

## AGENDA

Expenditure Plan Advisory Committee  
Wednesday, September 6, 2017  
6:00 p.m.

Conference Room  
900 Fifth Avenue, Suite 100  
San Rafael, CA 94901



Phone: 415/226-0815  
Fax: 415/226-0816

[www.tam.ca.gov](http://www.tam.ca.gov)

**Belvedere**  
James Campbell

**Corte Madera**  
Diane Furst

**Fairfax**  
John Reed

**Larkspur**  
Dan Hillmer

**Mill Valley**  
Stephanie Moulton-Peters

**Novato**  
Eric Lucan

**Ross**  
P. Beach Kuhl

**San Anselmo**  
Tom McInerney

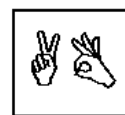
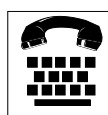
**San Rafael**  
Gary Phillips

**Sausalito**  
Ray Withy

**Tiburon**  
Alice Fredericks

**County of Marin**  
Damon Connolly  
Katie Rice  
Kathrin Sears  
Dennis Rodoni  
Judy Arnold

1. Welcome and Introductions (10 minutes)
2. Previous Meeting Recap, Acceptance of the Minutes, Overview of Materials Requested, Response to Outstanding Questions (10 minutes)
3. Senate Bill 1 and Regional Measure 3 Update on Activity, Dianne Steinhauser (5 minutes)
4. Overview of Golden Gate Bridge, Highway and Transportation District Transit Services – Denis Mulligan, General Manager (15 minutes)
5. Marin County Resiliency Programs – Bay Wave and C-Smart – Chris Choo (25 minutes)
6. Breakout Groups – Discussion of the existing Measure A Expenditure Plan and potential changes or additions for a future Expenditure Plan (60 minutes)
7. Request for Additional Material / Upcoming EPAC Activity (5 Minutes)
8. Public Open Time
9. Adjourn



The meeting facilities are accessible to persons with disabilities. Requests for special accommodations (assisted listening device, sign language interpreters, etc.) should be directed to Denise Merleno at 415-226-0820 or email: [dmerleno@tam.ca.gov](mailto:dmerleno@tam.ca.gov),  
**no later than 5 days** before the meeting date.

## **Expenditure Plan Advisory Committee Meeting Membership List**

<b>Ref #</b>	<b>Organization</b>	<b>Select Individual</b>
1	COC-Northern Planning	V-Anne Chernock
2	COC-Central Planning	Joy Dahlgren
3	COC-Ross Valley Planning	Paul Roye
4	COC-Southern Planning	Robert Burton
5	COC-West Marin Planning Area	Scott Tye
6	COC-Major Marin Employers	Peter Pelham
7	COC-Environmental Organizations - MCL	Kate Powers
8	COC-Bicycle and Pedestrian Group	Vince O'Brien
9	COC-Marin County Paratransit Coordinating Council	Allan Bortel
10	COC-League of Women Voters	Kevin Hagerty
11	COC-Taxpayer Group	Paul Premo
12	North Bay Leadership Council	Cynthia Murray
13	Chamber of Commerce Novato	Coy Smith
14	Chamber of Commerce San Rafael	Joanne Webster
15	Marin County Office of Education	Ken Lippi
16	Student- College of Marin	Jon Horinek
17	Transit Rider	Lisel Blash
18	Marin Mobility Consortium - Seniors	Lynn Von der Werth
19	Senior Living Resident/Pedestrian	Sue Beittel
20	Equity/Marin City	Monique Brown
21	Equity/Canal Neighborhood	Roberto Hernandez
22	Labor Union/Building Trade Council	Javier Flores
23	Bay Wave Rep - Sea Level Rise - Innovation/Resilience	Bill Carney
24	Safe Routes to School Representative	Debbie Alley





## *History of The Living Landmark*

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- ☐ District formed in 1925 to finance/construct Golden Gate Bridge
- ☐ Six counties voted to put up their homes, farms and vineyards as security for bonds needed to finance construction
- ☐ No federal or state funds were used to construct the bridge
- ☐ District Mission: Provide safe, efficient and reliable movement of people, goods and services through the Golden Gate Corridor



# Building the Bridge

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- ☐ Started Construction  
January 5, 1933
- ☐ Opened to public for  
Pedestrian Day on  
May 27, 1937
- ☐ President Roosevelt  
announced the opening of  
the Bridge to vehicle traffic  
on May 28, 1937
- ☐ Cost \$35 million to build





# ***Bridge District Operates Three Distinct Transportation Businesses***

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**Bridge**



**Bus**



**Ferry**



☐ District employs approximately 820  
personnel









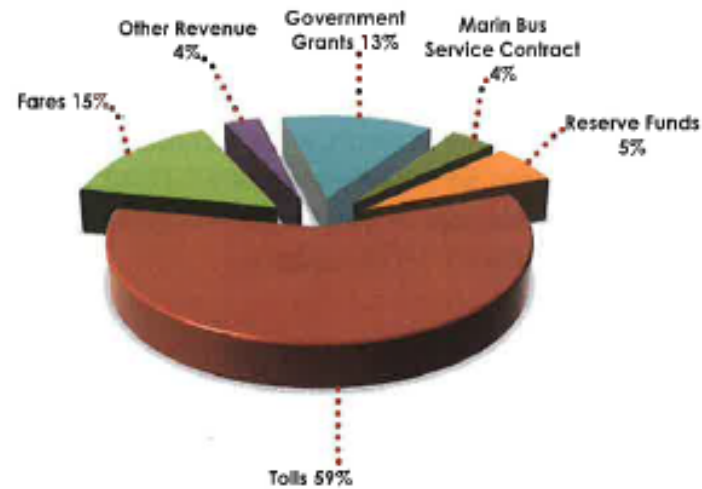




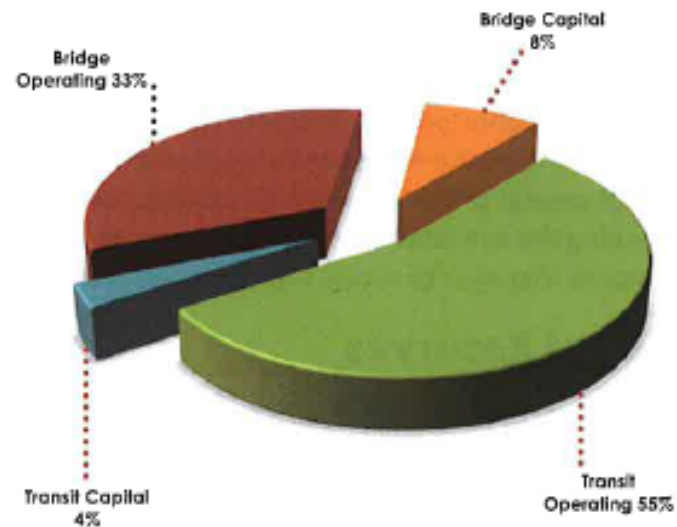


# Revenue Sources and Expense Allocation FY 17/18 Proposed Operating and Capital Budget (In Millions)

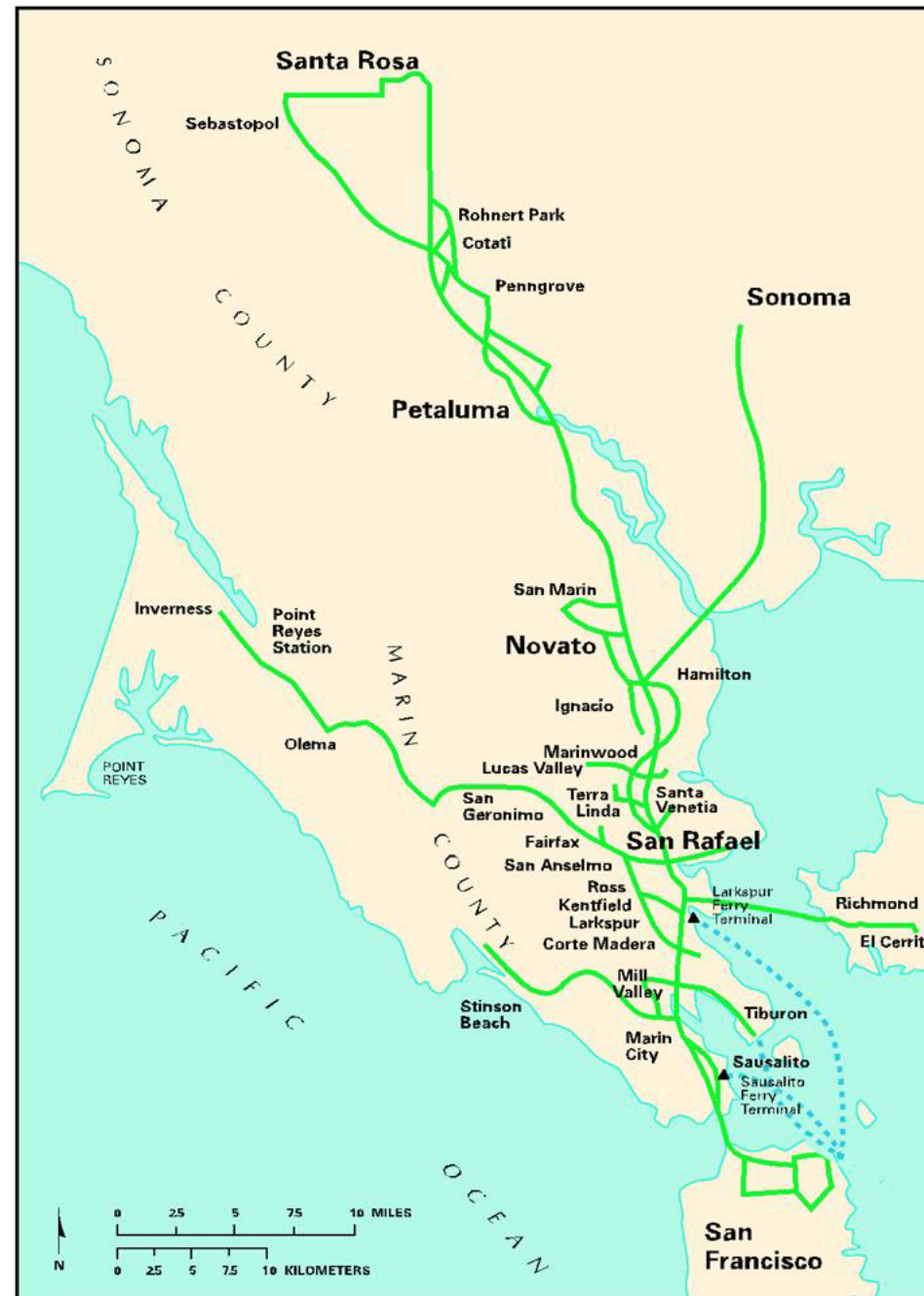
Source of Revenues	
Tolls	\$146.6
Fares	37.5
Other Revenue	7.7
Government Grants	32.8
Marin Bus Service Contract	9.8
Reserve Funds	15.5
<b>Total</b>	<b>\$249.9</b>



Type of Expense	
Transit Operating	\$136.9
Transit Capital*	7.3
Bridge Operating	82.6
Bridge Capital*	23.1
<b>Total</b>	<b>\$249.9</b>



**Bus and Ferry transit services  
remove approximately 25% of  
peak-hour commute traffic  
from Golden Gate Bridge.**



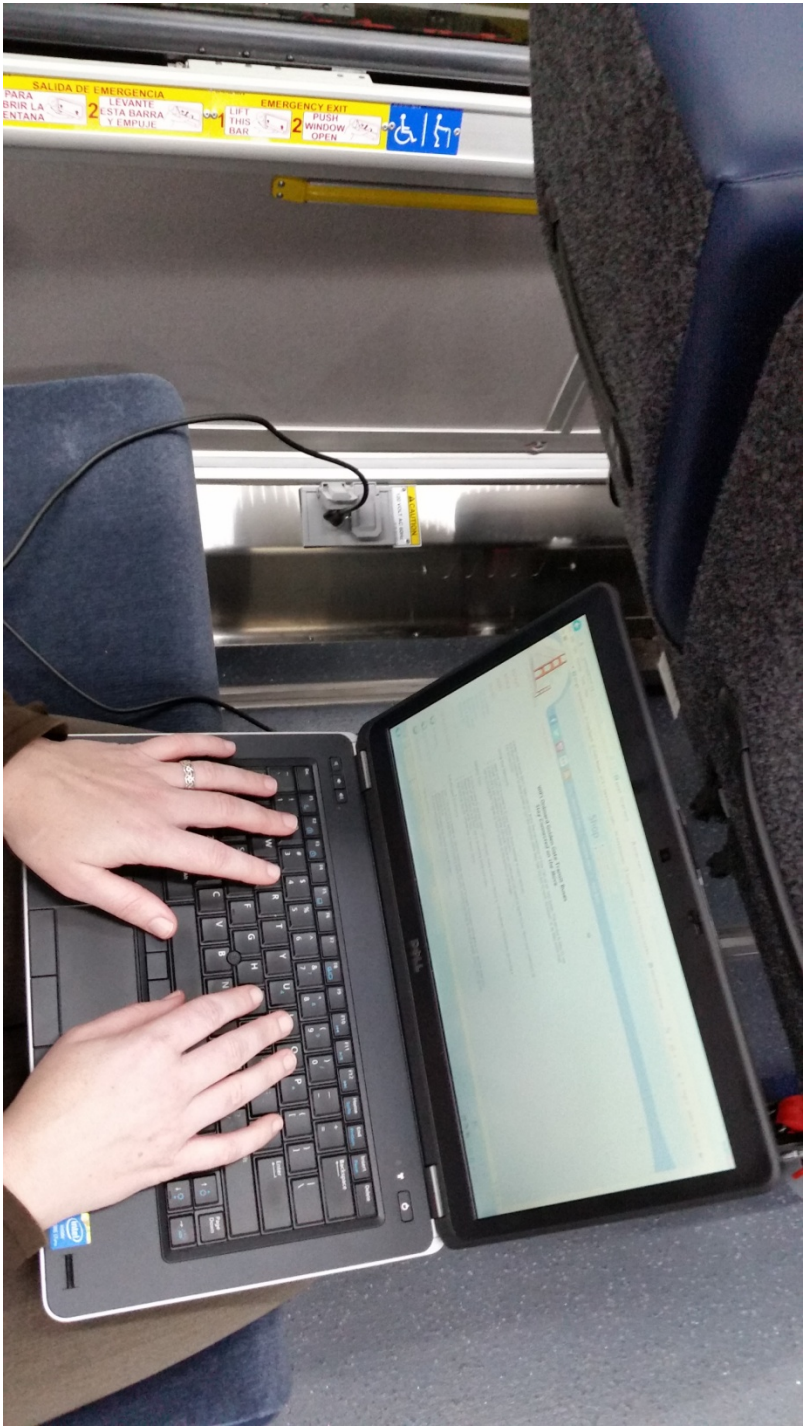














## *Ferry Division*

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- Operates daily between Marin County and San Francisco
- System includes five landings
- Began operating high speed ferries in 1999
- Provide ferry service directly to SF Giants baseball games.



# Golden Gate Ferry Provides Public Transportation Service Between Larkspur/Tiburon/Sausalito and San Francisco







*Ride the Ferry to  
the Ballpark*































drive on through  
to the other side

**All-Electronic Tolling** on the Golden Gate.  
No stopping. Ever. Trippy.











# Ticket Vending Machines





# PARKING FEE

\$2.00/DAILY  
MONDAY - FRIDAY  
5:00 a.m. - 3:00p.m.

License plate number or  
stall number required.

Vehicles parked in the lot anytime between 5:00a.m.  
and 3:00p.m. are subject to daily parking fee.

No vehicle may park in the lot  
continuously for more than 24 hours.

Violators are subject to fine and/or towing.



YOUR PARKING ZONE#:

111

Register online or via mobile app:

[www.parkmobile.com](http://www.parkmobile.com)

To pay for parking:

Use our Mobile App

or Call 1-877-727-5718



Parkmobile  
PARKING MADE SIMPLE



ParkScan.Go















JAN 11 2015















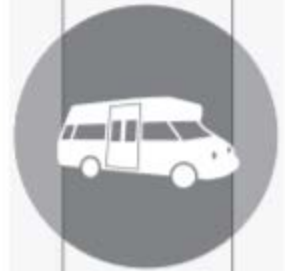












# **Marin County Transportation Sales Tax Expenditure Plan**



Approved Final Plan  
May 6, 2004



- San Rafael, connecting local employment centers with downtown and the transit center
- Ross Valley, connecting the local communities in the valley
- Maintain and expand the West Marin Stagecoach
- Restore night service as demand requires
- Restore ferry connector shuttles to communities with high demand
- Flexible services for hillier or less populated areas with transit demand

**Provide enhanced school bus service using creative school transportation solutions**

- Expand traditional yellow school buses for younger children
- Develop multi-purpose shuttles that serve schools as well as other needs
- Improve public transit service to schools, and after school programs

**Improved Frequency in High Volume Corridors**

This program will provide funding to maintain and improve intercommunity bus transit service and service along major bus transit corridors. Marin County has a number of bus transit corridors that are busy enough to justify frequent service. These include all day services in the Canal – downtown San Rafael – Marin City corridor, services between San Rafael and San Anselmo, and services to local colleges, as well as peak period services to major employers in Novato, San Rafael, and other locations. These services require larger buses to address capacity constraints and are designed to operate at high frequency to meet existing and latent demand.

Bus services between Marin County and San Francisco on the Highway 101 corridor provide both local and regional mobility to Marin County residents and employees. These services may also be funded under this category, provided that the Golden Gate Bridge, Highway and Transportation District maintains the toll revenue that currently funds these regional services. The intent of this "maintenance of effort" provision is to ensure that the value of toll subsidies to regional routes is preserved and that sales tax funds are not used to replace toll revenues allocated to support the regional network. The specific language defining maintenance of effort will be included in the Short Range Transit Plan approved by the Marin County Transit District and the Transportation Authority of Marin. The maintenance of effort provision will be included in any funding agreement for these

**Page 10**

Marin County Transit District will contract for local services in order to procure the highest quality and lowest cost transit system for Marin County residents. Decisions about priorities for transit system investments will be made locally by the Transit District and the Transportation Authority of Marin.

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***TAM provides \$85,000 per year to the Bridge District to help offset a portion of the shuttle cost.***

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***While regional bus service is eligible for Measure A funding, the Bridge District has not received any Measure A money for regional bus service.***















# **Sea Level Rise planning in Marin County**

## **Transportation Agency of Marin, Expenditure Plan Advisory Committee**

### **September 5, 2017**

Chris Choo, principal planner, Marin County Public Works, 473-7586, [cchoo@marincounty.org](mailto:cchoo@marincounty.org)



## Task review



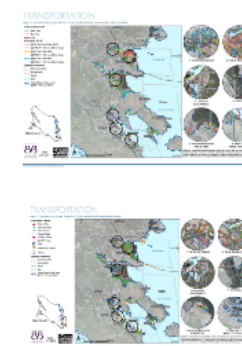
## Vulnerability Assessment



## Moving forward...



## Findings for transportation



### Major Roadways

Shoreline Highway from Manzanita to Tam Junction  
Highways 101, 580, and 37  
Miller Ave and Camino Alto in Mill Valley  
Tiburon Blvd in Tiburon  
San Rafael Drive in Belvedere  
San Clemente, Paradise, and Lucky Drives in Corte Madera  
Redwood Highway and Sir Francis Drake in Larkspur  
Roadways in downtown San Rafael and the Canal  
Rowland and Bel Marin Keys Blvd. in Novato  
Donahue St. in Marin City

### Other transit impacts

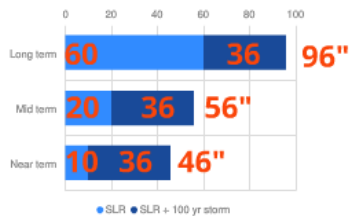
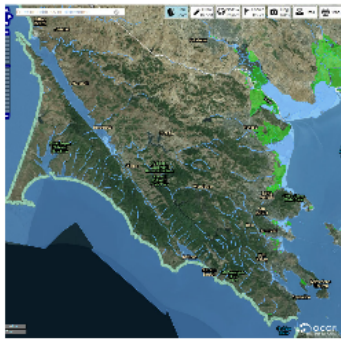
Bus, ferry, marinas, and bike paths



# Task review

1

model and  
scenarios



2

collaboration



3

vulnerability  
assessment





# Vulnerability Assessment

Countywide impacts



Buildings, businesses, tax revenue



Utilities: facilities and infrastructure



Transportation



Cultural resources

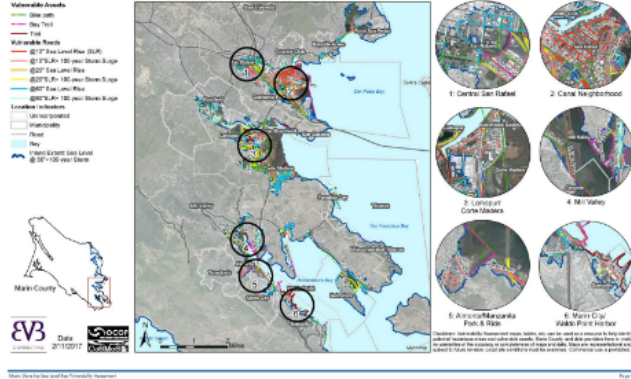


Recreation and natural areas

# Findings for transportation

## TRANSPORTATION

Map 21: Southern Study Area Roadways, Trails, and Blue Paths (Subarea to Sea Level Rise)



## Major Roadways

Shoreline Highway from Manzanita to Tam Junction

Highways 101, 580, and 37

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San Clemente, Paradise, and Lucky Drives in Corte Madera

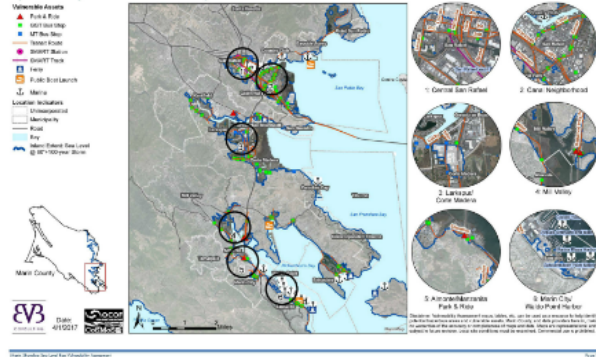
Redwood Highway and Sir Francis Drake in Larkspur

Roadways in downtown San Rafael and the Canal

Rowland and Bel Marin Keys Blvd. in Novato  
Donahue St. in Marin City

## TRANSPORTATION

Map 22: Southern Study Area to Assess Transit and Marine Transportation Issues



## Other transit impacts

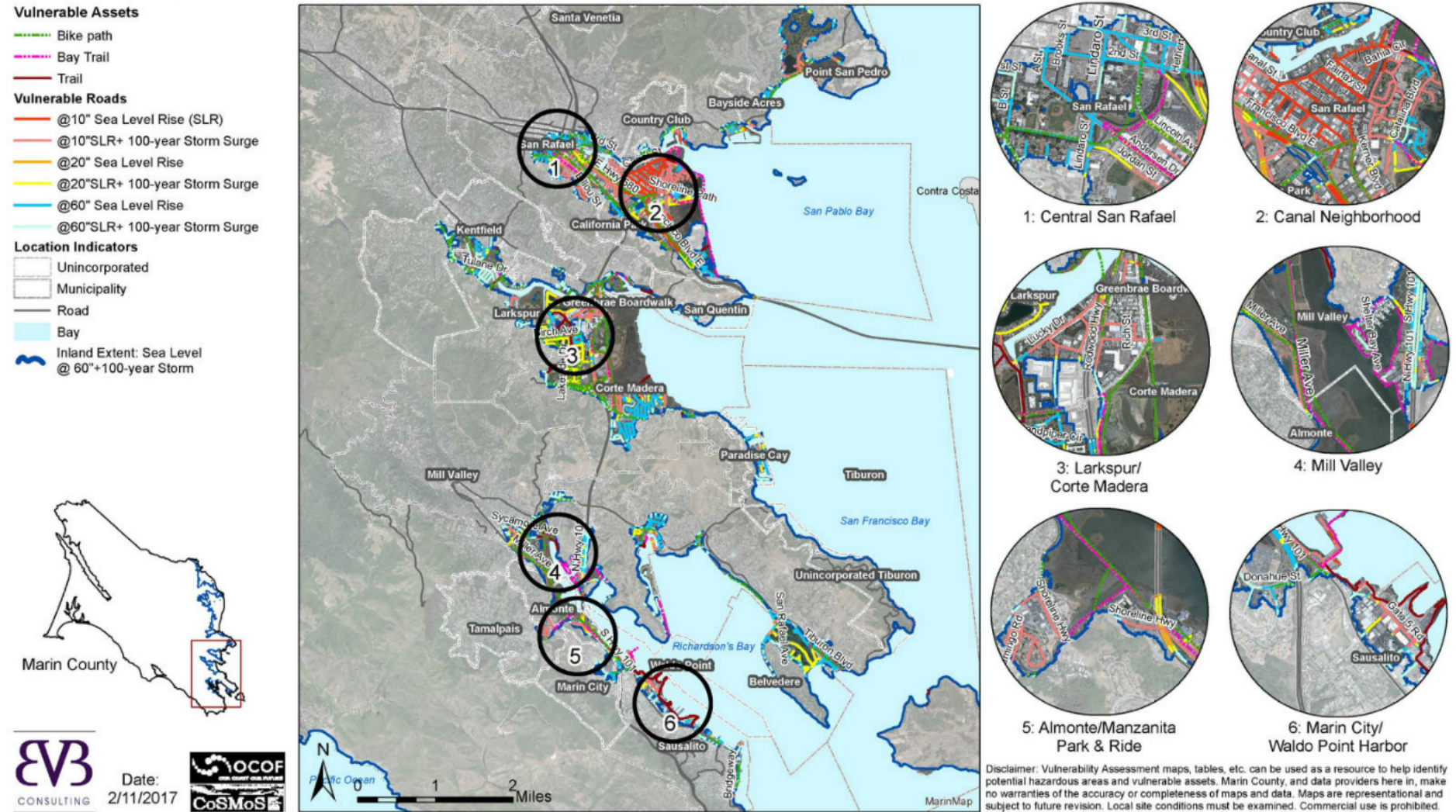
Bus, ferry, marinas, and bike paths





# TRANSPORTATION

Map 21. Southern Study Area Roads, Trails, and Bike Paths Vulnerable to Sea Level Rise





# TRANSPORTATION

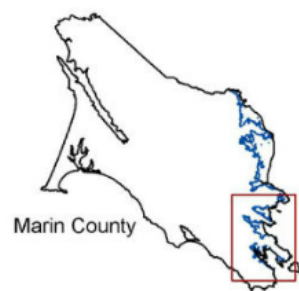
Map 23. Southern Study Area Vulnerable Transit and Marine Transportation Assets

## Vulnerable Assets

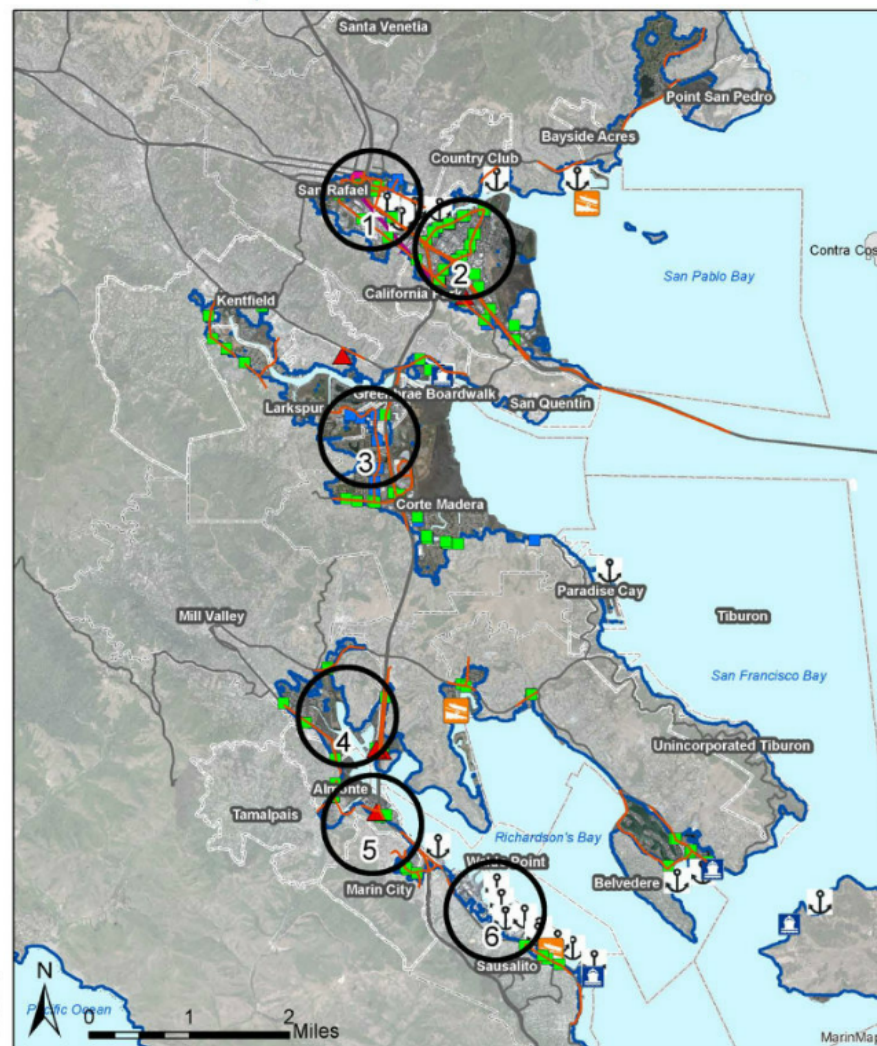
- ▲ Park & Ride
- GGT Bus Stop
- MT Bus Stop
- Transit Route
- SMART Station
- SMART Track
- ⚓ Ferry
- ⚓ Public Boat Launch
- ⚓ Marina

## Location Indicators

- Unincorporated
- Municipality
- Road
- Bay
- Inland Extent: Sea Level @ 60"+100-year Storm



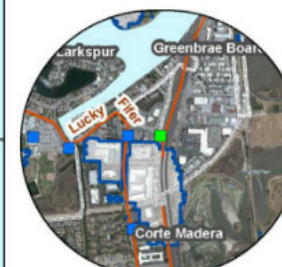
Date:  
4/1/2017



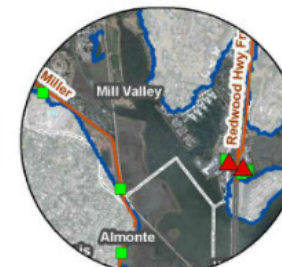
1: Central San Rafael



2: Canal Neighborhood



3: Larkspur/  
Corte Madera



4: Mill Valley



5: Almonte/Manzanita  
Park & Ride



6: Marin City/  
Waldo Point Harbor

Disclaimer: Vulnerability Assessment maps, tables, etc. can be used as a resource to help identify potential hazardous areas and vulnerable assets. Marin County, and data providers here in, make no warranties of the accuracy or completeness of maps and data. Maps are representational and subject to future revision. Local site conditions must be examined. Commercial use is prohibited.



# Moving forward...

Identify priorities

How can we  
support planning  
and adaptation?

Find willing  
partners

Fund  
projects

Develop criteria

Support the Marin  
Resilient by Design  
project?

SF Bay Restoration  
Fund (Measure AA)

Develop guidance  
for land use and  
capital project  
policies

## Task review



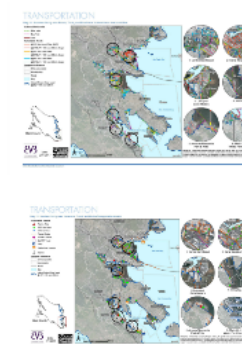
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# Collaboration: Sea-level Marin Adaptation Response Team (C-SMART)



Caden at the Beach September 2013. Credit: Rendel



Community Development  
Agency  
3501 Civic Center Drive, Rm. 308  
San Rafael, CA 94903  
415 4736269 T  
[www.marinslr.org](http://www.marinslr.org)

**TAM EPAC**

**9/6/17**



# Public Workshops!

## 1. KICKOFF

JULY 2014  
POINT REYES NATIONAL SEASHORE

## 2. VULNERABILITY ASSESSMENT

OCTOBER 2014  
INVERNESS, STINSON BEACH AND  
TOMALES

## 3. GAME OF FLOODS

MAY AND JUNE 2015,  
POINT REYES STN. AND STINSON BEACH

## 4. ADAPTATION POLLING

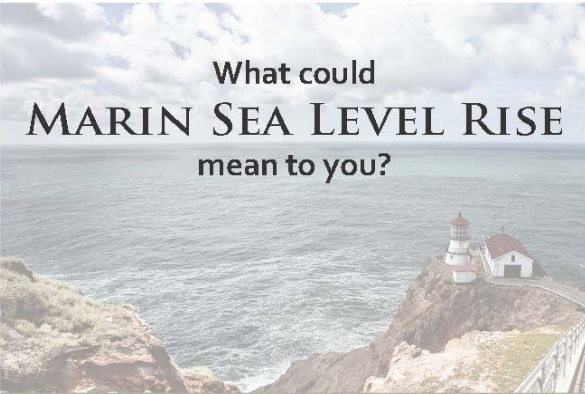
NOVEMBER 2015, STINSON BEACH

## 5. NEXT STEPS

JUNE 2017  
POINT REYES STN. AND STINSON BEACH



Community Development Agency  
Collaboration: Sea-level Marin Adaptation Response Team  
August 2017 | [www.marinslr.org](http://www.marinslr.org)



What could  
**MARIN SEA LEVEL RISE**  
mean to you?

**JOIN US!**  
Thursday, July 10, 2014  
6:30 PM to 8:00 PM  
Red Barn Classroom  
Point Reyes National Seashore  
1 Bear Valley Road  
Nicasio, CA 95956

Collaboration:  
Sea-level Marin  
Adaptation  
Response Team  
(C-SMART)  
welcomes **YOUR**  
participation!

- Learn about C-SMART
- See areas that could be impacted in the future
- Understand future public involvement opportunities
- Get questions answered

FOR MORE INFORMATION, AND  
OPPORTUNITIES TO PARTICIPATE:  
[WWW.MARINSLR.ORG](http://WWW.MARINSLR.ORG)

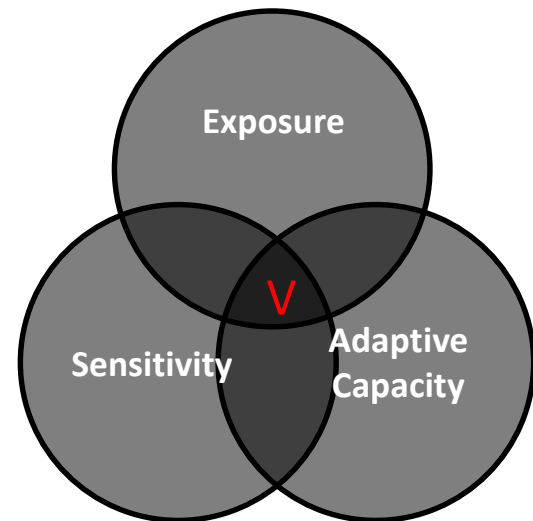


# Marin Ocean Coast Sea Level Rise Vulnerability Assessment

Collaboration: Sea-Level Marin Adaptation Response Team  
Marin County Community Development Agency  
September 2015 | Marin County, CA | [marinslr.org](http://marinslr.org)

## Five Scenarios:

- 10'' + ANNUAL STORM
- 10'' + 20 YEAR STORM
- 20'' + 20 YEAR STORM
- 3'3'' + 100 YEAR STORM
- 6'7'' + 100 YEAR STORM



Community Development Agency  
Collaboration: Sea-level Marin Adaptation Response Team  
August 2017 | [www.marinslr.org](http://www.marinslr.org)



# Stinson Beach

## Vulnerable Assets

Site Specific Assets Identified on Map

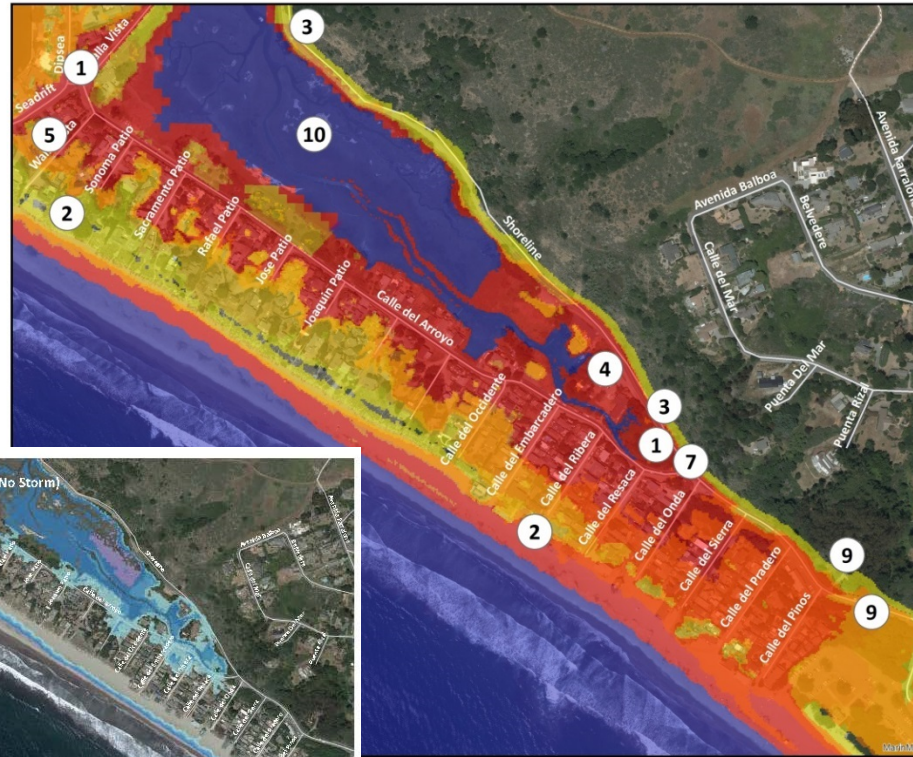
- 1 Calle del Arroyo
- 2 Upton Beach
- 3 Shoreline Highway
- 4 Water District Office
- 5 Walla Vista Walkway
- 6 Stinson Fire Department
- 7 CA Coastal Trail
- 9 Stinson Picnic Area
- 10 Bolinas Lagoon

Buildings Potentially Facing Hazardous Conditions plus some septic systems and water distribution lines  
Includes Seadrift

27 48 89 239 582

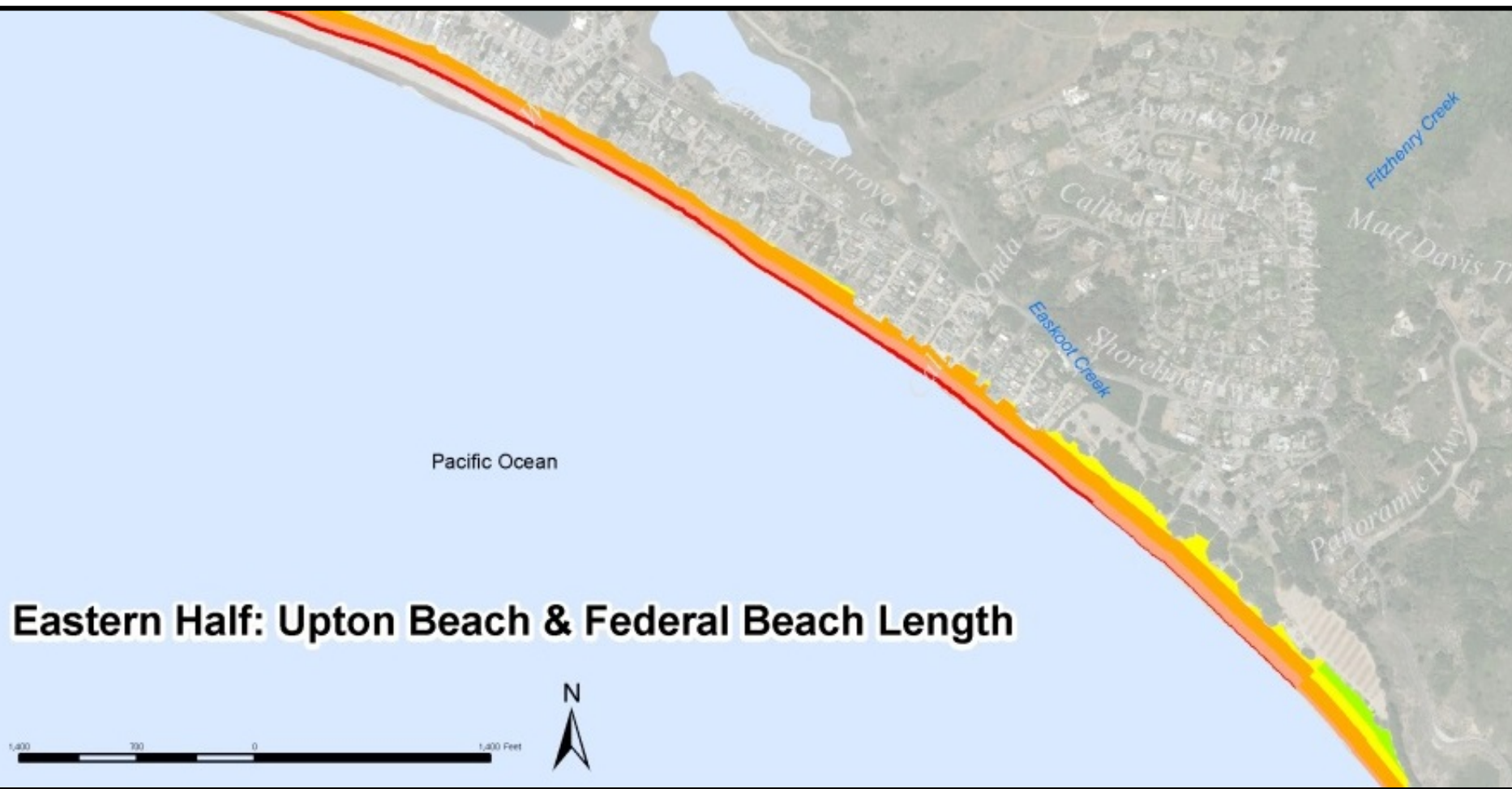
## Sea Level Rise (SLR) Scenarios

- Baseline No SLR / No Storm
- 25 cm (≈1 foot) SLR w/annual storm
- 25 cm (≈1 foot) SLR w/20 year storm
- 50 cm (≈2 feet) SLR w/20 year storm
- 100 cm (≈3 feet) SLR w/100 year storm
- 200 cm (≈6.5 feet) SLR w/100 year storm



Community Development Agency  
Collaboration: Sea-level Marin Adaptation Response Team  
September 2017 | [www.marinslr.org](http://www.marinslr.org)

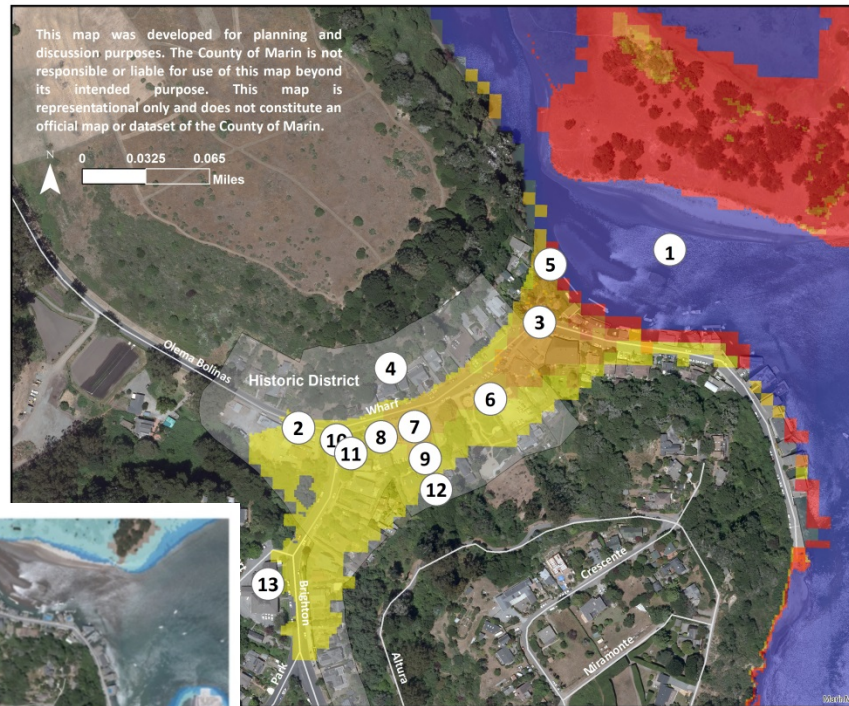




- Beach Loss @ 10 Inches SLR
- Beach Loss @ 20 Inches SLR
- Beach Loss @ 40 Inches SLR
- Beach Loss @ 80 Inches SLR
- Beach (around end of century)



# Bolinas



Community Development Agency  
 Collaboration: Sea-level Marin Adaptation Response  
 September 2017 | [www.marinslr.org](http://www.marinslr.org)



# East Shore (N)



# East Shore (S)



## Vulnerable Assets

*Site Specific Assets Identified on Map*

- 1 Hog Island Oyster
- 2 Marconi Boat Launch
- 3 Tony's Restaurant
- 4 Tomales Bay Oyster Company
- 5 Historic District
- 6 Shoreline Highway
- 7 Marshes

## Eastshore Buildings Potentially Facing Hazardous Conditions

43 59 61 56 125

## Sea Level Rise (SLR) Scenarios

- Baseline No SLR / No Storm
- 25 cm (~1 foot) SLR w/annual storm
- 25 cm (~1 foot) SLR w/20 year storm
- 50 cm (~2 feet) SLR w/20 year storm
- SLR100Wave100\_fidhazd\_Erase1
- 200 cm (~6.5 feet) SLR w/100 year storm



Community Development Agency  
 Collaboration: Sea-level Marin Adaptation Respc  
 September 2017 | [www.marinslr.org](http://www.marinslr.org)



# Transportation Vulnerabilities

	Shoreline Hwy	Sir Francis Drake Blvd.	Local/Private Roads
Scenario 5	6.70 mi (19%)	2.35 mi (17%)	10.4 mi (3.5%)

- Over 20 miles of exposed roadways in long term
- In some West Marin communities, alternative routes do not exist
- In some cases vulnerable roadways protect critical utility lines



# Adaptation Report

- Informational document compiling adaptation options proposed to date
- Next steps to carry forward potential options
- Non-regulatory, not-a-plan

## Marin Ocean Coast Sea Level Rise Adaptation Report

**PUBLIC REVIEW DRAFT**

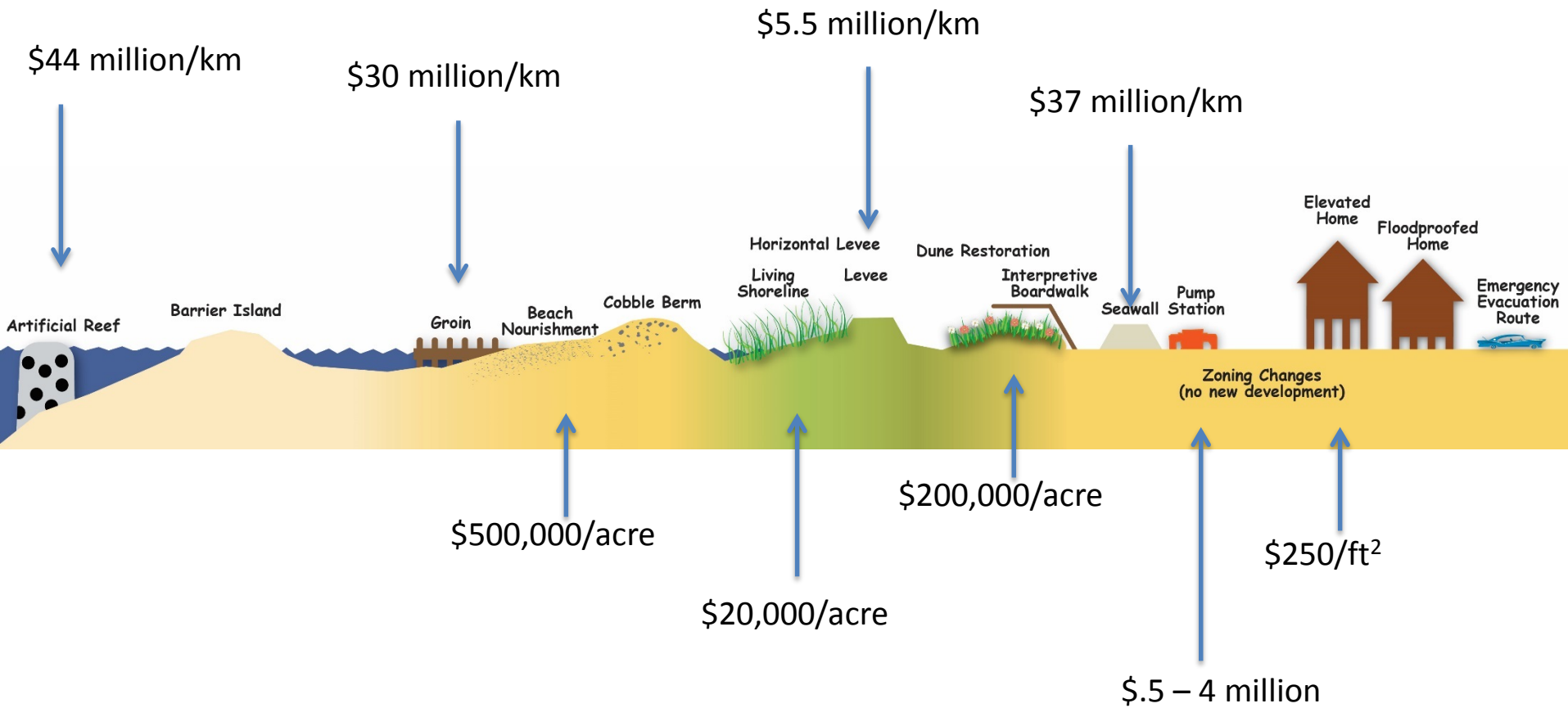
Collaboration: Sea-Level Marin Adaptation Response Team  
Marin County Community Development Agency  
May 2017 | Marin County, CA | [marinslr.org](http://marinslr.org)



Community Development Agency  
Collaboration: Sea-level Marin Adaptation Response Team  
September 2017 | [www.marinslr.org](http://www.marinslr.org)



# Community Options?



Community Development Agency  
Collaboration: Sea-level Marin Adaptation Response Team  
September 2017 | [www.marinslr.org](http://www.marinslr.org)

# Parcels and Buildings

- LCP Environmental Hazards policies – safe development
- 3 feet additional elevation
- innovative designs  
(wet/dry floodproofing, flood gates, drainage improvements, and amphibiation)





# Transportation

- Shoreline Highway and county roads as part of the Regional Transportation Plan
- Further Assess Eastshore Bulkheads
- 3 feet SLR for Capital Improvement Projects
- Flooding triggers for road adaptation
- Post-disaster recovery
- Road Closure Signage



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# Utilities

- Adapt utilities, retrofit OWTS
- 3 feet SLR
- Investigate groundwater levels with local utility districts
- Explore share public wastewater treatment systems



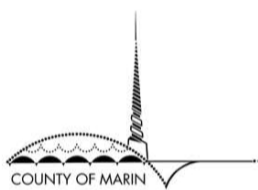


# Emergency Services

- Partner with Local Hazard Mitigation Plan
- Adapt vulnerable emergency facilities
- Additional emergency response teams and resources
- Alternate evacuation routes



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COMMUNITY DEVELOPMENT AGENCY  
PLANNING DIVISION

**Collaboration: Sea-level Marin Adaptation Response Team  
Summer 2017 Public Workshops**

THUR. 6/08

6:30 to 8:30 pm

Point Reyes Station Dance Palace

WED. 6/14

6:30 to 8:30 pm

Stinson Beach Community Center

## WELCOME!

Thank you for attending this workshop, the fifth in a series hosted by the Marin County Community Development Agency as part of the Collaboration Sea Level Marin Adaptation Response Team (C-SMART). Previous workshops have focused on identifying vulnerable assets and possible adaptation strategies. This information can be found in the Vulnerability Assessment and Draft Adaptation Report at [marinSLR.org](http://marinSLR.org)

While previous passports and surveys have focused on the *where* and *what* of adaptation, this passport seeks to understand the *how*. The County Board of Supervisors (BOS) C-SMART workshop is scheduled for 8/1/17 to discuss next steps and in advance we want to hear from YOU on prioritization. While no financial resources are currently secured, the Community Development Agency remains committed to addressing Sea Level Rise adaptation through existing staff time and will be developing work programs for the next phases. Your input will be used to inform the County staff recommendations for the BOS workshop. The workshop will also provide an opportunity for local residents to articulate the needs they see for continued sea level rise adaptation.

The following are taken from the public review draft Adaptation Report next steps. These next steps are not focused on the physical adaptation measures, but rather institutional changes that could be made to support a framework for continued adaptation planning. The existing Vulnerability Assessment and Adaptation Report will be used as a basis for discussion through many of these next steps. Currently these are draft concepts that have not been vetted with Marin County elected officials.



Staff will collect completed passports at this meeting. If more time is desired, the passport can be sent to Alex Westhoff no later than 6/23 (email: [awesthoff@marincounty.org](mailto:awesthoff@marincounty.org), mailing address and fax number below). Passport questions will also be posted on online through 6/23.

# 5 Ws • 1 H

**WHY** are the seas rising?

**WHERE** will SLR occur?

**WHEN** could impacts occur?

**WHO** manages the assets?

**WHAT** strategies are available?

**HOW** will we address this challenge?



# Passport Options

## NUMBER OF 'HIGH' VOTES

- **Homeowners Guide to Sea Level Rise – 58**
- **Consider SLR in Capital Improvement Projects – 58**
- **Community Plans for Adapting to Coastal Hazards – 48**
- **Interagency SLR Task Force – 43**
- **Home Retrofitting Options Guidance – 39**
- **Land Use/Zoning/Legal Evaluation – 37**
- **Sonoma/Marin County Sediment Management Working Group – 36**
- **Marin Countywide Plan Update w/SLR – 33**
- **Subcommittee to Prioritize C-SMART Next Steps - 31**
- **Citizen Science Monitoring Program – 23**
- **High School SLR Program - 23**



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# MARINSLR.ORG



Caden at the Beach September 2013. Credit: Rendel

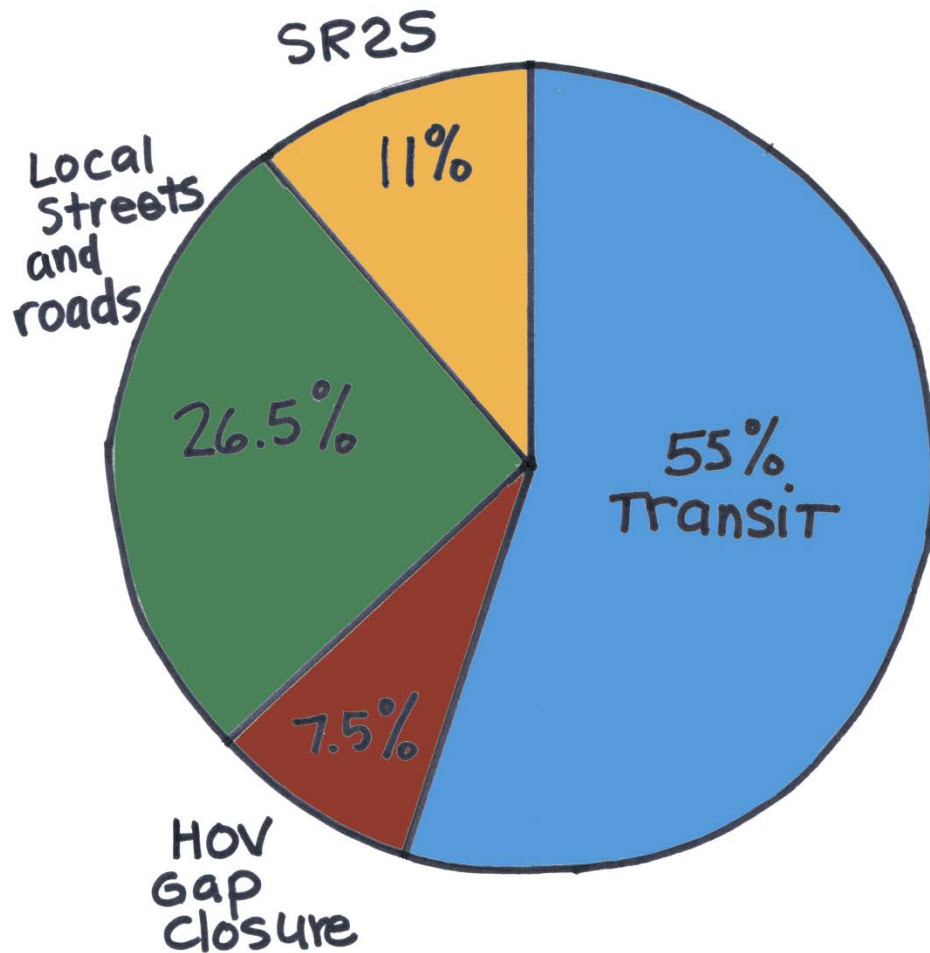
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**TAM EPAC**

**9/6/17**



# CURRENT MEASURE A PROGRAMS



1. Develop a seamless **local bus transit system** that improves mobility and serves community needs, including special transit for seniors and the disabled (paratransit services)
  - a. Maintain and improve existing levels of bus transit service throughout Marin County
  - b. Improve the frequency of buses in high volume corridors
  - c. Implement small bus and community –based shuttles in many neighborhoods
  - d. Implement school bus service enhancements
  - e. Maintain and expand the rural bus transit system
  - f. Improve bus services between Marin County and San Francisco
  - g. Maintain and expand transit services and programs for those with special needs – seniors, persons with disabilities, youth and low income residents
  - h. Invest in bus transit facilities for a clean and attractive transit system
  - i. Provide matching funds for bus transit improvements
2. Fully fund and ensure the accelerated completion of the **Highway 101 Carpool Lane Gap Closure Project** through San Rafael
3. Maintain, improve and manage Marin County’s local transportation infrastructure, including **roads, bikeways, sidewalks and pathways**
  - a. Maintain, improve and manage our major roadways, bikeways, sidewalks and pathways
  - b. Maintain, improve and manage our local roadways bikeways sidewalks and pathways.
4. Reduce **school related congestion** and provide safer access to schools
  - a. Maintain and expand the Safe Routes to Schools Program
  - b. Provide crossing guards at key intersections
  - c. Provide capital funding for Safe Pathways to Schools projects

If the measure is **renewed**, what would you include?

**Transit**

**Streets  
Roads  
Paths**

**SR2S**

**Highways**

**Something  
else?**



If the measure is **expanded**, what would you include?

Transit

Streets  
Roads  
Paths

SR2S

Highways

Something  
else?

What **questions** do you need answered,  
in order to make good decisions?