## Regional Shoreline Adaptation Plan

Resilient Sonoma Shoreline: The Role of Regional Shoreline Adaptation Plans

Summer 2024

### No matter where you live, shoreline flooding will impact everyone in the Bay Area

#### What's at risk? (40-100 years)





2/3 of California's sea level rise impacts will be felt in the Bay Area

No matter where you live, shoreline flooding will impact everyone in the Bay Area



## How Much Will it Cost?

# Adaptation Needs \$110 billion<sup>1</sup>

Estimated cost of sea level rise adaptation through 2050 (in Year of Expenditure dollars)

- \$52 billion: Estimated cost for known or planned projects
- \$54 billion: Estimated placeholder cost
   for areas with adaptation needs
- \$3 billion: Estimated additional sediment management needs<sup>3</sup>

## Cost of Inaction



Estimated value of a subset of assets at risk through 2050

The cost of inaction is far higher than the cost of adaptation. We stand to lose much more if we do not act

<sup>1</sup> In year of expenditure (YOE) dollars. <sup>2</sup> In 2022 dollars. <sup>3</sup>Estimate developed by BCDC and SFEI analysis.

## Sonoma County Highlights

Petaluma River Baylands Strategy



Estimated median cost: \$14.4 million Project type: Green Adaptation types: Restoration/Rehabilitation/En hancement Protective to 4.9 ft. TWL: Yes Project status: Study Lakeville

Burdell

Russian River Estuary Management Program Gleason Beach Highway 1 Roadway

Big Be

Sonoma \$8 B Tubba laland laura

Tubbs Island Levee Improvement Project

Sonoma Projects (by estimated cost)

SR-37 Corridor (with Marin, Napa, and Sonoma)

Petaluma River Baylands Strategy (with Marin)

Sonoma Creek Baylands Strategy (with Napa, Solano)

Skaggs Island and Haire Ranch Restoration (with Napa)

Black Point

lariı Kevs

Project Type Grey Hybrid Green Placeholders



## New legislation to support sea level rise adaptation (SB 272, 2023)

- Mandates local jurisdictions to develop subregional resiliency plans and for BCDC to develop guidelines that those plans must follow
- Requires BCDC to review and approve or deny - plans based on consistency with guidelines
- **Prioritizes State funding** to create plans and for projects in approved plan jurisdictions
- Guidelines to be adopted by BCDC by 12/31/2024



Aligned
On Track
Linked to funding

## Why do we need a Regional Shoreline Adaptation Plan?



- Priority resources to frontline communities
- Long-term health of wetlands
- Strategic implementation
- Common standards and methods
- Pipeline of funding
- Track and measure progress



Regional Shoreline Adaptation Plan

## Working With And Listening To The Region



## Sonoma County Electeds Engaged with BCDC

#### **Commissioners and Alternates**

- Susan Gorin, Sonoma County Board of Supervisors (Commissioner)
- David Rabbitt, Sonoma County Board of Supervisors (Alternate)

#### Local Electeds Task Force

- Janice Cader Thompson, City of Petaluma
- Sandra Lowe, City of Sonoma



## How do we start developing guidelines?



## What Constitutes The Regional Shoreline Adaptation Plan?





## Where are we now?

## WHAT IS A SUBREGIONAL PLAN?

#### Possible Scale and Leads

- County Plan
- Single Jurisdiction
   Local Plan
- Multi-Jurisdictional Local Plan
- Combo

#### **Plan Contents**

- Vulnerability
   Assessment
- Adaptation Pathways
- Project List
- Land Use Plan
- Implementation Plan

## Submission and Adoption

- Submit to BCDC for approval
- Local adoption
- Incorporated into local plans
- Eligible for prioritized funding for projects after adoption

## Subregional Plan Requirements Key Concepts

#### **County Plan**

- Covers unincorporated parts of the county
- Coordinates and
   organizes local plans

#### **Local Plans**

 Jurisdictions may submit either a single jurisdiction local plan or partner with their neighbors to submit a multi-jurisdiction local plan

#### **County Subregional Resilience Plan**

Single Jurisdiction Local Plan (large or high capacity jurisdictions or those that already have a plan in place)

#### Multi-Jurisdiction Local Plan

(organized around OLU, shared landscape feature/shoreline reach, or to leverage additional capacity)

**Subregional Shoreline Resiliency Plan** 

## **Draft Guidelines Key Elements**

#### **Plan Element Guidelines**

- 1. Element A: Overview of Planning Process
- 2. Element B: Existing Conditions
- 3. Element C: Vulnerability Assessment
- 4. Element D: Adaptation Strategies and Pathways
- 5. Element E: Project List
- 6. Element F: Land Use Plan
- 7. Element G: Implementation Plan

#### **Minimum Standards and Considerations**

- 1. Equitable Engagement and Participation Standards
- 2. Time Horizons Standards
- 3. Flood Hazard Standards
- 4. Minimum Assessment Categories
- 5. Vulnerability Assessment Standards
- 6. Adaptation Strategy Standards

## How can the RSAP assist local governments?

- Reduce uncertainty surrounding climate change adaptation plans and projects
- Provide needed resources for planning and projects
- Plan in an integrated way
- Prioritize EJ communities, local and regionally-significant infrastructure, habitats, and areas most at risk into a cohesive planning process
- Require collaboration for multi-benefit and multi-jurisdictional adaptation projects



## **RSAP – What's Next**

- Sea Level Rise **Planning Grants available now** from Ocean Protection Council!
- Local Electeds Task Force meeting
- Launching a **Shoreline Leadership Academy** to build capacity for community-driven planning
- **Public review and Commission approval** of RSAP guidelines in December 2024
- Technical and policy assistance program to help plans get developed in 2025
- Long-term **funding strategy** how will the region pay for this and decide what to fund first?
- Aligning permitting with innovative planning





## **Stay Involved**

Learn more & sign up for our newsletter at

www.bayadapt.org

## Larry Goldzband

Executive Director Larry.Goldzband@bcdc.ca.gov

## Dana Brechwald

Assistant Planning Director for Climate Adaptation <u>Dana.Brechwald@bcdc.ca.gov</u>