

# Long Range Planning for Sea Level Rise

*Scituate, Marshfield and Duxbury  
Coastal Hazard Adaptation Workshop*



A District Local Technical Assistance (DLTA) funded project

# KEY PAD QUESTIONS

Let your voice be heard!

This exercise is optional and  
anonymous

# What is your favorite Fall activity?

1. Apple picking

23%

2. Attending children's sports games

3%

3. Gardening

19%

4. Cleaning the gutters

13%

5. Other

42%

# Which category below best describes you?

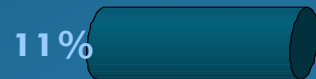
1. Resident



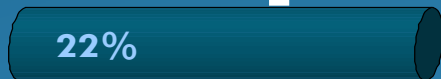
2. Local business owner



3. Resident and local business owner



4. Municipal or elected official



5. Other



# Where do you live?

1. Scituate

25%

2. Marshfield

50%

3. Duxbury

7%

4. Elsewhere

14%

5. Other

5%

# How long have you lived in Scituate, Marshfield, or Duxbury?



# What is your age?



Which of the following natural hazards do you think is the highest concern/threat to your neighborhood?

1. Fire

8%



2. Flooding

73%



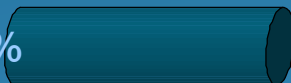
3. Earthquake

0%



4. Erosion

19%





If a home is in a mapped 100-yr storm area, what is your risk of experiencing this level of storm during a typical 30-year mortgage?

1. 1%

13%



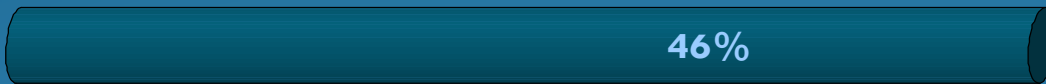
2. 10%

18%



3. 25%

46%



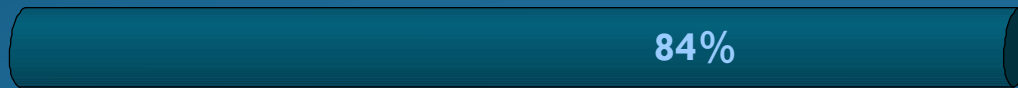
4. 50%

23%

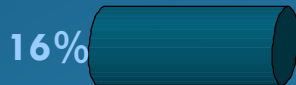


# Have you taken actions in the past to minimize the risk of damage to your home during storms?

1. Yes

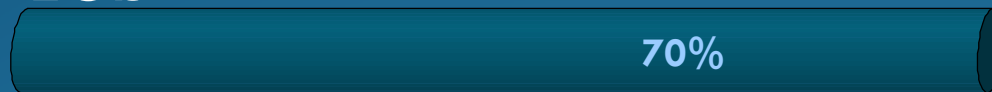


2. No

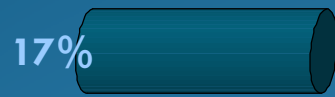


Over time, have you noticed changes such as movement in the high tide line or stronger ocean waves?

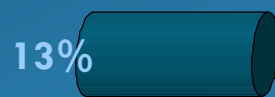
1. Yes



2. No

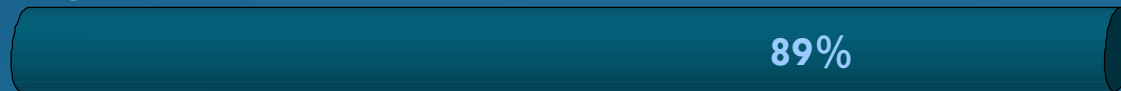


3. Not sure



Over time, have you observed changes such as changes in the beach profile or changes to the land in front of sea walls?

1. Yes



2. No



3. Not sure

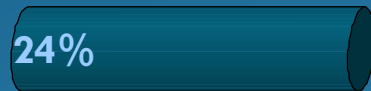


# Are you familiar with potential impacts of a changing climate along the coastlines?

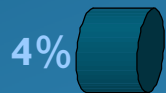
1. Very familiar



2. Somewhat familiar



3. Not familiar



# How significant do you think the potential impacts of Climate Change could be along the coastlines?

1. Very significant



2. Moderately significant



3. Somewhat significant








4. Not significant



5. Not sure



# If sea levels continue to rise, which of the following do think is the most appropriate response along the coastlines?

1. Build stronger seawalls and coastal structures to protect existing properties  
9% 
2. Accommodate new conditions by elevating roads and buildings  
5% 
3. Purchase open space and undeveloped land  
5% 
4. Move roads and buildings back from vulnerable areas  
9% 
5. A mixture of the responses above  
73% 

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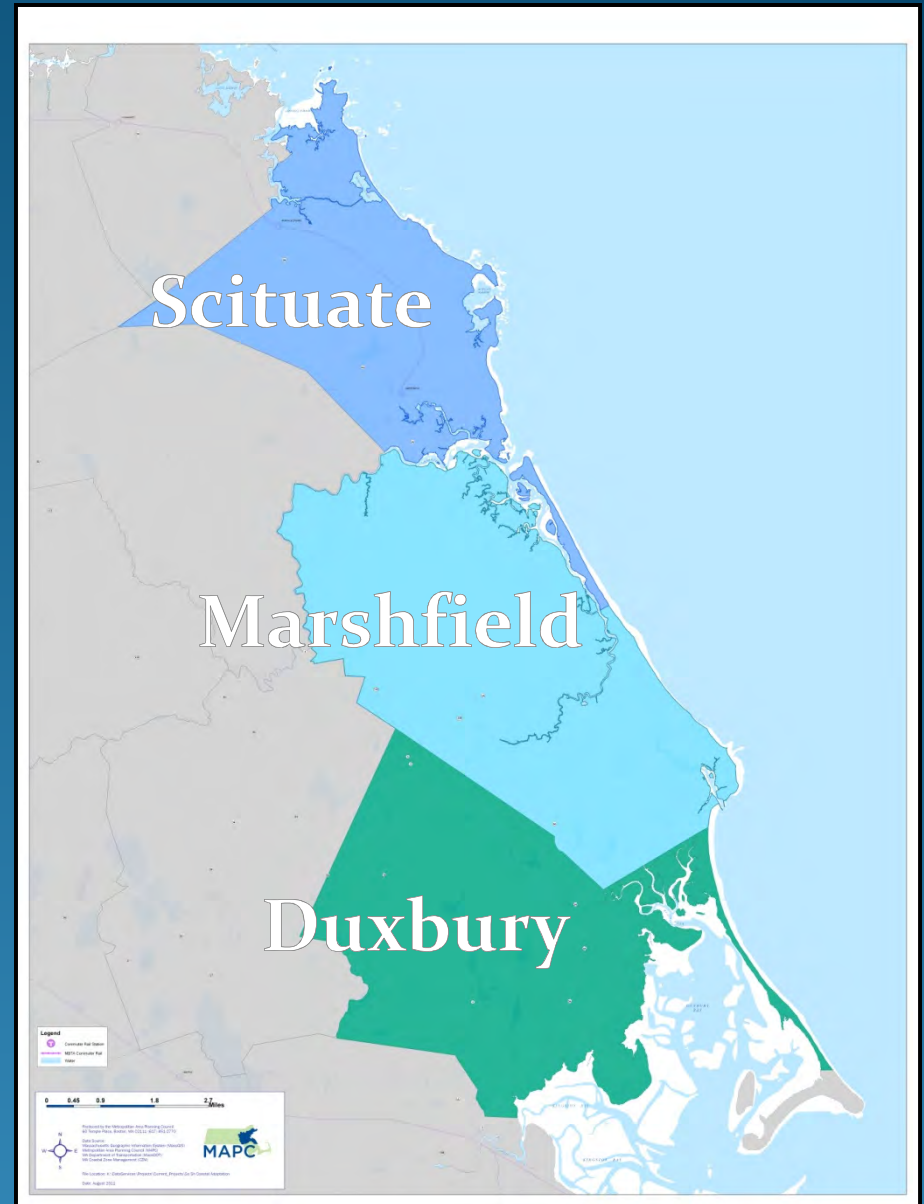
**As it continues to rise,  
what are the potential  
impacts to infrastructure  
and property? To our  
natural resources?  
How do we respond?**

**The Sea Level  
has been rising**

*Modified from: Adapting to Sea Level Rise  
Presentation, Slovinsky/Lockman*

# Background

- **Exploring current and potential future coastal vulnerabilities**
- **Identifying a range of possible adaptation options**
- **Inventorying resources that could support adaptation strategies**



# The Coastline now and in the future

## Existing conditions for Coastal Structures

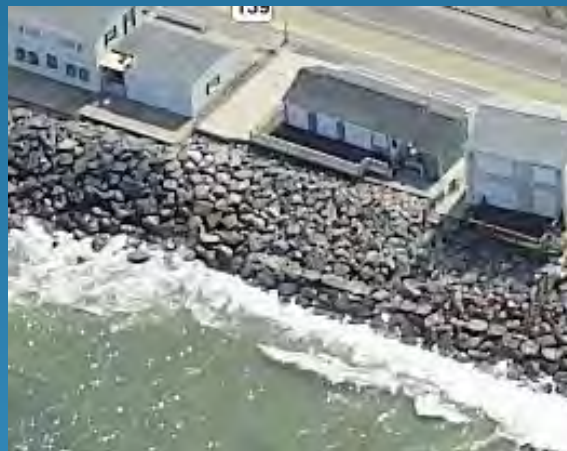
**Bulkhead /  
Seawalls**



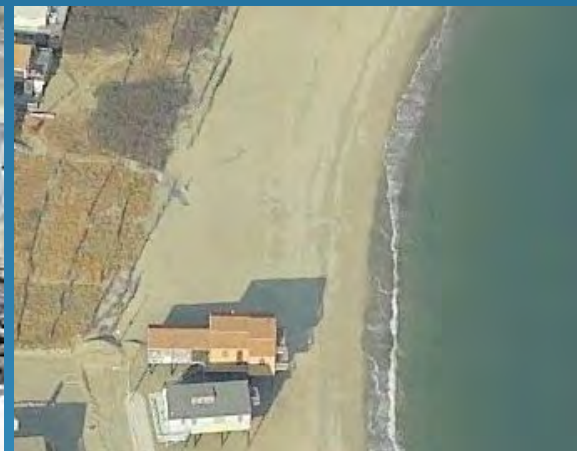
**Groins /  
Jettys**



**Revetments**



**Coastal  
Beach**





# The Coastline now and in the future

**Awareness of natural coastal features**

