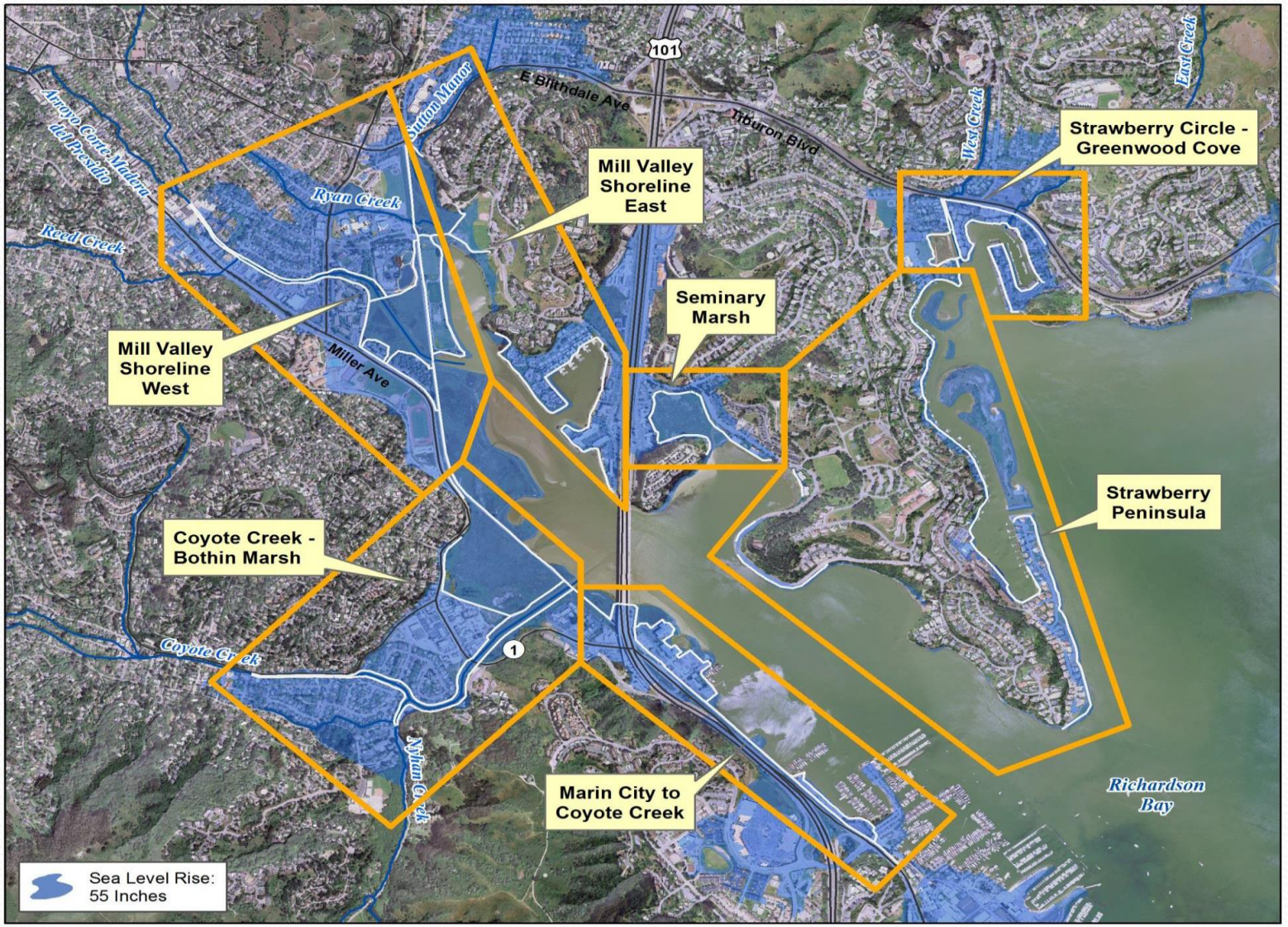
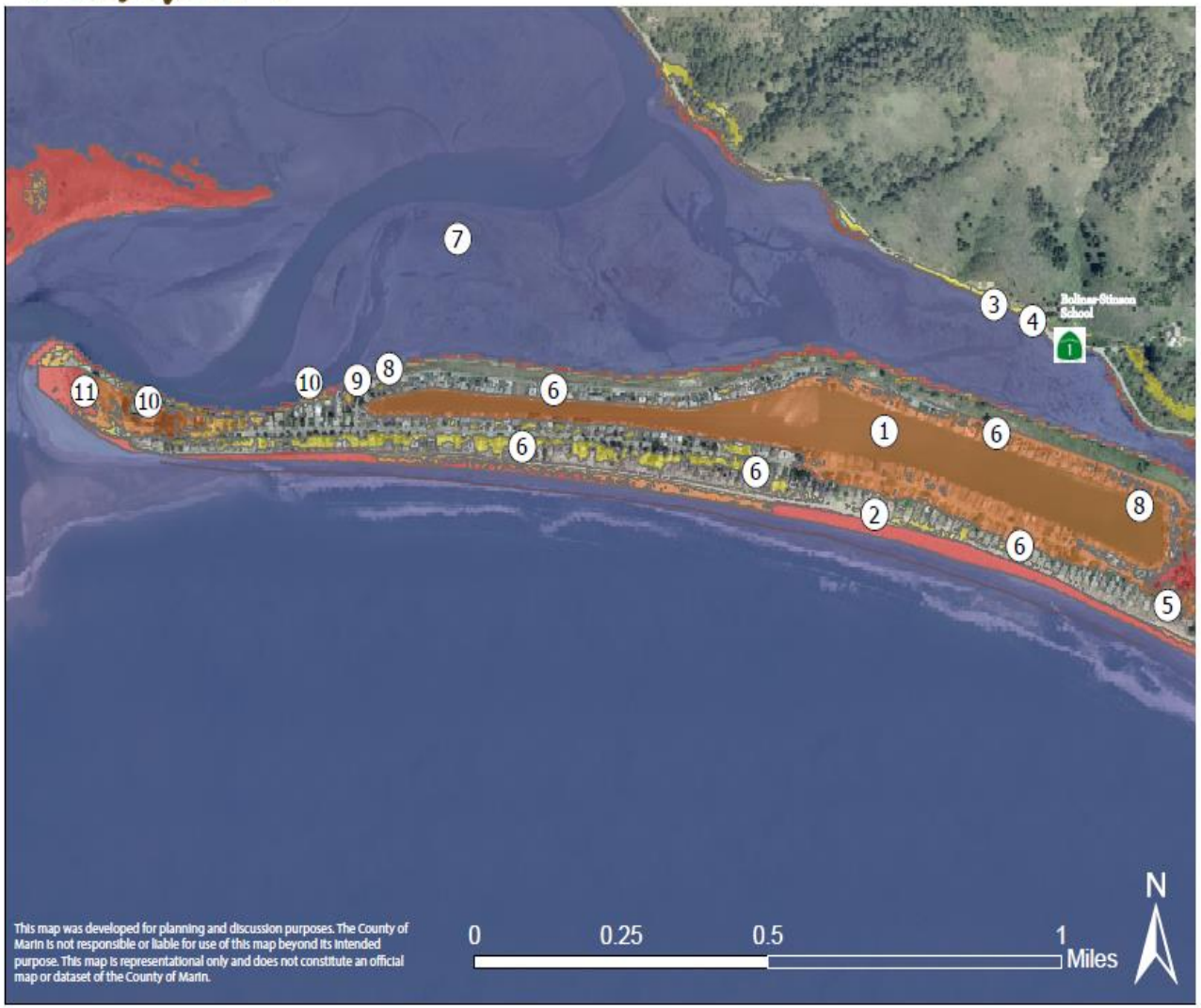
Southern Marin – Mill Valley to Sausalito



Seadrift



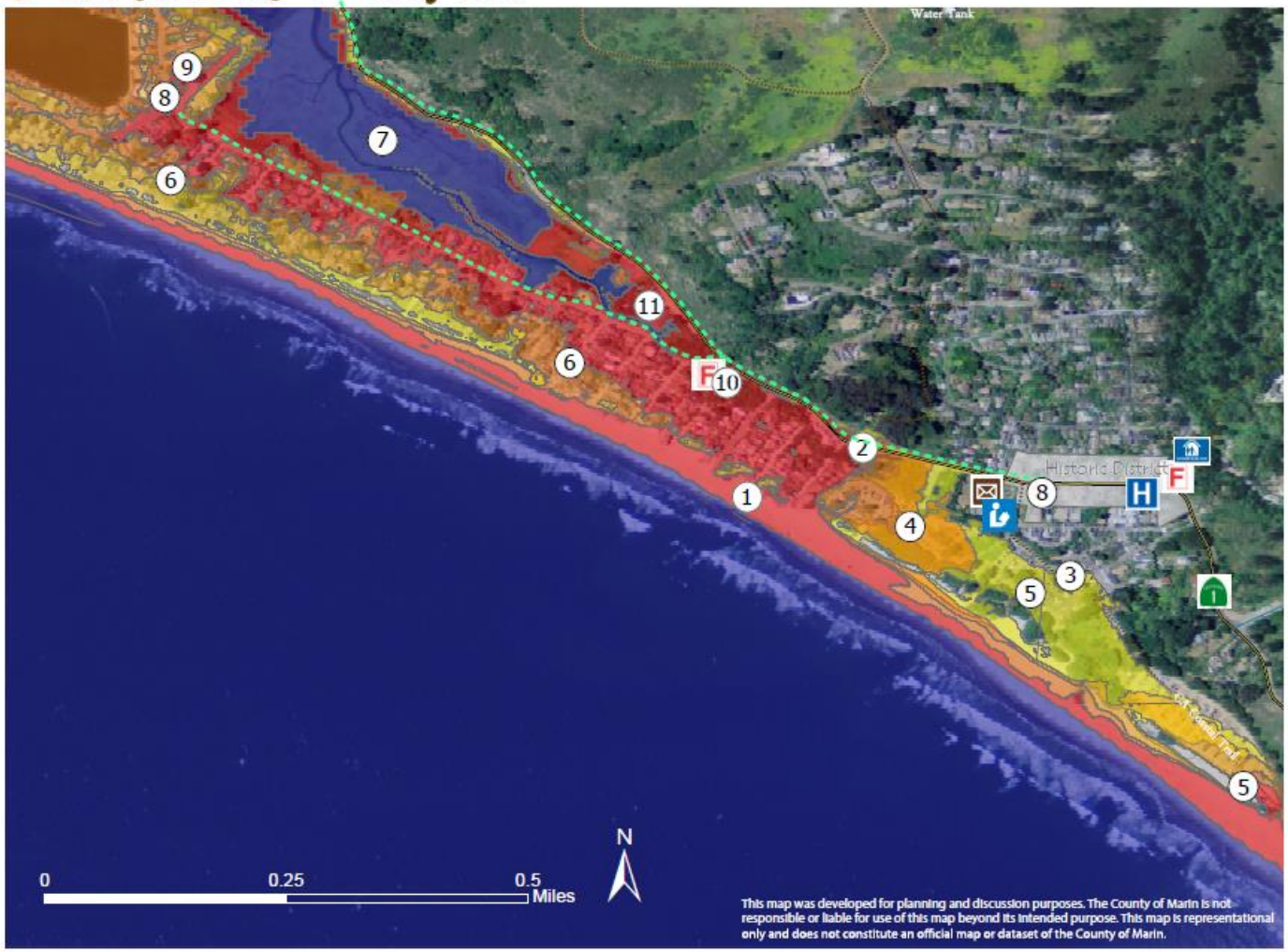
Exposed Assets

1. Seadrift Lagoon
2. Seadrift Beach
3. California Coastal Trail
4. State Highway 1
5. Walla Vista Walkway
6. Residential Development (serviced by individual, on-site wastewater systems)
7. Bolinas Lagoon
8. Inlet/Outlet Valves to Seadrift Lagoon
9. Boat Launch
10. Bulkhead (10-20')
11. Sensitive Nesting Habitat Preserve (Dunes)

Sea Level Rise (SLR) Scenarios

- Baseline No SLR/ No Storm
- 25 cm (0'10'')SLR w/ Annual Storm
- 25 cm (0'10'') SLR w/ 20 year Storm
- 50 cm (1'8'') SLR w/ 20 year Storm
- 100 cm (3'3'') SLR w/ 100 year Storm
- 200 cm (6'6'') SLR w/ 100 year Storm

Stinson Beach



Exposed Assets

1. Stinson Beach
2. State Highway 1
3. California Coastal Trail
4. Picnic Area
5. Stinson Beach Parking Lots
6. Commercial/Residential Development
7. Bolinas Lagoon
8. Tsunami Evacuation Route
9. Emergency Generator
10. Fire Station
11. Water District Office

Additional Natural Resources include Steelhead Trout habitat, Harbor Seal Haul Outs, Brown Pelican Roosting Sites, Wetlands

Sea Level Rise (SLR) Scenarios

- Baseline No SLR/ No Storm
- 25 cm (0'10'')SLR w/ Annual Storm
- 25 cm (0'10'') SLR w/ 20 year Storm
- 50 cm (1'8'') SLR w/ 20 year Storm
- 100 cm (3'3'') SLR w/ 100 year Storm
- 200 cm (6'6'') SLR w/ 100 year Storm

Properties Exposed

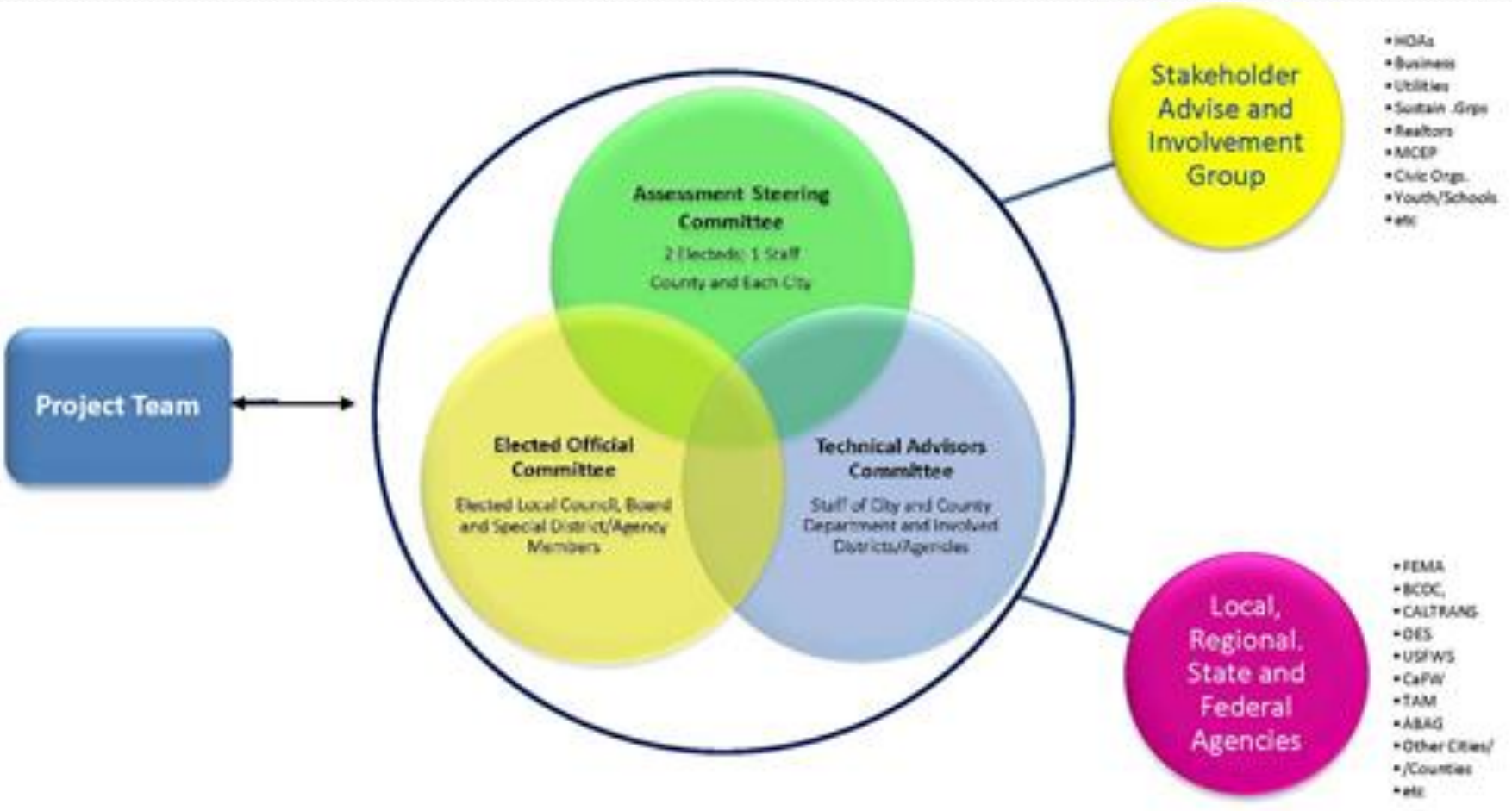
2	398
120	490
250	

December 3, 2014 - Mill Valley

December 3, 2014 - Mill Valley

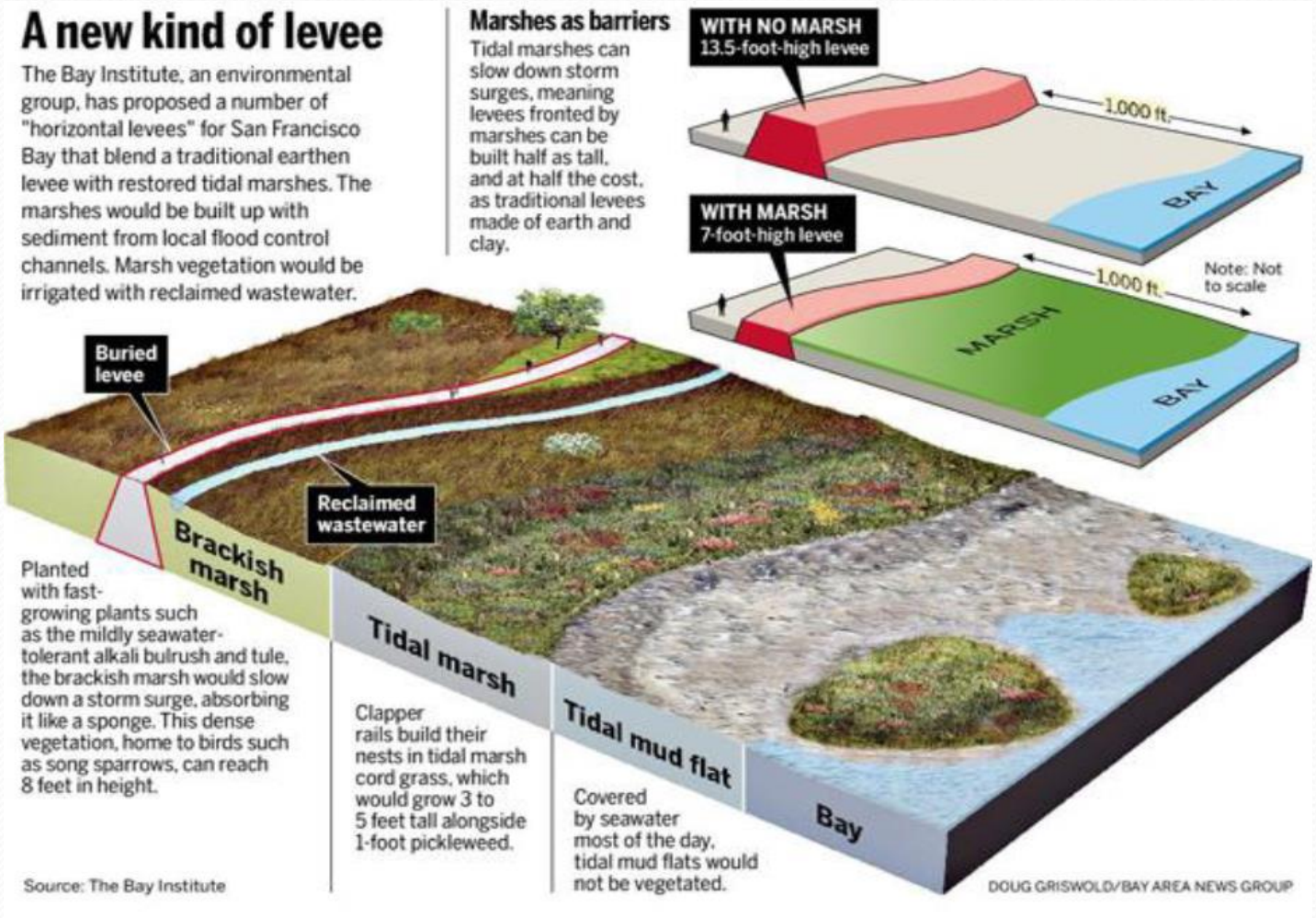
Very Preliminary Draft Governance Framework – Marin SLR Study

Local Collaboration AND Local Control

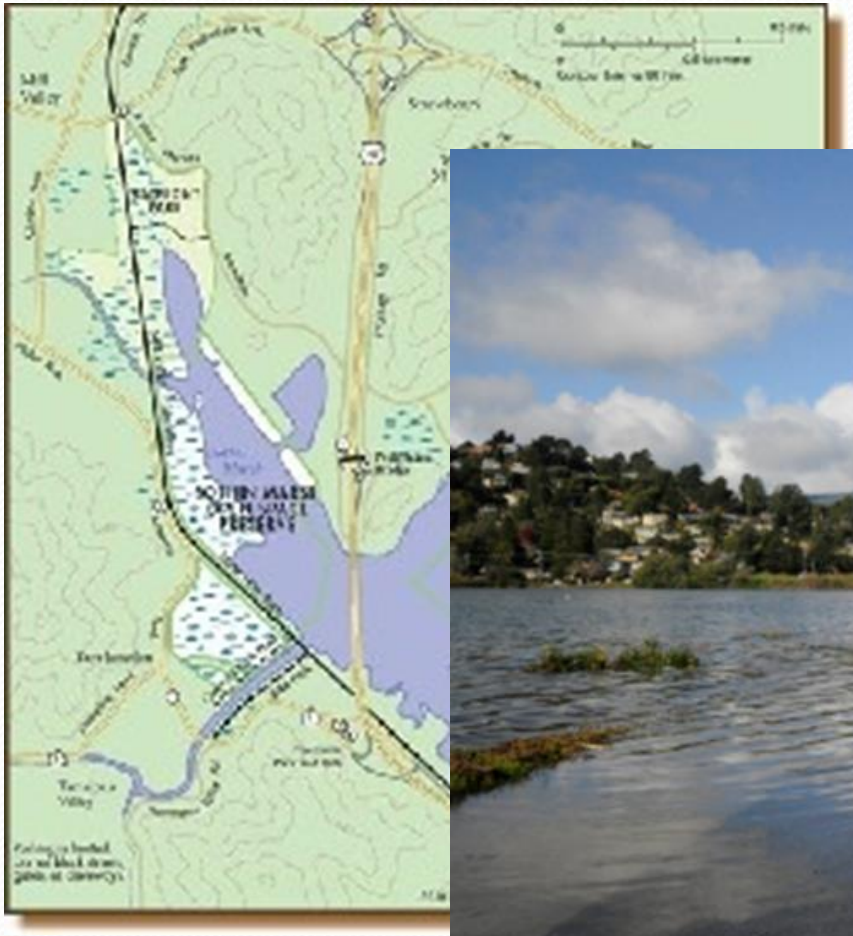


Draft Marin Countywide Vulnerability Assessment Organizational Framework

Horizontal ("Natural") Levee



Bothin Marsh Natural Levee Prototype Site



Tam High SLR Adaptation Game

START

THE GAME OF FLOODS

Marin Island

Sea levels are rising world-wide as warming oceans expand and melt glaciers and ice sheets. Stronger storms coupled with rising seas can significantly damage— even destroy— property, infrastructure, public facilities, natural habitats, and other resources we need to live sustainably here. Marin Island is no exception. Join your community in the challenge to collaboratively develop a Sea Level Rise Adaptation Plan using adaptation strategies (game pieces) for the short and medium term scenarios presented in the SCENARIO CARDS.

Instructions:

1. To begin each 25 minute round, the facilitator reads the relevant scenario card aloud.
2. Each player selects a game piece and places it on the board at the location of their affiliated strategies under. Use the worksheet provided to indicate your choice.
3. Role the d to determine who goes first. The highest roll goes first. If a tie occurs, the tied players must re-roll. Players take turns clockwise around the table.
4. In turn, each commissioner states their asset and preparation strategy(ies), placing their game pieces in the desired location on Main Island. No need to duplicate pieces at the same location. Conflicting strategies are allowed.
5. Continue talking turns until each player has laid down all of their pieces for the round, or until time runs out. Repeat for the remaining scenario.
6. Use the remaining time to finalize the group's proposal by identifying and resolving conflicts. Stick the final strategies to the board. Consider the following factors to inform the group proposal: (1) Costs/funding, (2) Private property impacts, (3) Environmental impacts, (4) Equity/social justice concerns.
7. Select a spokesperson who will report to the group and mock jury.

PREPARATIONS

LEGEND

Marina
Gas Station
Mammal Habitat
Seabird Colony
Aquaculture
Ranch
Agriculture
Evacuation Route
Grocery
Public Well
Home
Water
Roadway
Beach
School Site
Parking
Boat Launch
Restaurant
Library
Emergency Shelter
Hospital
Fire Station
Post Office

COUNTY OF MARIN
C-SMART Program
May 2015

www.MarinSLR.org

Photo Credit: Dianne Arrigoni

Community Development Agency
3501 Civic Center Drive, Suite 308
San Rafael, CA 94903
415 473 6269 T / 415 473 7880 F
marinslr.org

May 29, 2015