

# East Shore Resiliency Open House

September 26, 2017



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

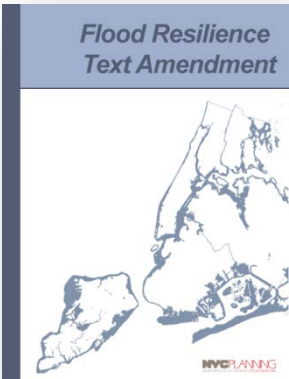
**Buildings**  
are designed to  
withstand and  
recover from  
flooding

**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



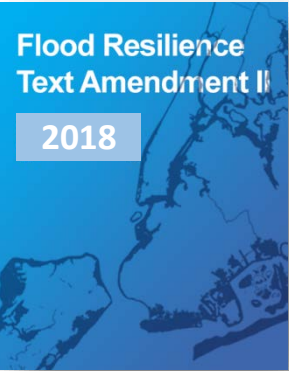
**SRNR (2015)** provides additional zoning relief to expedite recovery



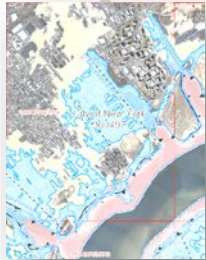
**Local Rezonings (2017)** In vulnerable areas of Queens and Staten Island



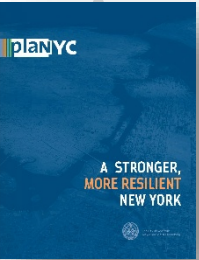
**Flood Text II (2018)** to be updated and made permanent



**Executive Order 230 (2012)** mayoral override of zoning



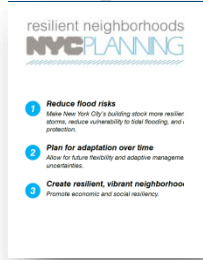
**PFIRM + Freeboard (2012)** DOB requires most restrictive map; additional elevation



**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

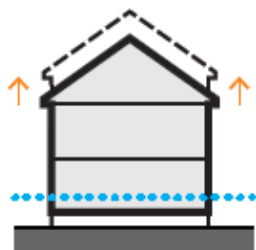


**One New York (2015)** moves from recovery to future resiliency

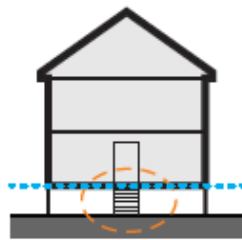
# 2013 Citywide Flood Resilience Text Amendment

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

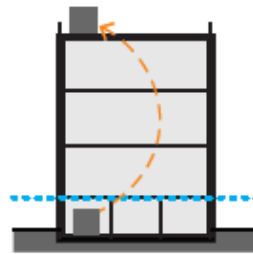
- **Height:** increased the height limit of all buildings in the floodplain by allowing height to be measured from the Design Flood Elevation (DFE), and in some cases, a higher reference point
- **Floor area:** allowed discounting of floor space when lost in order to come into compliance with the latest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



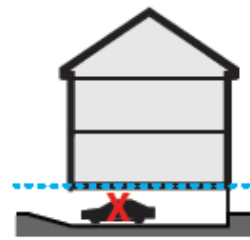
**Height**  
must recognize elevation requirements in flood zones



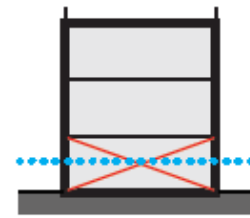
**Access**  
need for stairs/ramps requires imaginative solutions



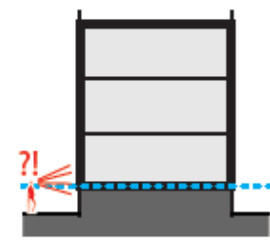
**Mechanical Systems**  
must allow relocation out of flood-prone areas



**Parking**  
may not be possible below ground



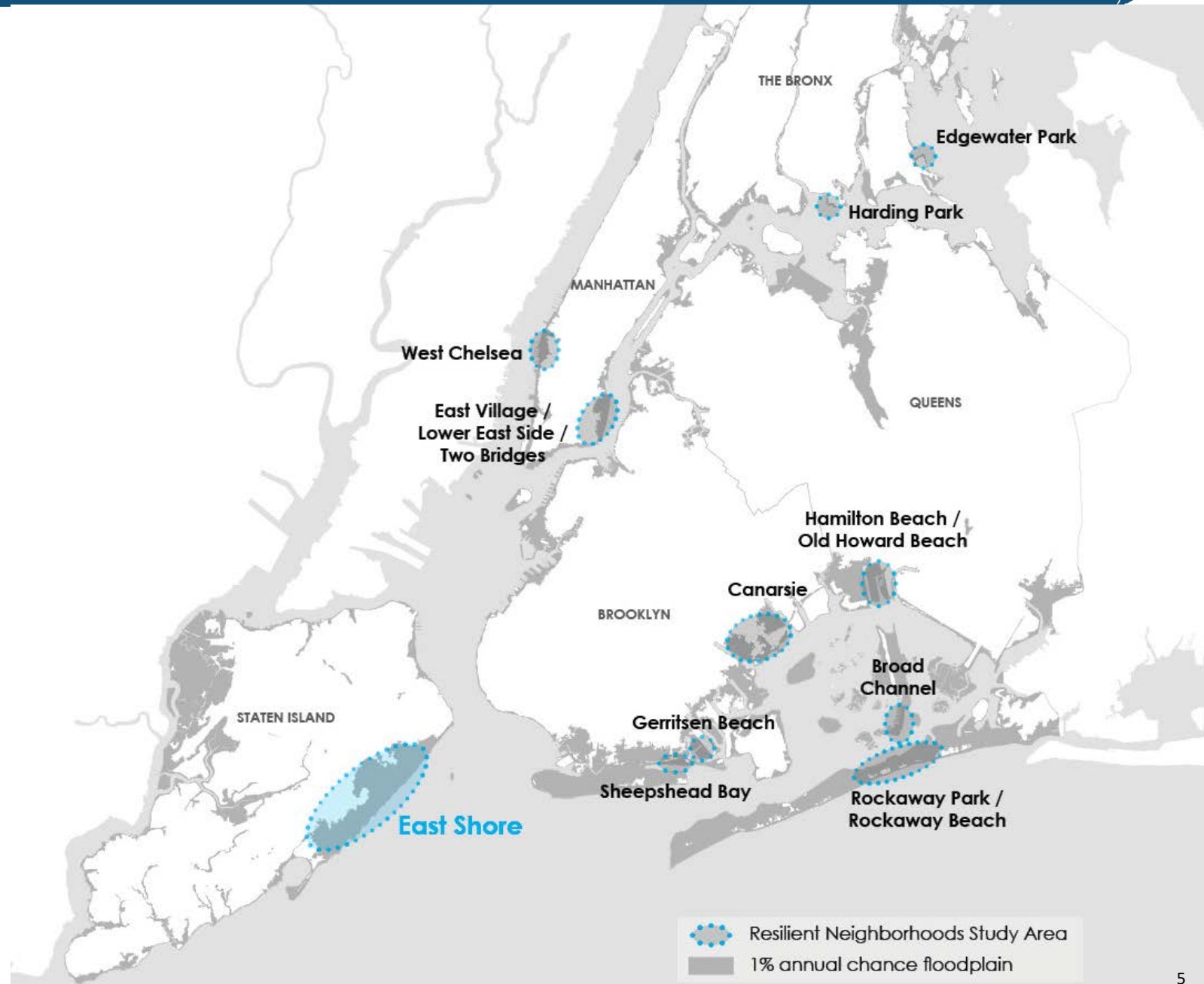
**Ground Floor Use**  
buildings may be allowed only limited use of ground floors



**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

**461**  
Buildings

**Coastal  
A Zone**

**9,985**  
Buildings

**A Zone**

**2,057**  
Buildings

**X Zone**

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



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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

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