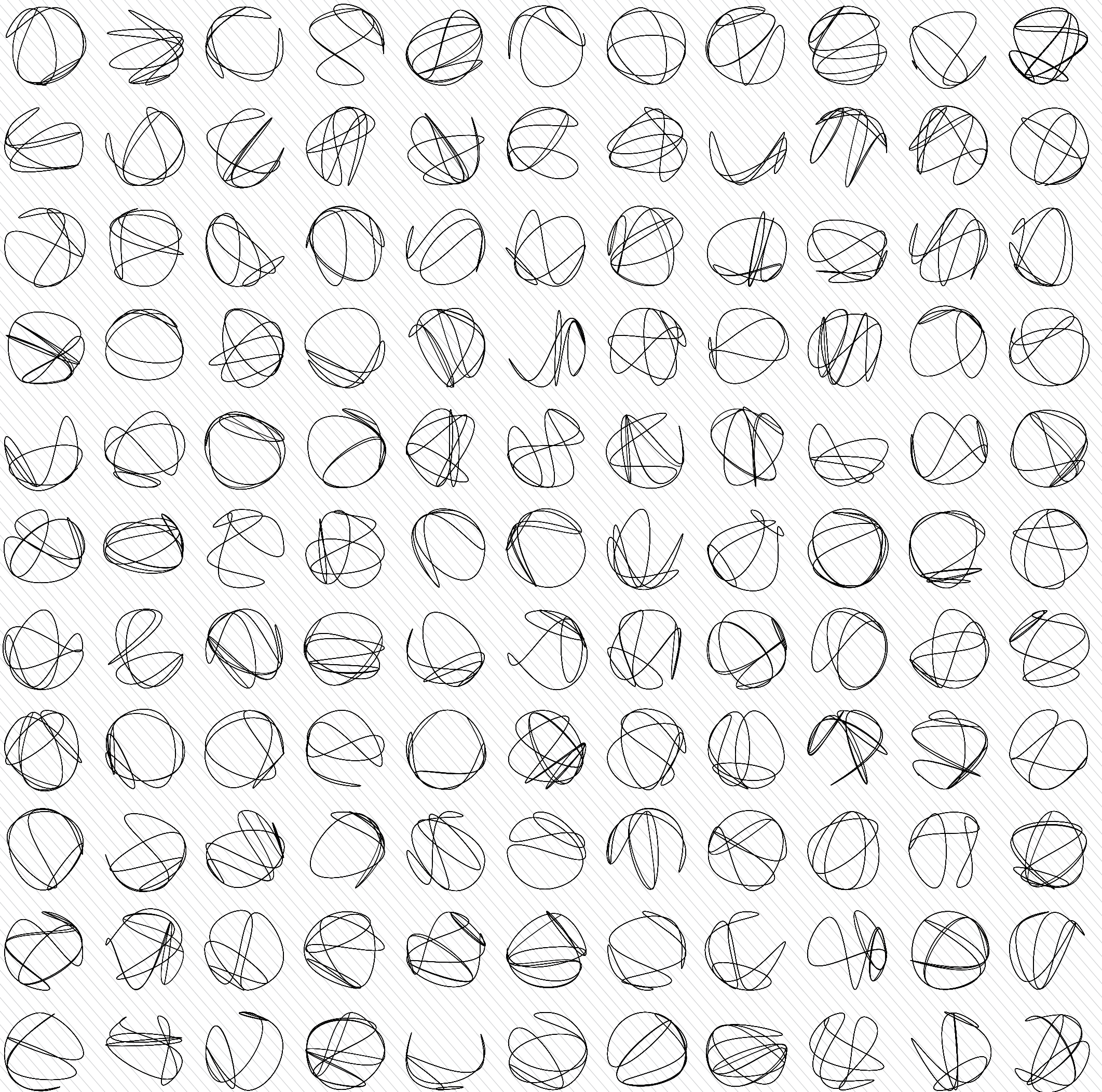


# SHAILEE SHAH

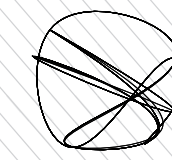
Columbia University GSAPP, MS.AUD' 2020  
sms2426@columbia.edu | 415.712.6536





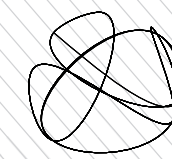
## DISPERSING WELLNESS

Imagining a Green New Deal in the Hudson Valley, New York



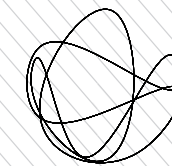
## CONNECTING I.B.Z

Industrial Resilience in Long Island City, New York



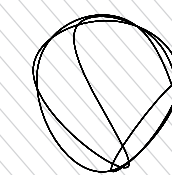
## DAYLIGHTING NEVE SHA'ANAN

Social Empowerment in Tel Aviv-Yafo, Israel



## PUBLIC WORKSHOP

River revitalization in Johnstown, Pennsylvania



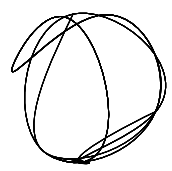
## REMOTE SENSING

Tracing urban transformation in Houston, Texas



## SACRED GROUNDS

Revealing historic significance of burial grounds in Savannah, Georgia



# DISPERSING WELLNESS

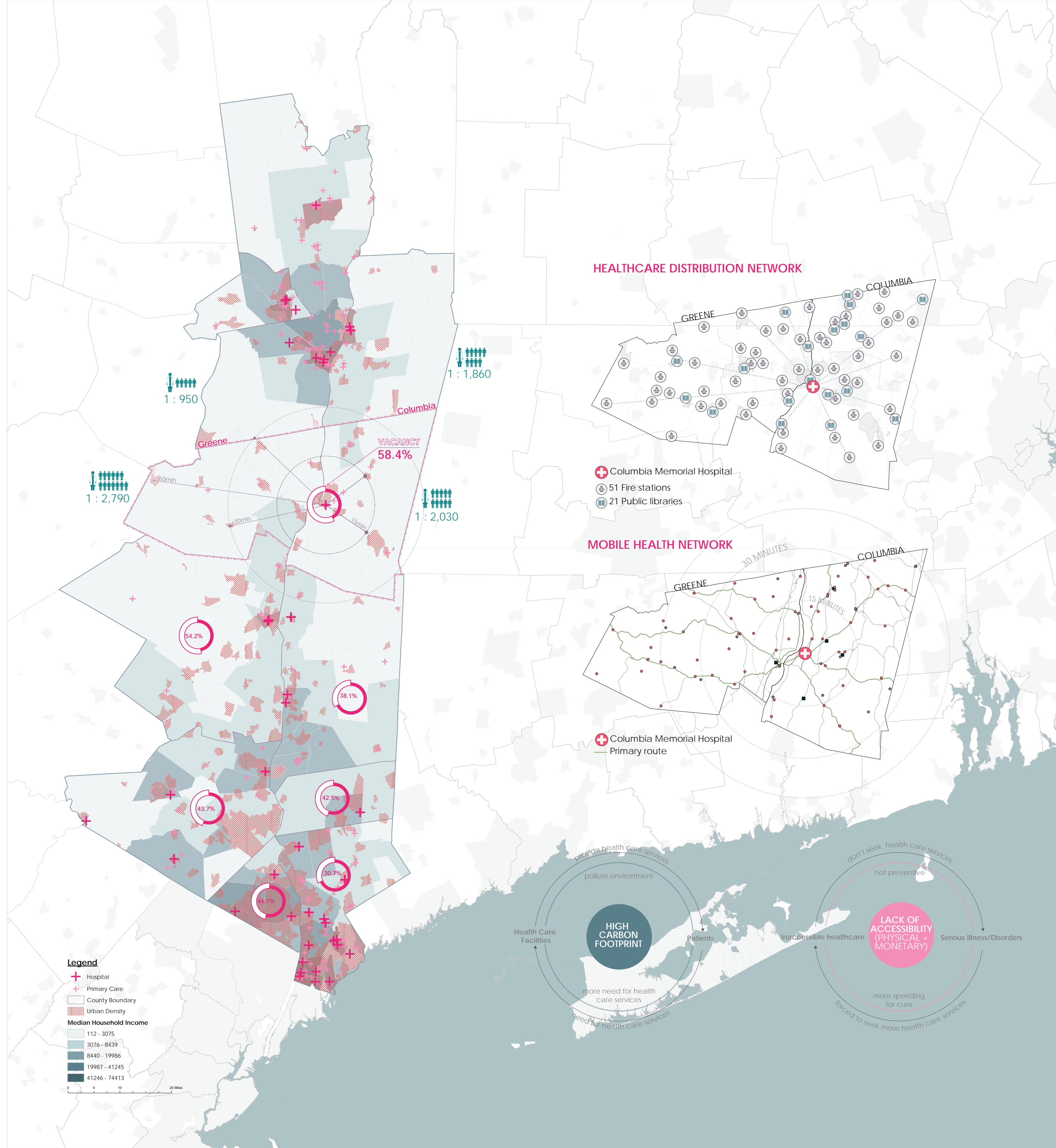
Imagining a Green New Deal in the Hudson Valley, New York

Collaborator(s) : Niharika Shekhawat, Mansoo Han, Ting Zhang

USA produces an estimated 6,456.7 million tons of CO2 every year. Healthcare industry accounts for 10% of the total greenhouse gases generated and has experienced a 30% increase in the rate of gas emissions from 2006.

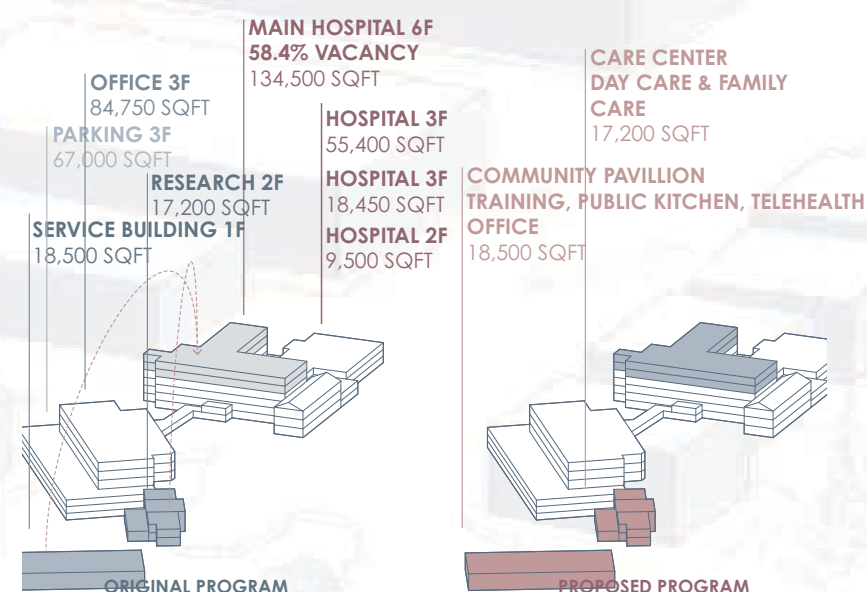
In the Hudson Valley, geography of the region drives people's health seeking behavior, residents travel upto 1.5 hours one way for their basic health needs. At the same time, many hospitals in the Hudson Valley have 50% percent vacant bed space, that can be more efficiently repurposed.

The project challenges the perspective of the current healthcare system from being a measure of cure to an extension of health and wellbeing of the community. Therefore, we reimagine dispersion of wellness through an additive typology that empowers the role of social infrastructure to spread a wellness network in rural areas that substantially lower the environmental impacts of and the healthcare sector, and create an equitable and sustainable model.

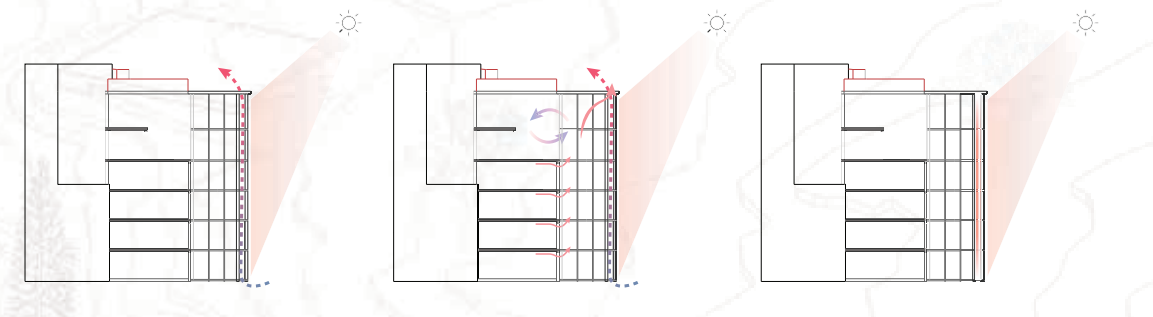


# HOSPITAL AS PARK

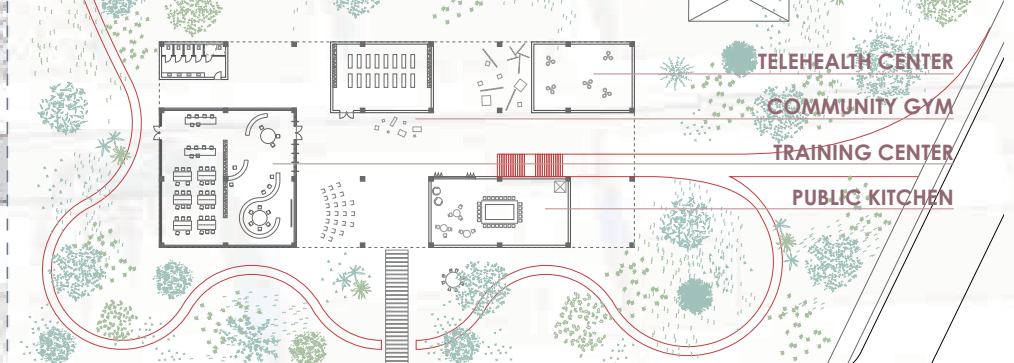
## PROGRAM TRANSITION



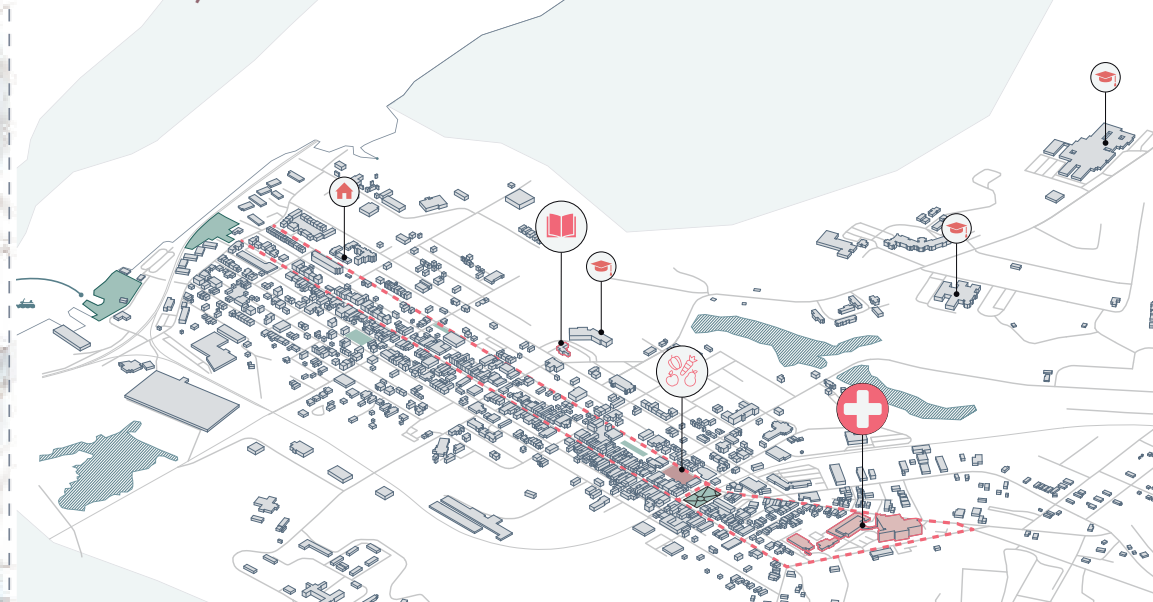
## DOUBLE SKIN FACADE



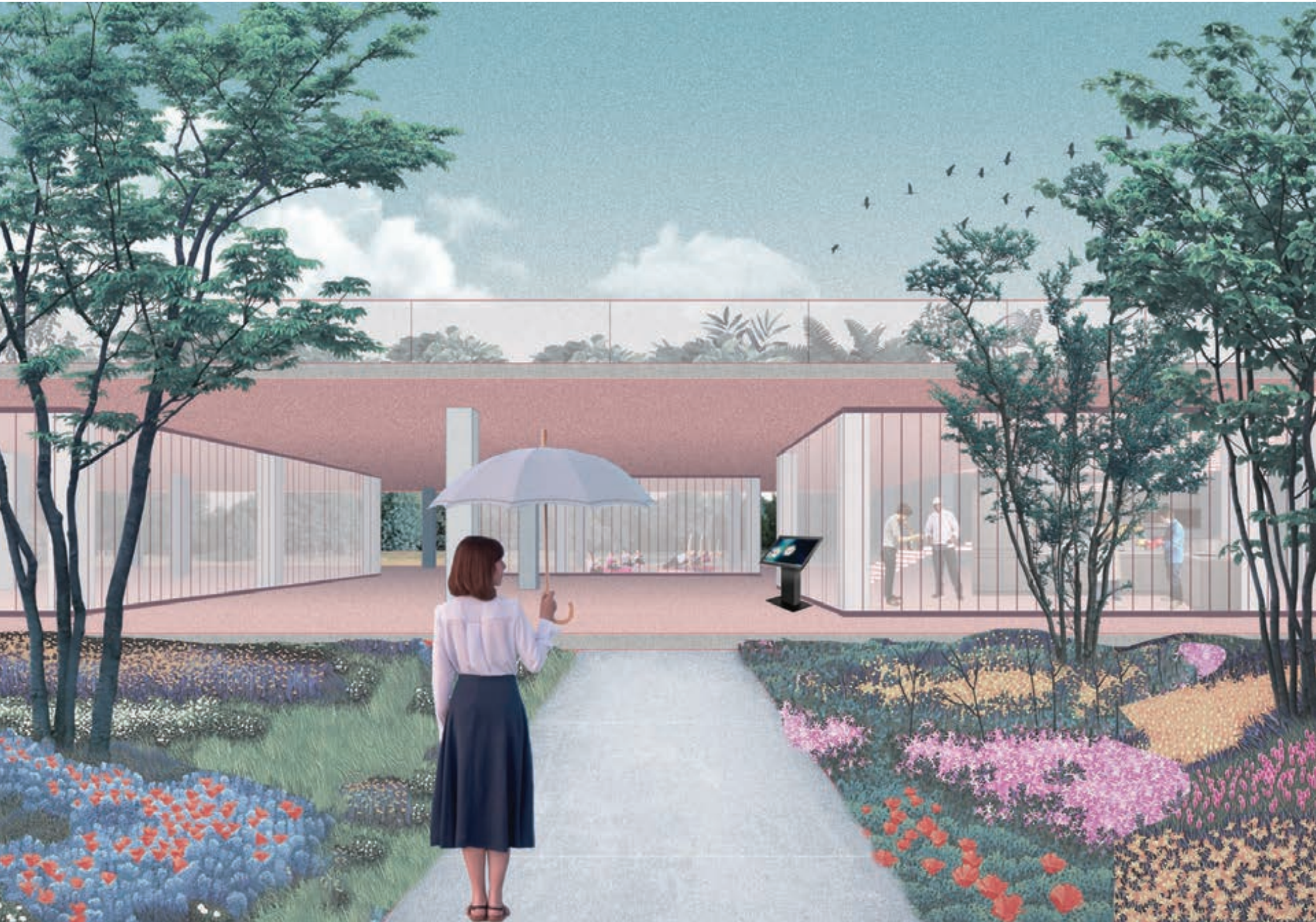
## COMMUNITY PAVILLION



## COLUMBIA MEMORIAL HOSPITAL HUDSON, COLUMBIA COUNTY



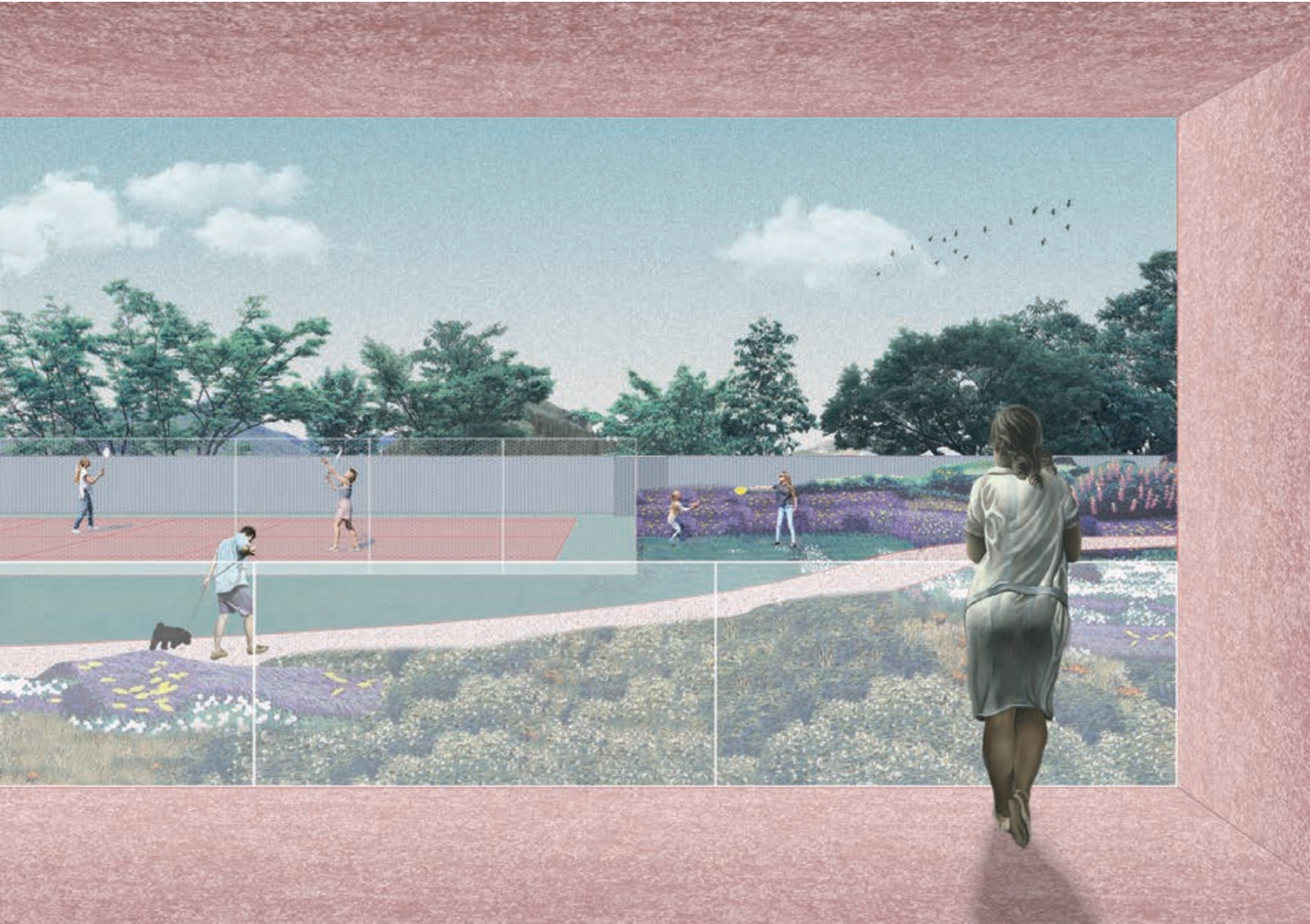
COMMUNITY PAVILION



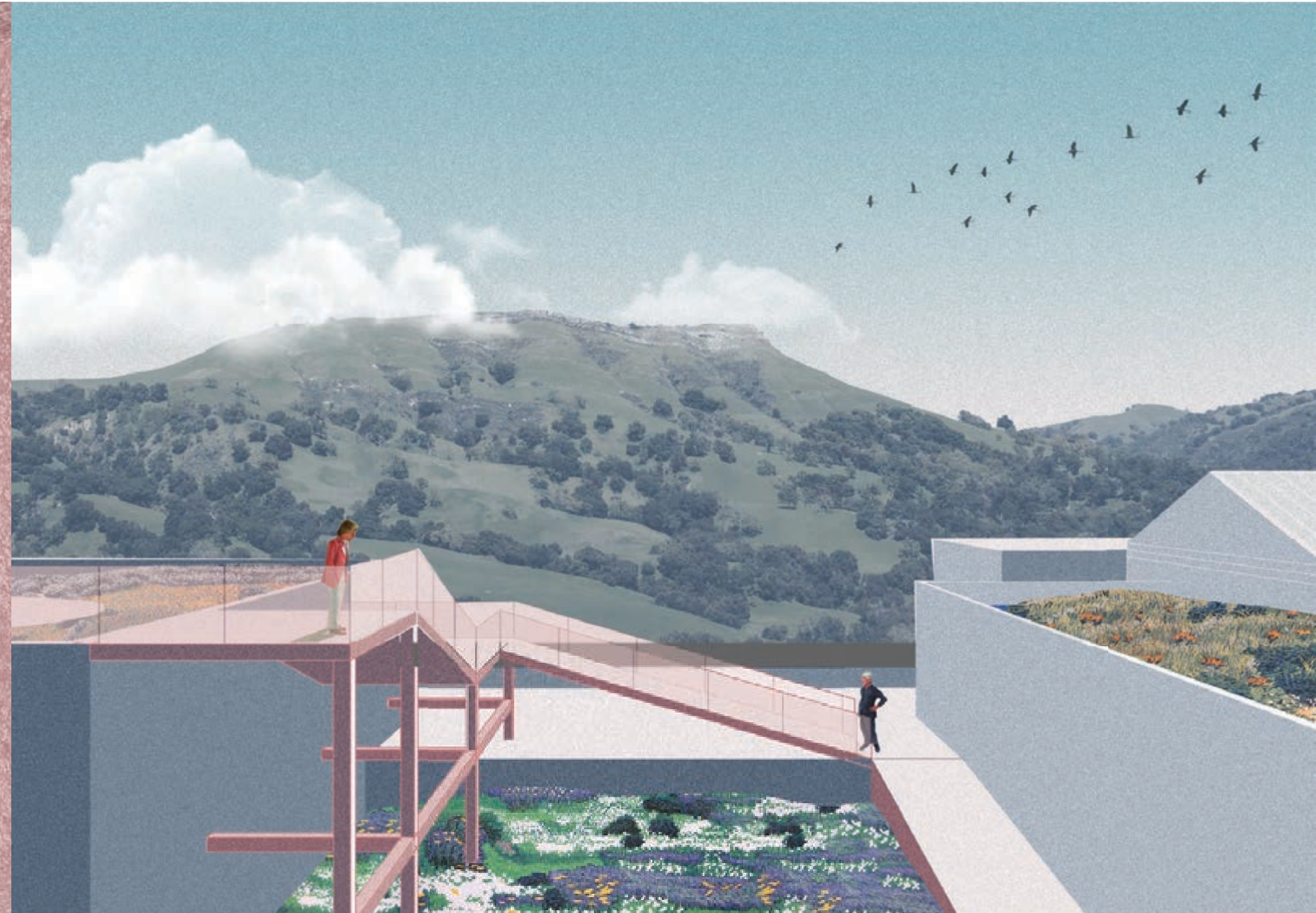
PUBLIC TERRACE

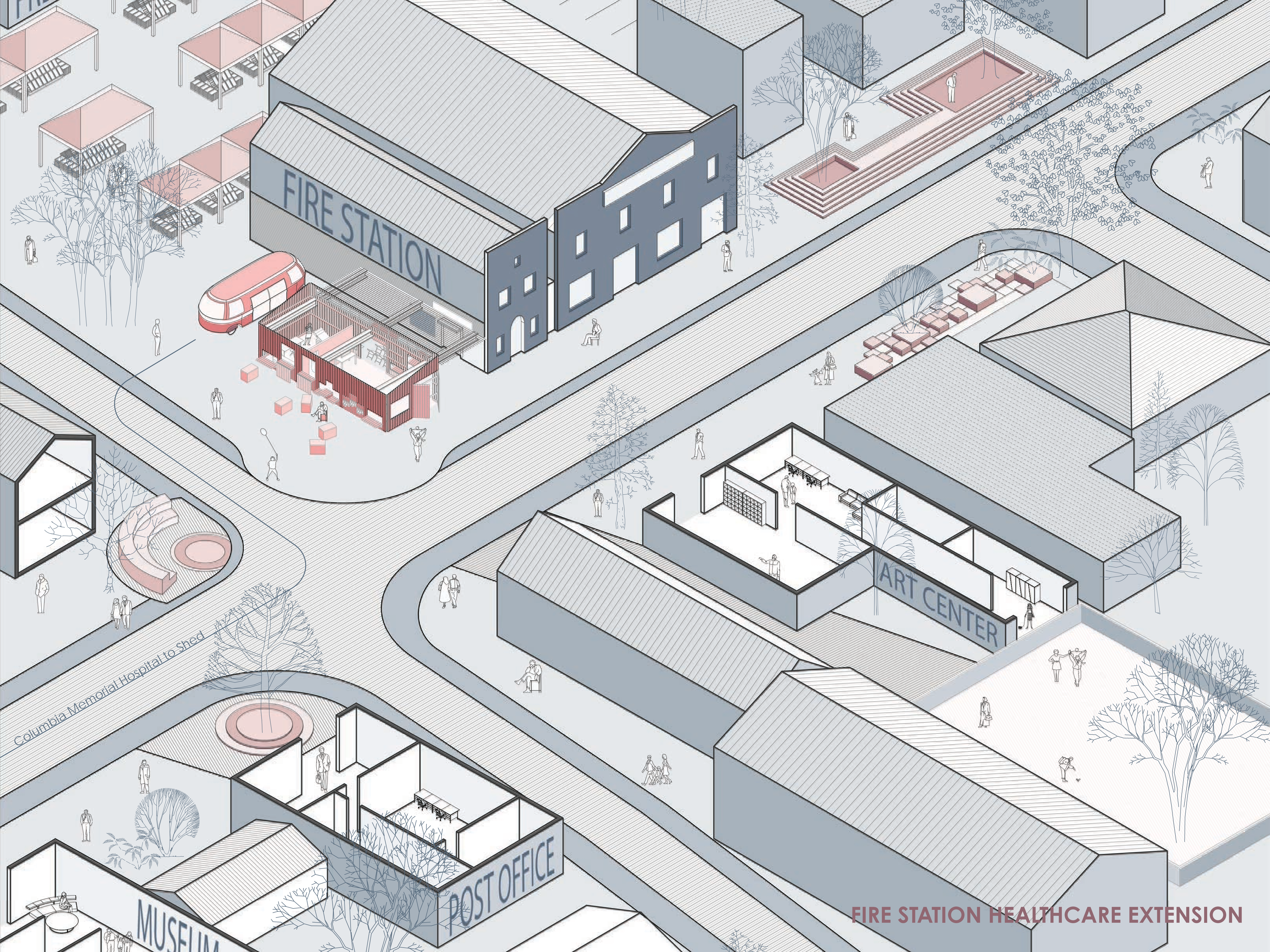


# DOUBLE FACADE



# GREEN ROOF





FIRE STATION

ART CENTER

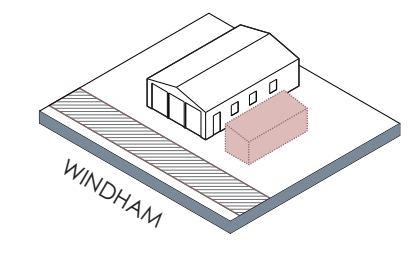
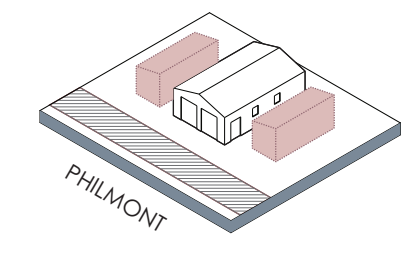
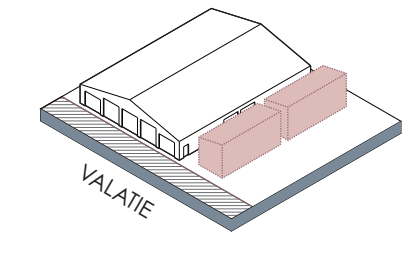
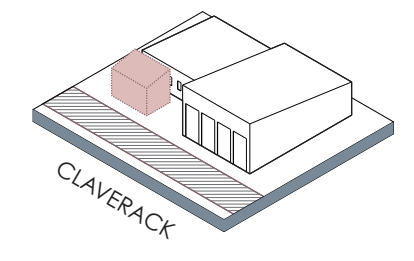
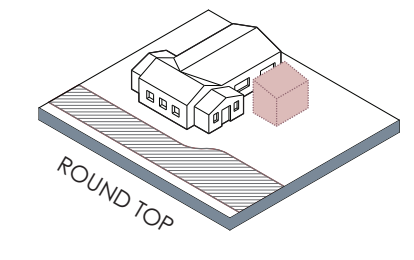
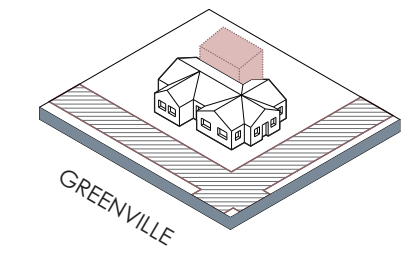
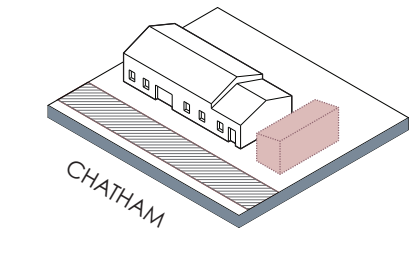
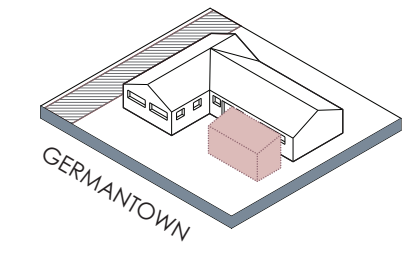
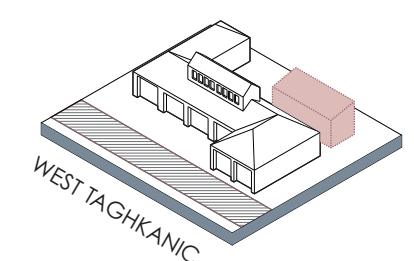
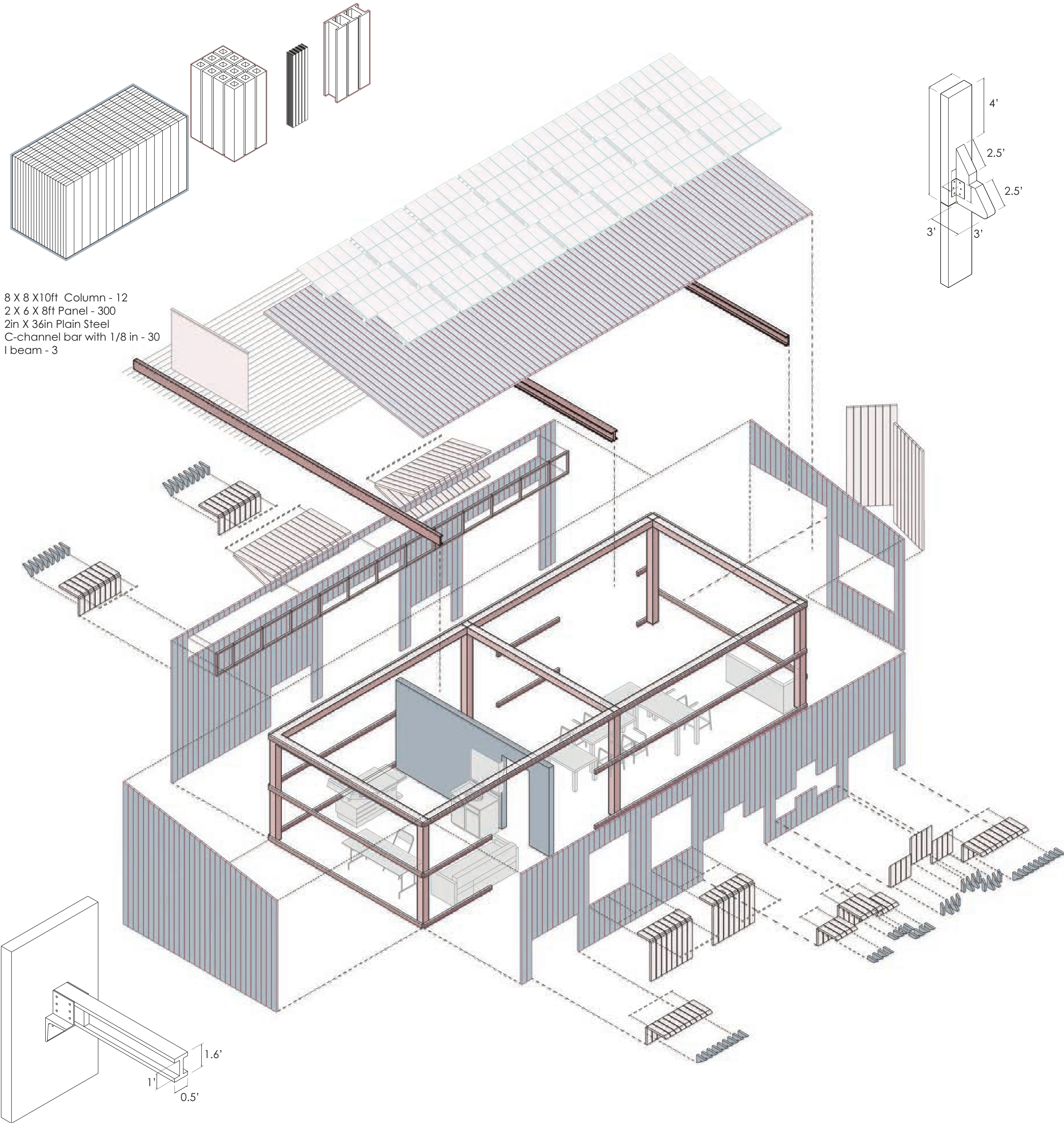
POST OFFICE

MUSEUM

Columbia Memorial Hospital to Shed

FIRE STATION HEALTHCARE EXTENSION

# RURAL MODULAR SHED



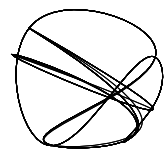


HEALTHCARE AT LOCAL FIRESTATION



MODULAR SHED AS LIVING ROOM + HEALTH CENTER





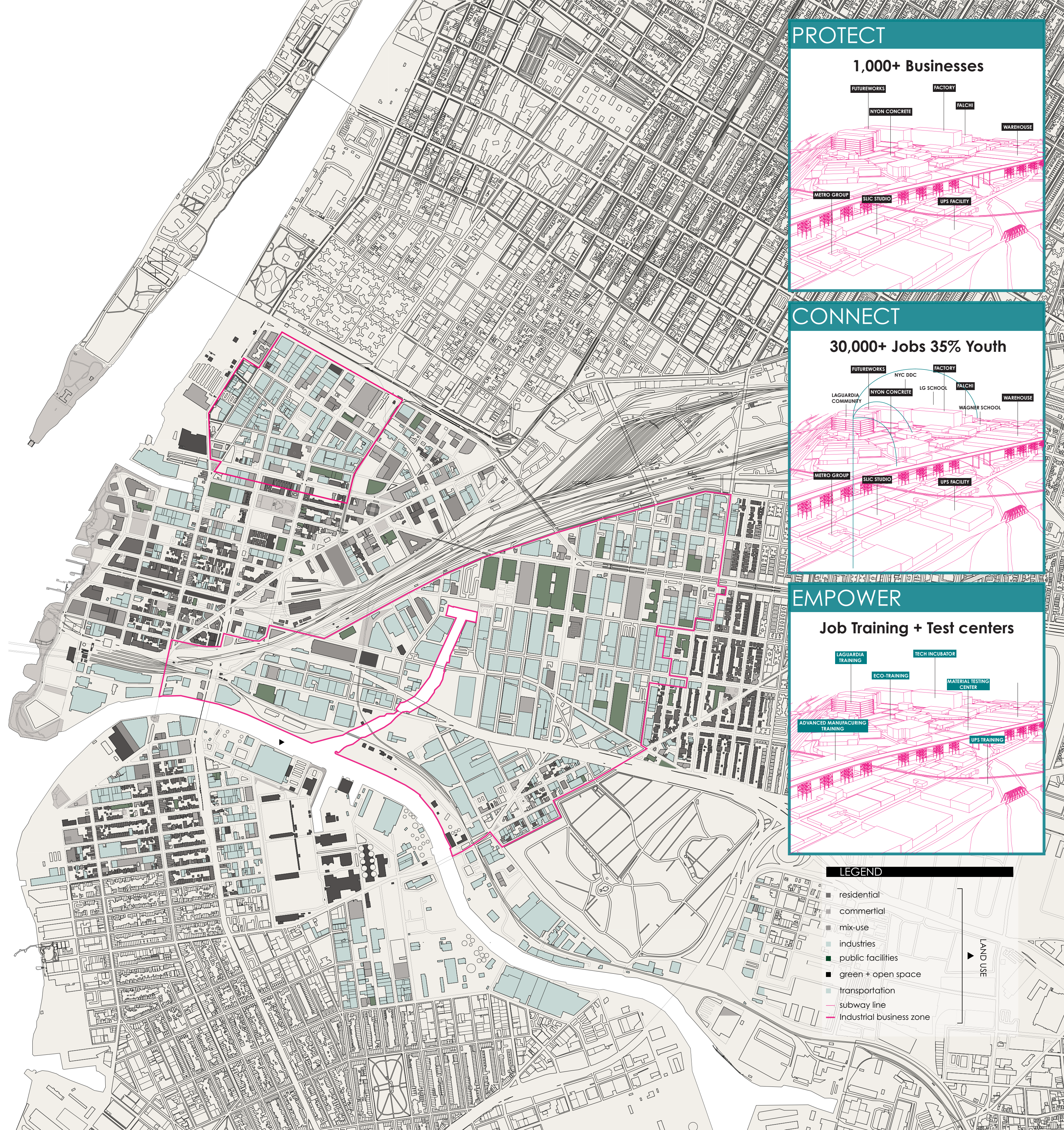
# CONNECTING I.B.Z

Industrial Resilience in Long Island City,  
New York

Collaborator(s) : Tian Hao

East Long Island City, originally developed as a manufacturing center, is home to over a thousand business that provide 26,000+ jobs. However, many educational institutions have become part of LIC, attracting thousands of young adults to the area. East LIC Industrial business zone faces threat of displacement with growing commercial and residential needs. Despite its diverse demographic, Long Island city fails to meet the basic needs of green space, safe pedestrian access, and lack of connectivity within the education and business community.

The project proposes a transitional job platform to innovate, connect and empower youth and existing businesses in Long Island City. The testing centers knits together different programs that are accessible to the entire community such as shared working spaces, a business center, advanced manufacturing training, and more.



## PROTECT

1,000+ Businesses

- FUTUREWORKS
- FACTORY
- NYON CONCRETE
- FALCHI
- WAREHOUSE
- METRO GROUP
- SLIC STUDIO
- UPS FACILITY

## CONNECT

30,000+ Jobs 35% Youth

- FUTUREWORKS
- NYC DDC
- FACTORY
- FALCHI
- WAREHOUSE
- LAGUARDIA COMMUNITY
- NYON CONCRETE
- LG SCHOOL
- WAGNER SCHOOL
- METRO GROUP
- SLIC STUDIO
- UPS FACILITY

## EMPOWER

Job Training + Test centers

- LAGUARDIA TRAINING
- TECH INCUBATOR
- ECO-TRAINING
- MATERIAL TESTING CENTER
- ADVANCED MANUFACTURING TRAINING
- UPS TRAINING

### LEGEND

- residential
- commercial
- mix-use
- industries
- public facilities
- green + open space
- transportation
- subway line
- Industrial business zone

LAND USE



CUNY

The Bridge

LG College

LG College

DDC

Business Center

Creek Park

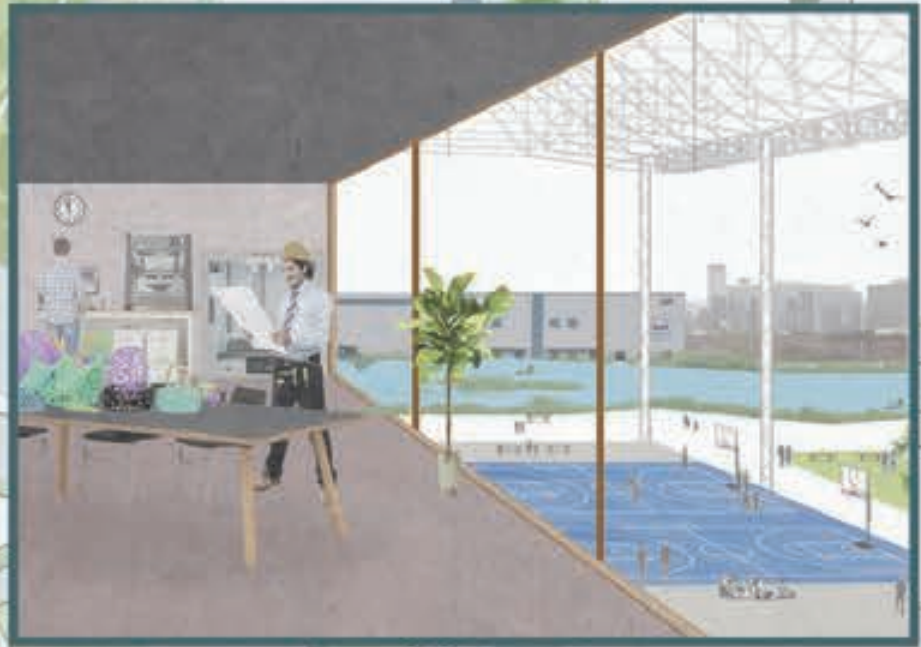
Community Garden

Training Classroom

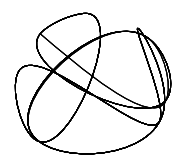
Sport Center

UPS Office

Training Classroom







## DAYLIGHTING NEVE SHA'ANAN

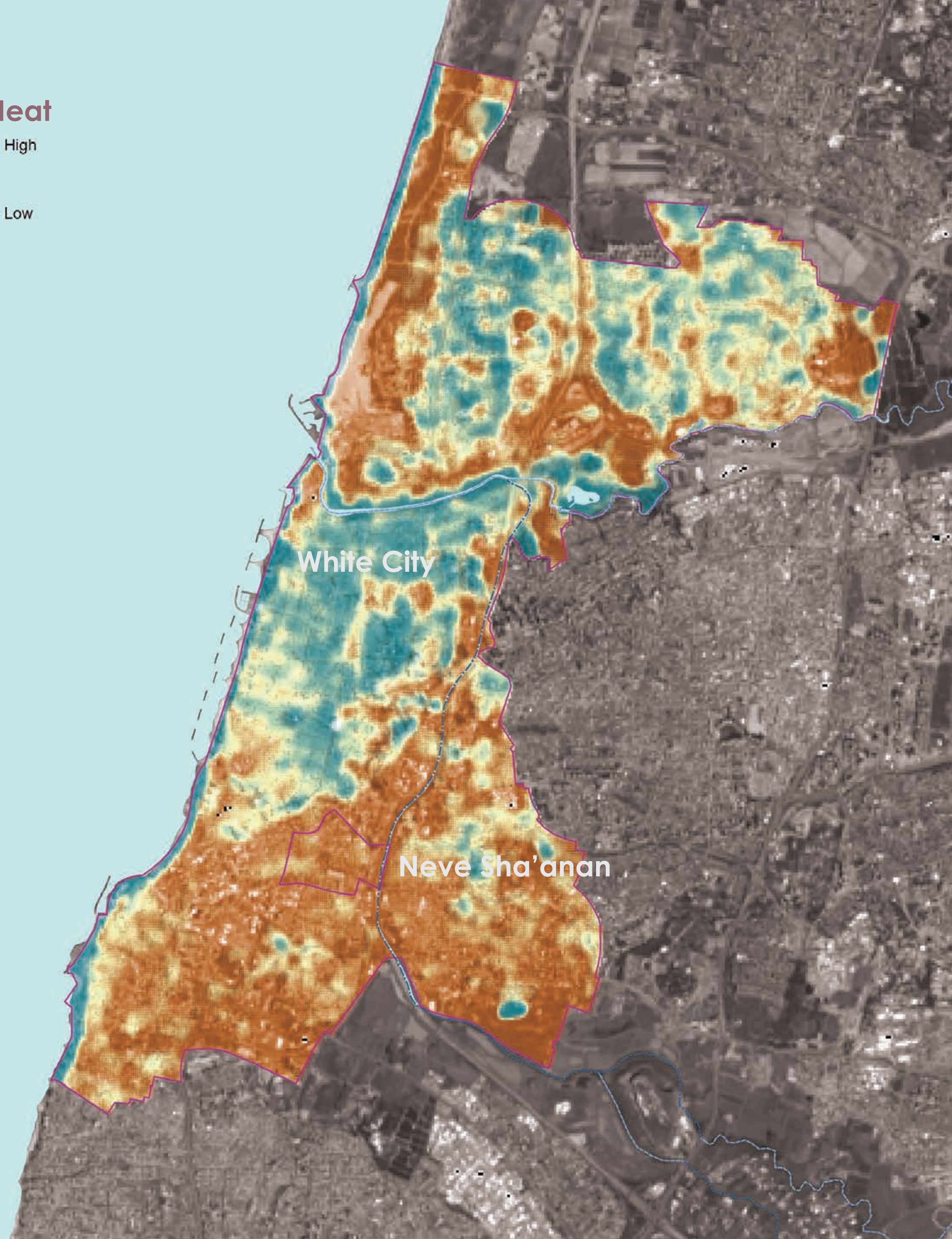
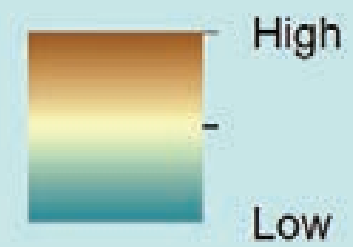
Social Empowerment in Tel Aviv-Yafo, Israel

Collaborator(s) : Antonia Abell, Candelaria Mas Pohmajevic,  
Niharika Shekhawat

Neve Sha'anun has a unique character of transition, emphasized by the location of the Central Bus Station. It is home to migrant workers and asylum seekers from African countries, who reside in a liminal state. Their "in-betweenness" is deemed as negative by the city that is unable to meet their needs. Both people and water are contained between bureaucratic boundaries of legality and channeling. They are siloed behind the facades of Neve Sha'anun and the walls of the Ayalon Highway.

Therefore, our project aims to empower residents of Neve Sha'anun, through a new Community Action Lab, and bringing to light its marginalized community and ecological assets.

### Urban Heat

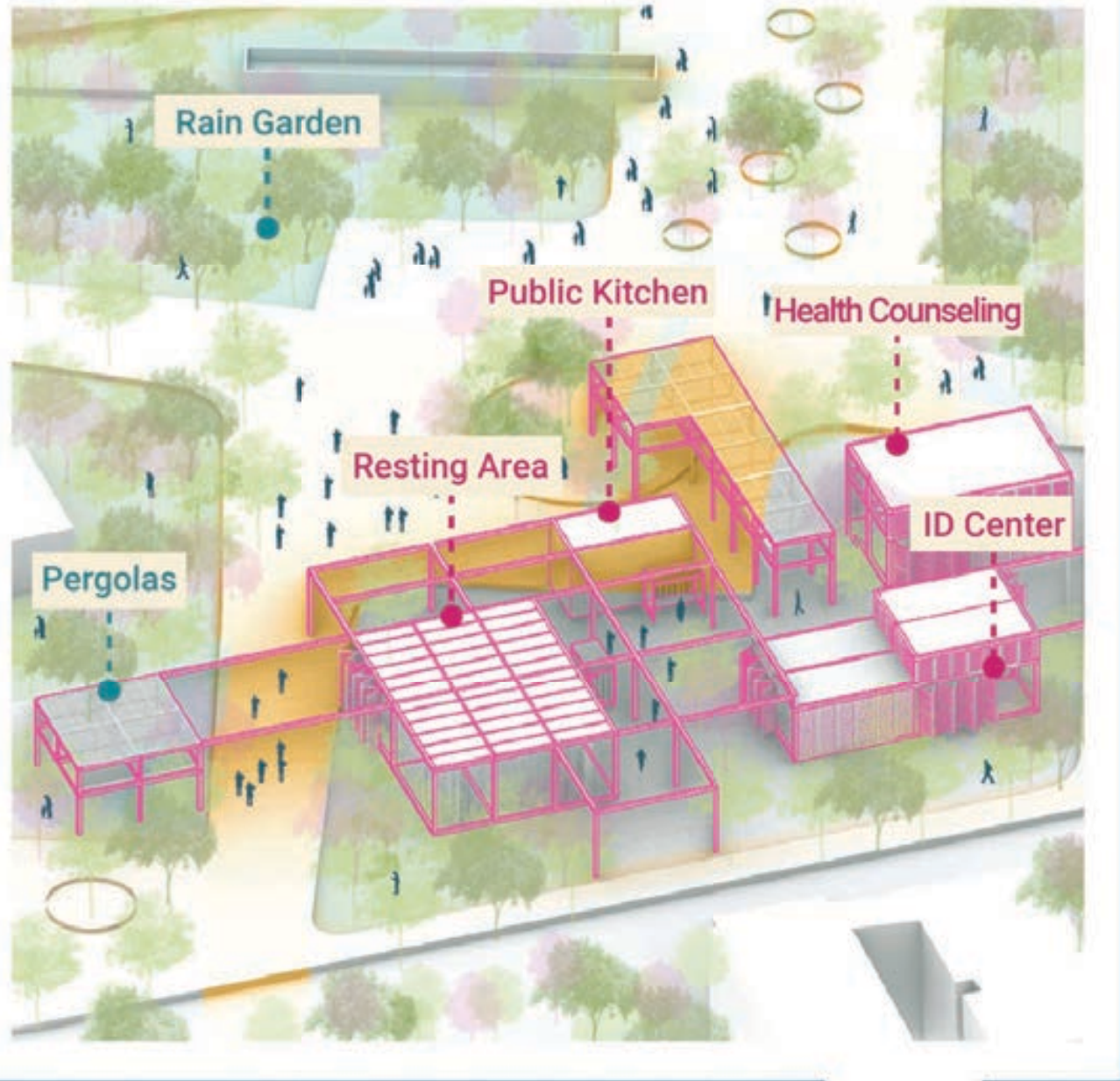


# Neve Sha'anani Action Lab



A series of community-driven projects are carried out in Neve Sha'anani through funding provided by the municipality (through Mesila) and grassroots organizations such as the ONYA Collective. Neve Sha'anani could be empowered by the people and for the people. The Action Lab leverages social capital as an incentive to promote civic participation, striving to bring positive change in migrants' quality of life.

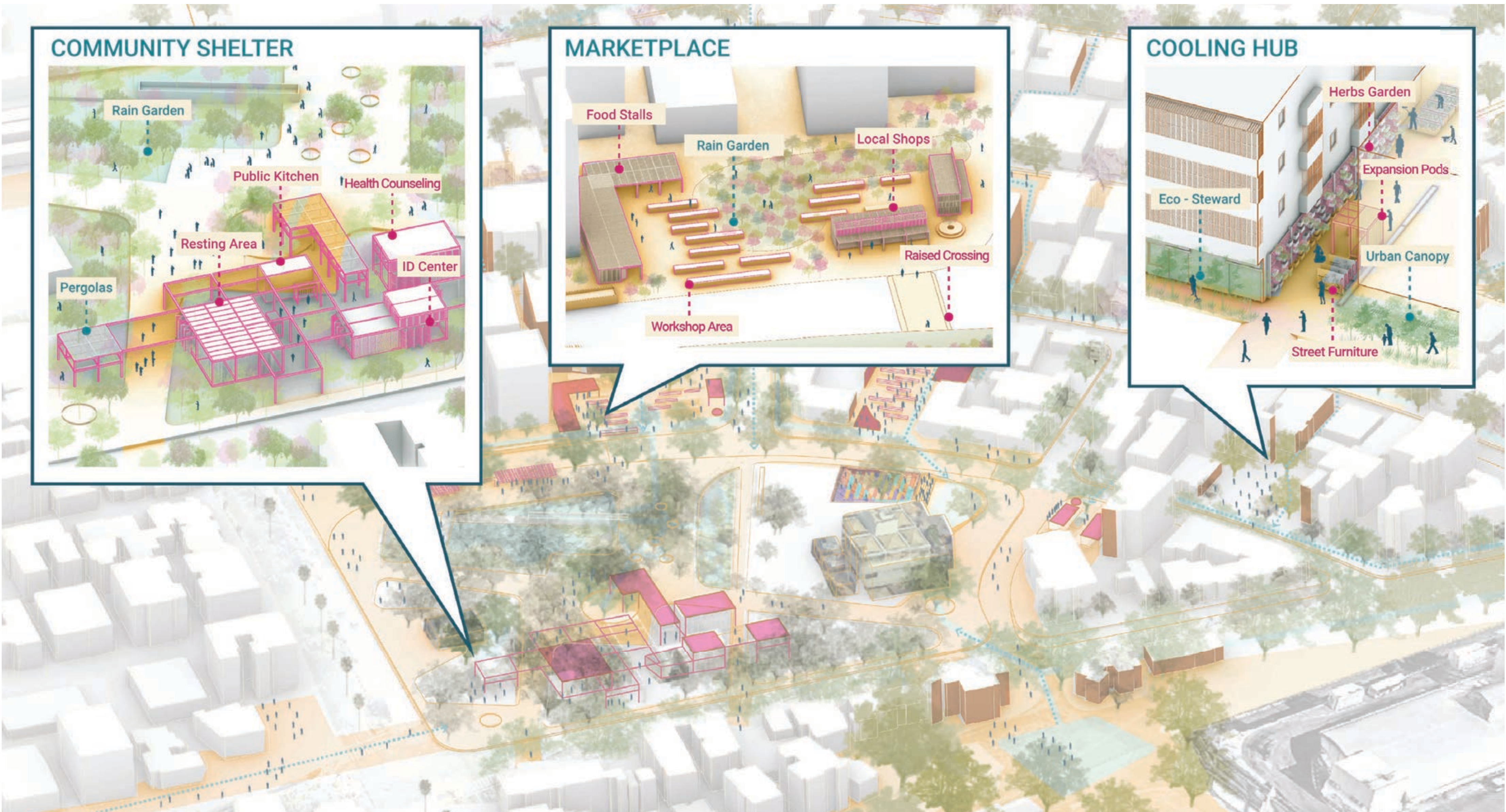
### COMMUNITY SHELTER



### MARKETPLACE



### COOLING HUB



NEW TREE CANOPY

COOLING POD

DAYCARE

KNITTING COLLECTIVE

HERBS GARDEN

While I rebuild our neighborhood, my baby is in daycare...





SOIL REBUILDING WORKSHOP

NEW TREE CANOPY

MADE IN NEVE SHA'ANAN BRANDING



לימוד עברית

Now I can find my hometown products in Tel Aviv!

Wi-Fi Spot

Neve Sha'anah MARKETPLACE





SOIL REBUILDING WORKSHOP

WINTER RAIN GARDENS

I'm a resident now!  
I can't wait to recover the  
Ayalon River Floodplain!

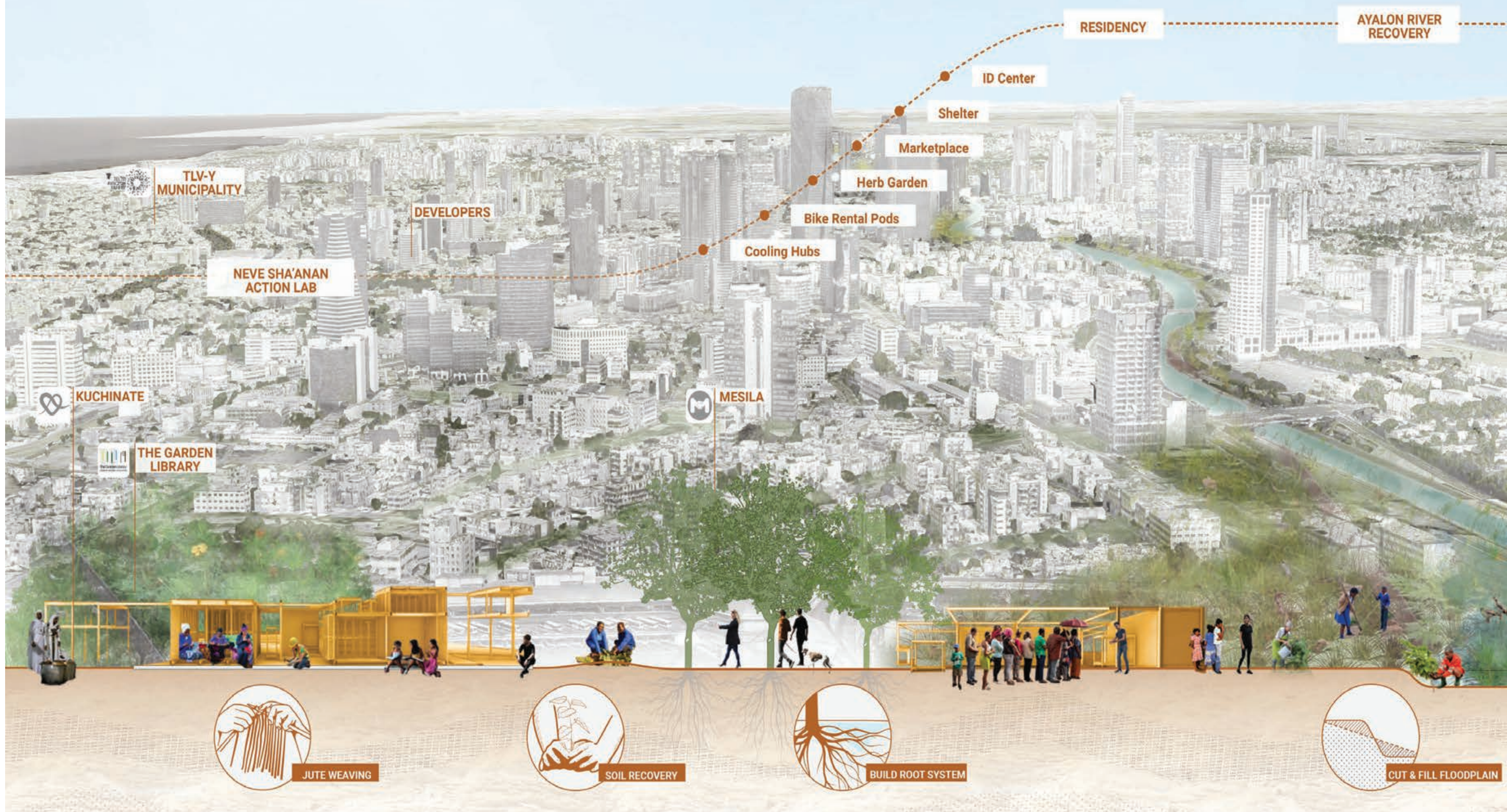
לימד עברית

Get your  
RESIDENT ID  
HERE



# Empowering south Tel Aviv-Yafo through collaborative design

The public-private partnership will enable Neve Sha'anun Action Lab to train migrant workers and asylum seekers, becoming the neighborhood's agents of change. The Action Lab will foster the community's social capital and incentivize stewardship while improving quality of life of the residents of Neve Sha'anun. It empowers migrants to climb the ladder of permanence while celebrating their identity.

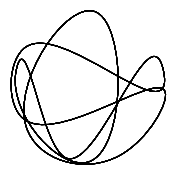


# From Resilient Neve Sha'anon to Resilient Tel-Aviv Yafo



The interventions of the Action Lab extend to the city, reaching the Ayalon floodplain and connecting the new pedestrian streets with Rothschild Boulevard.

Through a strong workforce the migrants and asylum seekers will unbuild the Ayalon Highway and recover the river edge. The space will be transformed into an expanded floodplain during the winter, while serving as a public water-sensitive infrastructure for Tel Aviv-Yafo during the warm months.



## PUBLIC WORKSHOP

River revitalization in Johnstown, Pennsylvania

Can Johnstown's rivers become resilient infrastructure and support economic revitalization? How can re-imagining the Conemaugh and Stoneycreek Rivers help catalyze reinvestment in infrastructure, revivify civic life, and create economic opportunity for Johnstown in the 21st century?

Johnstown Vision 2025 is working with Columbia University students and faculty from the Graduate School of Architecture, Planning and Preservation and the Center for Resilient Cities and Landscapes to facilitate a workshop with the Johnstown Interagency Taskforce, a coalition of 30 federal, state, and local government agencies and community representatives that has met twice annually since 2017 to coordinate resources and investment in the City. Previous workshop topics have included Grant Funding Opportunities, Economic Diversification, and Public Risk Management. The objective of this workshop is to identify and illustrate the city's current resilience priorities, policies, and projects; and to discuss opportunities for coordination of efforts toward resilient infrastructure and landscapes.



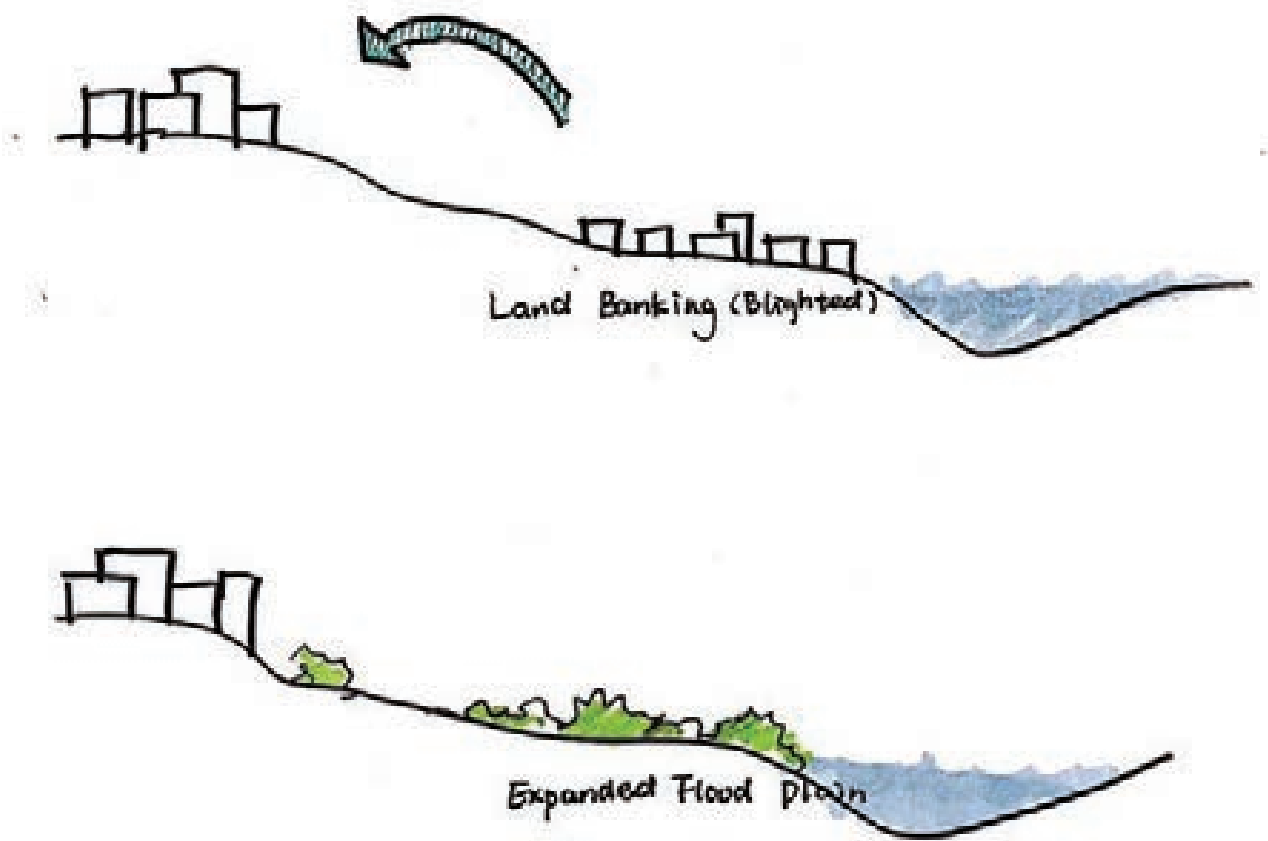
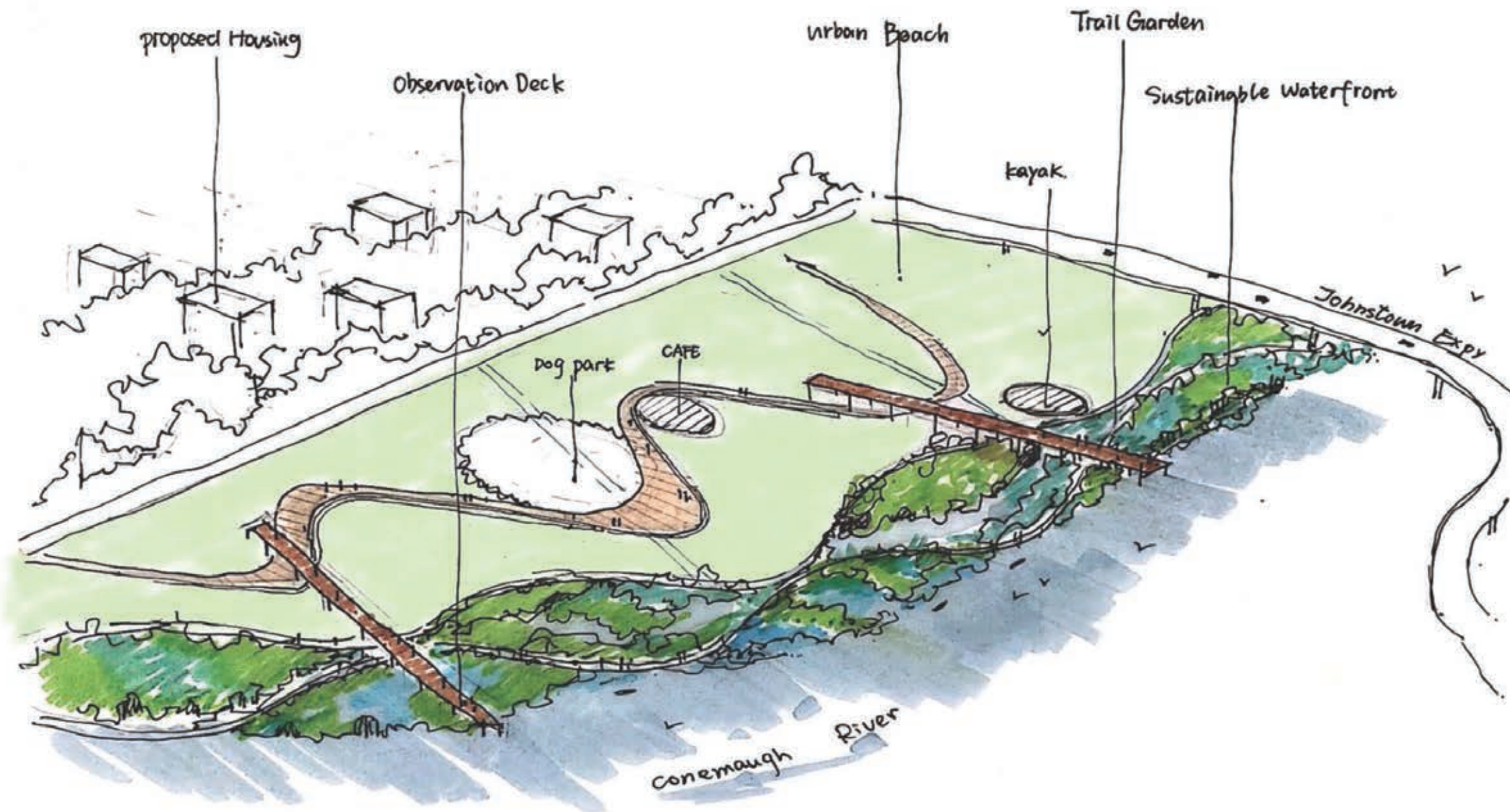
What if all the **small cities** in Western Pennsylvania could be linked by high speed regional rail?

What if **former steel mills** could be put back to work building renewable energy infrastructure?

What if **deteriorating flood control infrastructure** could be rebuilt for the storms of the 21st century as a vast, forested urban park?

What if **abandoned housing** could be refurbished by and for climate refugees?

What if the city's **wounded identity** could be reborn as resilient and green oasis for making art, culture, and green industry?

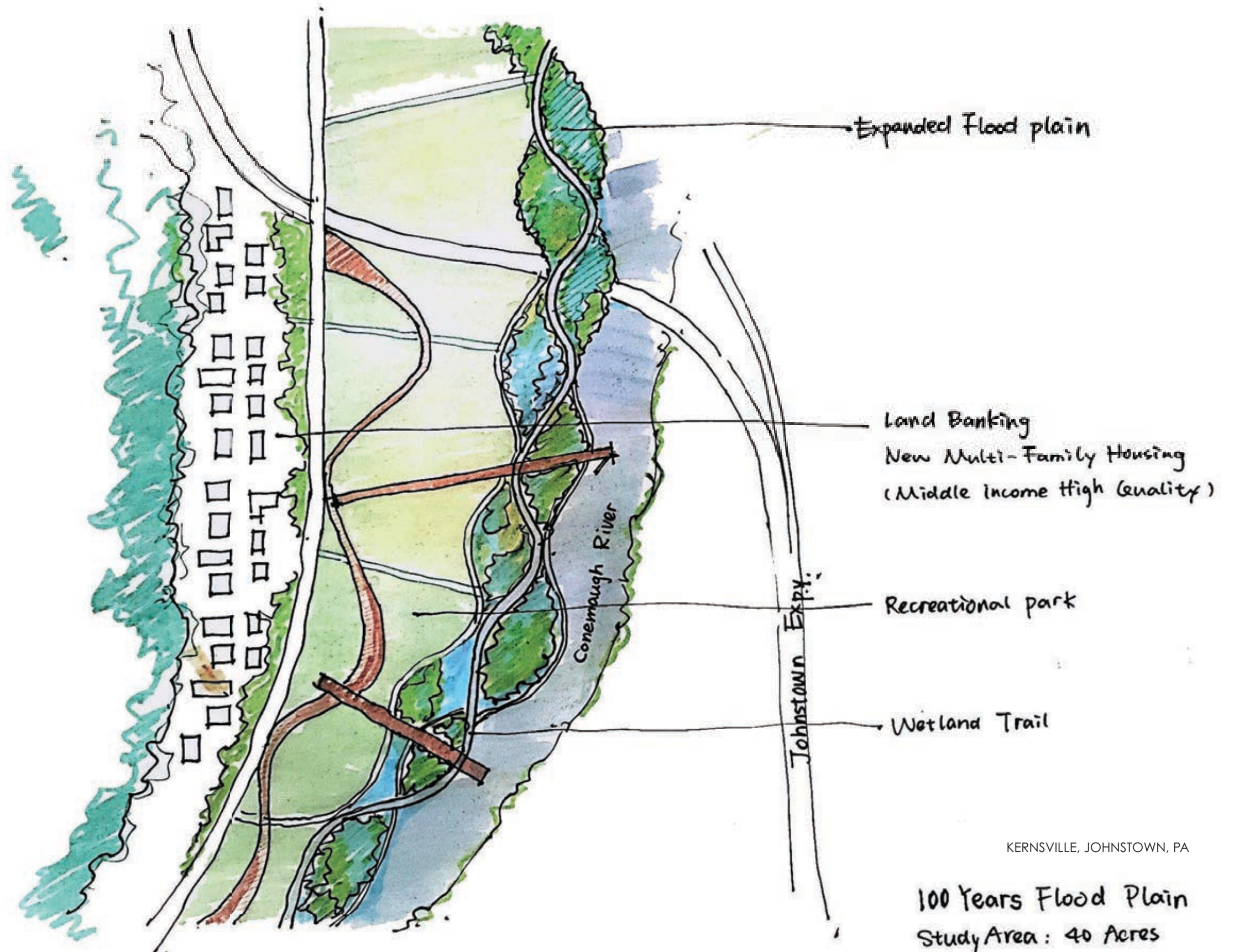


LAND BANKING STRATEGY

Johnstown's water problems don't start or end at the river. A consent decree is mandating that every household make improvements to ensure that stormwater does not overwhelm the waste-water treatment plant. With increased precipitation, Johnstown will need even more storage for water. More grey solutions--tanks and pipes--will be costly to build and maintain, prone to failure, and not provide the added benefits provided by the green alternative: a forest.

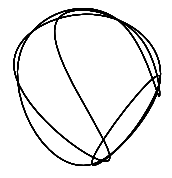
If blighted properties beyond repair along the rivers could be assembled into a landbank, the riverlands could expand into a vast, forested park that could help to absorb stormwater in regular storms, act as holding reservoirs in flood stage, and provide an enormous public benefit in good weather. The park could also be designed to help to remediate the remaining acid mine discharge sites.

The Johnstown River Park would help to realize a vision that was articulated again and again during the workshop: Johnstown as a green oasis, a mountain town surrounded by lush, green hillsides and crystalline watercourses, a centerpiece in a regional network of hiking trails that meet in Johnstown and extend to Pittsburgh, New York and Washington D.C.



KERNSVILLE, JOHNSTOWN, PA

100 Years Flood Plain  
Study Area: 40 Acres



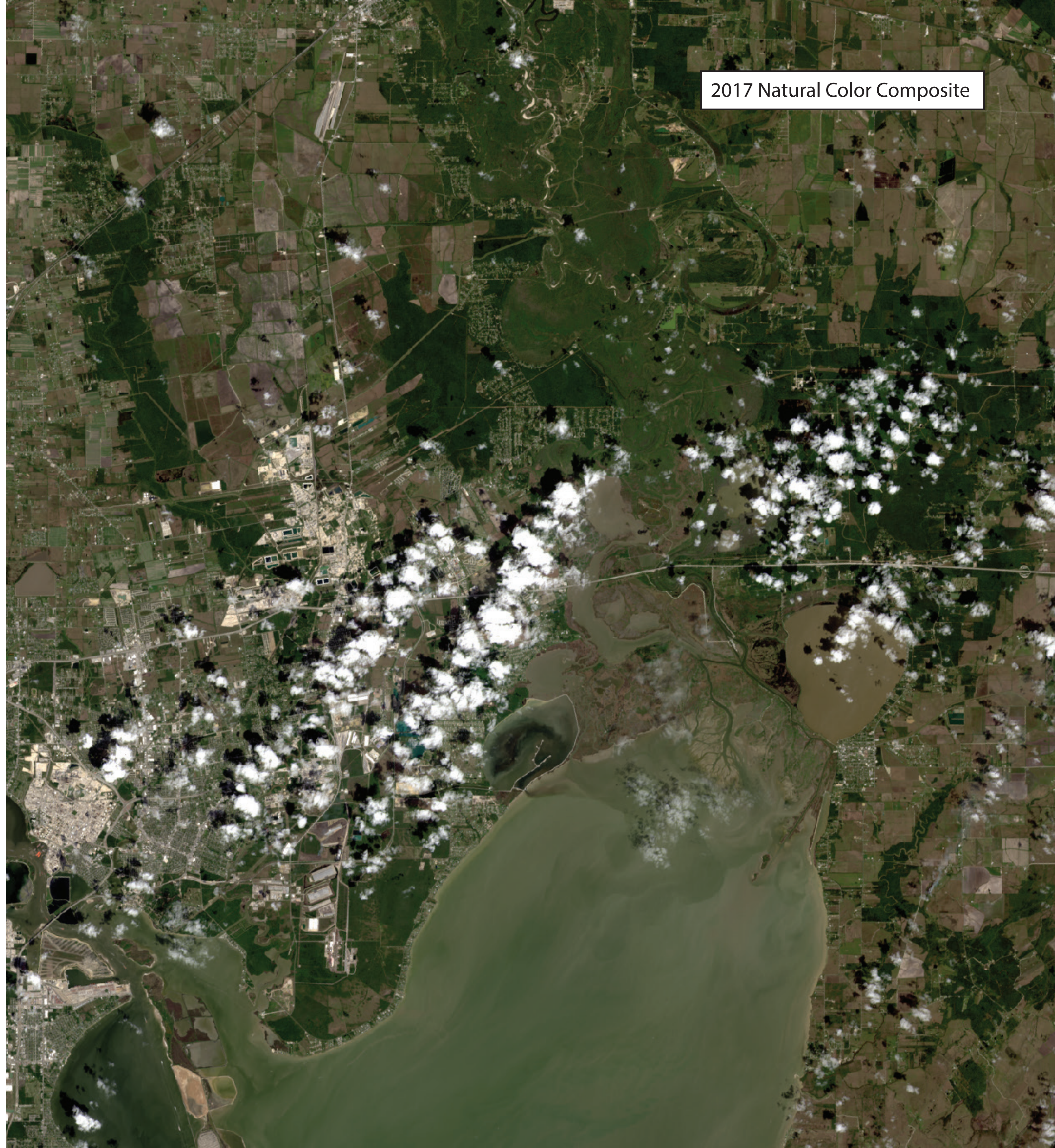
## REMOTE SENSING

Tracing urban transformation in Houston, Texas

Four major hurricanes – Harvey, Irma, Jose, and Maria – have ravaged the US in 2017. Since hurricane forecasting has vastly improved in the past century, many lives have been saved. However, despite the accurate forecasting, the damages incurred during the last year's season have been among the most costly in recorded history. Advances in forecasting have not stopped us from continuing to build in the floodplain.

This project starts with the hypothesis that in the case of Houston, TX, the loss of wetlands as a result of lax regulations and rampant development has been a major cause of flooding that ultimately resulted in catastrophic property damage. There is a scientific consensus that wetlands can absorb large amounts of flood water. While it is fair to say that the vanished wetlands of Houston wouldn't have prevented flooding, experts agree that they would have made it a lot less painful. Using false color satellite imagery, we will visualize and measure the loss of wetlands in Houston, TX, between 1987 and 2017.

2017 Natural Color Composite



1987 Infrared Color Composite



2017 Infrared Color Composite





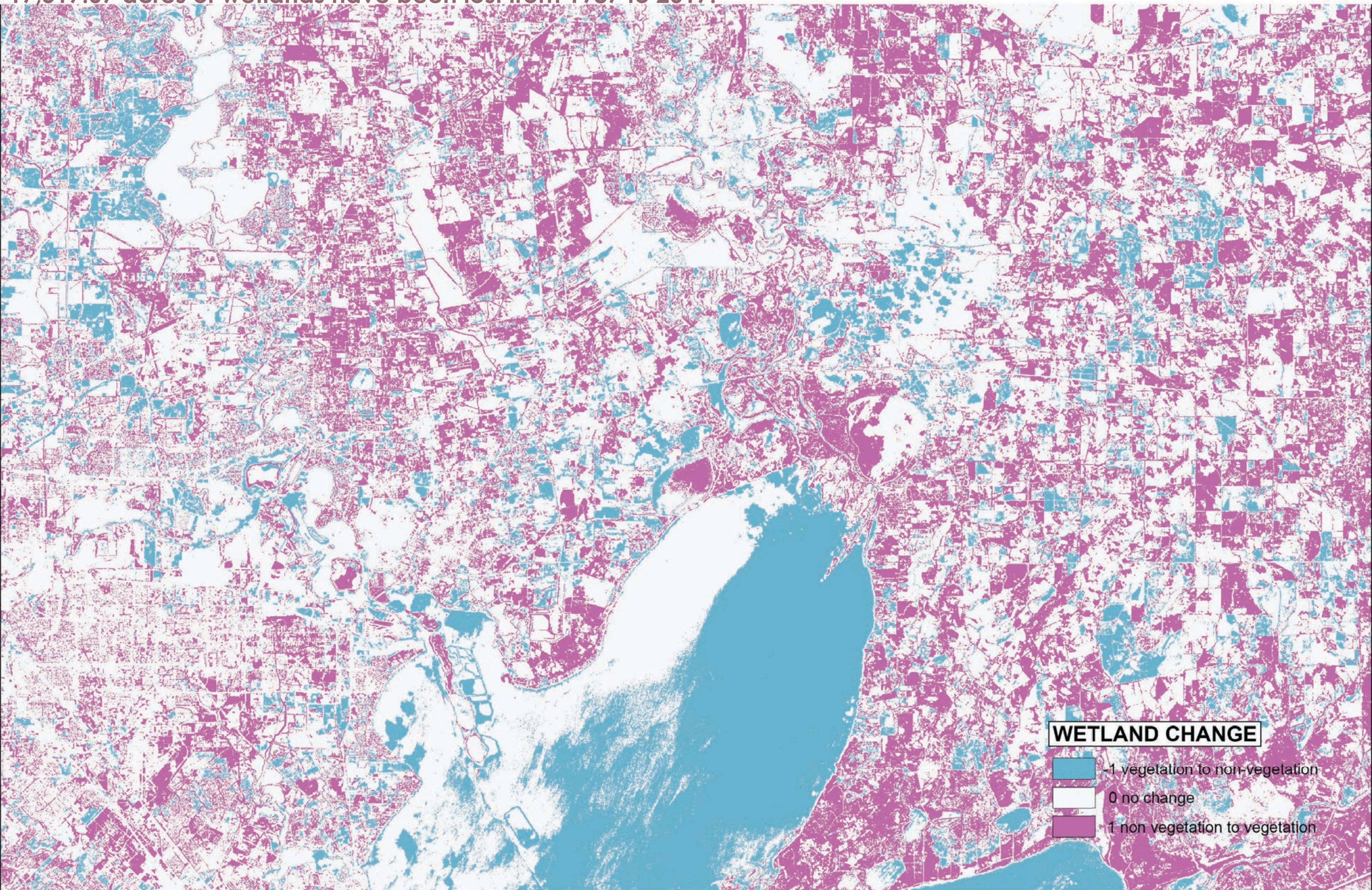
1987 False Color Urban Composite



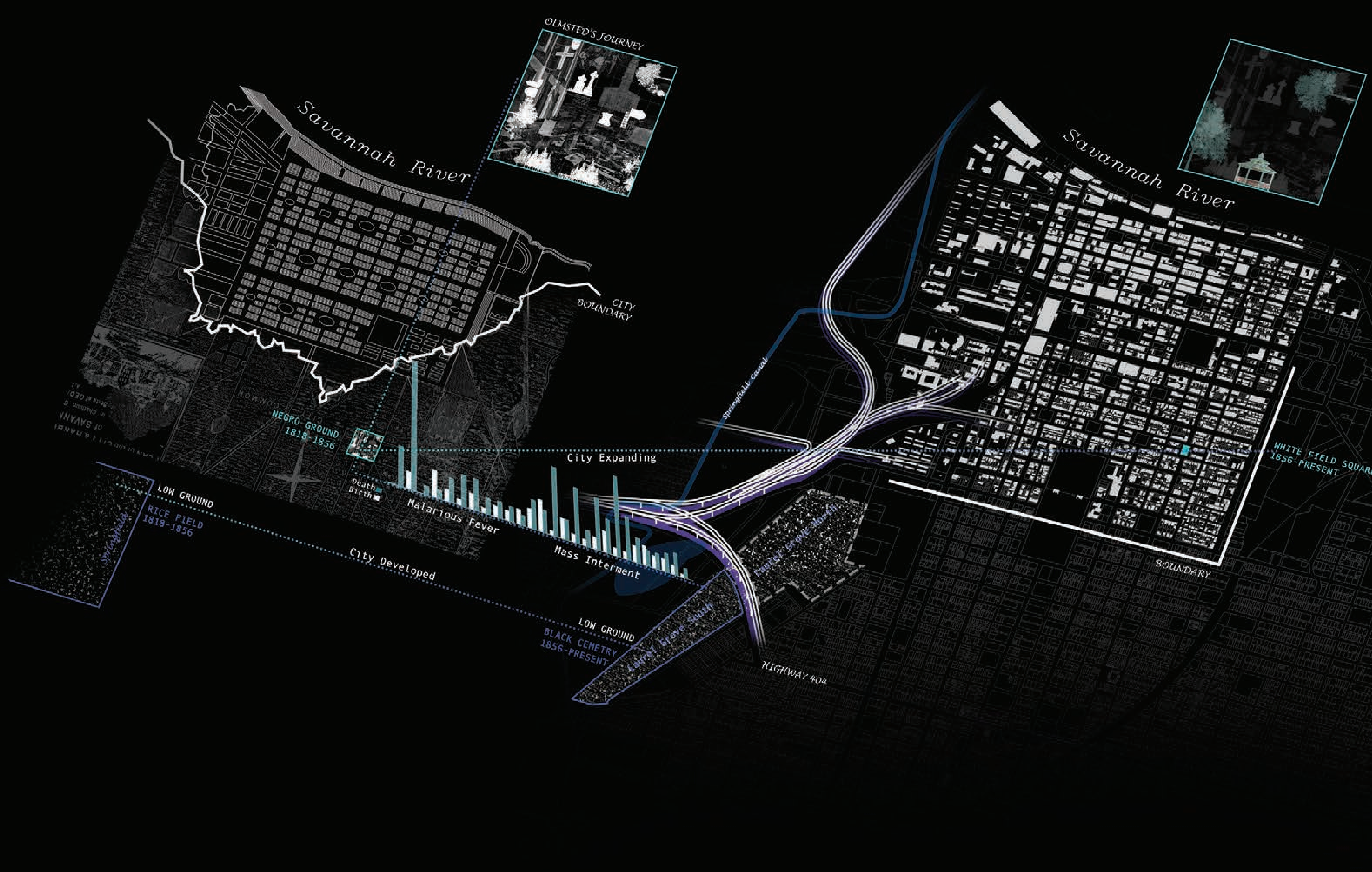
2017 False Color Urban Composite



17,517.07 acres of wetlands have been lost from 1987 to 2017.







THEN

NOW

The Robert Verdier family brick facade which contains a large stone inscriptional tablet as well as a semi-circular stone nameplate with flora decoration.



**MAUSOLEA**

HIGH ECONOMIC STATUS

A. M. Monroe  
 coursed quarry-faced ashlar masonry with black iron gate opening into the interior of the vault

1554	1550	1634	1646
1555	1551	1635	1645
1556	1552	1636	1639
1557	1553	1637	1644
1558	1554	1638	1640
1559	1555	1639	1641
	1556	1640	1642
	1557	1641	1643
	1558	1642	1644
	1559	1643	1645



Samuel Benjamin Morse  
 First color man graduated Atlanta University Grays  
 Employed by Government

Rev. Ulysses L. Houston, pastor, father, shepherd  
 Rev. Houston's importance to the black community, accomplished needed restoration work on Houston's grave site in 1973



NOT SLAVED, PASTOR OF CHURCH, UNIVERSITY, GRADUATED, GOVERNMENT EMPLOYEE

**MONOLITHS**

790	794	795	796	797	798	799	800
801							

Monoliths is surrounded by a black iron decorative fence which clearly signifies his importance



Andrew Bryan, Revs. Andrew Marshall and Henry Cunningham

940	950	955	960	965	970	975	980	985	990	995	1000	1005	1010
941	951	956	961	966	971	976	981	986	991	996	1001	1006	1011
942	952	957	962	967	972	977	982	987	992	997	1002	1007	1012
943	953	958	963	968	973	978	983	988	993	998	1003	1008	1013
944	954	959	964	969	974	979	984	989	994	999	1004	1009	1014
945	955	960	965	970	975	980	985	990	995	1000	1005	1010	1015
946	956	961	966	971	976	981	986	991	996	1001	1006	1011	1016
947	957	962	967	972	977	982	987	992	997	1002	1007	1012	1017
948	958	963	968	973	978	983	988	993	998	1003	1008	1013	1018
949	959	964	969	974	979	984	989	994	999	1004	1009	1014	1019

Andrew Bryan  
 Andrew Bryan was born a slave on the plantation of Jonathan Bryan outside Savannah. His leadership was the first black Baptist church in North America. Bryan, after his master's death with the help of white friends, bought his freedom in 1789 or 1790 and continued to pastor the church, often under oppressive conditions

SLAVES FREED THEMSELVES - PASTOR FOR CHURCH, MOVED FROM OLD BURIAL GROUND, THREE CRYPT WALK-IN VAULT

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



Jane A. Deveaux register of "free persons of color"  
 Jane Deveaux ran a clandestine school, teaching blacks to read. For almost 30 years she risked fines and public whippings for her efforts to educate her people.

**CRUDE STONE SLAVED MULATTOES - ARTISAN CLASS**



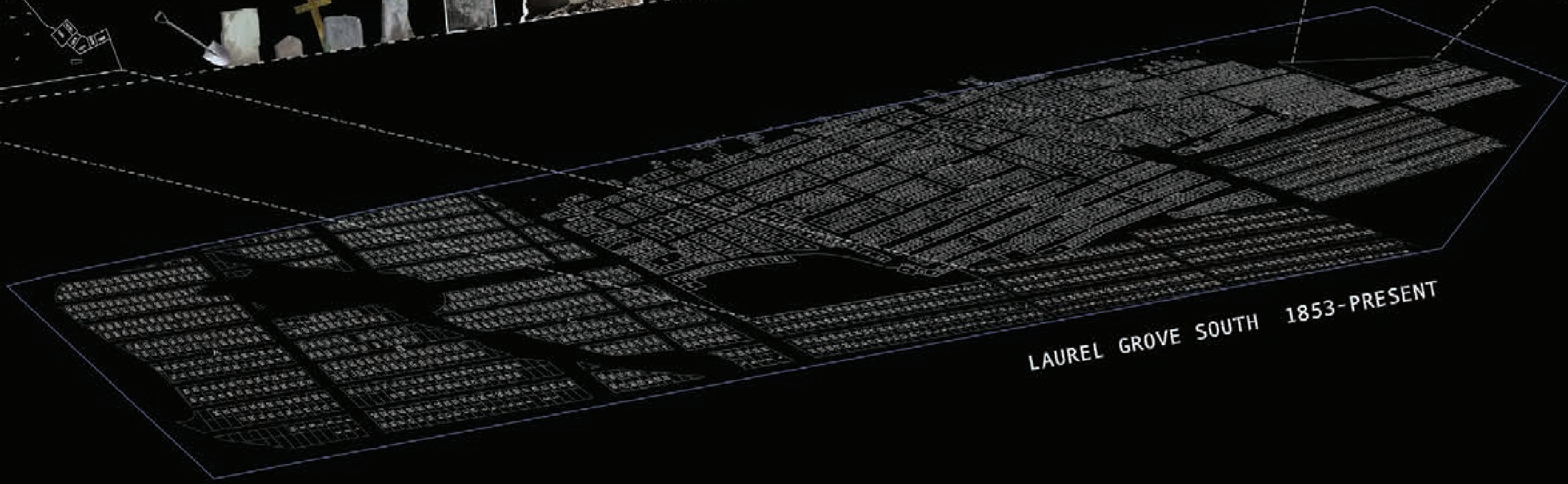
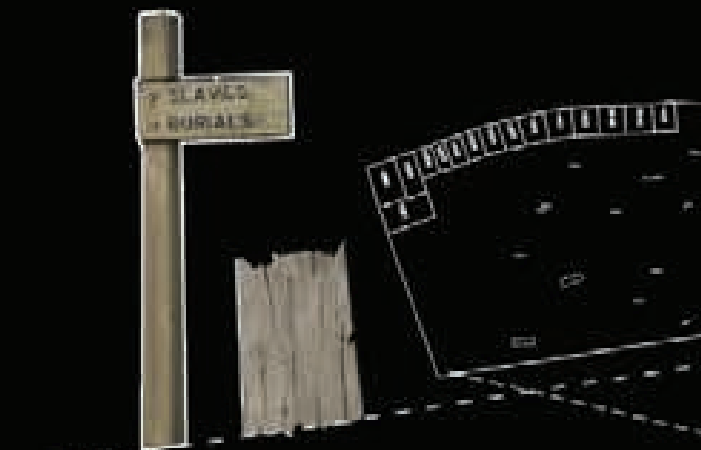
PULASKI  
 on the night of the 14th June, 1858  
 From the age of eleven years, at which she became the personal attendant of her mistress

SARAH  
 the excellent colored servant of Mrs. Corinne Louisa Hutchison, who in her 20th year was drowned by the destruction at sea of the steamer

AUGUST  
 Name (Christian and surname) and dates with occasionally a short religious poem

PLANTATION SLAVES EN MASSE FROM OLD BURIAL GROUND

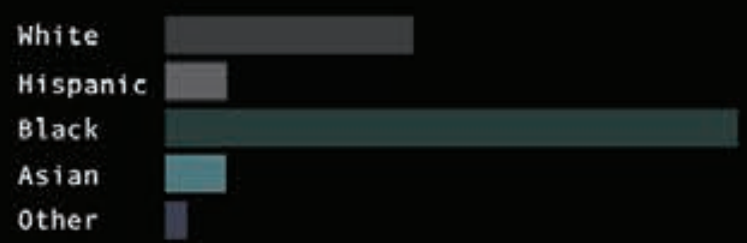
**SMALL STONE TABLET**



LAUREL GROVE SOUTH 1853-PRESENT



MEDIAN PROPERTY PRICE: **\$126,945**

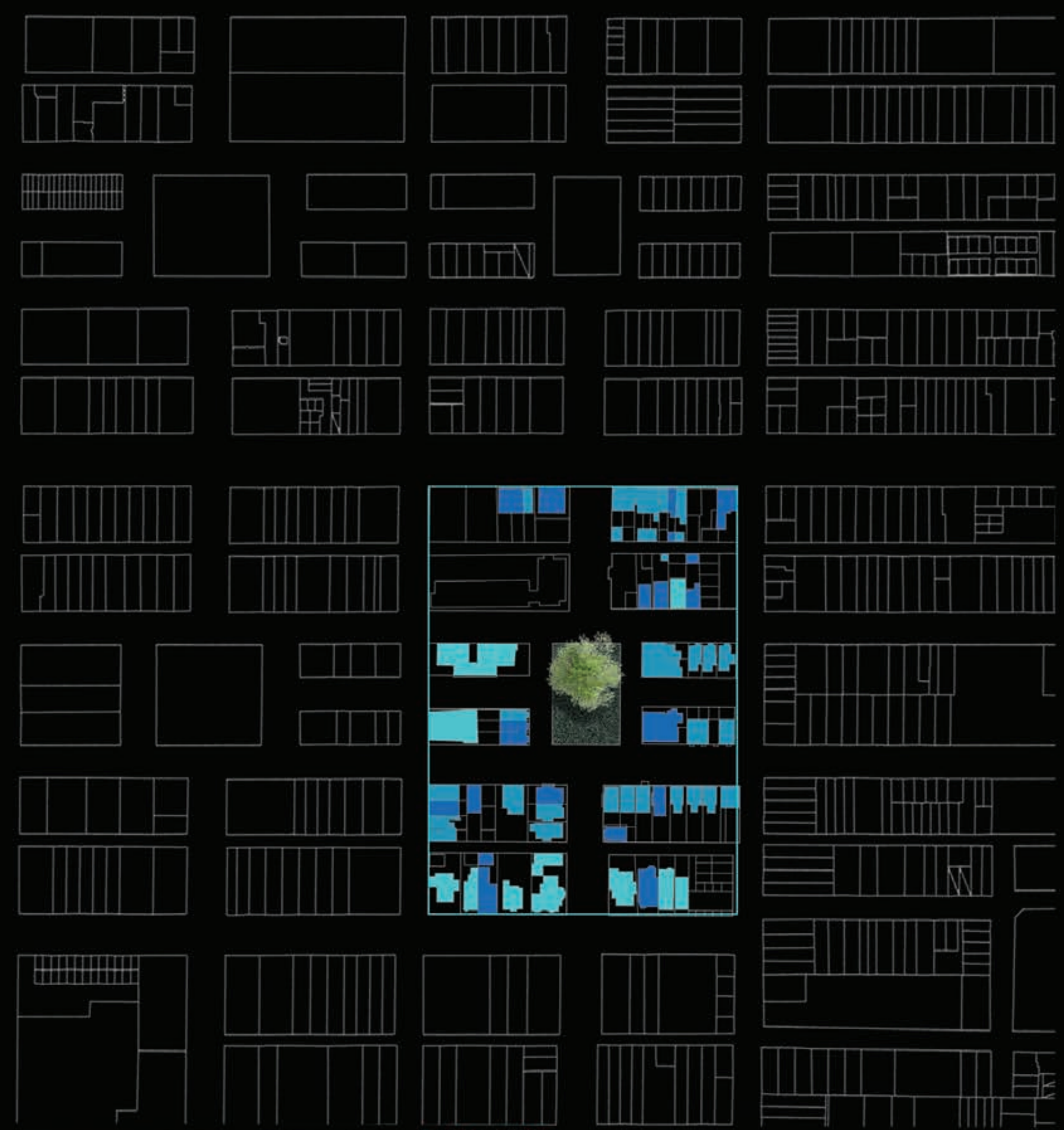


less expensive than 68.2% of Georgia neighborhoods



90 Acres

**THEN**



MEDIAN PROPERTY PRICE: **\$991,556**



More expensive than 99.5% of the Savannah neighborhood in GA



< 1 Acres

**NOW**

# SHAILEE SHAH

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