

The background of the slide is a satellite map of the Pacific Northwest coast of North America. It shows the coastline from British Columbia down to Washington state, with various geographical features like mountains, forests, and urban areas. A dark blue overlay covers the left side of the image, where the text is placed.

Regional Shoreline Adaptation Plan

An implementing project of **BAY ADAPT**

Introduction to the Regional Shoreline Adaptation Plan

Webinar

September 19, 2024

Webinar Goals

- ✓ **Become familiar with the Regional Shoreline Adaptation Plan's purpose, content, and outcomes**
- ✓ **Clarify local government responsibilities for Subregional Shoreline Adaptation Plans, per SB 272**
- ✓ **Get communities and other interested parties engaged in the planning process**
- ✓ **Generate engagement in the public comment period between now and October 18**

Who's in the Room

1. **What sector are you coming from?**
2. **What county do you work in?**



Agenda

Welcoming Remarks, BCDC Chair Zack Wasserman	5 min
Short Video	5 min
I. Introducing the Regional Shoreline Adaptation Plan and Roles of Local Governments per SB 272	15 min
II. Exploring the Draft RSAP Content	15 min
III. Next Steps for BCDC and Providing Public Comment	5 min

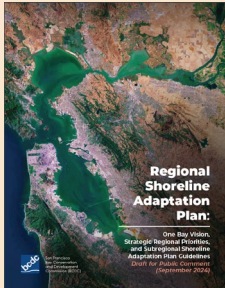
Questions and Answers (Q&A)	45 min

Photo by SF Baykeeper, Cole Robb
Most, and LightHawk.

I. Introducing the Regional Shoreline Adaptation Plan and Roles of Local Governments

Draft Regional Shoreline Adaptation Plan (RSAP) is available for public comment from September 16 – October 18, 2024

The draft RSAP and related materials, including a draft data mapping platform, and 2-page overview are available on the BCDC and Bay Adapt website.



There are several ways to provide public comment:

- Public comment form
- Email a comment letter to publiccomment@bcdc.ca.gov
- Mail a letter to BCDC's office
- Attend the BCDC Public Hearing on October 17, 2024 at 1pm



Access and comment on the draft RSAP, visit:
<https://www.bayadapt.org/regional-shoreline-adaptation-plan/>

What is the Regional Shoreline Adaptation Plan? (RSAP)

A region-wide plan for the Bay shoreline that guides the creation of coordinated, locally-planned sea level rise adaptation actions that work together to meet regional goals. It contains:

- ✓ One Bay Vision
- ✓ Strategic Regional Priorities
- ✓ Guidelines for Subregional Shoreline Adaptation Plans

Regional Shoreline Adaptation Plan:

One Bay Vision,
Strategic Regional Priorities,
and Subregional Shoreline
Adaptation Plan Guidelines
*Draft for Public Comment
(September 2024)*



San Francisco
Bay Conservation
and Development
Commission (BCDC)



OCEAN
PROTECTION
COUNCIL



Coastal
Conservancy



Regional Shoreline
Adaptation Plan
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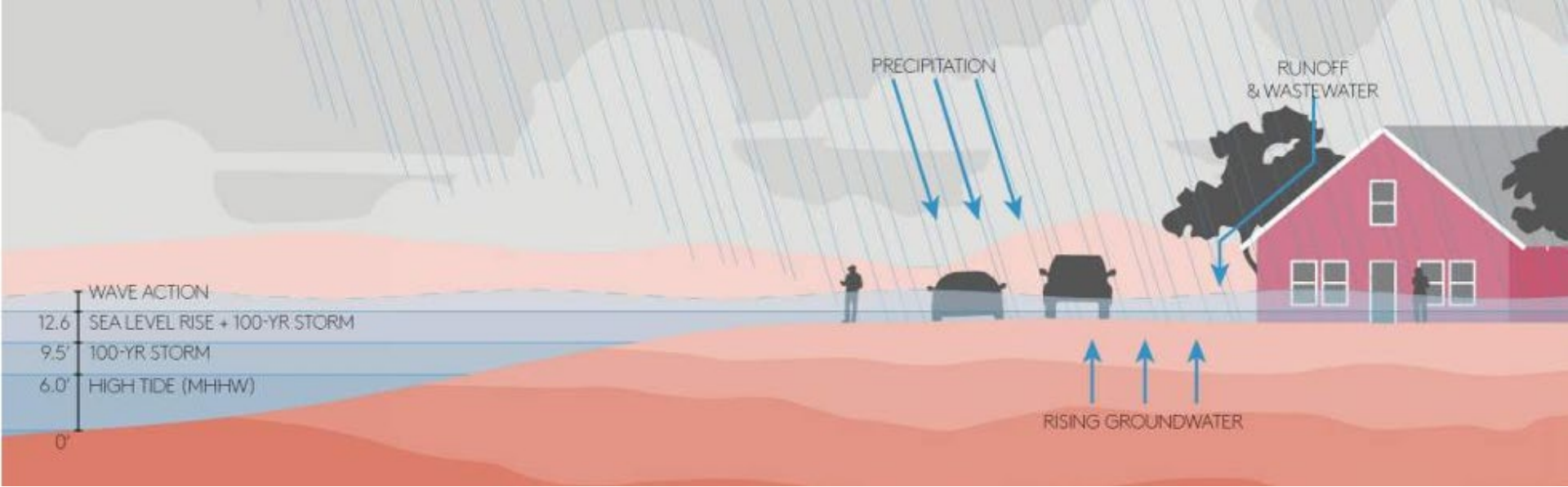


The RSAP builds upon BCDC's ongoing regional planning efforts

- BCDC is a state planning and regulatory agency responsible for protecting and enhancing the San Francisco Bay
- Adopted policies to address climate change in the San Francisco Bay Plan for projects submitted for permits
- Supports sea level rise adaptation planning through the Adapting to Rising Tides (ART) Program
- Implements the Bay Adapt Joint Platform and follows the Bay Adapt Guiding Principles
- Integrates with other regional plans like Plan Bay Area and the Estuary Blueprint

Build upon past and existing research and decisions at the local level





Addressing sea level rise and flood hazards

- Sea level rise is the increase in water levels in the ocean (and Bay) caused by climate change
- 0.8 ft is expected by 2050; 3.1 – 6.6 ft expected by 2100
- Sea level rise worsens existing hazards: high tides, storm surge, and rising groundwater
- The Regional Shoreline Adaptation Plan addresses all these hazards out to 2100 projected levels



What's at risk?*

- **20,000** acres of wetlands habitat
- **5 million** daily vehicle trips
- **60,000** daily rail commuters
- **13,000** existing housing units
- **70,000** new planned housing units
- **104,000** existing jobs
- **85,000** new planned jobs
- **28,000** socially vulnerable residents
- *ART Bay Area, 2020. Risks at 4' SLR

Cost of inaction**

- **\$230 billion** in damages
- **Funding and Investment Framework, 2023, costs include assessed property values and select transportation infrastructure at 4.9' SLR



Regional Shoreline
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Photo by Sergio Ruiz courtesy of California King Tides project.

- **Coordinated** adaptation
- Priority resources to **frontline communities**
- Long-term **health of wetlands**
- **Strategic** implementation
- Common **standards and methods**
- Advance priority **projects** and **funding**
- Track and **measure progress**

Why do we need a regional approach to adaptation planning?



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What are cities and counties required to do to plan for sea level rise adaptation?

- SB 272 (Laird, 2023) mandates that **local governments within BCDC's jurisdiction must complete a Subregional Shoreline Adaptation Plan** by January 2034
- BCDC is charged with developing the guidelines for these Subregional Plans by December 2024 – **Subregional Plan Guidelines are included in the RSAP**
- Local governments will submit completed plans to BCDC **for review and approval**
- Local governments are eligible for **SB1 funding to complete plans** and completed plans unlock implementation dollars

Lots of flexibility to use and build upon what you've already done

Cities and Counties in BCDC's jurisdiction

*Local government not in BCDC's jurisdiction but impacted by near-term coastal flood hazards

Lots of flexibility in how to create your plans with and across jurisdictions

Counties with BCDC Jurisdiction

Cities with BCDC Jurisdiction or impacted by near-term coastal hazards

Alameda

Alameda
Albany
Berkeley
Emeryville
Fremont

Hayward
Newark
Oakland
San Leandro
Union City

Contra Costa

Concord*
El Cerrito*
Hercules
Martinez

Pinole
Pittsburg*
Pleasant Hill*
Richmond

Marin

Belvedere
Corte Madera
Larkspur
Mill Valley
Novato

Ross*
San Rafael
Sausalito
Tiburon

Napa

American Canyon*

Napa*

San Francisco

San Francisco

San Mateo

Belmont
Brisbane
Burlingame
East Palo Alto
Foster City
Menlo Park

Millbrae
Redwood City
San Bruno
San Carlos
San Mateo
South San Francisco

Santa Clara

Milpitas
Mountain View
Palo Alto

San Jose
Santa Clara*
Sunnyvale

Solano

Benicia
Fairfield*

Suisun City
Vallejo

Sonoma

Petaluma

A large flock of birds, likely terns, is captured in flight against a clear blue sky. The birds are scattered across the upper two-thirds of the frame, with some in sharp focus and others appearing as a dense cloud of smaller shapes. Below the sky, a body of water stretches across the lower third, with several small, green, marshy islands or peninsulas protruding from it. The background shows a flat landscape with distant hills under a bright sky.

Webinar on the draft RSAP

Photo: Stanislav Sedov, CC BY 2.0.

II. Exploring the Draft Regional Shoreline Adaptation Plan

Guidelines are designed to drive effective local adaptation

- ✓ Flexible
- ✓ Aligned
- ✓ Right-Sized
- ✓ Building on Existing Efforts
- ✓ Impactful



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Communities have shaped this draft



- **10** Community events
- **5** Advisory Group meetings
- **15+** Subcommittee meetings
- **1** Public workshop
- **5** Local workshops
- **1** Practitioner workshop
- **3** Conferences
- **1** Online survey
- **9-County** local elected official road show

Bottom three photos by Karl Nielson.





Key feedback take-aways

- Emphasis on **habitats and nature-based** solutions
- Consideration for **existing and new development**
- Desire for **flexibility** and working with existing plans
- Encouraging shoreline **solutions based on local context**
- **Simplification and clarity** of what is required and why
- Discussion of **flood hazards and sea level rise scenarios** to require
- **Appreciation for BCDC's inclusion of many stakeholders** and BCDC's effort to provide resources and support



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Three sections of the draft RSAP

SECTION 1: INTRODUCTION

Context for planning: This section lays out the laws, policies, and concepts that provide foundational context for subregional shoreline planning.

SECTION 2: ONE BAY VISION

One Bay Vision: This section sets the desired and forward-thinking outcomes for adaptation in the region. The development of local visions must align with the regional vision.

Strategic Regional Priorities: This section identifies regionally-significant issues with spatial components that must be addressed in local planning. These SRP's contribute to both local and regional adaptation outcomes.



SECTION 3: SUBREGIONAL SHORELINE ADAPTATION PLAN GUIDELINES

Subregional Plan Elements: This section contains plan requirements that local governments within BCDC's jurisdiction must meet when submitting Subregional Plans. The plan requirements are organized into the following elements:

- A Planning Process
- B Existing Conditions
- C Vulnerability Assessment
- D Adaptation Pathways
- E Land Use and Policy Plan
- F Implementation Plan
- G Project List

Minimum Standards: Certain Guidelines require compliance with common standards. The Standards outline the minimums that must be met to comply with the Guidelines. The Minimum Standards provide regional consistency for the following:

-  Coastal Flood Hazards and Sea Level Rise Scenarios
-  Minimum Categories and Assets
-  Equity Assessment
-  Adaptation Strategy Standards

Requirements related to plan development, responsibilities, submission and approval can be found in later sections of Section 3, as well as checklists, resources, and direction for regionally available datasets that should be used to meet the Guidelines.

Figure 1—1. How the RSAP sections guide development of a local jurisdiction's Shoreline Adaptation Plan

REGIONAL ONE BAY VISION

As sea levels rise, the Bay Area's diverse communities come together to transform how we live, work, plan, and adapt along our changing shorelines...

Communities are healthy and vibrant.



Healthy Baylands ecosystems thrive.



Places are designed for changing shorelines.



Critical services are reliable.



The Bay shoreline is accessible to all.



Safe and reliable transportation connects us all.



People and ecosystems are safe from contamination risks.



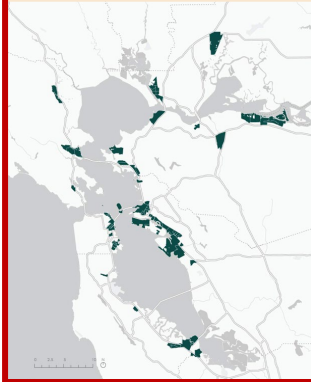
Regional collaboration drives efficient and effective adaptation.



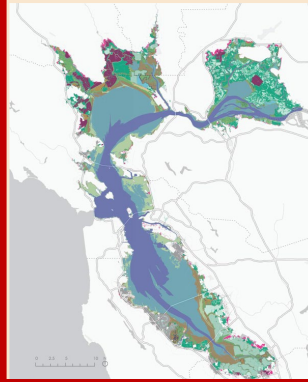
DRAFT

Strategic Regional Priorities to be solved together

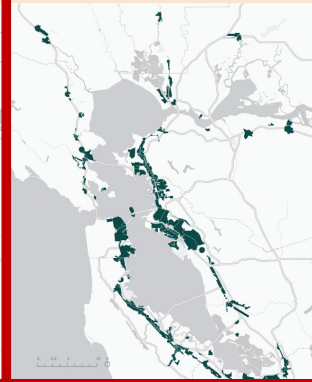
Reduced
involuntary
displacement
risk



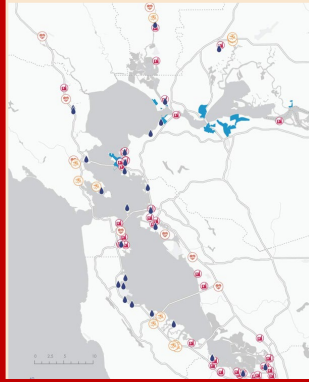
Complete and
connected
ecosystems



Safe and strategic
growth and
density



Reliable critical
and emergency
services



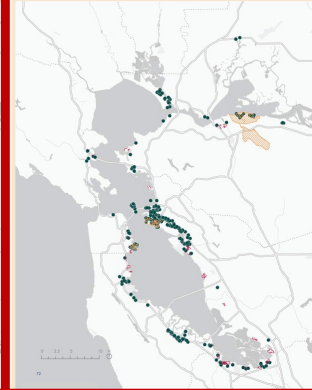
Connected
regional
shoreline
access



Regional
movement of
people and
goods



Reduced
contamination in
EJ communities



Cross-
jurisdictional
flood
risk reduction



Subregional Shoreline Adaptation Plan Guidelines

Plan Element Requirements

- A** Planning Process
- B** Existing Conditions
- C** Vulnerability Assessment
- D** Adaptation Strategies and Pathways
- E** Land Use and Policy Plan
- F** Project Implementation and Funding
- G** Project List

Minimum Standards

-  Coastal Flood Hazards and Sea Level Rise Scenarios
-  Minimum Categories and Assets
-  Equity Assessment
-  Adaptation Strategy Standards

*Provides a cheat sheet for
how to do good planning*

Subregional Shoreline Adaptation Plan Guidelines

Plan Element Requirements

- A** Planning Process ----- ✓ Describe your plan partners, planning area, and equitable community engagement strategy
- B** Existing Conditions ----- ✓ Describe existing plans, policies, physical and social conditions that create the context for your plan
- C** Vulnerability Assessment ----- ✓ Assess the vulnerability of critical assets and populations to coastal flood hazards
- D** Adaptation Strategies and Pathways ----- ✓ Identify and evaluate adaptation alternatives and select a preferred approach
- E** Land Use and Policy Plan ----- ✓ Summarize necessary land use changes and new or adjusted policies to achieve adaptation pathways
- F** Project Implementation and Funding ----- ✓ Describe implementation including responsible parties, timeline, costs, and potential funding sources.
- G** Project List ----- ✓ Provide a list of priority projects

Subregional Shoreline Adaptation Plan Guidelines

Minimum Standards



Coastal Flood Hazards and
Sea Level Rise Scenarios
Standards

- ✓ Sea level rise inundation
- ✓ 100-year storm surge
- ✓ Shallow and emerging groundwater
- ✓ 0.8 ft, 3.1 ft, 4.9 ft, and 6.6 ft scenarios



Minimum Categories and
Assets Standards

- ✓ Required assets (certain data available by BCDC)



Equity Assessment Standards

- ✓ Equity-focused questions across the plan elements
- ✓ Maximize benefits of water-dependent shoreline uses and Baylands habitats



Adaptation Strategy Standards

- ✓ Improve community health, economic development, infrastructure and housing needs
- ✓ Create pathways to respond to changing flood risks over time

Adaptation Strategy Standards

Represent key outcomes of while allowing flexibility for how local strategies achieve them.

- Refers to standards that apply only when a local jurisdiction contains that Strategic Regional Priority

Maximize benefits of water-dependent shoreline uses and Baylands habitats.

1. Improve public access and connection to the shoreline.
- 2. Improve connected regional shoreline access.
3. Prioritize water-dependent uses along the shoreline.
4. Improve Baylands habitats and facilitate their long-term survival.
- 5. Ensure complete and connected ecosystems.

Improve community health, economic development, infrastructure, and housing needs.

6. Reduce flood risk in areas with existing development.
- 7. Include actions to mitigate involuntary displacement risk.
- 8. Promote safe, sustainable and strategic growth and density.
- 9. Maintain reliable critical and emergency services.
- 10. Maintain regional movement of people and goods.
- 11. Reduce contamination risks in Environmental Justice communities.
12. Use nature-based adaptation where feasible.
13. Appropriately utilize Bay fill for shoreline protection.
14. Integrate multiple benefits into adaptation.

Create pathways to respond to changing flood risks over time.

15. Preserve natural, undeveloped, and open space.
16. Incorporate climate-responsive standards and codes for adaptive design.
17. Plan for changes in land use, removal of assets, and/or equitable relocation.
18. Identify actions necessary to enable future adaptation decisions, if currently not available.
- 19. Develop and maintain cross-jurisdictional flood risk reduction.
20. Evaluate and minimize consequences of failure.

Process for local governments and BCDC to complete a Subregional Shoreline Adaptation Plan



SUBREGIONAL PLAN DEVELOPMENT PROCESS

PLAN REVIEW AND APPROVAL PROCESS

LOCAL GOVERNMENT RESPONSIBILITIES

NOTICE OF
INTENT

NOTICE OF
PLAN
INITIATION

LOCAL
APPROVAL

PLAN SUBMITTAL
AND REQUEST
FOR APPROVAL

CONSULTATION
MEETINGS BETWEEN
LOCAL STAFF AND BCDC

CONFIRM
COMPLETION
OF
SUBMITTAL

NOTICE OF
PUBLIC
HEARING

VOTE TO
APPROVE
PLAN

BCDC RESPONSIBILITIES

- Lots of flexibility in how to create plans with and across jurisdictions
- Build upon past and existing research and decisions at the local and regional level
- Provides a cheat sheet for how to do good planning



Building upon existing plans and efforts



What we can achieve together

- Prioritizing equitable processes and resources to **frontline and Environmental Justice communities**
- Reducing flood risk to **homes, jobs, and neighborhoods**
- Ensuring flood safety for **new development**
- Continuing to enjoy **recreation areas, healthy Bay habitats, and access to nature**
- Continuing to rely on **services, movement of goods and people**, and other systems
- Prioritizing **cleanup of contaminated sites**, especially in areas of groundwater rise
- Creating **collaborative governance** to respond to changing risks

Photo by SF Baykeeper, Robb Most, and LightHawk..

Webinar on the draft RSAP

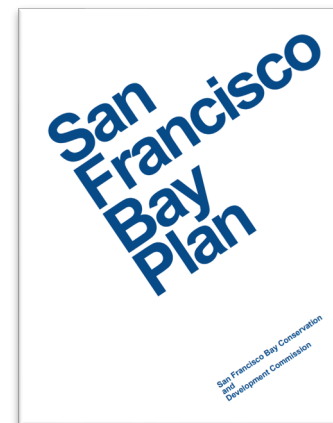
Photo by TJ Gehling licensed under CC
BY-NC-ND 2.0.

III. Next Steps for BCDC and Providing Public Comment on the draft



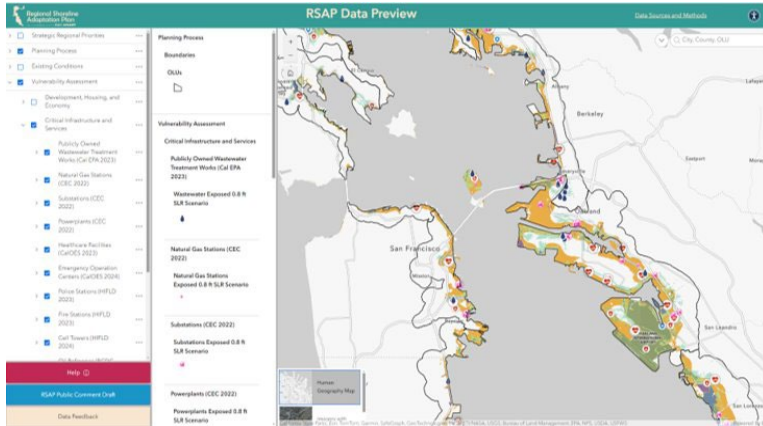
Adopting the RSAP as a Bay Plan amendment

- Includes adopting the Regional Shoreline Adaptation Plan, by reference, as part of the Bay Plan
- Updating BCDC Climate Change Findings and Policies to reflect new best available science and information
- This does **not change or alter** BCDC's permitting authority
- Adjustments to:
 - Policy 6. Establishes the Regional Shoreline Adaptation Plan into the Bay Plan, directs BCDC to provide ongoing technical and policy support, and creates goals for ongoing evolution of the agency
 - Policy 7. Allows BCDC to use the Regional Shoreline Adaptation Plan and Subregional Shoreline Adaptation Plans in an advisory capacity when considering benefits of projects
- Changes can be found in BCDC staff report and preliminary recommendation on BCDC and the Bay Adapt website here: <https://www.bayadapt.org/regional-shoreline-adaptation-plan/>



BCDC Resources in Development for Plan Support

Mapping Platform



Draft data viewer is currently available to provide regionally-accessible data. The Mapping Platform is scheduled for release February 2025 and will include:

- ✓ Maps
- ✓ Downloadable datasets
- ✓ Jurisdiction Reports

Local Assistance Program



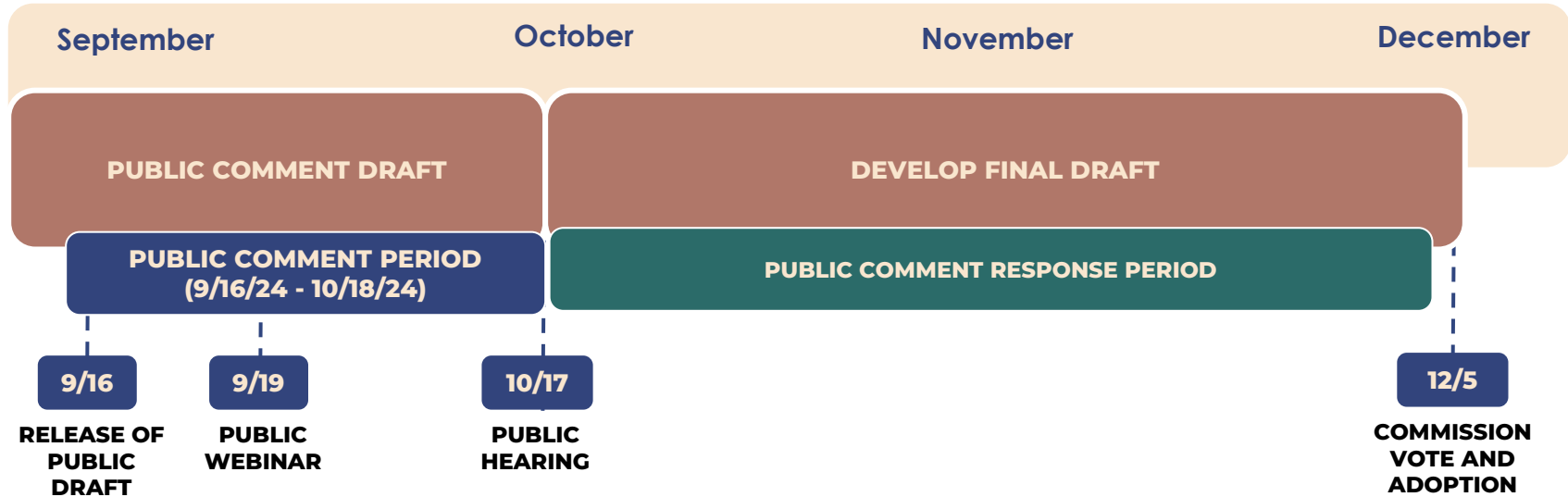
Photo by Karl Nielson.

BCDC provide support for cities, counties, and communities. Local assistance may include:

- ✓ Templates for plan submittals
- ✓ Shoreline leadership academies
- ✓ Resources to support adaptation

Regional Shoreline Adaptation Plan Timeline

WE ARE HERE



Milestones

Where to dive in for your review?

Looking for a general overview?

- ✓ Read the **Executive Summary** (pages 2-5)

Want to see the requirements for local plans?

See **Section 3. Subregional Shoreline Adaptation Plan Guidelines**

- ✓ Plan Elements (pg. 80)
- ✓ Minimum Standards (pg.126)
- ✓ Complete Plan Submittal Checklist (pg. 153)
- ✓ Plan Development, Submission, and Approval (pg. 164)

How and where equity is integrated?

- ✓ Benefits of Adaptation Beyond Flood Risk Reduction (pg. 32)
- ✓ Community Health and Well-being Topic Area (pg. 46)
- ✓ Equity Assessment Standard (pg. 138)
- ✓ Equity in the RSAP (pg. 181)

How does this plan support healthy Bay habitats?

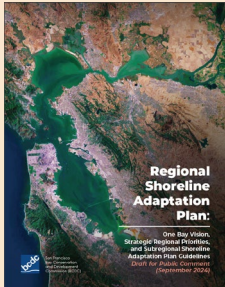
- ✓ Benefits of Adaptation Beyond Flood Risk Reduction (pg. 32)
- ✓ Ecosystem Health and Resilience Topic Area (pg. 50)
- ✓ Adaptation Strategy Standards (pg. 142)

How does this plan address housing and development?

- ✓ Benefits of Adaptation Beyond Flood Risk Reduction (pg. 32)
- ✓ Development, Housing, and Land Use Topic Area (pg. 54)
- ✓ Adaptation Strategy Standards (pg. 142)

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Funding and Support Are Available Today!

Senate Bill 1 Grant Program

- ✓ Funding for local and regional governments to develop SLR adaptation plans and projects
- ✓ Applications are accepted on a quarterly rolling basis
- ✓ Next deadline is October 4
- ✓ A technical assistance program is available to help Environmental Justice communities, Tribal communities, and small and rural communities access funds

Technical Assistance for the Program

Provide a range of services:

- ✓ Understanding grant requirements
- ✓ Grant writing review
- ✓ Support budget development
- ✓ Assessing stakeholders
- ✓ And more!

If you have any questions, please send an inquiry to OPCSB1TA@coastal-quest.org.



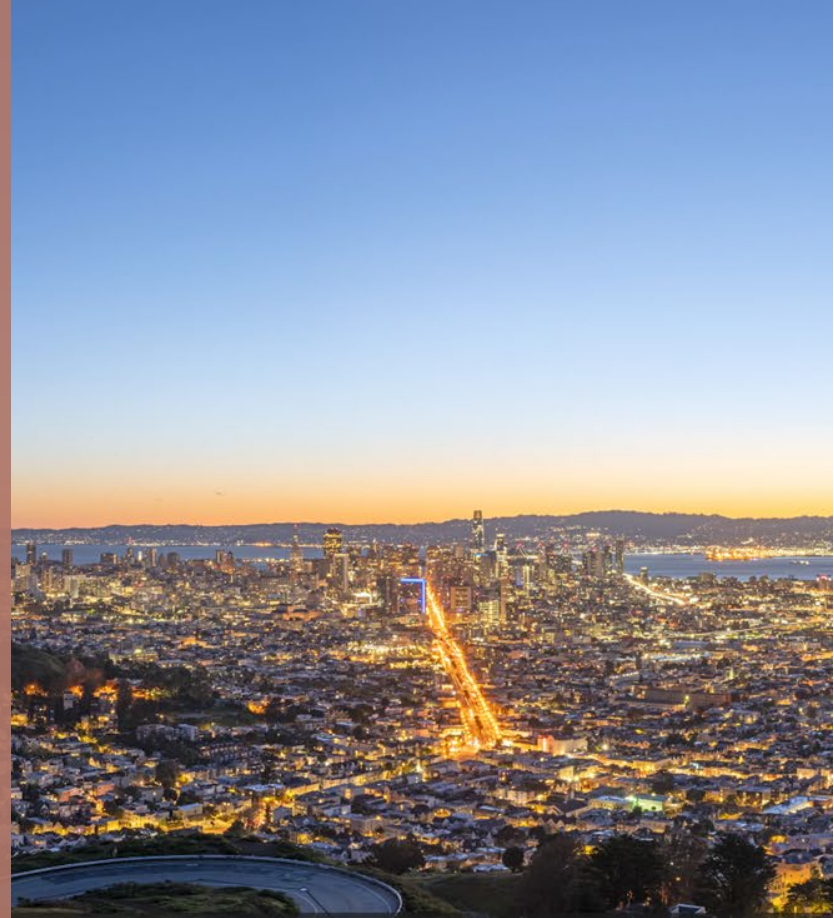
Apply for technical assistance for the SB1 Grant Program by scanning the QR code or following this link:
<https://opc.ca.gov/sb-1-funding/>

THANK YOU!

Jessica Fain
Planning Director
Jessica.fain@bcdca.gov

Dana Brechwald
Assistant Planning Director for Climate Adaptation
Dana.brechwald@bcdca.gov

Jaclyn Perrin-Martinez
Senior Climate Adaptation Planner
Jaclyn.perrin-martinez@bcdca.gov



Questions and Answers (Q&A) Session

**Please raise your hand to ask a question or add a question
in the Q&A Chat Feature.**