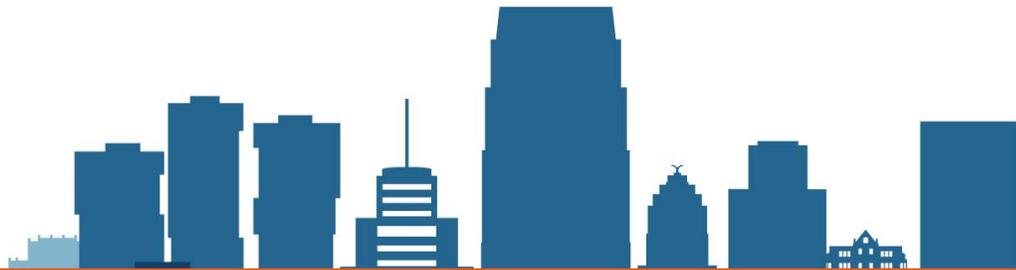




# RESILIENT NORTHEASTERN NJ

## SCENARIO DEVELOPMENT JERSEY CITY – HUDSON / EAST JERSEY CITY

WAVE 3 MEETING IN A BOX  
SPRING 2022



### PLEASE NOTE:

All content is working DRAFT for planning and discussion purposes only  
This document can be used either for individual review or to help guide a meeting

# NOTES TO THE FACILITATOR

**HIDE THIS SLIDE WHEN PRESENTING BY RIGHT CLICKING ON THE SLIDE IN THE PANEL AND SELECTING “HIDE SLIDE” (or delete it)**

- First, thank you so much for helping to ensure there is widespread public involvement in this important project!
- We have included a sample script in the speakers notes of the PowerPoint file.
- We recommend that one person presents this slide deck, while another takes notes either directly in the form accessible through the QR code to the right or separately such that it can be later logged as feedback via the QR code to the right.
- This deck is intended to help support and guide conversations to obtain the input needed at this phase of the project, but it is not intended to be prescriptive. All content is working DRAFT for planning and discussion purposes only.
- It can be helpful at the beginning of meetings with people new to you to set ground rules to help guide the meeting. Example possible ground rules include: Participate fully, give everyone the chance to speak, seek first to understand then be understood, respect the group’s time.
- Please share your thoughts about what worked and didn’t work about the information provided herein, and how our next rounds of materials can be even better in the feedback form.



**PLEASE  
LOG  
FEEDBACK  
FROM THE  
MEETING  
[HERE](#)**

# Community Meeting Guidelines

TO ENSURE THAT WE ARE ABLE TO MAXIMIZE OUR TIME TOGETHER AS A GROUP

- **Please remain on mute unless speaking**
- **During the main presentation:**
  - Please submit questions in the chat
  - Please turn off video to allow for ASL accessibility
- **During the breakouts:**
  - If you are able and willing to, please consider turning on your camera
  - Use one mic and stack
  - Acknowledge everyone's voice and time. If you find yourself speaking frequently, consider opening the floor to your group members. We look forward to hearing what everyone has to say!
  - Please speak from your own experience
  - If there are several group members with things to share, please use the 'raise hand' function, the chat, or gesticulating in Zoom and a facilitator will call on you
- **Please save discussion for the breakouts and report out**



**Join the conversation!**

**Please use the chat function to ask questions as we go!**

**If the meeting abruptly ends, please be patient and re-join using the same Zoom link. You will also receive an email with the meeting link.**

# TOPICS

- What's important and at risk in this neighborhood?
- For each solution scenario:
  - Possible actions
  - How the area might change
  - Key considerations
  - What do you think?
- Discussion
  - Of everything we discuss, what is most important to advance?
  - What do you want to not happen?



***“We have tools and ideas, like a carpenter, but this is your house”***

***For this regional level plan, we have broken the community down into geographic areas. This means that there is nuance and community boundaries that might not always be honored. Let us know when we don't get it right.***

**HUDSON / EAST JERSEY CITY**

# AREA CONTEXT

- Access to the waterfront
- Access to regional transportation
- Pedestrian and biker experience
- Importance of neighborhood parks and Liberty State Park
- Desire to see more green space, trees, and green infrastructure

## Land Use

### Residential

- High Density
- Medium to Low Density (Single Unit)

### Commercial & Industry

- Commercial/Services
- Cultural Attractions
- Industrial & Commercial Complexes
- Industrial
- Transportation, Services & Utilities
- Other Urban/Built-Up Land

### Natural & Open Space

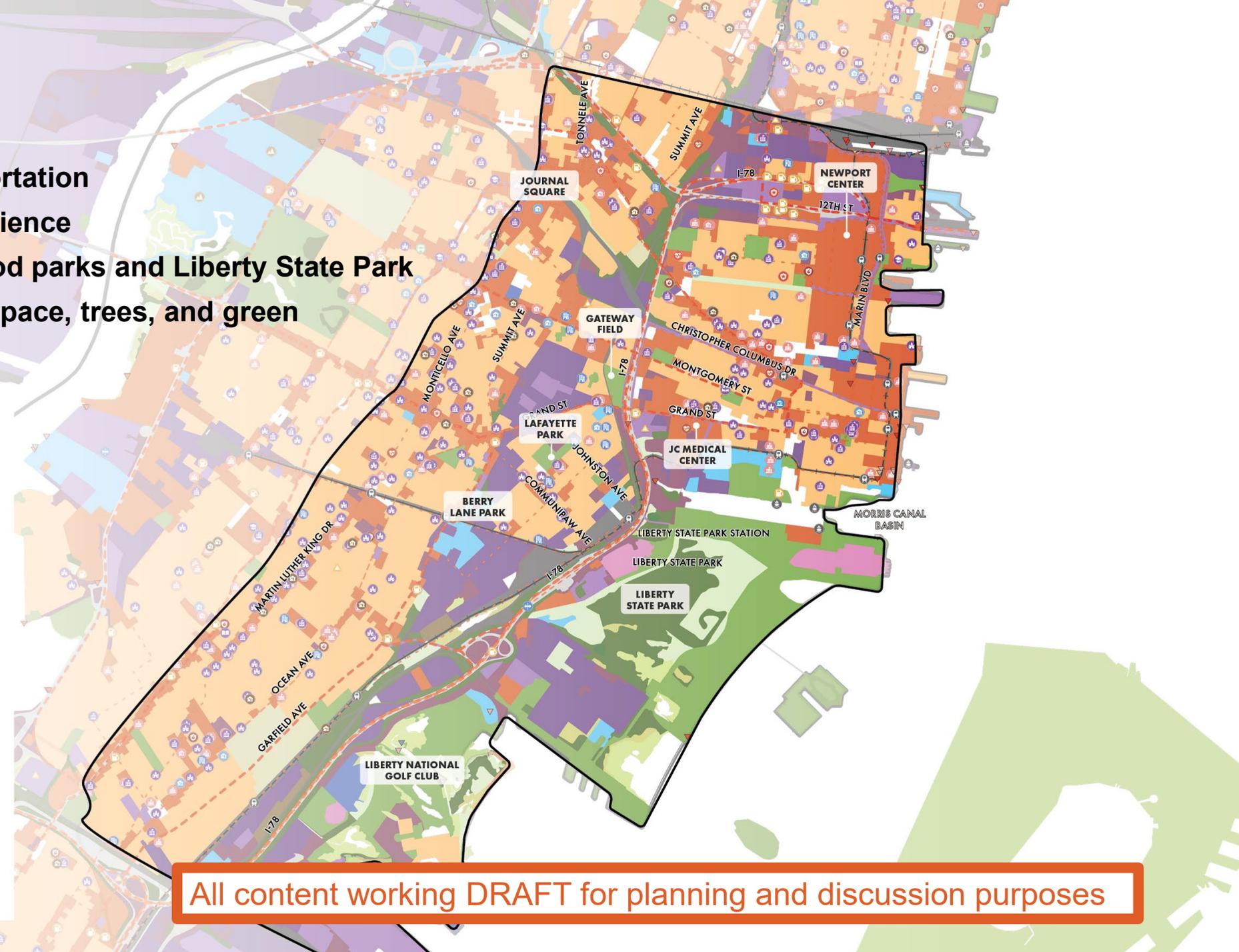
- Mixed Forests
- Coniferous Forests
- Deciduous Forests
- Wetlands/Marshes
- Agriculture
- Recreational Land
- Open Field (< 25% Covered)
- Cemetery
- Phragmites Dominate Areas
- Beaches

### Other

- Barren Lands
- Altered Lands
- Military Installations
- Transitional Areas

## Asset\_Type

- Hurricane Evacuation Route
- Bus Routes
- Light Rail/Commuter Rail
- Child Care Centers
- Colleges
- Combined Sewer Outfall
- EMS
- Ferry Terminal
- Fire Stations
- Gas Stations
- Hospitals/Medical Centers
- Landfill
- Library
- Major Sports Venue
- Municipal Building
- Nursing Homes
- Other Surface Discharge
- Places of Worship
- Police Stations
- Power Generation
- Public Housing
- Rail Stations
- Schools
- Senior Housing
- Shelters
- Stormwater Discharge
- Substations
- Wastewater Treatment



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# RISK CONTEXT

Both rainfall flooding and coastal flooding can impact large swaths of this area. Tidal flooding shown here impacts fewer areas but would be at a nearly constant frequency. Parks, transportation infrastructure, homes, streets, and community buildings are all at risk.

## 24 HOUR, 100 YEAR STORM

2070 MODEL (HIGH TIDE + SLR + 10% RAINFALL INCREASE)

## STORM SURGE

2070 EXTENT (HURRICANE SANDY + SEA LEVEL RISE)

AREAS OF OVERLAP

## SEA LEVEL RISE

..... 2070 MHHW + 2.4' SLR

— 2070 MHHW + 5.0' SLR



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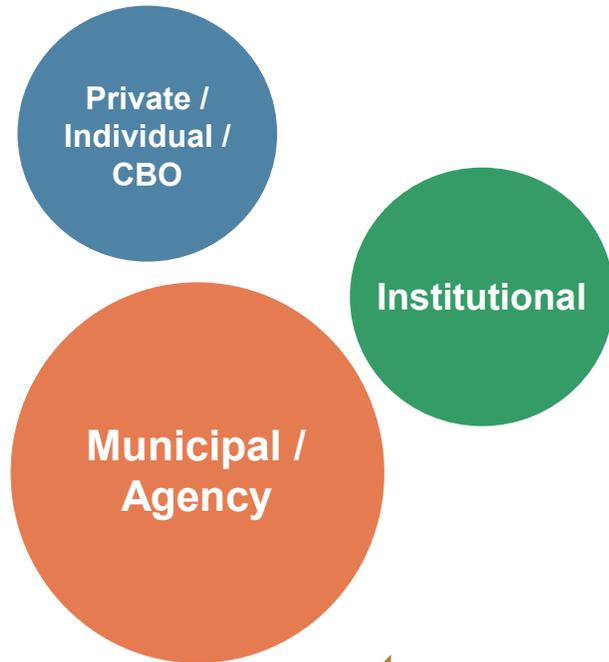


# SCENARIOS

*The scenarios are not alternatives.  
The action plan could be a combination  
of actions from the different scenarios.*

## Scenario 1

**Individual Initiative**



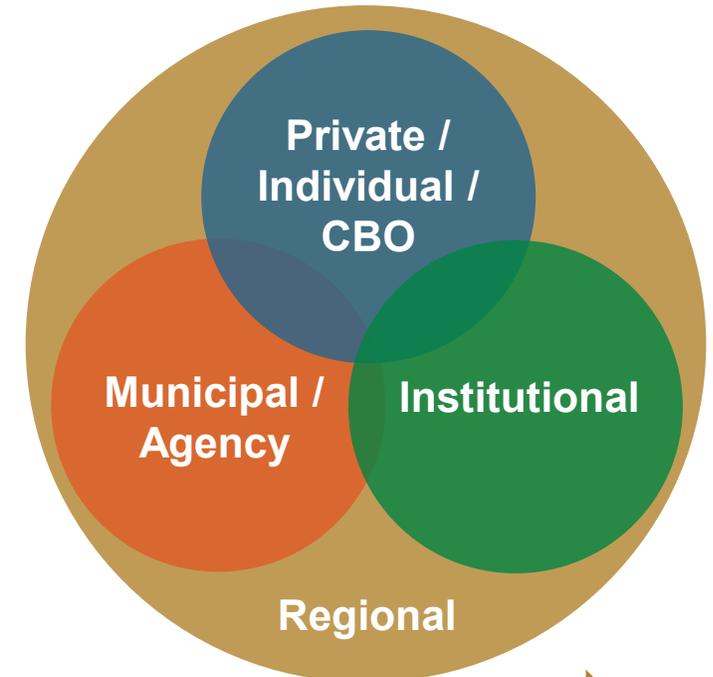
## Scenario 2

**Shared Responsibility**



## Scenario 3

**Regional Coordination**



***CBO's are  
community-based  
organizations***

**← ENGAGEMENT WITH RESIDENTS AND OTHER STAKEHOLDERS ACROSS ALL →**

# SCENARIO 1

## INDIVIDUAL INITIATIVE

### EXISTING CONDITIONS

- ◇ PROJECTS ALREADY PLANNED OR IN PROGRESS
- ▼ EXISTING OUTFALLS
- LTCP STORAGE TANKS
- PROPOSED GREENWAY CORRIDORS (BY OTHERS)

### RESILIENT NJ MEASURES

- COASTAL PROTECTION ALIGNMENTS
- GREEN INFRASTRUCTURE CORRIDORS
- PARK/WETLAND AREAS
- SUGGESTED FLOW PATHS
- SUGGESTED RETENTION AREAS
- PUMP STATIONS
- PROPOSED GREENWAY CORRIDORS
- AREAS OUTSIDE PROTECTIONS
- REDEVELOPMENT AREAS
- SITES TO ADAPT
- ▲ POSSIBLE RESILIENCE HUB LOCATION

### NON-PHYSICAL SOLUTIONS

- 1 ADOPT ORDINANCES TO STATE MODELS & GUIDANCE
- 2 GI PROGRAM FOR CITY PROPERTIES
- 3 GUIDELINES FOR GI ON OPEN SPACE
- 4 TREE CANOPY PROGRAMS
- 5 RESILIENCE HUBS AT CITY PROPERTIES
- 6 MUNICIPAL TRASH CLEANUP & CATCH BASIN PROGRAMS
- 7 PROMOTE & INCORPORATE RESIDENT FLOOD REPORTING
- 8 INTER-DEPARTMENT & MUNICIPAL COORDINATION



PROTECT KEY ELECTRICAL INFRASTRUCTURE ASSETS

IMPROVE OUTFLOW TO MAIN DRAINAGE CORRIDORS & REEXAMINE LTCP RETENTION TANKS

EXPLORE INLAND FLOOD BARRIER ALIGNMENT AT WASHINGTON AS AN ALTERNATIVE TO BOARDWALK RAISING

STRENGTHEN COORDINATION WITH HOBOKEN'S RBD FLOOD BARRIERS FOR MUTUAL BENEFITS

SEWER SEPARATION PRESCRIBED BY LTCP

PROTECT KEY HOUSING ASSETS

EXPLORE SEWER SEPARATION WITH RETENTION AT FEASIBLE CITY SITES. POTENTIAL TIE IN TO NJDEP WETLAND PROJECT

REVIEW & STRENGTHEN RESILIENCE MEASURES OF PLANNED REDEVELOPMENT

CREATE BARRIERS AT KEY FLOOD PATHWAYS INTEGRATED WITH HIGHWAY UNDERPASSES

CREATE A BARRIER AT PHILIP ST (ROAD RAISING OR FLOODWALL) POSSIBLY LEVERAGING NJDEP WETLAND PROJECT

CITY ENFORCED ADAPTATION REGULATIONS FOR INDUSTRIAL AREAS OUTSIDE OF PROTECTIONS



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# KEY CHANGES, SCENARIO 1



**COASTAL PROTECTIONS**



## 1. 'SPRING DAM'

Reading, United Kingdom



**DRAINAGE IMPROVEMENTS**



## 3. IMPROVED STORMWATER SURFACE CONVEYANCE

Waterplein Benthemplein  
Rotterdam, Netherlands



**GREEN INFRASTRUCTURE**



## 5. PERMEABLE PARKING SURFACES

TU Delft  
Netherlands



## 2. INLAND ROAD ELEVATION

Miami Beach, Florida



## 4. URBAN STORMWATER RETENTION PARKS

Venice Island  
Philadelphia



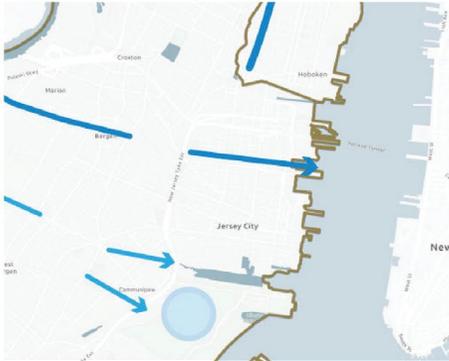
## 6. R.O.W GREEN INFRASTRUCTURE

Queens, New York City

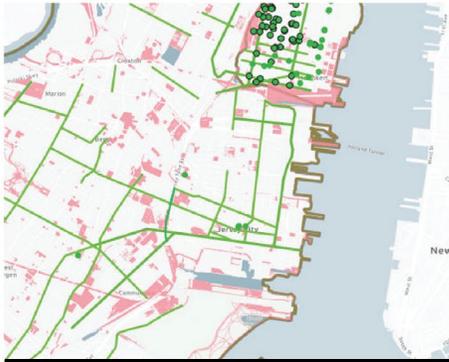
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**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**OBJECTIVES, SCENARIO 1**

Close gaps in infrastructure and topography using strategies such as inland road raising with adaptation measures applied to areas left outside protections.

Improve drainage & pumping along existing pathways, taking advantage of areas that can be easily separated from the combined sewer system.

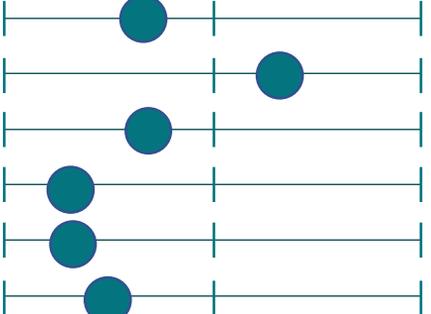
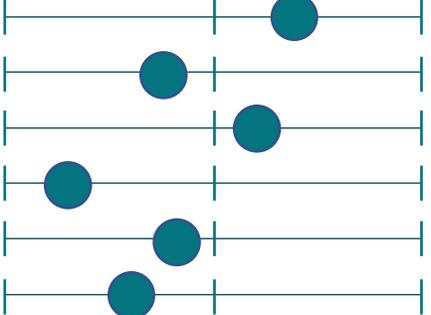
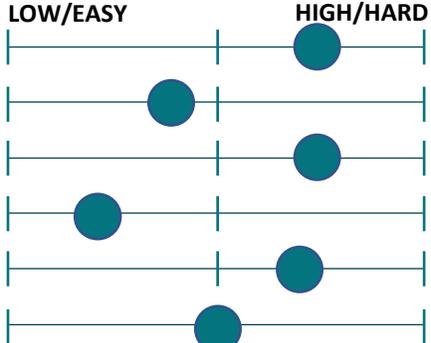
Expand green infrastructure installations on public property targeting key primary corridors and lots with significant impervious area.

**KEY CONSIDERATIONS, SCENARIO 1**

- CONSTRUCTION TIME
- IMPACT TO PUBLIC ACCESS & USE
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**ISSUES TO CONSIDER**

Alignments along public right of ways can be implemented by the city **BUT** parts of the community would be left out of the alignment and could be cut off from critical services during storm events.

Upgrades to the current system can be phased to facilitate construction and provide immediate benefit **BUT** upgrades to the existing system will not greatly expand the existing sewer capacity and could exceed treatment plant capacity.

Green infrastructure projects can treat stormwater at the source and add other benefits to the city **BUT** will compete with other needs in the public right of way and is limited in treating large storm events.

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# NON-PHYSICAL SOLUTIONS, SCENARIO 1



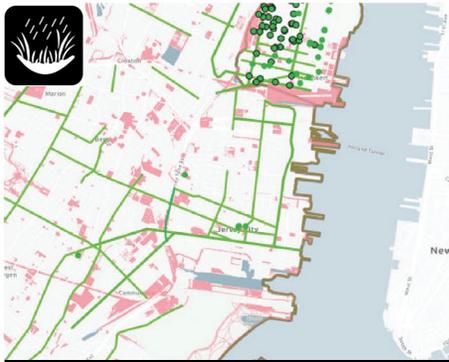
**COASTAL PROTECTIONS**

Policy based coastal measures are needed for areas outside of protections & for areas integrated with inland alignments.



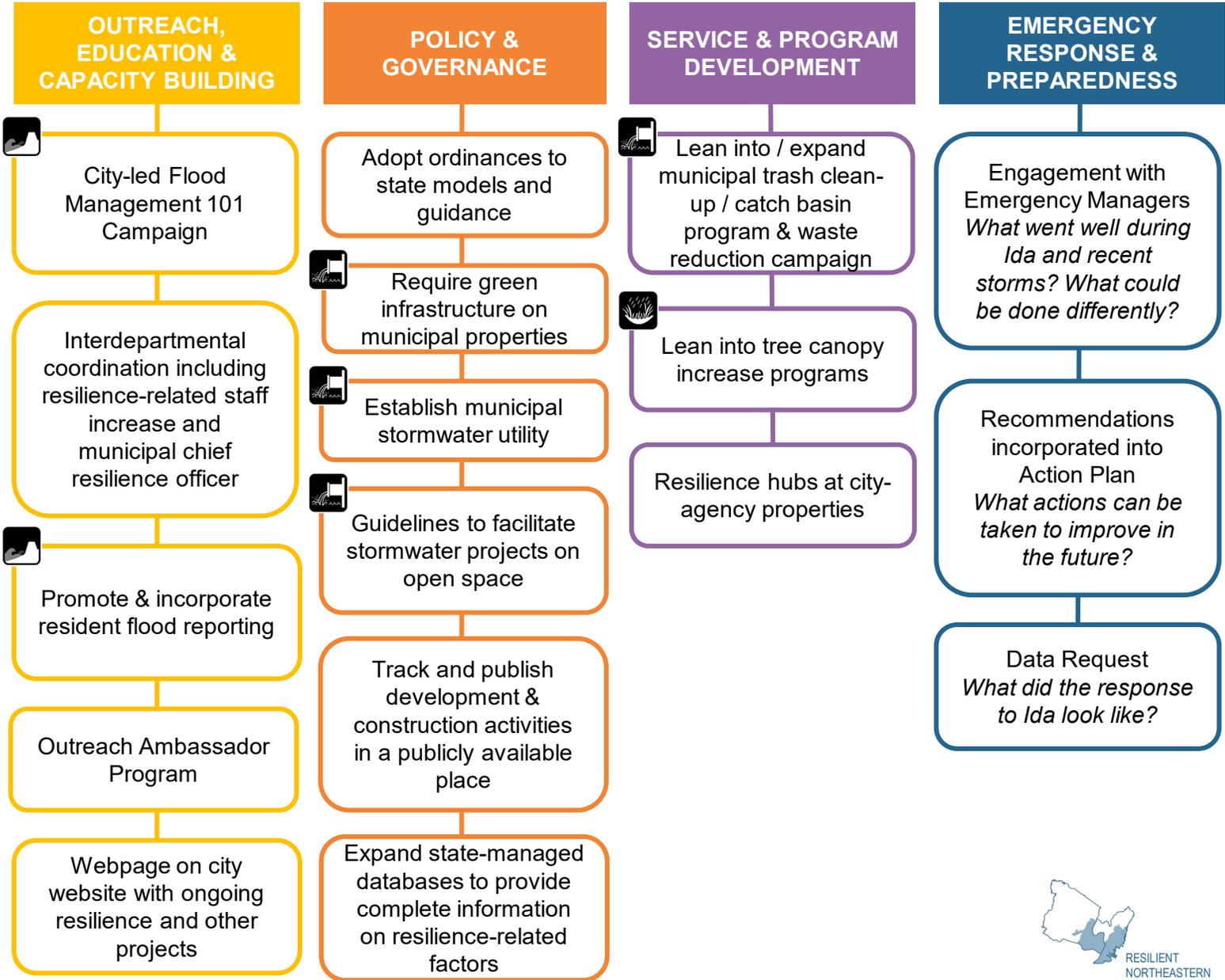
**DRAINAGE IMPROVEMENTS**

Policy based measures like trash clean-up & catch basin programs help with drainage efficiency while larger measures like a Municipal Stormwater utility increase resilience equity.



**GREEN INFRASTRUCTURE**

Measures like tree programs and Green Infrastructure requirements on public open-space are essential to meeting resilience goals in Scenario 1.

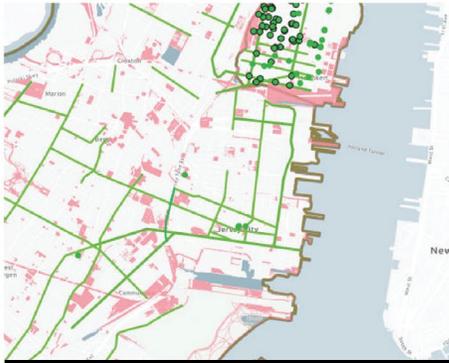




**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**QUESTIONS TO CONSIDER**

- Which streets or city properties do you want to see transformed?
- What greening projects would appeal to you most?
- Where would you like to see Resilience Hubs?

**WHAT DO YOU LIKE ABOUT SCENARIO 1?**

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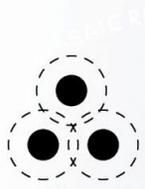
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**WHAT DO YOU DISLIKE ABOUT SCENARIO 1?**

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Empty dashed box for feedback on Scenario 1.

Empty dashed box for feedback on Scenario 1.



# SCENARIO 2 SHARED RESPONSIBILITY

## EXISTING CONDITIONS

- ◇ PROJECTS ALREADY PLANNED OR IN PROGRESS
- ▼ EXISTING OUTFALLS
- LTCP STORAGE TANKS
- PROPOSED GREENWAY CORRIDORS (BY OTHERS)

## RESILIENT NJ MEASURES

- COASTAL PROTECTION ALIGNMENTS
- POTENTIAL ALTERNATE COASTAL ALIGNMENTS
- GREEN INFRASTRUCTURE CORRIDORS
- SUGGESTED FLOW PATHS
- SUGGESTED RETENTION AREAS
- PUMP STATIONS
- PROPOSED GREENWAY CORRIDORS
- AREAS OUTSIDE PROTECTIONS
- REDEVELOPMENT AREAS
- SITES TO ADAPT
- ▲ POSSIBLE RESILIENCE HUB LOCATION

## NON-PHYSICAL SOLUTIONS

- 1 INCORPORATE RESILIENCE INTO REDEVELOPMENT PLANS
- 2 INCENTIVIZE GI ON PRIVATE PROPERTIES
- 3 RESILIENCE LEADER OUTREACH AND TRAINING PROGRAM
- 4 TRASH CLEAN-UP DAYS AND COMMUNITY GARDENS THROUGH PARTNERSHIPS
- 5 RAIN BARREL DISTRIBUTION & GUIDE FOR INSTALLATION



UNDERGROUND STORMWATER TUNNEL SYSTEM



1 IMPROVE ALL OUTFLOW CAPACITY & INTRODUCE NEW RETENTION TANKS

EXPLORE PUBLIC/PRIVATE RETENTION OPPORTUNITIES IN WALKWAY RECONFIGURATION



GLINTERGRAATED BOARDWALK

1 IMPROVE & ADVANCE CITY PLANS TO ELEVATE BOARDWALK & STREET CORRIDORS ALONG THE HUDSON WATERFRONT

DEEP TUNNEL STORAGE ALONG NJ TPKE R.O.W.

DIRECT STORMWATER TO NEW RETENTION AREAS AT GATEWAY PARK

DIRECT STORMWATER TO NEW RETENTION AREAS AT BERRY LAND & LAFAYETTE PARKS

2 NEW PUMP STATION TO MORRIS CANAL BASIN

1 EXPLORE PARTNERSHIP TO COORDINATE NJDEP WETLAND PROJECT WITH NEW FLOOD BARRIER

2 EXPLORE A CONTINUOUS BARRIER CONNECTING NATURAL HIGH POINTS, IN COORDINATION WITH AGENCIES & LAND OWNERS



BERRMS & WETLANDS

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# KEY CHANGES, SCENARIO 2



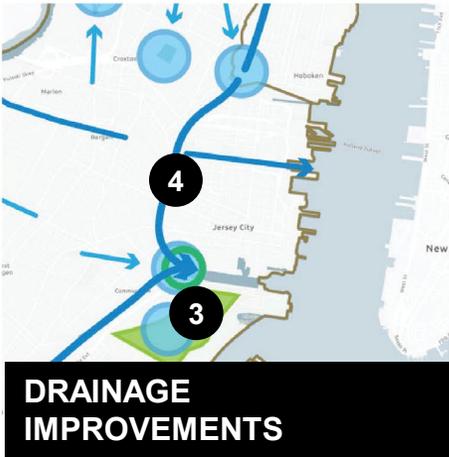
## 1. ELEVATED BOARDWALK INTEGRATED WITH NATURE BASED COASTAL PROTECTIONS

Pier 26, Hudson River Park  
New York City



## 2. RAISED AND REINFORCED ROADWAY

Mount Cotton Road  
Queensland, Australia



## 3. URBAN STORMWATER RETENTION PARK

Qunli Stormwater Wetland Park  
Haerbin, China



## 4. BLUE & GREEN INFRASTRUCTURE INTEGRATED WITH ELEVATED HIGHWAY

Via Verde  
Mexico City



## 5. GREEN INFRASTRUCTURE ON PRIVATELY OWNED SPACES

First Avenue Water Plaza  
Manhattan, New York City



## 6. BLUE & GREEN ROOFS

Osbourne Association  
South Bronx, New York City

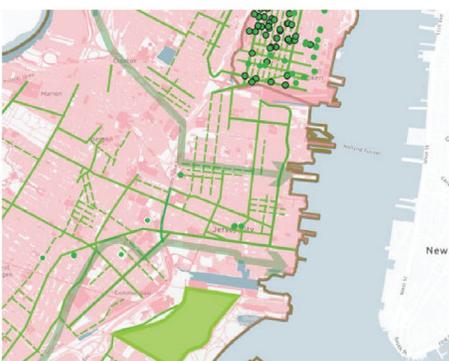
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**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**OBJECTIVES, SCENARIO 2**

Use existing highway, road, rail and boardwalk infrastructure integrated with new flood barriers and raised walkways.

Consolidate drainage infrastructure to create new and expanded conveyance pathways and expand retention areas in conjunction with partners.

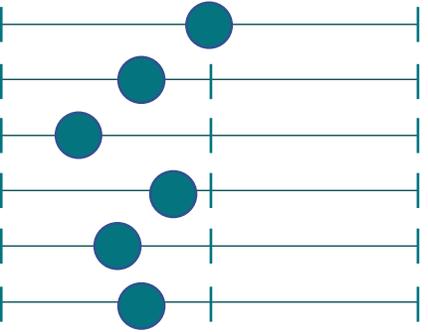
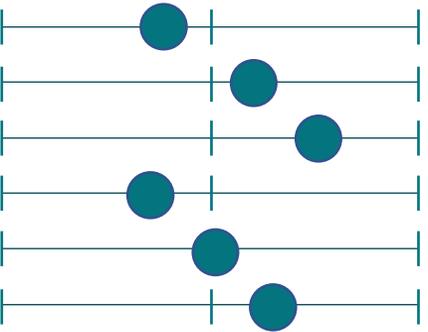
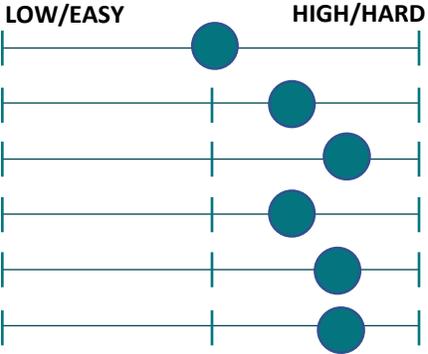
Expand green infrastructure to secondary corridors and beyond public sites to incentivize additional GI on private properties. Target large parcels to implement regional GI practices.

**KEY CONSIDERATIONS, SCENARIO 2**

- CONSTRUCTION TIME
- IMPACT TO PUBLIC ACCESS & USE
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**ISSUES TO CONSIDER**

Expanding protection using existing corridors results in more comprehensive and cohesive protection **BUT** extending protection will require additional coordination with agencies and other property owners.

Separating stormwater and directing to new outfalls gets water out of the sewer system and improves water quality **BUT** requires significant investment and coordination before benefits can be realized.

Expanding GI to private properties provides broader watershed management **BUT** results in a greater number of assets that need to be inspected and maintained to provide protection.

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## NON-PHYSICAL SOLUTIONS, SCENARIO 2



**COASTAL PROTECTIONS**

Resilience advancements deepened through collaboration with community members, schools, and community-based organizations



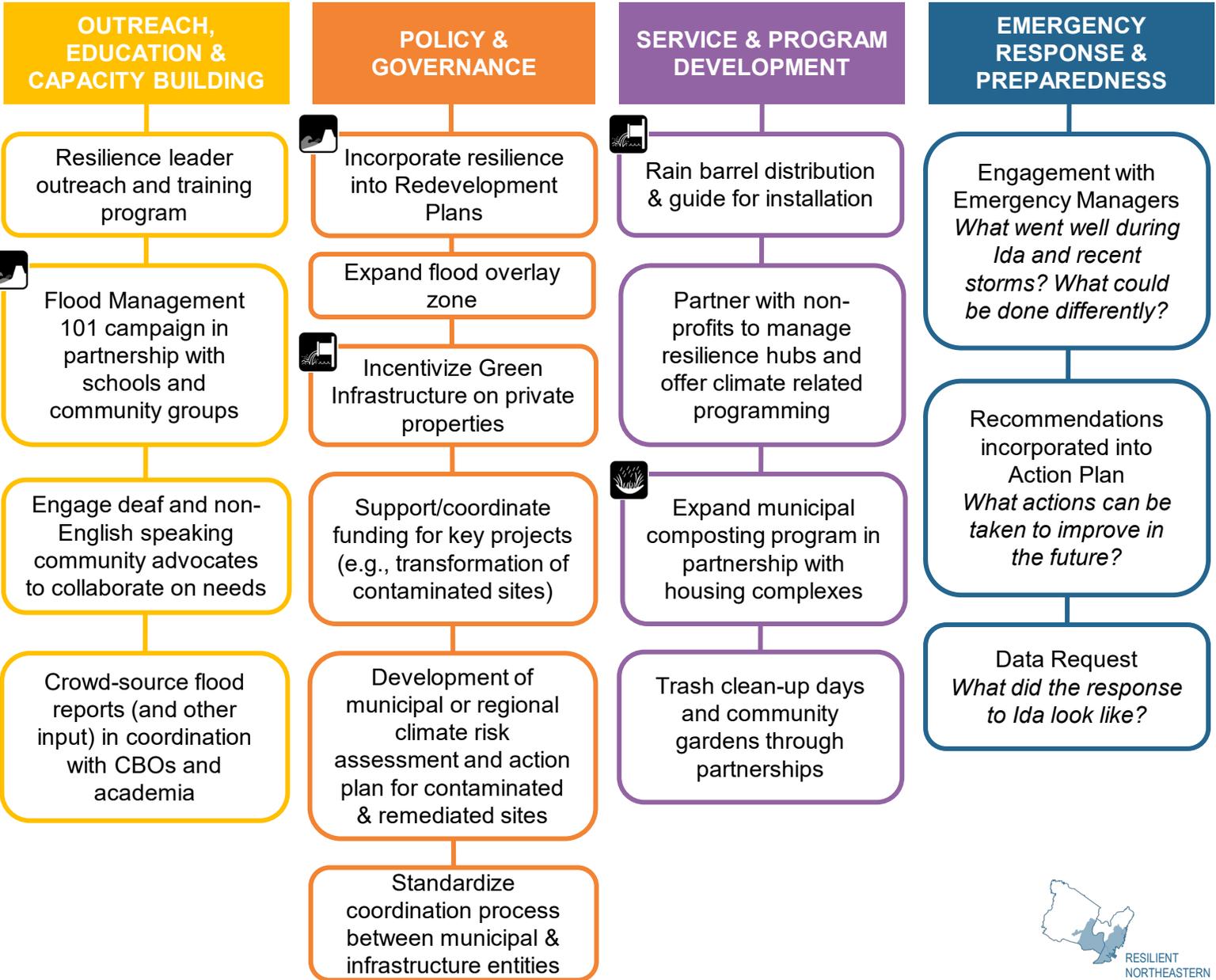
**DRAINAGE IMPROVEMENTS**

Partnerships in composting and trash clean-up help reduce drainage system clogging



**GREEN INFRASTRUCTURE**

Public private partnerships expand green infrastructure benefits





**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**QUESTIONS TO CONSIDER**

- Which streets or city properties do you want to see transformed?
- What greening projects would appeal to you most?
- Where would you like to see Resilience Hubs?

**WHAT DO YOU LIKE ABOUT SCENARIO 2?**

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**WHAT DO YOU DISLIKE ABOUT SCENARIO 2?**

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# SCENARIO 3 REGIONAL COORDINATION

## EXISTING CONDITIONS

- PROJECTS ALREADY PLANNED OR IN PROGRESS
- EXISTING OUTFALLS
- LTCP STORAGE TANKS
- PROPOSED GREENWAY CORRIDORS (BY OTHERS)

## RESILIENT NJ MEASURES

- COASTAL PROTECTION ALIGNMENTS
- POTENTIAL ALTERNATE COASTAL ALIGNMENTS
- GREEN INFRASTRUCTURE CORRIDORS
- SUGGESTED FLOW PATHS
- SUGGESTED RETENTION AREAS
- PUMP STATIONS
- PROPOSED GREENWAY CORRIDORS
- AREAS OUTSIDE PROTECTIONS
- REDEVELOPMENT AREAS
- SITES TO ADAPT
- POSSIBLE RESILIENCE HUB LOCATION

## NON-PHYSICAL SOLUTIONS

- 1 CREATE A "SINGLE SOURCE OF TRUTH" FOR RESILIENCE-RELATED INFORMATION AND RESOURCES
- 2 REGIONAL GI CHAMPIONS TRAINING PROGRAM
- 3 DEVELOP PIPELINE OF SITES FOR STORMWATER MANAGEMENT / RESILIENT TRANSFORMATION OF BROWNFIELDS & CONTAMINATED SITES
- 4 REGIONAL TREE PLANTING PROGRAM
- 5 REGIONAL NETWORK OF RESILIENCE HUBS
- 6 REGIONAL PROGRAM DEVELOPMENT AND SUPPORT FOR COMPOSTING AND WASTE REDUCTION CAMPAIGNING



3 CREATE NEW INLAND PATH FOR HUDSON RIVER WALKWAY INTEGRATED WITH FLOOD PROTECTIONS & SURROUNDING PROJECTS



STORMWATER RETENTION WETLANDS

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# KEY CHANGES, SCENARIO 3



## 1. FLOOD PROTECTIONS INTEGRATED WITH PUBLIC INFRASTRUCTURE

Chicago Riverwalk



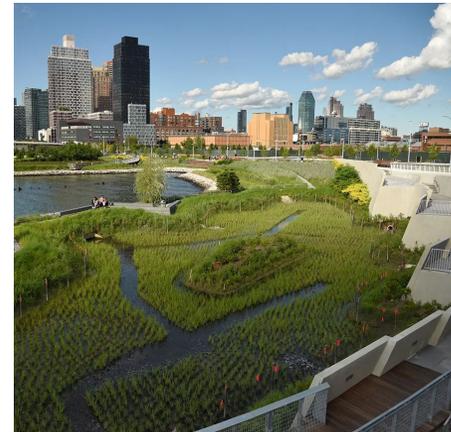
## 2. FLOODABLE PUBLIC INFRASTRUCTURE

Domino Park  
Brooklyn, New York City



## 3. DEEP TUNNEL STORMWATER CONVEYANCE & STORAGE

DigIndy  
Indianapolis, Indiana



## 2. STORMWATER RETENTION AT COASTAL WETLAND

Hunter's Point  
Brooklyn, New York City



## 5. REGIONAL URBAN GREENWAY

The BeltLine  
Atlanta, Georgia



## 6. R.O.W GREEN INFRASTRUCTURE FOR STORMWATER MANAGEMENT

Swale on Yale  
Seattle, Washington

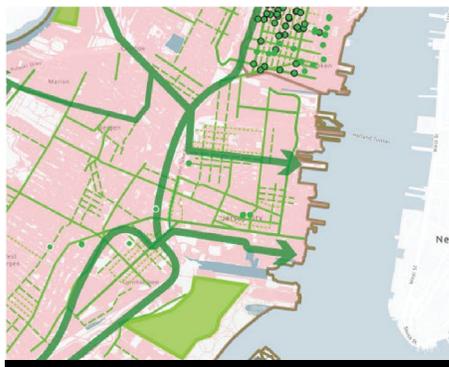
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**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**OBJECTIVES, SCENARIO 3**

Utilize existing highway and boardwalk infrastructure integrated with new continuous flood barriers and raised walkways along the Hudson.

Drainage is integrated with greenway corridors & wetland projects as well as a deep tunnel that directs flows to in-water storage in the Morris Canal Basin.

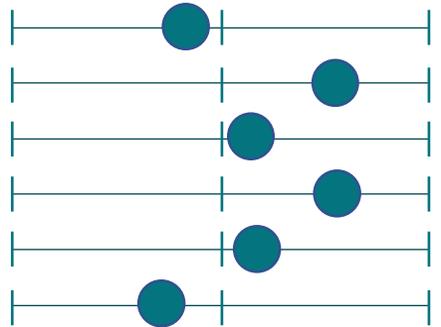
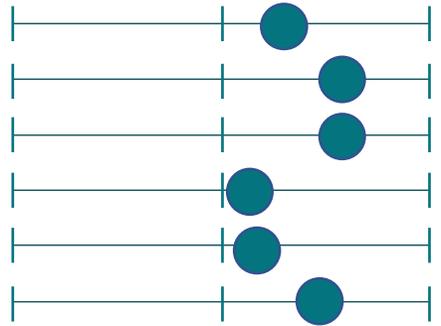
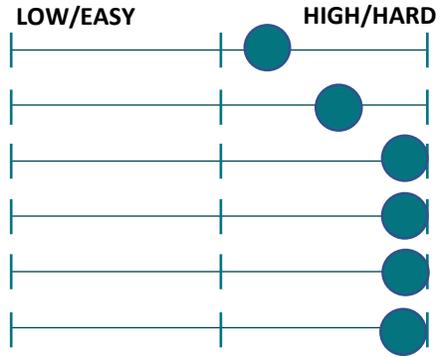
Build additional green infrastructure improvements into drainage corridors and other projects to promote a “dig once” approach.

**KEY CONSIDERATIONS, SCENARIO 3**

- CONSTRUCTION TIME
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**ISSUES TO CONSIDER**

A barrier along the Hudson ensures all properties are protected **BUT** would greatly change the character of the shoreline at a significant cost.

Interior drainage corridors align with natural topography **BUT** require land use changes for surface conveyance or expensive deep tunnels and pumping for subsurface conveyance.

Incorporating additional GI into drainage corridors and other projects improves cost-effectiveness **BUT** requires conversion of existing uses to natural stormwater management.

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**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**NON-PHYSICAL SOLUTIONS, SCENARIO 3**

Continuing and expanding the Resilient NENJ program could allow the region to learn from, build on, and advance work completed to date

A regional infrastructure coordination council help maximize resilience in planned infrastructure improvements and limit disruption to communities

A regional network of resilience hubs could help CBOs and municipalities coordinate and share resources and information in times of disaster

**OUTREACH, EDUCATION & CAPACITY BUILDING**

Continuation of Resilient NJ Program

Expansion into sustainability and more measures of livability

Regional-scale distribution of Flood Management 101 campaign

Leverage RNJ as a coordinated engagement platform around resilience-related issues

Create a 'single source of truth' and go-to resource/messaging for all things resilience-related

**POLICY & GOVERNANCE**

Ensure LTCP projects incorporate climate change considerations

Regional coordination to increase land use / flood standards beyond minimum

Regional GI champions training program

Develop pipeline of sites for stormwater management/resilient transformation process

State/regional climate risk assessment for contaminated/ remediated areas

Create regional Infrastructure Coordination Council (and dig once)

Regional stormwater utility

**SERVICE & PROGRAM DEVELOPMENT**

Regional tree planting program

Regional network of resilience hubs

Regional program development and support for composting and waste reduction campaigning

**EMERGENCY RESPONSE & PREPAREDNESS**

Engagement with Emergency Managers  
*What went well during Ida and recent storms? What could be done differently?*

Recommendations incorporated into Action Plan  
*What actions can be taken to improve in the future?*

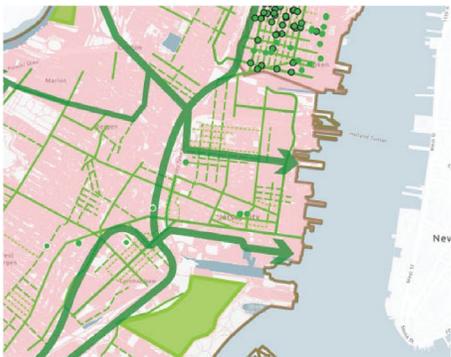
Data Request  
*What did the response to Ida look like?*



**COASTAL PROTECTIONS**



**DRAINAGE IMPROVEMENTS**



**GREEN INFRASTRUCTURE**

**QUESTIONS TO CONSIDER**

- Which streets or city properties do you want to see transformed?
- What greening projects would appeal to you most?
- Where would you like to see Resilience Hubs?

**WHAT DO YOU LIKE ABOUT SCENARIO 3?**

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**WHAT DO YOU DISLIKE ABOUT SCENARIO 3?**

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# DISCUSSION & QUESTIONS

*Of everything we've discussed, what is the most important thing to advance in this area?*

*What do you want to make sure does not happen?*

