LIC CORE STUDY
COMMUNITY WORKSHOP
LAND USE, AFFORDABLE HOUSING, CLIMATE RESILIENCY
AUGUST 8th, 2017
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**
Buildings: **71,500**

50 of 59 Community Boards
45 of 51 Council Districts

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

Residential Units:
- 30% 1-4 units
- 70% 5+ units

Sources: MapPLUTO; FEMA 2015 Preliminary Flood Insurance Rate Map
Flood risk in LIC Context Area

<table>
<thead>
<tr>
<th>PFIRM 1% Annual Chance</th>
<th>PFIRM 0.2% Annual Chance</th>
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<tbody>
<tr>
<td>Residential Units in Floodplain</td>
<td>6,413</td>
</tr>
<tr>
<td>Buildings in Floodplain</td>
<td>388</td>
</tr>
</tbody>
</table>

Sources: MapPLUTO; FEMA 2015 Preliminary Flood Insurance Rate Map
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)**
Design minimum construction requirements for flood hazard areas

**Building Code (DOB)**
Requires new buildings and substantial improvements to meet FEMA standards

**Zoning Resolution (DCP)**
Zoning accommodates these regulations and improves neighborhood character
Amended zoning in six key areas

1. **Height**
   - Measured from flood elevation

2. **Access**
   - Flexibility for stairs, ramps, and lifts

3. **Parking**
   - Flexibility to relocate parking

4. **Systems**
   - Flexibility to relocate/elevate

5. **Ground Floors**
   - Account for costs of new flood risk

6. **Streetscape**
   - Require features to mitigate blank wall

*Intended to be updated based on lessons learned, expires 1 year after adoption of PFIRMs.*
2018 Flood Text Update

Need for a new citywide text amendment

1. Make the provisions of the current, temporary 2013 Flood Text permanent
2. Fix and improve provisions based on studies, lessons learned, and outreach
3. Begin to promote new development + proactive retrofitting to high resiliency standards
4. Encourage good resilient construction that enhances the character of coastal communities
Fix and improve provisions based on lessons learned

1. **Height**
   - Homeowners may face the loss of subgrade spaces when retrofitting.

2. **Height**
   - Property owners may want to address future risk by over-elevating.

3. **Ground Floors**
   - Current incentives to keep active ground floors may not be enough.

4. **Improve Streetscape**
   - Mitigate the effects of elevated buildings on neighborhood character.