Workbook 1: **Build Your** Adaptation Roadmap

Worksheets 1A-1J

Outcomes include: Strengths and Opportunities Challenges to Address Your Roadmap: Sections to Use in the Adaptation Roadmap

Tracking Progress

Name(s): Title/Dept./other Identifier: Jurisdiction/Organization: Date Worked On: Worksheets Worked On: Name(s): Title/Dept./other Identifier: Jurisdiction/Organization: Date Worked On: Worksheets Worked On: Name(s): Title/Dept./other Identifier: Jurisdiction/Organization: Date Worked On: Worksheets Worked On:

Workhook 1

1.1 Assess Your What and Why (Worksheet 1A):

1.2 Assess Your Issues and Scale (Worksheets 1B-1C):

1.3 Assess Your Capacities and Resources (Worksheet 1D-1E):

> **BUILD YOUR ROADMAP** (Worksheet 1F-1J):

Print Your Roadmap

INSTRUCTIONS

Workbook 1 and Outcomes

This workbook is designed to accompany Chapter 1: Build Your Adaptation Roadmap. This resource will help you organize and pick up the pieces of existing sea level rise vulnerability and related climate adaptation efforts to understand how to best use the resources in the Adaptation Roadmap. The worksheets within provide fillable PDF spaces to list and record your responses.

Strengths and Opportunities

Chapter 1 and Workbook 1 differ from chapters and workbooks 2-6 in that they are meant to help you understand where you are starting from in an adaptation planning effort and what resources to use within Adaptation Roadmap that make the most sense for you and your community. In this workbook, the notes and comments you make in worksheets 1A-1E are presented back to you to organize your comments into:

- Strengths and Opportunities (Worksheet 1F)
- Challenges to Address (Worksheet 1G)

These two pages (worksheets 1F-1G) can be shared with others as you begin formulating how to initiate an adaptation effort. These should be considered as starting points and initial ways to organize key foundational information that can be built upon and integrated into your adaptation effort moving forward.

Your Adaptation Roadmap: Using the Decision Tree

A key outcome of this Workbook 1 is helping you understand what sections of the Adaptation Roadmap to review. Use worksheets 1H-1I to review a series of questions that help you understand what information you already have and what sections of the Adaptation Roadmap may be useful to help you achieve your outcomes. Your responses are presented back to you in a way that provides a checklist of sections to review:

Your Adaptation Roadmap (Worksheet 1J)

Supplemental Pages

The supplemental pages provide extra space to list additional notes, as needed.



Worksheet 1A: Build Your Roadmap

1.1
Assess Your
What and Why

What brings you here? What outcomes (or goals) are you interested in?

Check the boxes and use the space to articulate what you'd like to get out this adaptation effort. Consider this a starting point for your story. Tip: You can have multiple outcomes, try to be as clear as possible, and you can change/adjust these as you move through this work.

1.1.1: I want to...

Planning

Education/Awareness

Capacity Building

Project

Learn about adaptation

Unsure

What **motivations and opportunities** do you have going for you?

Click the description that best matches who you are or what perspective you best represent. List of the main motivations for adaptation that come to mind and other relevant opportunities that will add support as you create your own Adaptation Roadmap. Tip: Think of all the positives.

1.1.2: I work for or 1.1.3: The good news... represent...

If other, please specify:

What are you most concerned about? What might be key barriers?

Click the circle that best matches how you currently feel. List the key challenges or barriers that come to mind and be as locally specific as possible. Consider barriers or challenges that this adaptation effort can seek to address. Tip: Think of challenges/barriers that you can potentially change.

I'm feeling... 1.1.4: The biggest challenges include...

Overwhelmed and not sure where to start

Ready to explore how to take small steps in adaptation

Excited to think holistically about adaptation



Worksheet 1B: Build Your Roadmap

1.2
Assess Your
Issues and Scale

What studies, reports, or other efforts are you building upon?

Use the space to list the name(s) and date(s) of foundational studies or reports that are the building blocks of this work. The check boxes provide ideas for types of studies, but add as many as apply. Include who led or was involved, scale, and other important context details.

1.2.1: We can build upon...

County Vulnerability Assessment

City/Local Vulnerability Assessment

General Plan Update

Local Hazard Mitigation Plan Update

Other Studies/Reports/Efforts

1.2.1: It would be great if we could integrate...

County Vulnerability Assessment

City/Local Vulnerability Assessment

General Plan Update

Local Hazard Mitigation Plan Update

Other Studies/Reports/Efforts

What other issues should be addressed together in this work?

Use the space to list other issues that should be integrated into this work. The check boxes provide ideas for types of connected issues, but add as many as apply in the space where appropriate. Include related plans, studies, or areas of work and additional context details.

1.2.2: Related issues we can likely include...

Housing

Transportation

Public Health

Safety / Emergency

Environmental Health

Economic Health

1.2.2: Related issues we'd like to be able to include...

Hazardous Materials

Food Security

Education

Other Climate Hazards



Worksheet 1C: Build Your Roadmap

1.2
Assess Your
Scale and Issues

What data are you using in your sea level rise projections?

Use the space to list the details of the flooding sources and data used in the foundational studies. Note if the studies identified in worksheet 1B used the same or different foundational data, and if the data reflects the most up-to-date science.

1.2.3 Our work is based on the following scientific data:

Sea Level Rise Projections

Storm Surge

Fluvial/Riverine Flooding

Shallow Groundwater Rise

Shoreline Erosion

Subsidence

Other, specify:

1.2.3 Across our work, our data is...

1.2.3 Do we need to review the state of the science...

Definitely Likely Likely not No idea consistent and consistent or up-to-date up-to-date

What scale(s) are you considering working at?

Check the boxes and use the space to list articulate your approach to scale. Start with thinking about the biggest scale your work is likely to address, as well as the smallest. Tip: You will often have multiple scales and articulating them will be helpful.

1.2.4 Our scale includes...

County-wide

City-wide

Neighborhood

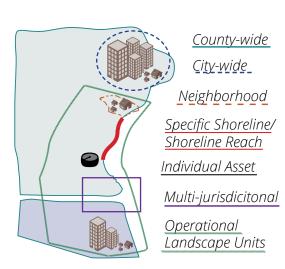
Specific Shoreline

Individual Asset

Cross-jurisdictional

Other, specify:

Unsure





Worksheet 1D: Build Your Roadmap

1.3
Assess Your
Capacity and Resources

What people or expertise do you likely already have or need?

Based on your answers and responses to all the sections in the previous worksheets 1A-1C (i.e. motivations, foundational studies, connected issues, and scale), consider people you know that are either in support of this work, and people (or areas of expertise) that would likely be needed to contribute time, expertise, and resources. Consider existing capacity and future needs.

1.3.1: Is there government capacity...

Yes, government staff available and ready to participate

Mostly, but still need resources, training, or something else

No, or not sure

1.3.2: Is there community capacity...

Yes, community groups available and ready to participate meaningfully

Some capacity, but still need resources, training, or something else

No, or not sure

1.3.3: Is there stakeholder capacity and/or support...

Yes, there is broad support for this effort to go forward

Some support, but additional local support is likely needed

No, or not sure

People or expertise we likely have...

Name, Title	Area of Expertise	Organization/Department	Contact Information

Click here if you need more space, and list additional names in supplemental page 1.

People or expertise we likely need...

Name, Title	Area of Expertise	Organization/Department	Contact Information



Worksheet 1E:Build Your Roadmap

1.3
Assess Your
Capacity and Resources

What funding sources are you considering for this work?

Check the boxes and use the space to list the name(s) and date(s) of funding or financing sources you have or need. Use the space to articulate the details of these sources, as well as what the funding includes (e.g. planning, outreach, consultant support, implementation, etc.).

	1.3.4: Funding options we already have
Grant	1.5.4. I unumg options we already have
Local Bonds	
Property Taxes	
Fees	
General Fund	
Other, specify:	
Unsure	
	1.3.4: Funding options we are seeking or need
Grant	
Local Bonds	
Property Taxes	
Fees	
General Fund	
Other, specify:	
Unsure	
Extra space for additional notes	

on any sections

if needed.

Worksheet 1F:

Build Your Roadmap

Strengths and Opportunities

You aren't starting from scratch. You have a lot of opportunities! This page has gathered your responses so that you can see all of your strengths in front of you.

Our Adaptation Roadmap Outcomes:

From the perspective of

Planning Education/Awareness Capacity Building Project Learn about Adaptation Unsure

Connected Issues Science Used **Key Motivations Existing Studies**

Scale

County-wide scale

City-wide scale Neighborhood Specific Shoreline

Individual scale Asset scale

Cross-jurisdictional scale

Unsure

Supporting Partners

Name, Title

Area of Expertise

Funding Opportunities

Worksheet 1G:

Build Your Roadmap

Challenges to Address

Challenges and barriers can often be re-framed. This page has gathered your

responses so you can ev	valuate how to use the	e Adaptation Roadma	ap to build resilience.
Key Concerns or Barriers		Re-Frame Concerns a	s Opportunities
Plans/Data to Integrate	Issues to Connect To) We need to	review the state of the science.
		If necessary, nex	xt steps include
Funding Needs	People and/or Areas Name, Title	Area of Expertise	Building these relationships will likely require

Additional Contacts in Supplemental pages

Worksheet 1H:

Build Your Roadmap

Now that you've gathered your strengths, opportunities, and challenges to address, review the questions below in worksheets 1G-1H to explore what sections of the Adaptation Roadmap may be most useful for your effort. While we provide some recommendations on the right, every place will face different challenges, so use this resource in whatever way you see fit. Worksheet 1I will then provide a list of sections for you to review.

*We suggest reviewing all the questions below. However, based on the outcomes you identified earlier, we recommend specific sections to review that may be especially applicable for that particular outcome. If you selected Learn or are Unsure, review all the questions and check the boxes that reflect what you're looking to learn about.



Planning Awareness Building Project
(PL*) (EA*) (CB*) (PR*)

Education/ Capacity

Are you looking for guidance on...

Why is sea level rise adaptation so challenging and how it can also be an opportunity ? See the Introduction: i. Laying the Landscape of Adaptation.	•		•	
Why should adaptation be collaborative, equitable, integrative, and flexible? See the Introduction: ii. Embedding Four Foundational Pillars into the Adaptation Roadmap.		•	•	•
Who should be managing the effort? See 2.1 Manage the Process. Guidance on Building Your Core Team, Key Partnerships, Role of Consultants, and Roles and Responsibilities.	•	•	•	•
Who should be involved? See 2.2 Input into the Process. Guidance on Stakeholder Groups to Consider, Audiences to Involve and Why, Identifying and Mapping Populations, and Assessing Relationships for Participation.	•	•	•	•
How should participation and decision-making be structured? See 2.3 Participation and Decision Making. Guidance on Participatory Engagement, Types of Participation Structures, Decision-Making Process, and Types of Networks and Agreements.	•	• • • • • • • •		•
How can you share key messaging and communications? See 2.4 Effective Communications Techniques. Guidance on Communications Approach, Connecting to Values, Making it Relatable, and Framing the Message and Delivery		•	•	
What plans and processes can be aligned? See 3.1 Align Local and Regional Plans and Processes. Guidance on reviewing your Vulnerability Assessment, Local Plan Alignment, and Regional or Neighboring Alignment.				
How to engage in conversations about local concerns and values with communities? See 3.2 Integrate Community Values. <i>Guidance on Building Upon Community Initiatives, Connecting to Local Knowledge, and Creating Shared Stories of Place.</i>			•	
How to explore nature-based opportunities and physical condition considerations? See 3.3 Incorporate Environmental and Physical Characteristics. <i>Guidance on Nature-Based Opportunities, Projects and Infrastructure, and Shoreline Planning Units.</i>	•	•	•	•

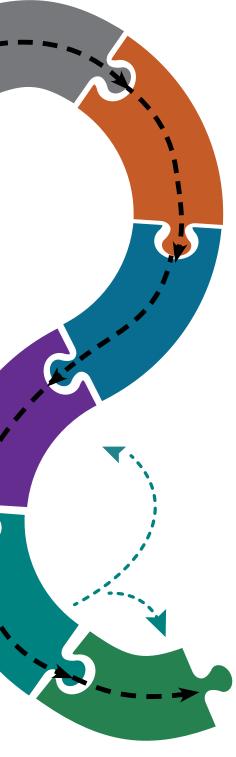
Worksheet 11:Build Your Roadmap

*We suggest reviewing all the questions below. However, based on the outcomes *you* identified earlier, we recommend specific sections to review that may be especially applicable for that particular outcome. If you selected Learn or are Unsure, review all the questions and check the boxes that reflect what you're looking to learn about.

re you looking for guidance on	↓ PL	↓ EA	↓ CB	↓ PR
How to talk about adaptation pathways? See 3.4 Frame Discussion for Uncertain Futures Using Adaptation Pathways. Guidance on Conceptual Framing of Adaptation Pathways, Thresholds, Triggers, and Creating Planning Horizons.				
How to discuss risk and determine key problems to respond to? See 4.1 Define the Problem. Guidance on Risk Tolerance and Perception, Current Decision Context, and Shared Problems to Respond To.	•	•	•	
How to create the vision and guiding principles? See 4.2 Determine What Success Means. Guidance on creating a Vision, Guiding Principles, and Evaluation Criteria.	•		•	•
How to create future scenarios with communities and stakeholders? See 4.3 Explore Future Scenarios. Guidance on using Scenarios as a Pathways Tool, Strategic Approaches, Scenario Planning Parameters, and Conducting and Summarizing Scenarios.	•		•	•
How to talk about and advance potential adaptation outcomes? See 4.4 Outcomes and Expectations. Guidance on Raising Difficult Topics, Future Decision Context, and Advancing Scenarios.	•	•	•	•
Where to start in terms of exploring adaptation actions and strategies? See 5.1 Explore Actions to Meet Envisioned Futures. Guidance on Actions and Strategies, Adaptation Action Types, and using the ART Adaptation Catalog.	•	•	•	•
How to bundle actions to create cohesive strategies? See 5.2 Bundled Strategies That Work Together. Guidance on Starting with the End in Mind, Linking Plans and Programs, Connecting to People, and Paying for Adaptation.	•			•
How to build adaptation pathways that incorporate change over time? See 5.3 Phasing and Sequencing Strategies Over Time. Guidance on Action Lifespan and Time Horizons, Sequencing and Lead Times, Applying Triggers and Decision Points, and Visualizing Adaptation Pathways.	•		•	•
How to evaluate strategies and make decisions? See 5.4 Evaluation Tradeoffs and Making Decisions. Guidance on Sharing Results and Applying Evaluation Criteria, Additional Evaluation Approaches, and Making Decisions.				•
How to advance adaptation through appropriate avenues? See 6.1 Link Strategies to Outcomes. Guidance on Creating (Or Connecting To) Plans, Connecting Processes and Projects, and Connecting People	•			•
How to advance low-hanging, low-regret strategies for the short-term? See 6.2 Advance Near Term Strategies. Guidance on developing an Implementation Work Plan, Order of Implementation, and Sustaining Momentum.	•		•	•
How to track, adapt, and be prepared for change over time? See 6.3 Prepare for Change Over Time. Guidance on Monitoring and Tracking, Reacting to Changes, and Love Letter to the Future.	•		• • • • • • •	•

YOUR ADAPTATION ROADMAP

Worksheet 1J: Use Sections Below to Help You Reach Your Outcomes



i. Laying the Landscape of Adaptation	Page 11
ii. Foudational Pillars of the Adaptation Roadmap	Page 16
Chapter 2. Center People in Decision-Making	
2.1 Managing the Adaptation Process	Page 46
2.2 Input Into the Adaptation Process	Page 52
2.3 Participation and Decision-Making	Page 60
2.4 Effective Communications Techniques	Page 69
Chapter 3. Set Local Context and Sense of Place	3
3.1 Align Local and Regional Plans and Processes	Page 82
3.2 Integrate Community Values	Page 91
3.3 Incorporate Environmental and Physical Characteristics	Page 97
3.4 Frame Discussions for Uncertain Futures Using	Page 104
Adaptation Pathways	rage 104
Chapter 4. Shape a Shared Vision of the Future	
4.1 Define the Problem	Page 118
4.2 Determine What Success Means	Page 123
4.3 Explore Future Scenarios	Page 130
4.4 Discuss Outcomes and Expectations	Page 139
Chapter 5. Bring Together Shared Solutions	
5.1 Explore Actions to Meet Envisioned Futures	Page 150
5.2 Bundling Strategies Together	Page 155
5.3 Phasing and Sequencing Strategies Over Time	Page 164
5.4 Evaluating Tradeoffs and Making Decisions	Page 175
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Chapter 6. Pathways Approach to Implementation	
6.1 Link Strategies to Actionable Outcomes	Page 188
6.2 Advance Near-Term Strategies	Page 192
6.3 Prepare for Changes Over Time	Page 107

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SUPPLEMENTAL PAGES

Workbook 1 and Outcomes

Extra space for additional notes as needed.

Supplemental Page #

People or expertise we likely have...

Name, Title	Area of Expertise	Organization/Department	Contact Information

People or expertise we likely need...

Name, Title	Area of Expertise	Organization/Department	Contact Information

Supplemental Page #

Extra space for additional notes as needed.

Workbook 1 is a complimentary resource to the Adaptation Roadmap: A Practitioner's Guide to Plan and Implement a Collaborative, Equitable, Integrative, and Flexible Approach to Sea Level Rise Adaptation. These resources were created by the Adapting to Rising Tides Program at the San Francisco Bay Conservation and Development Commission. March 2022.

This workbook has been designed to meet Web Content Accessibility Guidelines (WCAG) Level AA Requirements to the extent feasible. We acknowledge parts of this document may still require additional assistance. Please contact us at BCDC at:

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