

East Shore Resiliency Open House

September 26, 2017



NYC Parks



Department of Environmental Conservation



Governor's Office of Storm Recovery



US Army Corps of Engineers

#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

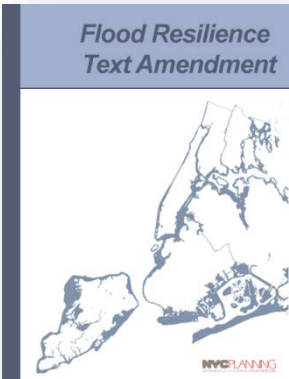
Buildings
are designed to
withstand and
recover from
flooding

Infrastructure is
protected from
climate hazards

**Residents
and businesses**
are prepared

DCP Climate Resiliency Initiatives

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



SRNR (2015) provides additional zoning relief to expedite recovery



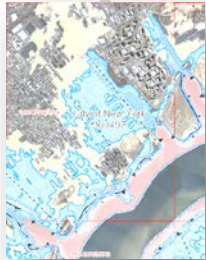
Local Rezonings (2017) In vulnerable areas of Queens and Staten Island



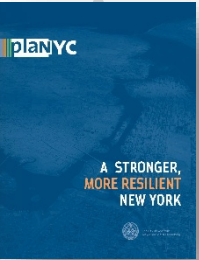
Flood Text II (2018) to be updated and made permanent



Executive Order 230 (2012) mayoral override of zoning



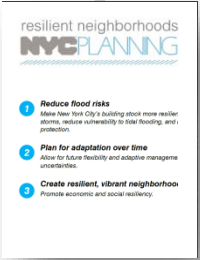
PFIRM + Freeboard (2012) DOB requires most restrictive map; additional elevation



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

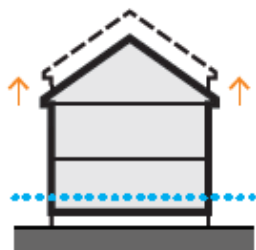


One New York (2015) moves from recovery to future resiliency

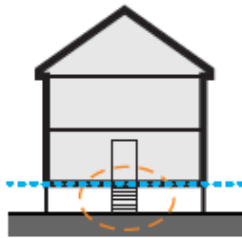
2013 Citywide Flood Resilience Text Amendment

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

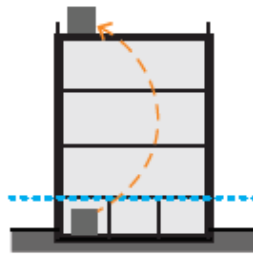
- **Height:** increased the height limit of all buildings in the floodplain by allowing height to be measured from the Design Flood Elevation (DFE), and in some cases, a higher reference point
- **Floor area:** allowed discounting of floor space when lost in order to come into compliance with the latest 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



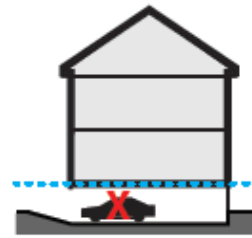
Height
must recognize elevation requirements in flood zones



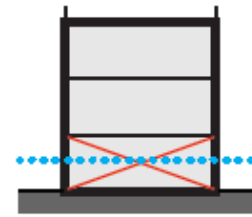
Access
need for stairs/ramps requires imaginative solutions



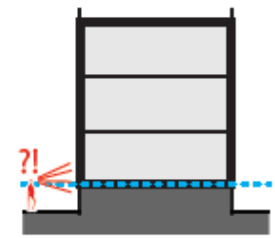
Mechanical Systems
must allow relocation out of flood-prone areas



Parking
may not be possible below ground



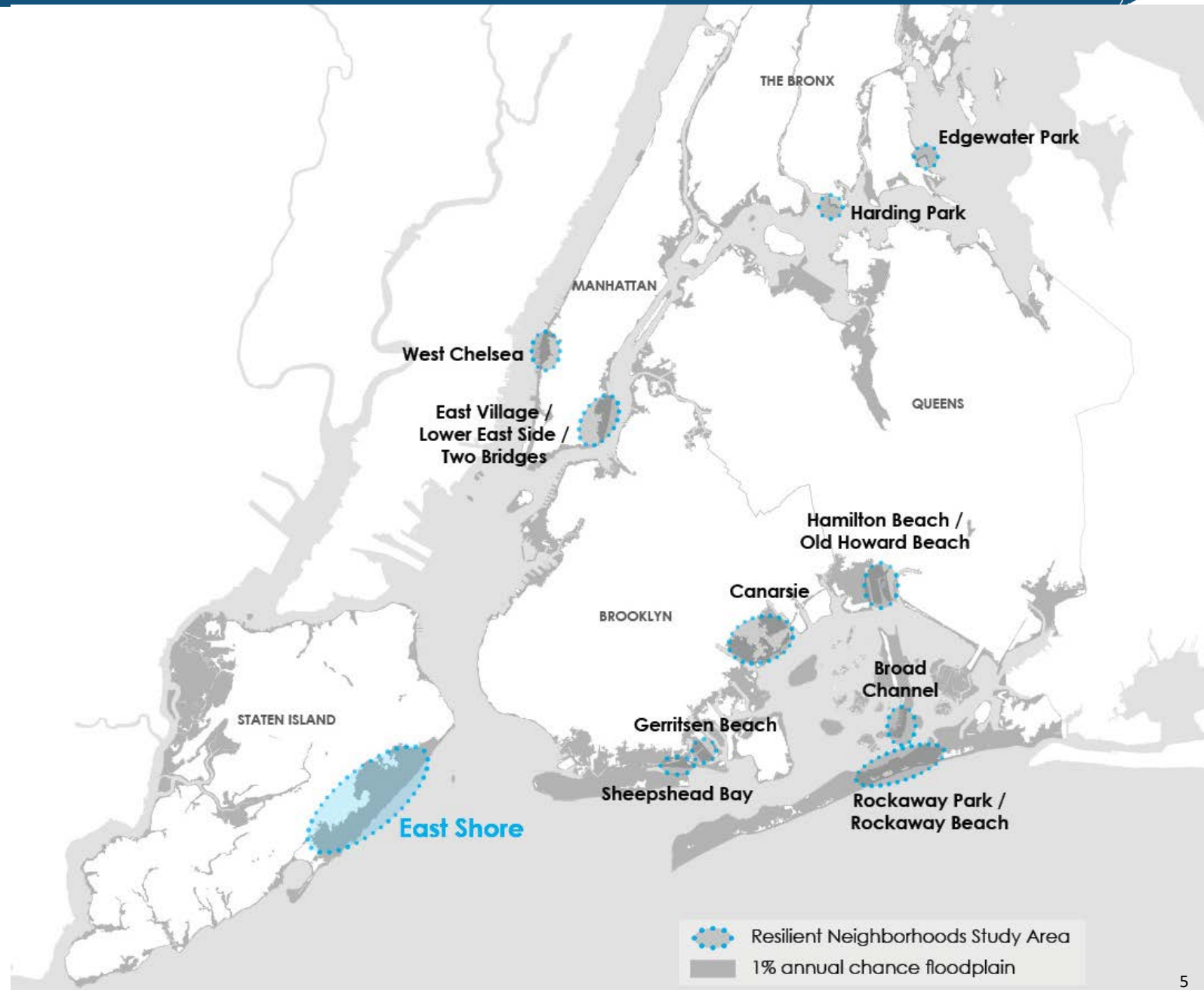
Ground Floor Use
buildings may be allowed only limited use of ground floors



Streetscape
limit negative effect of blank walls on streetscape

APPROVED

Resilient Neighborhoods Study Areas



Flood risk in East Shore of SI



Data: FEMA FIRIMS (2015), NYC Department of City Planning

2015 Preliminary Flood Insurance Rate Maps

- V Zone
- Coastal A Zone
- A Zone
- Shaded X Zone (0.2% annual chance floodplain)
- Limit of Moderate Wave Action (LIMWA)
- Study Area Boundary



Total Number of Buildings by Flood Zone

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.

Flood risk and local planning considerations



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.

East Shore Resilient Neighborhoods Study



Community Advisory Committee



Business Community



Interagency Coordination



Borough President's Sandy Task Force

East Shore Resilient Neighborhoods Study



Reduce Flood Risk	Advance Resilient Building		Strengthen Key Waterfront Destinations	Preserve Natural Environments
Army Corps Line of Protection + interior drainage	Cottage Envelope <i>Accommodate</i>	New Dorp Beach <i>Accommodate</i>	Midland Avenue & Sand Lane <i>Encourage</i>	Limit Density in NYS Enhanced Buyout Areas <i>Limit</i>
Local Land-Use Action	Citywide Flood Text	Local Zoning Action	Local Zoning Action	Local Zoning Action

Approved

*NYS Buyout Area boundaries shown for illustrative purposes

East Shore Projected Milestones



2017

2018

1st Qtr

2nd Qtr

3rd Qtr

4th Qtr

1st Qtr

2nd Qtr

Beyond



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

Begin Environmental Review/public review for Midland Ave/Sand Lane/New Dorp proposal & DCP Citywide Flood Text Amendment Update



US Army Corps of Engineers

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

Execute Construction Agreement with NYS & NYC

Initial Construction contract awards (Late 2019)



NYC Parks

DPR Shoreline Parks Plan Interim Report published in June 2017

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



NYC Environmental Protection

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



Governor's Office of Storm Recovery

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



NYC Recovery

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

East Shore Resiliency Open House



US Army Corps of Engineers