RESILIENT NEIGHBORHOODS INITIATIVE: CANARSIE FRESH CREEK ASSOCIATION JUNE 17, 2017

TOTOLOUTIN





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

#ONE**NYC**

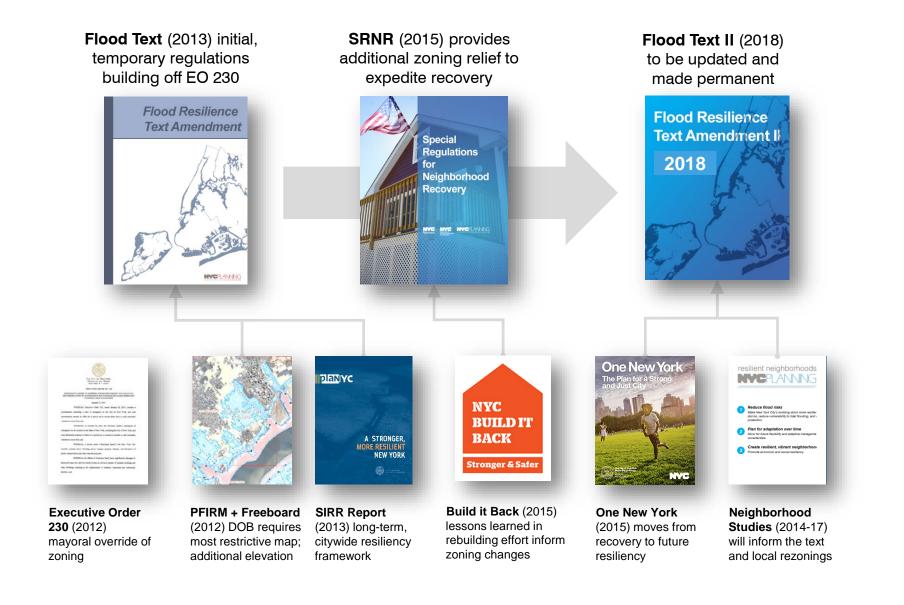
This requires multiple lines of defense:

- infrastructure hardening where feasible,
- emergency preparedness, and
- utilizing building code and zoning as tools so buildings are protected from future flooding due to sea level rise.



Flood resilience zoning (DCP)

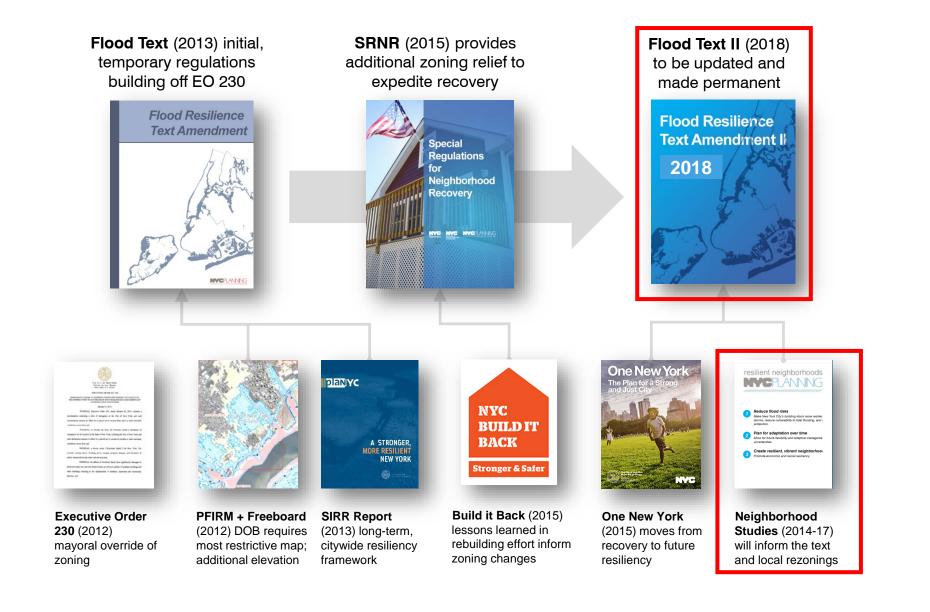






Flood resilience zoning (DCP)







Resilient Neighborhoods Initiative

Reduce flood risks

Develop zoning strategies and other tools to advance shortterm, cost-effective investments that can make New York City's building stock more resilient to severe storms and better protect our coastline.

Plan for adaptation over time

Climate change will increase coastal risks over time, including more tidal flooding in some areas. It is important to take measures to reduce the long-term vulnerabilities that neighborhoods will face over time.

Ensure neighborhoods are both resilient and vibrant

Encourage high-quality development that is both resilient and respects each neighborhood's built environment, such as by limiting building height and improving public space.





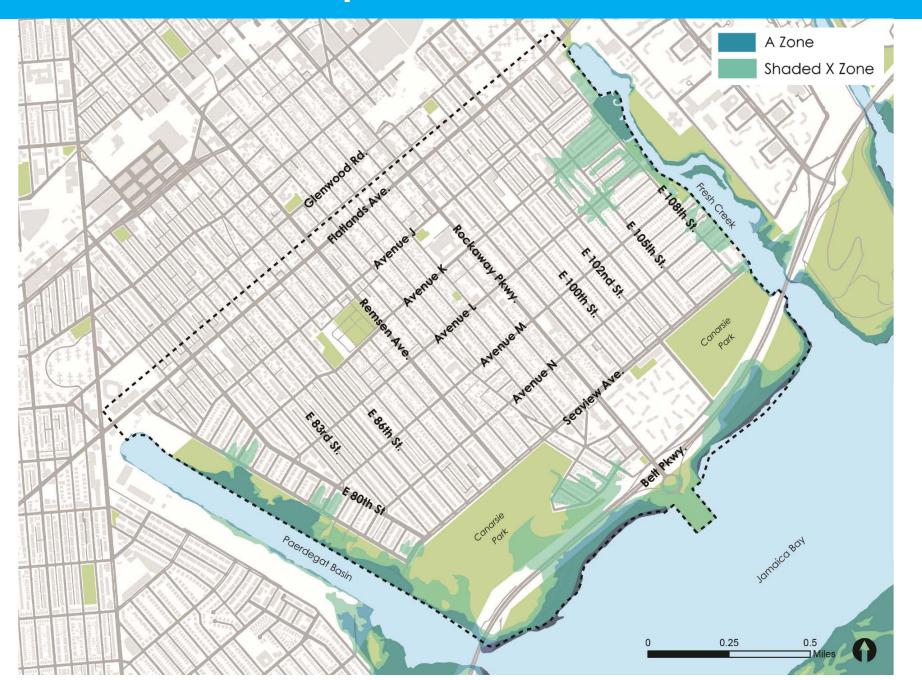
Timeline



- Spring 2013 Winter 2014 Canarsie New York Rising Program
- June 2014 Canarsie Resilient Neighborhoods Initiative Kickoff at CB18
- Fall 2014 Spring 2015 Community Advisory Committee Meetings
- June 2016 Fresh Creek Civic Association
- November 2016 Councilmember Maisel Briefing
- March 2017 Canarsie Climate Forum
- April 2017 Brooklyn Borough Board/CB 18 Presentation



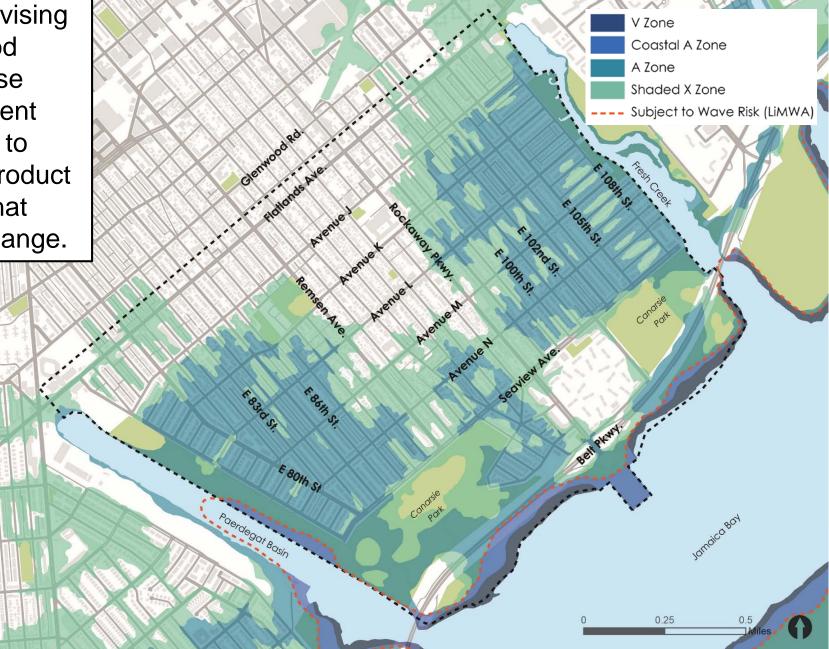
2007 Flood Insurance Rate Map





2015 Preliminary Flood Insurance Rate Map

FEMA is working in revising the New York City flood maps with more precise flood risk data for current conditions, in addition to creating a new map product for future conditions that account for climate change.





Canarsie's Building Types





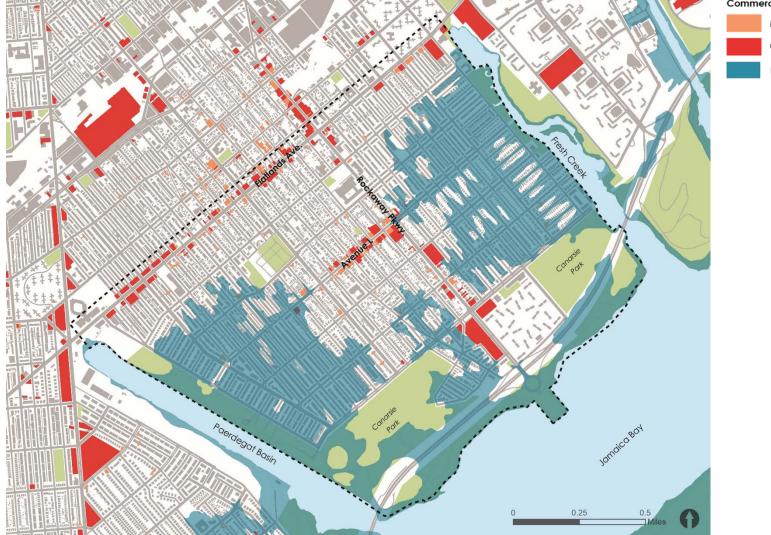
easier to retrofit

harder to retrofit



Canarsie's Retail Corridors





Commercial Uses

Mixed Commercial/Residential

Commercial/Office

PFIRM 1% Annual Chance Floodplain



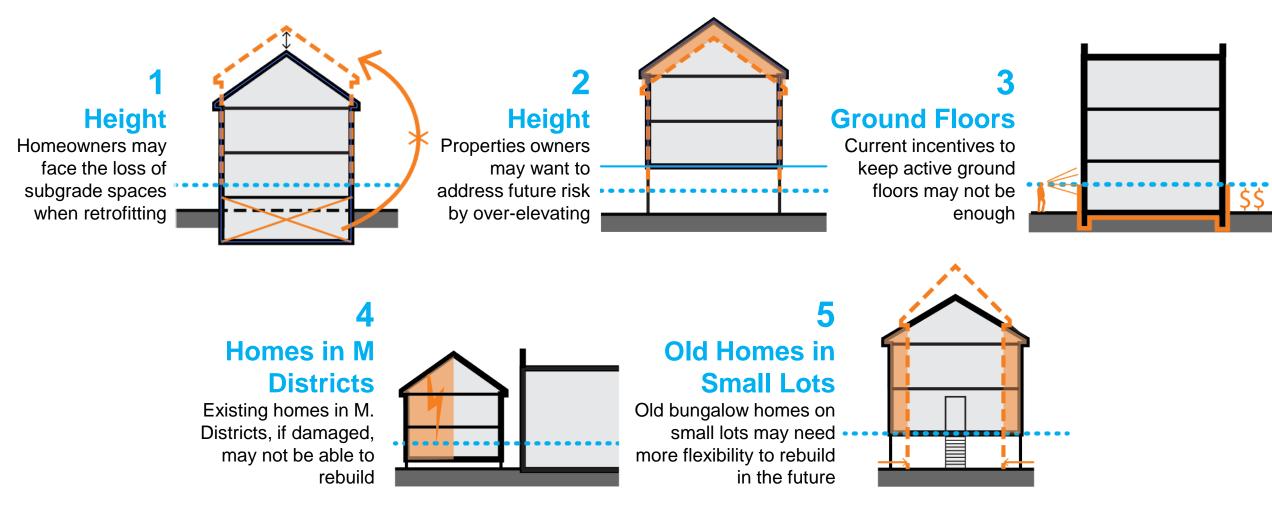
- Dense residential area of over 83,000 residents and 17,900 residential units
- 80% of units are in attached or semi-detached buildings
- 86% of homeowners have mortgages
- Many homes in Canarsie have critical systems such as heaters in cellars and basements that are below the DFE and subject to flooding
- Some homeowners have converted garages and storage spaces to residential areas such as dens or separate residential units



What We've Learned



Based on our work in Canarsie, and other floodplain communities, we've learned:





Resiliency Framework

ZONING STRATEGIES

Attached/Semi-detached Housing

Identify citywide zoning modifications that make it easier to undergo retrofitting and replace ground flood uses in vertical additions.



Detached Housing

Identify citywide zoning modifications that make it easier for detached homes to elevate to a height that allow for use of ground floor for parking and storage.



ADDITIONAL RESILIENCY STRATEGIES

Retail Corridors

Canarsie's retail corridors are not in the floodplain. Strategies should be pursued to strengthen existing and future businesses.

Potential for Coastal Protection

Canarsie is surrounded by city and federally owned parkland which could be leveraged to create coastal protection against serious flooding events

Zoning Strategies

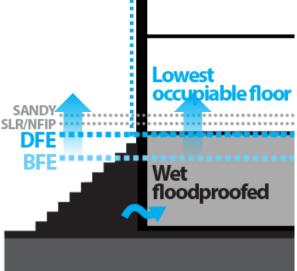


Flood Text II









2

Fix and **improve** provisions based on lessons learned from Resilient Neighborhood Studies and other areas in the floodplain

3

Begin to **promote** new development + proactive retrofitting to high resiliency standards





Given the difficult issues involved, 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

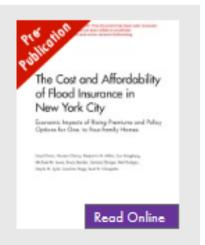




The Cost and Affordability of Flood Insurance in New York City

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

by Lloyd Dixon, Noreen Clancy, Benjamin M. Miller, Sue Hoegberg, Michael M. Lewis, Bruce Bender, Samara Ebinger, Mel Hodges, <u>Gayle M. Syck</u>, Caroline Nagy, Scott R. Choquette Related Topics: Community Resilience, Flooding, Insurance, New York City, Residential Housing



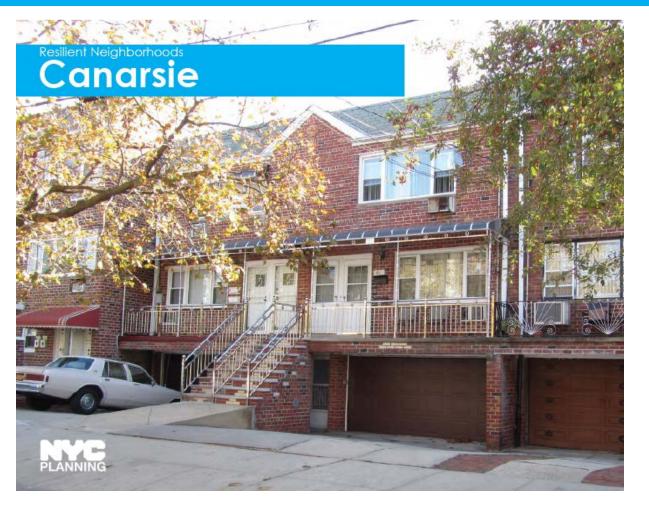
Key Findings/Next Steps

- Many neighborhoods including Canarsie will be especially hard hit when risk increases and rates move toward actuarial rates. Rates could reach up to \$4000 a year.
- City is advocating that FEMA explore more cost-effective retrofitting strategies.



Next Steps





- Report released in May
- Flood Risk Atlas
- 2017-2018 outreach on Flood Text II
- Proposed zoning modifications will be part of Flood Text II

www.nyc.gov/resilientneighborhoods





Flood risk information and address lookup

floodhelpny.org

Free Home Resiliency Audit Program (includes professional engineering audit, elevation certificate, and personalized home resiliency plan) floodhelpny.org/en/rtapp_landing

For more information and updates visit our website: www.nyc.gov/resilientneighborhoods or email us: ResilientNeighborhoods@planning.nyc.gov

