

"The Uncanny, the Unheimlich, or the Unhomely, is a specific class of dread, which rises from the transformation of something that once seemed homely into something decidedly not so."

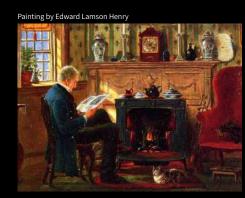
- Anthony Vidler, an Architecture critic, and historian, at Cooper Union.

According to Vidler's reading

there were three historical manifestations of the Uncanny. According to the project's reading, we are currently experiencing the 4th.

I - A bourgeois kind of dread **18th Century**

The Contrast between a safe and homely place and the intrusion of an alien presence



II - Congestion and Estrangement

When the city became a metropolis: The alienation felt by the individual towards the radically changing environments



III - Deconstructed Structures

Peak during the late 1980's Architecture claims a critical role, stirring and exposing 'hidden', 'authentic' layers in space, one that are otherwise hidden



The destructive impacts related to climate change are increasing. A link seems to exist between these impacts and the way in which we form our built environment. Yet, there seems to be an inadequacy to adapt accordingly, a collective repression of the ongoing shift. This layer of repression is occasionally punctured by flashes of startling awareness, when spatial disturbances are formed, stirring us momentarily. During these periods we feel the environmental transformation. That which was once homely and secure becomes hostile. The project aims to harness these uncanny glimpses of awareness as a tool. It seeks to explore a scenario in which architecture adapts to the impacts of climate change by exposing their existence, and addressing the existence of such layer of repression, possibly contributing to its undoing.

The Uncanny of Climate Change



The Uncanny - Harnessed

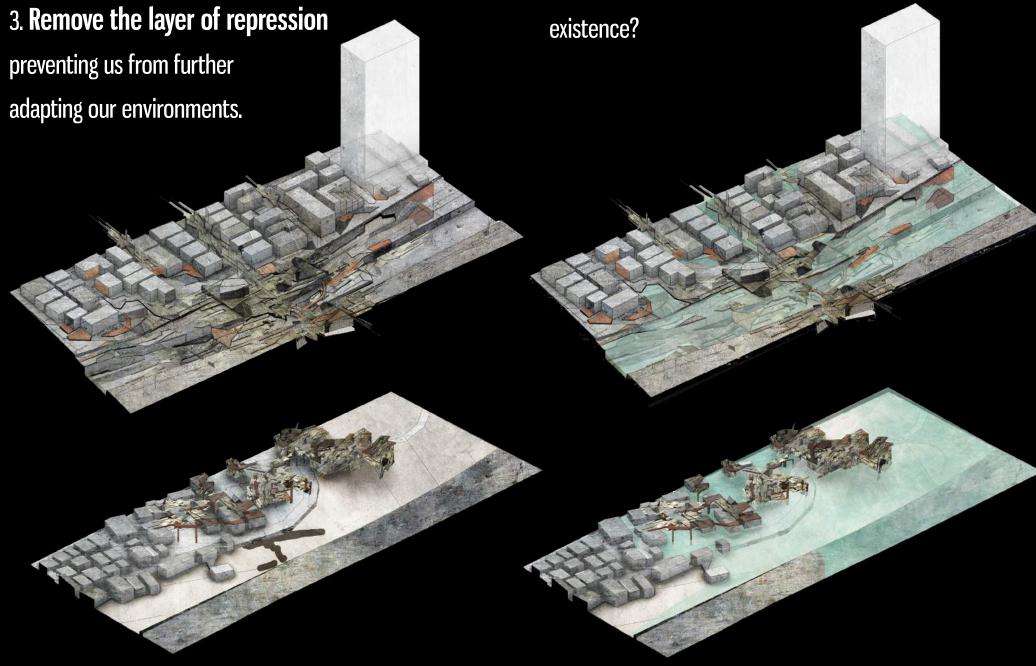
The project presents a reading in which the Uncanny may be harnessed, as a tool used to -

- 1. Spatially **Adapt** to unhomely phenomena
- 2. **Expose** the uncanny transformations that our environments are undergoing.

preventing us from further adapting our environments.

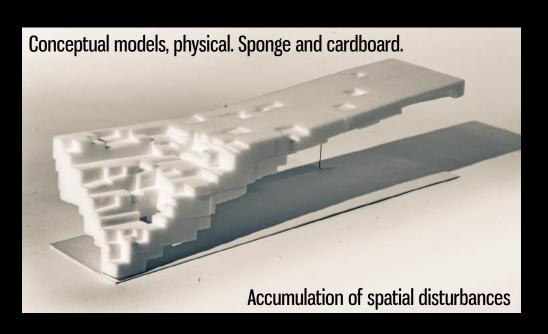


Environments carrying the imprints of the impacts of climate change. As an alternative to our symptomatic, standard reactions - What if our cities would have been adapted, shaped by a reaction to these impacts in a way which exposes their



"Uncanny rises from the transformation of something that once seemed homely to something decidedly not so."

- Vidler on Freud's interpretation of Schelling, in The Architectural Uncanny





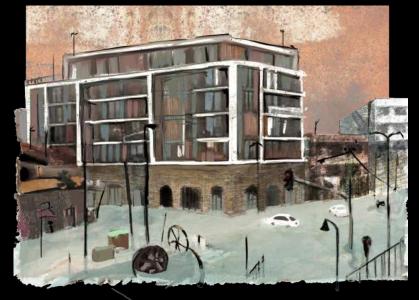
Gradual Environmental Transformation

Weather patterns are shifting, the climate is changing and the environmental conditions are becoming harsher. The two most severe impacts in our local context, are urban flooding and the increasing heat in urbanized areas, as determined by the Tel-Aviv-Yafo's Climate Change Preperation Plan, 2020.





Most reactions are symptomatic, under-ground and thus under-consciousness



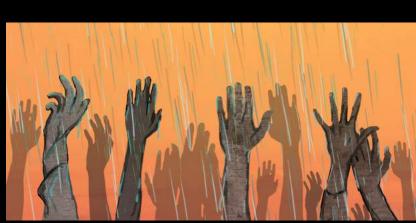
'Urban deserts' of concrete are especially susceptible to urban flooding, as they lack permeable soil.







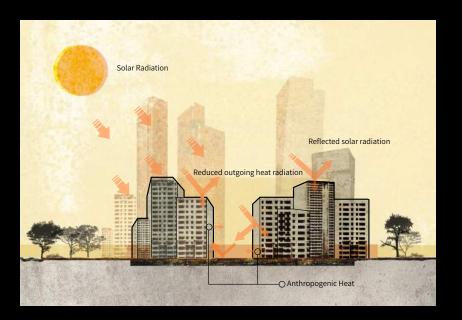




The rain, a symbol of prosperity, a blessing in a desert land, becomes an unwanted and a menacing presence



They also generate urban heat islands due to their physical characteristics





Urban desert, large swathes of concrete, generating a urban heat island and preventing runoff water absorption



Jaffa's Swamp

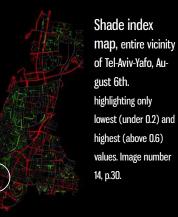
Al-Bassa and its surrounding area in Jaffa were once a seasonal pond, a swamp, and are now an urbanized area covered in concrete and asphalt, that absorbs and emits heat. It is an area to which runoff water from across the Jaffa Basin drains and accumulates.



Bloomfield stadium, Shlabim road and Groningen park -

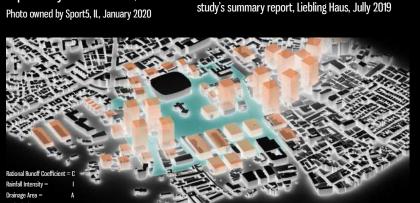
repeatedly flooded area,







Maps by Dr. Arch. Or Aleksandrowicz, L.A Shachar Zur, Arch. Yonatan Lebendinger, Dr. Yoav Lerman, Shade neighborhood, August 6th. image 19, p. 35 Maps for Climatic Urban Planning in Tel Aviv-Yafo,



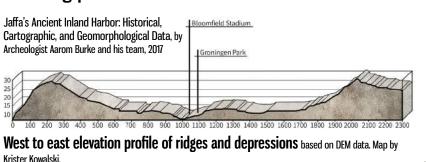
General Data, Jaffa Basin (08)

Permiablity coefficient, C = 0.8mpermeable Area, A = 4,797,224 sqm2(5,045,271sqm2 exluding parks) - (248047sqm2 open areas)]

Example: Rainfall Intensity, I = 150mm event Total impermeable Area [drainage area]: 4,797,242sqm2 Total Runoff Volume [total peak discharge]: 570,911 (m^3*24hrs) Displayed Extrusion: h=6m "water vessel"

Using the Rational Method for design flood events to calculate runoff water volumes in various scenarios

This area's natural and man-made characteristics make it susceptible to two major climate-related impacts - the increased heat in urban areas and **urban flooding**. Those impacts are projected to escalate as the climate gets warmer, as our cities expand and as we cover the remaining permeable soil.

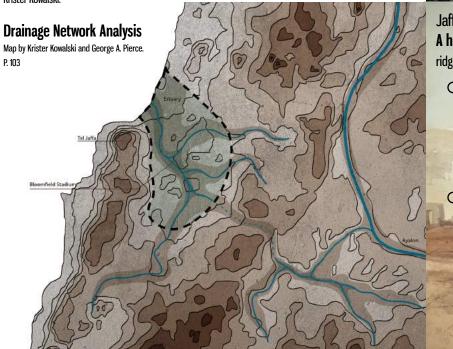


Jaffa as portrayed in one of David Roberts' paintings, 1839. A hint for the dry alluvial plain to the left of both Tel Yafo, which lies on the kurkar

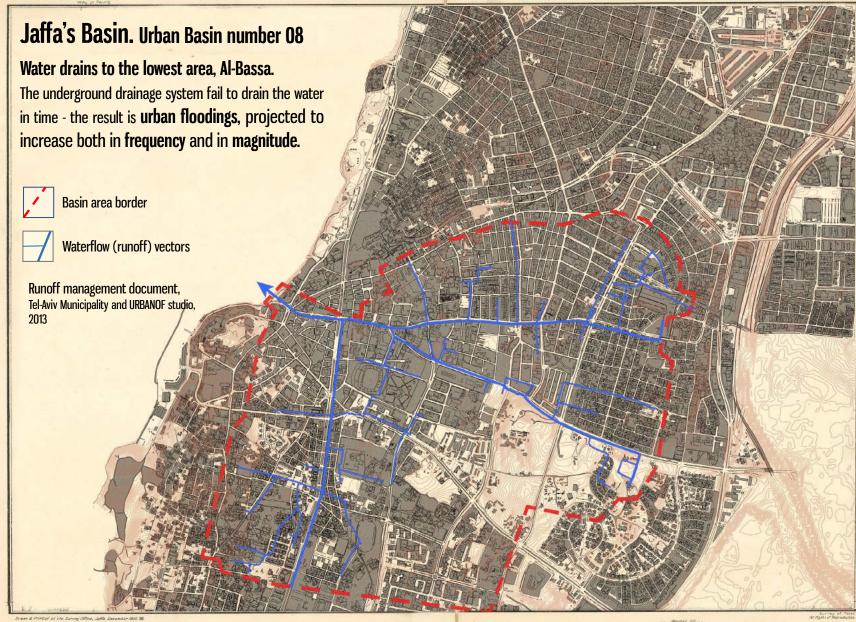
The site, Al-Bassa, the swamp, pre-urbanization. as seen

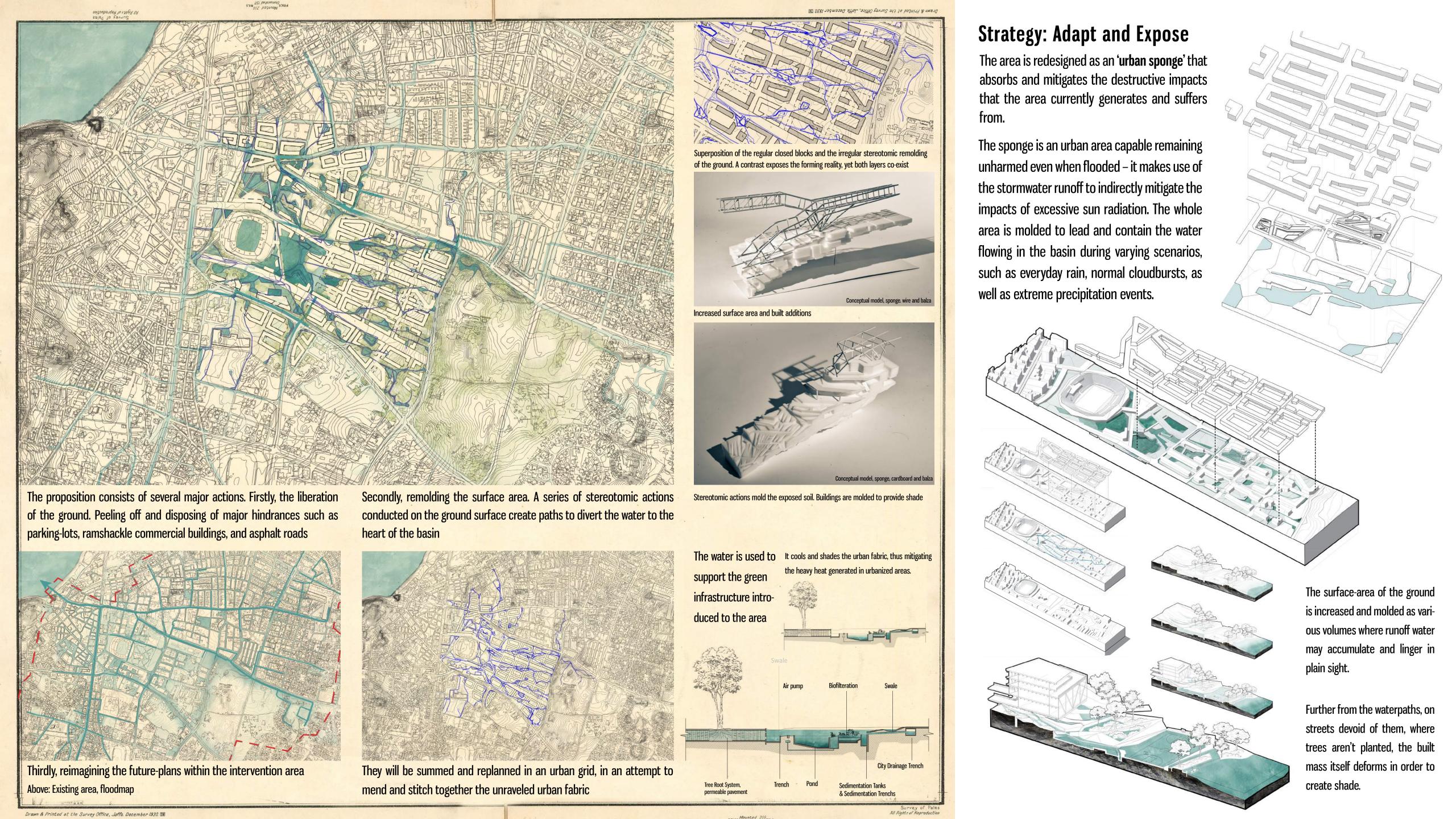
A Basin's Bottom

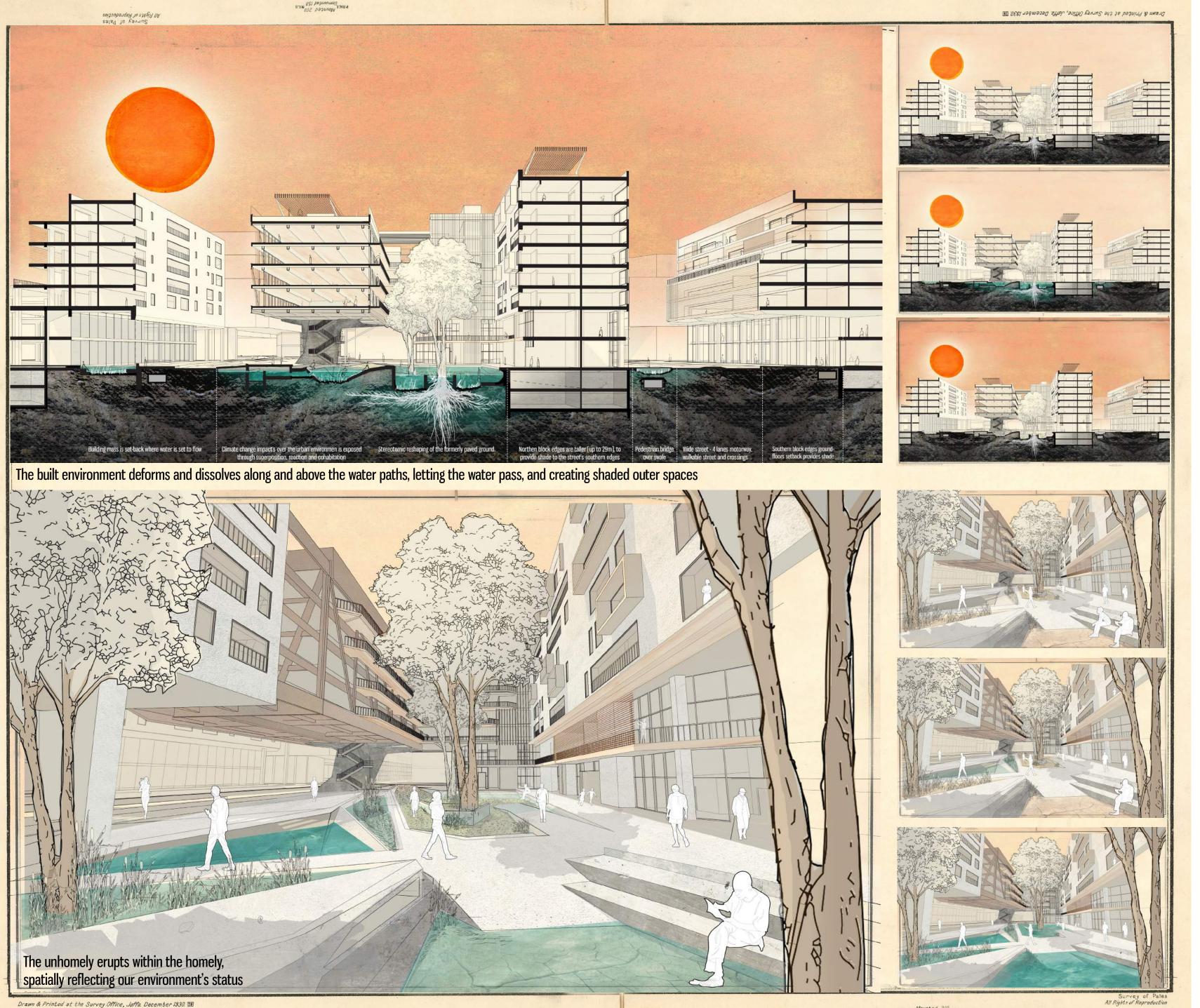
from the first aerials of palestine. 1917.







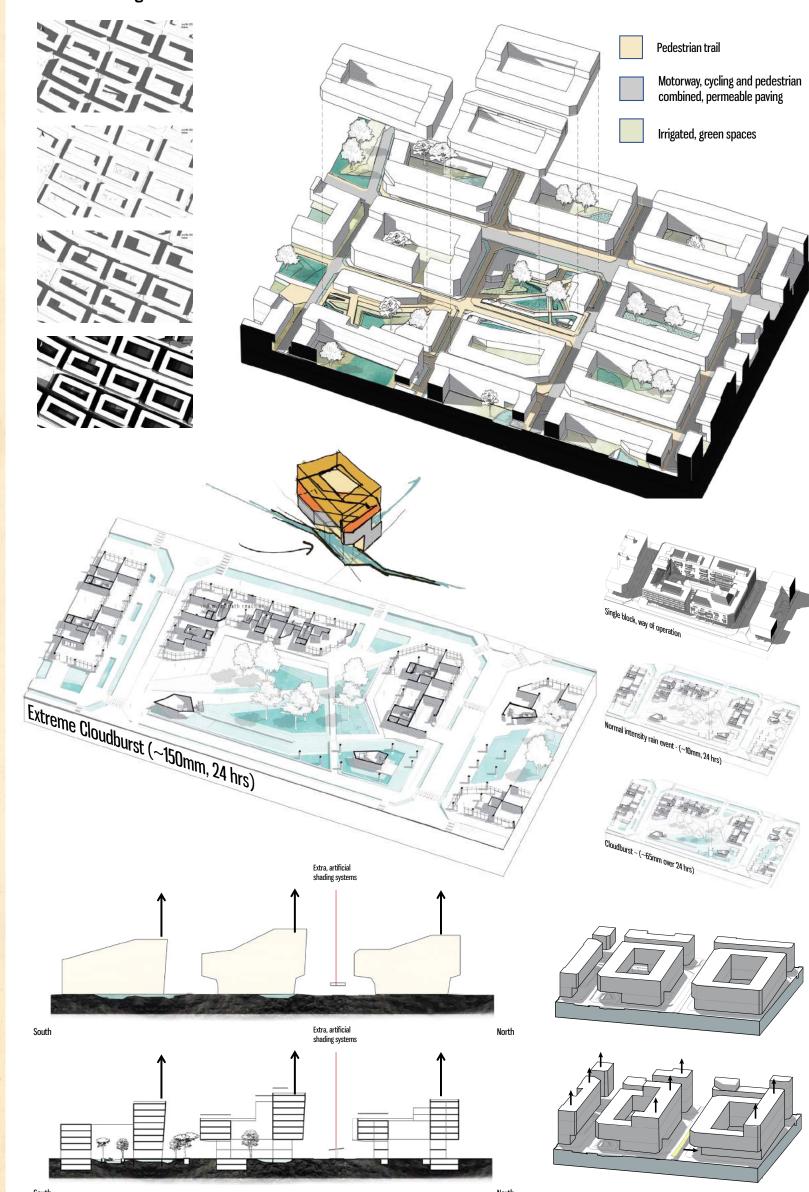




Typology

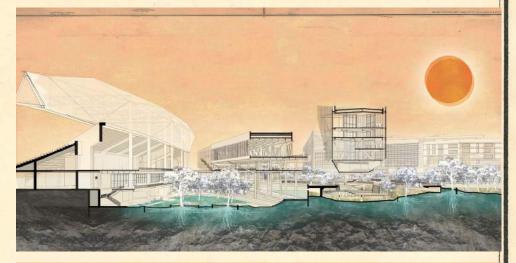
The planned elements in the vicinity, including the built mass, are designed to provide large patches of continuous shade over the public spaces, allowing it to maintain its function even during the warmer days of the coming future.

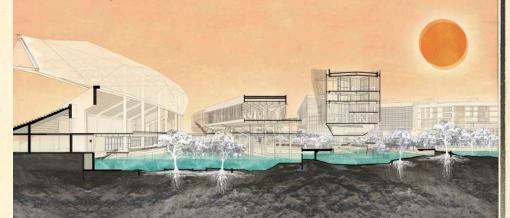
The blocks' orientation aims to shade the public space, as well as provide the most optimal conditions for the indoor spaces, with stretched out Northern and Southern sides



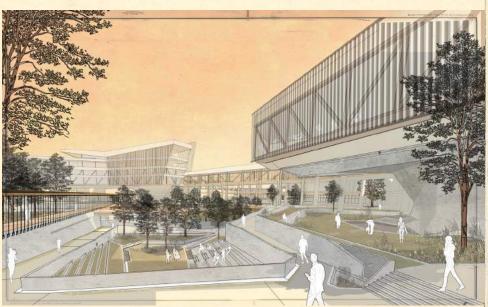


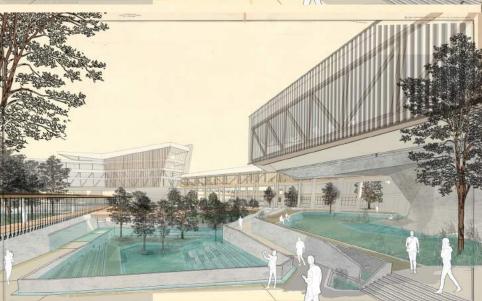
In this area, the buildings act as an integral part of the eco-system, complimenting the shade produced by the trees, and creating "shade pools" over the water pools.

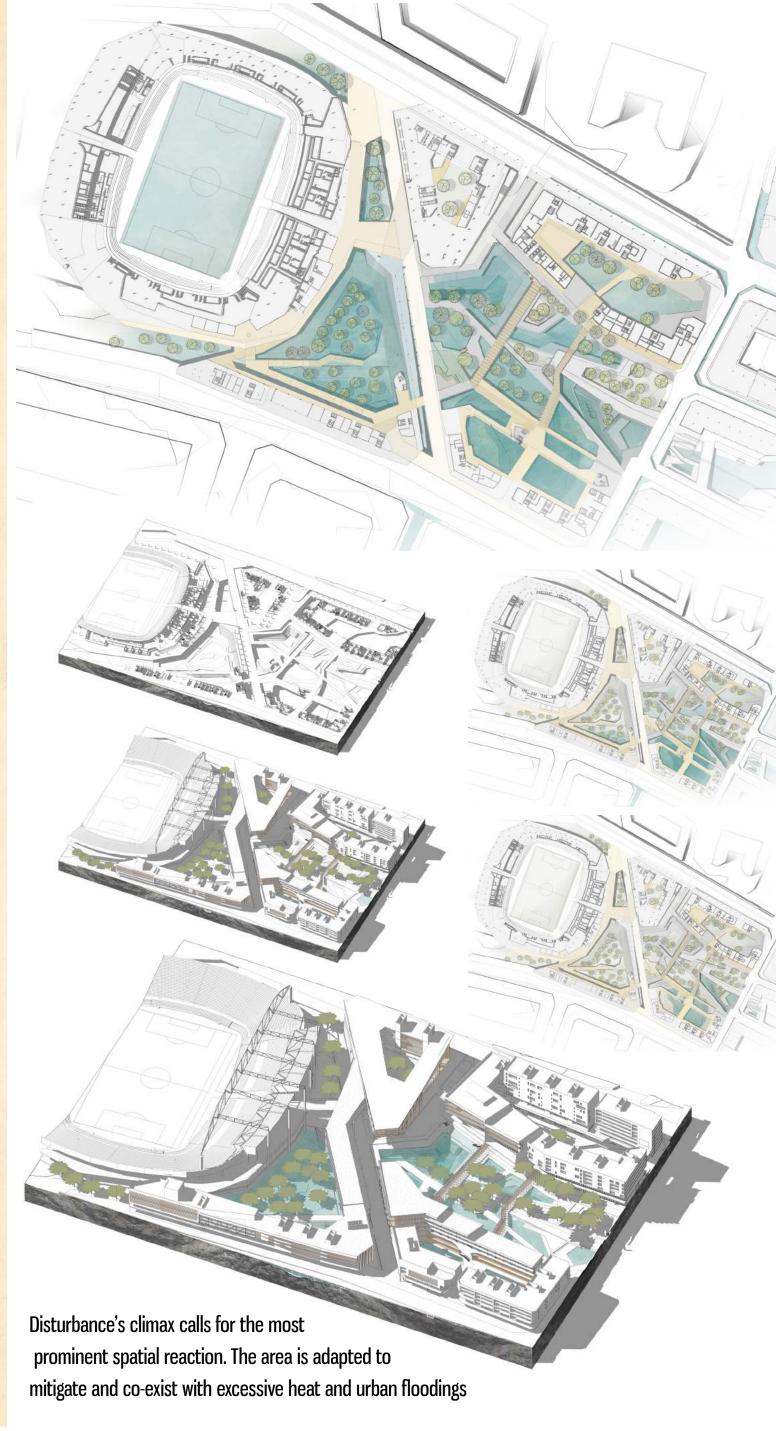




to us by reality as well as shape consciousness, enhancing the connecting between humans and their surroundings.







The project raises the possibility of using spatial tools to create architecture that adapts to the changing conditions presented

