A more resilient New York City

#ONENYC

"A more resilient NYC is one where neighborhoods, buildings and infrastructure can withstand and recover quickly from flooding and climate events.

Coastal defenses are strengthened as first line of defense against flooding and sea level rise.

Buildings are designed to withstand and recover from flooding.

Infrastructure is protected from climate hazards.

Residents and businesses are prepared.
DCC Climate Resiliency Initiatives

**Flood Text** (2013) initial, temporary regulations building off EO 230

**SRNR** (2015) provides additional zoning relief to expedite recovery

**Local Rezonings** (2017) In vulnerable areas of Queens and Staten Island

**Flood Text II** (2018) to be updated and made permanent

- **Executive Order 230** (2012) mayoral override of zoning
- **PFIRM + Freeboard** (2012) DOB requires most restrictive map; additional elevation
- **SIRR Report** (2013) long-term, citywide resiliency framework
- **Build it Back** (2015) lessons learned in rebuilding effort inform zoning changes
- **Neighborhood Studies** (2014-17) will inform the text and local rezonings
- **Resilient Retail & Resilient Industry** (2014-17) will inform the text
- **One New York** (2015) moves from recovery to future resiliency
2013 Citywide Flood Resilience Text Amendment

*Intended to be updated based on lessons learned, expires 1 year after adoption of PFIRMs.

- **Height**: increased the height limit of all buildings in the floodplain by allowing height to be measured from the Design Flood Elevation (DFE), and in some cases, a higher reference point
- **Floor area**: allowed discounting of floor space when lost in order to come into compliance with the latest building standards (raised entryways, mechanical space, floodproofed areas)
- **Retrofitting older buildings**: overrides typical zoning rules for non-complying and non-conforming buildings, giving them wide latitude to retrofit and rebuild.
- **Design standards**: required elevated buildings to mitigate their impact on the streetscape

**APPROVED**
Flood risk in East Shore of SI

Map showing areas at risk of flooding in East Shore of SI, with specific locations like Oakwood Beach, New Dorp Beach, Midland Beach, and South Beach marked. The map includes a legend for the 2015 Preliminary Flood Insurance Rate Maps, indicating different zones such as V Zone, Coastal A Zone, A Zone, Shaded X Zone, and Limit of Moderate Wave Action (LMWA). The number of buildings in each zone is also shown: 461 Coastal A Zone buildings, 9,985 A Zone buildings, and 2,057 X Zone buildings.
**Approach to future zoning + land use strategies**

Where flood risk is exceptional, including places identified as buyout areas.

Where risk from extreme events can be managed through infrastructure and context can support growth.

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**Limit**
Zoning and other tools should limit exposure to damage and disruption by limiting the density future development.

**Accommodate**
Adjust zoning to allow buildings to retrofit, by providing flexibility and removing obstacles to resiliency investments.

**Encourage**
Encourage construction of new development built to a higher standard of flood protection.
<table>
<thead>
<tr>
<th>Reduce Flood Risk</th>
<th>Advance Resilient Building</th>
<th>Strengthen Key Waterfront Destinations</th>
<th>Preserve Natural Environments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Army Corps Line of Protection + interior drainage</td>
<td>Cottage Envelope Accommodate</td>
<td>New Dorp Beach Accommodate</td>
<td>Midland Avenue &amp; Sand Lane Encourage</td>
</tr>
<tr>
<td>Local Land-Use Action</td>
<td>Citywide Flood Text</td>
<td>Local Zoning Action</td>
<td>Limit Density in NYS Enhanced Buyout Areas Limit</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Local Zoning Action</td>
</tr>
</tbody>
</table>

*NYS Buyout Area boundaries shown for illustrative purposes

Approved
East Shore Projected Milestones

2017

1st Qtr 2nd Qtr 3rd Qtr 4th Qtr

East Shore Report release
City Council adopted East Shore Buyout Areas text
Ongoing: Draft proposal for Midland Ave/Sand Lane/New Dorp proposal & DCP Citywide Flood Text Amendment Update

2018

1st Qtr 2nd Qtr Beyond

Begin Environmental Review/public review for Midland Ave/Sand Lane/New Dorp proposal & DCP Citywide Flood Text Amendment Update
Execute Construction Agreement with NYS & NYC
Initial Construction contract awards (Late 2019)

2017

US Army Corps of Engineers

NYC Parks

NYC Environmental Protection

Governor's Office of Storm Recovery

NYC Recovery

Army Corps Line of Protection and interior drainage - Design Phase Ongoing

DPR Shoreline Parks Plan Interim Report published in June 2017

Enhanced Buyout Areas
- Oakwood Beach - Acquired 303 properties & 80% land returned to open space
- Graham Beach – Acquired 101 properties & 60% land returned to open space
- Ocean Breeze – Acquired 90 properties & 66% land returned to open space

Built it Back
- 100% of City-managed projects started construction
- 92% of City-managed projects in SI are complete
- 91% of City-managed projects Citywide are complete

City Acquisition & Buyout
- Build it Back is purchasing severely damaged homes in SI, continuing to work with homeowners in BiB

2017

1st Qtr 2nd Qtr 3rd Qtr 4th Qtr

New Creek Bluebelt low flow channel (NC-7 & NC-8, and channel portions of NC-9 & NC-17 - Ongoing

Last Chance Pond Park (NC-11 & NC-12) work to begin
Hylan Boulevard (NC-13) work to begin

2018

1st Qtr 2nd Qtr Beyond

Final phase of conceptual plan to begin - Stay tuned for kick off community meeting in Spring 2018

2018

1st Qtr 2nd Qtr Beyond

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East Shore Resiliency Open House

NYC Planning
NYC Parks
NYC Recovery
NYC Emergency Management
NYC Environmental Protection

Mayor's Office of Recovery & Resiliency
New York City DOT
NYC Department of Housing Preservation & Development
NYC NY Rising
Governor's Office of Storm Recovery

US Army Corps of Engineers