Menu: potentially include links to the database, final report of the economics study, case study mapping application, and other resources.
1. Select a location on the map or search it in the bar.
>> drop down search bar with named littoral cells
2. Map zooms to location at littoral cell scale and highlights that cell area.

>> Two panels appear BASELINE INFORMATION and PLANNING LAYERS.
2. Map zooms to location at littoral cell scale and highlights that cell area. Two panels appear: BASELINE INFORMATION and PLANNING LAYERS.
3. The Baseline Information Panel presents info about the littoral cell area. The littoral cell is the planning area for scenario development.
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

>> Toggle on and off planning layers that inform scenario creation

PLANNING LAYERS

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
- Coastal Erosion
- Flooding
- Storms
- Current Weather

Littoral Cell = Planning Area
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar.

- Sediment Transport
- Shellfish Growing Area
- Wetlands
- Structures
- Critical Facilities

Vulnerability Ribbon
Sea Level Rise
Coastal Erosion
Flooding
Storms
Current Weather
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar. Toggle on and off planning layers that inform scenario creation.
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar. Toggle on and off planning layers that inform scenario creation.
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

- Toggle on and off planning layers that inform scenario creation from the drop-down bar.

PLANNING LAYERS

- General Planning Layers
  - Sediment Transport
  - Shellfish Growing Area
  - Wetlands
  - Structures
  - Critical Facilities

- Vulnerability Ribbon

- Sea Level Rise

- Coastal Erosion

- Flooding

- Storms

- Current Weather
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

Toggle on and off planning layers that inform scenario creation:

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
- Coastal Erosion
- Flooding
- Storms
- Current Weather

Planning layers from drop down bar:

- Sediment Transport
- Shellfish Growing Area
- Wetlands
- Structures
- Critical Facilities

Littoral Cell = Planning Area
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar. Toggle on and off planning layers that inform scenario creation.
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

- **Planning layers from drop down bar.**
  - Toggle on and off planning layers that inform scenario creation.

**PLANNING LAYERS**

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
  - Toggle map layers related to the potential effects of Sea Level Rise. See more information.
  - **Sea level Rise**
    - [ft - 1ft - 2ft - 3ft - 4ft - 5ft - 6ft] (slider)
  - Disconnected Roads
  - Critical Facilities
- Coastal Erosion
- Flooding
- Storms
- Current Weather

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**STRATEGY SELECTION**

- Littoral Cell = Planning Area
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

> Toggle on and off planning layers that inform scenario creation

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
  - Sea level Rise
    - 1ft–2ft–3ft–4ft–5ft–6ft (slider)
  - Disconnected Roads
  - Critical Facilities
- Coastal Erosion
- Flooding
- Storms
- Current Weather

Littoral Cell = Planning Area
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

> Toggle on and off planning layers that inform scenario creation.

4. Planning layers from drop down bar.

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
  - Sea level Rise
  - [1ft-2ft-3ft-4ft-5ft-6ft] (slider)
  - Disconnected Roads
  - Critical Facilities
- Coastal Erosion
- Flooding
- Storms
- Current Weather
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

Planning layers from drop down bar.

Toggle on and off planning layers that inform scenario creation.
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar. 
   >> Toggle on and off planning layers that inform scenario creation
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

- Toggle on and off planning layers that inform scenario creation

**Planning Layers**

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
- Coastal Erosion
- Flooding
  - Toggle map layers related to flooding around Cape Cod.
  - See more information
- FEMA FIRM Flood Zones
- Storms
- Current Weather
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

4. Planning layers from drop down bar.

>> Toggle on and off planning layers that inform scenario creation

- General Planning Layers
- Vulnerability Ribbon
- Sea Level Rise
- Coastal Erosion
- Flooding
- Storms

Toggle map layers related to storms around Cape Cod. See more information.

- SLOSH Hurricane Categories
- Historic Hurricane Tracks

- Current Weather
4. When the Planning Layer Panel is expanded, the Baseline Info Panel automatically collapses.

>> Toggle on and off planning layers that inform scenario creation

4. Planning layers from drop down bar.

>> Toggle on and off planning layers that inform scenario creation
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

5. Strategy Selection – expand the panel for strategy options.
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

5. Strategy Selection – expand the panel for strategy options
   >> Click the info icon to a strategy to learn more
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

5. Strategy Selection – expand the panel for strategy options
   >> Click the info icon to a strategy to learn more

STRATEGY SELECTION
Drag a strategy onto the highlighted portion of the map.

- Managed Relocation
- TDR
- Marsh Restoration
- Beach Nourishment
- Dune Creation
- Living Shoreline
- Revetment

ADAPTATION STRATEGIES FACT SHEET

STRATEGY:
Managed Relocation

Example of managed relocation at Brewster Breakwater Landing Beach after moving the parking lot back from the coastline. Gray outline shows location of parking lot prior to relocation.

DESCRIPTION: Gradually moving development and infrastructure away from the coastline and areas of projected loss due to flooding and sea level rise.

ADRESSES THE FOLLOWING CLIMATE CHANGE HAZARDS
- Erosion
- Storm Surge
- Sea Level Rise

CURRENTLY PERMITTABLE IN MA
Various local and state permits may be required.

BENEFITS PROVIDED

- Habitat
- Water Quality
- Carbon Storage
- Aesthetics
- Flood Mitigation
- Recreation/Tourism
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

5. Strategy Selection.
   >> Drag a strategy on to the map to create a scenario
4. When the Planning Layer Panel is expanded the Baseline Info Panel automatically collapses.

5. Strategy Selection.
   >> Drag a strategy on to the map to create a scenario
5. Strategy Selection.

>> Drag the strategy along the highlighted area to see its projected "zone of influence"
6. Outputs.
   >> Release click to place strategy

Littoral Cell = Planning Area
6. Outputs.
   >> Outputs generate on side panel

STRAATEGY: Beach Nourishment

DESCRIPTION: The process of adding sediment to an eroding beach to widen or elevate the beach to maintain or advance the shoreline seaward.

Climate Change Hazards

SCALE
- Site
- Neighborhood
- Community
- Regional

MAINT COST
- LOW
- MEDIUM
- HIGH

LIFESPAN
- LOW
- MEDIUM
- HIGH

ECOSYSTEM SERVICES SCORE

- Shoreline Change
- Habitat
- Open Space
- Water Quality

LOCAL  37  69
TOWN  REGIONAL

PROPERTY VALUES
- $300K
- 2 facilities
- 2 miles
6. Outputs.

>> New strategy selection in same location will generate new outputs

>> Different outputs generate on side panel

Scenario 1

Scenario 2
7. Compare Outputs from more than one scenario.

>> Compare outputs with multiple tabs