



NYC Mayor's Office of Climate &
Environmental Justice



Climate Strong Communities

CORONA
PUBLIC WORKSHOP #2
15 March 2024



one architecture



climate adaptation partners

Jacobs

MATRIX**NEW**WORLD

Agenda

- 1 **INTRODUCTION & CONTEXT**
30 MIN
- 2 **Q+A**
20 MIN
- 3 **CLIMATE ADAPTATION
FRAMEWORK**
60 MIN
- 4 **CONCLUSION & NEXT STEPS**
10 MIN



Climate Strong Communities

Introduction & Context

“Climate-Strong Communities, a new citywide climate strategy, will boost resiliency throughout the five boroughs especially in high need areas that face deeper impacts as a result of climate change. Equity and environmental justice are essential to our climate strategy. For far too long communities have been left behind based on their zip codes and economics. Climate-Strong Community initiative will lead to model projects that protect these neighborhoods and can be replicated across the entire five boroughs.”

Mayor Eric Adams

Hurricane Sandy 10th
Anniversary Remembrance



Climate Strong Communities Program Summary

Climate Strong Communities (CSC) will launch the next generation of equitable, multi-hazard, resiliency and sustainability projects.

- Develop a community-centered planning process by proactively engaging with stakeholders
- Maximize federal and state funding opportunities
- Invest in communities left unaddressed by limited Hurricane Sandy recovery funding
- Leverage existing resiliency and sustainability planning and capital commitments

Climate Strong Communities Year 1 Neighborhoods

Phase I Neighborhoods

Rainfall Flooding (2080s Extreme Flood)

- 10% Annual Chance Storm Nuisance (4 in - 1 ft)
- 10% Annual Chance Storm Deep/ Contiguous (>1 ft)
- 1% Annual Chance Storm Combined with 4.8 ft SLR

Coastal Surge Flooding (2080s Future Floodplain)

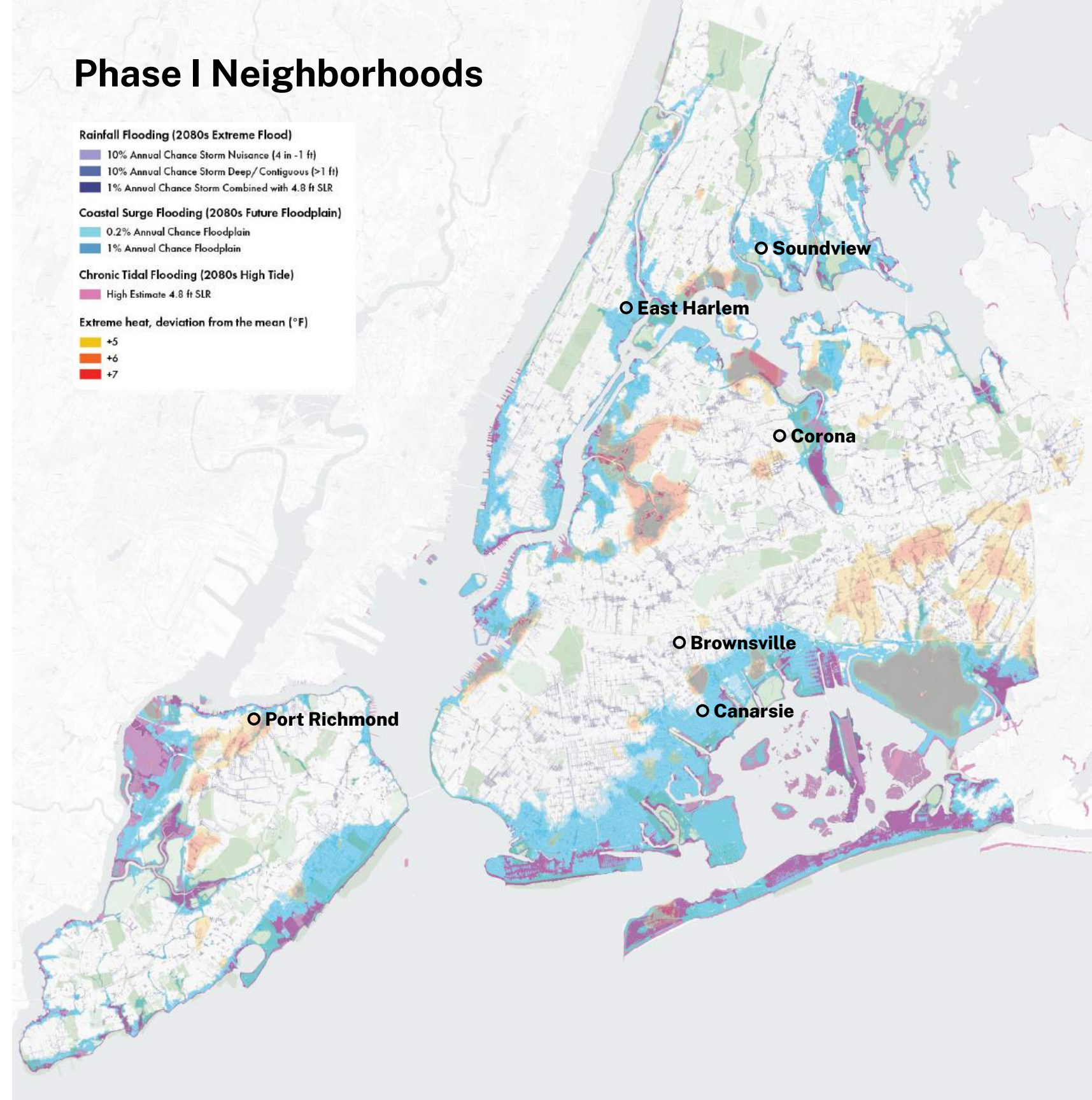
- 0.2% Annual Chance Floodplain
- 1% Annual Chance Floodplain

Chronic Tidal Flooding (2080s High Tide)

- High Estimate 4.8 ft SLR

Extreme heat, deviation from the mean (°F)

- +5
- +6
- +7



Climate Hazards



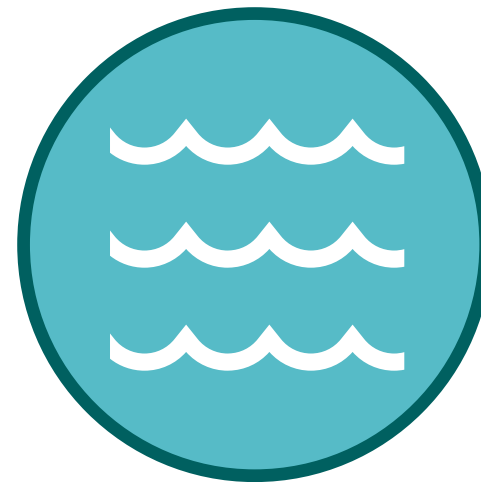
EXTREME HEAT

PROJECTED 4X MORE HEAT WAVES
BY THE 2080s



EXTREME RAINFALL

UP TO 22% MORE PRECIPITATION
BY THE 2080s



CHRONIC TIDAL FLOODING

UP TO 3.75 FEET OF SEA LEVEL RISE BY THE 2080s



COASTAL SURGE FLOODING

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Climate Strong Communities

Introduction & Context



Fall 2023 Engagement Findings

Public Engagement Schedule

1. Understanding Climate Risk

Fall 2023

Neighborhood Support Team (NST) Meeting #1

Site Walk

Public Workshop #1

2. Introducing Potential Projects

Winter 2024

Neighborhood Support Team (NST) Meeting #2

Public Workshop #2

- Open to general public
- Discuss potential project typologies for future funding opportunities

3. Prioritizing Potential Projects

Spring 2024

Neighborhood Support Team (NST) Meeting #3

- Virtual, NSTs and Community Partners in all CSC neighborhoods
- Discuss projects to prioritize for future funding opportunities

Virtual Summit

- Open to general public in all CSC neighborhoods
- Discuss CSC experience, next steps, and long term involvement

What We Heard

Theme: Neighborhood Institutions + Social Cohesion

- Public schools
- Importance of public spaces
- Street vendors



What We Heard

Theme: Community Isolation

- Emergency messaging
- Access to recovery resources
- Basement apartments
- Language accessibility



What We Heard

Theme: Green Infrastructure

- Rain garden and street tree maintenance
- Community awareness and ownership

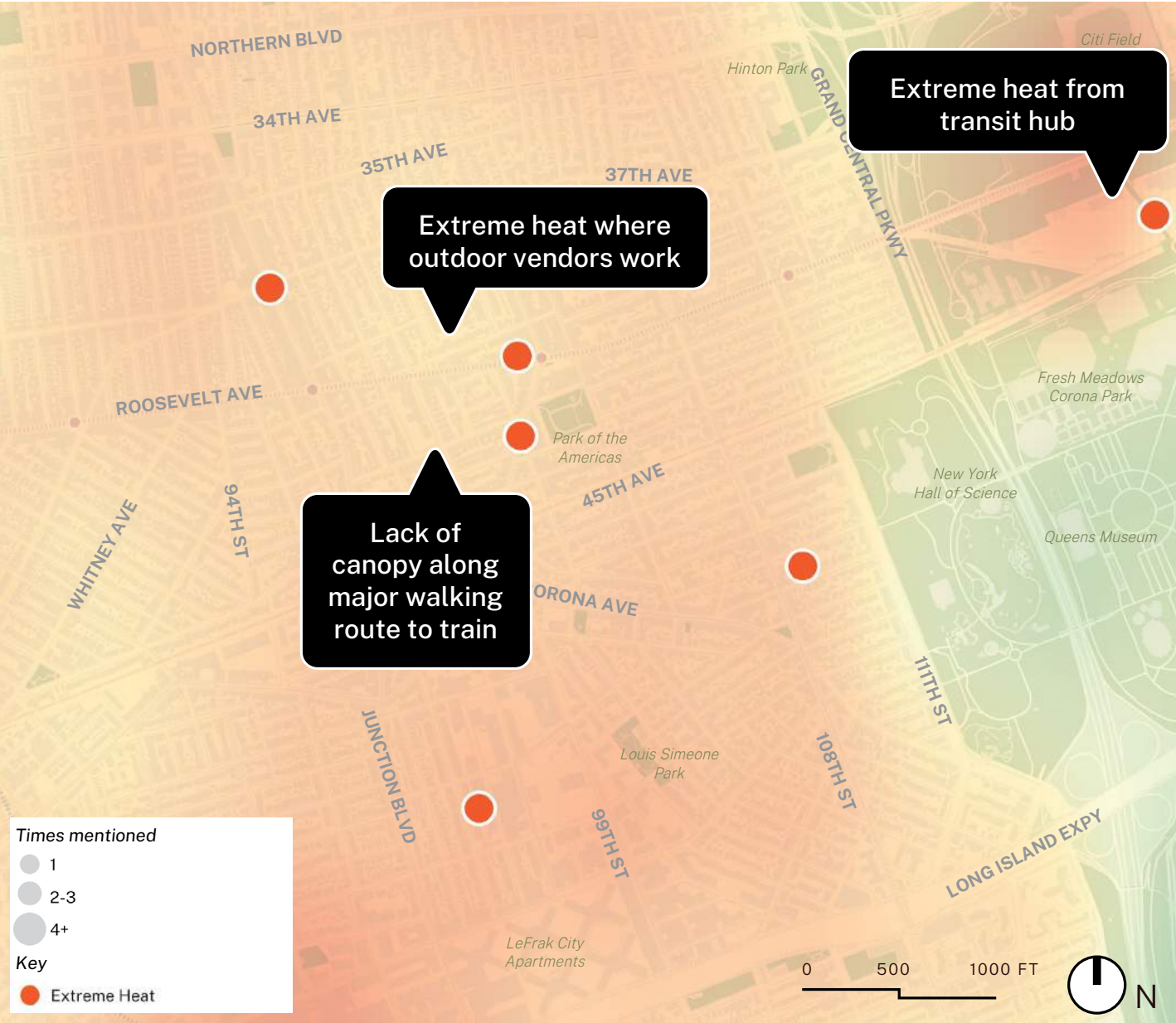


Community Assets

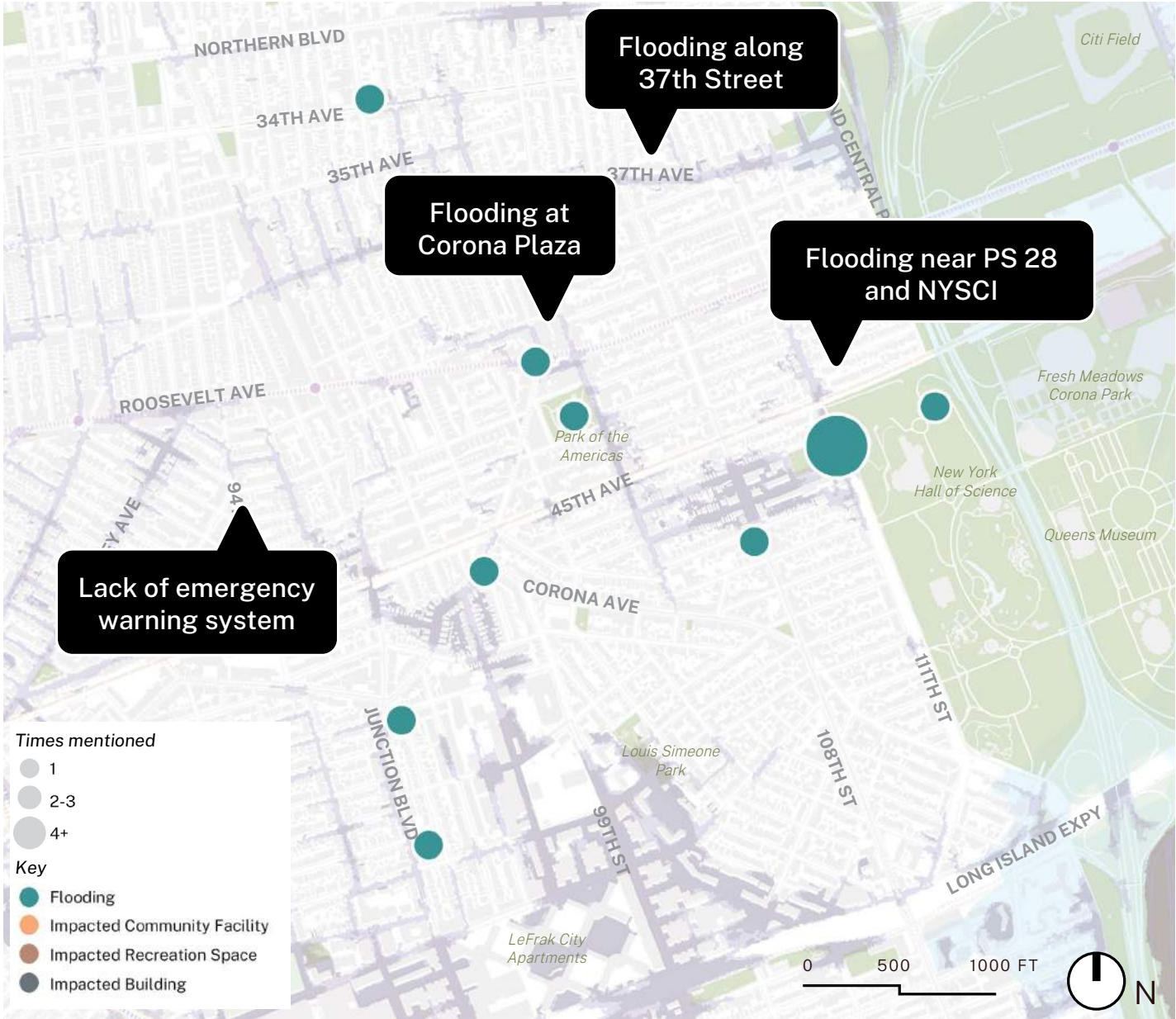



Climate Threats

Urban Heat Discussion Map



Stormwater Flooding Discussion Map

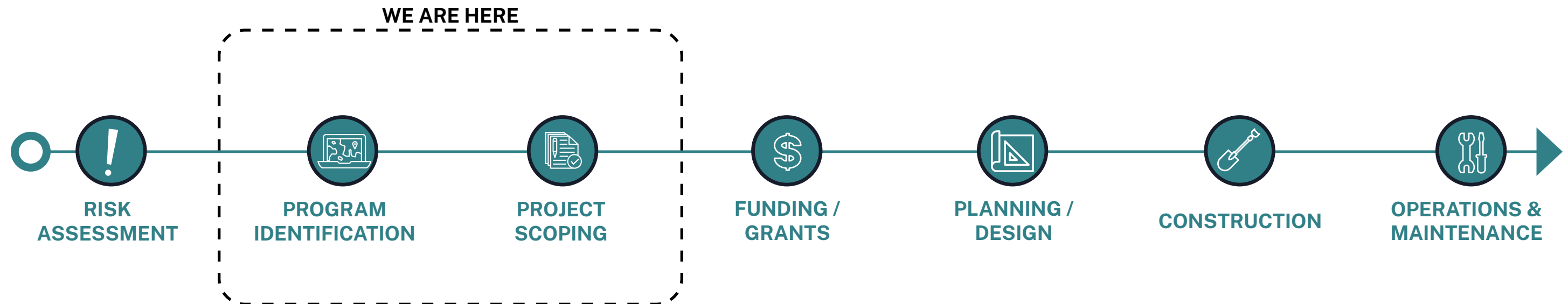




Climate Adaptation Framework

Life Cycle of a CSC Project

CSC is working with communities to understand their climate threats, planning context, and current priorities in order to identify, scope, and fund resilience infrastructure projects.



Place Types

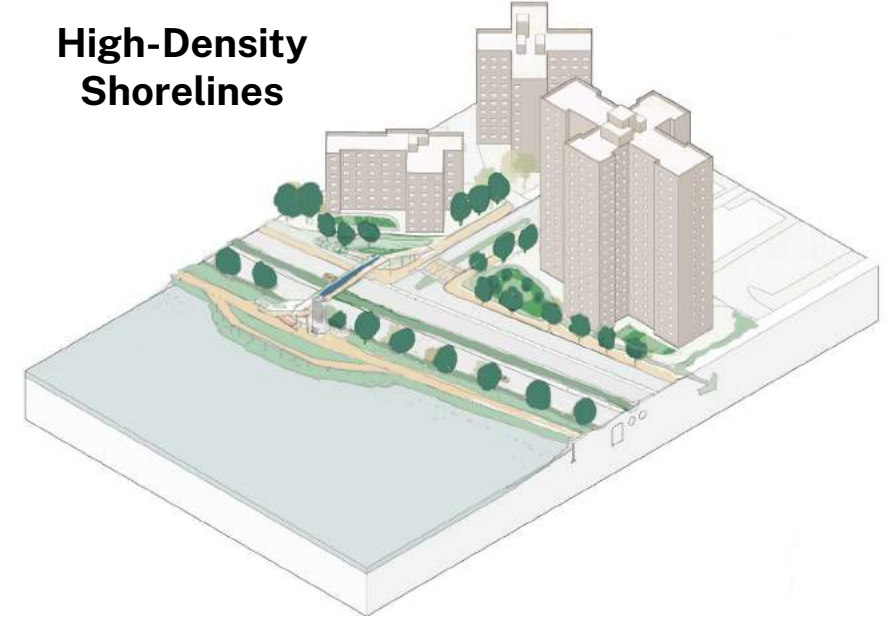
**Public Facilities
+ Playing Fields**



**Parks +
Nature Areas**



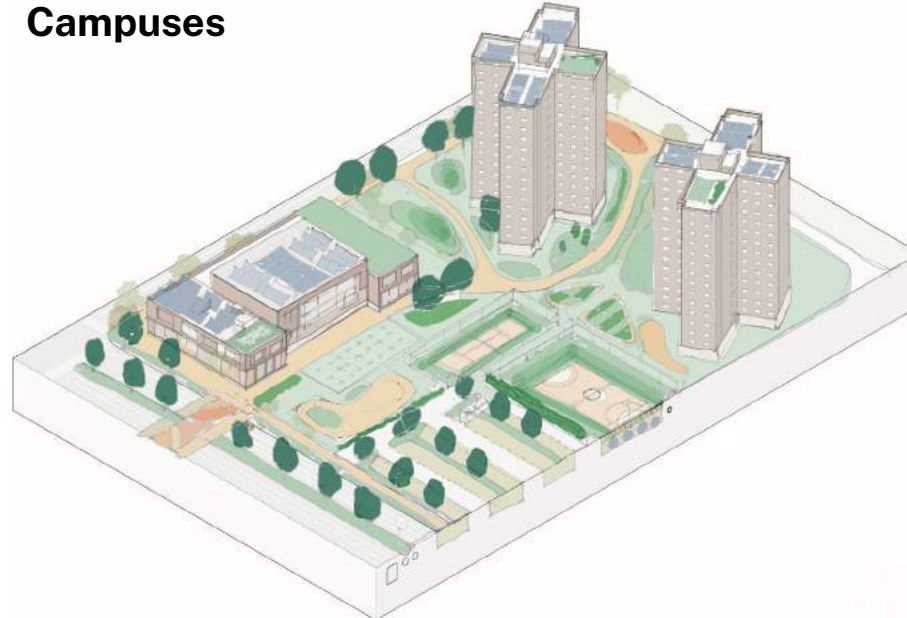
**High-Density
Shorelines**



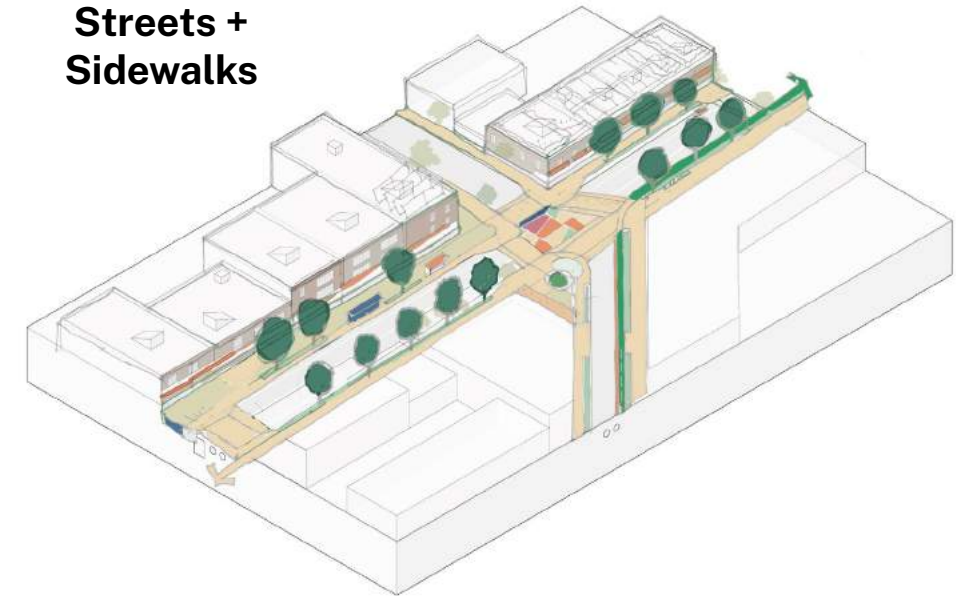
**Homes, Yards
+ Parking Lots**



Campuses



**Streets +
Sidewalks**



Programs



Cool Corridors



Bluebelts



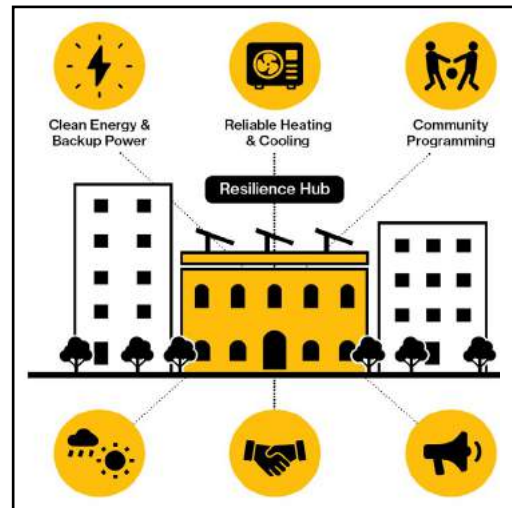
Urban Forestry



Resilient Playgrounds



Resilient Grids



Resilience Hubs



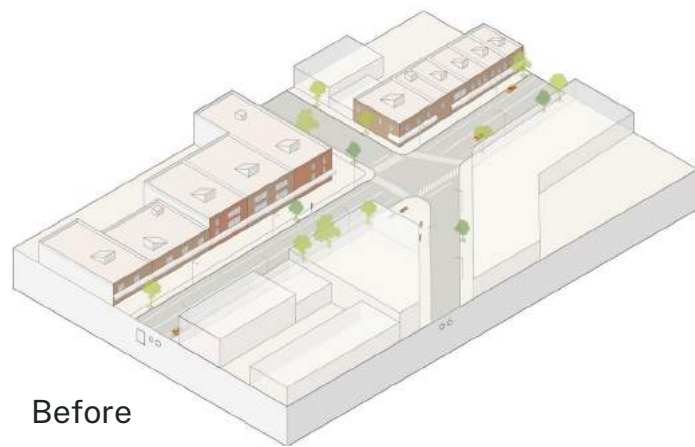
Urban Agriculture



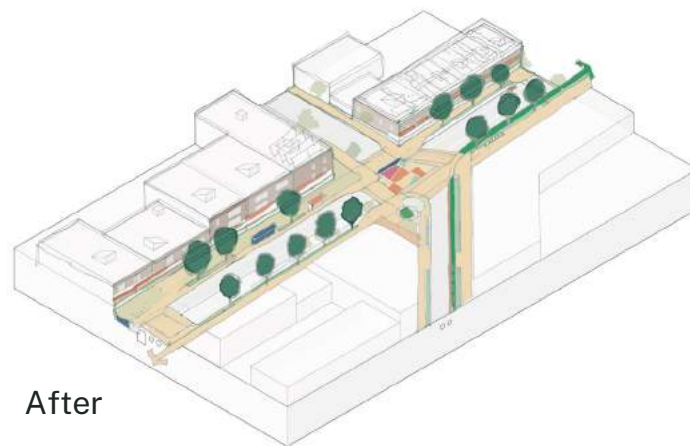
Cloudburst

Cool Corridors

→ Right of way and area plans with strategies to mitigate extreme heat



Before



After

Place type: Streets + Sidewalks

Typical implementation timeline: 3-5 years



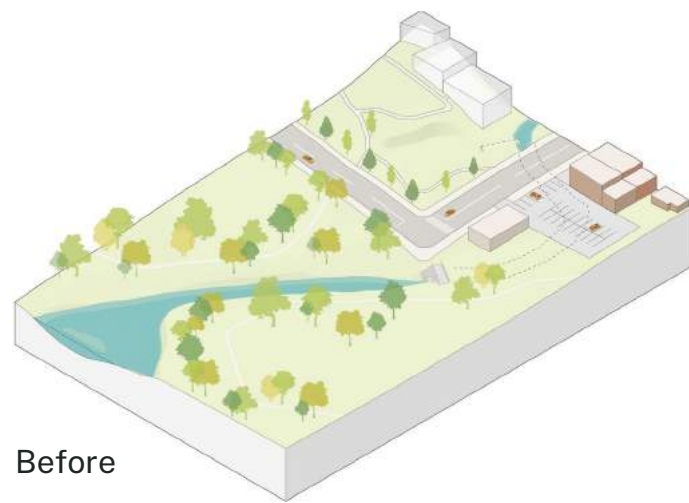
Forest Hills, Queens

Place type: Streets + Sidewalks

Bluebelts



- Preservation and creation of natural drainage corridors, right of way stormwater conveyance projects, and daylighting of buried watercourses



Place type: Parks and Nature Areas

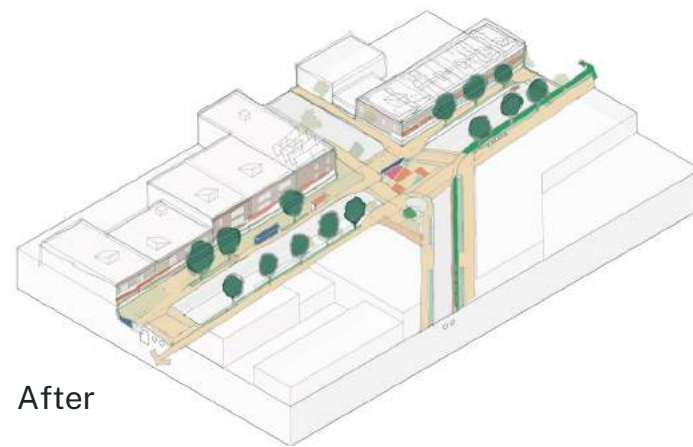
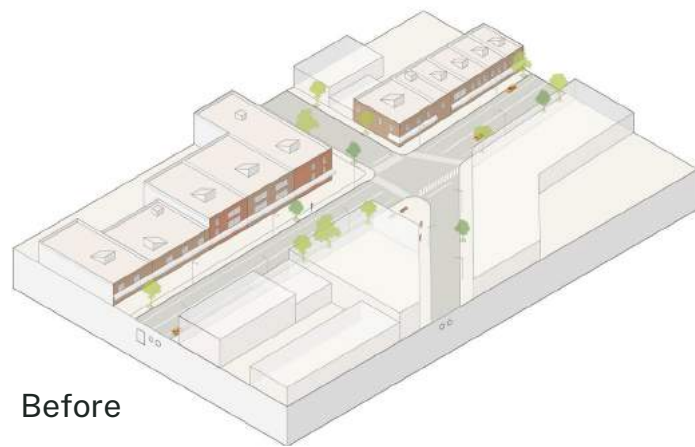
Typical implementation timeline: 5+ years



New Creek Bluebelt, Staten Island

Urban Forestry

→ Monitoring, maintenance, and expansion of tree planting in connection with PlaNYC goal to achieve 30% tree canopy cover citywide



Before

After

Place type: Streets + Sidewalks

Typical implementation timeline: 1-3 years



EXTREME RAINFALL



EXTREME HEAT



Jackson Heights Beautification Group, Queens

Resilient Playgrounds

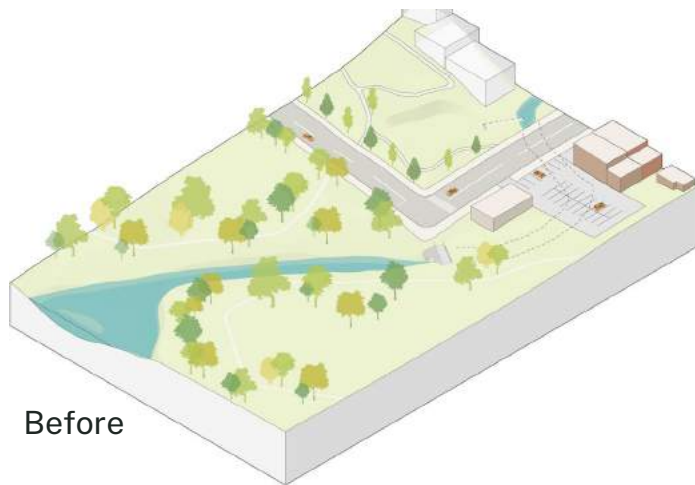


EXTREME RAINFALL



EXTREME HEAT

→ Multibenefit play areas that provide shade, mitigate extreme heat, and help manage flooding from extreme rain events



Before



After

Place type: Parks + Nature Areas

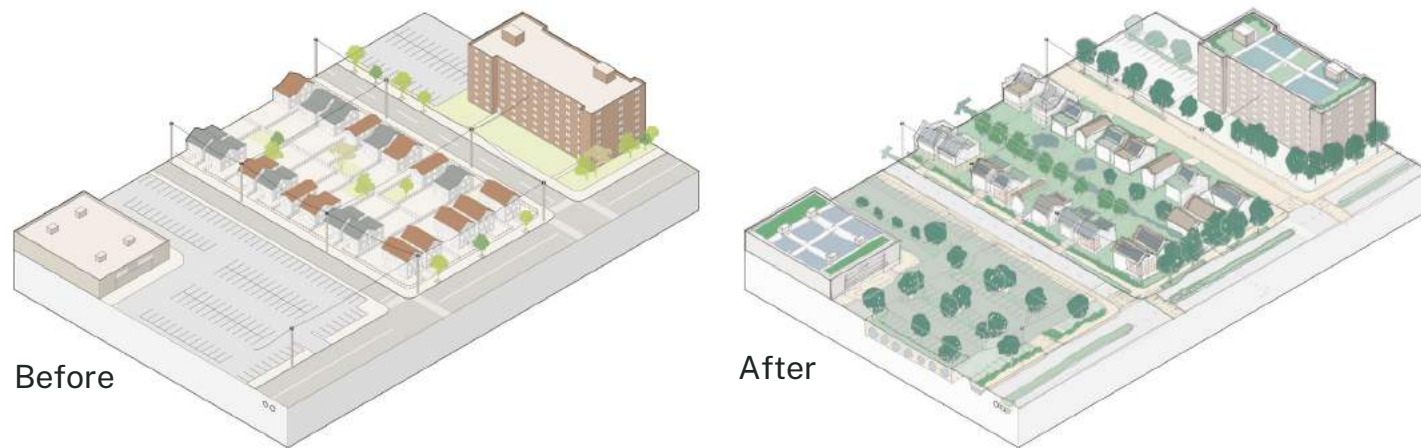
Typical implementation timeline: 3-5 years



Trust for Public Land Community Schoolyard Initiative, PS 184M, Manhattan

Resilient Grids

- Improve grid resiliency to maintain the power supply during high electricity demand events like heat waves and recover from unexpected equipment failure or damaging climate events such as hurricanes.



Place type: Homes, Yards + Parking Lots

Typical implementation timeline: 3-5 years



COASTAL SURGE FLOODING



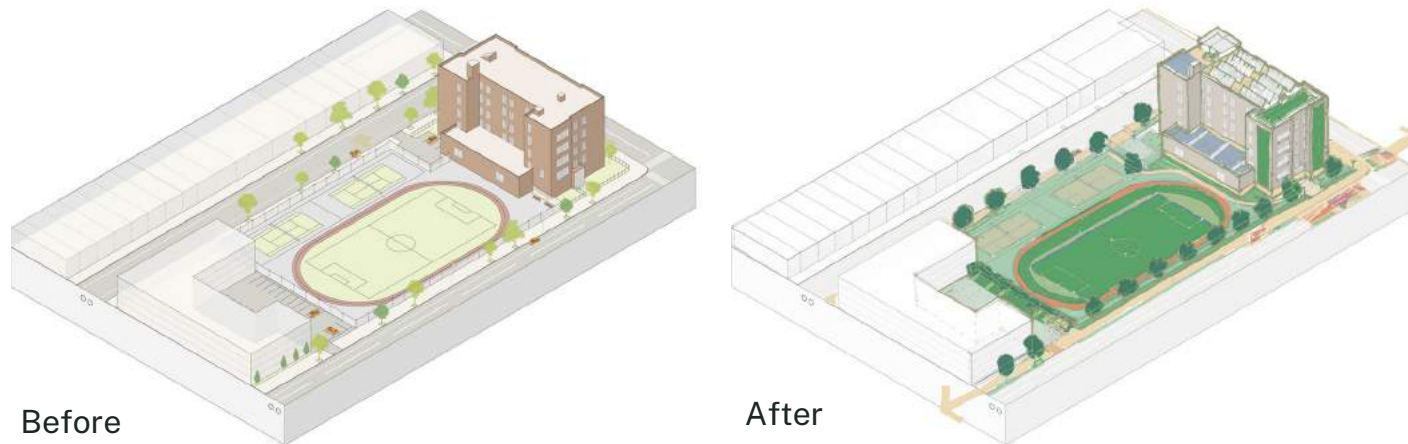
EXTREME HEAT



Solar installation at NYCHA Queensbridge Houses

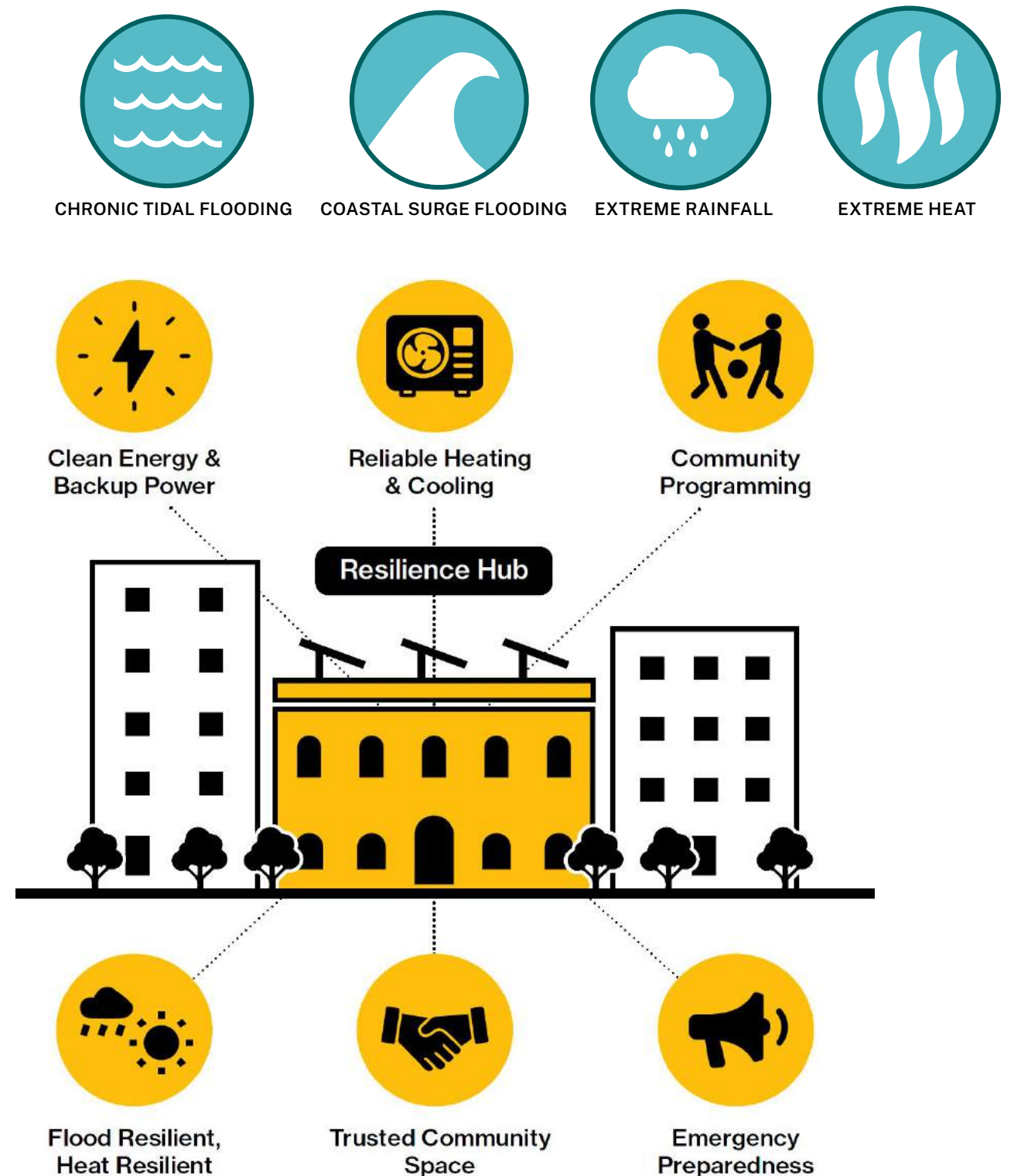
Resilience Hubs

→ Existing community spaces protected from climate-induced hazards such as flooding, extreme heat, and power outages.



Place type: Public Facilities + Playing Fields

Typical implementation timeline: 3-5 years



Resilience Hub, PlaNYC 2023

Urban Agriculture

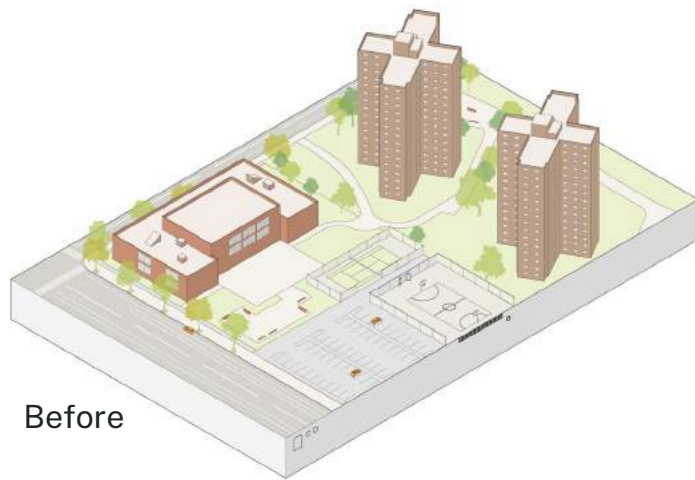


EXTREME RAINFALL



EXTREME HEAT

- Increased access to, and production of, locally grown food, strengthen climate resiliency, and spur economic activity through community gardens, urban farms, rooftop farms, and controlled environment agriculture



Before



After

Place type: Campuses

Typical implementation timeline: 1-3 years

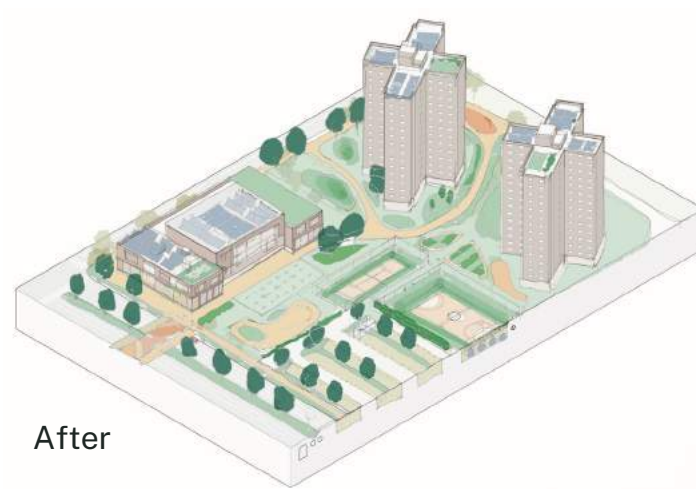
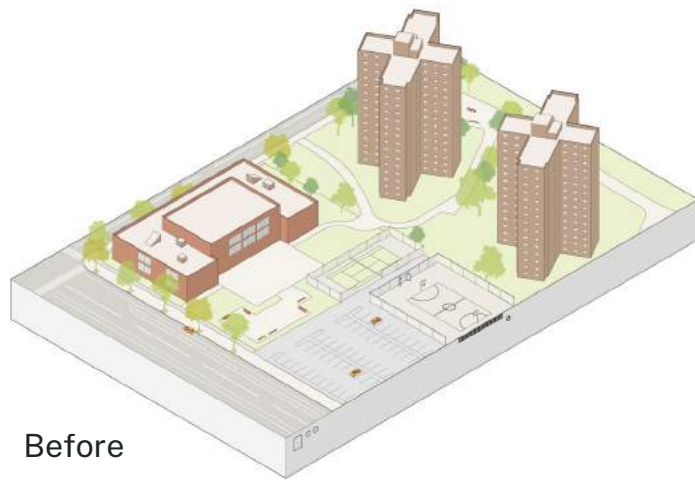


Mariners Harbor Houses Farm, Staten Island

Cloudburst



→ Campus-scale approaches to absorb, store, and transfer stormwater to minimize flooding from extreme rain events.

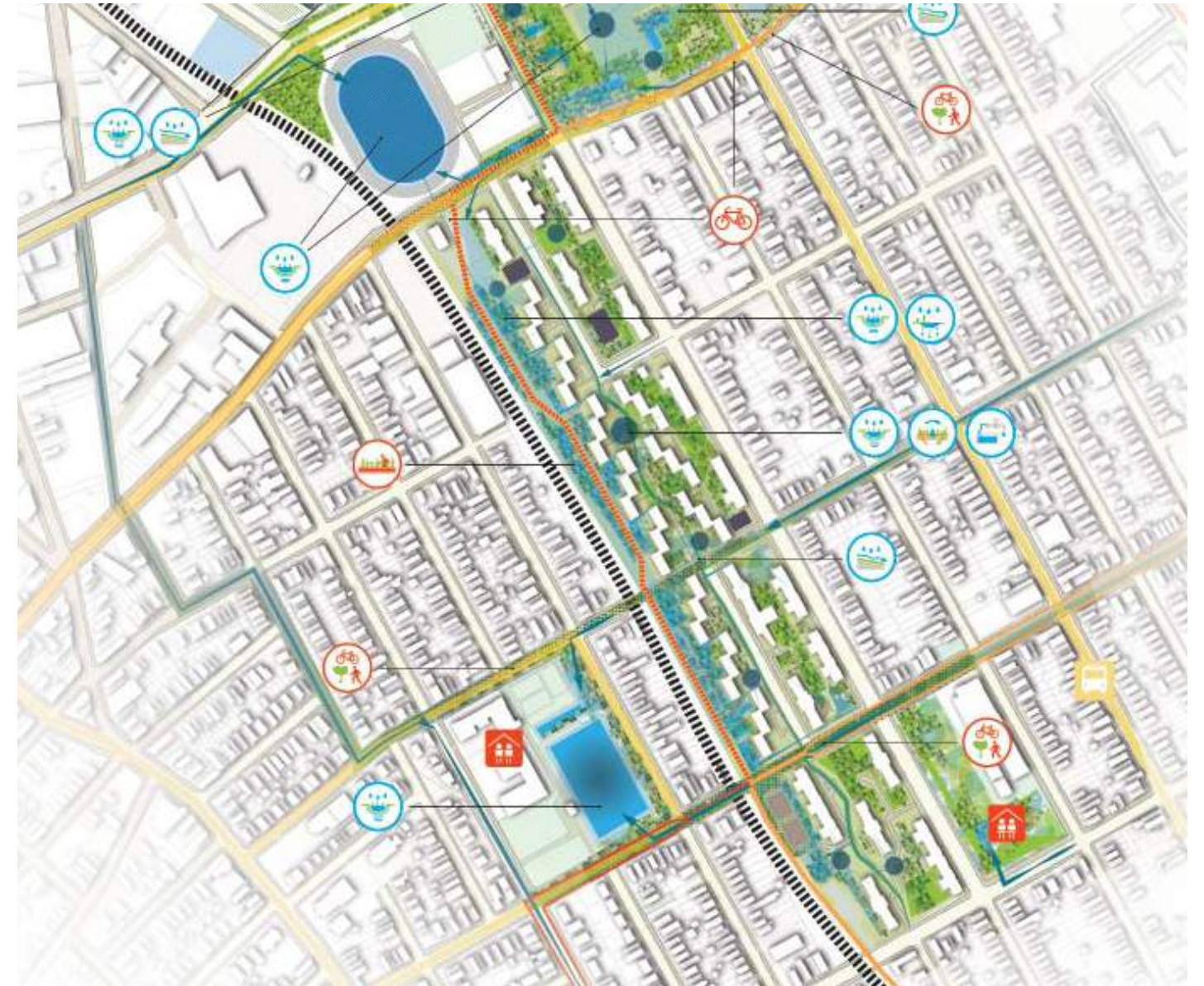


Before

After

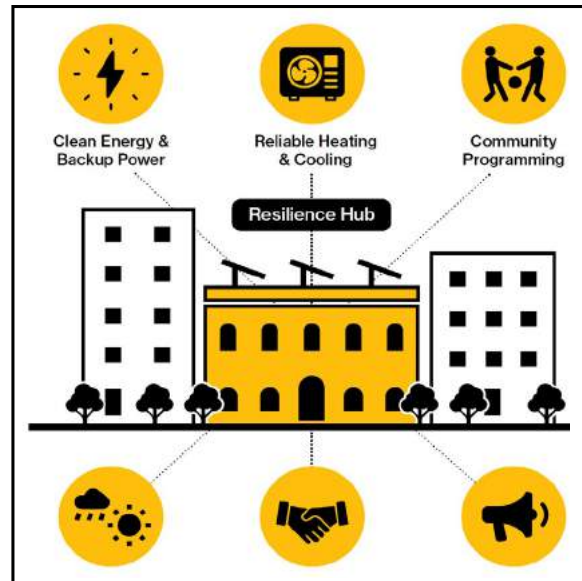
Place type: Campuses

Typical implementation timeline: 3-5 years



South Jamaica Cloudburst Pilot

Selected Programs for discussion



Resilience Hubs



Urban Agriculture



Urban Forestry



Resilient Playgrounds



Climate Adaptation Exercise

Discussion Questions

Goal: Community input and perspective on potential programs

- Where could this be implemented?
- Who would benefit or be negatively impacted?
- Who should be involved?
- What other benefits can this provide?
- What problems could this solve?
- What other community priorities could this connect with?
- How could this impact life in the neighborhood?

Next Steps

Next Steps

Stay tuned for Climate Strong Communities' Virtual Climate Summit in April 2024.

To stay in touch, please contact:
ClimateStrongCommunities@cityhall.nyc.gov



Thank You