



Staten Island East & South Shores Public Workshop #2

November 14, 2013

Introductions

Staten Island Regional Lead

- Alex Zablocki
- Claudia Filomena

New York State Planners

- Fred Landa
- Ron Rizzotti

Staten Island Planning Committee Co-Chairs

- David Sorkin
- Vin Lenza

Introductions

Staten Island Planning Committee

Co-Chairs

David Sorkin
Vin Lenza

Committee Members

NY Rising Community Reconstruction Program

Director: Jamie Rubin

NYC Lead Planner: Stephen Ridler

SI Regional Lead: Alex Zablocki & Claudia
Filomena

NY State Planners: Ken Smith & Fred Landa

Planning Team

Perkins Eastman

BFJ Planning

Louis Berger Group

Howard/Stein-Hudson -- Real Estate Solutions Group -- John V. Waters -- dLand Studios

PACO Group -- Marsh Risk Consulting -- Amman & Whitney -- VJ Associates -- Tidal Basin

Community Reconstruction (CR) Plan

Tonight's agenda

- | | |
|-------------|---|
| 7:00 | Introductions |
| 7:05 | Overview of the New York Rising Program:
<i>Key Elements of Conceptual Plan</i>
<i>Schedule</i> |
| 7:25 – 9:00 | Open House |

NY Rising Community Reconstruction Program



The Community Reconstruction Program:

Key Steps

- Identify and assess the community's key assets
- Assess the risks and vulnerabilities to future natural disasters
- Identify projects and actions – *short, medium and long-term* – to increase resilience and further economic development

The Community Reconstruction Program: *Key Elements of the Plan*

The Plan should:

- Increase resilience of the *key assets*
- Address *short, medium and longterm risks*
- Balance *costs and benefits*
- Protect *vulnerable populations*
- Drive *economic growth*
- Coordinate with *Regional Initiatives*
- Outline Steps for *implementation*
- *Identify Funding Sources*

Process: *The Six Reconstruction Strategies*

1. Community Planning and Capacity Building



4. Housing



2. Economic Development



5. Infrastructure



3. Health and Social Services



6. Natural and Cultural Resources



Identifying Funding Sources

NY Rising Community Reconstruction Program Funds:

- \$25 million allocated for reconstruction projects in the East and South Shores of Staten Island
- Possible additional funds for exemplary public engagement, regional coordination and design innovation.

Identifying Funding Sources

Federal Funds:

- CDBG-DR
- FEMA: Public & Individual Assistance, Hazard Mitigation Grants
- Social Services Block Grants
- Federal Transit Authority & Federal Highway Administration Relief
- Clean Water & Drinking Water State Revolving Fund

State and City Funds:

- NY Smart Home Buyout Program
- NYC Build it Back (CDBG-DR)
- Small Business Matching Grant Program (CDBG-DR)
- NYC Nonprofit Recovery Loan/Grant Program

Schedule

■ Planning Committee Meeting

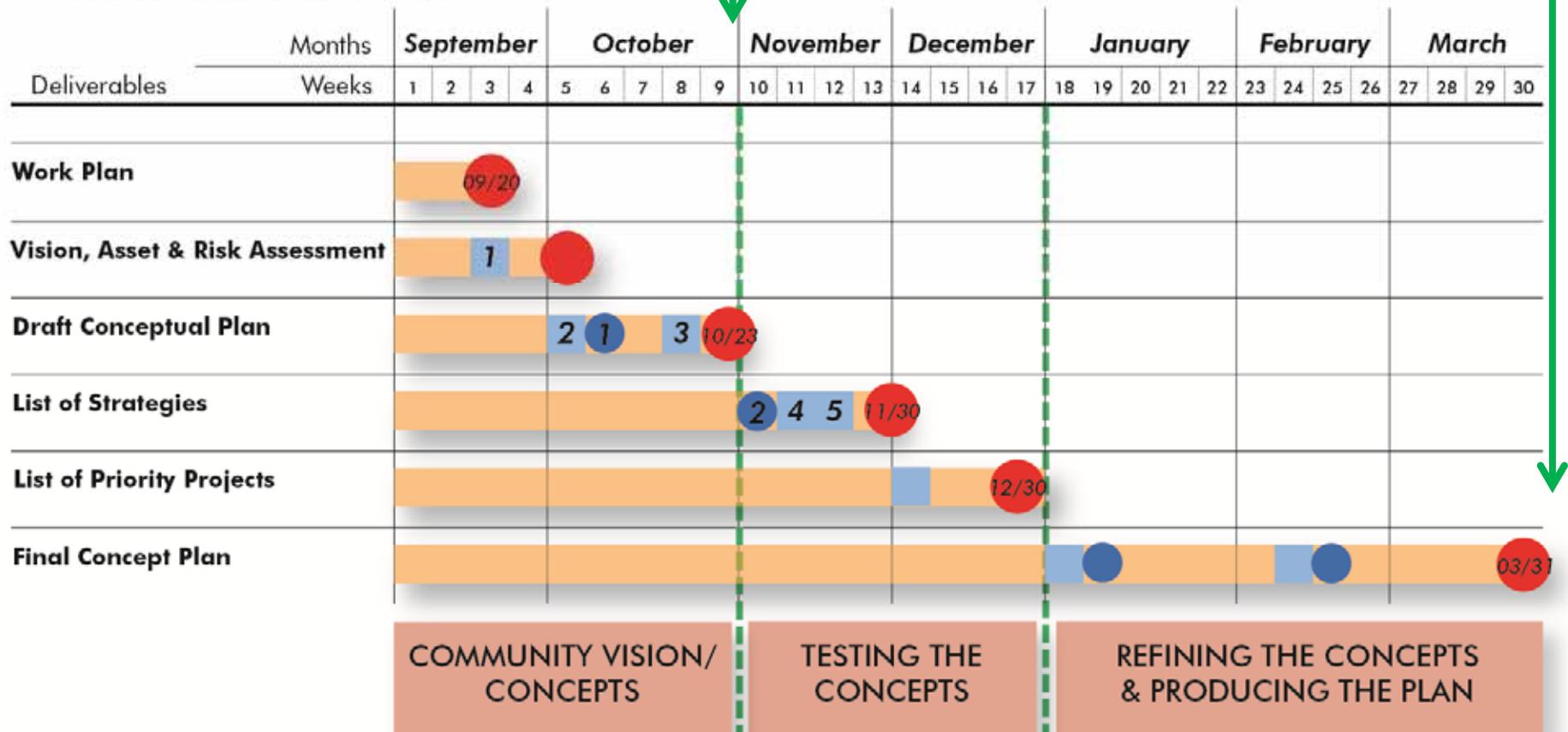
● Public Meeting

● Deliverable Due Date

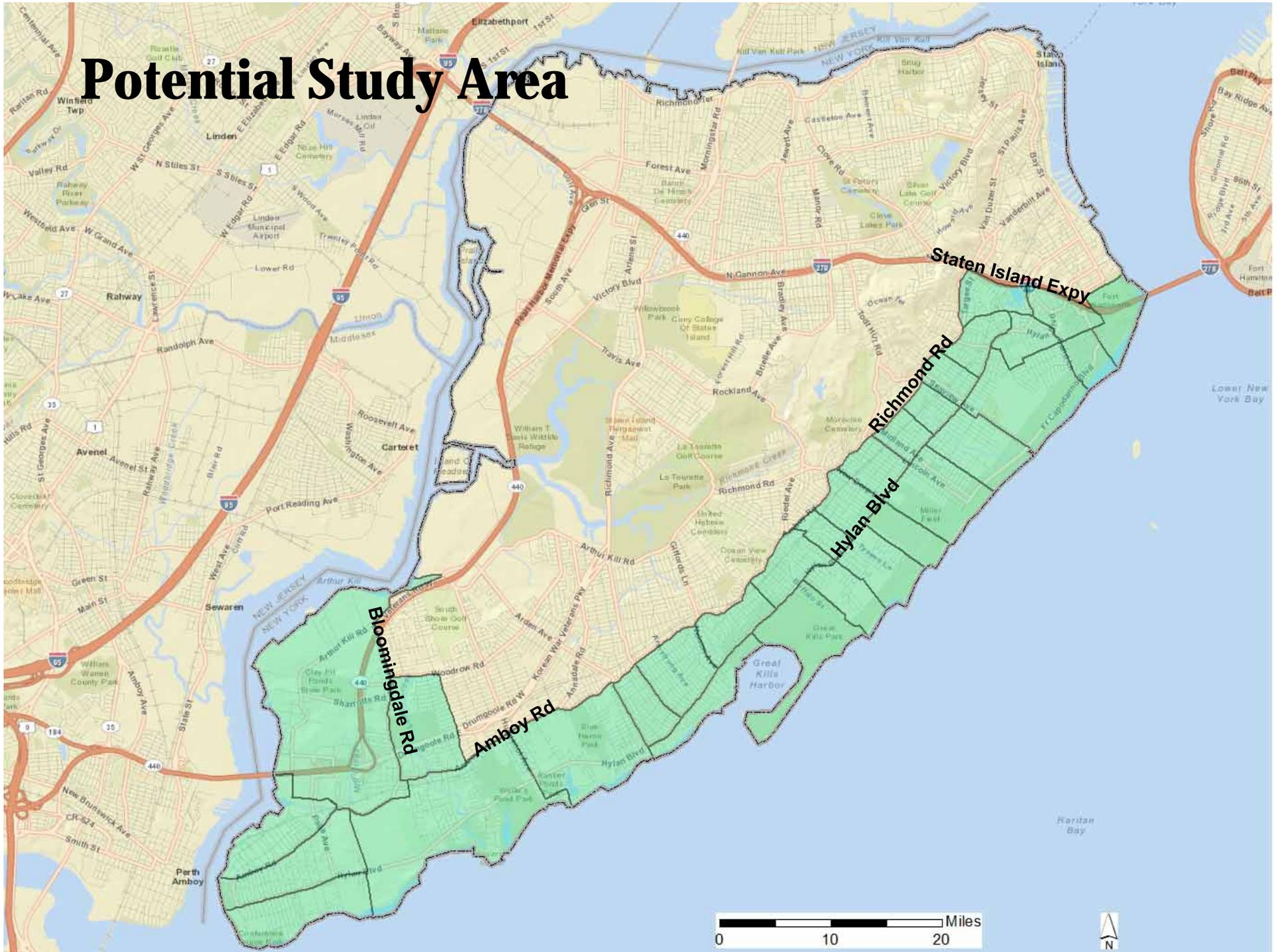
(icons without dates haven't been set yet)

Draft Conceptual Plan
by October 28

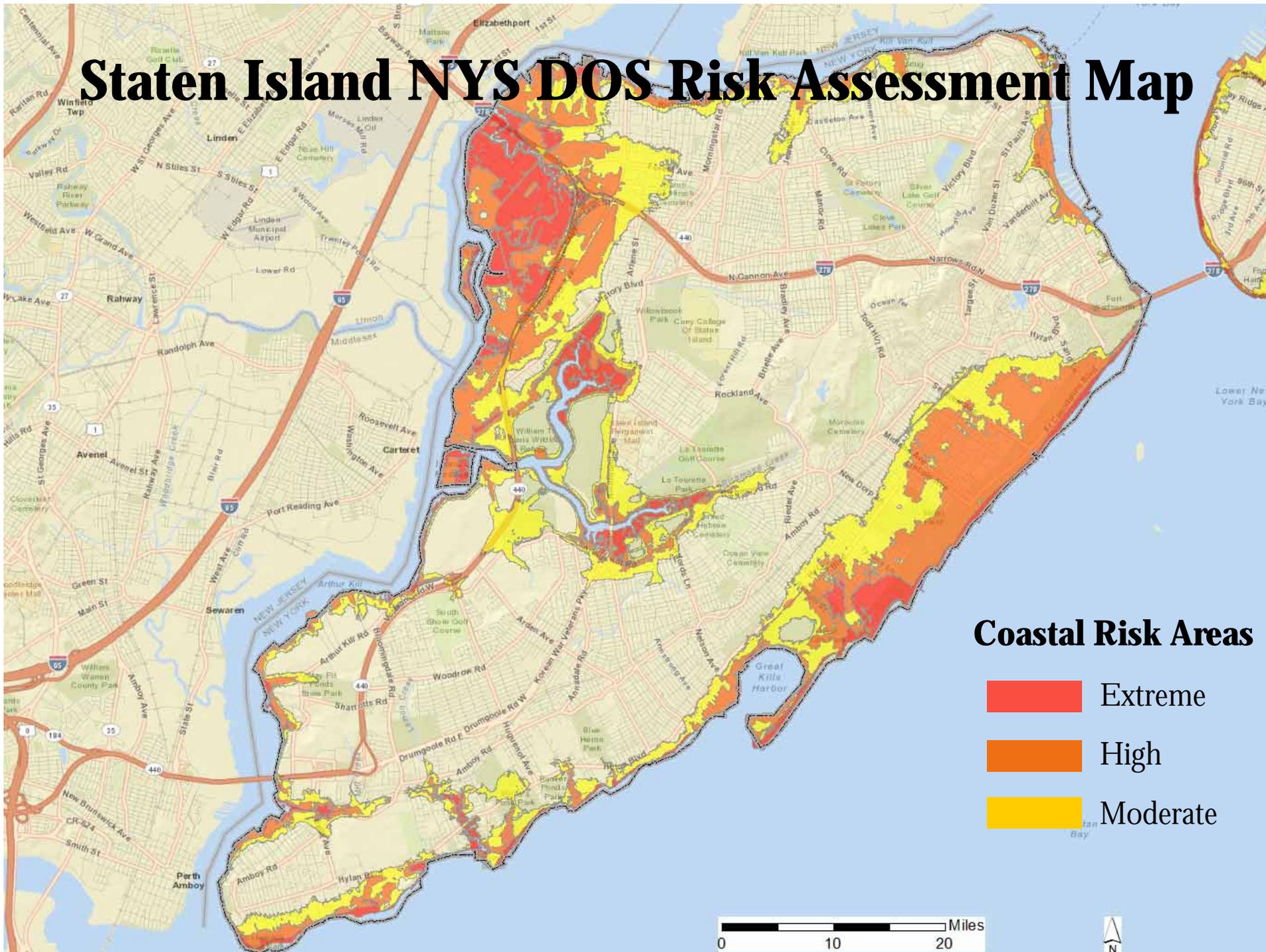
Final Plan
By March 2014



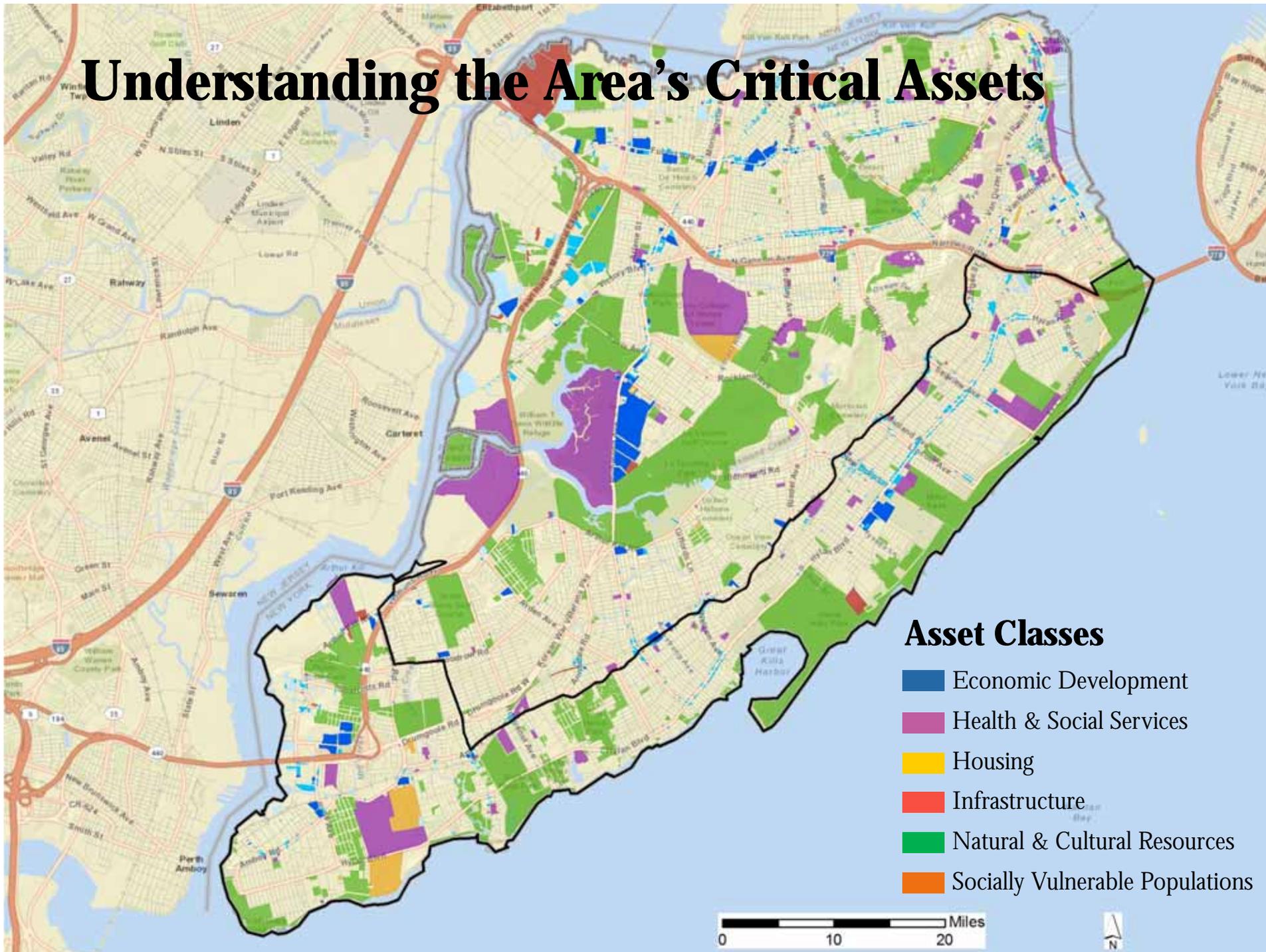
Potential Study Area



Staten Island NYS DOS Risk Assessment Map



Understanding the Area's Critical Assets



NY Rising Vision for Staten Island

Goals:

- Strengthen local business corridors and improve connections to key ***economic*** assets in the North Shore to increase the East and South Shore's economic resilience.
- Improve coordination between ***health and social services*** organizations to effectively communicate services to all populations. Resilience is just as much about social programs and education as it is physical infrastructure.
- Provide residents in low-lying and coastal areas with a ***range of housing options that are resilient*** in design and location.

NY Rising Vision for Staten Island

Goals:

- Rebuild in a way that enhances the area's grey and green *infrastructure systems* to withstand future extreme weather events.
- Enhance the area's *natural and cultural resources* to better withstand storm surges and high winds, and to help control other forms of flooding from heavy rains.
- Bolster the support infrastructure for the East and South Shore's most *vulnerable populations*, including *low-income populations, the elderly, people with disabilities, children* and the *homeless*

Community Planning & Capacity Building

Need

Greater coordination amongst community-based organizations to prepare for disasters and help people recover.

Opportunity

Strong network of non-profit organizations and civic pride that can be built upon to improve education and outreach.



Economic Development



Need

Stronger, more resilient local economy that helps local businesses bounce back more quickly from disasters.

Opportunity

Active community of small businesses that are rooted in their neighborhoods and supported by local business groups

Health & Social Services

Need

Coordination amongst health care and social services organizations to help vulnerable populations from disasters.

Opportunity

- Strong institutions (e.g. SIUH and RUMC)
- Specialized social services organizations that are embedded in the community (e.g. JCC, Richmond Senior Services, and Staten Island NFPA).



Conceptual Plan: Needs & Opportunities

Housing

Need

Creative programs to help extreme and high risk neighborhoods build back more safely or relocate to nearby areas.

Opportunity

Strong sense of community amongst waterfront neighborhoods.



Infrastructure



Need

- Improved stormwater Drainage
- Strengthened coastal protections
- Expanded sewer networks
- More reliable electrical grid.

Opportunity

- Potential to utilize and expand natural protections and green infrastructure (e.g. Staten Island Bluebelt, sand dunes).
- Large institutional facilities, municipal buildings, and open space to house microgrids and renewable energy

Natural & Cultural Resources

Need

Integration of natural resources into existing stormwater and flood protection infrastructure.

Opportunity

Ample parkland, open space, and established Bluebelt program create potential to expand green infrastructure and improve stormwater protections.



Conceptual Plan: Needs & Opportunities

Theme 1

Leverage funding sources for their maximum value, including the available \$25M in CDBG-DR funds and additional sources, by evaluating the impact of ongoing and planned projects in order to identify gaps where the strategic application of these funds can make the most difference.

Theme 2

Strengthen key connections to enable the East and South Shores to better withstand future weather events. Although the emphasis of the NYRCR Plan is on the East and South Shores, Staten Island is one island, and the Planning Area is inextricably linked to, and dependent upon, the rest of the island.

Theme 3

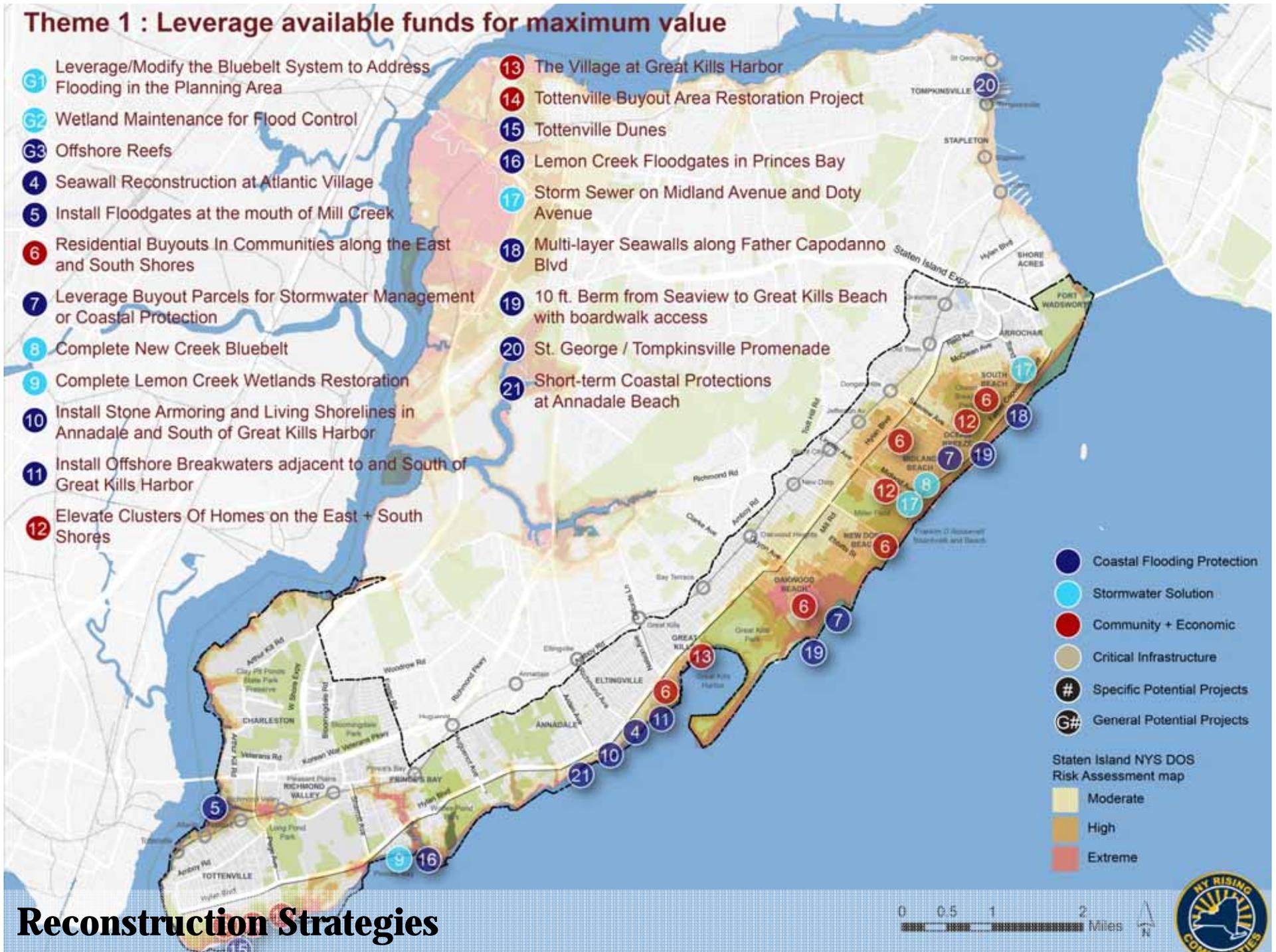
Build on the strong network of existing civic, health and social service organizations that the East and South Shore communities have been fortunate to have operating in the area to strengthen the resilience of the area's organizational infrastructure.

Reconstruction Strategies : Key Themes

Theme 1 : Leverage available funds for maximum value

- G1 Leverage/Modify the Bluebelt System to Address Flooding in the Planning Area
- G2 Wetland Maintenance for Flood Control
- G3 Offshore Reefs
- 4 Seawall Reconstruction at Atlantic Village
- 5 Install Floodgates at the mouth of Mill Creek
- 6 Residential Buyouts In Communities along the East and South Shores
- 7 Leverage Buyout Parcels for Stormwater Management or Coastal Protection
- 8 Complete New Creek Bluebelt
- 9 Complete Lemon Creek Wetlands Restoration
- 10 Install Stone Armoring and Living Shorelines in Annadale and South of Great Kills Harbor
- 11 Install Offshore Breakwaters adjacent to and South of Great Kills Harbor
- 12 Elevate Clusters Of Homes on the East + South Shores

- 13 The Village at Great Kills Harbor
- 14 Tottenville Buyout Area Restoration Project
- 15 Tottenville Dunes
- 16 Lemon Creek Floodgates in Princes Bay
- 17 Storm Sewer on Midland Avenue and Doty Avenue
- 18 Multi-layer Seawalls along Father Capodanno Blvd
- 19 10 ft. Berm from Seaview to Great Kills Beach with boardwalk access
- 20 St. George / Tompkinsville Promenade
- 21 Short-term Coastal Protections at Annadale Beach



Reconstruction Strategies



G1
Leverage / Modify the Bluebelt System to Address Flooding in the Planning area



Lower-Cost Bluebelt Under Construction

Lower-Cost Bluebelt After 2 Draining Seasons

The Staten Island Bluebelt program:

1. Preserves natural drainage corridors, called Bluebelts, including streams, ponds, and other wetland areas.
2. Uses streams, ponds and other wetland systems to conveying, storing, and filtering stormwater.
3. Creates important community open spaces and diverse wildlife habitats.
4. Saves tens of millions of dollars in infrastructure costs when compared to providing conventional storm sewers for the same land area.



1. Conventional Stormwater Retention
 2. Stormwater Retention
 3. Stormwater Retention
 4. Benefits of Sinking Pond
 5. Benefits of Sinking Pond
 6. Current Improvement
 7. Stormwater Retention and Stormwater Retention
- Special Bluebelt



The current Bluebelt system drains 15 watersheds clustered at the southern end of the Island, plus the Richmond Creek watershed. The combined area of these 16 watersheds totals approximately 10,000 acres.

East and South Shore Watersheds

G2
Wetland Maintenance for Flood Control



G3
Offshore (Oyster) Reefs



Example of Offshore Reef

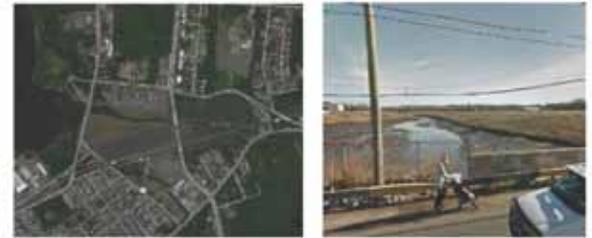
4
Seawall Construction at Atlantic Village



Damaged Seawall at Atlantic Village

Location of Seawall

5
Install Floodgates at the Mouth of Mill Creek



Location of Mill Creek

6
Residential Buyouts in Communities along the East and South Shore



7
Leverage Buyout Parcels for Stormwater Management or Coastal Protection

DEP, in collaboration with the National Park Service, is proposing this project to remove fill over nearly 53-acres and allow greater tidal inundation and create back dunes to reduce the effects of rising coastal waters.

This project also has an important value of removing highly flammable Phragmites, and replacing with tidal wetland plants.



Location of Project Proposed by DEP

Theme 1: Leverage Available Funds for Maximum Value



8 Complete New Creek Bluebelt



10 Install Stone Armoring and Living Shorelines in Annadale and South of Great Kills Harbor



Building of Dunes in Staten Island

13 The Village at Great Kills Harbor



11 Install Offwater Breakwaters adjacent to and South of Great Kills Harbor



Location of Breakwaters as Proposed by Select by Design

14 Tottenville Buyout Area Restoration Project



9 Complete Lemon Creek Wetlands Restoration



Location of Lemon Creek Wetland

12 Elevate Clusters of Homes



Examples of Elevation of Homes

15 Complete Tottenville Dunes Project



Building of Dunes using Geotextile Bags in Tottenville

Theme 1: Leverage Available Funds for Maximum Value



16

Lemon Creek Floodgates in Princes Bay



Location of Lemon Creek

17

Storm Sewer on Midland Avenue and Doty Avenue



18

Multi-layer Seawalls along Father Capodanno Blvd.



Non-storm conditions

Example of Levee from RMAA's A Stronger More Resilient New York Report

19

10ft. Berm from Seaview to Great Kills Beach with Boardwalk Access



Details of Boardwalk Access

20

St. George - Tompkinsville Promenade



The St. George - Tompkinsville Promenade is envisioned to create a continuous waterfront connection from St. George to Stapleton.

21

Short-term coastal protections at Annadale Beach



Example of BWP Installation



Stone Bulkheads on Staten Island

Theme 1: Leverage Available Funds for Maximum Value



What are your innovative ideas?

Levee



Brighton, UK



Wickham, UK

Floodgate



Conceptual Rendering of Newham Creek Surge Barrier - PWRDC's A Surge Barrier Protects New York Harbor



Storm Surge Barrier in Stamford, CT

Green Infrastructure



Example of a Green Street



Using Green Infrastructure to Collect Storm and Filter Storm Water



Wickham in Sussex Island

Beach Restoration

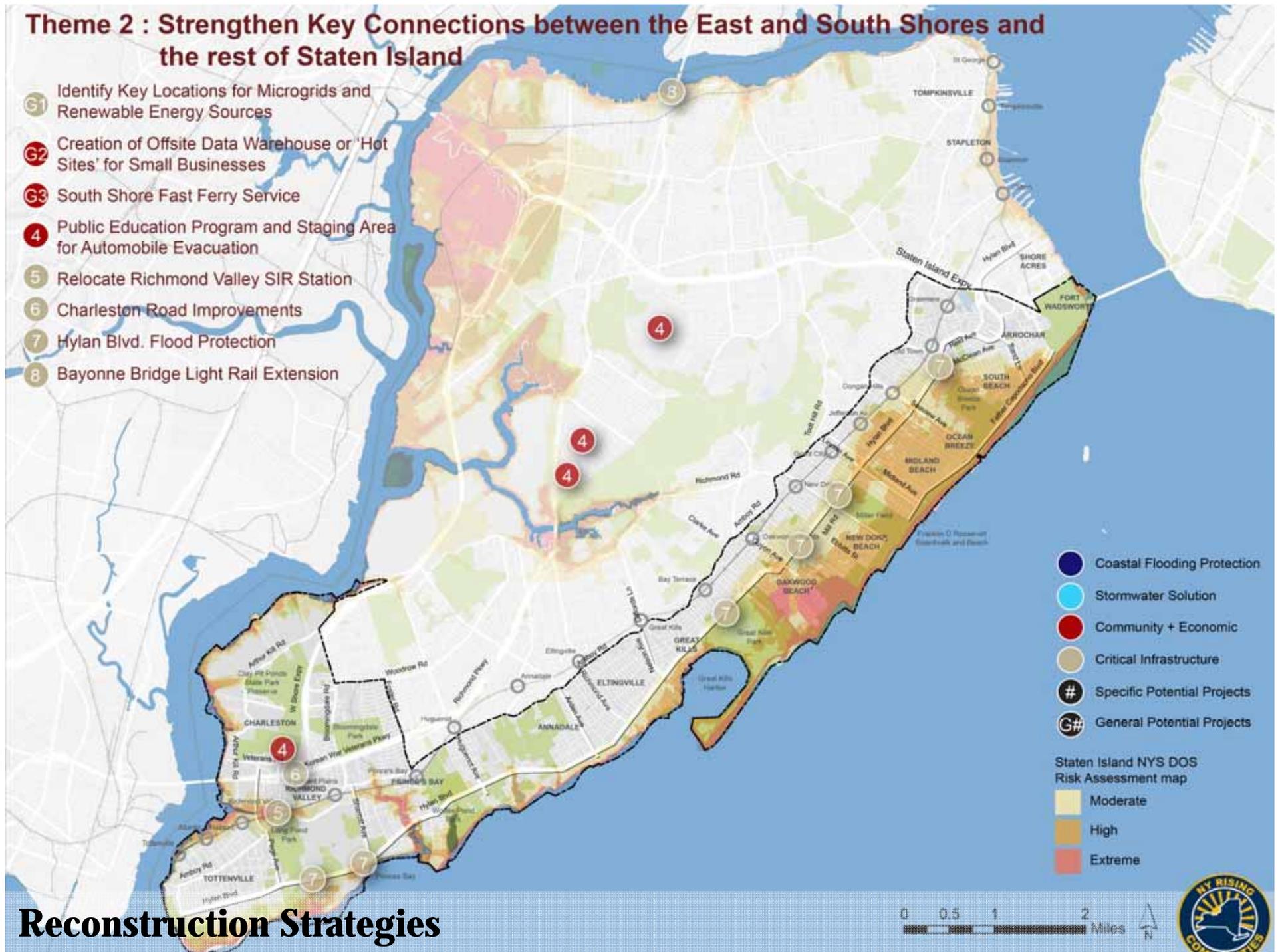


Beach Restoration Project in Staten Island



Theme 2 : Strengthen Key Connections between the East and South Shores and the rest of Staten Island

- G1 Identify Key Locations for Microgrids and Renewable Energy Sources
- G2 Creation of Offsite Data Warehouse or 'Hot Sites' for Small Businesses
- G3 South Shore Fast Ferry Service
- 4 Public Education Program and Staging Area for Automobile Evacuation
- 5 Relocate Richmond Valley SIR Station
- 6 Charleston Road Improvements
- 7 Hylan Blvd. Flood Protection
- 8 Bayonne Bridge Light Rail Extension



Reconstruction Strategies

0 0.5 1 2 Miles



G1
Identify Key Locations for Microgrids and Renewable Energy Sources



G2
Creation of Offsite Data Warehouse or 'Hot Sites' for Small Businesses



G3
Expanded Ferry Service



4
Public Education Program and Staging area for Automobile Evacuation



5
Relocate Richmond Valley SIR Station



6
Charleston Road Improvements



7
Hylan Blvd. Flood Protection



8
Bayonne Bridge Light Rail Extension



Theme 2: Strengthen Key Connections between the East and South Shores and the rest of Staten Island



Microgrids



Transportation



Public Education



Evacuation Routes



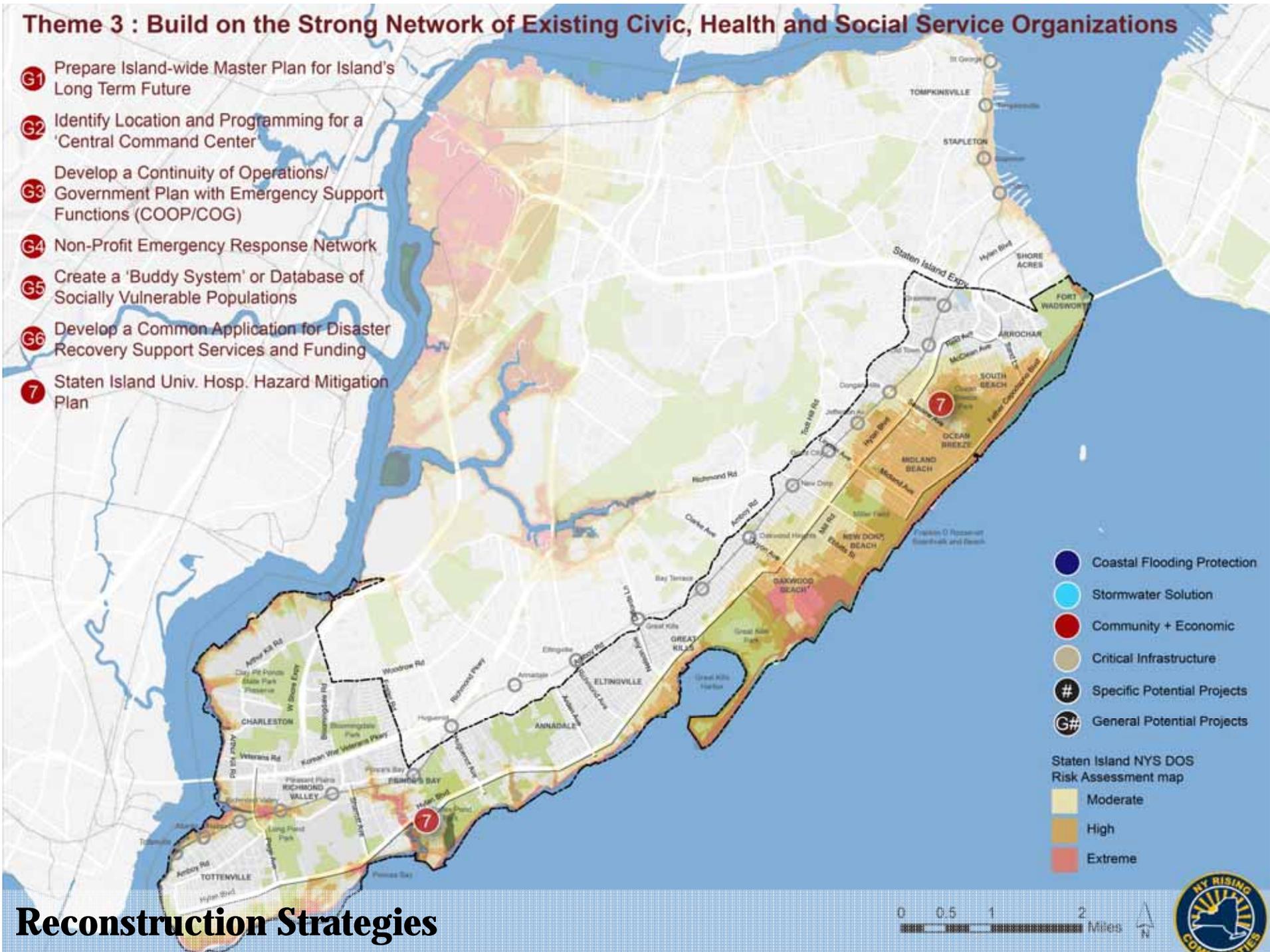
What are your innovative ideas?

Theme 2: Strengthen Key Connections between the East and South Shores and the rest of Staten Island - Innovative Ideas



Theme 3 : Build on the Strong Network of Existing Civic, Health and Social Service Organizations

- G1** Prepare Island-wide Master Plan for Island's Long Term Future
- G2** Identify Location and Programming for a 'Central Command Center'
- G3** Develop a Continuity of Operations/ Government Plan with Emergency Support Functions (COOP/COG)
- G4** Non-Profit Emergency Response Network
- G5** Create a 'Buddy System' or Database of Socially Vulnerable Populations
- G6** Develop a Common Application for Disaster Recovery Support Services and Funding
- 7** Staten Island Univ. Hosp. Hazard Mitigation Plan



Reconstruction Strategies

G1
Prepare Island-wide Master Plan for Island's Long Term Future



G2
Identify Location and Programming for a 'Central Command Center'



G3
Develop a Continuity of Operations /Government Plan with Emergency Support Functions (COOP/COG)



G4
Non-Profit Emergency Response Network



G5
Create a 'Buddy System' or Database of Socially Vulnerable Populations



G6
Develop a Common Application for Disaster Recovery Support Services and Funding



7
Staten Island Univ. Hosp. Hazard Mitigation Plan



8
Rebuild New Dorp Beach Friendship Club to serve the elderly population along the shoreline and increase community meeting space



Theme 3 : Build on the Strong Network of Existing Civic, Health and Social Service Organizations



What are your innovative ideas?

Community Training



Example - New Orleans Hurricane Evacuation Volunteer Organization

Emergency Response Network



Volunteer Agency Liaison



Between Organizations Active in Disaster



Example - Community Training

Mobile Command Unit



Example - Public Art for Emergency Alert in New Orleans



Mobile Command Unit, NHTD

Theme 3 : Build on the Strong Network of Existing Civic, Health and Social Service Organizations - Innovative Ideas



Community Reconstruction (CR) Plan

Open House

Stations:

- NYRCR Program Information
- Vision
- Theme 1: Leverage Available Funds for Maximum Value
- Theme 2: Strengthen Key Connections between East and South Shores and the rest of Staten Island
- Theme 3: Build on the Strong Network of Existing Civic, Health and Social Service Organizations

Community Reconstruction (CR) Plan

We want your feedback!

1. Fill out a **Comment Form**
2. Go to the Community Reconstruction **Website** to provide online feedback (<http://stormrecovery.ny.gov/communityreconstruction-Program>)
3. **Email** Comments to: info@stormrecover.ny.gov
4. Attend a future Staten Island **Planning Committee Meeting**
5. Attend future **Public Meetings** – January 2014