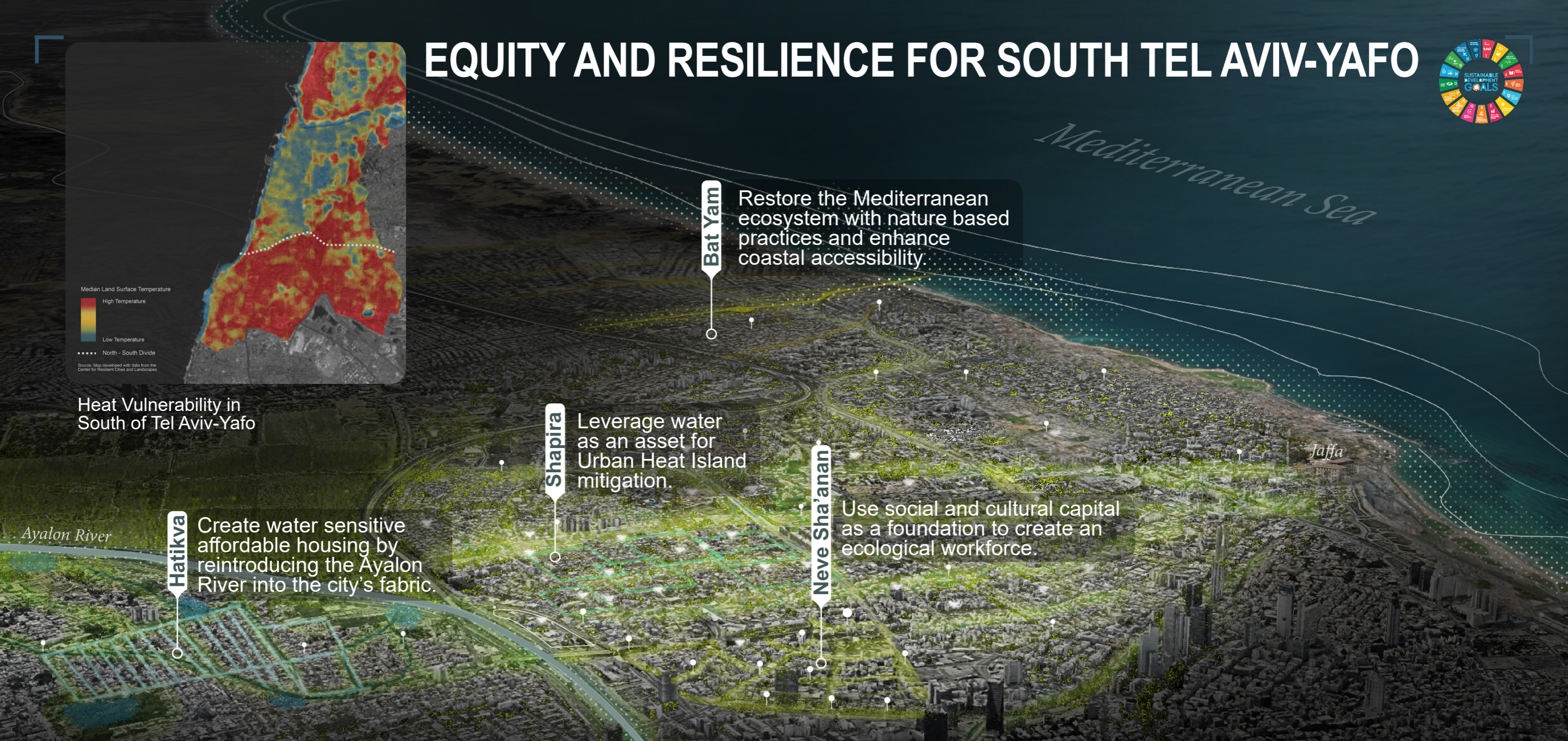
Barcelona September 2020

SCHOOL PRIZE

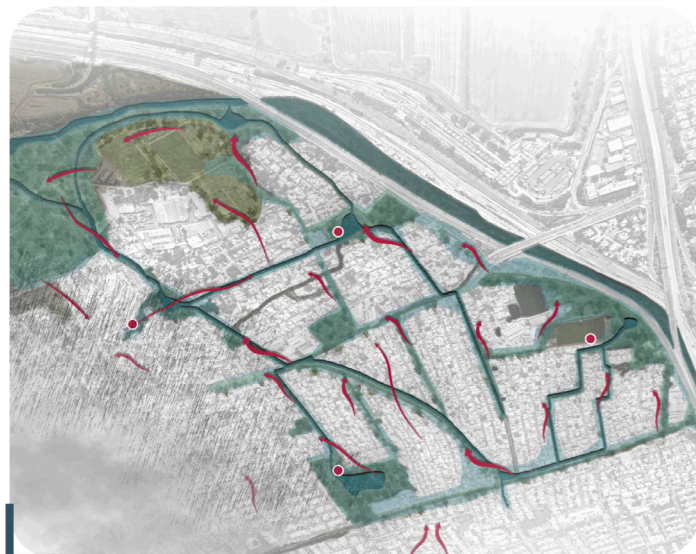
EQUITY AND RESILIENCE FOR SOUTH TEL AVIV-YAFO



Heat Vulnerability in South of Tel Aviv-Yafo



HATIKVA



SHAPIRA



NEVE SHA'ANAN



BAT YAM



NATURE BASED URBAN HEAT MITIGATION



Ecosystem Restoration

Water Sensitive Housing

Shaded Streetscapes



GROW THE LOCAL ECONOMY



COLLABORATIVE EFFORT



BUILD NATURAL INFRASTRUCTURES



CUT & FILL FLOODPLAIN

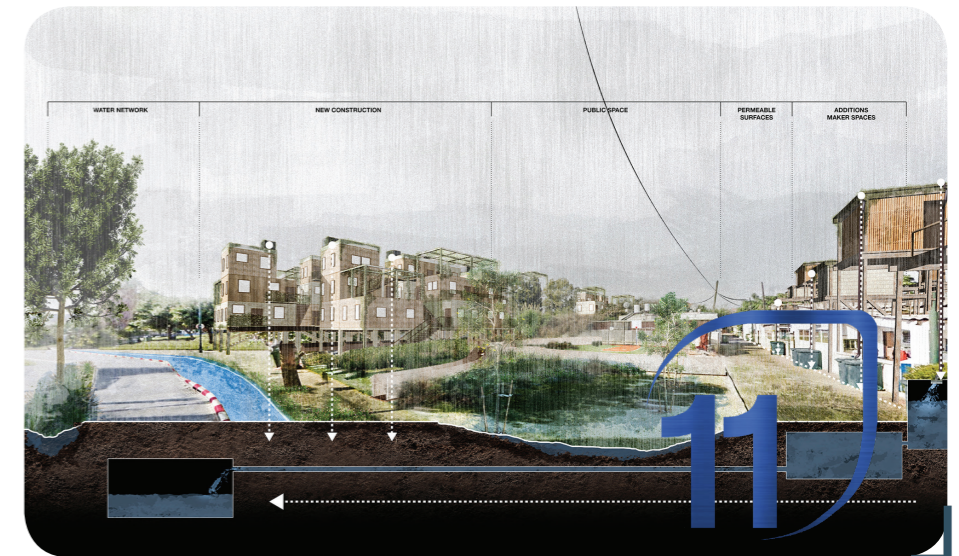
COASTAL ECOSYSTEM RESTORATION + ENERGY GENERATION



NEW TREE CANOPY + PUBLIC SHADE



SEASONALLY ADAPTIVE LANDSCAPE + INCREMENTAL DENSIFICATION



COLLABORATIVE SOCIAL AND CULTURAL CAPITAL

