

# Climate Strong Communities

PORT RICHMOND  
PUBLIC WORKSHOP #2  
13 March 2024



# 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)

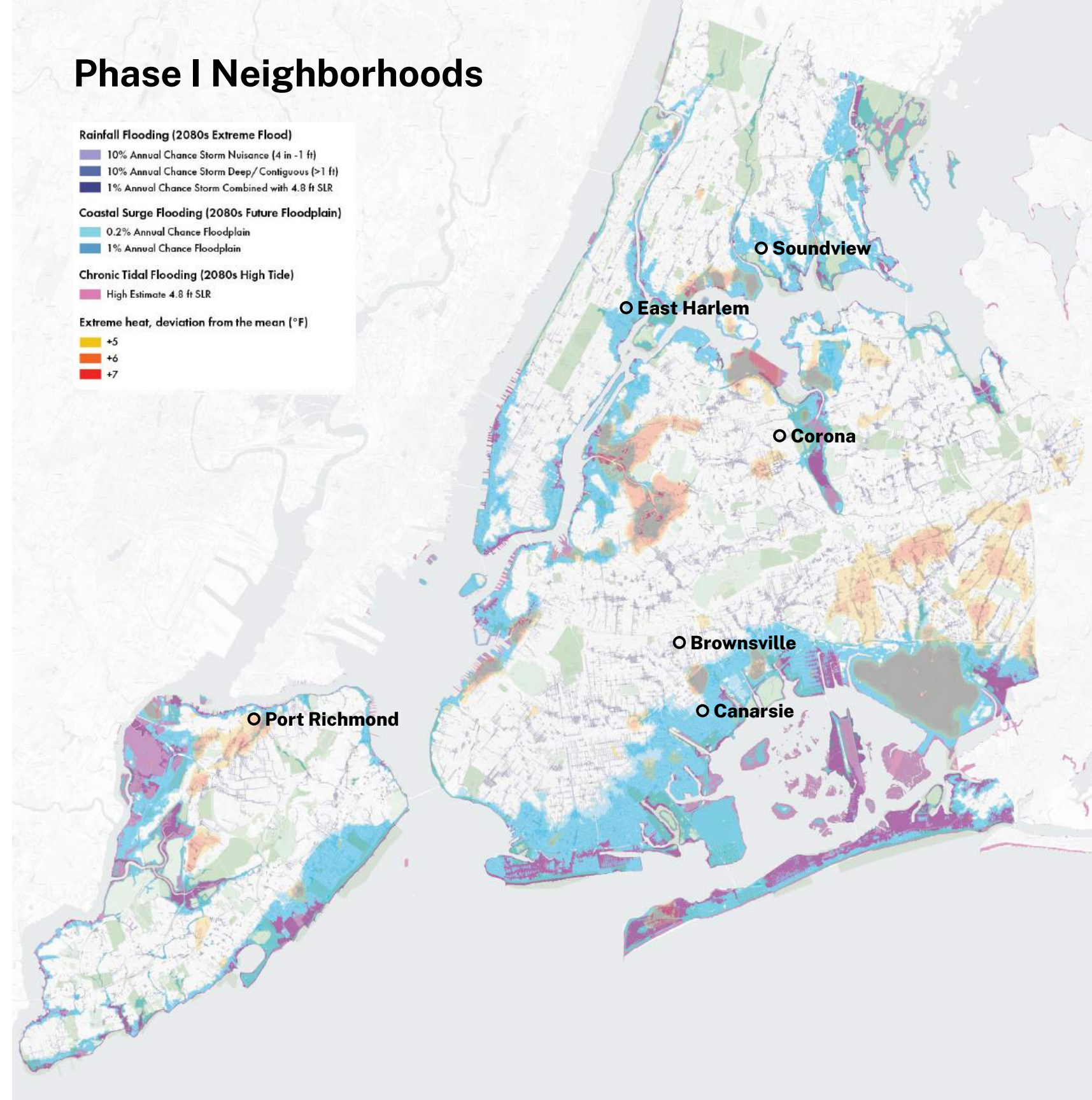
- 0.2% Annual Chance Floodplain
- 1% Annual Chance Floodplain

### Chronic Tidal Flooding (2080s High Tide)

- High Estimate 4.8 ft SLR

### Extreme heat, deviation from the mean (°F)

- +5
- +6
- +7



# Climate Hazards



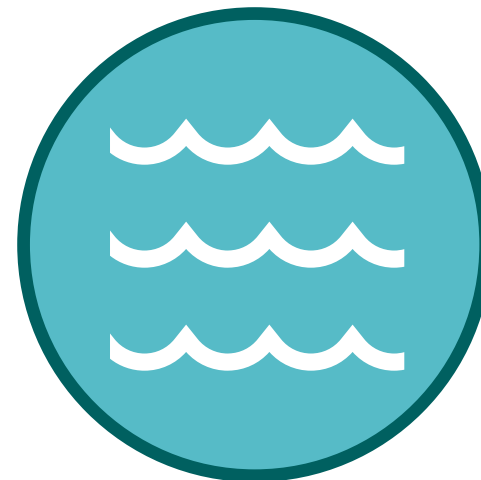
## EXTREME HEAT

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





# 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: Waterfront Regeneration

- BOA study
- EPA clean-up
- Maritime uses
- Access to waterfront
- Environmental justice





# What We Heard

## Theme: Neighborhood Infrastructure

- Under-maintained and abandoned infrastructure
- Previous planning (BOA report, Hunter College vision plan, and DCP Richmond Terrace plan)
- Lack of community access to climate education and disaster response services





# What We Heard

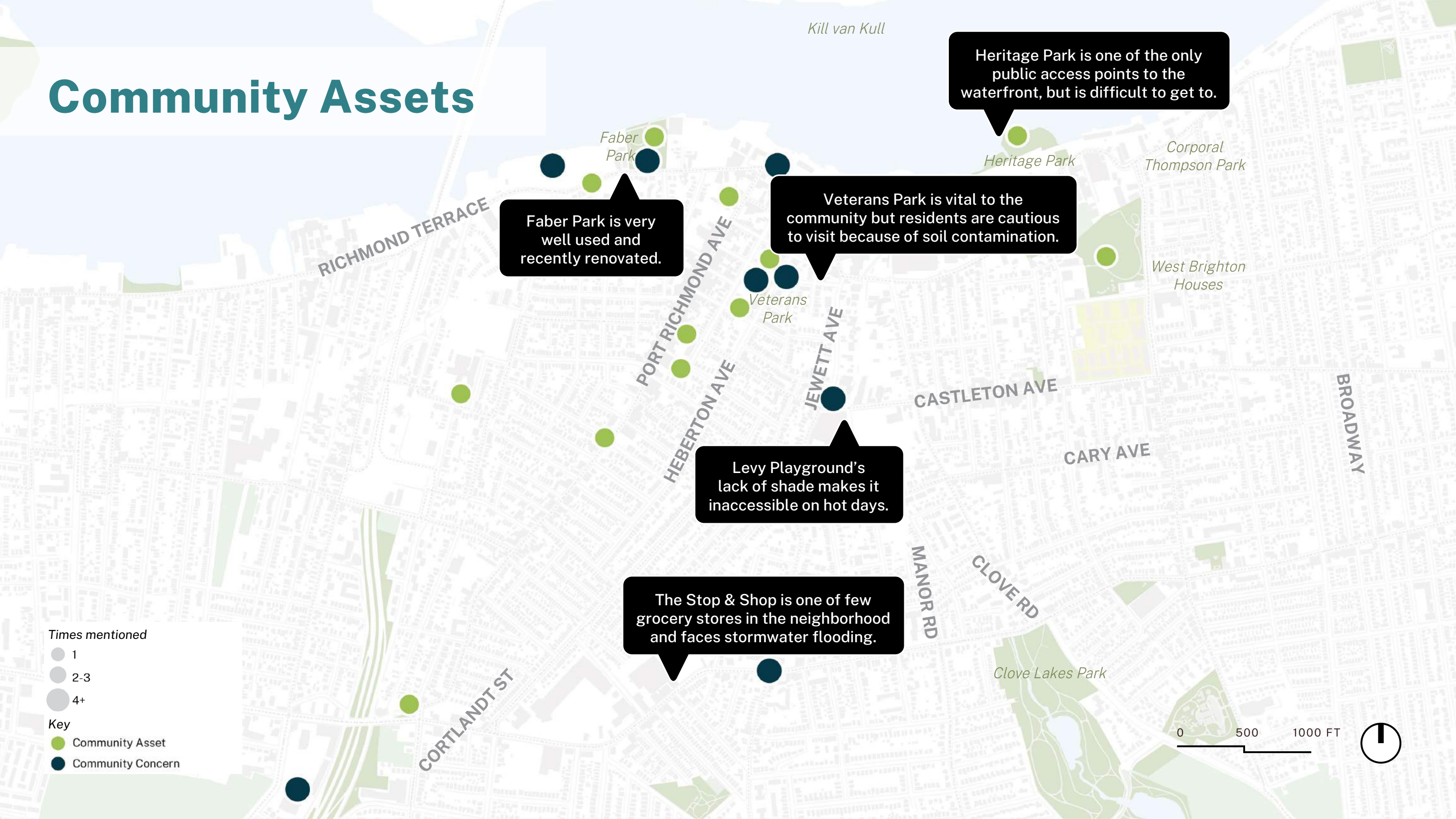
## Theme: Preservation of Community History

- Veteran's Park
- Reformed Dutch Protestant Church
- Port Richmond Library
- Historic maritime industry





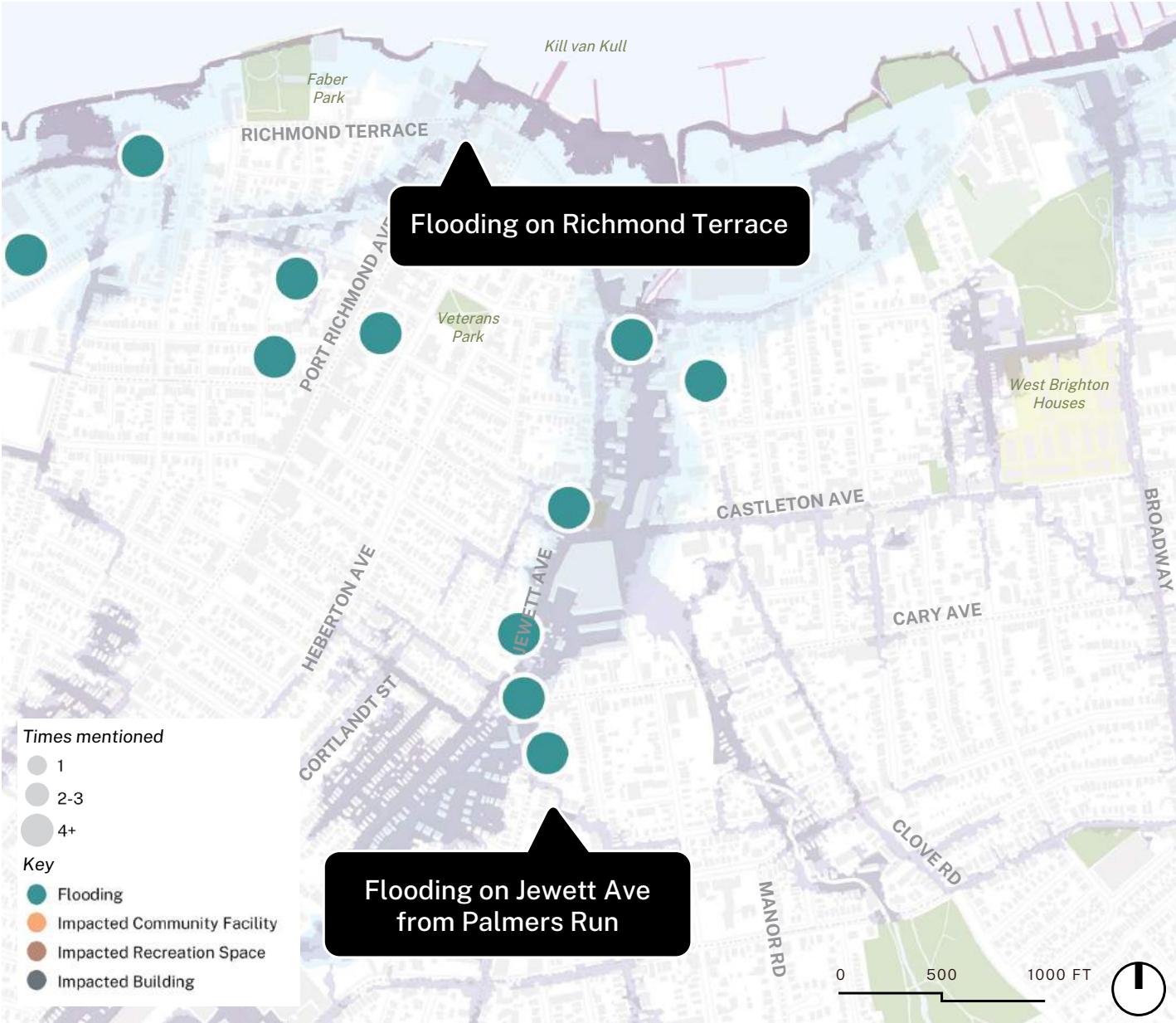
# Community Assets





# Climate Threats


Coastal and Stormwater Flooding Discussion Map



Urban Heat Discussion Map





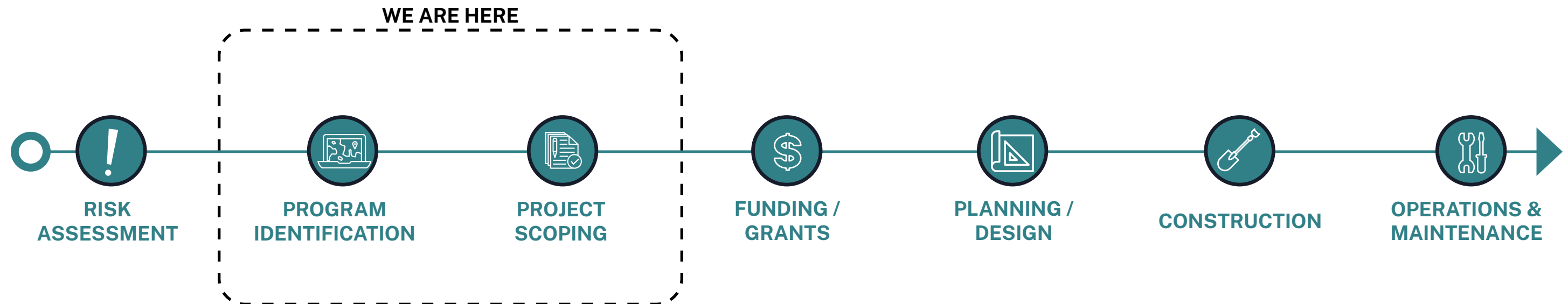


# Climate Adaptation Framework



# Life Cycle of a CSC Project

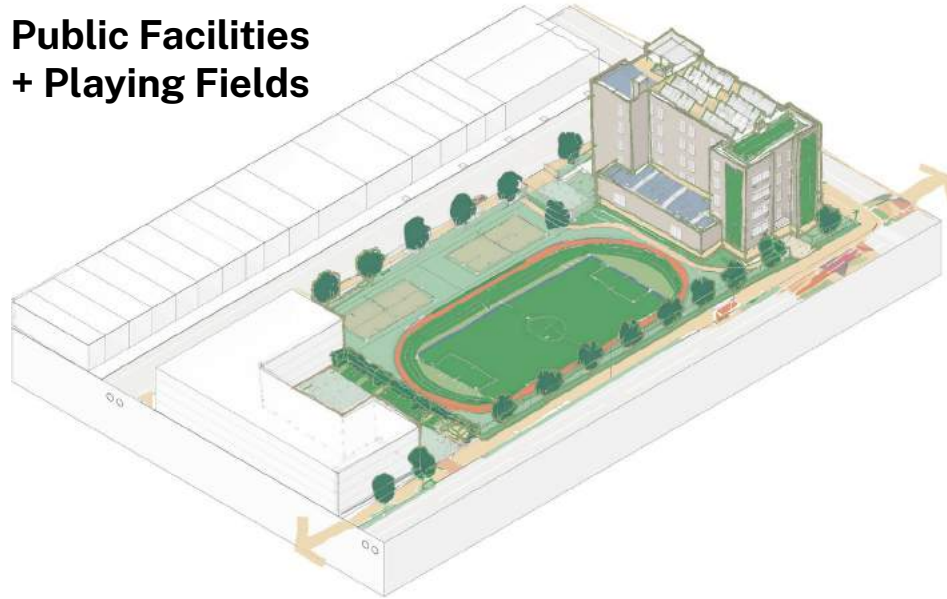
CSC is working with communities to understand their climate threats, planning context, and current priorities in order to identify, scope, and fund resilience infrastructure projects.





# Place Types

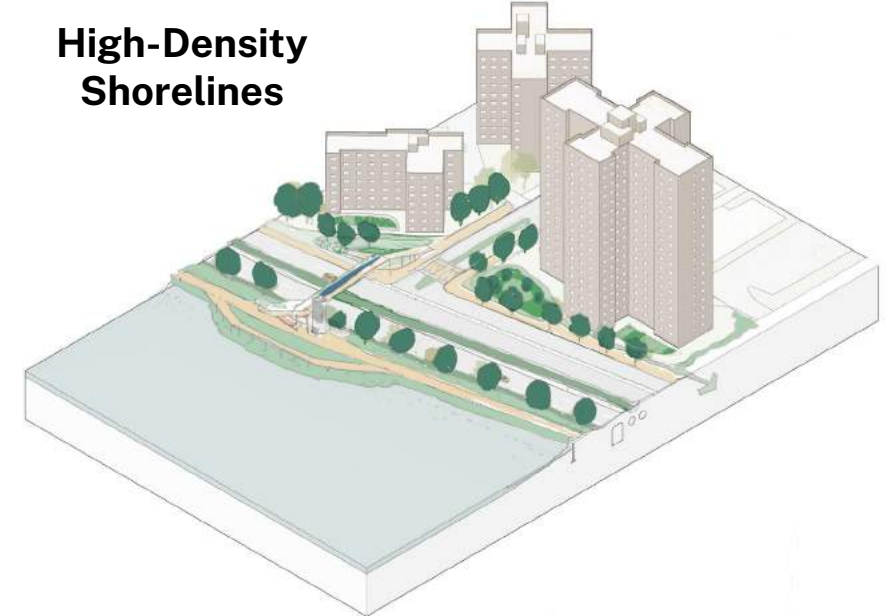
**Public Facilities  
+ Playing Fields**



**Parks +  
Nature Areas**



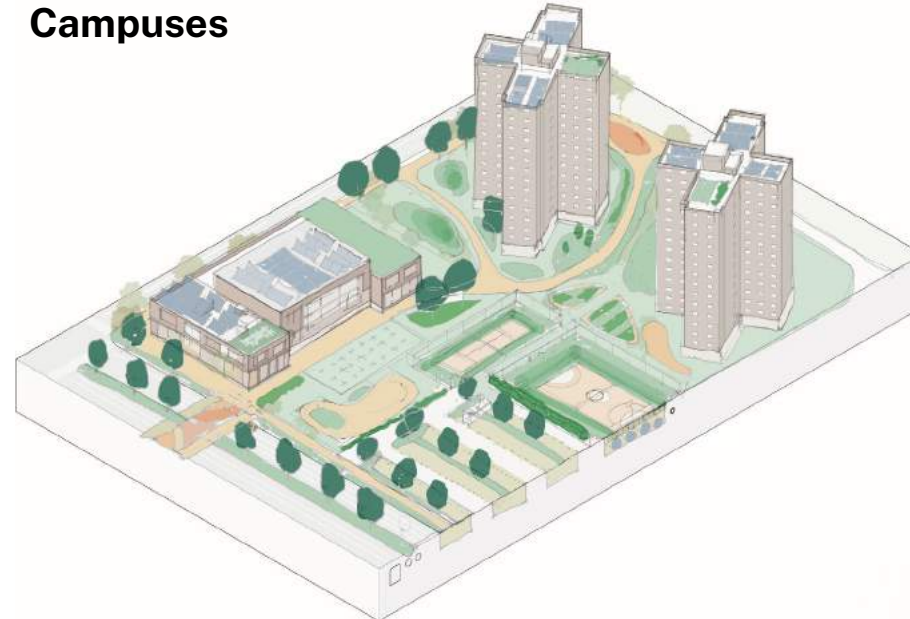
**High-Density  
Shorelines**



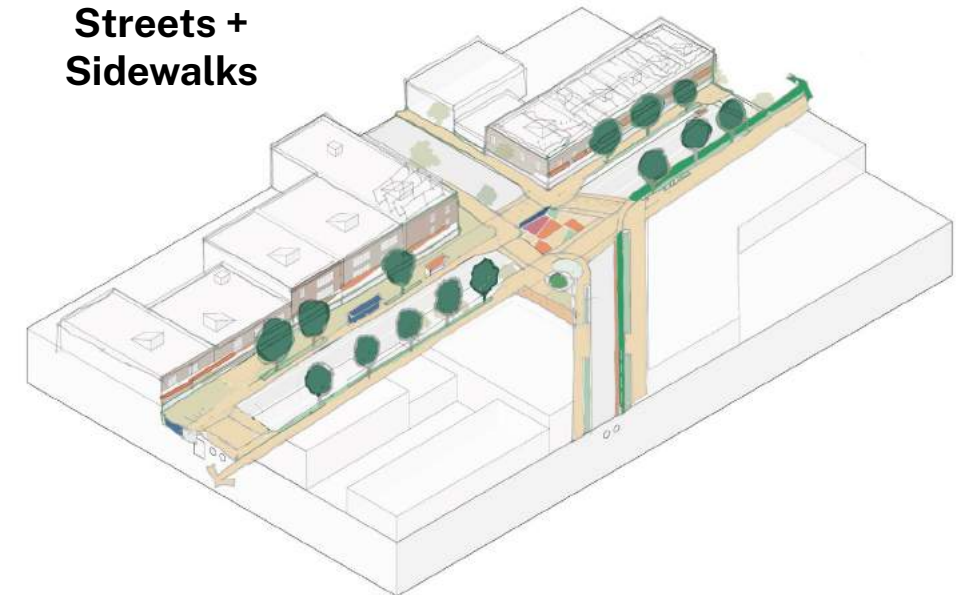
**Homes, Yards  
+ Parking Lots**



**Campuses**



**Streets +  
Sidewalks**





# Programs



**Cool Corridors**



**Bluebelts**



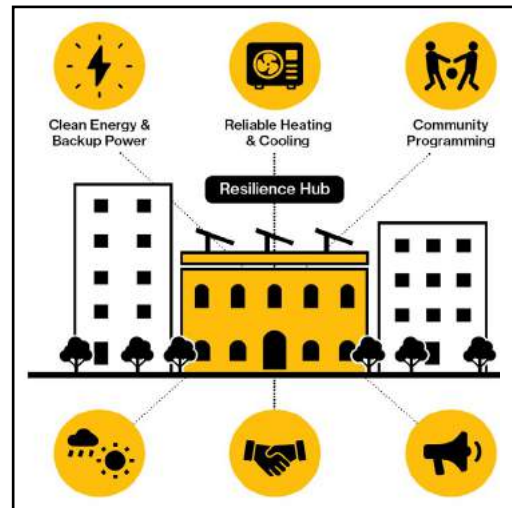
**Urban Forestry**



**Resilient Playgrounds**



**Resilient Grids**



**Resilience Hubs**



**Urban Agriculture**

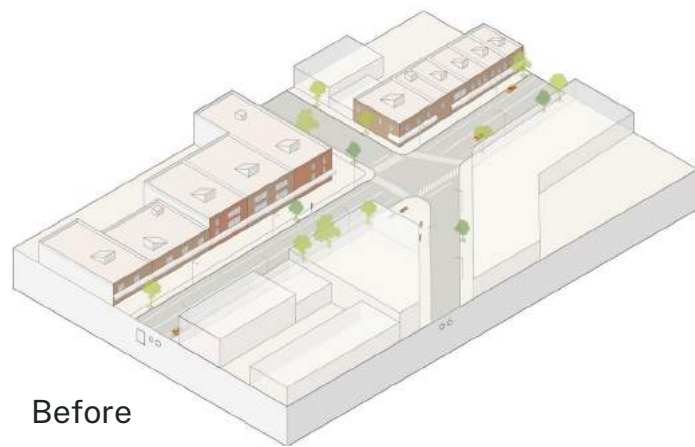


**Cloudburst Projects**

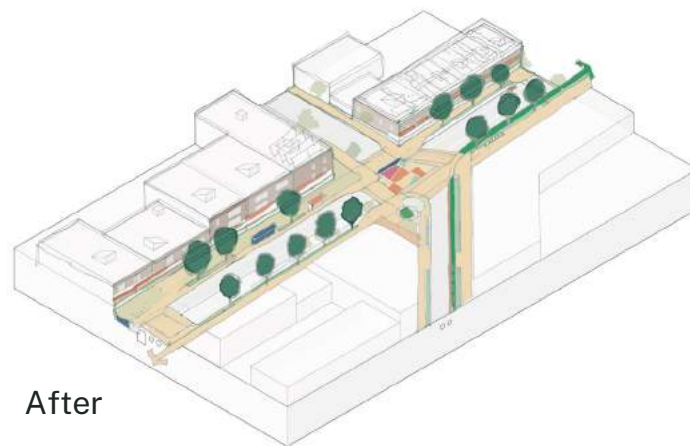


# Cool Corridors

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



Before



After

Place type: Streets + Sidewalks

Typical implementation timeline: 3-5 years



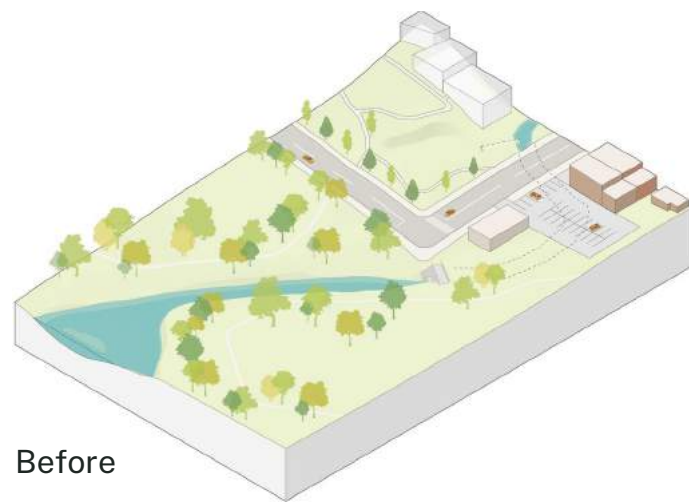
Forest Hills, Queens

Place type: Streets + Sidewalks



# Bluebelts

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



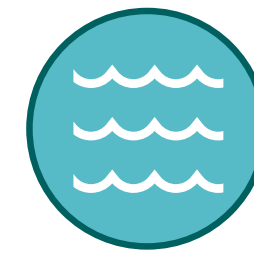
Before



After

Place type: Parks and Nature Areas

Typical implementation timeline: 5+ years



CHRONIC TIDAL FLOODING



EXTREME RAINFALL



COASTAL SURGE FLOODING



New Creek Bluebelt, Staten Island

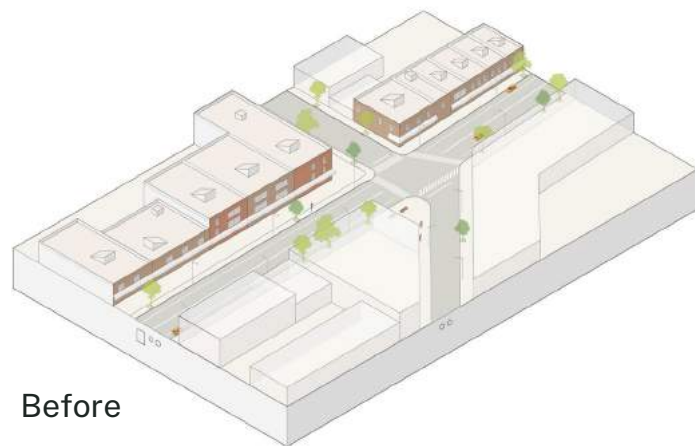


# Urban Forestry

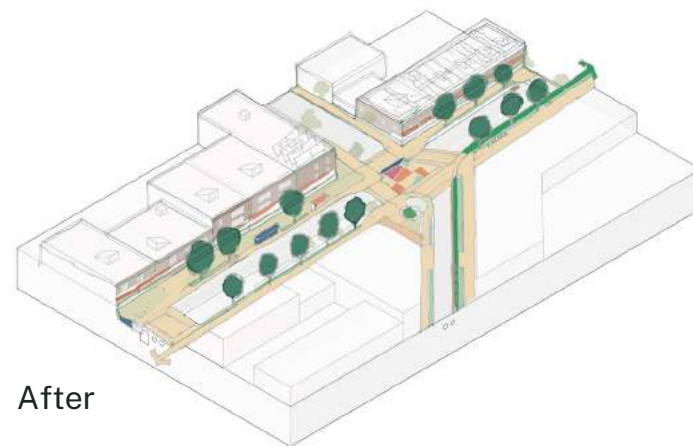


EXTREME HEAT

- 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



Jackson Heights Beautification Group, Queens



# Resilient Playgrounds

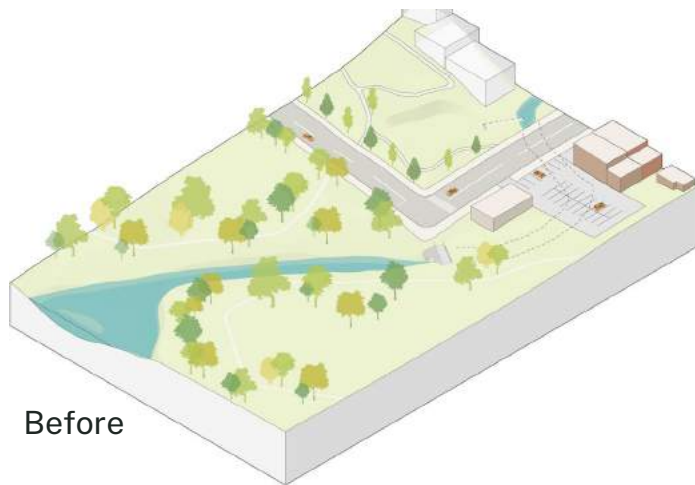


EXTREME RAINFALL



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

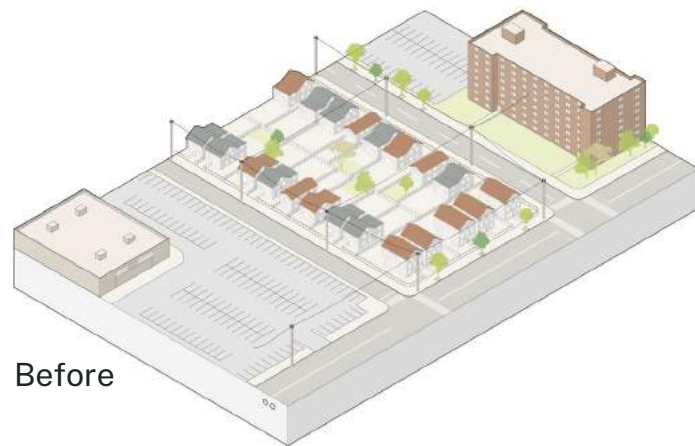


Trust for Public Land Community Schoolyard Initiative, PS 184M, Manhattan



# 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.



Before



After

Place type: Homes, Yards + Parking Lots

Typical implementation timeline: 3-5 years

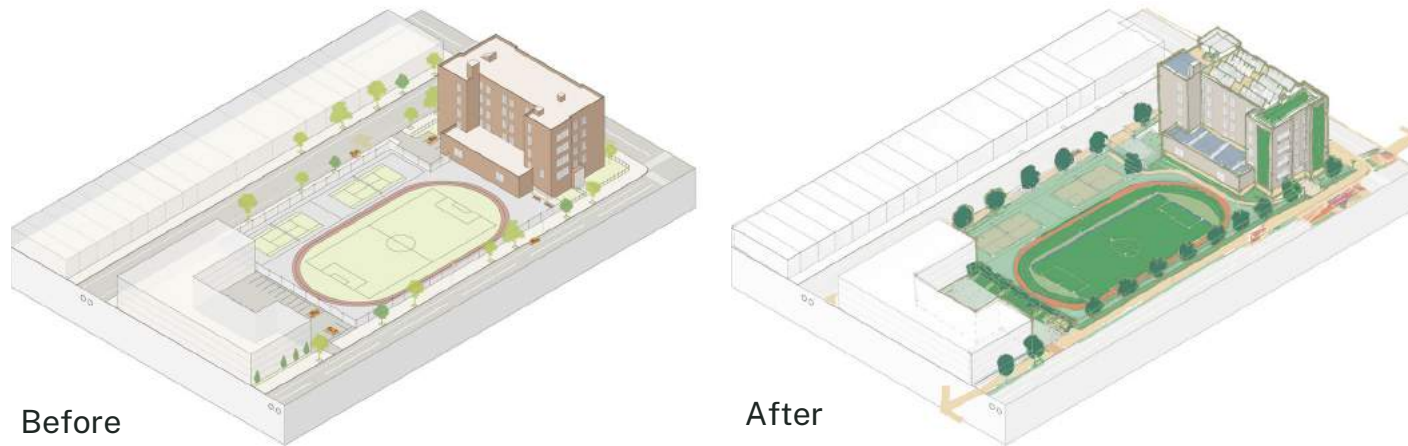


Solar installation at NYCHA Queensbridge Houses



# Resilience Hubs

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



Place type: Public Facilities + Playing Fields

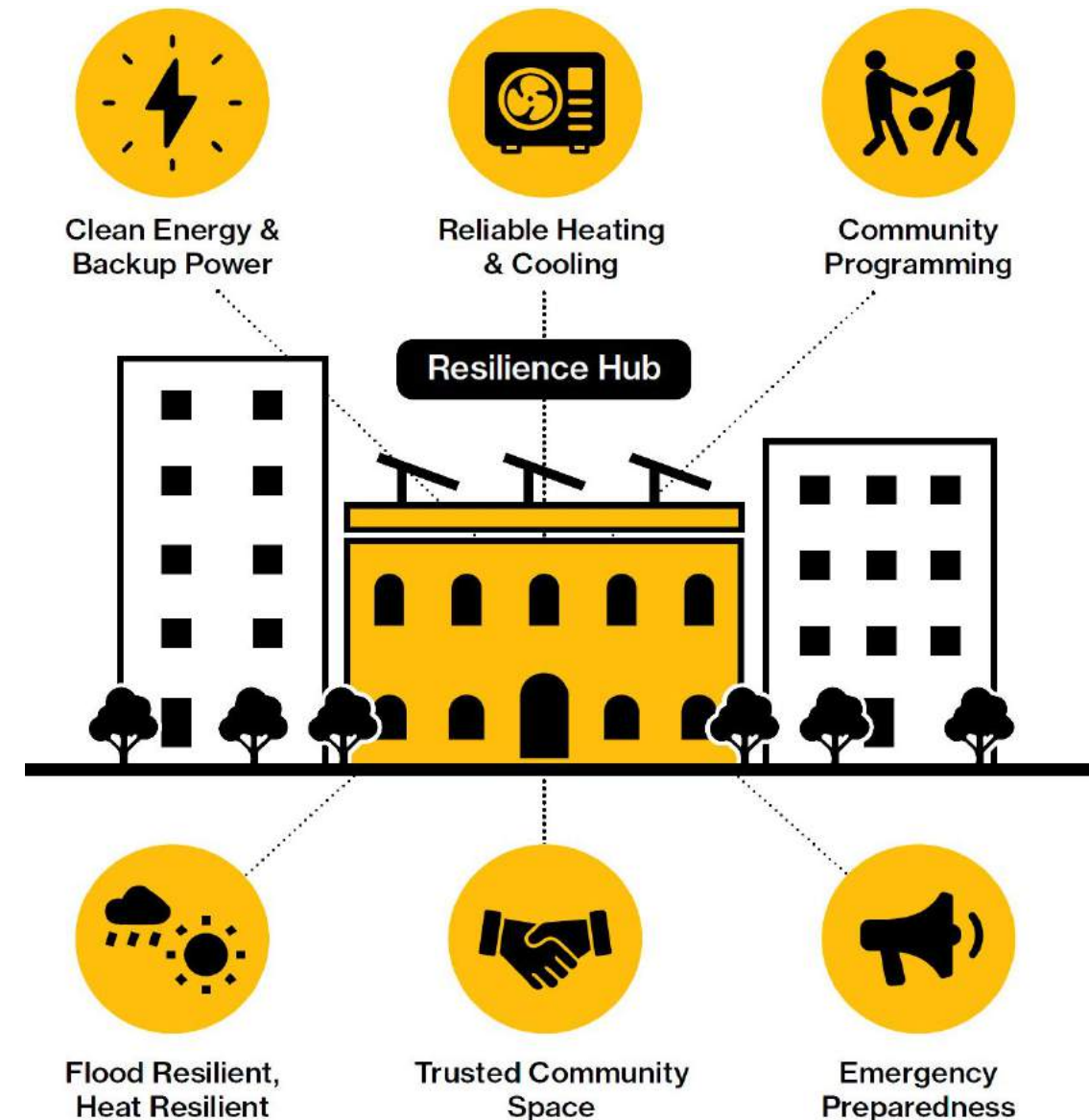
Typical implementation timeline: 3-5 years



EXTREME RAINFALL



EXTREME HEAT

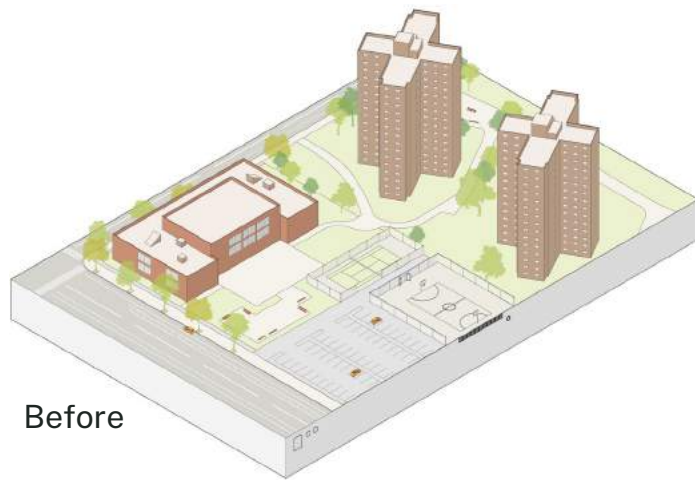


Resilience Hub, PlaNYC 2023



# Urban Agriculture

- 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



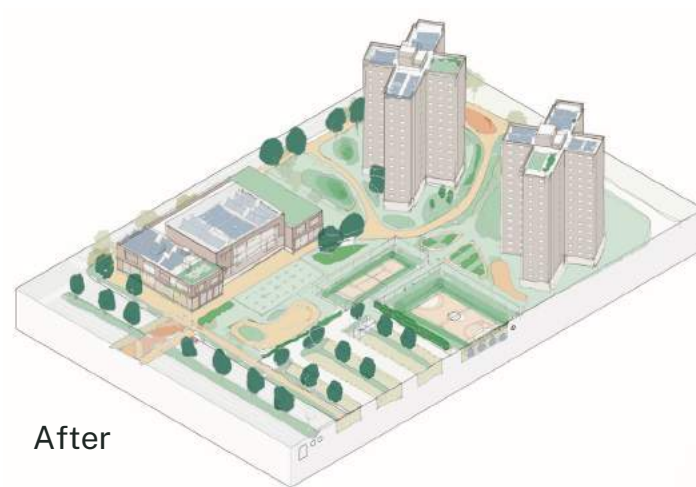
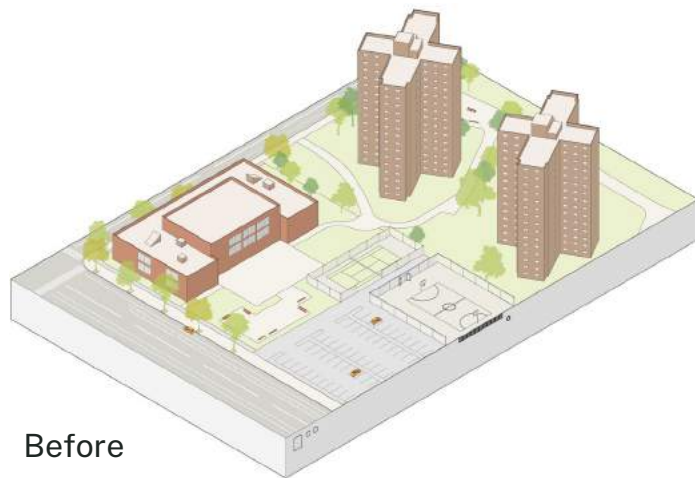
Mariners Harbor Houses Farm, Staten Island



# Cloudburst Projects



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

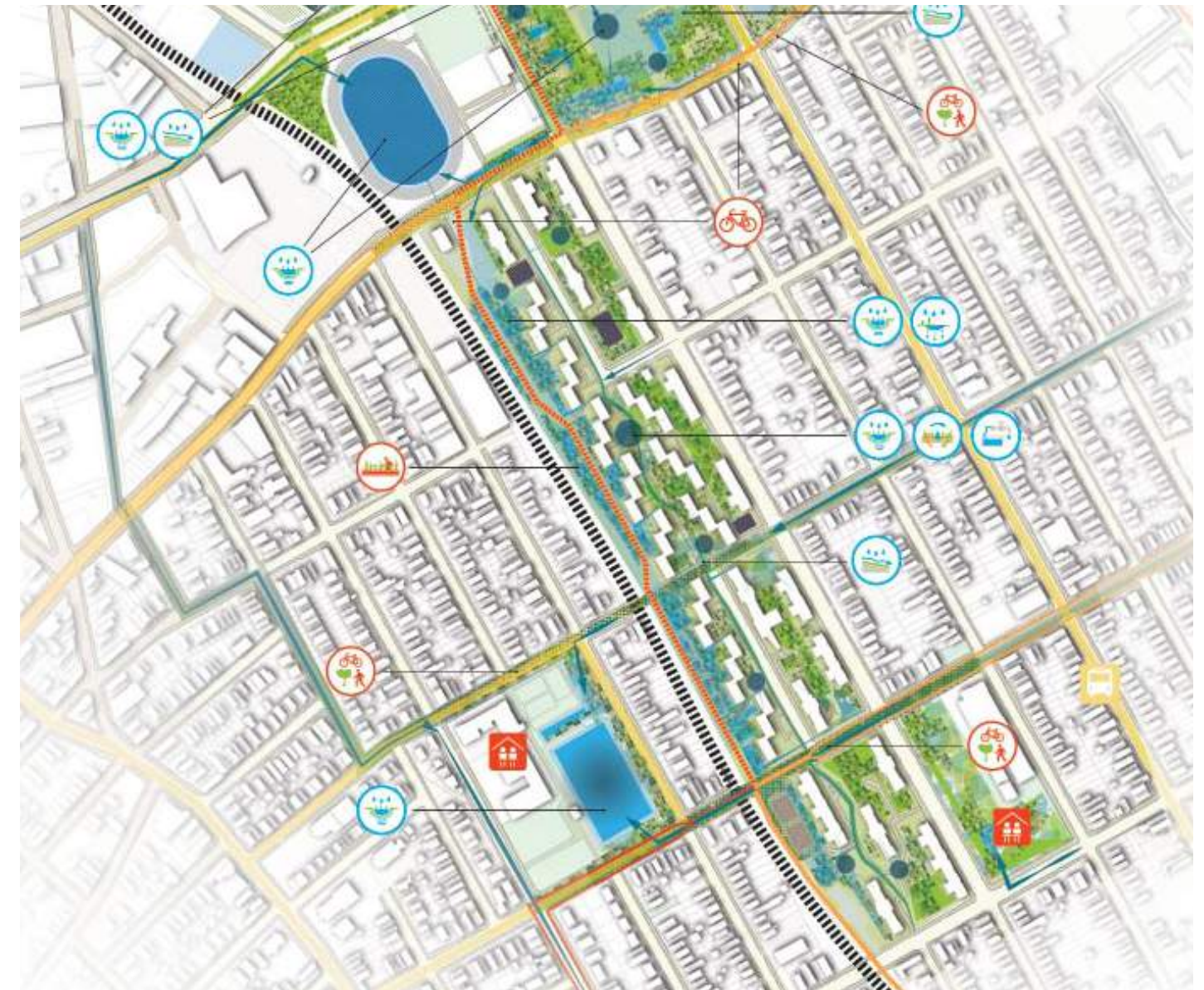


Before

After

Place type: Campuses

Typical implementation timeline: 3-5 years



South Jamaica Cloudburst Pilot



# Selected Programs for Discussion



**Cool Corridors**



**Urban Forestry**



**Bluebelts**



**Resilient Playgrounds**



**Urban Agriculture**





# 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](mailto:ClimateStrongCommunities@cityhall.nyc.gov)





**Thank You**