

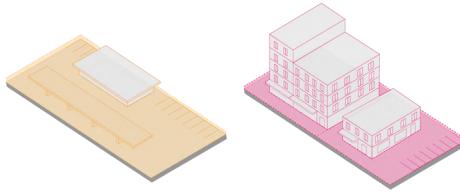
Portfolio

2025

Ki-Sang Yi
kisangyi.com
kisang.yi@columbia.edu

Urban Planning
+ GIS
+ Policy

city of yes
for housing opportunity



Woodside, QN
R5 neighborhood case study



sowing seeds
for urban agriculture in brooklyn

buyouts
for *hazard mitigation*
in new york



Home in Lenapehoking
Planning for a Continued Lenape Presence in New York

Resume

kisang.yi@columbia.edu
linkedin.com/in/kisangyi
kisangyi.com



EXPERIENCE

Research Assistant | GSAPP + NSF Center for Smart Streetscapes (CS3) 10/2023 - Present

Design and execute focus groups and community engagement programs regarding AI and surveillance technologies in mainstreet designs with Professor Anthony Vanky

Strategize and develop interactive visualizations of spatialities of minority residential vs commercial communities in Metro Detroit under supervision of Professor Anthony Vanky

Coordinated and moderated panel for GSAPP's "2023 Migrant 'Crisis' in NYC" Conference, the first organized at Columbia University, under leadership of Professor Hiba Bou Akar

Community Outreach + Podcast Director | choa magazine 06/2021 - 05/2025

Created digital content and community programming that amplify intersectional narratives from the Korean female diaspora

Collaborated with intergenerational community members to lead an oral-history walking food tour of Toronto's Old Koreatown as part of Jane's Walk 2023

Spatial Data Analyst | Center for Integrated Earth System Information (CIESIN) 06/2024 - 12/2024

Consolidated and analyzed disparate satellite, crowdsourced, and field data to map settlements for microplans of healthcare and social services delivery in Nigeria and the DRC

Maintained database and informational architecture of raw and processed data used by CIESIN, WHO, Flowminder, and WorldPop collaborators, as well as in-field service providers

Project Manager for Battery, Offshore Wind, Steel | LPR Global Inc. 05/2021 - 04/2023

Developed in-field market research and engaged with U.S. and South Korean C-suite executives, managers, and engineers to develop 7.2 million USD in sales opportunities

Generated 70% of the company's 2022 consulting revenue while maintaining 100% renewal rate of 2021 client portfolio

UX/UI Designer | Digital Main Street (FutureProof Ontario) 08/2020 - 05/2021

Designed and user-tested personas, website designs, interaction flows for Toronto's local businesses, as incorporated into new website of the CNE, Canada's largest fair

EDUCATION

Columbia University, GSAPP

M.S. in Urban Planning

University of Toronto

B.S. Honors in Global Health + Ethics, Society & Law

SKILLS

Cartography

ArcGIS Pro

QGIS

Mapbox

Design

Adobe Suite

MS Office Suite

Google Suite

Wordpress

Squarespace

Data Analysis

Python

R Studio

HTML

JavaScript

AWARDS

New York Chapter of the American Planning Association's Award

William Kinne Fellows Traveling Prize

GSAPP Merit Scholarship

Korean American Scholarship Foundation

LPR Global Scholar

Larry Chapman Award

Korean Canadian Bursary Award

The President's Scholar of Excellence

City of Yes for Housing Opportunity in Woodside, QN

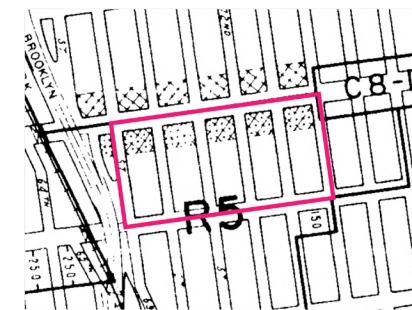
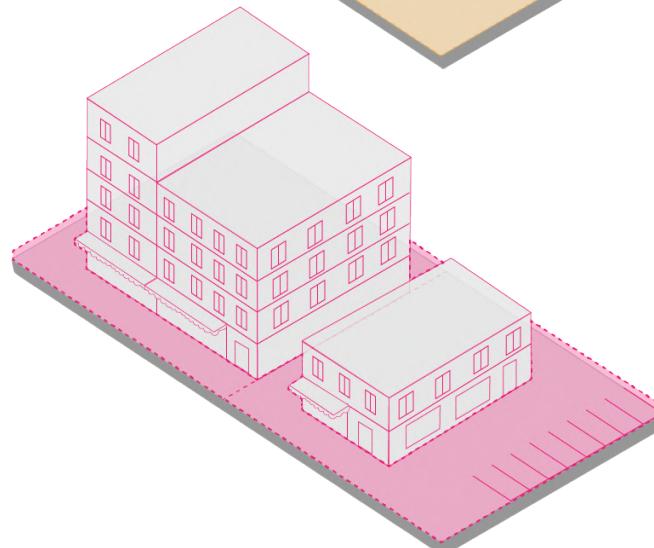
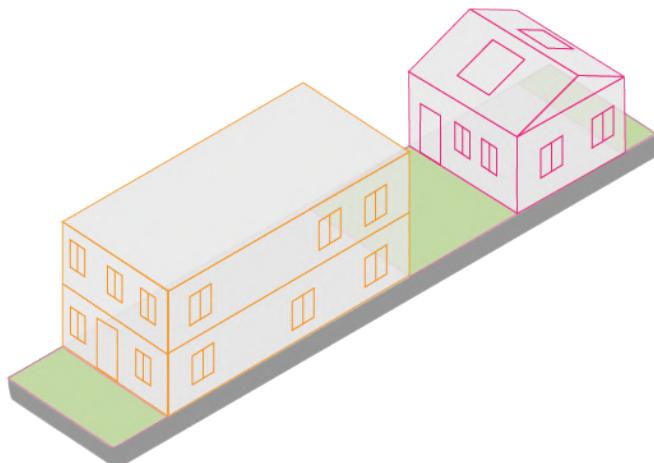
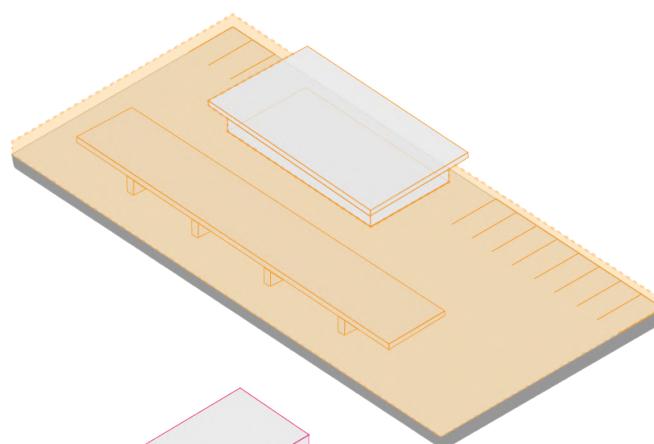
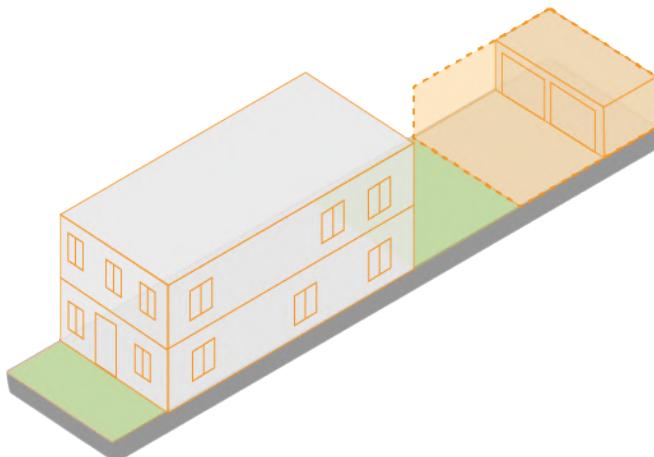
Categories:

Urban Planning
Housing Affordability
Zoning Analysis

Tools:

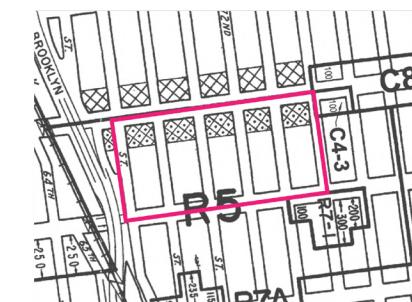
Policy Analysis
Zoning Analysis
Adobe Creative Suite

Advisors: NYC DCP, SOM



1961 Zoning Districts: R5 + C2-2

Preserve existing single-family housing through exclusive land use and require car-oriented built environment (i.e.: parking)



2024 Zoning Districts: R5 + C2-2

Incentivize more housing development in transit centers so that more people can live in accessible neighborhoods, even without cars.

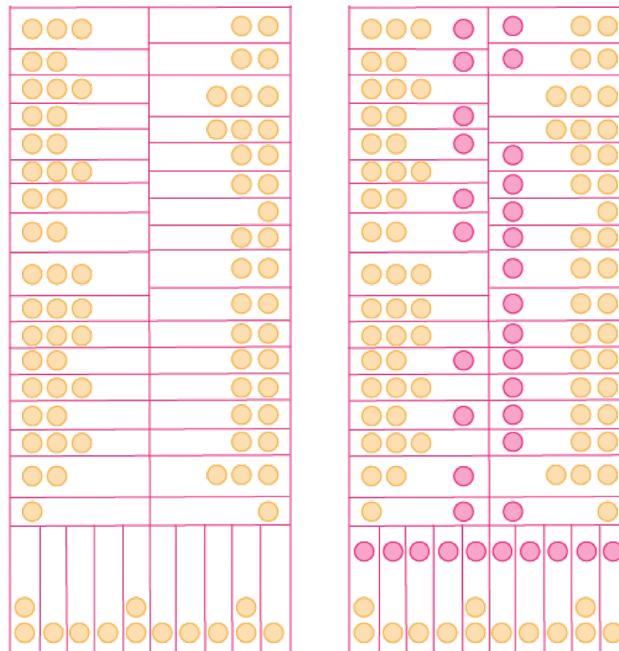
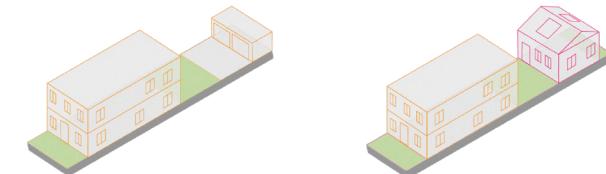
City of Yes in Woodside, QN



In light of systematic amendments to City of Yes 2024, this project is a visual exploration of how low-density neighborhoods may be transformed into transit-accessible, affordable, and mixed-use town centers.

Categories:
Urban Planning
Housing Affordability
Zoning Analysis

Tools:
Policy Analysis
Zoning Analysis
Adobe Creative Suite



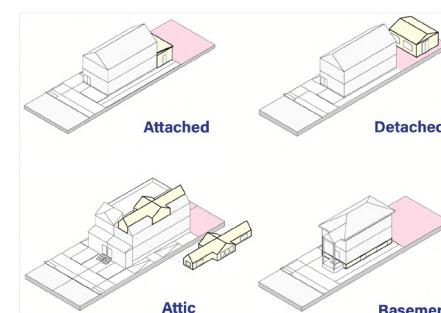
2024 Town Center Residential Block

- Orange circle: Existing residential unit
- Pink circle: Hypothetical ADU

Adding one ADU per lot can create up to **34 new residential units** without displacing existing residents.

34 units represents a **40% increase in housing stock** on this single block.

Residents who want to add an ADU without losing their parking spot can opt for an attached, attc, or basement ADU.

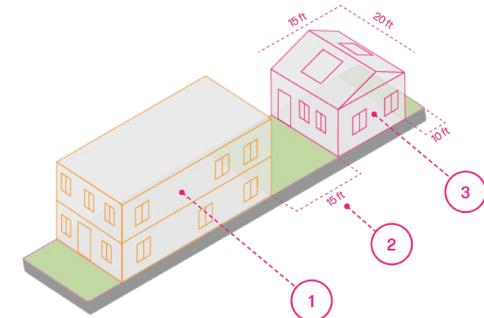


NYC DCP (2024), "City of Yes for Housing Opportunity."

1961 Zoning Resolution
20' x 100' lot
0.90 FAR
50% site coverage



2024 Rezoning (Moderate)
20' x 100' lot
0.90 FAR of max. 1.50
50% site coverage of max. 80%

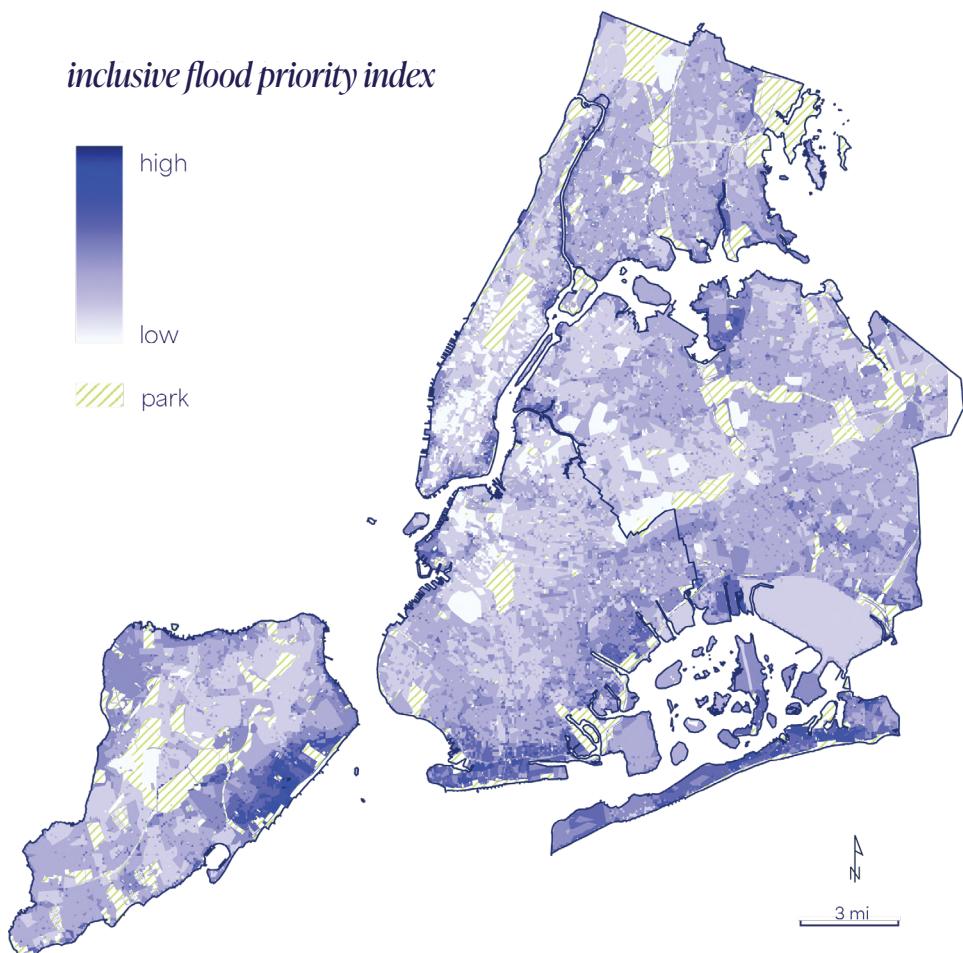


Buyouts for Hazard Mitigation in New York

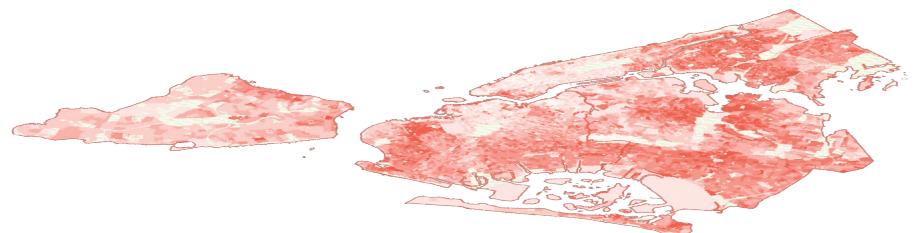
Categories:
GIS
Site Selection
Climate Resilience

Tools:
ArcGIS
Python
Policy Analysis
Adobe Creative Suite

inclusive flood priority index



coastal + inland flood risk



social vulnerability to flood hazards



existing policy interventions

Buyouts for Mitigation

This cartographic project focuses on the spatial distribution of flooding-related risk and mitigation policies. By incorporating overlooked variables in NYC's Flood Vulnerability Index, this analysis identifies sites where education, planning, and planning acquisition policies should be priorities for more equitable and long-term climate resilience.

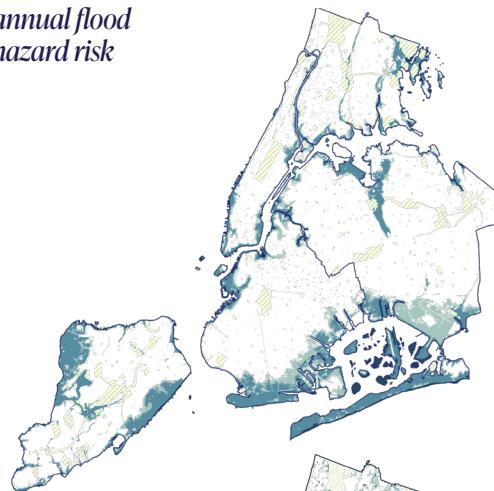
Categories:

GIS
Site Selection
Climate Resilience

Tools:

ArcGIS
Python
Policy Analysis
Adobe Creative Suite

annual flood hazard risk

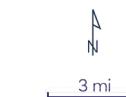
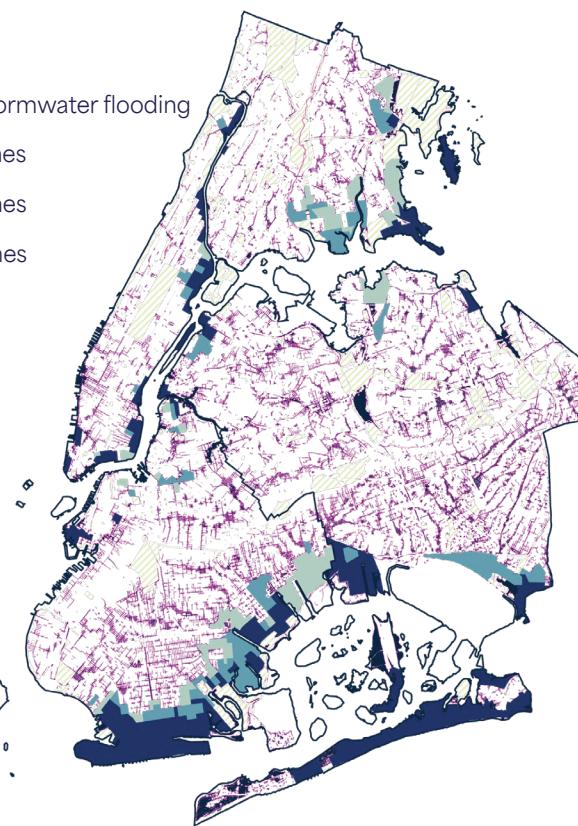
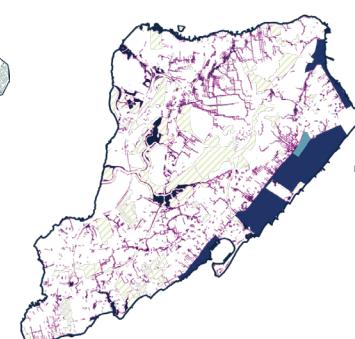


inland stormwater risk



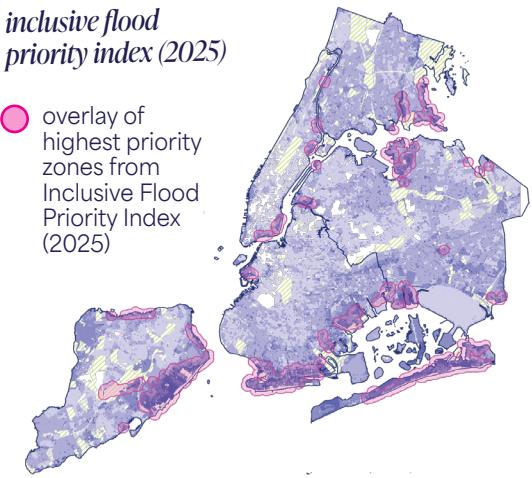
unaccounted flooding in FVI high risk zones

- unaccounted inland stormwater flooding
- FVI 2020s high risk zones
- FVI 2050s high risk zones
- FVI 2080s high risk zones
- park

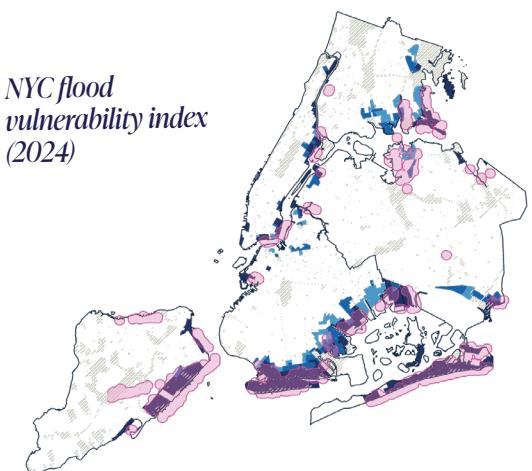


inclusive flood priority index (2025)

- overlay of highest priority zones from Inclusive Flood Priority Index (2025)



NYC flood vulnerability index (2024)



smile! you're on camera: stories from the bronx bodega

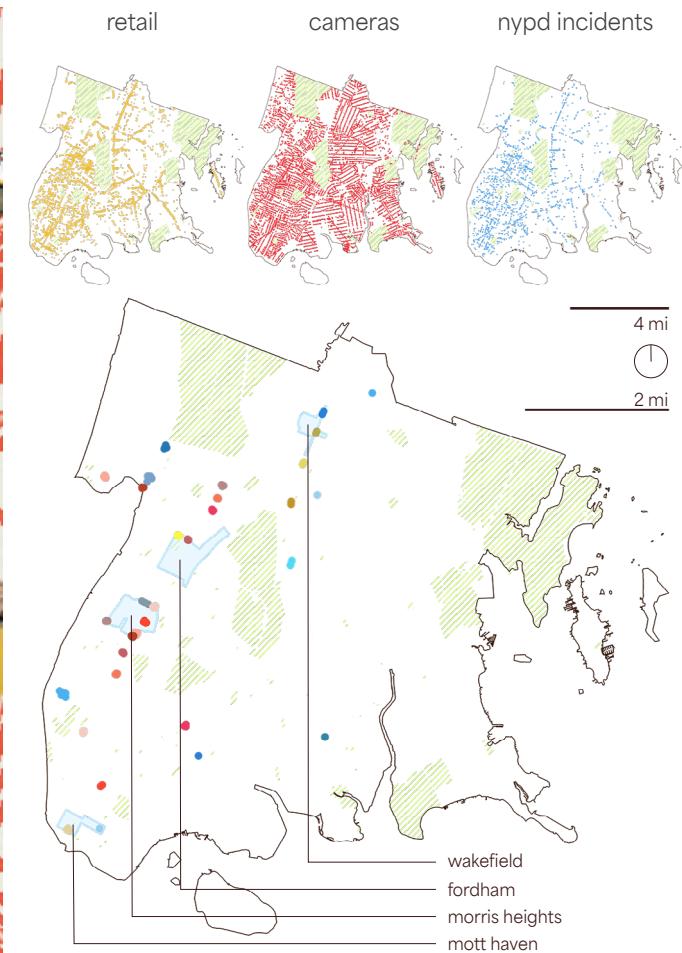
Categories:

Community Engagement
Technological Innovation
Public-Private Partnerships

Tools:

Literature Review
Policy Analysis
Stakeholder Interviews
Adobe Creative Suite

Consulted Parties: NY House Rep, EFF, NYCLU, Third Ave BID, Fordham Road BID, Bodega and Small Business Association



smile! you're on camera

In light of increasing political and financial support for bodegas' use of facial recognition cameras and panic buttons, this thesis project amplifies community members' lived experiences of surveillance, law enforcement, and community investments to pose a grounded challenge to the expansion of NYC's surveillance infrastructures.

Categories:

Community Engagement
Technological Innovation
Public-Private Partnerships

Tools:

Literature Review
Policy Analysis
Stakeholder Interviews
Adobe Creative Suite



Black New Yorkers Are Twice as Likely to Be Stopped by the Police, Data Shows

A report shows Black neighborhoods have been more heavily patrolled, but police officials have been driven by 311 and 311 calls.



Sowing Seeds For Urban Agriculture in Brooklyn

Categories:

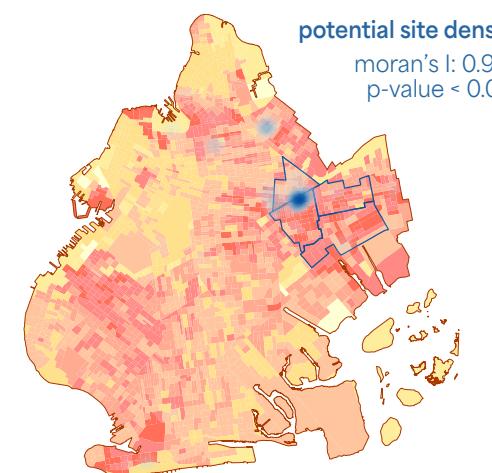
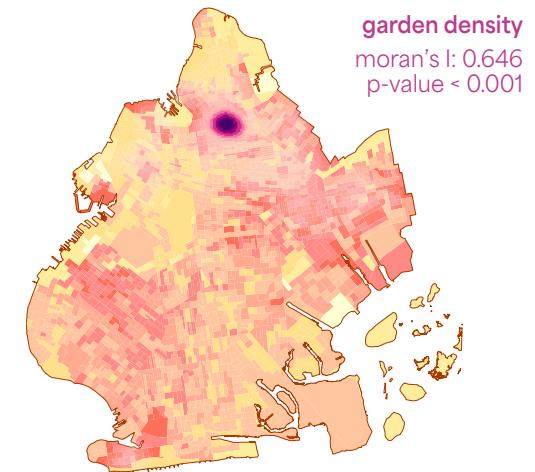
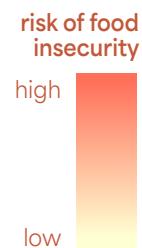
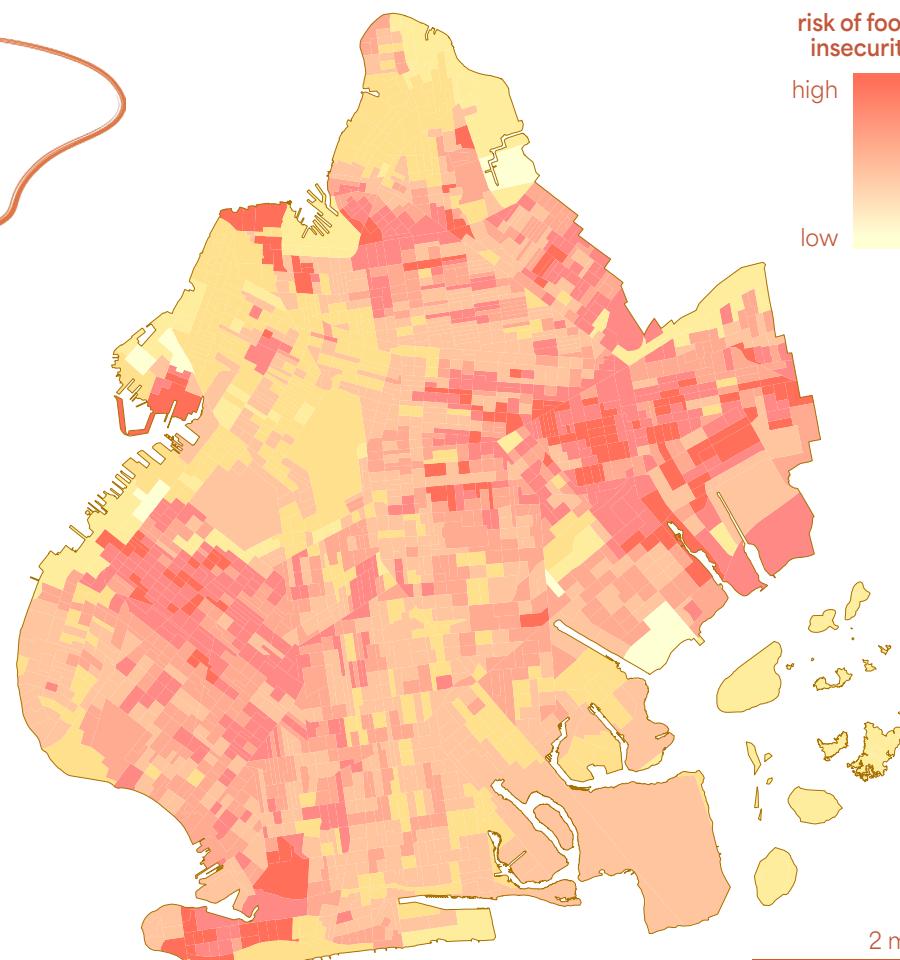
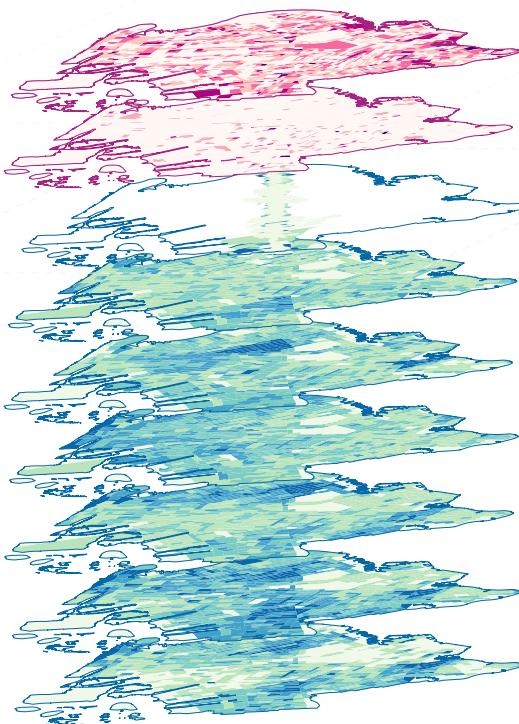
GIS
Site Selection
Urban Planning
Community Development

Tools:

ArcGIS
Policy Analysis
Case Studies
Expert Interviews
Adobe Creative Suite

Consulted Party: East New York Farms

Where should the NYC Mayor's Office of Urban Agriculture support projects for both need and viability in Brooklyn?



Sowing Seeds for Urban Ag.

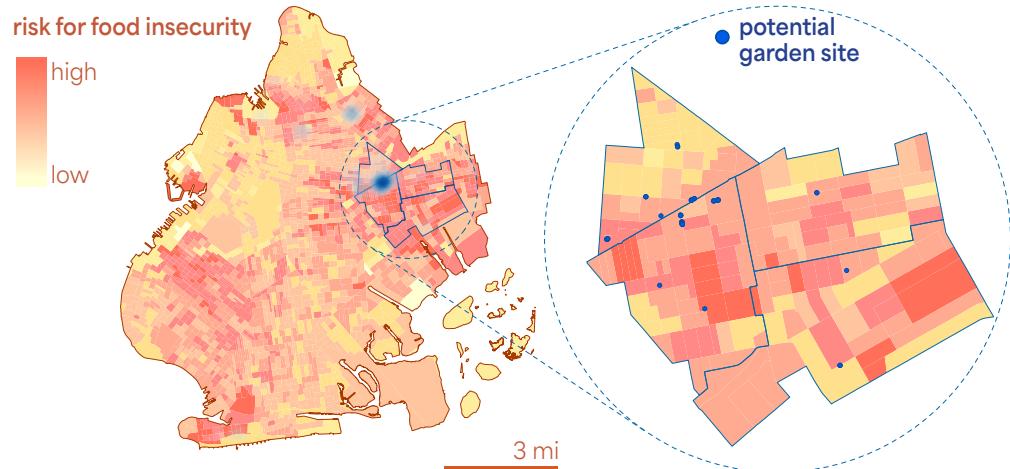
This site analysis uses mixed methods to explore the suitability of Brooklyn's existing urban agriculture site. It further identifies high-potential sites for future urban agriculture initiatives under the NYC Mayor's Office of Urban Agriculture. In doing so, this project seeks to support community-led food sovereignty in Brooklyn.

Categories:

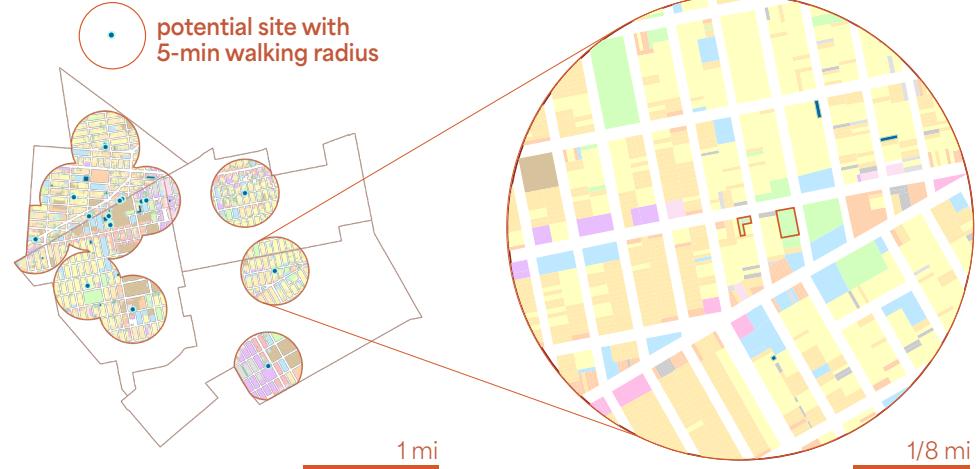
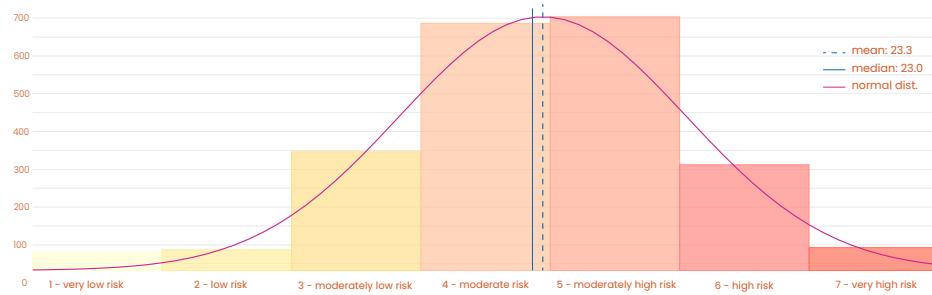
GIS
Site Selection
Urban Planning
Community Development

Tools:

ArcGIS
Policy Analysis
Case Studies
Expert Interviews
Adobe Creative Suite



distribution of food insecurity risk in brooklyn



sol bacio

assistant program director, east new york farms garden



Sol identified ownership to land is the biggest issue for urban agriculture initiatives in East New York, citing private and public development of their leased farms as ongoing threats.

What can access to land for urban agriculture look like in New York City?

In addition to an existing urban farm in East New York, three potential sites were identified for future gardens. If all three lots were turned into urban gardens, they would increase percent garden coverage in this area by 34.6% and expand the neighborhood's garden network.

Organized Displacement: A Policing Legacy in Oakland

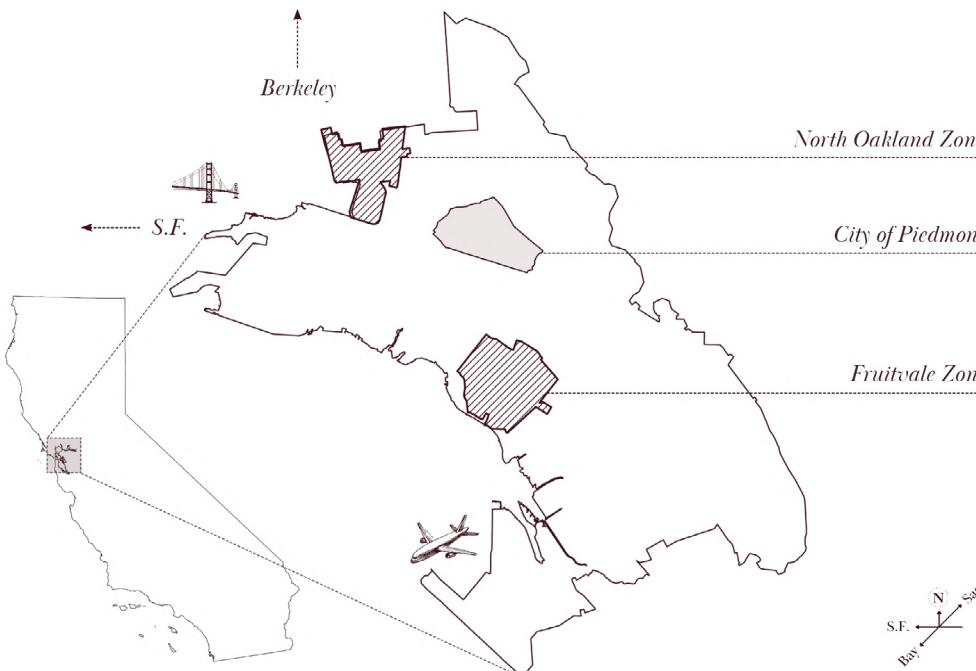
Categories:

GIS
Urban Planning
Community Development
Placemaking

Tools:

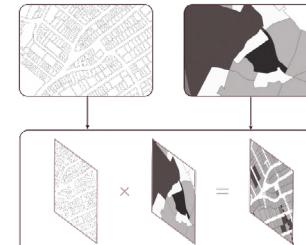
ArcGIS
Python
Policy Analysis
Adobe Creative Suite

What are the spatial legacies of Oakland, California's 2010-2015 gang injunction zones measured through distributions of police activity and Black youth populations in 2015 versus 2020?

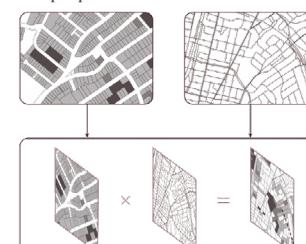


Estimating Population Density by Block

residential units per parcel estimated population by census tract



estimated population per parcel block level boundaries



estimated population by block



Organized Displacement

This advanced spatial analysis focuses on Oakland's two gang injunction zones, implemented in 2010 and 2012, and repealed in 2015. This confined period of activity allows for measurements of changing spatial relationships and concentrations between police activity and population demographics over time, referred to here as "spatial legacies".

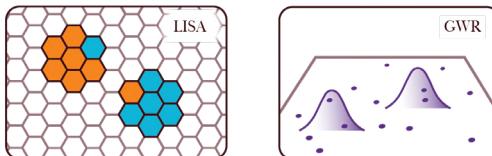
Categories:

GIS
Urban Planning
Community Development
Placemaking

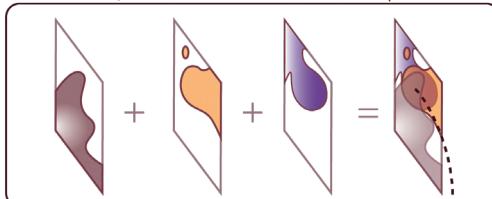
Tools:
ArcGIS
Python
Policy Analysis
Adobe Creative Suite



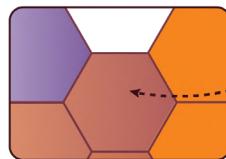
Spatial Statistics



Spatial Overlay



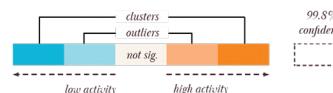
Block Vignettes



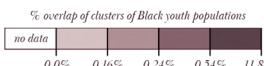
Black Youth Population Density



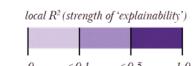
Local Moran's I (LISA)



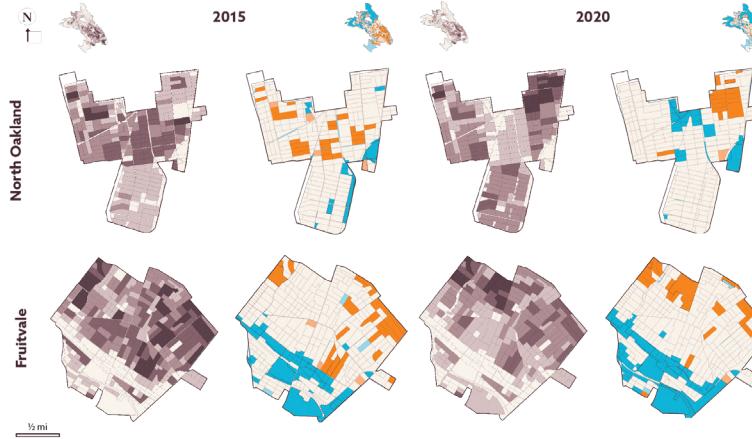
LISA Comparison Matrix



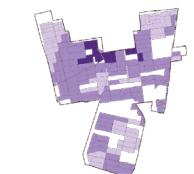
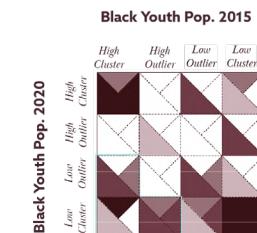
Geographically Weighted Regression (GWR)



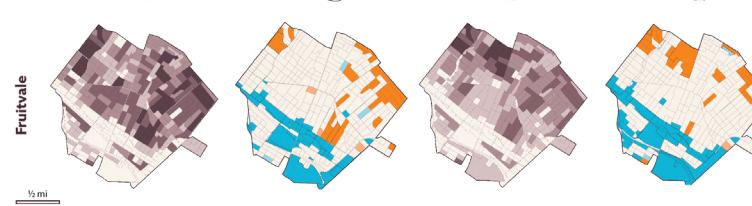
North Oakland



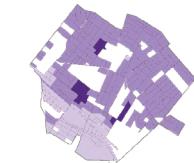
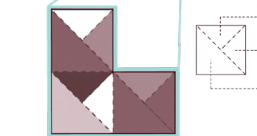
Black Youth Pop. 2020



Fruitvale



North Oakland



Planning for Home in Lenapehoking

Categories:

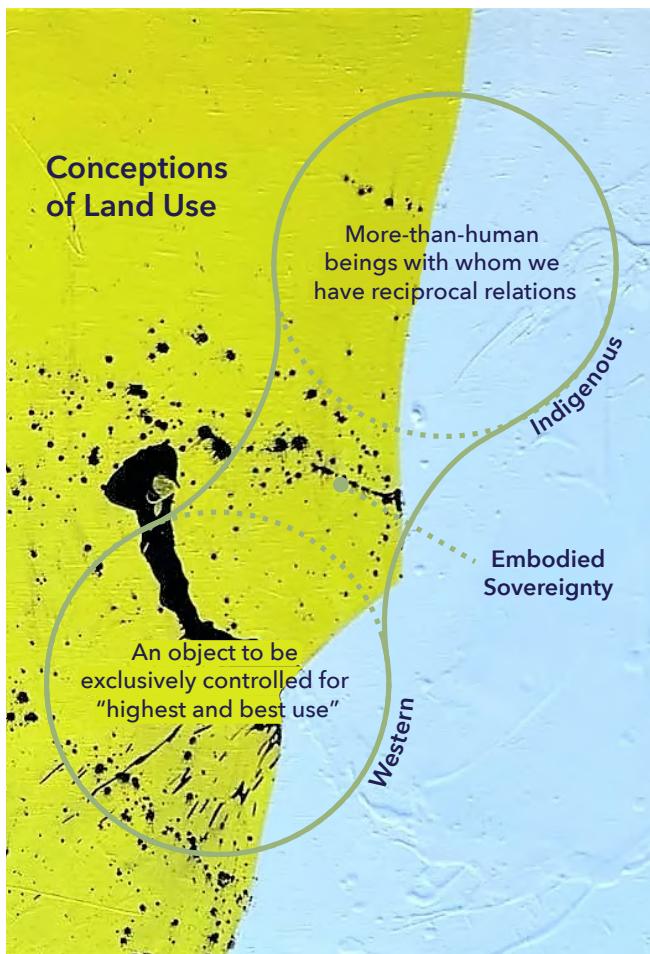
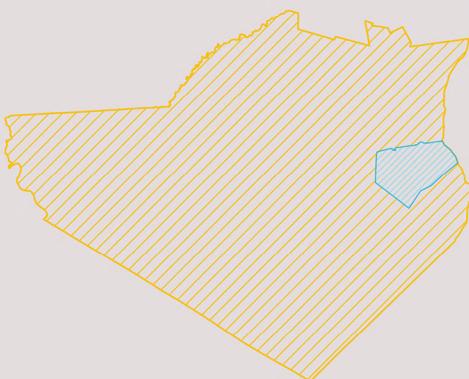
Community Development
Site Planning
Group Studio

Tools:

Case Studies
Land Use Planning
Policy & Literature Review
Adobe Creative Suite

Client: Lenape Center

Orange County	Cornwall
\$401,310	\$12,884
\$89,037	\$112,951
Over 4,000 Indigenous people in Orange County	Only 37 Indigenous people live in Cornwall
25.3% Under 18	21.5%
14.7% Over 65	18.3%
77.6% White	85.2%
14.8% Black	3.1%
23.7% Hispanic/Latino	12.8%
0.1% Indigenous	0.0%
12.2% Foreign Born	5.5%



The distribution of site development on the 12 acres spans 13,000 SF

Public Programming (6.6k SF)

Green House
Maker Space
Studio Auditorium
Exhibition/Library

Operations (3k SF)

Kitchenette
Communal Space
Boarding for 12 guests

Residential (2.5k SF)

Administration (800 SF)

Home in Lenapehoking

This studio worked with the Lenape Center, a non-profit organization, to plan a cultural center for Lenape diaspora in their ancestral home of Lenapehoking in present-day Northeast U.S.A. Working closely with the client, the studio strove towards decolonizing western planning practices while meeting the practical needs of the Center.

Categories:

Community Development
Site Planning
Group Studio

Tools:

Case Studies
Land Use Planning
Policy & Literature Review
Adobe Creative Suite

