Flood Resilience Zoning Text Update

Staten Island Community Board 1
Waterfront Committee

October 24, 2017





FEMA Flood MapCitywide Flood Risk

NYC's flood risk is high.

The floodplain affects a large geography and most community and council districts.

100 Year Floodplain

FEMA 2015 PFIRM

Population: **400,000 50** of 59 Community Boards Buildings: **71,500 45** of 51 Council Districts



Buildings:

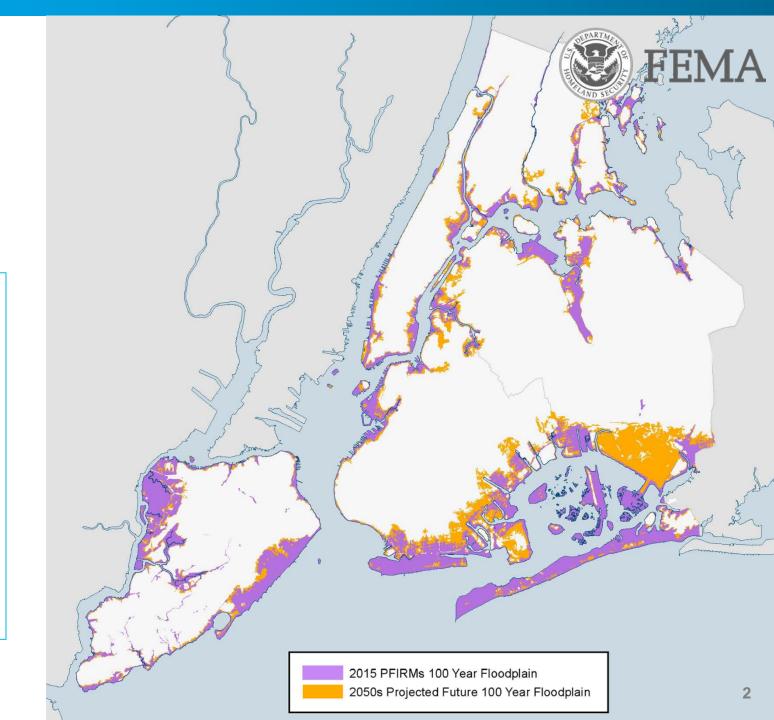
80% 1-4 units
7% 5+ units
13% nonresidential



Residential

Units:

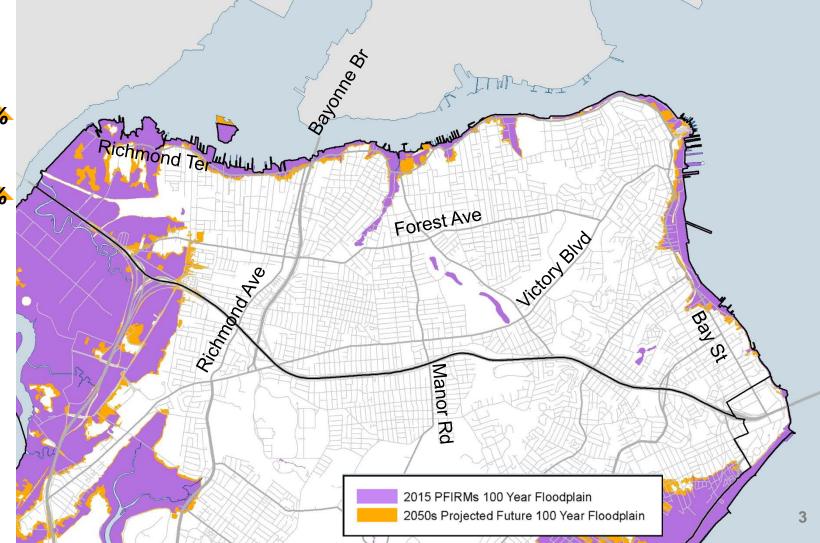
30% 1-4 units 70% 5+ units





FEMA Flood Map Flood Risk in Staten Island CB 1

	2015 PFIRMs	2050s Projected	
Res Units in Floodplain	2,400	3,680	91%
Buildings in Floodplain	1,150	2,200	91%

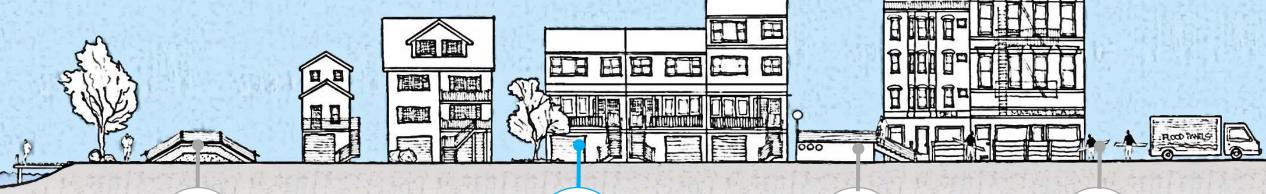




#ONENYC



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

How are buildings in the floodplain regulated?





Flood Insurance Rate Maps (FIRMs)

Determine where floodplain regulations apply



National Flood Insurance Program

Set up Insurance Rates depending on building elevation and other requirements



Construction
Standards (ASCE 24)

<u>Design minimum</u> <u>construction requirements</u> for flood hazard areas





Building Code (DOB)

Requires new buildings and substantial improvements to meet FEMA standards



Zoning Resolution (DCP)

Zoning <u>accommodates</u> these regulations and improves neighborhood character



Flood resilient construction Required by DOB



Building Code (DOB)

Requires new buildings and substantial improvements to meet FEMA standards

Required for all <u>new</u> buildings

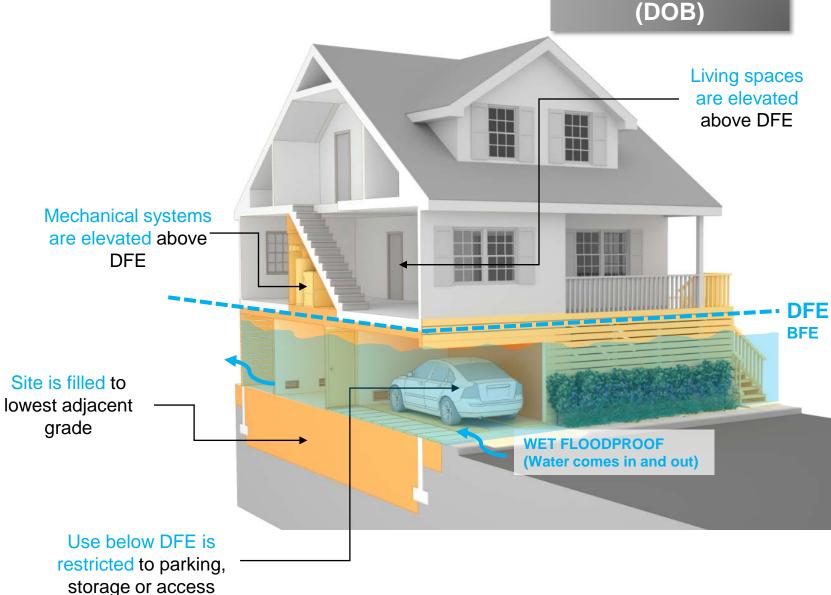
Not required for existing buildings (unless substantially damaged or improved) Substantially Substantially Damaged Improved

Substantially Damaged: Restoring Cost ≥ 50% Market Value Substantially Improved: Improvement Cost ≥ 50% Market Value



Flood resilient construction Required by DOB

Flood resilient construction standards require certain buildings to elevate the lowest floor, as well as mechanical equipment, above the Design Flood Elevation (DFE).

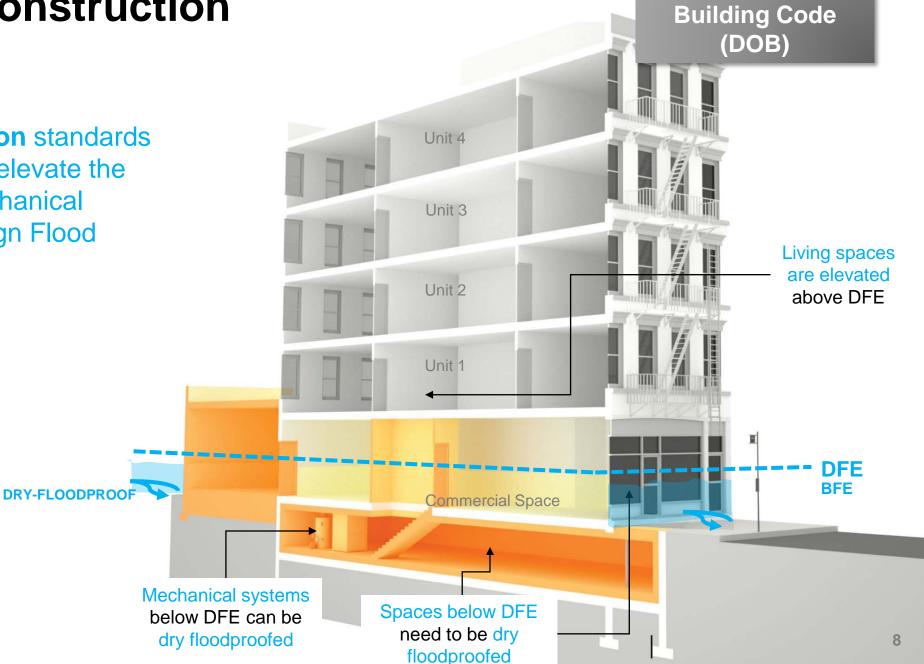




Building Code

Flood resilient construction Required by DOB

Flood resilient construction standards require certain buildings to elevate the lowest floor, as well as mechanical equipment, above the Design Flood Elevation (DFE).





Flood insurance rates Set by FEMA

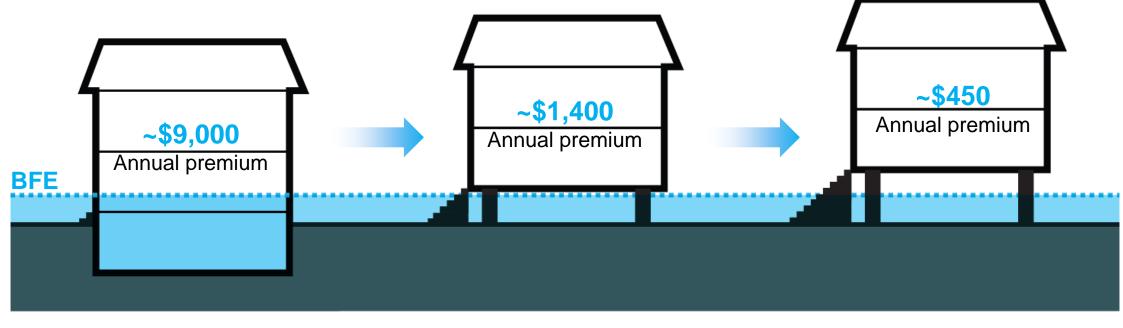
4 FEET OR MORE

BELOW BFE



Raising or retrofitting your building or home will reduce costs

FEMA's flood insurance premiums are lowest when the <u>lowest inhabited floor</u> (any area not used solely for storage, access or parking) is <u>elevated</u> above the **Base Flood Elevation (BFE).**

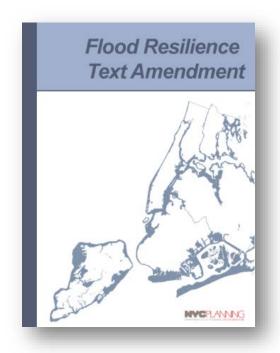




Flood Resilience Zoning

Projects at DCP





2013
"Flood Text"
initial temporary regulations to facilitate recovery







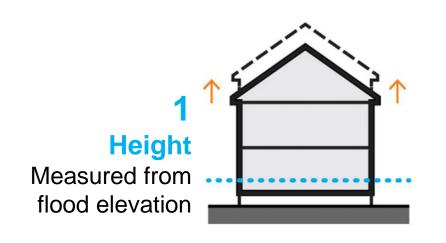
2018
"Flood Text Update"
improve upon, and make permanent, the Flood Text



2013 Citywide Flood Text

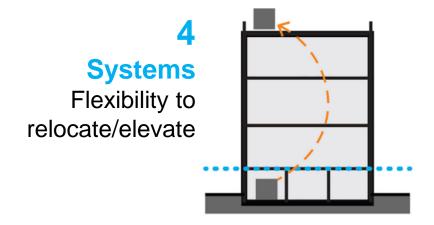
Amended zoning in six key areas

Zoning Resolution (DCP)















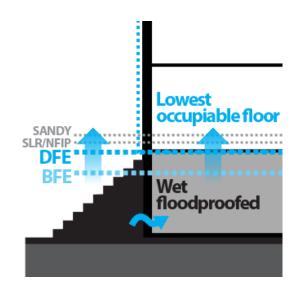
Zoning Resolution (DCP)

Flood Text Update Need for a new citywide text amendment



Goal 1

from Future Storms
by making the provisions
of the temporary Flood
Text permanent



Goal 2

Promote Long-Term Resiliency

by encouraging proactive retrofitting and development that is **safe in the long run**



Goal 3

Enhance Neighborhood Character

By encourage good resilient design within coastal communities



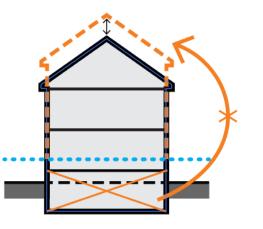
Flood Text Update

Fix and improve provisions based on lessons learned

Zoning Resolution (DCP)

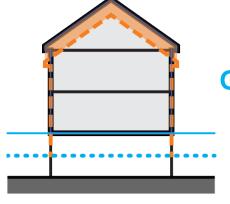


Homeowners may face the loss of subgrade spaces when retrofitting



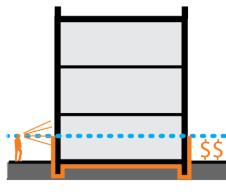
L Height

Property owners may want to address future risk by over-elevating



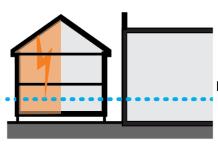
Ground Floors

Current incentives to keep active ground floors may not be enough



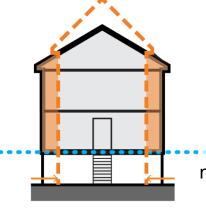
Homes in M Districts

Existing homes in M. Districts, if damaged, may not be able to rebuild



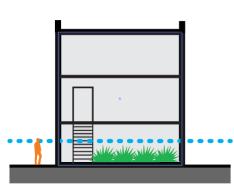
Old Homes on Small Lots

Old homes on small lots may need more flexibility to rebuild in the future



Improve Streetscape

Mitigate the effects of elevated buildings on neighborhood character





Flood Text Update Outreach

DCP plans a robust public engagement process:



As part of this outreach process, DCP will:

- Partner with stakeholders to educate and promote awareness of flood risk and resiliency issues
- Explain how zoning tools relate to resiliency
- Explore unique neighborhood issues through in-depth public presentations and workshops
- Develop a proposal through an **iterative process** that is shaped by feedback



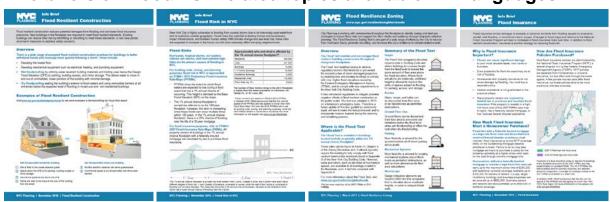
Outreach Resources



Planning a Resilient NYC video with captions in English and Spanish



Info briefs on flood risk-related topics available in 7 languages





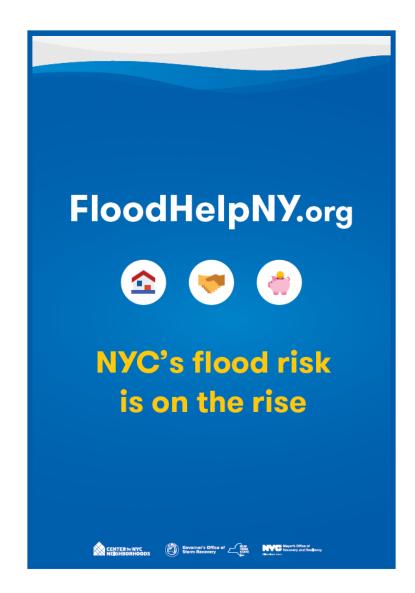
Thank you!

For more information, and to stay involved, email resilientneighborhoods@planning.nyc.gov



Resources for Homeowners





- FloodHelpNY.org
- Resiliency Home Audits
- Elevation Certificate (EC)
- NFIP Preferred Risk Policy (PRP)



NYC Federal Priorities





The Cost and Affordability of Flood Insurance in New York City

Economic Impacts of Rising Premiums and Policy Options for One- to Four-Family Homes

Lloyd Dixon, Noreen Clancy, Benjamin M. Miller, Sue Hoegberg, Michael M. Lewis, Bruce Bender, Samara Ebinger, Mel Hodges, Gayle M. Syck, Caroline Nagy, Scott R. Choquette



Ensure NFIP Affordability

Expand Mitigation Options and Premium Credits

Increase availability of mitigation funding for all building types

Improve communication to agents, real estate, property owners



Key Takeaways for Homeowners



- NYC's flood risk is rising; homeowners insurance does not cover floods
- Until the new maps are issued, flood insurance rates will continue to be based on the 2007 Effective FIRMs
- When revised maps are adopted, new flood insurance requirements will go into effect
- For those outside the high-risk floodplain, flood insurance can be as low as \$500/year
- Flood insurance policy is tied to the property

