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

**Deliverables**

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**Legend**

- **Planning Committee Meeting**
- **Public Meeting**
- **Deliverable Due Date**
NY Rising Community Reconstruction Goals and Components

Community Vision, Goals, Risk, Assets, Issues, Needs, & Opportunities

Implementable projects across six recovery functions

Community Reconstruction Plan

Strategies
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

**Proposed Project**
- Appropriate scale and cost
- Short- to medium-term
- Can be fully funded with CDBG-DR allocation

**Featured Project**
- Appropriate scale and cost
- Short- to medium-term
- An initial study or discrete phase can be funded with CDBG-DR allocation and/or another identified funding source
- May require other funding for full implementation

**Recommendation**
- City/state/federal entities already working to address
- Policy recommendation
- Short-, medium- or long-term
For example:

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

**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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Public Meeting #2 debriefing

Over 100 participants!
Strategy Votes

- Improve wastewater and stormwater management
- Address existing and future vulnerabilities from coastal flooding, using natural systems when possible
- Make homes more physically and financially resilient
- Improve safety and security of Canarsie
- Build and coordinate local capacity for emergency response, leveraging existing assets where possible, to...
- Engage youth in building a more resilient Community
- Integrate alternative power sources and harden existing power sources
- Improve access between residents and economic and natural resources
- Strengthen economic corridors and create jobs
- Activate and enhance access along the shoreline
- Improve access to comprehensive health services
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

Strategy: **Reduce vulnerability** to coastal flooding and sea level rise
What are we protecting Against? 
Coastal Hazards

Event Based Hazards: Coastal Storms  
Gradual Hazards

Event Based Hazards: 100 and 500 year storms
Other Hazards: 10 and 50 year storms, sea level rise, & erosion
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
- Berms
Protecting Against Frequent Storms, Sea Level Rise, & Erosion
Shoreline Opportunities
Protecting Against Erosion
Ongoing Projects and Identified Opportunities in the Area

Planning Area
- Limit of moderate wave action (1'-3' waves)

Elevation
- < 2 (approx. MHW)
- 2 - 5 (approx. MHW = 3' SLR)
- 5 - 6.7 (approx. 10 year storm)

Hudson-Raritan Estuary Comprehensive Restoration Plan
- Comprehensive Restoration Plan Sites

Canarsie Park Wetland & Forest Restoration
Canarsie Beach
Paerdegat Basin
Fresh Creek

New York City Department of City Planning, MAPPluto v15.1; 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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SHORELINE ACCESS & ACTIVITY

Strategy: Activate and enhance access along the shoreline
Canarsie Pier: Shoreline Access Opportunities for Cyclists
Canarsie Pier: Shoreline Access & Restoration Opportunities

- City of New York
- NYC Department of Parks and Recreation
- National Parks Service
- NYC Housing Authority
- Existing wetlands
- Shoreline access opportunities
- Potential connections
- Wetland restoration opportunities
- Park improvements (enhance park edge + entry)
Canarsie Pier: Activation Opportunities

- Connection to Canarsie
- Canarsie Pier
- Recreation Edge
- Restoration Edge

ACCESS
- MODERN ROUNDBOUGHT
- SAFETY
- BIKE CONNECTION

BEACH ENHANCEMENTS
- KAYAK LAUNCH
- KAYAK RENTAL
- ACCESS
- GREENING
- BARBEQUE
- PICNIC AREAS
- BIKE PARKING

EVENTS
- FISHING STATION
- FOOD TRUCKS
- CAFE SEATING
- FARMERS MARKET
- FLEA MARKET
- SHADE
- WETLAND WALK
- OYSTER GARDENING
- BIKE RENTAL
- EDUCATIONAL
- OVERLOOK

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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
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
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.

Source: ESRI, 2014
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.

### Unemployment Rate

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<td>Young adults ages 16-24</td>
<td>19.5%</td>
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<tr>
<td>NYC overall</td>
<td>8.8%</td>
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### Percentage Employed or Seeking Work

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<th>Segment</th>
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<tr>
<td>16-24 year olds</td>
<td>48%</td>
</tr>
<tr>
<td>NYC overall overall</td>
<td>68%</td>
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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

- Total Disconnected Youth in NYC: 172,000
- Summer Youth Employment Program (SYEP): 35,957
- Young Adult Internship Program (YAIP): 1,740
- In-School Youth Program (ISY): 1,537
- Out of School Youth Program (OSY): 1,265
- Ladders for Leaders: 262

Sources: 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.
Demand exists for certain retail types, yet vacancies exist, showing that Canarsie’s retail needs additional support.
Almost all retail is out of the floodplain, providing an opportunity to leverage these corridors during emergencies.
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

700
Live and work in Canarsie

38,000
Live in Canarsie, Commute out

7,100
Employed in Canarsie, Commute in

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 2\textsuperscript{nd}

2. Draft initial list of Proposed & Featured Projects due Friday, October 3\textsuperscript{rd}

3. Committee meeting #6: Monday, October 6\textsuperscript{th}
   - Emergency preparedness & relief centers
   - Power
   - Housing
   - Transportation
   - Drainage (recap)
   - Follow-up on project research from tonight
Questions?
Thank you.