Municipal Perspective: Developing data and maps to support planning and preparing for coastal resiliency

Katie DeLuca, AICP
Deputy Director of Planning and Zoning
Town of Greenwich

Planning and Zoning Department
AGENDA

- Coastal Resiliency and our *existing* Building Zone Regulations
- Mapping projects to support planning for a resilient coastal community
- Coastal Resiliency and our *proposed* Building Zone Regulations
EXISTING ZONING REGULATIONS

Freeboard
  • 1’ above BFE

Substantial Improvement
  • Start counting cumulative costs at the date of the FIRM that rendered the structure non-compliant (1986, 1999, 2013)
HOW RESILIENT ARE WE?

- **Question**
  How many structures in flood zones have first floor elevations below the base flood elevations?
- **Methodology**
- **Source**
# RESULTS

<table>
<thead>
<tr>
<th>Structures in AE and VE Flood Zones</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>With lowest floor below base flood elevation</td>
<td>107</td>
</tr>
<tr>
<td>With lowest floor above the base flood elevation</td>
<td>26</td>
</tr>
</tbody>
</table>

Planning and Zoning Department
CONCLUSIONS FROM THE STUDY OF ELEVATION CERTIFICATES

- We don’t have as many elevation certificates as we thought
- From the data we do have, we could be more resilient
- There is real value in maintaining the dataset as that theoretically is an effective gauge of resiliency

Planning and Zoning Department
Town of Greenwich, CT

Planning and Zoning Department
Town of Greenwich, CT
Areas of Change –
1999 FIRM compared to 2013 FIRM

Planning and Zoning Department
Planning and Zoning Department

Non-Compliant Homes and Areas of Change from 1999 FIRM to 2013 FIRM
Properties Damaged in Sandy

Planning and Zoning Department
Properties Damaged in Sandy Outside the Flood Zone

Planning and Zoning Department
Planning and Zoning Department
CONCLUSION

Maps have been instrumental in supporting and preparing for coastal resiliency:

- Identifying focus areas
- Relaying information
- Analyzing data and quantifying a problem