



Southeast Brooklyn Waterfront Planning Committee Meeting #7

November 5, 2014

Agenda for Planning Committee Meeting #7

1. **Preliminary Proposed Project list** **6:30-6:40pm**
2. **Review of Proposed Projects** **6:40-9:20pm**
 - Emergency Preparedness and Response
 - Housing
 - Economic Development
 - Coastal Protection
 - Stormwater Management
 - Power
3. **Next steps** **9:20-9:30pm**

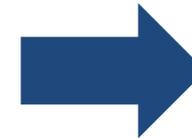
Project development and voting

Step #1: Develop and confirm list of projects

Information
around project
concepts and
considerations



Follow-up with
additional research,
based on Committee
feedback

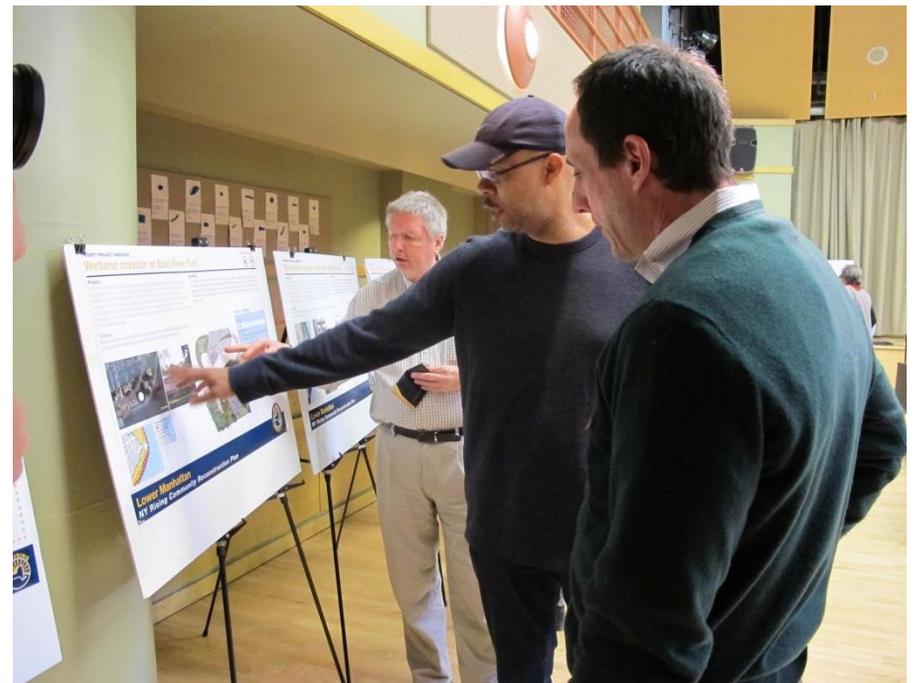
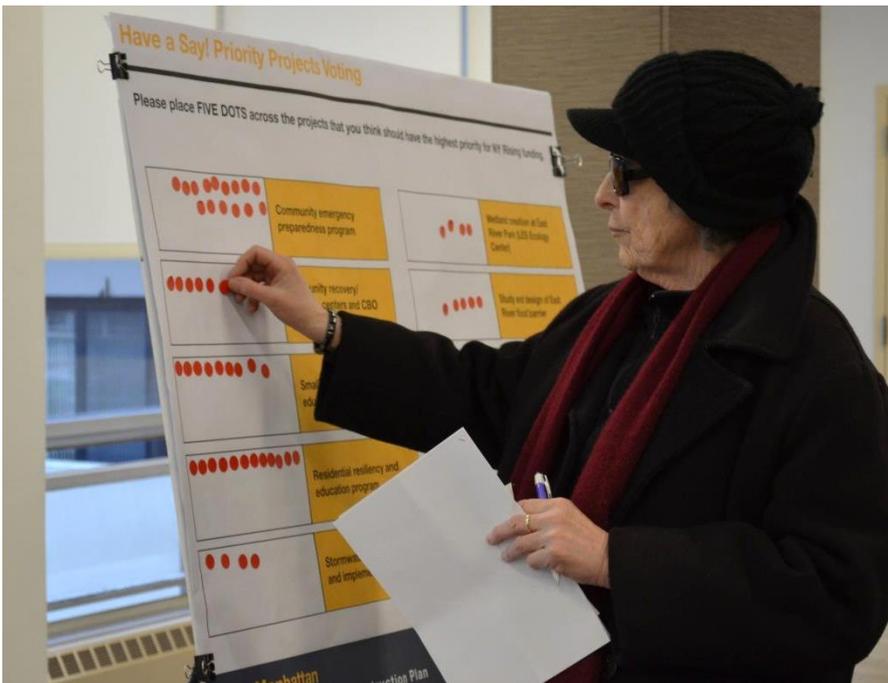


Finalize list of
project ideas to
be presented to
the public at PE#3

Project development and voting

Step #2: Present projects to the public at PE#3 (Nov. 12)

PE#3 Event from NYRCR Round I



Project development and voting

Step #3: Committee votes on projects to propose for CDBG-DR funding (Nov. 19)

Sample ballot from NYRCR Round I Community



**Rockaway West
Community Reconstruction Plan
Ballot**

This is your ballot for the submission of priority projects to New York State. Please select yes, no or abstain for every project, save the document, and see kmatheny@hraadvisors.com, bcalabrese@hraadvisors.com, cmuller@stormrecovery.ny.gov

YES/NO/ABSTAIN	PROJECT	BRIEF DESCRIPTION
	(A) Implement Targeted Coastal Protection at Beach 88th Street	Capital costs for raised bulkhead, wetland restoration, and floodwalls/berms
	(B) Drainage Projects	Capital costs for 50 bioswales
	(C) Create Rockaway West Relief Center Hub(s)	Capital hardening costs and programming expenses for two years
	(D) Create Rockaway West Relief Satellites	Capital hardening costs and programming expenses for two years
	(E) Support Long-Term Ferry Operations	Operating expenses for two years (subject to revision)
	(F) Create a Rockaway Bike Share Program	Capital hardening costs and programming expenses for two years
	(G) Create Bus Circulator Service	Operating expenses for two years (subject to revision)
	(H) Streetscape Improvements at B108th Street & Beach Channel Drive	Capital hardening costs and programming expenses for two years
	(I) Build Harbor Park at B108th Street	Joint study with Five Towns to study road improvements along Rt. 878
	(J) Support National Grid Site Redevelopment	Operations expenses for workforce development programs, including emergency preparedness training
	(K) Issue RFP for Expansion of Health Services	Capital costs for infrastructure and two years of operating costs

Project list for discussion

Emergency Preparedness and Response

- 1. Community Emergency Preparedness Education Program**
- 2. Resource/Recovery Centers**
- 3. Critical Facility Upgrades Program**

Residential Resiliency

- 1. Homeowner Information and Counseling Program**
- 2. Homeowner Assistance Program**

Project list for review

Coastal Protection

- 1. Southeast Brooklyn Waterfront Coastal Protection Study**

Stormwater Management

- 1. Stormwater Capture Pilot Project(s)**
- 2. Bergen Beach Stormwater Retention System**

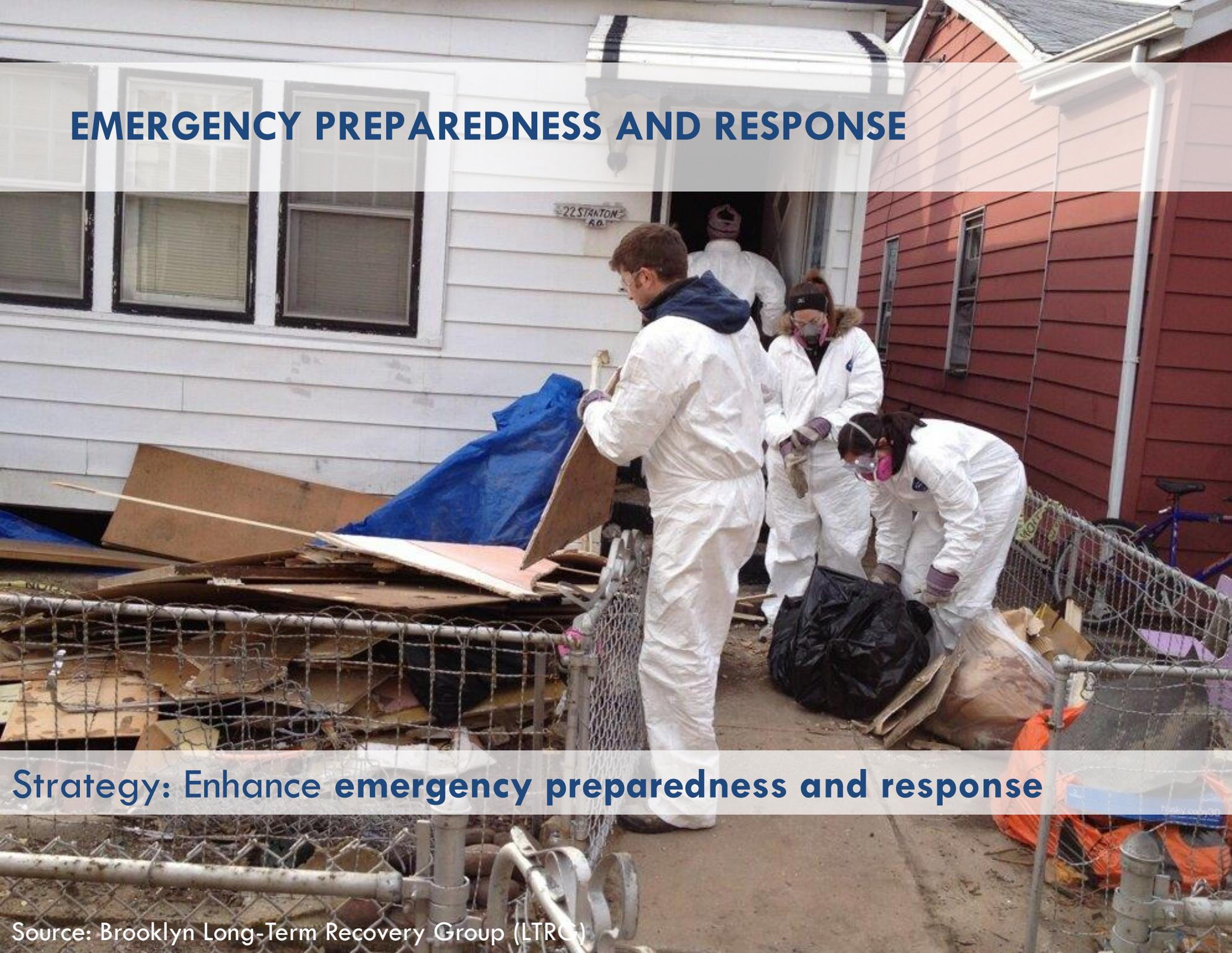
Power

- 1. Alternative Power Hotspot**

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 - **Housing**
 - **Economic Development**
 - **Coastal Protection**
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3. Next steps 9:20-9:30pm

EMERGENCY PREPAREDNESS AND RESPONSE



Strategy: Enhance emergency preparedness and response

Source: Brooklyn Long-Term Recovery Group (LTRG)

Preliminary projects and recommendations

Proposed Projects

1. Community Emergency Preparedness Program
2. Resource/Recovery Centers
3. Critical Facilities Upgrade Program

Additional Resiliency Recommendations

1. Provide High Tide/Surge Warning

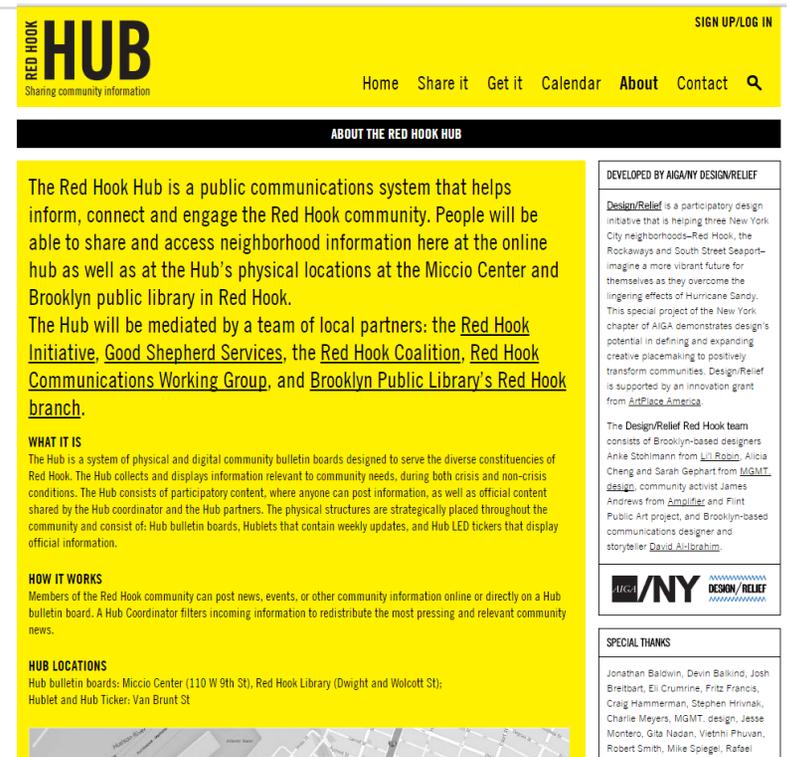
Project #1: Community Emergency Preparedness Program

Project to develop a **local emergency preparedness and response guide**, to cover:

- **Preparedness measures**
- **How to evacuate**
- **Where to go to access supplies and information**
- **Existing City resources and CERT**

Precedents:

- **Red Hook Hub** community bulletin board and Community Readiness Plan (<http://redhookhub.org/>)
- **“Go to High Ground”** guide, developed by College of Staten Island



Estimated cost:
\$50,000-\$60,000

(includes consultant time for producing guide; programming; materials production and printing)

Project #2: Resource/Recovery Centers

Recovery centers to be based in existing organizations' facilities. Could provide:

- **Resilient power**
- **Food and water**
- **Information**
- **Non-urgent medical assistance**

Organization/facility considerations:

- **Located outside of floodplain**
- **Parking lot**
- **ADA-compliant or ability to be made compliant**



Estimated cost: scalable

Each center: \$300,000-\$700,000

(includes resilient power and other hardening costs, consultant time for education/programming over 2 years)

Project #3: Critical Facility Upgrades Program

Full/partial grants to help social and health service providers make capital upgrades to enhance resiliency

Could include backup generators, flood proofing measures



Estimated cost: scalable

Example measures:

One 100kW generator, to serve a 10,000 SF building: \$350,000

Flood proofing measures (e.g., elevating mechanicals): \$80,000-\$90,000

HOUSING



Strategy: Improve residential resiliency through **education, technical assistance, and funding**

Preliminary projects and recommendations

Proposed Projects

1. Homeowner Information and Counseling Program
2. Homeowner Technical Assistance Program

Additional Resiliency Recommendations

1. Revise National Flood Insurance Program

Project #1: Homeowner Information and Counseling Program

This project would fund **educational resources** and **one-on-one counseling** on homeowner risks, resiliency improvements

Targeted to **all homeowners in the Planning Area**

Counseling services would be based at an **existing citywide or Brooklyn-based organization** with local offices



Estimated cost: \$350,000

(includes staff time, programming, and materials over 2 years)

Project #2: Homeowner Assistance Program

Project to offer **technical and financial assistance to high-risk homeowners** in the 100-year floodplain, enabling them to make improvements and lower risk

Geared at **homeowners in the 100-year floodplain**

Technical assistance could consist of **audits** by specialized engineers

Financial assistance could consist of **grants** and/or **low-cost loans** to help make recommended upgrades



Estimated cost: scalable

Technical assistance:

One audit: \$500-\$1,000/home

Financial assistance:

(Example measure) Check valve: \$1,000

Staff time, programming, and materials over 2 years: \$250,000-\$300,000

ECONOMIC DEVELOPMENT



Strategy: Improve resiliency of **commercial corridors and critical supply chains**

Preliminary projects and recommendations

Additional Resiliency Recommendations

1. Expand the Fuel NY Initiative to include more gas stations in the floodplain

COASTAL PROTECTION

An aerial photograph showing a coastal area. On the left, a multi-lane highway runs parallel to a body of water. To the right of the highway is a large green sports complex with several baseball fields, some of which are highlighted in orange. Further right is a dense residential neighborhood with many houses. The background shows a large body of water and a distant coastline under a clear sky.

Strategy: Reduce neighborhood flooding through stabilizing the coastal edge, discouraging development at at-risk locations, and mitigating any potential negative impacts of new projects.

Preliminary projects and recommendations

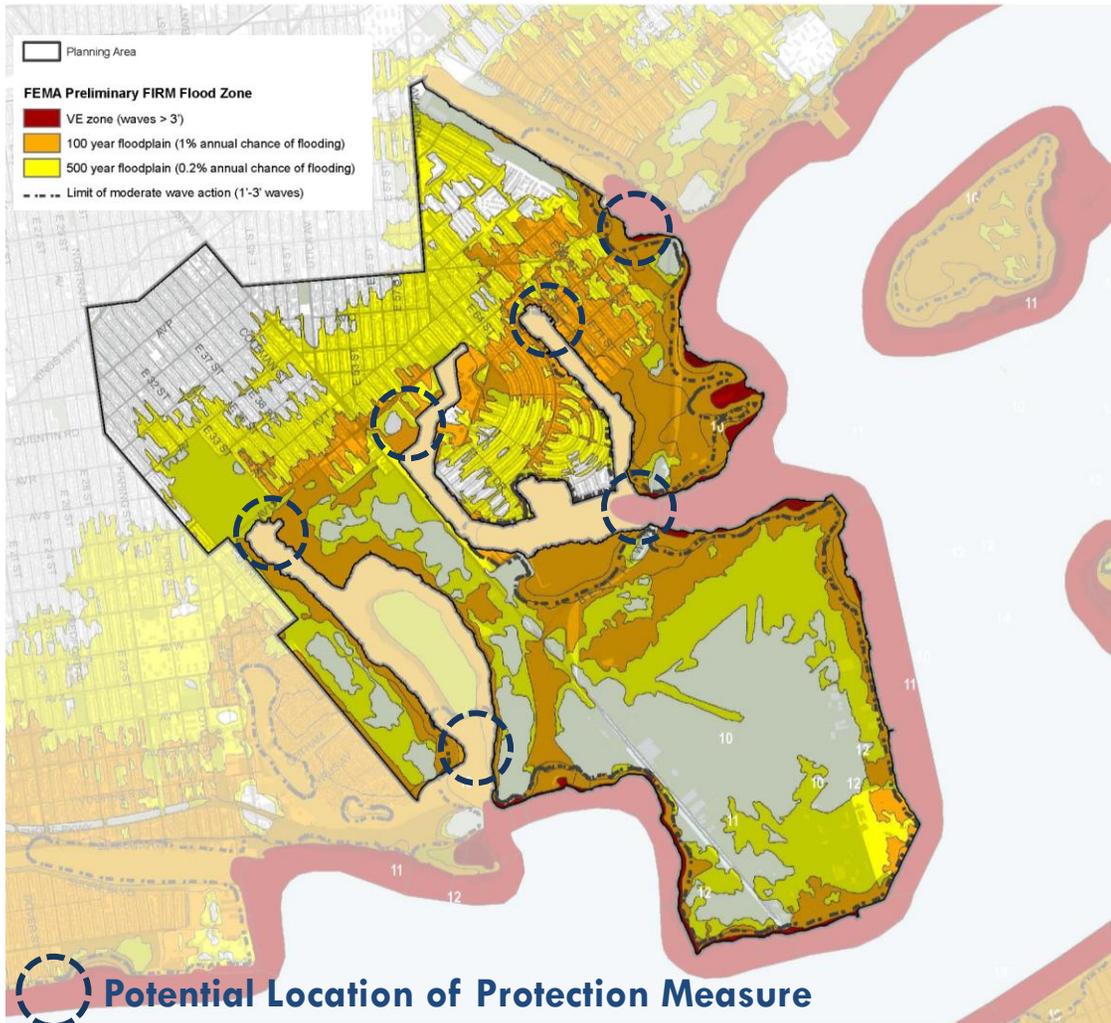
Proposed Projects

1. Comprehensive Coastal Protection Study

Additional Resiliency Recommendations

1. USACE Recommendation: Incorporate Planning Area flood protection in current studies/initiatives
2. Assess Impacts of New or Upcoming Area Projects

Project #1: Comprehensive Coastal Protection Study



Assessment of high-risk residential areas prone to flooding

Comparison, feasibility analysis, and conceptual design of potential alternatives, including berming, floodwalls, and floodgates at targeted locations

Community engagement to ensure public support of proposed alternatives

Coordination with USACE and other agencies' plans

**Estimated cost:
\$500,000**

DRAINAGE AND STORMWATER MANAGEMENT



Strategy: Improve stormwater and wastewater management to prevent flooding and backup

Preliminary projects and recommendations

Proposed Projects

1. Stormwater Capture Pilot Project(s)
2. Bergen Beach Stormwater Retention System

Additional Resiliency Recommendations

1. Assess Area Sewer System

Project #1: Stormwater Capture Pilot Project(s)

Reduce stormwater flooding at one or more targeted locations

- Target most areas where street flooding is most severe and implementation feasible
- Pilot potentially replicable techniques which might include: bioswales, rain gardens, blue or green roofs, etc.

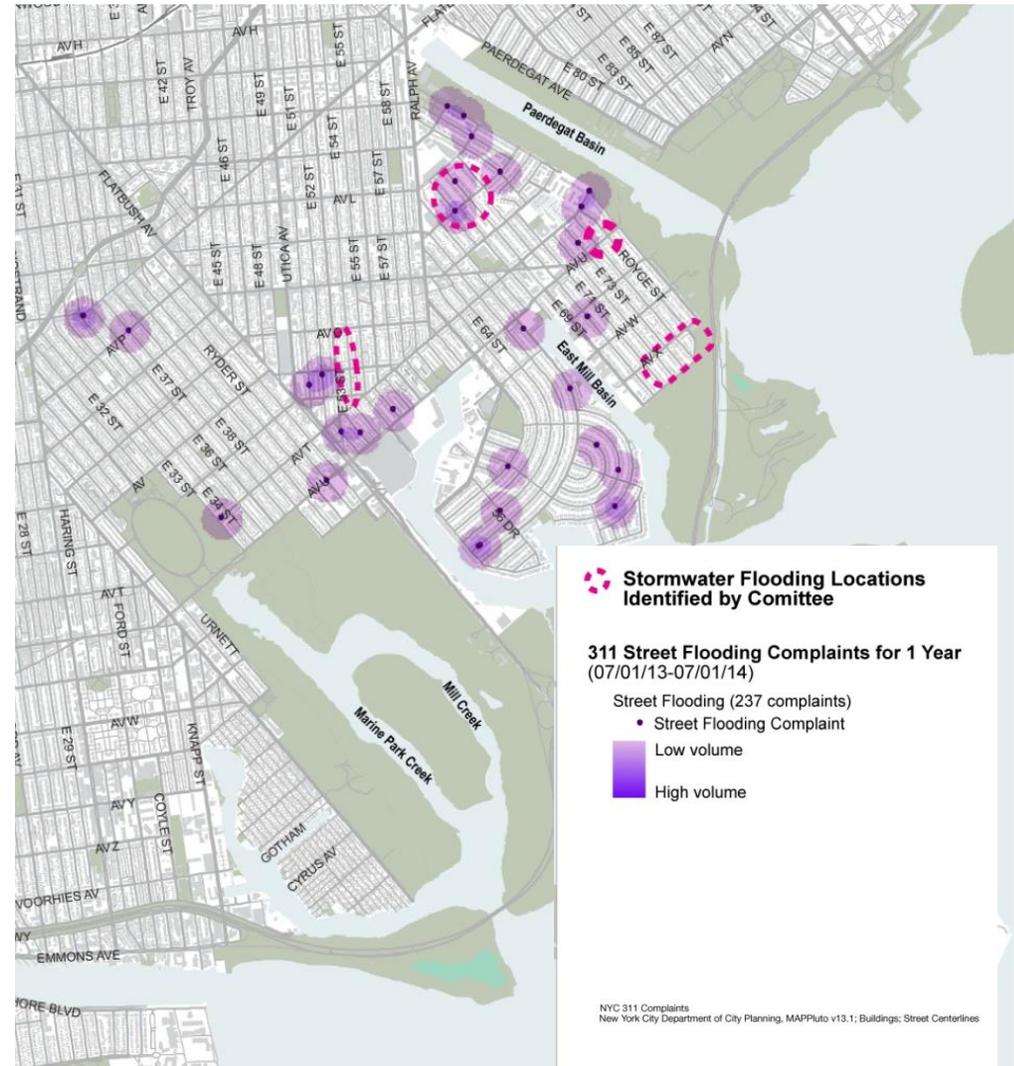
Estimated cost: scalable

Study: \$150,000

(co-sponsored with Canarsie)

Example pilot project:

Bioswale: ~\$25,000



Project #2: Bergen Beach Stormwater Retention System

Stormwater detention/retention system within a natural area of southern Bergen Beach on parkland owned by City Parks Department

System would collect and detain stormwater, releasing it into system slowly after rain event to mitigate back-up

Estimated cost:
approx. \$2M-\$4M
for excavation of a dry retention pond



POWER



Strategy: Make the power supply more resilient and redundant

Preliminary projects and recommendations

Proposed Projects

1. Alternative Power Hotspot

Additional Resiliency Recommendations

1. ConEd Recommendation: Harden Area Power Infrastructure

Project: Alternative Power Hotspot

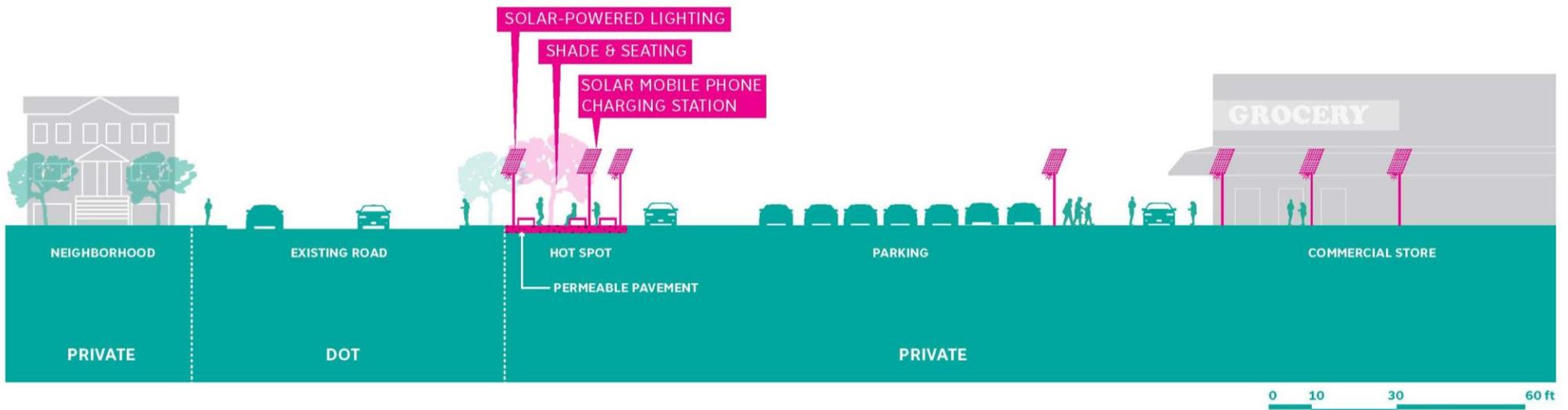
Project to **install resilient power infrastructure** within the parking lots of critical retailers in the Planning Area

Project could include:

- Lighting
- Cell phone charging station
- Stormwater capture measures to “green” the lot and capture runoff (later phases)

Estimated cost: scalable

**Each hotspot:
\$125,000-\$150,000**



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Next steps

PE#3 meeting on Wednesday, November 12

- Outreach
- Meeting format
- Boards review schedule

PC#8: project voting on Wednesday, November 19