

# Adaptation Roadmap

## Workbook 4: Shape a Shared Vision of the Future

Worksheets 4A-4N

Outcomes include:  
Shared Vision and Guiding Principles  
Future Scenarios to Explore and Advance

### *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:	

### *Workbook 4*

4.1 Define the Problem  
(Worksheets 4A-4C):

4.2 Determine What Success Means  
(Worksheets 4D-4E):

4.3 Explore Future Scenarios  
(Worksheets 4F-4I):

4.4 Discuss Outcomes and Expectations  
(Worksheets 4J-4N):

**SCENARIOS TO ADVANCE**  
(Worksheets 4G-4N)

*Print Your Shared Vision and Future  
Scenarios to Explore and Advance*

## INSTRUCTIONS

### Workbook 4 and Outcomes

This workbook is designed to accompany Chapter 4: Shape a Shared Vision of the Future to build on the information gathered in Chapter 3 and look ahead at what kind of solutions can be created to address the key challenges communities face and meet a shared vision for the future. The scenarios developed in this chapter will then be used to inform specific adaptation actions and strategies in Chapter 5 to meet the vision. The worksheets within provide fillable PDF spaces to list and record your responses.

### Vision and Guiding Principles

**Section 4.1 Define the Problem** provides three subsections to organize information from Chapter 3 into a shared understanding of risks and the problem. The outcome will result in a series of worksheets:

- **Notes on Understanding and Defining the Key Issues (Worksheets 4A-4C)**

These outcomes are directly used in **Section 4.2 Determine What Success Means**, where three subsections use the key issues identified to articulate a shared vision, guiding principles, and evaluation criteria. The outcomes will result in a series of worksheets:

- **Shared Vision, Guiding Principles, and Criteria (Worksheets 4D-4E)**

### Future Scenarios to Explore and Advance

**Section 4.3 Explore Future Scenarios** provides four subsections to set-up and conduct scenario planning exercises to explore how to address the key challenges identified.

Additional instructions for scenario planning can be found on page 9 of this Workbook.

**Section 4.4 Outcomes and Expectations** provides four subsections to support how to discuss difficult topics from the scenario planning exercise, as well as how to review the results and choose scenarios, or hybrid scenarios, to advance for further detail in Chapter 5. The outcomes will result in a series of worksheets:

- **Setting Up Scenario Planning Exercise (Worksheet 4F)**
- **Exploring Future Scenarios (Worksheets 4G-4I)**
- **Notes and Comments on Scenarios (Worksheet 4J)**
- **Scenarios to Be Advanced (Worksheets 4K-4N)**



See Adaptation Roadmap guidance on pages 118-122.

# Adaptation Roadmap

## Worksheet 4A: Risk Tolerance and Perception

### 4.1 Define the Problem

#### Community and Stakeholder Notes on Risk Tolerance and Perception

Use the space to note how risk has been defined and discussed throughout your adaptation effort. In Part I below, check the boxes to reflect how risk is being defined, and use the space to elaborate with details as needed. In Parts II and III, use the space provided to list notes from dialogue and conversations with communities and stakeholders. These conversations should build upon the local context information gathered in **Chapter 3** and **Workbook 3**. See the resources pages for **Chapter 2** and **Chapter 4** in the Adaptation Roadmap for additional resources on risk communication guides. Additional space for notes is available in the Supplementary pages.

#### 4.1.1: Part I. How Is Risk Defined?

*Climate Projections*

*Direct and/or Indirect Impacts*

*Other, specify:*

*Other, specify:*

*Other, specify:*

#### 4.1.1: Part II. Risk Perception: How Do Communities and Stakeholders Feel About Risks?

#### 4.1.1: Part III. Risk Tolerance: What Kinds of Risk Are Acceptable, and What Are Not?



See Adaptation Roadmap guidance on pages 118-122.

# Adaptation Roadmap

## Worksheet 4B: Current Decision Context

### 4.1 Define the Problem

#### Understanding the Conditions that Make Decisions Possible (or Not)

Use the space to note community and stakeholder conversations on the current decision context. This should build upon previous discussions, while also focusing specifically on how these three considerations of values, rules, and knowledge may enable or discourage the types of decisions that may need to be made now or in the future. Include what parts of the decision context may be an opportunity to advance adaptation, or part of the problem that needs to be addressed in adaptation.

#### Guiding Questions

#### 4.1.2: What defines our current decision context?

<b>Values</b>	What shared values do stakeholders hold that may be negatively affected by sea level rise impacts?	
<b>Rules</b>	What are the institutional (or social) rules or policies that may be barriers or limits to future actions?	
<b>Knowledge</b>	What information do we have available (or lack) that will help us better understand the problem?	

**Notes on Decision Context conversation:**



See Adaptation Roadmap guidance on pages 118-122.

# Adaptation Roadmap

## Worksheet 4C: Problem Statements

### 4.1 Define the Problem

#### Define the Key Issues Using Problem Statements

Based on the information collected throughout the Adaptation Roadmap thus far in **Chapter 3** and **Workbook 3**, and in Worksheets 4A-4B, co-define the key issues *with* communities and stakeholders. Discuss if issues should be prioritized, or if they are equally important. In each section, add a name for the issue, description of what the issue is, if it pertains to the entire planning area of specific shoreline, and what information was used to identify this issue (e.g. vulnerability assessment, community conversation, etc.).

#### 4.1.3: Issue:

*Entire Planning Area*

*Specific Shoreline*

*Other*

#### 4.1.3: Issue:

*Entire Planning Area*

*Specific Shoreline*

*Other*

#### 4.1.3: Issue:

*Entire Planning Area*

*Specific Shoreline*

*Other*

#### 4.1.3: Issue:

*Entire Planning Area*

*Specific Shoreline*

*Other*

#### 4.1.3: Issue :

*Entire Planning Area*

*Specific Shoreline*

*Other*

*Duplicate this PDF page to add additional key issues.*



See Adaptation Roadmap guidance on pages 123-129.

# Adaptation Roadmap

## Worksheet 4D: Vision and Guiding Principles

## 4.2 What Success Means

### Create the Vision and Principles That Guide you Forward

Use the space to list your vision and guiding principles for your community. This should be developed *with* communities and stakeholders, and the outcomes of this section should reflect the decision-making process identified earlier in **Chapter 2** and **Workbook 2** (specifically **Worksheet 2G**). The Vision and Guiding Principles may have to be re-visited as you move through the rest of **Chapter 4** and into **Chapter 5**.

#### 4.2.1: Our Vision is...

#### 4.2.2: Guiding Principles that drive us...

Title

Description



See Adaptation Roadmap guidance on pages 123-129.

# Adaptation Roadmap

## Worksheet 4E: Evaluation Criteria

## 4.2 What Success Means

### Explore Criteria for Success

Use the space to explore what types of criteria should be used to define and measure success, based on the Vision and Guiding Principles established in **Worksheet 4D**. These criteria will then be reviewed again and applied to adaptation actions and strategies in Chapter 5 to evaluate how well the adaptation options meet the community and stakeholder vision. These should add greater detail and serve as your metric of success. Use the boxes to check which categories you are considering, and describe which criteria stand out to your communities and stakeholders.

### 4.2.3: Our Evaluation Criteria includes...

*Feasibility*

*Social Benefits*

*Economic Benefits*

*Environmental  
Benefits*

*Governance*

*Disaster/Lifecycle*

*Neighboring/  
Regional Impacts*



See Adaptation Roadmap guidance on pages 130-144.

# Adaptation Roadmap

## Worksheet 4F: Scenarios to Explore

### 4.3 Explore Future Scenarios

#### Scenario Planning Approach and Parameters

There can be many different ways to solve any given problem. Use the spaces and check boxes to describe the scenario planning conditions that set up the scenario planning exercise that will be done with communities and stakeholders. The purpose of exploring future scenarios is to explore *what adaptation could look like* and *how* to address the key issues identified from **Worksheet 4C** in ways that meet the Vision and Guiding Principles from **Worksheet 4D**.

#### 4.3.3: Approach and Detail: What form or shape will scenarios take?

*Narrative*

*Visual (e.g. Maps)*

*Data (e.g. graphs)*

*Other*

#### 4.3.3: Trajectories: What boundaries set types of solutions to explore?

*Extremes*

*Emphasis on  
Guiding Principles*

*Logical Trajectories*

*Locally Relevant*

#### Scenarios Set-Up: What will each scenario try to accomplish?

Based on the planning parameter selected, what three (or more, or less) scenarios do you want to explore in this activity? For example, an "extreme" parameter may include three scenarios such as: protect the shoreline, accommodate the water, and retreat across the shoreline. These conditions are then used to explore what different adaptation actions could occur to explore different future outcomes.

**#1**

**#2**

**#3**

**Scenario description**

**Scenario description**

**Scenario description**



## EXPLORE YOUR FUTURE SCENARIOS

### 4.3 Explore Future Scenarios & 4.4 Outcomes and Expectations

The following pages and Worksheets 4G-4I provide space for you to use all the information gathered so far in the Adaptation Roadmap and explore what future scenarios could look like.

Consider having on hand the following Worksheets:

- **Risk Perception and Tolerance (Worksheet 4A)**
- **Current Decision-Context (Worksheet 4B)**
- **Problem Statements (Worksheet 4C)**
- **Vision and Guiding Principles (Worksheet 4D)**

These worksheets should already reflect the information gathered in Chapter 3. However, these worksheets may also be particularly relevant and useful in this exercise:

- **Vulnerability Assessment (Worksheet 3A)**
- **Local Stories of Place (Worksheets 3F-3G, and 3K)**
- **Nature-Based and Physical Conditions (Worksheets 3H-3I)**
- **Shoreline Planning Units (Worksheets 3J-3L)**
- **Planning Horizons (Worksheet 3M)**

### Instructions for Recording Scenario Planning Exercise Outcomes

**EXPLORE SCENARIOS:** Uses Worksheets 4G-4I to record scenario exercise and outcomes as described in **4.3.4 Conducting and Summarizing**. Consider including in these descriptions the problem statement(s) they respond to, planning parameter used, description of adaptation solutions and key strategies, opportunities and constraints raised, and alignment with Vision and Guiding Principles. Remember, scenarios can be broad ideas for how we might solve the problems, or include specific actions and strategies from **Chapter 5: Bringing Together Shared Solutions**. Include links to maps or other visuals used.

Use additional space for notes or comments, such as topics to discuss further in **4.4.1 Raising Difficult Topics**, or notes for technical experts to keep in mind when they begin identifying specific adaptation actions and strategies to meet future visions. Additionally, use the space provided to describe if these actions are possible in today's decision context, or if there are changes needed in the **4.4.2 Future Decision Context**.

**ADVANCE SCENARIOS:** Once scenarios have been explored, one or more scenarios should be identified to be advanced to the next Chapter, where greater detail will be applied to specific actions and strategies. Depending on how your scenarios were created, this may include advancing original scenarios or creating new scenarios that can be a preferred or hybrid approach. Use Worksheets 4K-4N to create hybrid or preferred scenarios, if necessary. You may also select original scenarios to advance.

These worksheets, or hybrid versions chosen to be advanced to Chapter 5, will serve as the backbone for technical experts to apply specific adaptation actions and strategies to in greater detail. These details will include creating **5.2 Bundled Strategies** and applying **5.3 Phasing and Sequencing** of strategies to advance adaptation pathways and support **5.4 Tradeoffs and Making Decision**. Use Worksheet 4I or Supplemental pages for additional notes.



See Adaptation  
Roadmap  
guidance on  
pages 130-144.



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4G: Scenarios to Explore

#1

Original title:

New title:

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

4.3.3: Summarize Scenario

What did scenarios illustrate?

To Advance To Chapter 5 (see 4.4.3)

Advance

Combine elements into new hybrid, which can be found on page:

Do NOT advance

Original Scenario Description

What are we trying to accomplish?



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4H: Scenarios to Explore

#2

Original title:

New title:

### To Advance To Chapter 5 (see 4.4.3)

Advance

Combine elements into new hybrid, which can be found on page:

Do NOT advance

### Original Scenario Description

What are we trying to accomplish?

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

What did scenarios illustrate?



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4I: Scenarios to Explore

#3

Original title:

New title:

### To Advance To Chapter 5 (see 4.4.3)

Advance

Combine elements into new hybrid, which can be found on page:

Do NOT advance

### Original Scenario Description

What are we trying to accomplish?

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

What did scenarios illustrate?



See Adaptation  
Roadmap  
guidance on  
pages 130-144.

# Adaptation Roadmap

## Worksheet 4J: Scenarios to Advance

## 4.4 Outcomes and Expectations

### Overarching Notes from Scenario Planning Activity

Uses the space below to record additional notes, as needed, from the scenario planning activity. Consider including links or references to meeting materials, notes, and maps or other visualizations used in developing the scenarios.

### Additional notes



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4K: Hybrid Scenarios

To Advance To Chapter 5 (see 4.4.3)

Advance

Combined elements into new hybrid, from pages:

**NEW**  
**Scenario**  
**Description**

#

Original title:

New title (if needed):

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

What did scenarios illustrate?



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4L: Hybrid Scenarios

To Advance To Chapter 5 (see 4.4.3)

Advance

Combined elements into new hybrid, from pages:

### NEW Scenario Description

#

Original title:

New title (if needed):

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

What did scenarios illustrate?



# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4M: Hybrid Scenarios

**To Advance To Chapter 5 (see 4.4.3)**  
*Advance*  
*Combined elements into new hybrid, from pages:*

### NEW Scenario Description

#  
*Original title:*

*New title (if needed):*

**4.3.4: What kinds of solutions are needed in this scenario?**

**Notes or comments**

**4.4.2: Can we do this today?**

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

*What did scenarios illustrate?*





# Adaptation Roadmap

See Adaptation Roadmap guidance on pages 130-144.

## Worksheet 4N: Hybrid Scenarios

To Advance To Chapter 5 (see 4.4.3)

Advance

Combined elements into new hybrid, from pages:

### NEW Scenario Description

#

Original title:

New title (if needed):

4.3.4: What kinds of solutions are needed in this scenario?

Notes or comments

4.4.2: Can we do this today?

Short-Term

Mid-Term

Long-Term

### 4.3.3: Summarize Scenario

What did scenarios illustrate?

# SUPPLEMENTAL PAGES

Workbook 4 and Outcomes

**Extra space for additional notes as needed.**

# *Adaptation Roadmap*

## **Supplemental Page #**

Extra space for additional notes as needed.

*Duplicate this PDF page to take additional supplemental notes.*

Workbook 4 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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