# ADAPTING TO SEA LEVEL RISE IN THE SOUTH COAST

OFFICE OF SUSTAINABILITY
COUNTY OF SAN MATEO

SEA CHANGE
SAN MATEO COUNTY

SAN MATEO
RESOURCE CONSERVATION DISTRICT

SOUTH COAST SUSTAINABLE
CREATING PLACES FOR COMMUNITY

Photo by Swan Dive Media

# Office of Sustainability Mission

We are committed to building a sustainable community that fulfills the needs of the present and future.


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# Office of Sustainability Highlights

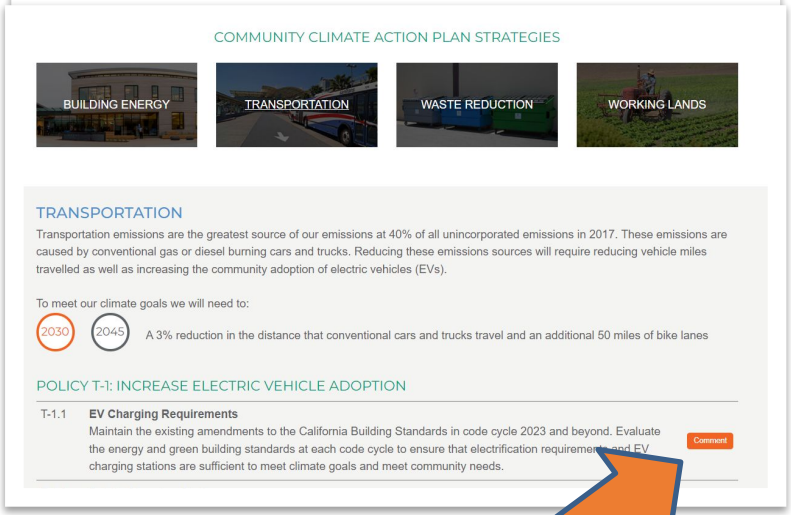
- Climate Readiness
- Electrification, Energy Efficiency
- Local Water Quality
- Alternative Transportation
- Home For All
- Organic Waste Diversion

# Community Climate Action Plan

**Final Public Comment Period Closes April 29**

1. Online interactive open house: make comments directly on proposed actions
2. Survey
3. **Live virtual event *tomorrow April 14th at 6pm*** focused on Climate Beneficial Agriculture (Spanish and English)






Comment on actions here!

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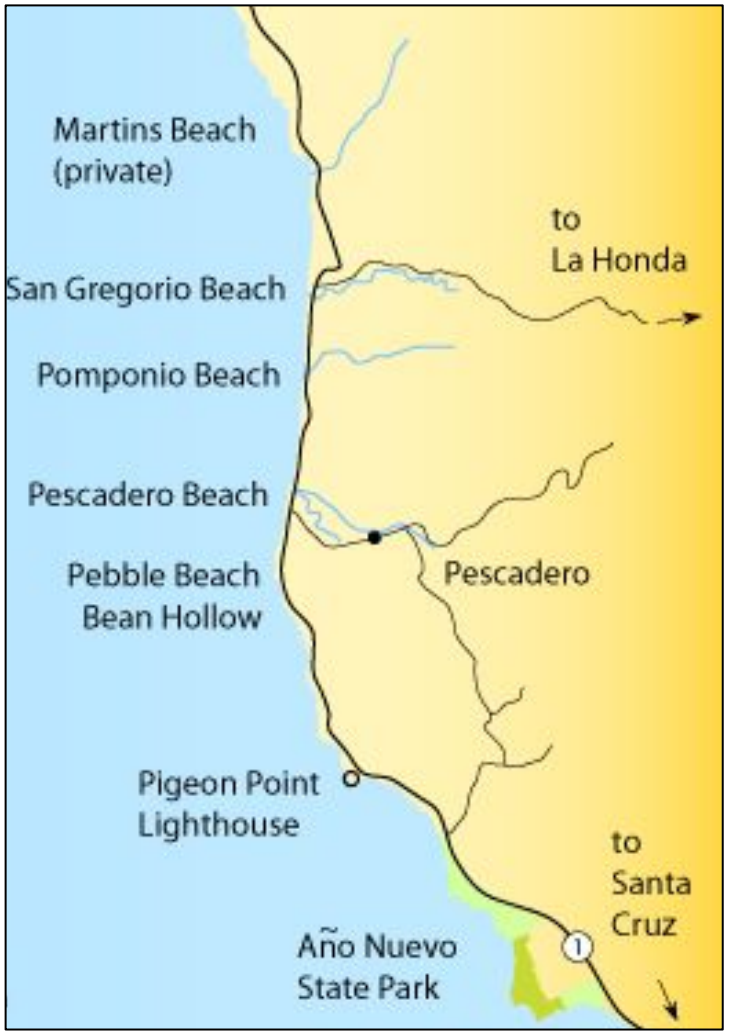
# CCAP Project Timeline and Next Steps


**Next steps:**

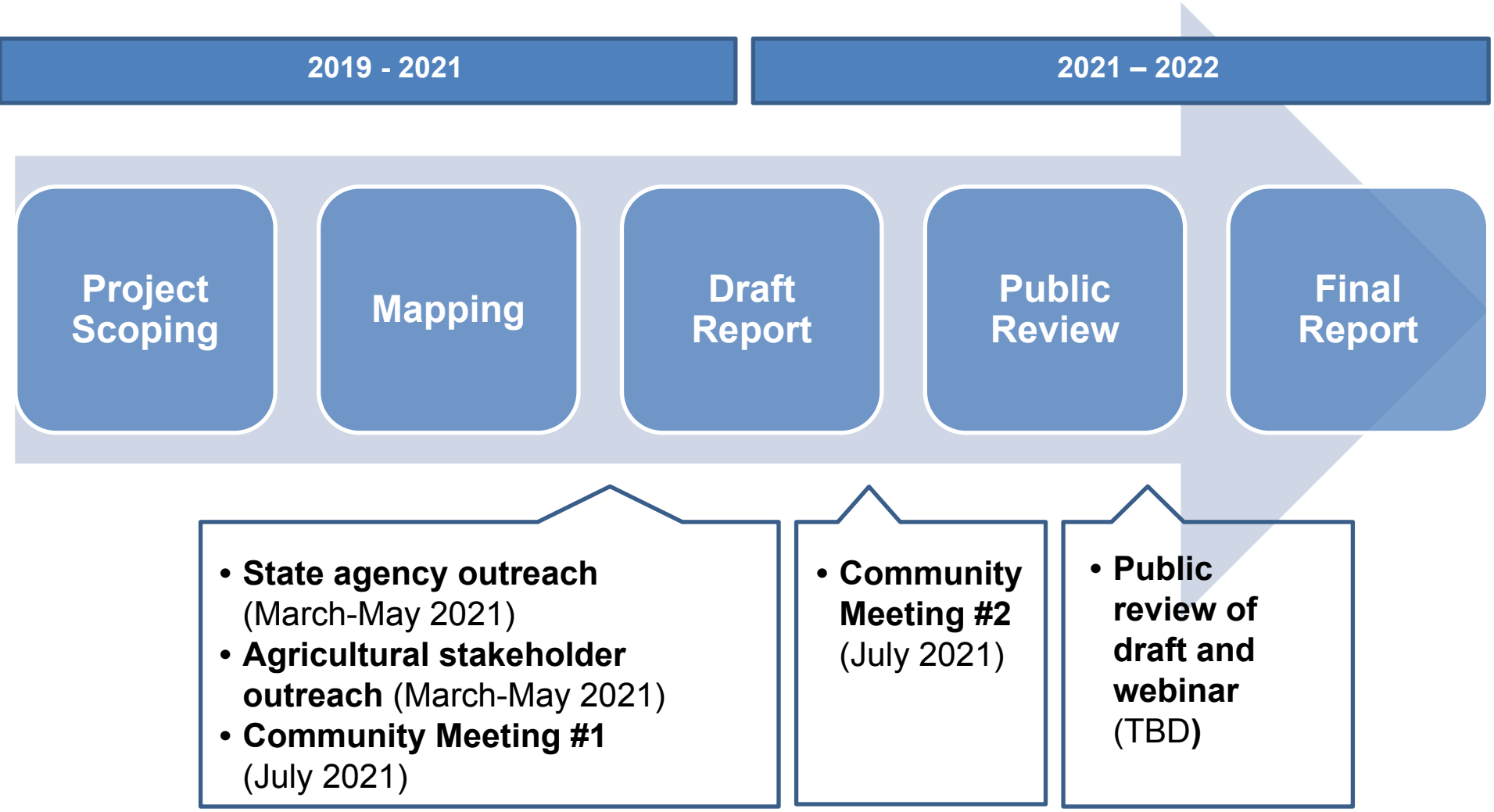
- March 30, 2022 – April 29, 2022: Public review period
- April 27, 2022: San Mateo County Planning Commission study session
- May 25, 2022: San Mateo County Planning Commission
- Summer 2022: Presentation to County of San Mateo County Board of Supervisors to consider for adoption

# South Coast Sea Level Rise Vulnerability Assessment and Adaptation Report

- Analyzed flood and erosion impacts to structures, roads, coastal access, and agricultural parcels using 4 SLR scenarios
- Provides range of potential adaptation strategies
- Study Area: southern Half Moon Bay to south county line



# Stakeholder and Community Engagement



# Check out our Story Map

# Findings: *Highway 1*

| Impacts | Potential Adaptation Actions |
| --- | --- |
| • Erosion impacts projected to heighten over time, undermining integrity of roadway<br><br>• Key concern areas are near Bean Hollow, Pomponio, and Pescadero Beach | • Complete site-specific assessments to inform project planning and long-term adaptation planning |

# Findings: *Coastal Access*

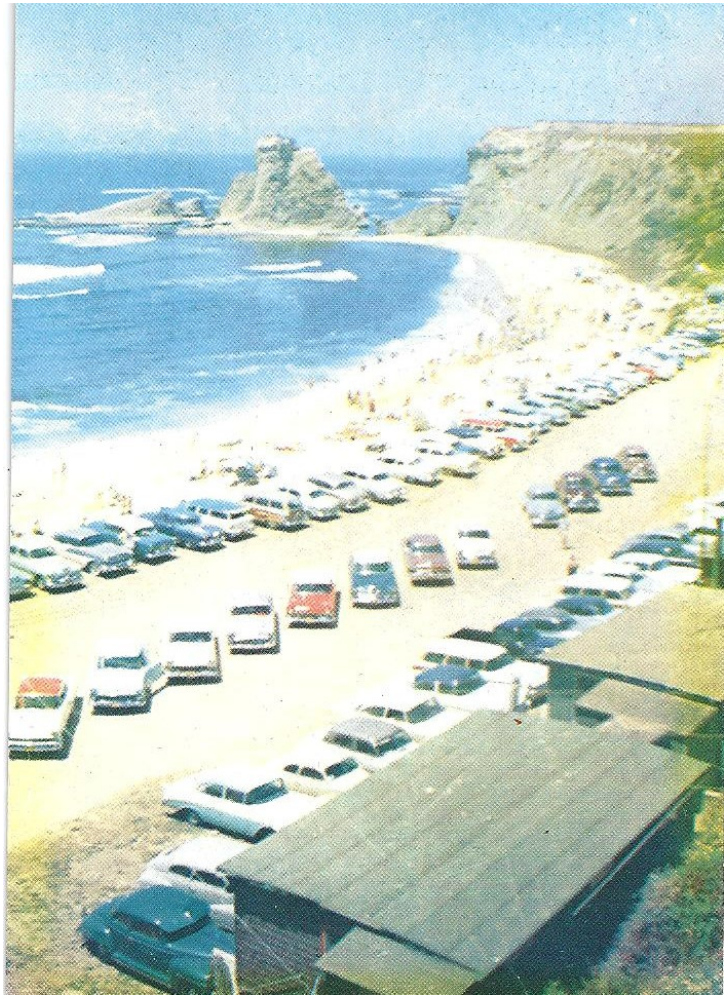
| Impacts | Potential Adaptation Actions |
| --- | --- |
| • **Coastal access points, beaches, trails, parking** and **restrooms** are already impacted by flooding and erosion, and will be further impacted with SLR | • Complete site-specific vulnerability assessments to inform project planning and long-term adaptation planning<br>• Use nature-based systems to strengthen the shoreline<br>www.parks.ca.gov/SeaLevelRise |

# Findings: *Coastal Communities*

## Impacts

- **Martin's Beach** to be impacted by increased coastal flooding with limited long-term effectiveness of armoring

- **Pescadero** projected to be impacted by increased flooding, impacting homes, agricultural land, and transportation access



# Key Findings: *Coastal Communities*

## Potential Adaptation Options

### Hazard Reduction

- Plan and implement more creek and floodplain restoration projects
- Dune/habitat restoration to reduce erosion and/or flooding

### Community Resilience

- Address underlying community stressors (e.g., vulnerability reduction)

### Knowledge Building

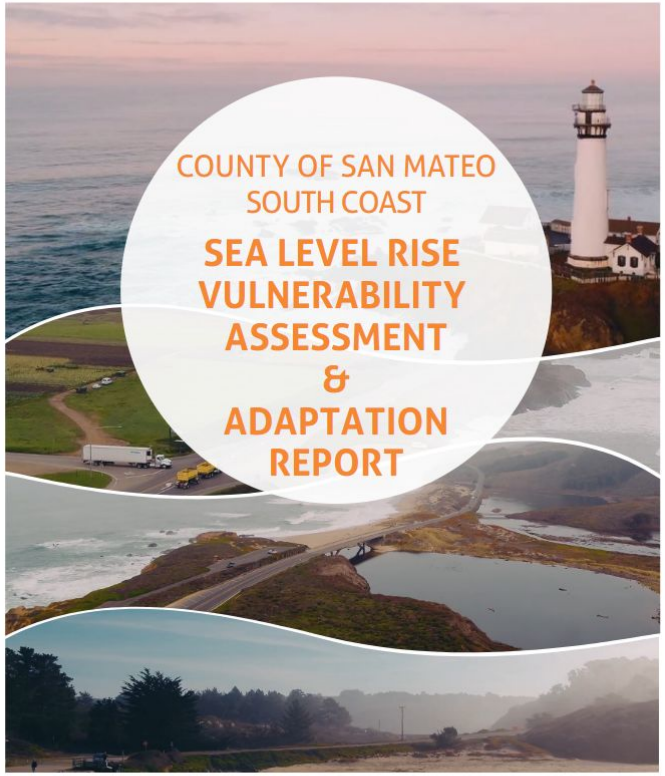
- Study sea level rise effects on groundwater
- Plan for and test flood- and saltwater- resistant crops

### Impact Reduction

- Storm proof and elevate structures
- Identify and relocate hazardous materials
- Elevate, widen, or re-align roads
- Use agricultural practices that build soil health and productivity

# Next Steps

- Encourage use of the project Story Map in English: **qrco.de/SCsIrSM** and Spanish: **qrco.de/EspSM**
- Release Vulnerability Assessment and Adaptation Report for public review
- Assess risk reduction project opportunities to integrate into current planning efforts



# *THANK YOU FOR LISTENING!*

**Public draft for review this Spring**.

Learn more about this project at:

**seachangesmc.org/current-efforts/south-coast/**

CONTACT US:

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# What the study looked at

- Flooding and erosion impacts based on four sea level rise (SLR) scenarios
  - 0 SLR (Baseline) and 100-year storm
  - 0.8 feet SLR (2030) and 100-year storm
  - 1.6 feet SLR (2030-2060) and 100-year storm
  - 4.9 feet SLR (2060-2100) and 100-year storm
- Model produced by Integral Consulting, Inc. mapped areas affected by flooding and/or erosion