

# Nonstructural Measures

## Array of Nonstructural Measures

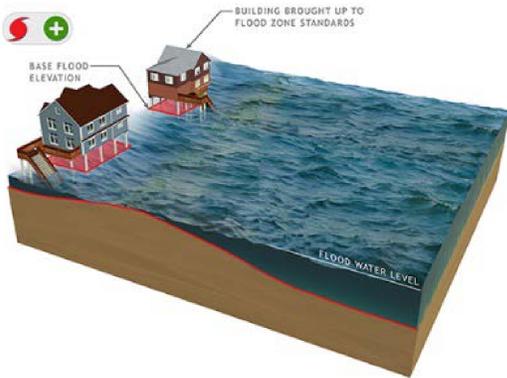
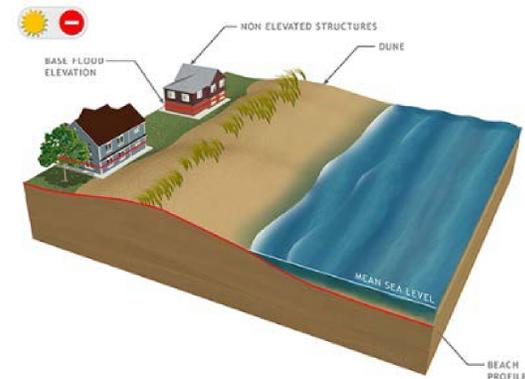
## NJBB Nonstructural Analyses

### Key to Figures:

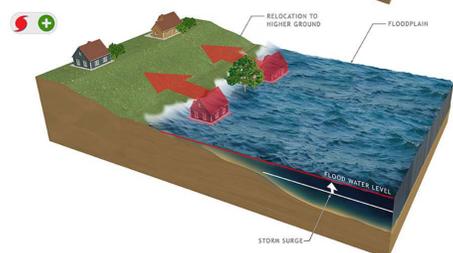
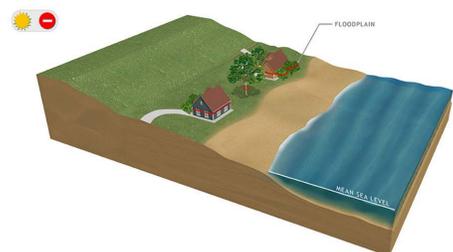
 Normal conditions, no measure

 Storm conditions, with measure

### Building Retrofit



### Acquisition and Relocation

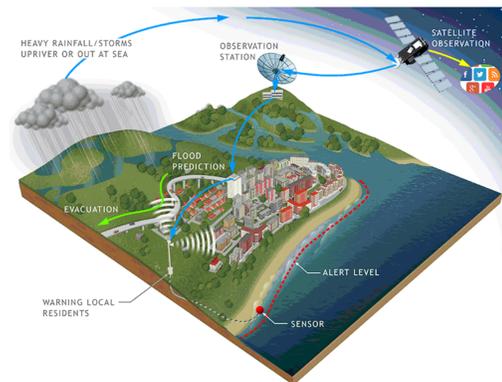


Nonstructural measures fall into four groups:

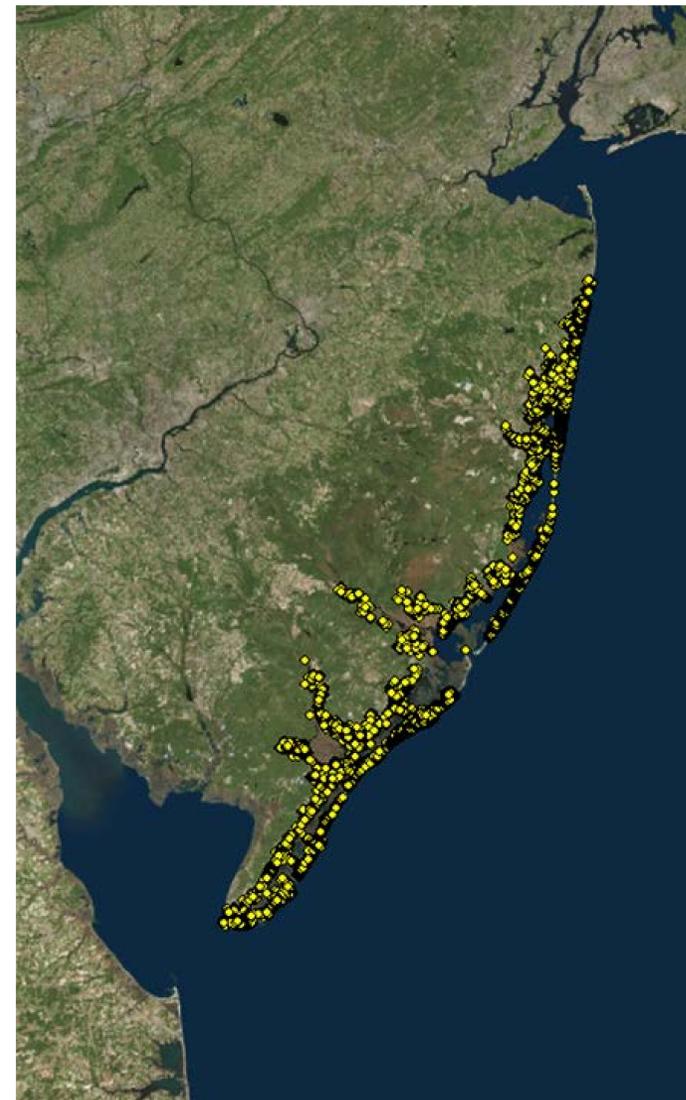
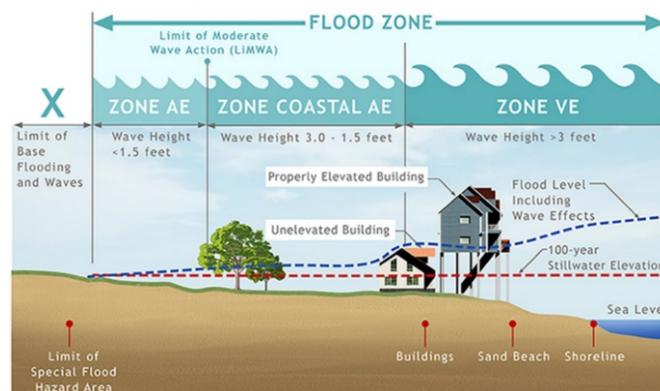
- (1) *Retrofit measures*
- (2) *Acquisition/ Removal or relocation of structures from the risk*
- (3) *Warning systems and evacuation procedures*
- (4) *Flood insurance and Land use Management/zoning*

Non-structural measures falling in the first two categories typically reduce the potential for storm damage to a structure; however, risks to the surrounding property, vehicles, and emergency access are not reduced and property owners should evacuate vulnerable properties during storm events.

### Enhanced Flood Warning and Evacuation Planning



### Land Use Management / Zoning and Flood Insurance



Overview of Structural Inventory in NJBB Study Area (N = 182,930)



Example of nonstructural analysis in Seaside Park. Homes with First Floor Elevation below:

Red = 5 year flood elevation,  
Orange = 10 year flood elevation, and  
Yellow = 20 year flood elevation

- Current analyses in the NJBB study are focused on building retrofit by elevating structures with first floor elevations that are within various flooding scenarios. Implementation of building elevation would involve elevating the first floor of structures to an elevation that meets or exceeds local building requirements.
- Future analyses will include consideration of full array of nonstructural measures

