



# The Resilient Shorelines Project



Association of Bay Area Governments  
Bay Area Air Quality Management District  
Bay Conservation and Development Commission  
Metropolitan Transportation Commission

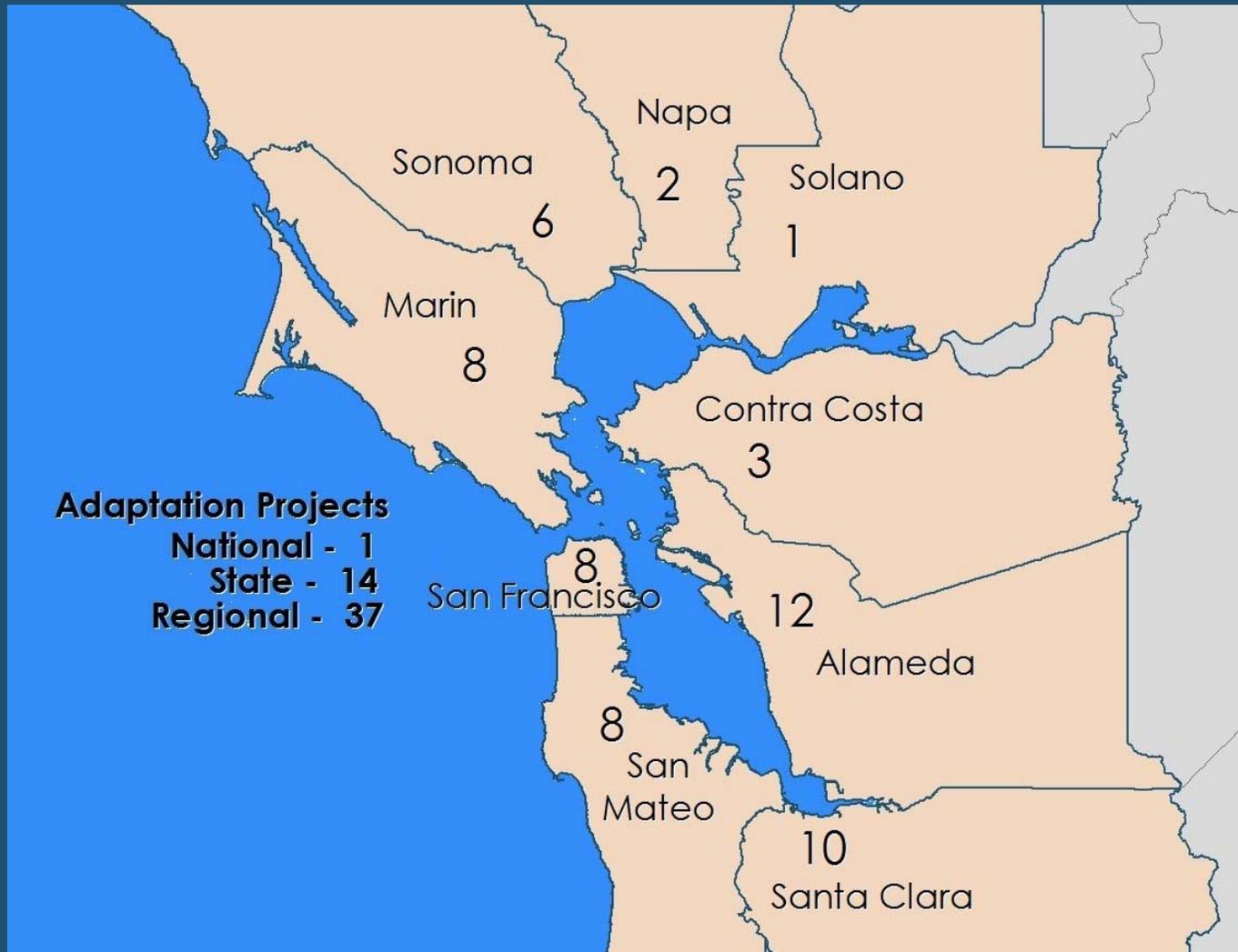
# Resilient Shorelines

## Presentation Summary

- Progress Update – Approved Work Plan
- Project Evolution
- Review Alternative Schedule
- Consider Multi-Hazard Strategy

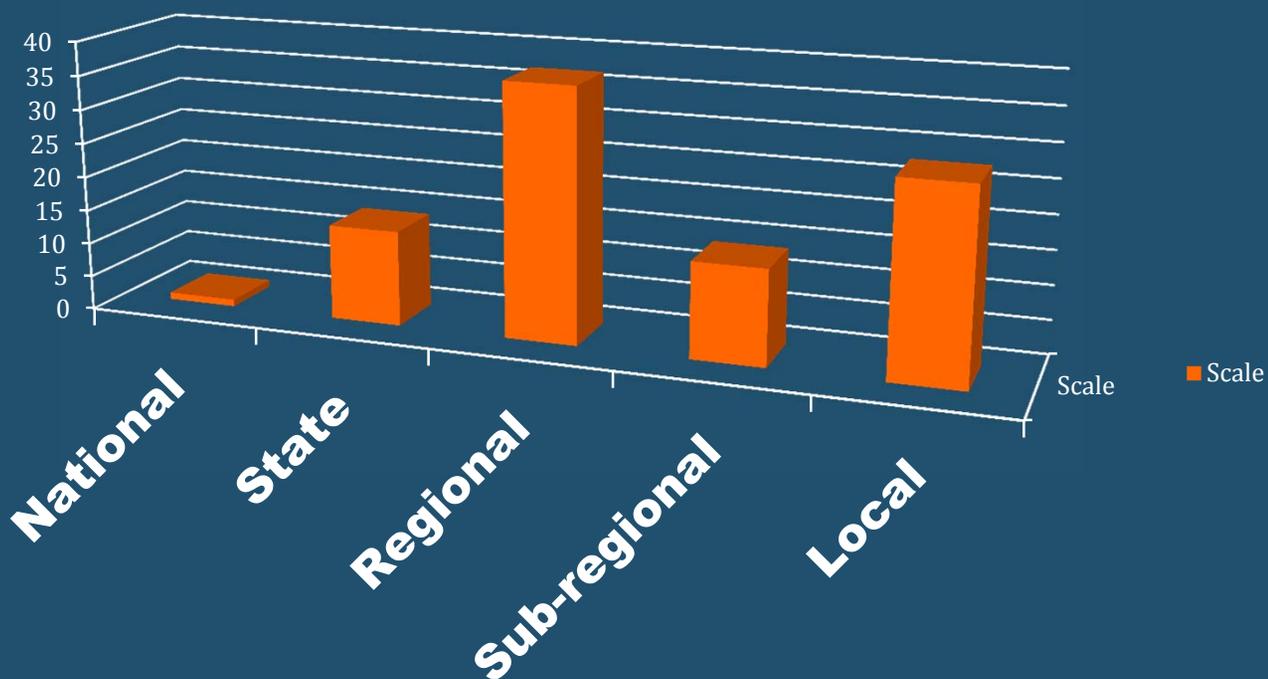


# Regional Projects Location



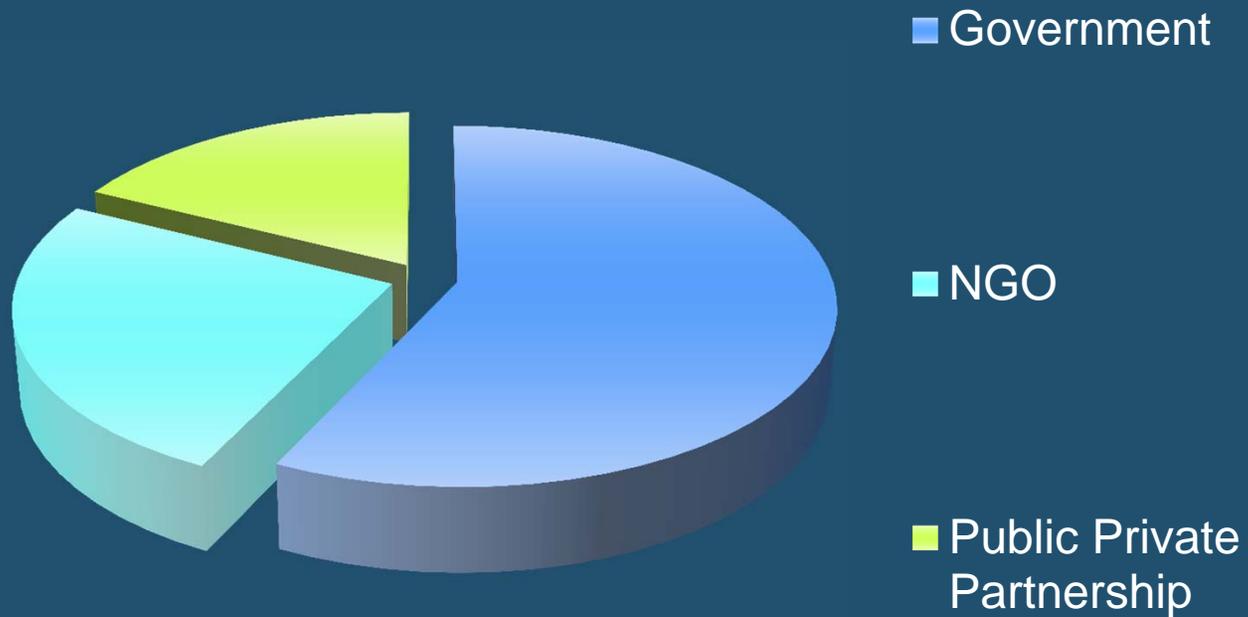
# Regional Adaptation Projects

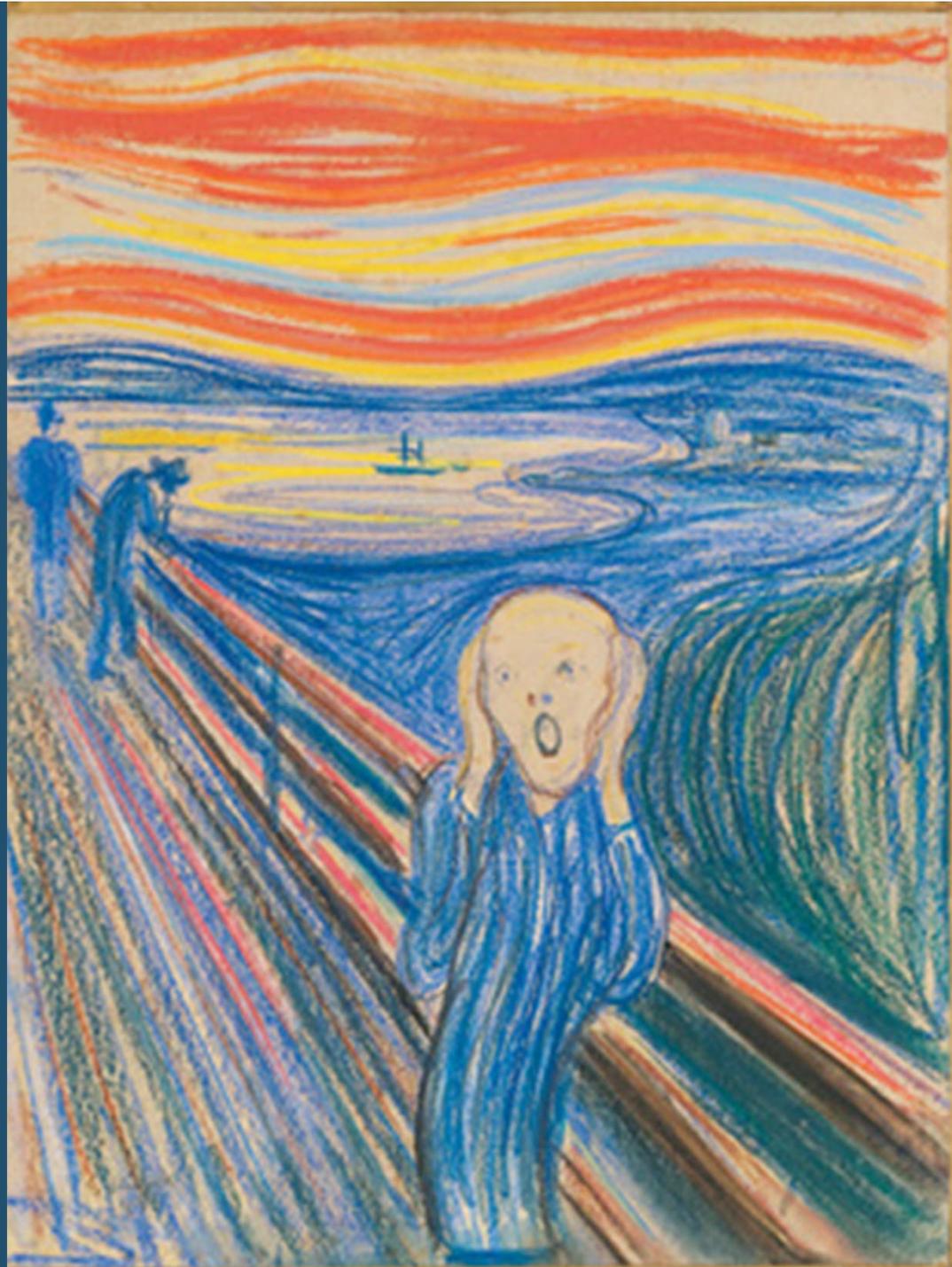
## Geographic Scale



# Regional Adaptation Projects

## Project Lead





# Resilient Shorelines Goal

The regional resilience strategy will increase the preparedness and resilience of Bay Area communities to sea level rise and other climate change impacts while protecting ecosystem and community services.



Photo: Ingrid Taylor

# JPC Adopted Work Plan

- **Task 1: Complete Ongoing Work (2013)**
- **Task 2: Conduct Subregional Shoreline Resilience Planning – Second SCS (2017)**
- **Task 3: Develop Regional Strategy - Third SCS (2021)**



# Resilient Shorelines

## Guiding Principles

- **Work With Local governments**
- **Work with Diverse Stakeholders**
- **Address Built and Natural Environments**
- **Promote Sustainability**

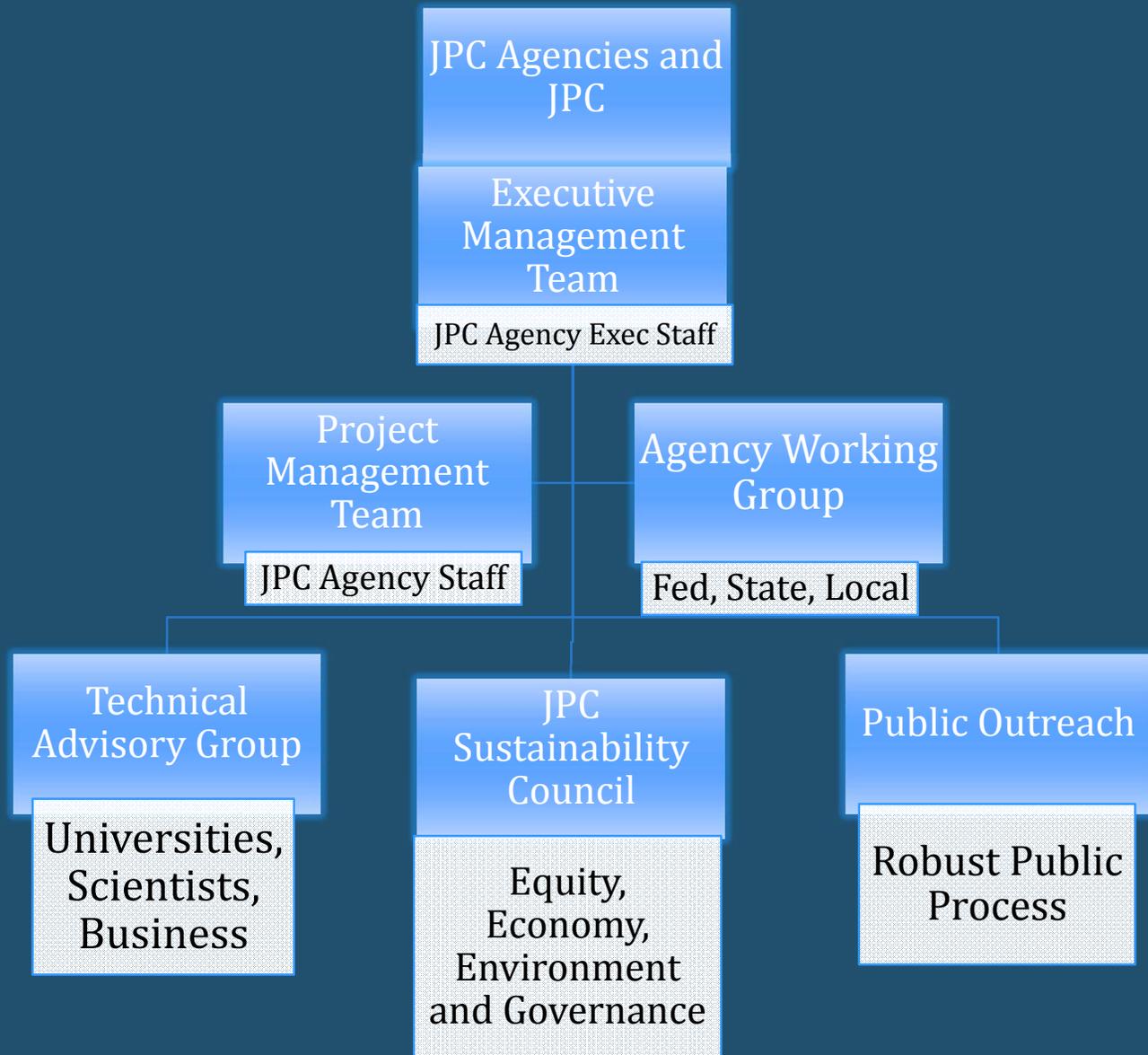




## Sources

- Plan Bay Area
- Adapting to Rising Tides Project
- Regional Resilience Initiative
- South Bay Salt Pond Restoration Project

# Agency Process Working Relationships



## **Task 1: Collaboration and Integration**

- **Adapting to Rising Tides + Research**
  - **Bay Area Climate and Energy Resilience Project**
  - **Regional [Earthquake] Resilience Initiative**
  - **Flood Control 2.0**
  - **Sustainable Communities Strategy**
- 

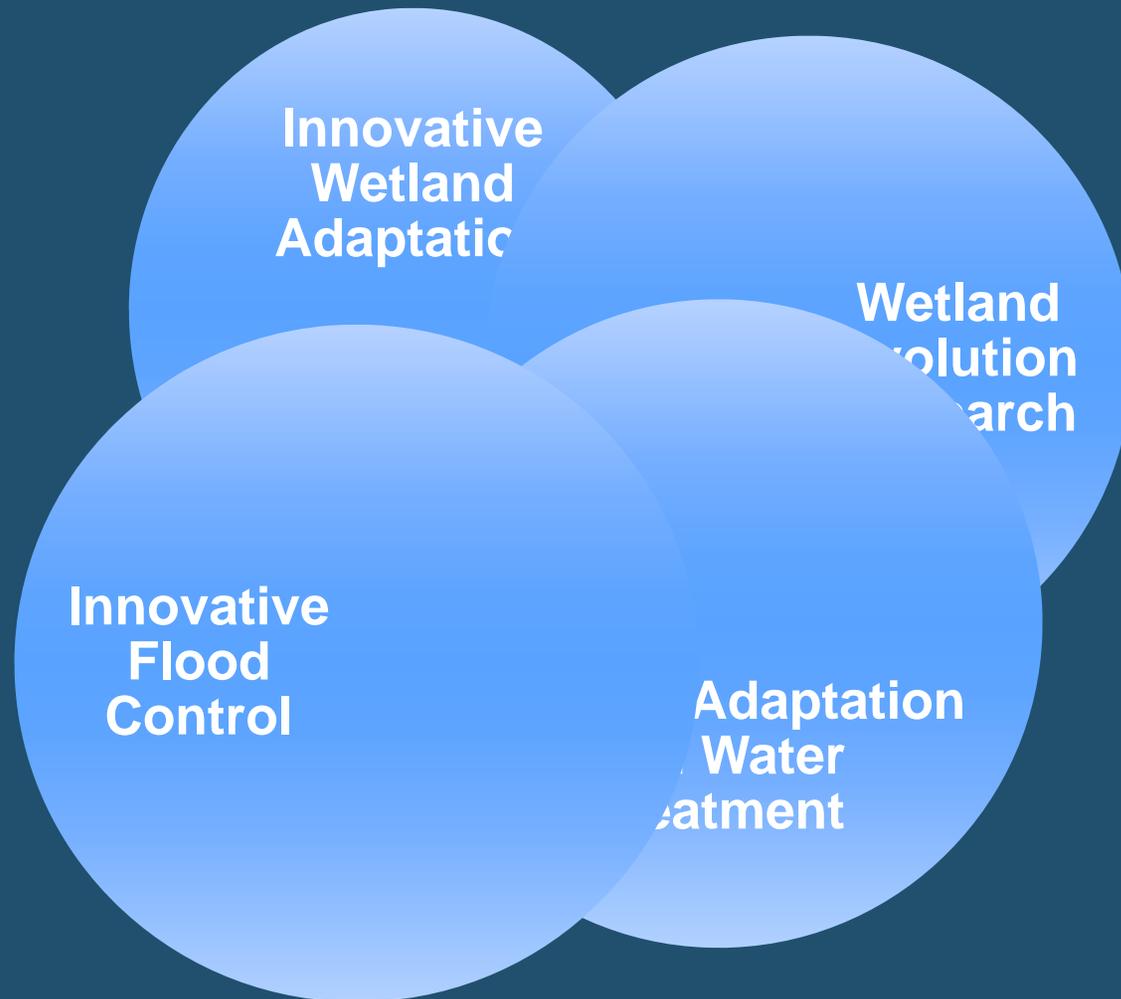
# Collaboration on Governance

**Adapting to  
Rising Tides**

**Climate and  
Energy**

**Resilience  
Initiative**

# Collaboration on Nature-based Solutions



# Resilient Shorelines + ART Project



## ART Project Partners

- ABAG
- Bay Trail
- Caltrans
- City of Alameda
- Alameda County
- BART
- California Coastal Conservancy
- Capitol Corridor JPA
- East Bay Dischargers Authority
- East Bay Municipal Utility District
- East Bay Regional Park District
- City of Emeryville
- City of Hayward
- Hayward Area Rec. and Park District
- ICLEI
- City of Oakland
- MTC
- NOAA CSC
- Port of Oakland
- City of San Leandro
- City of Union City

# ABAG Resilience Initiative

- **Goal:** Improve the resilience of the Bay Area by planning to more quickly and efficiently recover from disasters by:
  - Developing a process through which stakeholders can build resilience
  - Identifying specific recovery issues that require jurisdictional coordination
- **Outcome:** Four policy papers on governance, economy, housing and infrastructure with recommendations for regional actions to increase resilience
- **Next Steps:** Implement the recommended actions in collaboration with the SCS, Sea Level Rise Adaptions Strategies and other regional initiatives as appropriate.



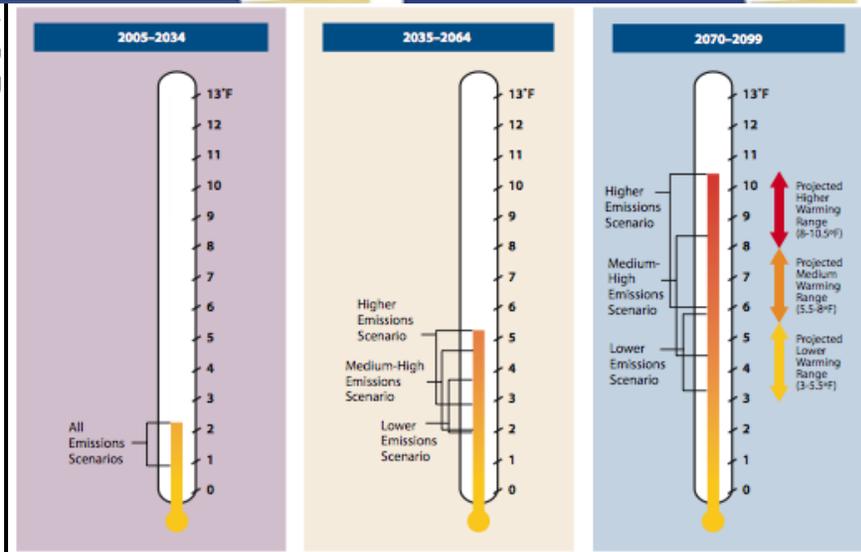
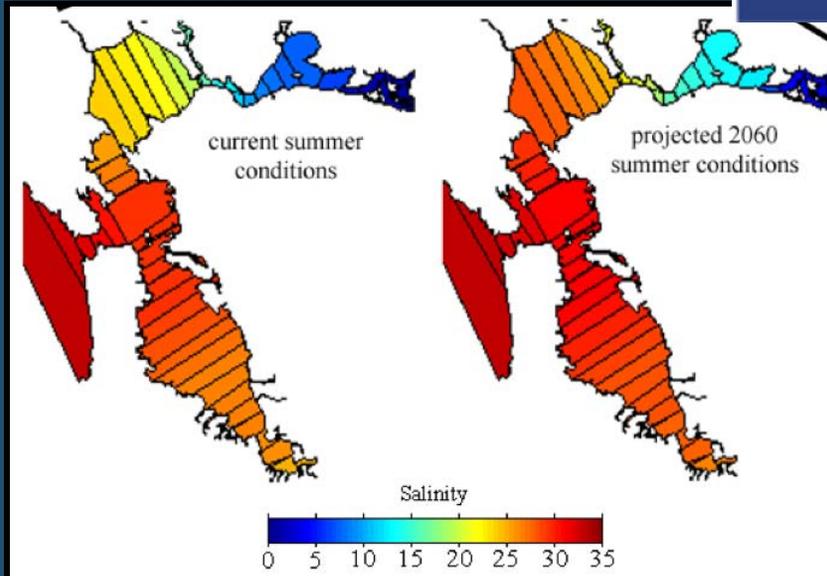
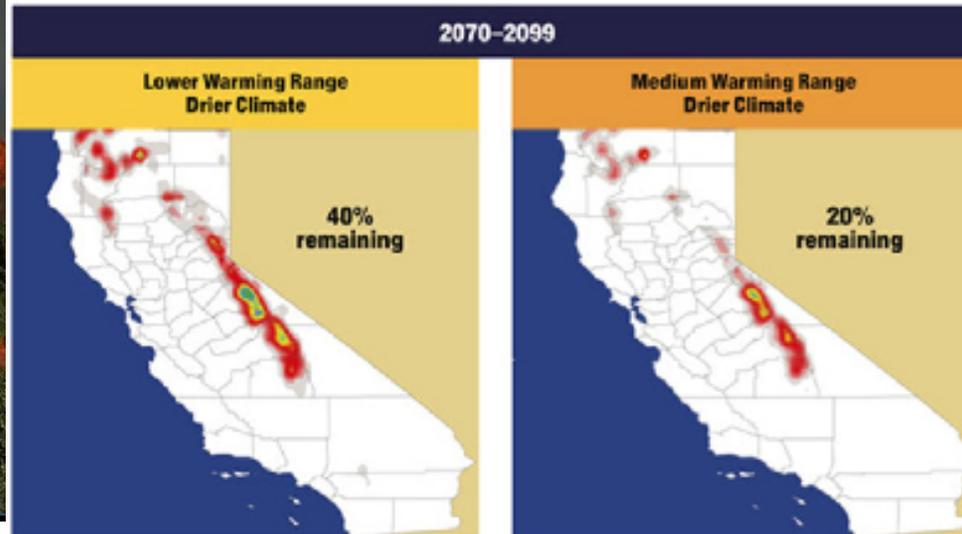
# Alternative Schedule

Year 1	Year 2	Year 3	Year 4	Year 5
<b>Scope and Organize</b>	<b>Vulnerability Assessment</b>	<b>Vulnerability, Adaptation Governance</b>	<b>Develop Regional Strategy Proposal</b>	<b>Pursue Implementation Options</b>
Establish Project management team, working groups, technical/science advisors, working relationships and public process	Refine Impacts Assessment and inventory critical community assets	Complete Vulnerability Assessment	Refine Vulnerability Assessment	
Determine climate impact approach (range of scenarios, planning timeframe)	Conduct Vulnerability Assessment	Commence developing Adaptation Strategy Options	Finalize Adaptation Strategy Options	
Identify planning area boundaries, establish project goals	Prioritize Planning Issues, Adjust goals as needed	Commence developing Governance Options	Develop Implementation Options	
Summarize Climate Change Impacts	Establish resiliency goals		Finalize Governance Proposal	

# Other Climate Impacts



## Decreasing California Snowpack



# Regional Resilience Strategy



Phase 1

Resilient Shorelines



Subsequent Phases

Integrate other  
Impacts

Water, Energy, Food,  
Health, Fire, Other



Implementation and Monitoring

Adaptive Management

# Resilient Shorelines Project

## Topics for Ongoing Discussion

- Schedule
- Public Funding
- Private Funding

