



Canarsie
Planning Committee Meeting #5

September 22, 2014

Agenda for Planning Committee Meeting #5

1. **NYRCR Program Update** 7:00pm
2. Review Public Meeting Feedback & Strategies 7:10pm
3. Generate Initial Canarsie Project List
 - a. Coastal Protection 7:20pm
 - b. Shoreline Access and Activity 7:50pm
 - c. Economic Development 8:20pm
4. Next Steps 8:50pm

NY Rising to the Top Competition

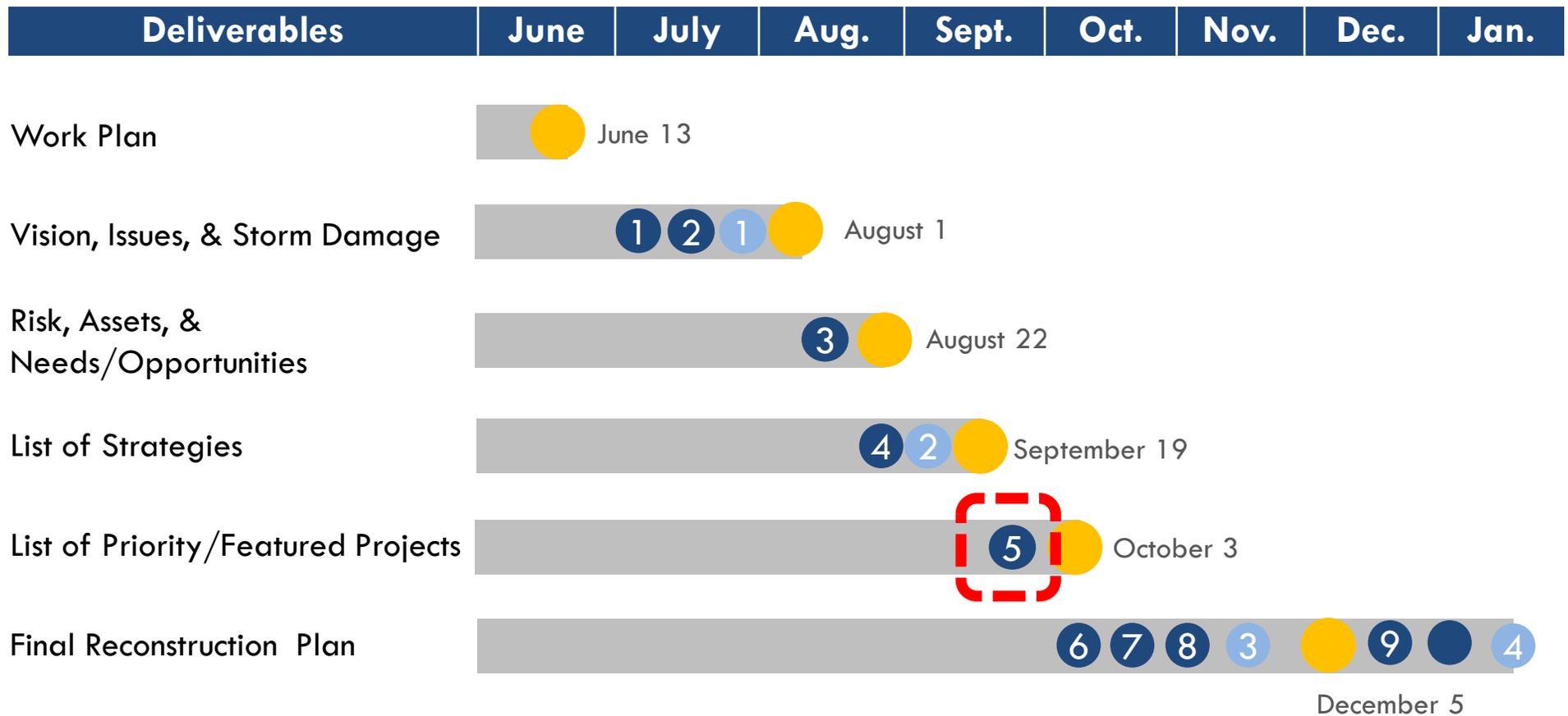
Possible additional funds:

1. Regional Approach (award amount: \$1.5 million)
2. Inclusion of Vulnerable Populations (award amount: \$1.0 million)
3. Use of Green Infrastructure (award amount: \$1.0 million)

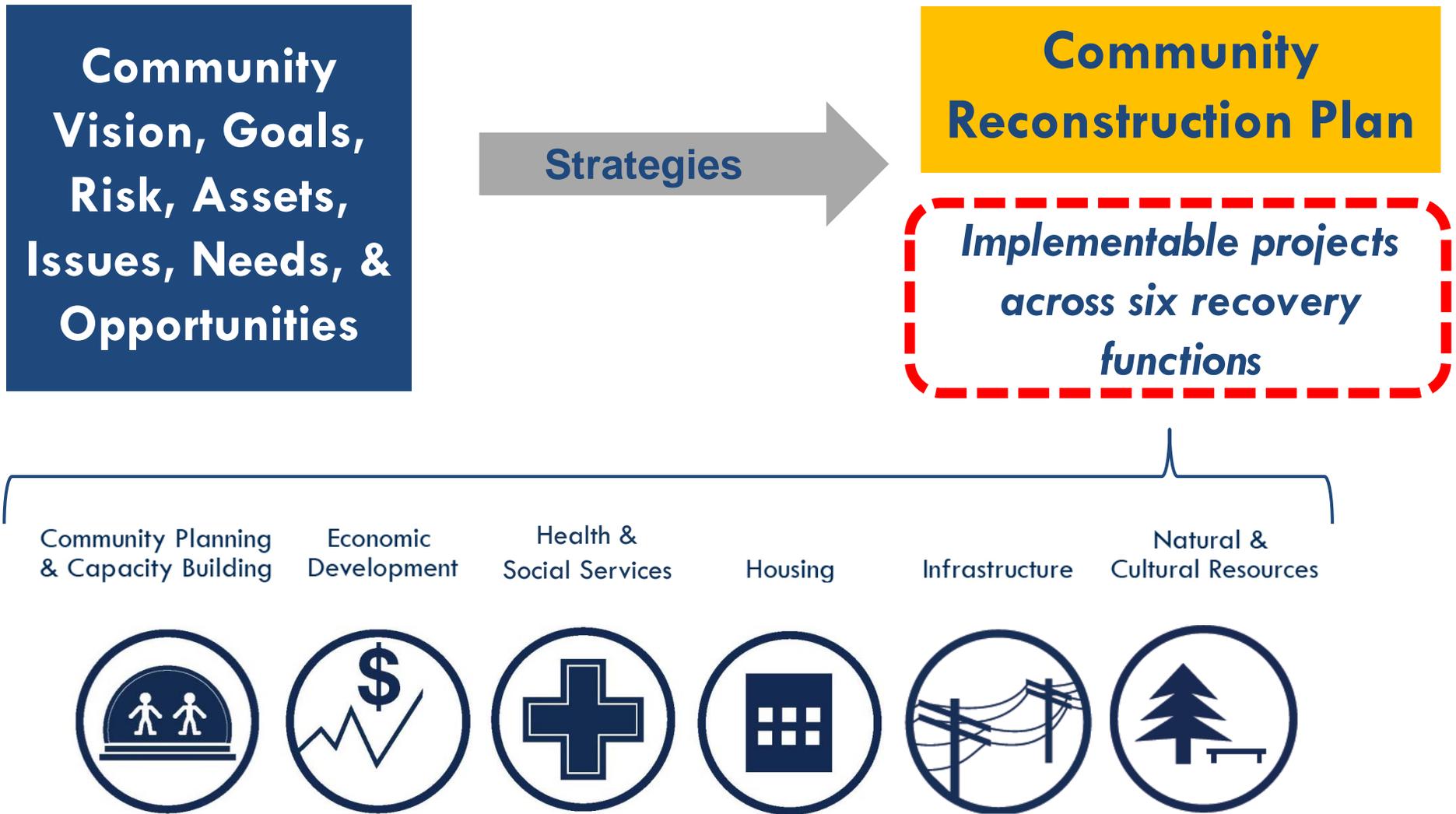
Intent to Apply due October 15th

NY Rising Community Reconstruction Program schedule

- Planning Committee Meeting
- Public Meeting
- Deliverable Due Date



NY Rising Community Reconstruction Goals and Components



Planning Committee Meeting #5 Goals & Outcomes

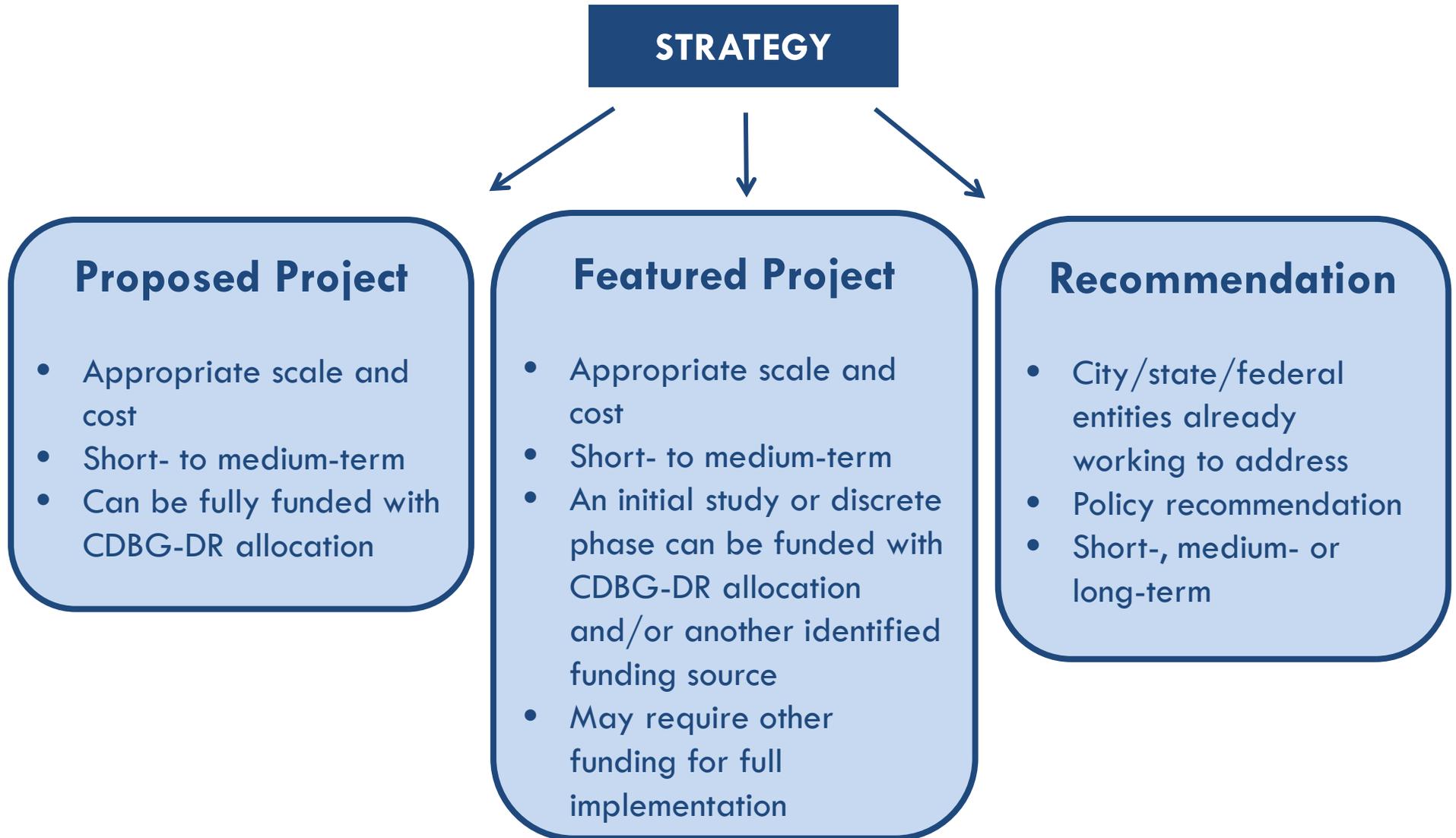
Goals:

1. Review summary of findings from public engagement event.
2. Review strategies
3. Discuss potential projects and recommendations
 - Coastal protection
 - Activation and Access to the shoreline
 - Economic development

Outcomes:

1. Develop preliminary list of project ideas.

In this phase, we'll identify preliminary initiatives for evaluation and funding



For example:

STRATEGY: Reduce vulnerability to coastal flooding and sea level rise

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graph TD; Strategy[STRATEGY: Reduce vulnerability to coastal flooding and sea level rise] --> Project[Project]; Strategy --> Recommendation[Recommendation];
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Project

- Comprehensive flood protection study
- Targeted flood protection intervention, e.g. living reef

Recommendation

- Recommend that agencies incorporate flood protection strategies for Canarsie into existing plans (e.g., USACE reformulation study)
- Recommend regional strategies for Jamaica Bay (e.g. surge barrier)
- Review and mitigate any negative impacts from existing projects

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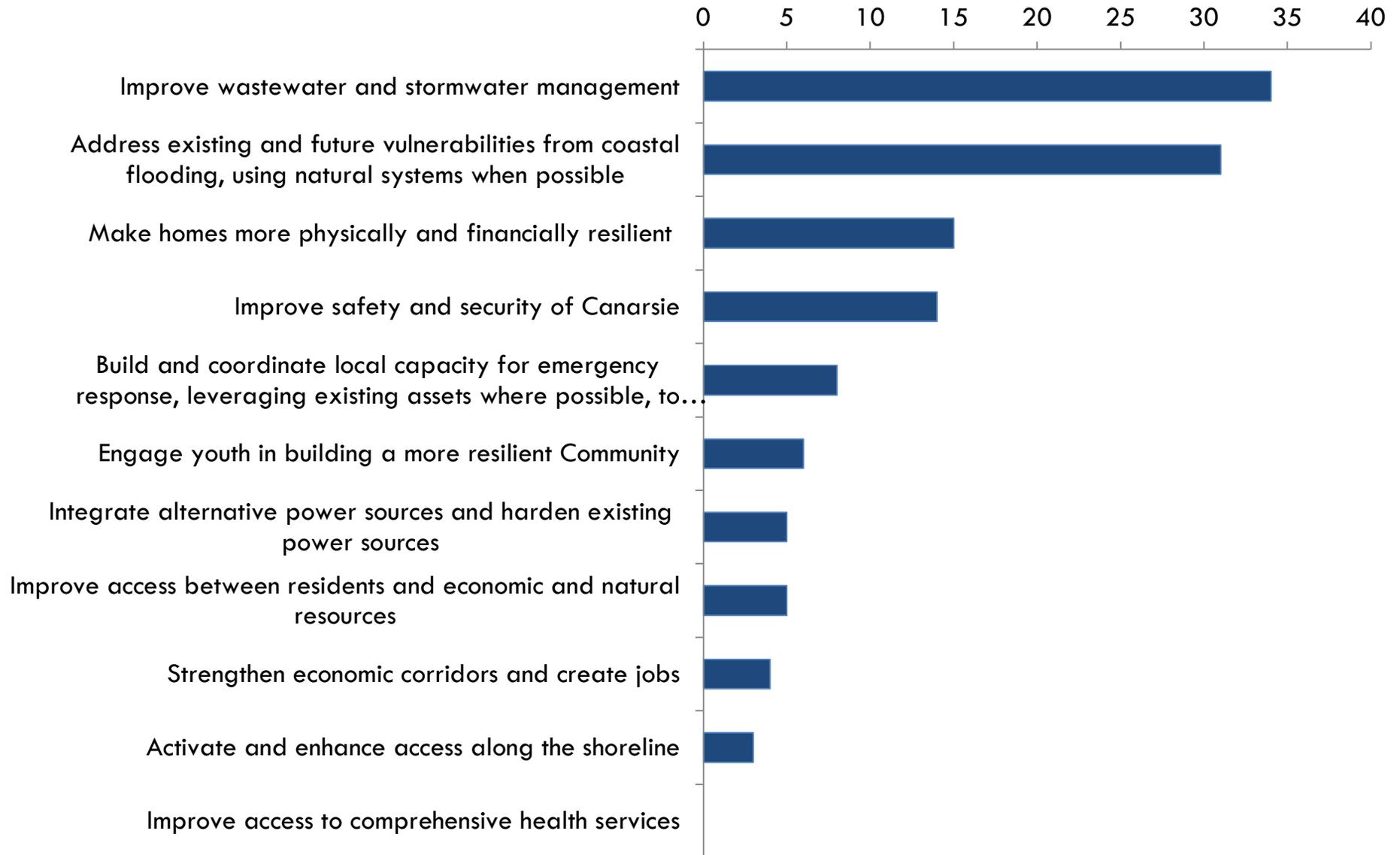
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Public Meeting #2 debriefing

Over 100 participants!



Strategy Votes



Consolidated Strategies

This meeting:

- Reduce vulnerability to coastal flooding & sea level rise
- Activate & enhance access along the shoreline
- Strengthen economic resiliency

Next meeting:

- Build & coordinate local capacity for emergency response
 - *Including power, transportation & mental health*
- Make homes more physically & financially resilient
- Improve wastewater & stormwater management

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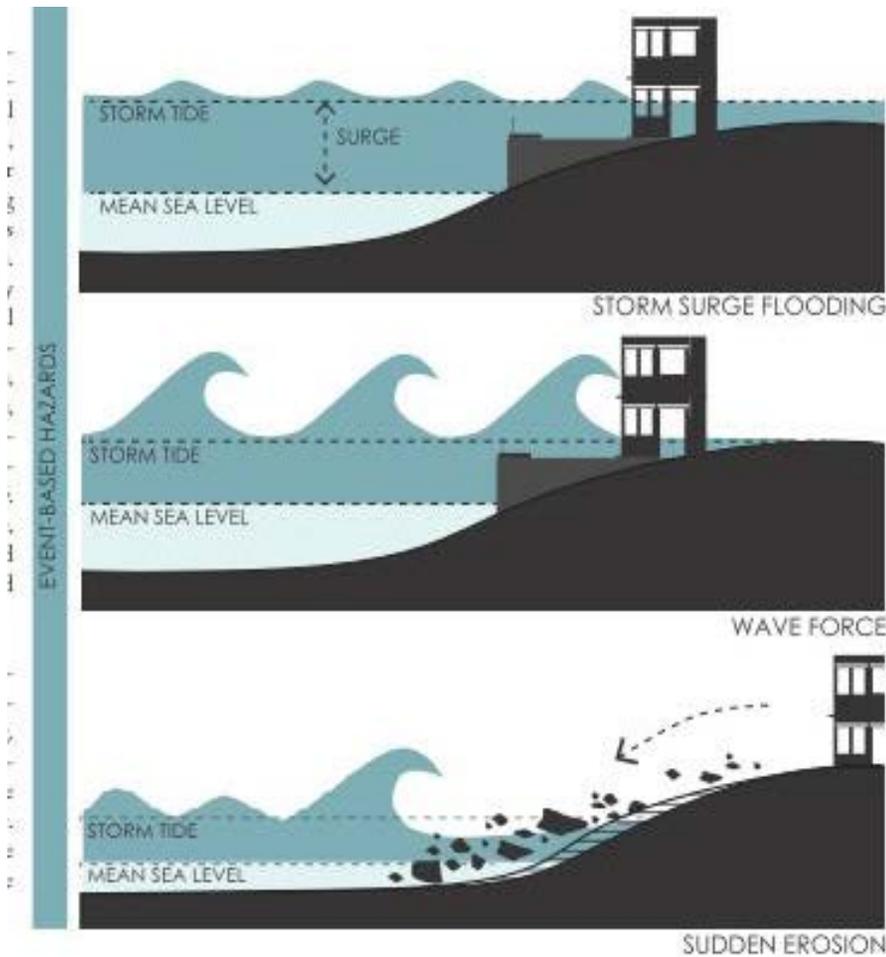
COASTAL PROTECTION

A scenic view of a coastal area. In the foreground, there's a body of water with some rocks and driftwood. The middle ground shows a line of green trees and bushes. In the background, there's a clear blue sky with a bright sun in the top left corner, creating a lens flare effect. The overall scene is bright and clear.

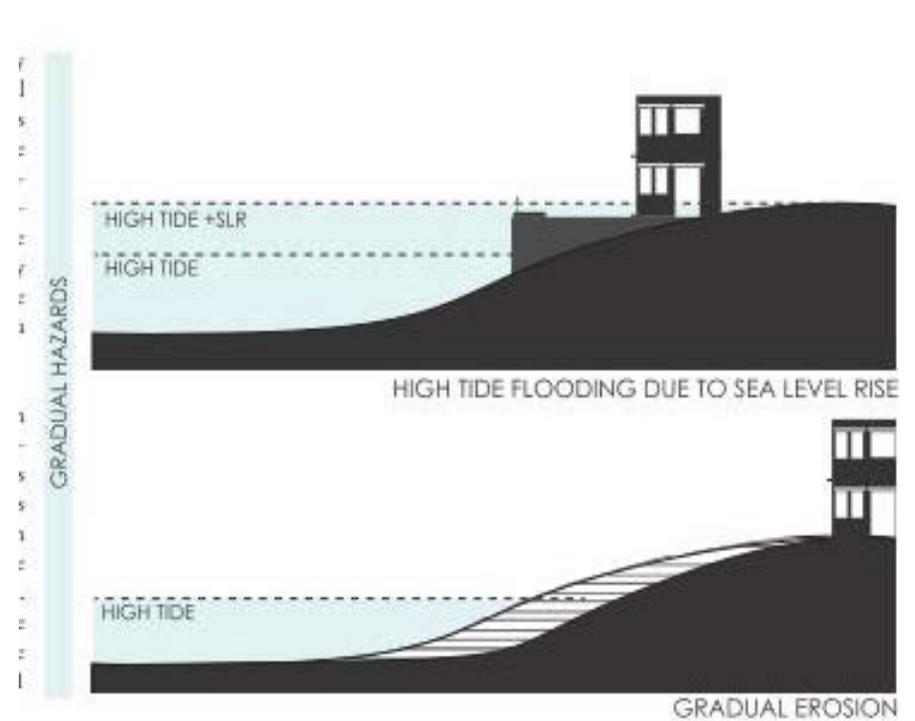
Strategy: **Reduce vulnerability** to coastal flooding
and sea level rise

What are we protecting Against? Coastal Hazards

Event Based Hazards: Coastal Storms

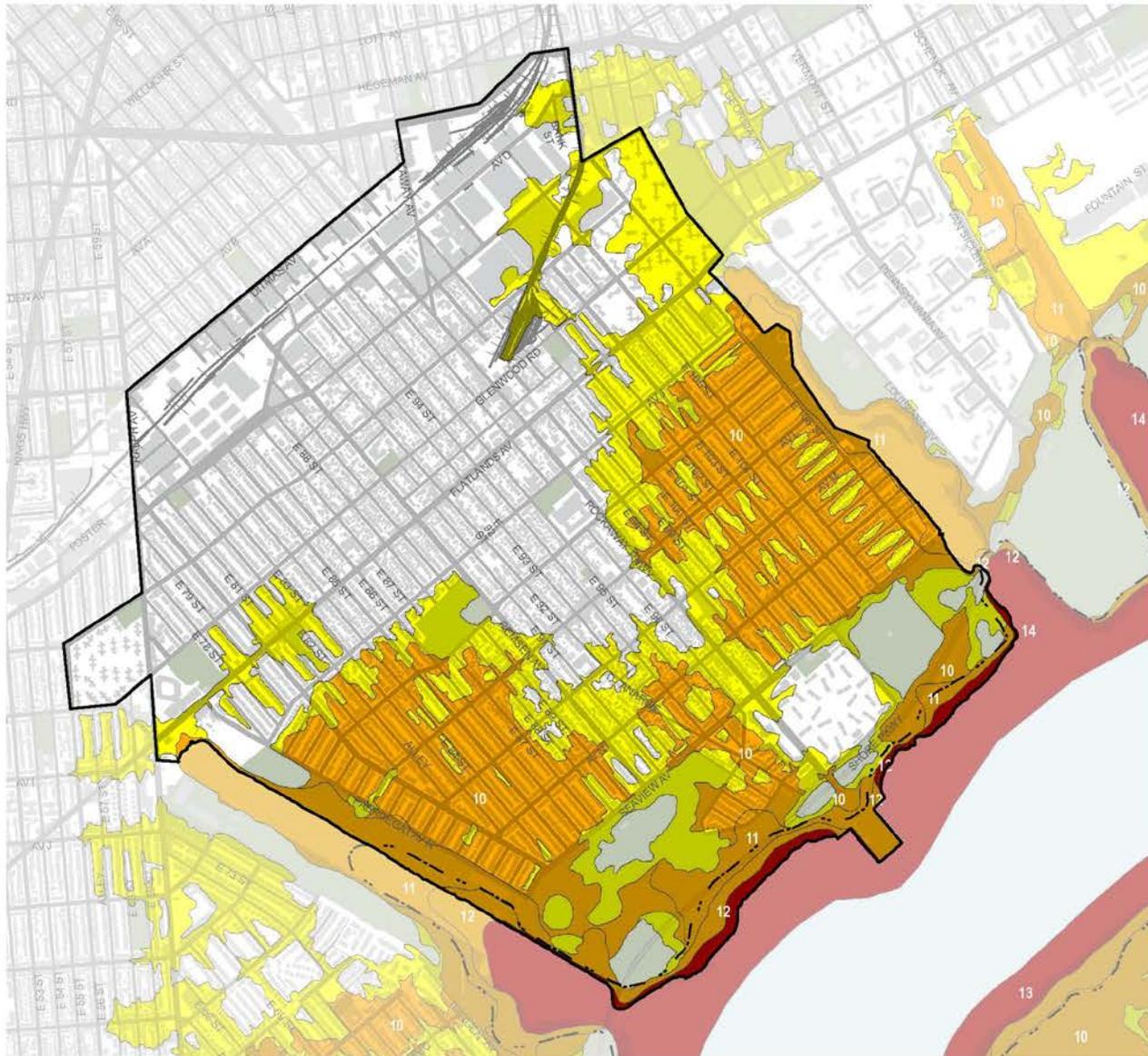


Gradual Hazards



Source: New York City Dept. Of City Planning, “Urban Waterfront Adaptive Strategies” (2013)

Event Based Hazards: 100 and 500 year storms



NY Rising Community Reconstruction Program
Canarsie Planning Area

Planning Area

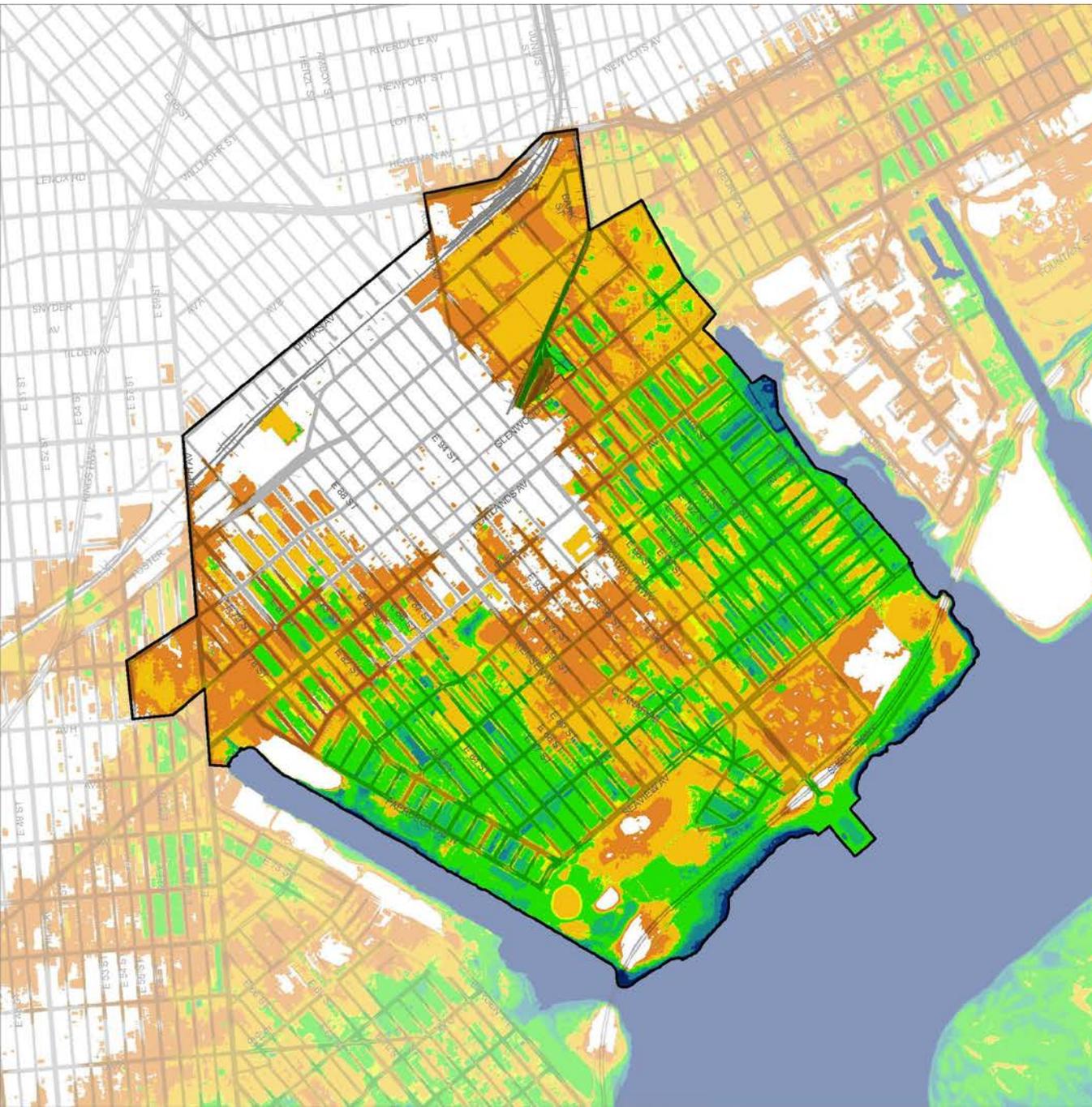
FEMA Preliminary FIRM Flood Zone

- VE zone (waves > 3')
- 100 year floodplain (1% annual chance of flooding)
- 500 year floodplain (0.2% annual chance of flooding)
- Limit of moderate wave action (1'-3' waves)

FEMA Preliminary FIRM
New York City Department of City Planning, MAPPluto v13.1; Buildings; Street Centerlines



Other Hazards: 10 and 50 year storms, sea level rise, & erosion



NY Rising Community Reconstruction Program
Canarsie Planning Area

 Planning Area

Approx. Flood Elevations (NAVD88)
(FEMA Flood Insurance Study, December 5 2013)

-  < 2 (approx. MHW)
-  2 - 5 (approx. MHW+ 3' SLR)
-  5 - 6.7 (approx. 10 year storm)
-  6.7 - 9.8 (approx. 50 year storm)
-  9.8 - 10.2 (approx. 100 year storm)
-  10.2 - 13.1 (approx. 500 year storm)
-  13.1 - 16 (approx. 500 year storm + 3' SLR)
-  > 16

New York City Department of City Planning, MAPInfo v13.1; Buildings; Street Centerlines



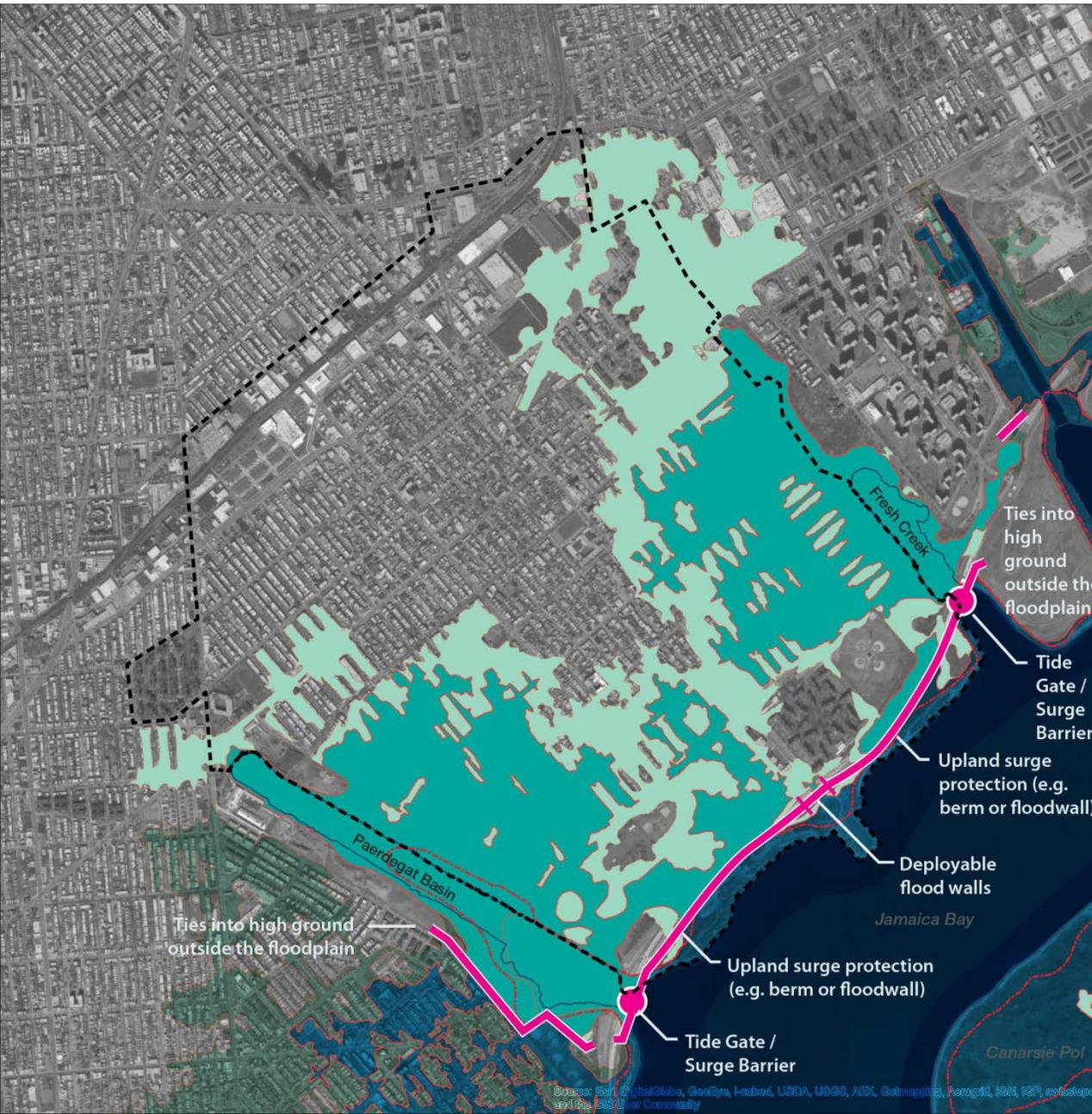
Coastal Protection & Protecting Against Surge

Regional Approach: Leverage existing plans



Protecting Against Surge

Neighborhood Approach: Coordinated with adjacent neighborhoods



- **Pros**

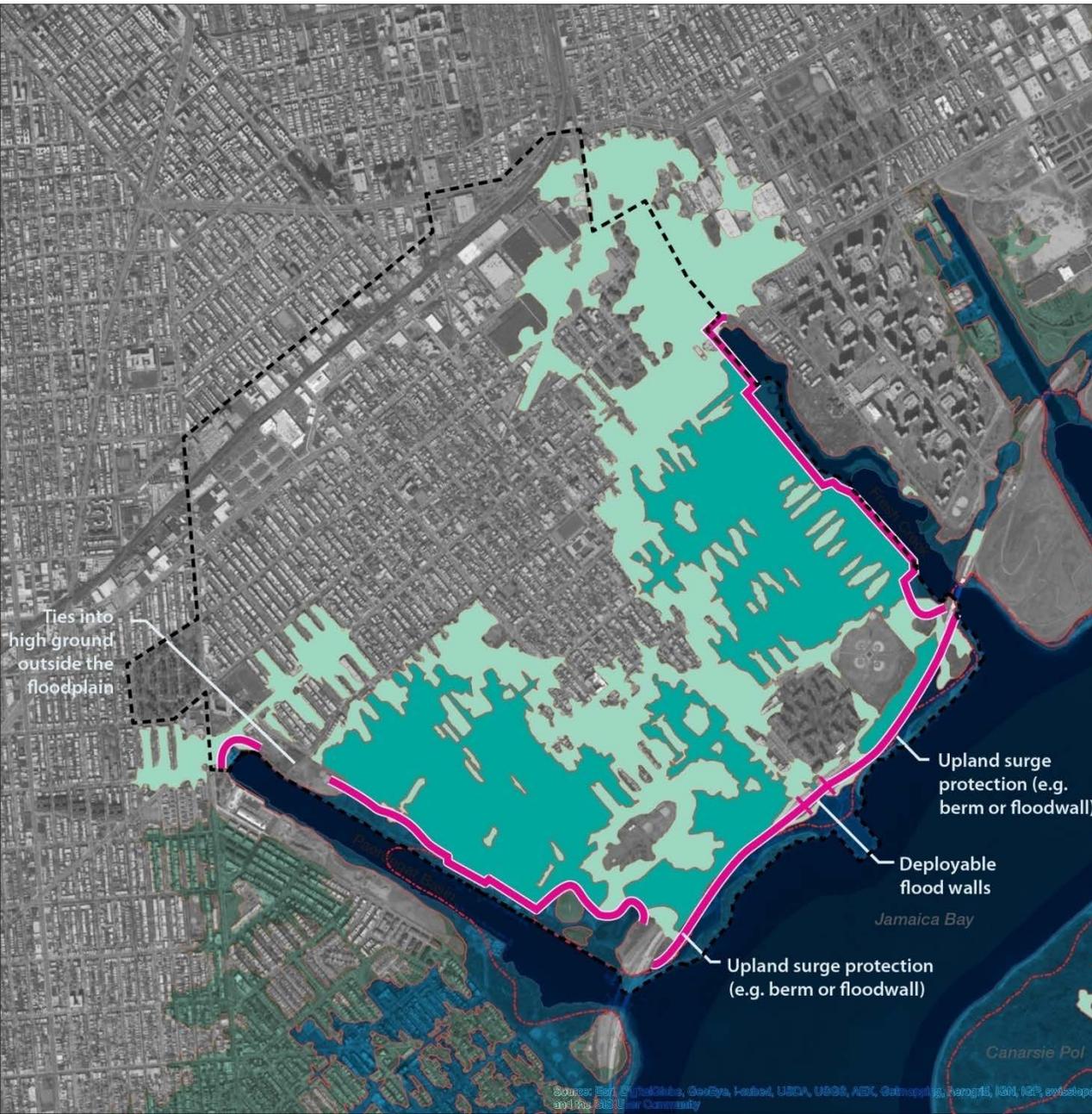
- Provides neighborhood wide protection against a 500-year storm surge

- **Key Concerns**

- Cost: Extremely High
- Requires extensive coordination among, city, state, and federal agencies
- Limits water activity
- Ecological and environmental concerns

Protecting Against Surge

Neighborhood Approach: Canarsie only



• Pros

- Provides neighborhood wide protection against a 500-year storm surge

• Key Concerns

- Cost: High
- Requires extensive coordination among, city, state, and federal agencies
- Limits water activity
- Requires coordination with private property owners
- May have impacts on adjacent neighborhoods and feasibility issues

Techniques to Protect Against Storm Surge (keeping the water out)



Permanent Floodwalls



Seawalls



Levees



Deployable Floodwalls



Tidegates



Berm

Protecting Against Frequent Storms, Sea Level Rise, & Erosion

Shoreline Opportunities



 Planning Area

 Living Shoreline opportunities

 Limit of Moderate Wave Action

Elevation

NAVD88

 < 2 (approx. MHW)

 2 - 5 (approx. MHW = 3' SLR)

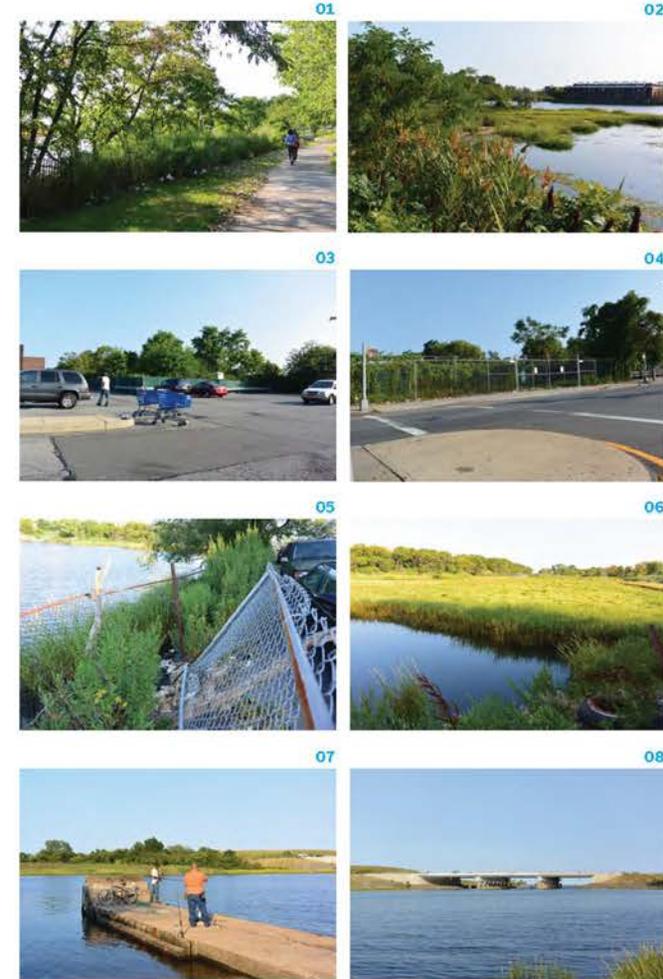
 5 - 6.7 (approx. 10 year storm)

New York City Department of City Planning, MAPPluto v13.1; Buildings; Street Centerlines



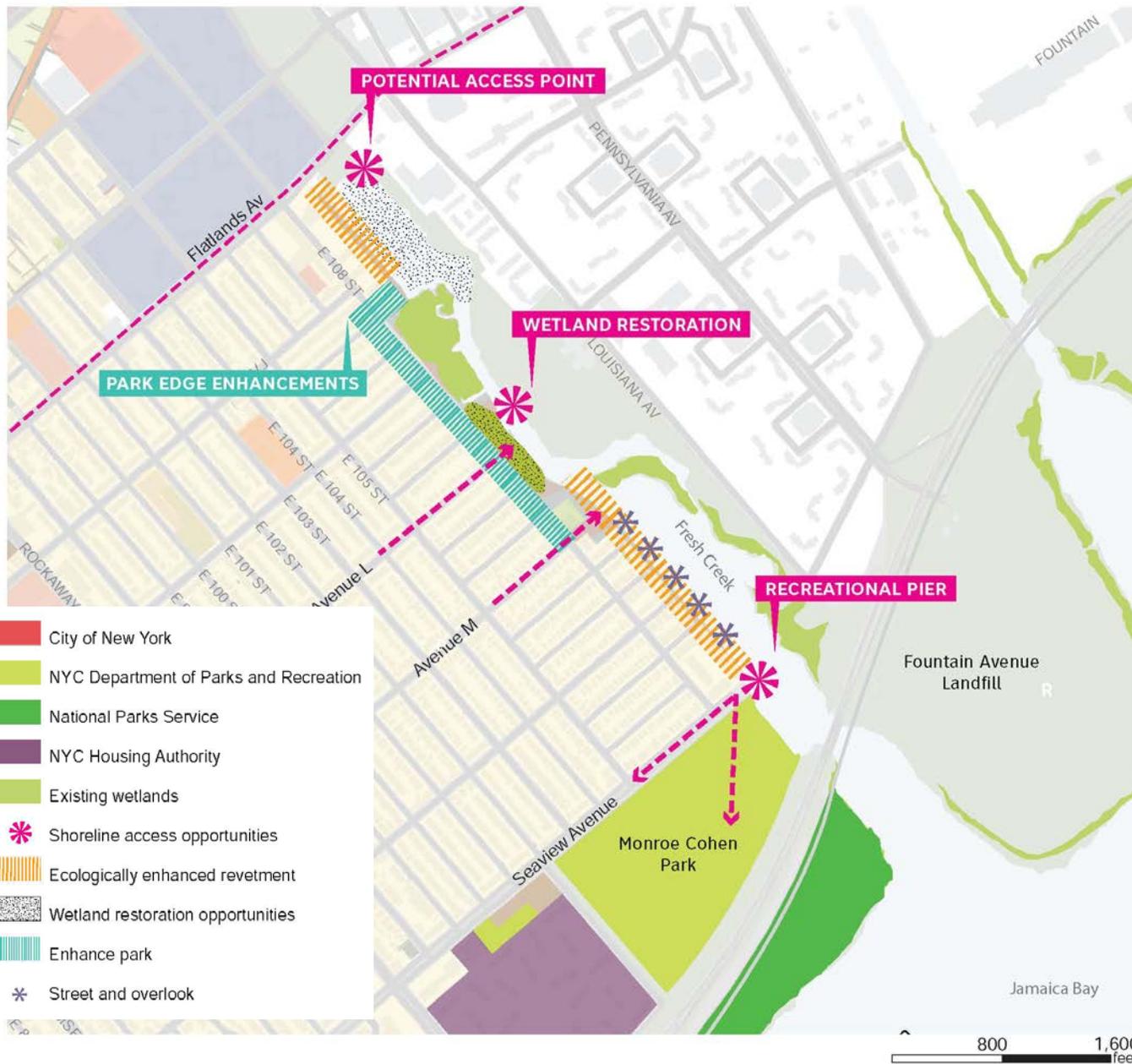
Protecting Against Erosion

Fresh Creek: Existing Conditions



Protecting Against Erosion and Enhancing Access

Fresh Creek: Restoration Opportunities



• Pros

- Stabilizes and provides access to the shoreline
- Leverages existing opportunity
- Enhances activity along shoreline

• Key Concerns

- Cost: Medium
- Does not protect against 100 or 500-year storms

Fresh Creek: Shoreline Access & Restoration Precedents



Ecologically enhanced revetment



Living shoreline along steep slope



Tiered wetland



Street end garden construction



Living Shoreline



Raise / Repair Bulkheads

Potential Coastal Protection Approaches

Event-based protection (storm surge)

- Regional approach
- Neighborhood approach

Gradual hazard protection (sea level rise, erosion)

- Targeted sea level rise protection
- Wetland restoration / erosion protection

Questions to consider

- Which approaches have the most value and why? (e.g. protecting the most vulnerable areas)
- What are your priorities and which approaches best address these?
- What hazards are most critical to protect against? Are there short and long term project considerations?

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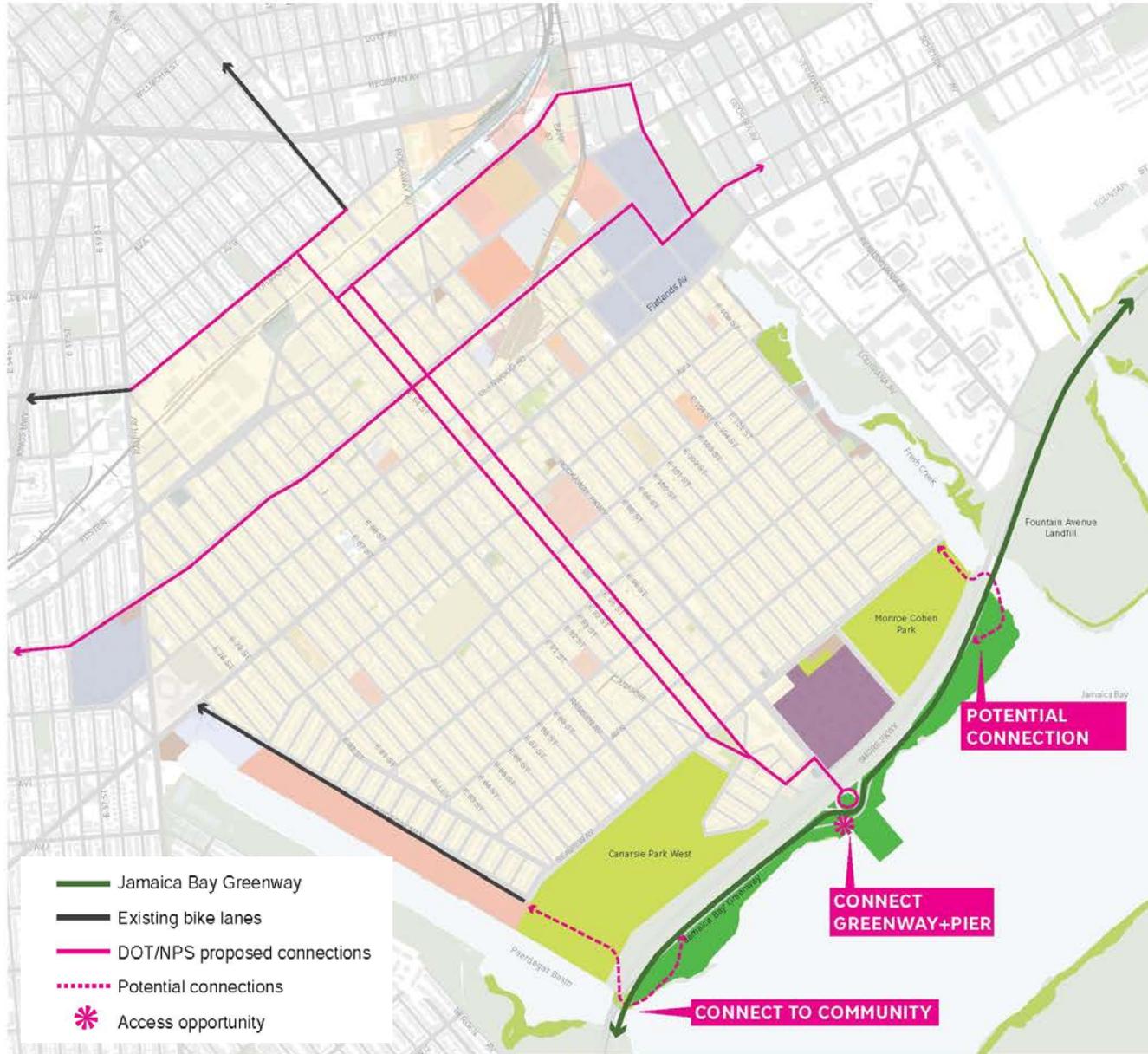
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SHORELINE ACCESS & ACTIVITY



Strategy: **Activate and enhance** access along the shoreline

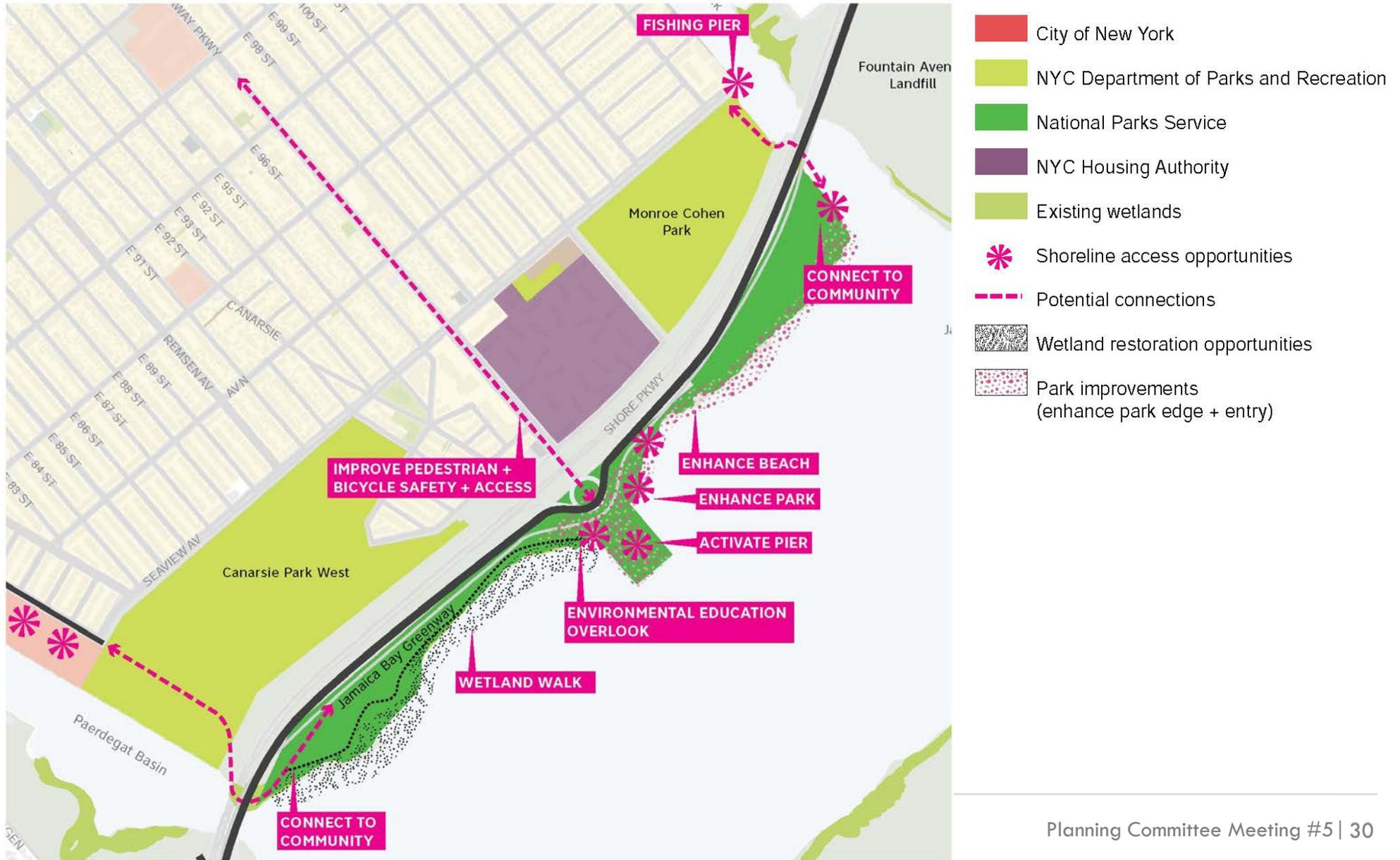
Canarsie Pier: Shoreline Access Opportunities for Cyclists



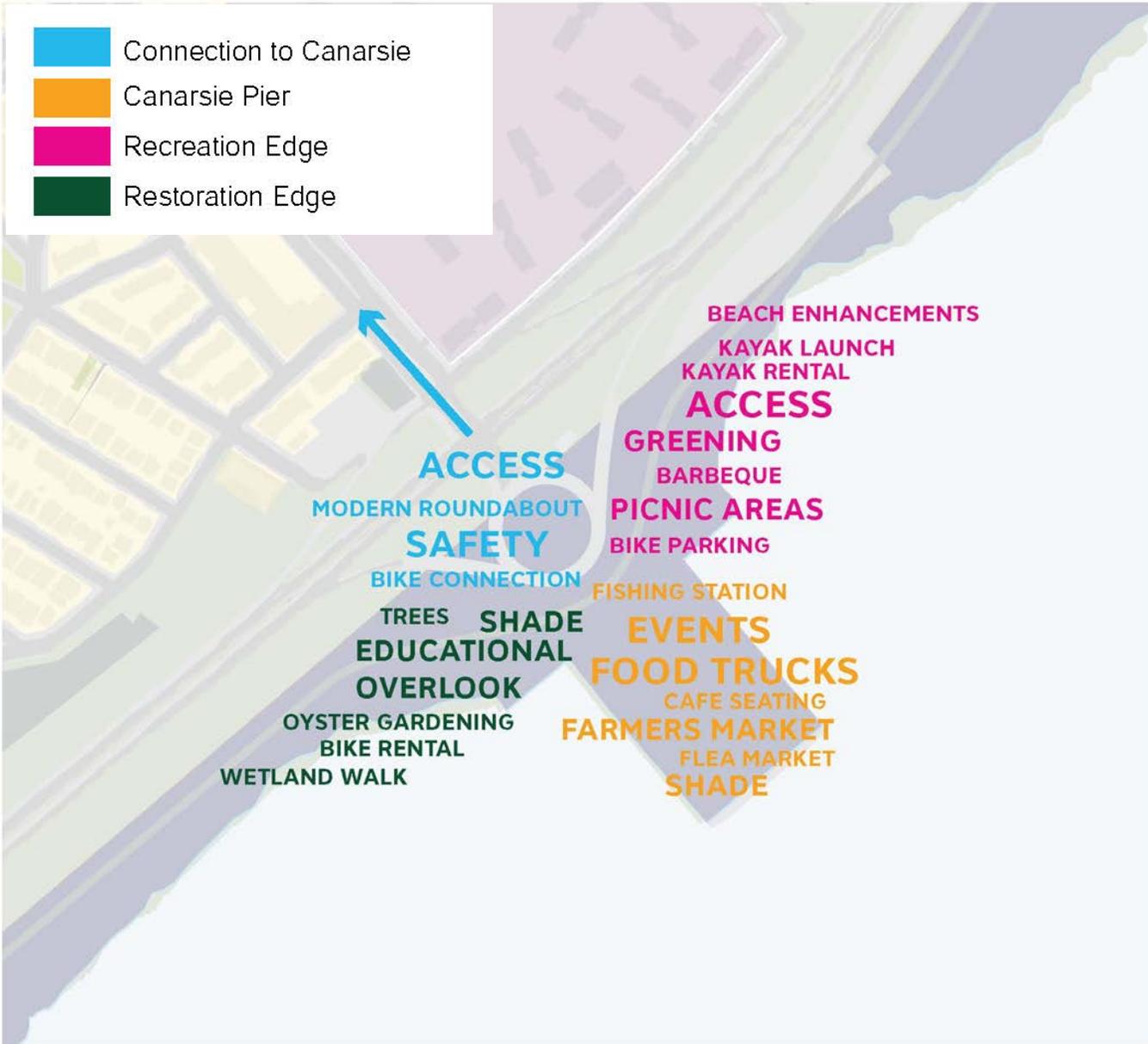
- Jamaica Bay Greenway
- Existing bike lanes
- DOT proposed bike connections
- Potential connections
- Access opportunity



Canarsie Pier: Shoreline Access & Restoration Opportunities



Canarsie Pier: Activation Opportunities



Existing Opportunities

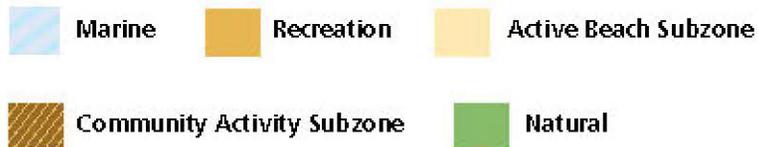
Coastal Restoration Plan: Canarsie Beach



- Identified by the Hudson-Raritan Estuary Restoration Plan, a master plan to guide ecosystem restoration in the estuary
- Approximate cost: \$26,000

Existing Opportunities

Gateway National Recreation Area General Management Plan



Goals for Canarsie Pier

- Vibrant destination for community-oriented events and water-related recreational activities
- Improved areas for fishing, kayaking and food service
- Continued and expanded picnicking and grilling activities
- Natural areas along the adjacent shorelines
- Explore waterborne transportation
- Coordinate with NYC agencies on programming, transportation, and management
- No projects or associated costs at this point

Potential Shoreline Activity & Access Approaches

Key Components

- Aligning coastal protection and shoreline access projects
- Leverage regional plans
- Enhance and encourage multi-modal access to Canarsie Pier
- Create multiple access points, highlighted by one central “gateway”
- Link activity programming with wetland restoration along the basins

Questions to consider

- What are the issues around access today? How would you like to access the shoreline (bike/walk/drive)? Where are there opportunities for improved access?
- What types of activities would you like to see along the shoreline?
- Which existing programs and activities are well used and would you like to maintain? Are there new activities or programs you would like to see added?
- What other ideas or concerns do you have regarding activating the shoreline (e.g. Canarsie Pier safety)?
- How do these access ideas align with (or conflict with) coastal protection ideas?

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Economic Development



Strategy: **Strengthen** economic resiliency

Economic Development in Canarsie

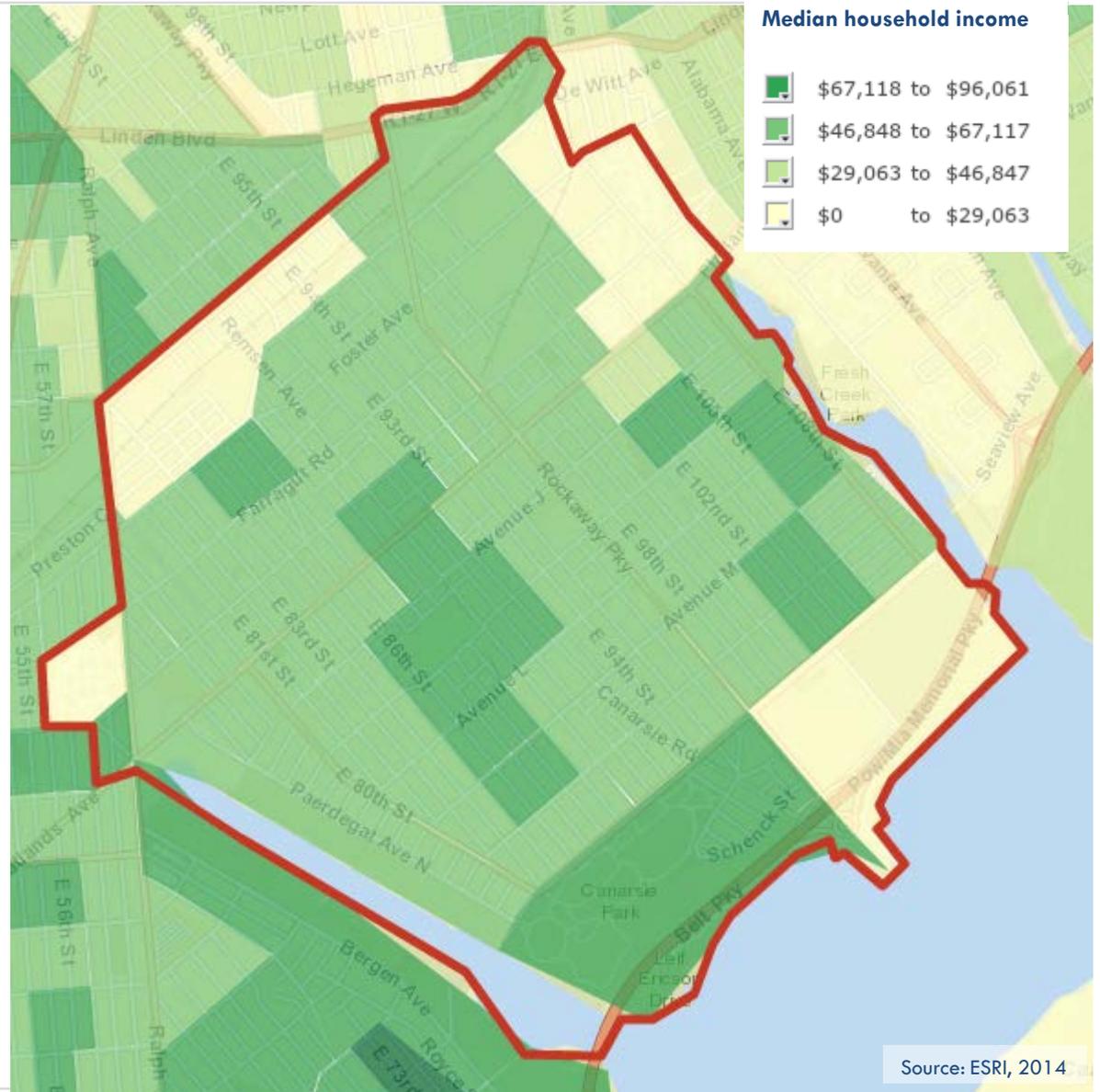
How can we strengthen the economic resiliency of Canarsie?

- Improve **access to jobs**, ensuring the Community has an ability to maximize the investments being made through resiliency projects
- Encourage the growth of an **entrepreneurial ecosystem** for very small businesses
- Facilitate the restoration of **vibrant retail corridors** to serve the Community



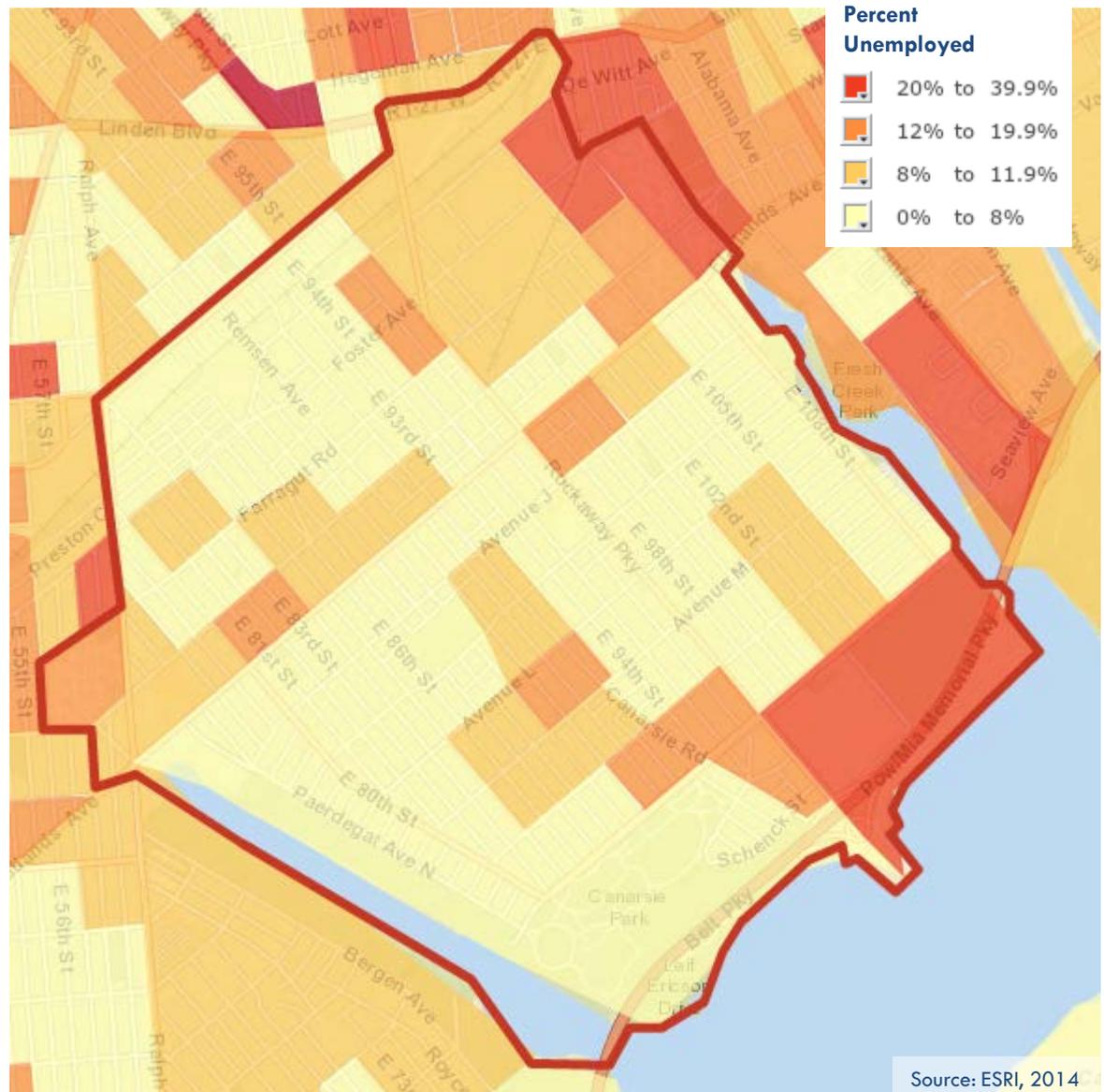
Canarsie's Economy: Incomes

The median income (at \$54,900) is generally in line with NYC and NY State, with pockets of low income households along the boundaries of the Community



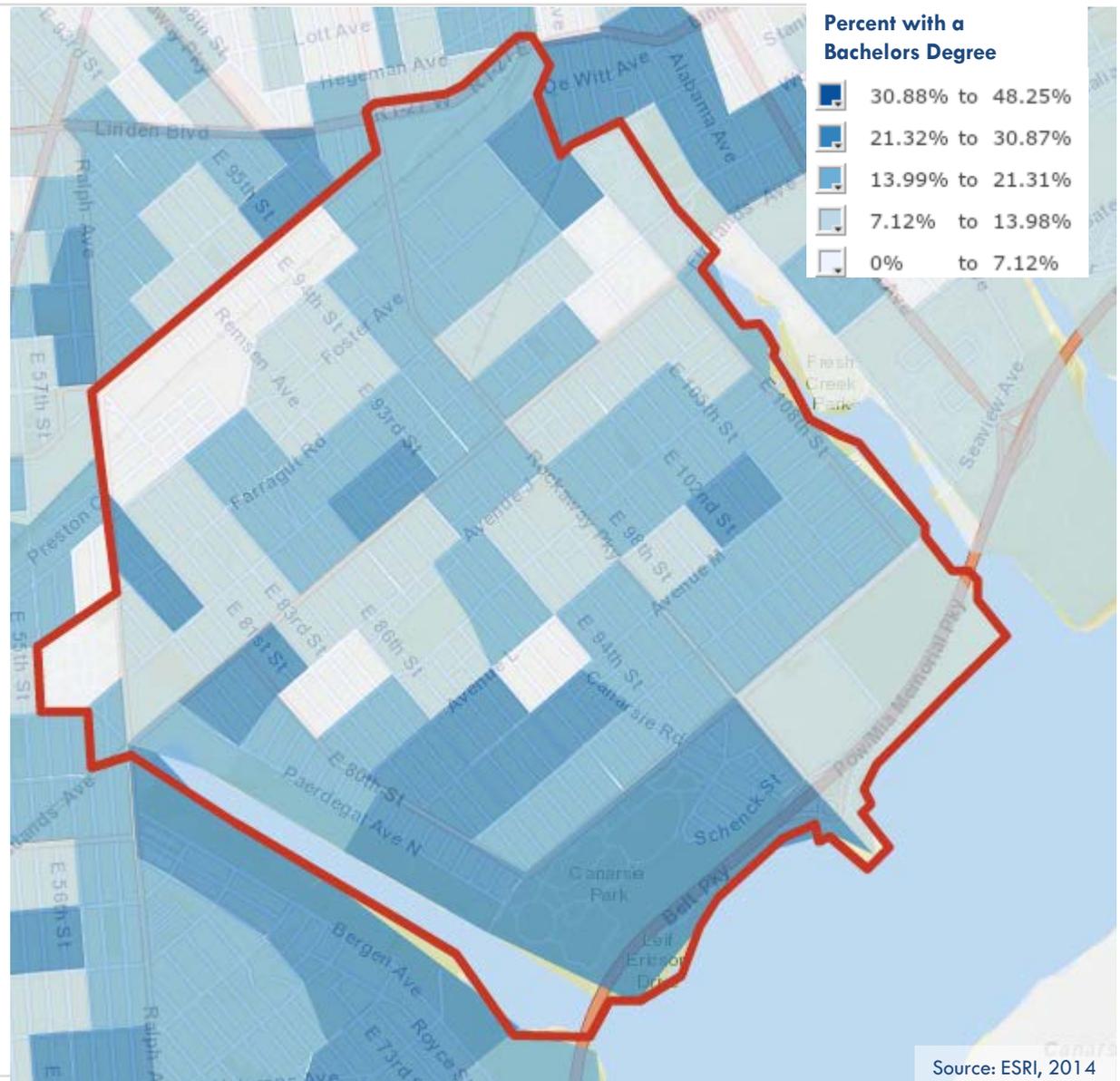
Canarsie's Economy: Unemployment

Unemployment rates are also close to the overall NYC rate (Canarsie at 7.7% and NYC over 8%), with pockets of very high unemployment



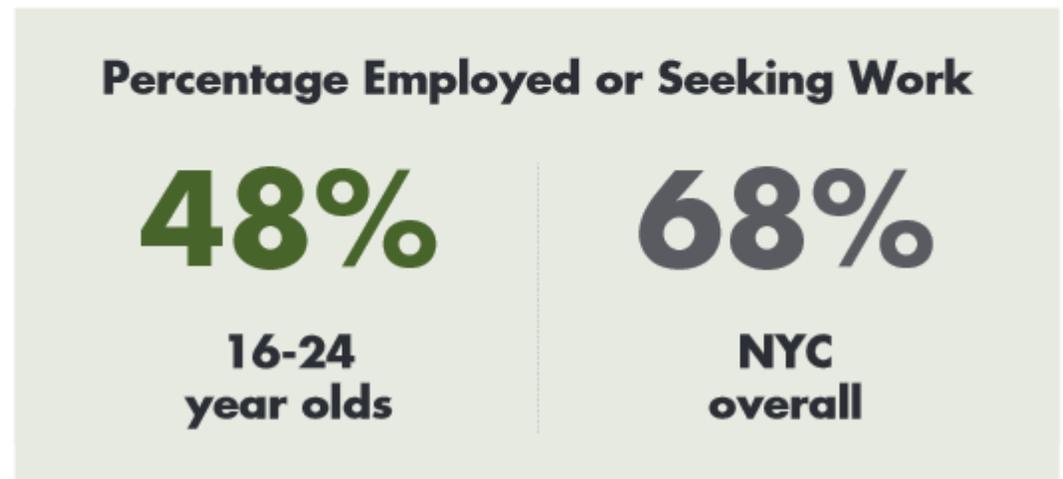
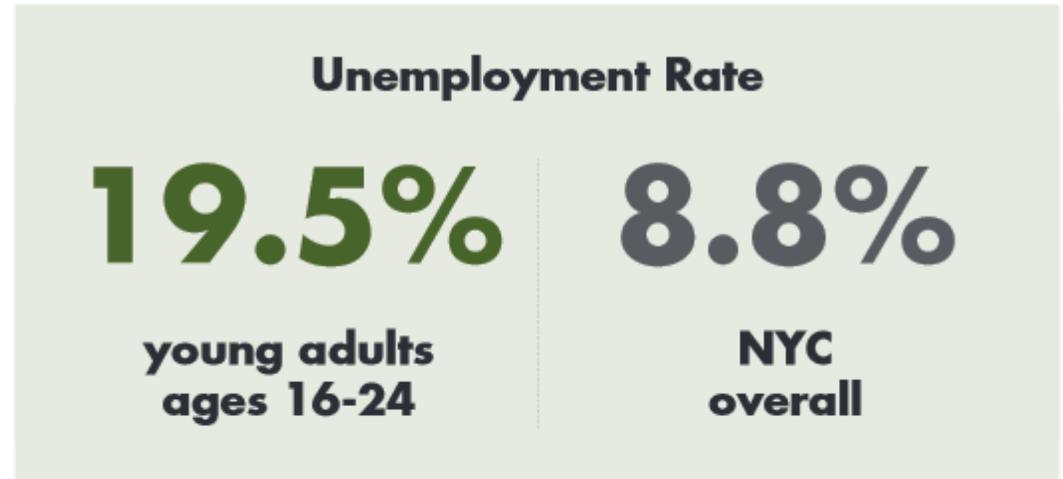
Canarsie's Economy: Education

Canarsie has a higher percentage (85%) of high school graduates than NYC, but a lower rate of college graduates (24%), representing a gap that can be filled.



Canarsie's Economy: Youth Employment

Youth unemployment is a major problem in NYC, an issue that directly impacts the present and future earning potential of Canarsie's **14,000 youth** (approximately 15% of pop.) who are between the ages of 16-24.



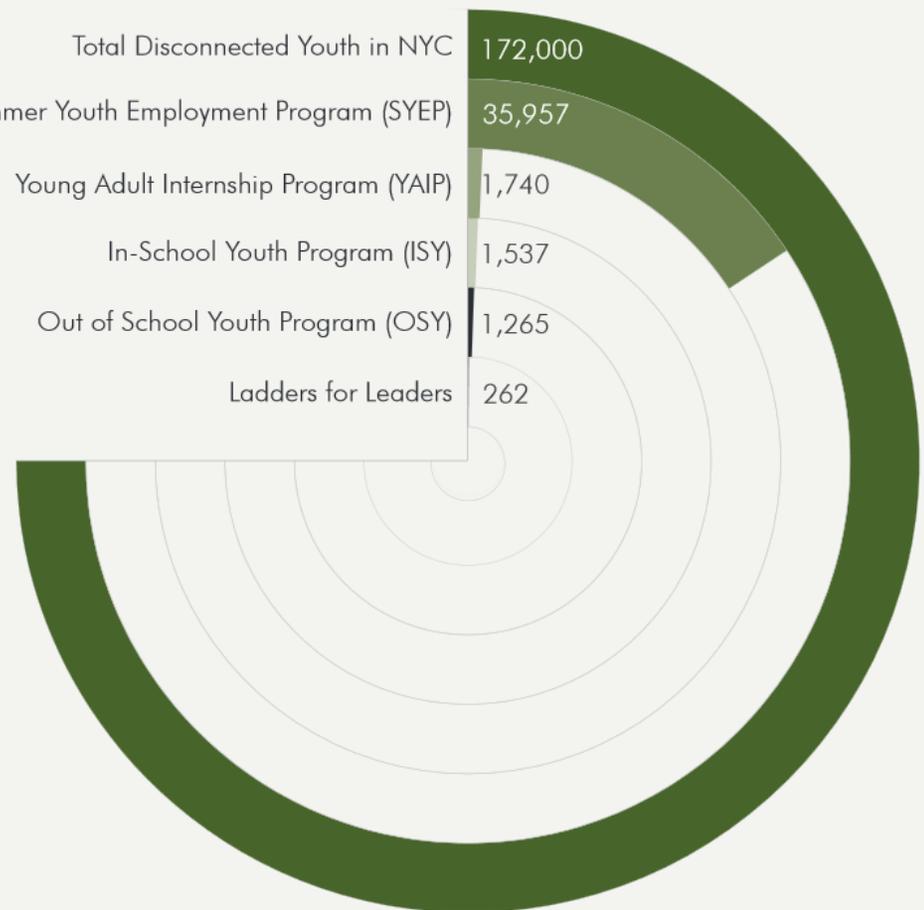
Source: Center for an Urban Future

Canarsie's Economy: Youth Employment

Across the city, youth workforce programs are reaching **less than 5%** of disconnected youth – those who are neither working or in school.

Local providers include Brooklyn-based organizations, such as CAMBA and Sesame Flyers, but these programs can be more tailored and supported.

Scale of Youth Workforce Programs Not Close to Meeting Demand



Source: NYC DYCD. Enrollment figures for all programs are for the 2014 fiscal year. Not all youth participating in these programs are disconnected; the comparison to the number of disconnected youth is made to show how small these DYCD programs are compared to the need.

Approach #1: Workforce development

Create a workforce development program around health care/EMT's, electrician certification, as well as technical certification for resiliency audits and improvements, specifically targeting the youth.

This could be an offshoot of a “Canarsie Corps” paid youth program which would train youth and would work in the community on improving its resiliency.

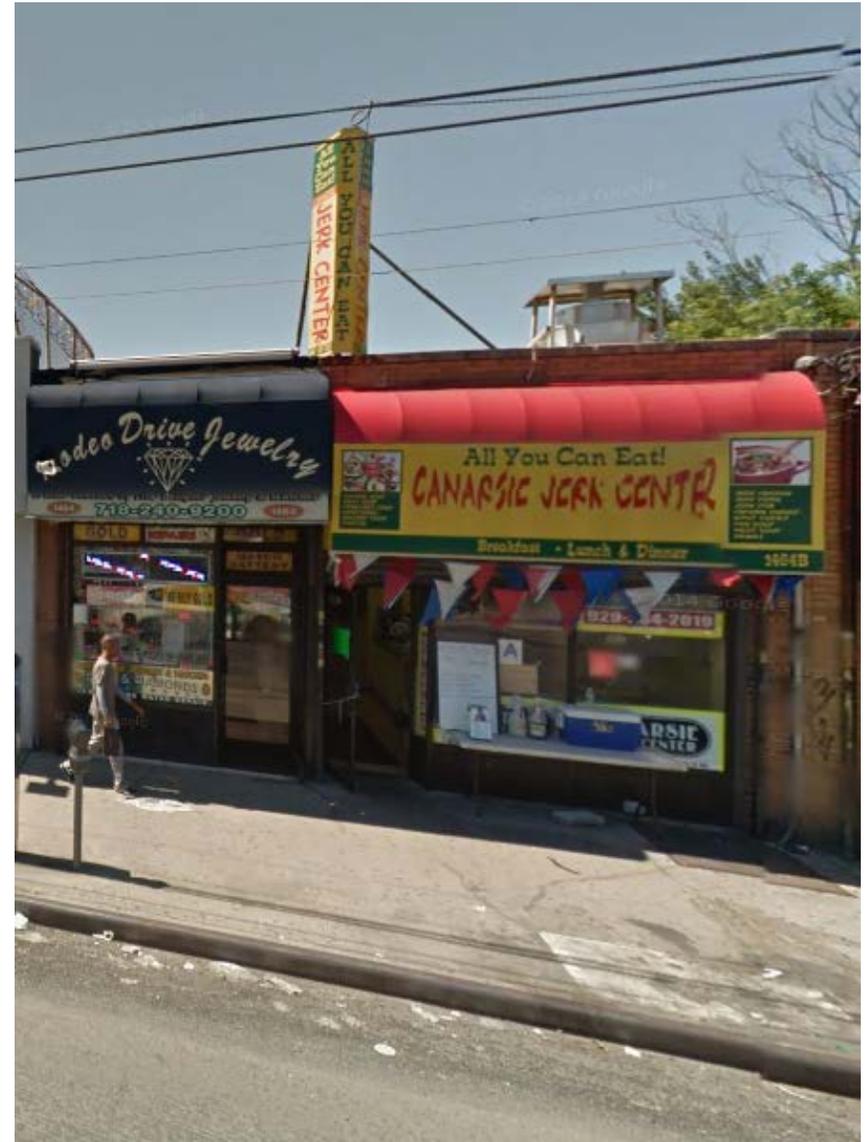
Questions to consider

- How do you want to tailor these programs? Who should be eligible? Who could run these?
- What other jobs programs would you like to see?



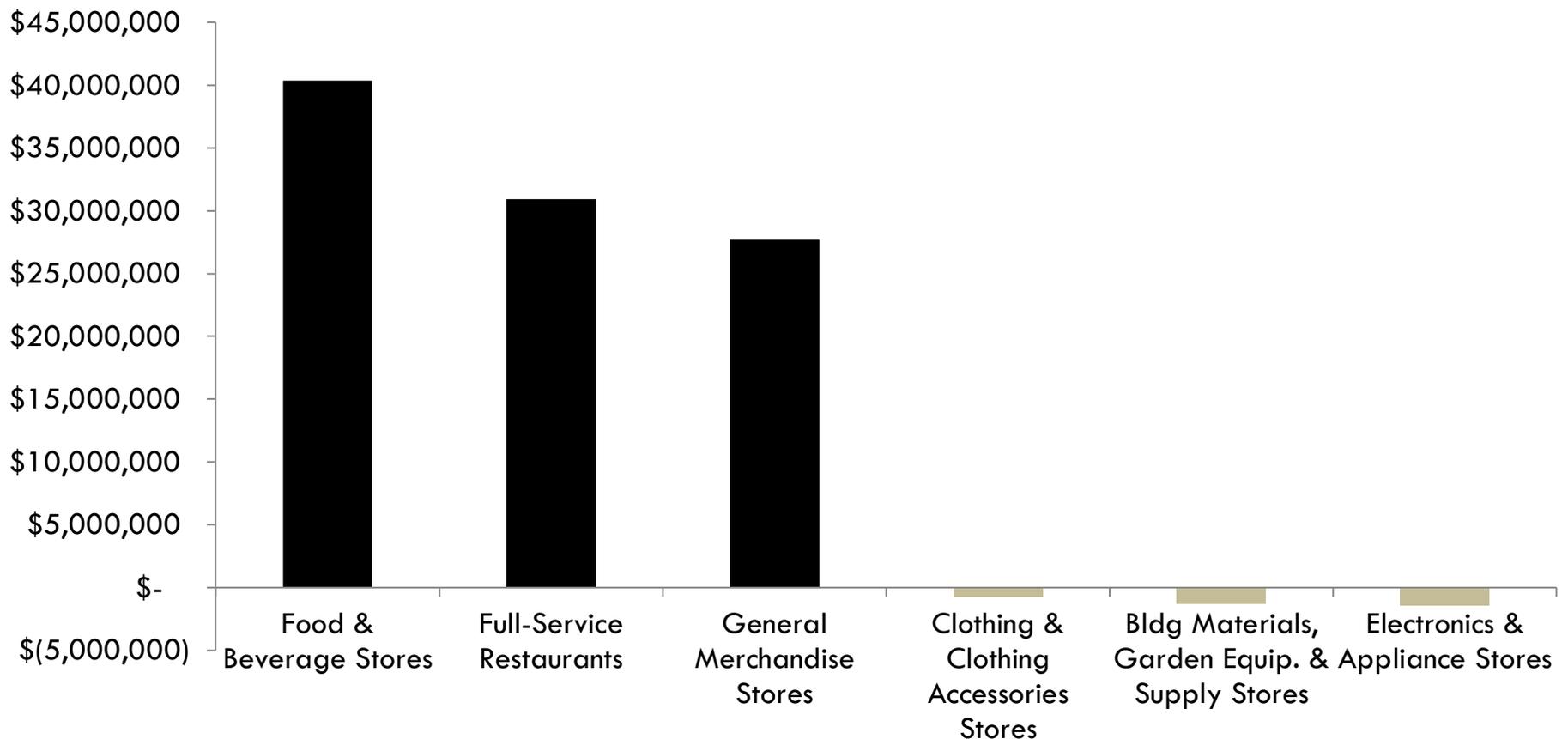
Breakdown of Retail Employment in Canarsie

- **1,900** retail jobs (13% of all Canarsie jobs, the second highest sector)
- Over **\$500M** in annual sales
- Contributes to neighborhood character
- Provides services and enhances resident & worker quality of life
- Can play an active role in recovery efforts immediately following a storm



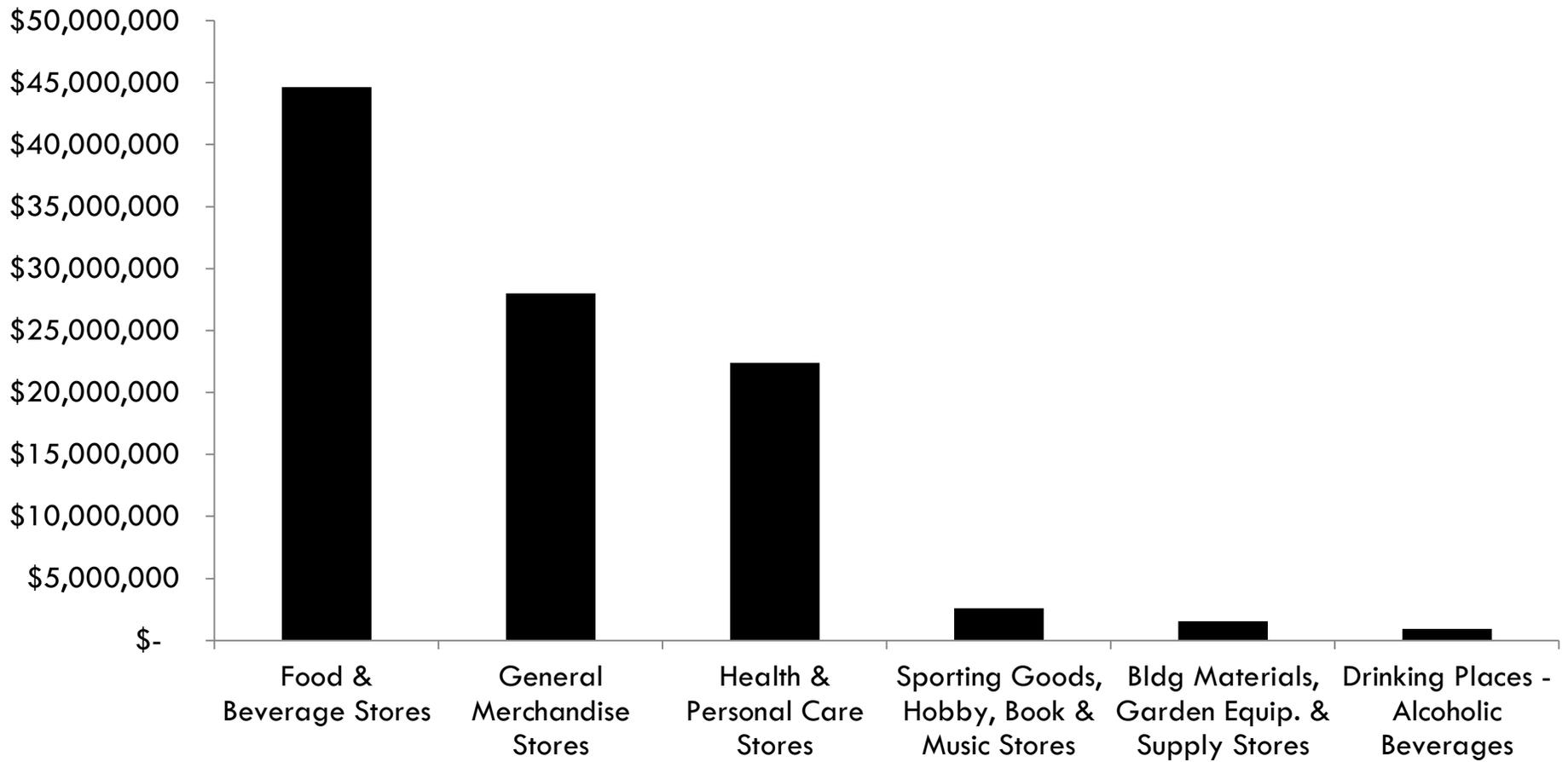
Demand exists for certain retail types, yet vacancies exist, showing that Canarsie's retail needs additional support

Rockaway Parkway Unmet Demand

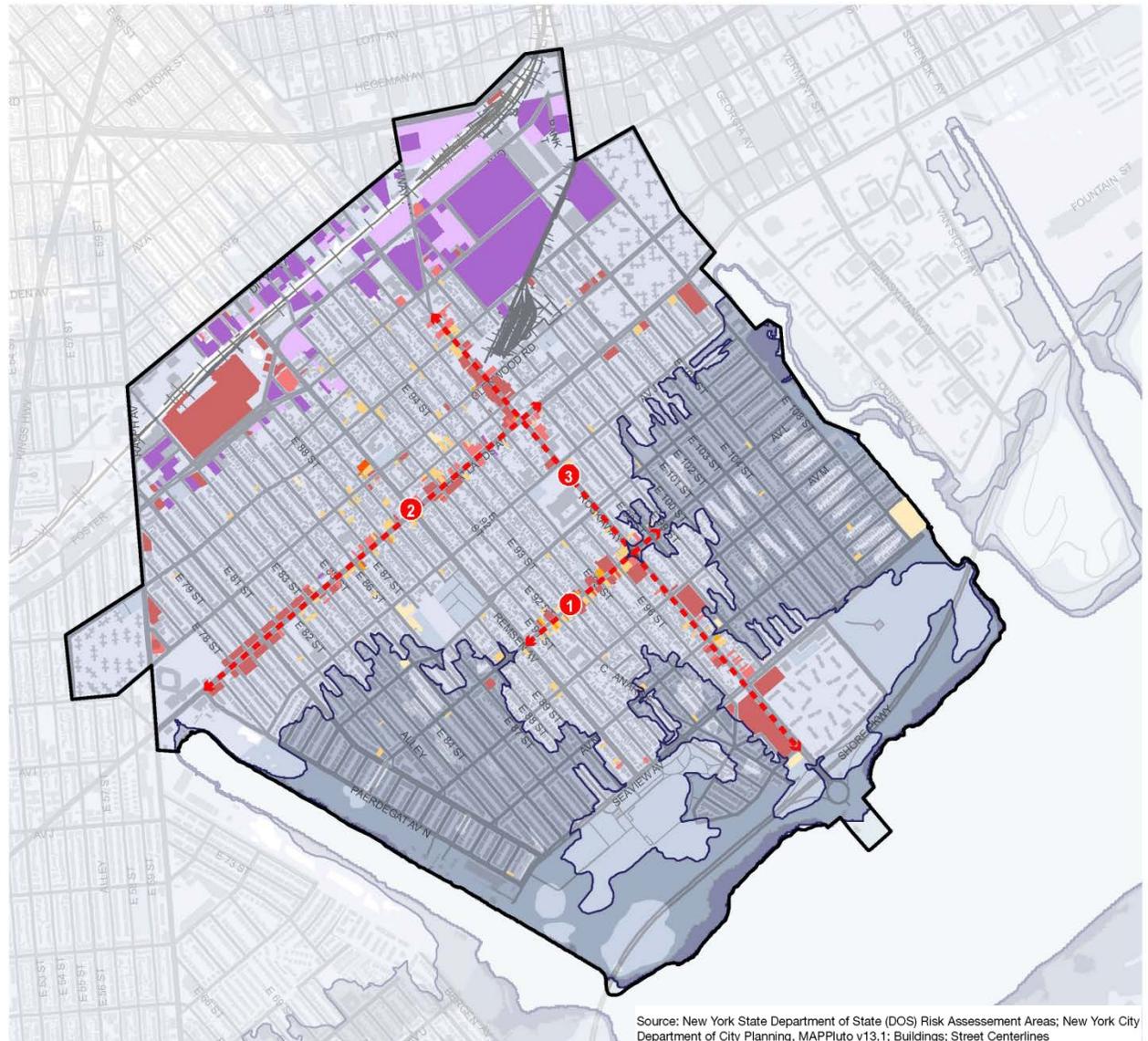


Demand exists for certain retail types, yet vacancies exist, showing that Canarsie's retail needs additional support

Avenue L Unmet Demand

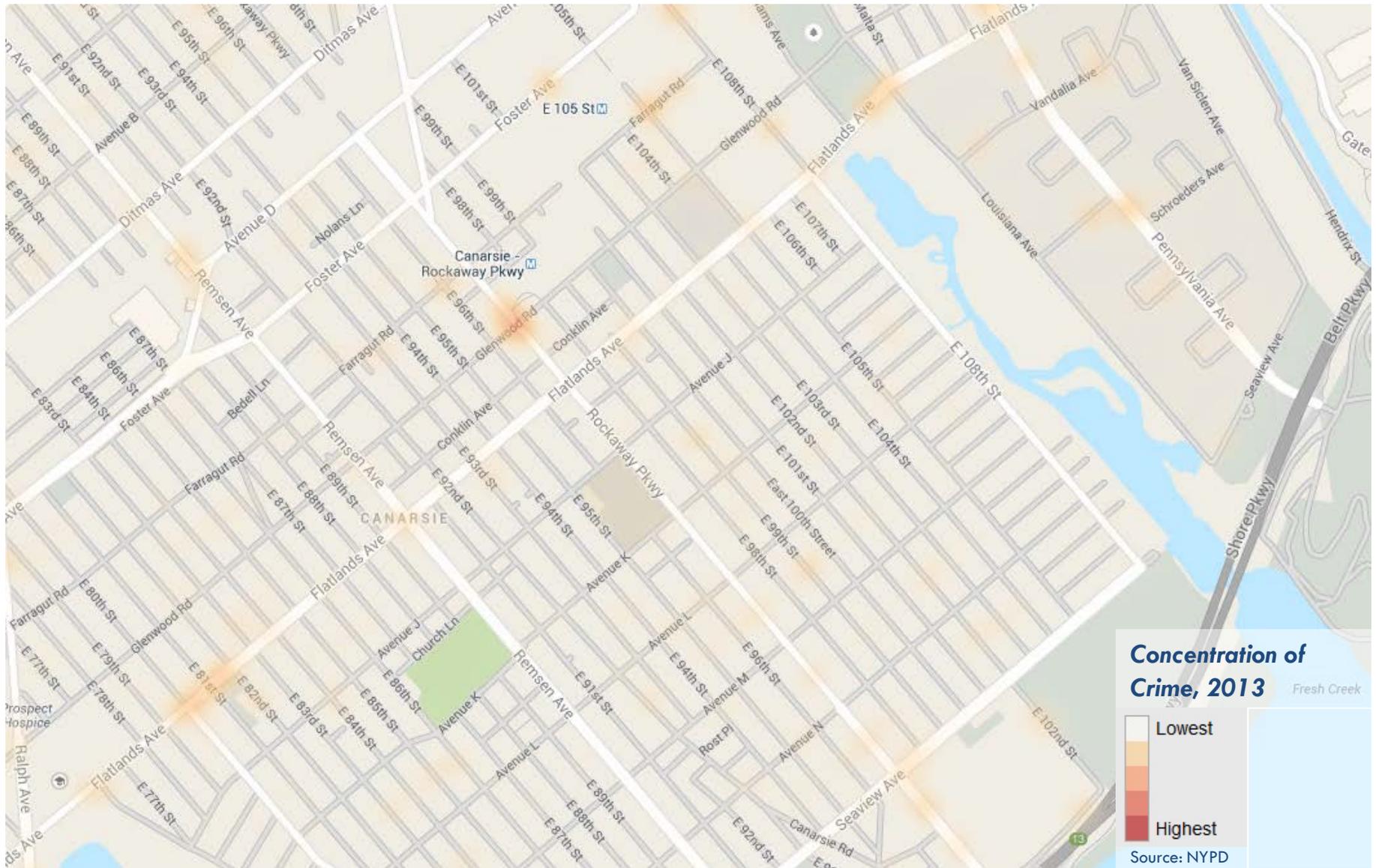


Almost all retail is out of the floodplain, providing an opportunity to leverage these corridors during emergencies



Source: New York State Department of State (DOS) Risk Assessment Areas; New York City Department of City Planning, MAPPluto v13.1; Buildings; Street Centerlines

Safety is an issue, with pockets of crime around retail centers



Approach #2: Support the development of vibrant, mixed-use corridors

Establish a vision for lively mixed use corridors, with more support for local businesses

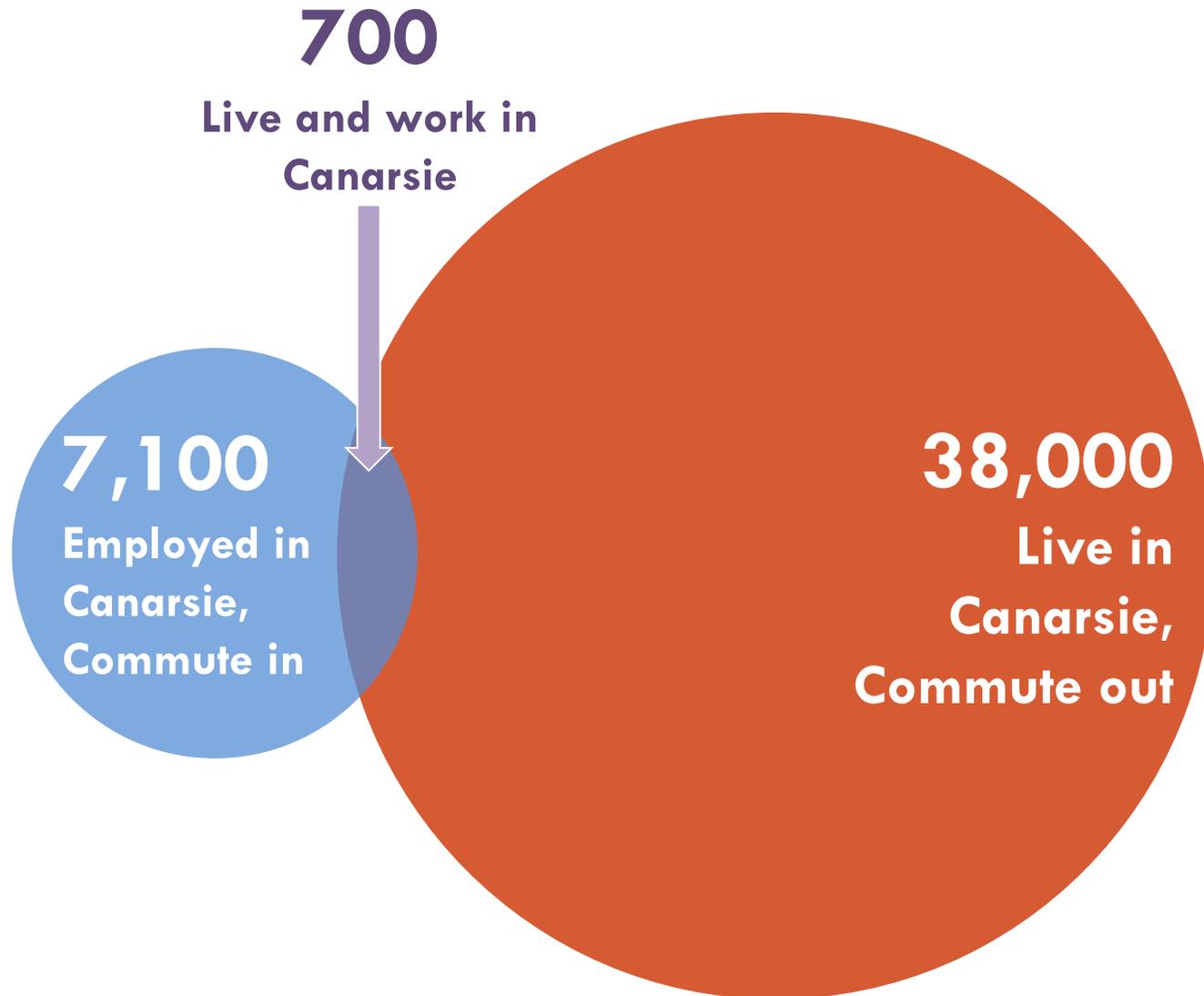
Incorporate resilient streetscaping with drainage improvements and better lighting that is not grid dependent

Questions to consider

- Do you think mixed-use corridors could help to support these businesses?
- Where would you target for resilient streetscaping?



Very Few People Live & Work in Canarsie



Source: US Census, 2011

Very Few People Live & Work in Canarsie

This has considerable implications for the transit options available to the Community (to be explored at next meeting)

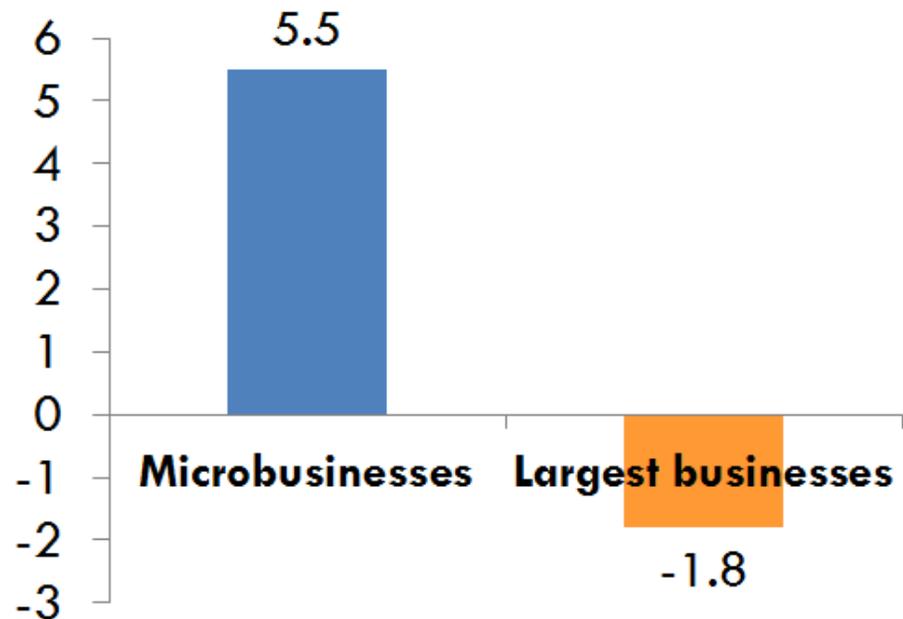


Microbusinesses in Canarsie can improve individual economic opportunity

Microbusinesses, those with 5 or fewer employees, can help strengthen both the economic resiliency in Canarsie and improve the earnings of residents who work in the neighborhood.

Microbusiness are a growth sector nationwide

Percent change in employment in the US
2004-2010



Source: U.S. Small Business Administration, California Association for Micro Enterprise Opportunity

Approach #3: Provide a platform for entrepreneurial growth in Canarsie

This can be tied to the activation of the Pier, incorporating a seasonal market for local businesses and microbusinesses to grow through increased exposure.

Questions to consider

- Where would you like such a market to be located?
- What kind of infrastructure would be needed?
- What kind of supportive services and trainings would help grow these businesses?



Economic Development



1) Create workforce development programs for resiliency/"Canarsie Corps"

- How do you want to tailor these programs?
- Who should be eligible? Who could run these?
- What other jobs programs would you like to see?



2) Foster vibrant, mixed-use retail corridors

- Do you think mixed-use corridors could help to support these businesses?
- Where would you target for resilient streetscaping?



3) Provide a platform for micro-enterprise

- Where would you like such a market to be located?
- What kind of infrastructure would be needed?
- What kind of supportive services and trainings would help grow these businesses?

Economic Development



Are there other economic development projects you would like to see in the Community?

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Next Steps

1. DEP drainage meeting Thursday, October 2nd
2. Draft initial list of Proposed & Featured Projects due Friday, October 3rd
3. Committee meeting #6: Monday, October 6th
 - Emergency preparedness & relief centers
 - Power
 - Housing
 - Transportation
 - Drainage (recap)
 - Follow-up on project research from tonight

Questions?



Thank you.

