

Using the Adaptation Roadmap: A Practitioner's Guide Training Webinar

Introduction

Chapter 1. Build Your Adaptation Roadmap

Chapter 2. Center People in Decision-Making

Chapter 3. Set Local Context and Sense of Place

Chapter 4. Shape a Shared Vision of the Future

Chapter 5. Bring Together Shared Solutions

Chapter 6. Pathways Approach to Implementation

Audience Q&A

Speakers



Jaclyn Mandoske Coastal Scientist, BCDC jaclyn.mandoske@bcdc.



adoske Chris Choo BCDC Planning Manager, @bcdc. Marin County ca.gov cchoo@marincounty.org



Jeremy Lowe Senior Environmental Scientist, SFEI jeremyl@sfei.org



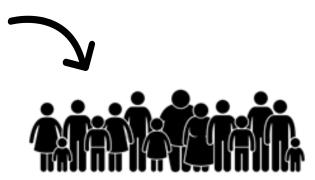
Claire Bonham-Carter
Director of Sustainable
Development, AECOM
claire.bonhamcarter@aecom.com

Why the Adaptation Roadmap? Moving Beyond Vulnerability



Understanding
Vulnerabilities
to Sea Level
Rise is
Essential







Collaborative and
Equitable Adaptation
Outcomes that Are
Locally-Driven and
Regionally Aligned

Values Environment Root Causes of Inequity

Laws Knowledge History Desired Future

Politics Engineering Land Uses Decision-Making

Non-Traditional Timelines Intergenerational Challenge



Identifying Adaptation Solutions is a Societal Response

Why the Adaptation Roadmap?

Moving Beyond Vulnerability



Understanding
Vulnerabilities
to Sea Level
Rise is
Essential

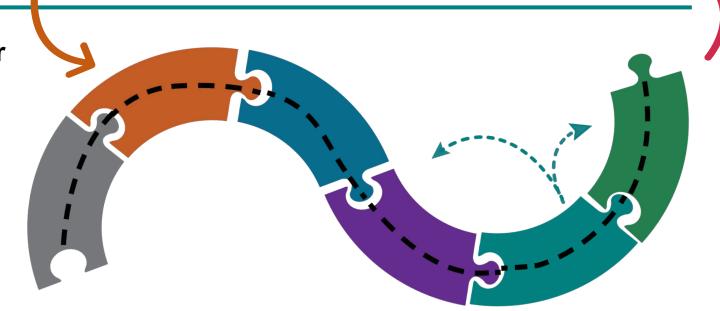






Collaborative and
Equitable Adaptation
Outcomes that Are
Locally-Driven and
Regionally Aligned

The Adaptation Roadmap is a six-chapter handbook for practitioners to move beyond vulnerability assessments to collaboratively build equitable outcomes that respond to change over time with corresponding workbooks to guide decision-making.



Who Is This Resource Designed For?



Practitioners

Local Government Staff
Community-Based Organizations
Non-Governmental Organizations
Tribal Governments
Special Districts
Consultants

Build A Representative Core Team

- Planning
- Public Works/Engineering
- Emergency Management
- Flood Control
- Public Health
- Sustainability
- Transportation
- · Parks and Recreation
- Geographic Information Systems
- Community/Economic Development
- Water/Wastewater Management
- Hazardous Materials
- City Administrator
- City Manager
- Mayor's Office
 - Special Districts
 - Utilities Districts
 - Federal Agencies
 - State Agencies
 - Major Landowners
 - Neighboring Jurisdictions
 - Academia, Research
 - Engineering

a. Local Government Representation

b. Community and Tribal Representation

Community-Based Organizations

- Community Leader(s)
- Vulnerable Community Representatives
- Tribal Community Members
- Tribal Liaisons
- Non-Governmental Organization with Equity Focus

Core Team

c. Locally-Based or + d. Consultant Support Relevant Expertise (as needed) 2.1 Managing the Adaptation Process

What's in the

Adaptation Roadmap?



Introduction

- Laying the Landscape of Adaptation
- Embedding foundational principles
- Using the Adaptation Roadmap





3. Set Local Context and Sense of Place



4. Shape a Shared Vision of the Future



5. Bring Together Shared Solutions



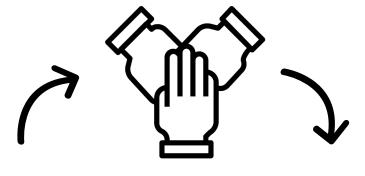
6. Pathways
Approach to
Implementation

1. Build Your Adaptation Roadmap

Adaptation Roadmap Training Webinar

Built Upon Four Foundational Pillars





Collaborative

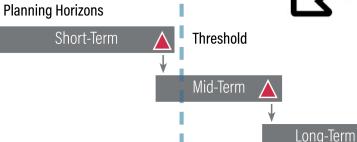
Equitable

Integrative

Flexible



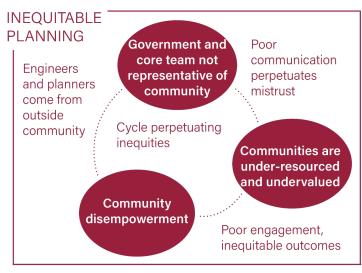




Trigger and Decision Point









hired from within community, solutions are shared and community driven representative community

Cycle

Cycle

strengthening

relationships

Community

Government and core team representative of community

Engages in transparent and frequent communication

Communities are well resourced and paid for their time and expertise

Community
ownership and
empowerment

Community knowledge is
valued and communities
actively participate in
visioning solutions

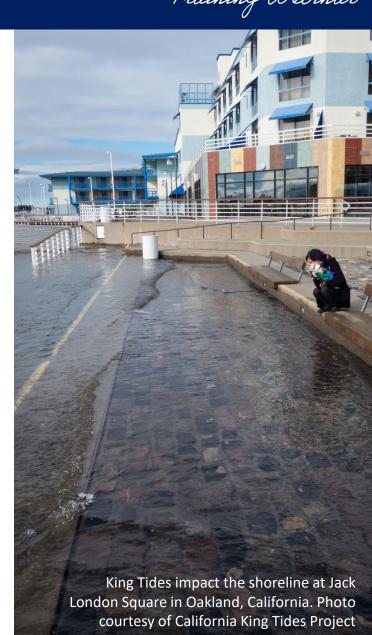
Figure $4 \cdot \text{Cycles}$ of Inequitable and More Equitable Planning | Graphics redrawn from the work of Phoenix Armenta, West Oakland Environmental Indicators Project (WOEIP), and Nahal Ghoghaie, BCDC.

Adaptation Roadmap Training Webinar

Using the Adaptation Roadmap Flexibly

- Can be used in part or in whole
- Fully linkable and designed for easy navigation
- Six corresponding workbooks to record and build upon progress
- Useful across a range of different outcomes
 - Community capacity building
 - Meeting plan mandates
 - Building a project
 - And more!

Let's walk through each Chapter!



Chapter 1 Build Your Adaptation Roadmap



Adaptation Roadmap
Training Webinar

Chapter 1

Build Your Adaptation Roadmap



Chapter 1 is a self-assessment to help you figure out your starting point and how to use these resources to build your roadmap.



Well suited for:

Anyone considering initiating or leading an adaptation effort – governments, NGOs, CBOs, special districts – you name it.



Chapter
Workbook
Outcomes:

- ✓ List of your Strengths and Opportunities
- ✓ List of your Challenges to Address
- ✓ Your Adaptation Roadmap: Sections of the Roadmap to Review Given Desired Outcomes

1.1 Assess Your What and Why

1.1.1 Adaptation Outcomes1.1.2 Initial Lead1.1.3 Motivations and Opportunities1.1.4 Key Barriers

1.2 Assess Your Issues and Scale

1.2.1 Foundational Studies1.2.2 Connected Issues1.2.3 Sea Level Rise and Flooding Science1.2.4 Scale

1.3 Assess Your Capacity and Resources

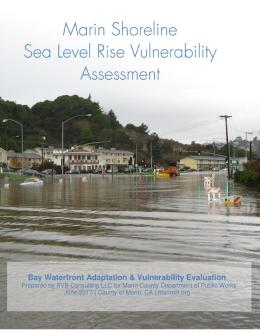
1.3.1 Government Capacity1.3.2 Community Capacity1.3.3 Stakeholder Support1.3.4 Resources and Funding

1.4 Use Workbook 1

Download Workbook 1

Chapter 1 Build Your Adaptation Roadmap In Practice









1.1 Assess Your What and Why

1.1.1 Adaptation Outcomes1.1.2 Initial Lead1.1.3 Motivations and Opportunities1.1.4 Key Barriers

1.2 Assess Your Issues and Scale

1.2.1 Foundational Studies1.2.2 Connected Issues1.2.3 Sea Level Rise and Flooding Science1.2.4 Scale

1.3 Assess Your Capacity and Resources

1.3.1 Government Capacity1.3.2 Community Capacity1.3.3 Stakeholder Support1.3.4 Resources and Funding

1.4 Use Workbook 1

Download Workbook 1

Chapter 2
Center
People in
DecisionMaking



Adaptation Roadmap
Training Webinar

Chapter 2

Center People in Decision-Making



Chapter 2 supports determining decision-making processes and community and stakeholder group structures for collaborative and equitable participation and outcomes.



Well suited for:

Practitioners on the Core Team and Key Partners should work through this chapter to structure how to involve multiple people in the process to make decisions.



Chapter
Workbook
Outcomes:

- ✓ Management Team
- ✓ Co-Created Participation Strategies that includes the Decision-Making Process

2.1 Manage the Process

2.1.1 Build Your Core Team2.1.2 Early Engagement With Key Partners

2.1.3 Consultants in Adaptation2.1.4 Roles and Responsibilities

2.2 Input in the Process

2.2.1 Stakeholder Groups and Goals2.2.2 Audiences Involved and Why2.2.3 Identify and Map Populations2.2.4 Assess Relationships for Participation

2.3 Participation and Decisions

2.3.1 Participatory Engagement2.3.2 Types of Participation Structures2.3.3 Decision-Making Process

2.3.4 Types of Networks and Agreements

2.4 Effective Communications

2.4.1 Communications Approach2.4.2 Connect to Values

2.4.3 Make it Relatable

2.4.4 Frame the Message and Delivery

2.5 Workbook 2

Download Workbook 2

Chapter 2. Center People in Decision-Making

In Practice

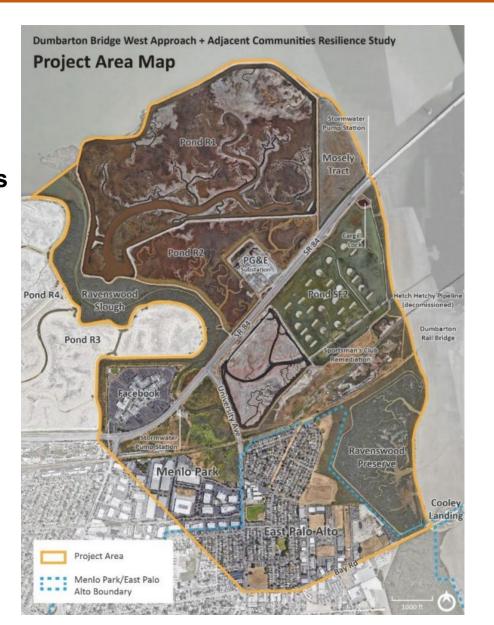
Dumbarton Bridge West Approach + **Adjacent Communities Resilience Study**



2.1 Manage the Process

2.1.1 Build Your Core Team 2.1.2 Early Engagement With **Key Partners** 2.1.3 Consultants in Adaptation

2.1.4 Roles and Responsibilities











Project Management Team

MTC, Caltrans, San Francisquito Creek Joint Powers Authority, City of East Palo Alto, City of Menlo Park, State Coastal Conservancy, Bay Area Regional Collaborative, BCDC

Key Partnerships: Nuestra Casa and Acterra

Consultant Team: AECOM, SFEI, Skeo

https://www.adaptingtorisingtides.org/project /resilient-resilience-partnerships/

Chapter 2. Center People in Decision-Making

In Practice

Dumbarton Bridge West Approach + Adjacent Communities Resilience Study



- Held December 2019
- Facilitators presented project components to obtain feedback on draft alternatives
- Project team members participated to provide further information and facilitate discussion
- Breakout groups to discuss alternatives components, likes & dislikes
- Participants divided into 4 groups:
 - African American
 - Spanish speaking
 - Pacific Islander
 - Youth

2.1 Manage the Process

2.1.1 Build Your Core Team2.1.2 Early Engagement With Key Partners

2.1.4 Roles and Responsibilities

2.2 Input in the Process

2.2.1 Stakeholder Groups and Goals2.2.2 Audiences Involved and Why2.2.3 Identify and Map Populations2.2.4 Assess Relationships for Participation

2.3 Participation and Decisions

2.3.1 Participatory Engagement2.3.2 Types of Participation Structures2.3.3 Decision-Making Process2.3.4 Types of Networks and Agreements

2.4 Effective Communications

2.4.1 Communications Approach2.4.2 Connect to Values2.4.3 Make it Relatable

2.4.4 Frame the Message and Delivery

2.5 Workbook 2

Download Workbook 2

Chapter 2. Center People in Decision-Making

In Practice

Dumbarton Bridge West Approach + Adjacent Communities Resilience Study

NUESTRA CASA FEEDBACK



Environmental stewardship



Interest to protect homes and neighborhoods



Concerns to moving PG&E substation



Groundwater and Stormwater impacts behind the levees



Improve streets and drainage in EPA



Community building



Support for raising University Avenue

Living levees
planting
trees/vegetation
and protecting
marsh

Support raising levees

from flooding

Could it remain in place or relocate elsewhere? How will these be addressed?

Potential for green infrastructure opportunity

Interest in community building, community stewardship and disaster preparedness

2.1 Manage the Process

2.1.1 Build Your Core Team 2.1.2 Early Engagement With Kev Partners

2.1.4 Roles and Responsibilities

2.2 Input in the Process

2.2.1 Stakeholder Groups and Goals2.2.2 Audiences Involved and Why2.2.3 Identify and Map Populations2.2.4 Assess Relationships for Participation

2.3 Participation and Decisions

2.3.1 Participatory Engagement2.3.2 Types of Participation Structures2.3.3 Decision-Making Process2.3.4 Types of Networks and Agreements

2.4 Effective Communications

2.4.1 Communications Approach

2.4.4 Frame the Message and

2.4.2 Connect to Values

2.4.3 Make it Relatable

Delivery

s 2.5 Workbook 2

Download Workbook 2

Chapter 3
Set Local
Context and
Sense of
Place



Adaptation Roadmap

Chapter 3

Set Local Context and Sense of Place



Chapter 3 supports gathering and reviewing conditions of planning, society, economy, environment, and climate impacts to set the context for the problem and solutions.



Well suited for:

Practitioners on the Core Team and Key Partners should work through this content *with* **communities and stakeholders** and have dialogue to understand key issues and concerns.



Chapter Workbook Outcomes:

- ✓ List of Plans or Processes
- ✓ Stories of Place
- ✓ Nature-Based and Physical Conditions
- ✓ Shoreline Planning Units
- Planning Horizons

3.1 Align Local Plans

3.1.1 Vulnerability Assessment3.1.2 Local Plan Alignment3.1.3 Neighboring or Regional Alignment

3.2 Community Values

3.2.1 Build Upon CommunityInitiatives3.2.2 Connect to Local

Knowledge

3.2.3 Stories of Place

3.3 Environmental and Physical

3.3.1 Value of Nature

3.3.2 Projects and Infrastructure

3.3.3 Shoreline Planning Units

3.4 Frame Adaptation Pathways

3.4.1 Conceptual Framing

3.4.2 Thresholds

3.4.3 Triggers and Monitoring

3.4.4 Planning Horizons

3.5 Workbook 3

Download Workbook 3

Chapter 3. Set Local Context and Sense of Place

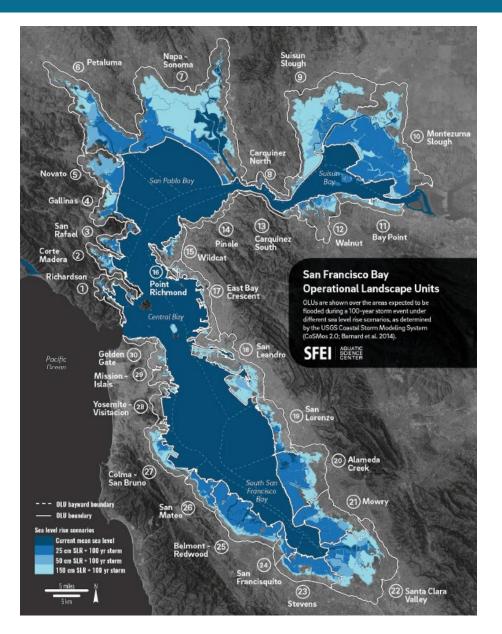
In Practice

Applying Nature- Based Solutions

3.1 Align Local Plans

3.1.1 Vulnerability Assessment3.1.2 Local Plan Alignment

3.1.3 Neighboring or Regional Alignment



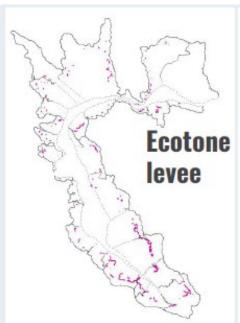
Operational Landscape Unit (OLU)

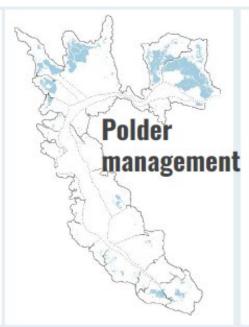
Areas with shared geophysical and land use characteristics suited for a particular suite of nature-based measures

- Bigger than a project
- Bigger than a City
- Smaller than a County
- Defined by geomorphic units & bathymetry
- Characterized by
- Physical and ecological factors
- Built environment patterns
- Key vulnerabilities

Chapter 3. Set Local Context and Sense of Place - In Practice









Nature-based measures

- Nearshore reefs
- Submerged aquatic vegetation (SAV) (eelgrass)
- Beaches
- Tidal marsh
- Polder management
- Ecotone levees
- Migration space preparation
- Creek-to-Baylands reconnection
- Green stormwater infrastructure

3.1 Align Local Plans

3.1.1 Vulnerability Assessment3.1.2 Local Plan Alignment3.1.3 Neighboring or Regional Alignment

3.2 Community Values

3.2.1 Build Upon Community Initiatives

3.2.2 Connect to Local Knowledge

3.2.3 Stories of Plac

3.3 Environmental and Physical

3.3.1 Value of Nature

3.3.2 Projects and Infrastructure

3.3.3 Shoreline Planning Units

3.4 Frame Adaptation Pathways

3.4.1 Conceptual Framino

3.4.2 Thresholds

3.4.3 Triggers and Monitoring

3.4.4 Planning Horizons

3.5 Workbook 3

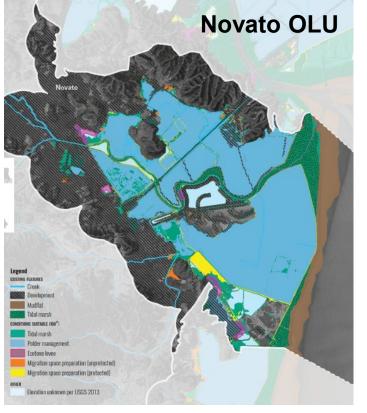
Download Workbook 3

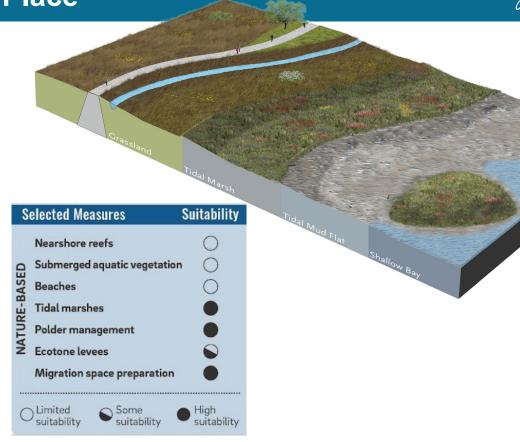
Adaptation Roadmap
Training Webinar

Chapter 3. Set Local Context and Sense of Place

In Practice

Applying Nature- Based Solutions





3.1 Align Local Plans

3.1.1 Vulnerability Assessment3.1.2 Local Plan Alignment3.1.3 Neighboring or Regional Alignment

3.2 Community Values

3.2.1 Build Upon Community Initiatives

3.2.2 Connect to Local Knowledge

3.2.3 Stories of Place

3.3 Environmental and Physical

3.3.1 Value of Nature

3.3.2 Projects and Infrastructure

3.3.3 Shoreline Planning Units

3.4 Frame Adaptation Pathways

3.4.1 Conceptual Framino

3.4.2 Thresholds

3.4.3 Triggers and Monitoring

3.4.4 Planning Horizons

3.5 Workbook 3

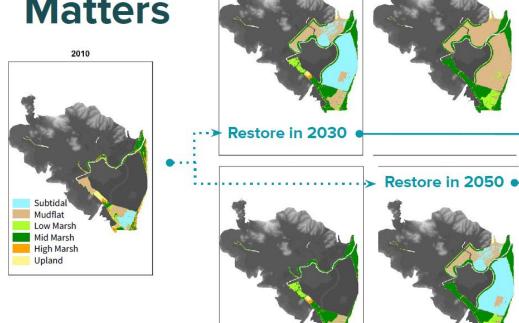
Download Workbook 3

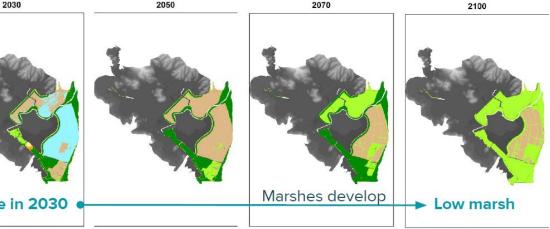
Chapter 3. Set Local Context and Sense of Place

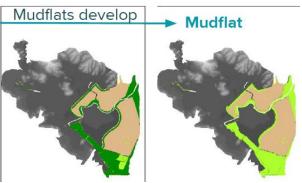
In Practice

Applying Nature- Based Solutions









3.1 Align Local Plans

3.1.1 Vulnerability Assessment
3.1.2 Local Plan Alignment
3.1.3 Neighboring or Regional
Alignment

3.2 Community Values

3.2.1 Build Upon CommunityInitiatives3.2.2 Connect to LocalKnowledge

3.3 Environmental and Physical

3.3.1 Value of Nature3.3.2 Projects and Infrastructure3.3.3 Shoreline Planning Units

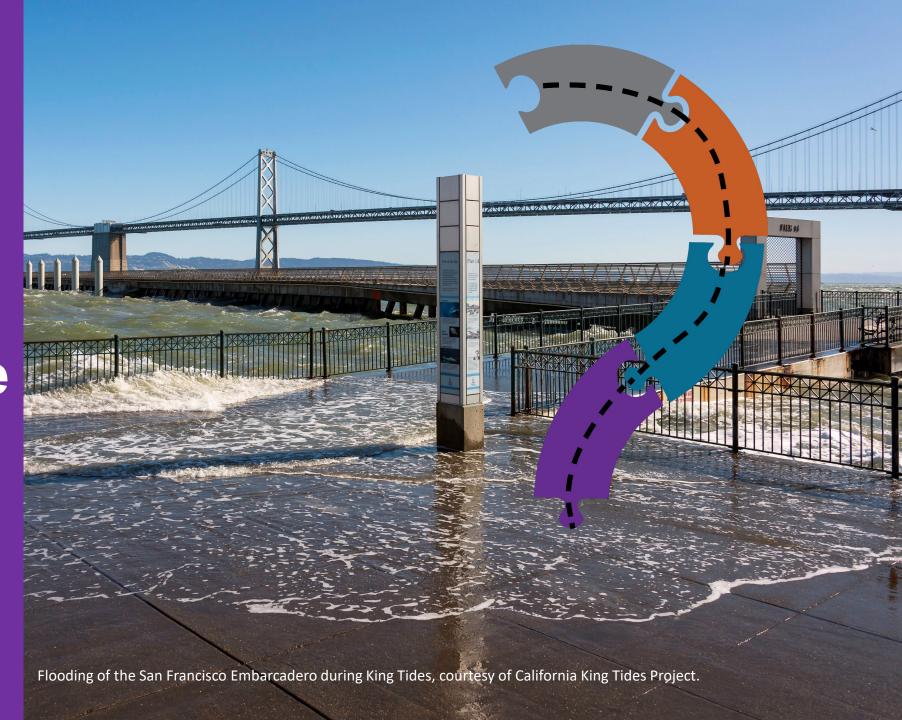
3.4 Frame Adaptation Pathways

3.4.1 Conceptual Framing3.4.2 Thresholds3.4.3 Triggers and Monitoring3.4.4 Planning Horizons

3.5 Workbook 3

Download Workbook 3

Chapter 4
Shape a
Shared
Vision of the
Future



Adaptation Roadmap
Training Webinar

Chapter 4

Shape a Shared Vision of the Future



Chapter 4 supports laying out the problem, determining the future you what, what success means for your communities and what it could look like to get there.



Well suited for:

Practitioners on the Core Team and Key Partners should organize opportunities for **communities** and **stakeholders** to co-develop the outcomes of this chapter.



Chapter Workbook Outcomes:

- ✓ Shared vision and guiding principles
- ✓ Scenarios that align with the vision over the short, medium, and long-term

4.1 Define the Problem

4.1.1 Risk Tolerance and Perception4.1.2 Current Decision Context4.1.3 Shared Problems to RespondTo

4.2 What Success Means

4.2.1 Vision4.2.2 Guiding Principles4.2.3 Evaluation Criteria

4.3 Explore Future Scenarios

4.3.1 Scenarios as a Pathways Tool4.3.2 Strategic Approaches4.3.3 Scenario Planning Parameters4.3.4 Conducting and Summarizing

4.4 Outcomes and Expectations

4.4.1 Raising Difficult Topics4.4.2 Future Decision Context4.4.3 Advancing Scenarios

4.5 Workbook 4

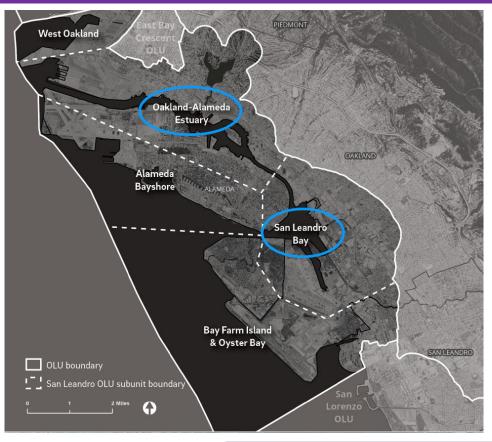
Download Workbook 4

Chapter 4. Shape a Shared Vision of the Future

In Practice

San Leandro/ Oakland/Alameda Estuary Working Group





Proposed goals

- Maintain transportation corridors
- Improve community access to shoreline
- Improve flood protection for low-lying areas behind Doolittle Drive
- Maintain existing tidal marshes and improve high tide refuge opportunities for wildlife
- Create more marsh migration space and protect marsh-upland transition zone habitat

4.1 Define the Problem

4.1.1 Risk Tolerance and Perception4.1.2 Current Decision Context4.1.3 Shared Problems to RespondTo

4.2 What Success Means

4.2.1 Vision4.2.2 Guiding Principles4.2.3 Evaluation Criteria

4.3 Explore Future Scenarios

4.3.1 Scenarios as a Pathways Tool4.3.2 Strategic Approaches4.3.3 Scenario Planning Paramete

4.4 Outcomes and Expectations

4.4.1 Raising Difficult Topics4.4.2 Future Decision Context4.4.3 Advancing Scenarios

4.5 Workbook 4

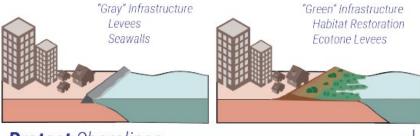
Download Workbook 4

Chapter 4. Shape a Shared Vision of the Future

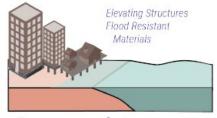
In Practice

San Leandro/ Oakland/Alameda Estuary Working Group

Sea Level Rise Adaptation Approaches

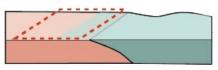


Protect Shorelines

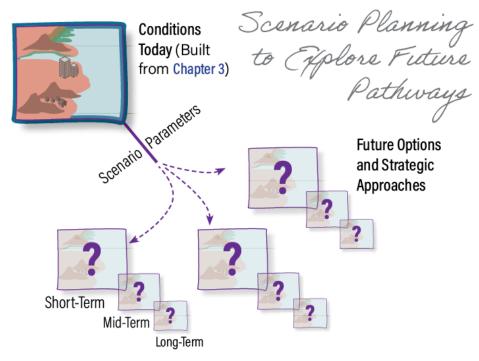


Accommodate the Water

Restrict Development Equitably Relocate



Avoid or Retreat Developed Areas



4.1 Define the Problem

4.1.1 Risk Tolerance and Perception4.1.2 Current Decision Context4.1.3 Shared Problems to RespondTo

4.2 What Success Means

4.2.1 Visio

4.2.2 Guiding Principle

4.2.3 Evaluation Criteria

4.3 Explore Future Scenarios

4.3.1 Scenarios as a Pathways Tool

4.3.2 Strategic Approaches

4.3.3 Scenario Planning Parameters

4.3.4 Conducting and Summarizing

4.4 Outcomes and Expectations

4.4.1 Raising Difficult Topic

4.4.2 Future Decision Context

4.4.3 Advancing Scenarios

4.5 Workbook 4

Download Workbook 4

Chapter 4. Shape a Shared Vision of the Future

In Practice

San Leandro/ Oakland/Alameda Estuary Working Group



Phase I. Raise road, interim recreation, and wellness zones habitat enhancements Enhance high tide refuge for wildlife at Arrowhead Improve tidal Marsh & Damon Marsh connectivity at Fan Raise road Improve berm Tidal marsh Shallow water Deep water



4.1 Define the Problem

4.1.1 Risk Tolerance and Perception4.1.2 Current Decision Context4.1.3 Shared Problems to RespondTo

4.2 What Success Means

4.2.1 Vision
4.2.2 Guiding Principle

4.3 Explore Future Scenarios

4.3.1 Scenarios as a Pathways Tool4.3.2 Strategic Approaches4.3.3 Scenario Planning Parameters

4.3.4 Conducting and Summarizing

4.4.2 Future Decision Conte

4.4 Outcomes and Expectations

4.4.3 Advancing Scenarios

4.5 Workbook 4

Download Workbook 4

4.5 Use Workbook ² Outcomes

Marsh migration and

transition zone

enhancement

Chapter 4. Shape a Shared Vision of the Future

Phase I. Interim flood

space opportunities

management, expand marsh

Improve tidal connectivity

Add backflow prevention to culvert Regrade low spot in roadway

migration and recreational

In Practice

San Leandro/ Oakland/Alameda **Estuary Working** Group

Approach 2: Expand

marsh migration space early

4.1 Define the Problem

4.1.3 Shared Problems to Respond

Tidal marsh

4.2 What Success Means

0

4.3.1 Scenarios as a Pathways Tool

4.3.2 Strategic Approaches

4.3.3 Scenario Planning Parameters

4.3.4 Conducting and Summarizing

4.3 Explore Future Scenarios

Realign Bay Trail, including transition

zone enhancement and recreational

elements (wellness zones)

Enhance high tide refuge for

wildlife at Arrowhead Marsh

4.4 Outcomes and Expectations

Prep ecotone levee/

transition zone habitat

Depending on alignment

selected, segments of roadway not realigned

may need to be raised

Phase II. Road/trail

enhancement

Marsh-upland transition zone

Marsh migration space

0.25 0.5 Miles

Tidal marsh

Deep water

Tidal flat Shallow water

realignment, restoration

preparation, and habitat

Realign Doolittle Dr (various alignments possible)

4.5 Workbook 4

to promote marsh

Download Workbook 4



Adaptation Roadmap
Training Webinar

Chapter 5

Bring Together Shared Solutions



Chapter 5 supports bringing together all the pieces to build adaptation strategies that reflect community and stakeholders' concerns, are bundled, phased, evaluated, and selected.



Well suited for:

Practitioners on the Core Team and Key Partners should work with technical experts or consultants to apply adaptation strategies and engage with communities and stakeholders in decision-making.



Chapter
Workbook
Outcomes:

✓ Adaptation strategies for the short, medium, and long-term that are evaluated and decided upon

5.1 Explore Actions

5.1.1 Actions and Strategies5.1.2 Adaptation Action Types5.1.3 ART Adaptation Catalog

5.2 Bundled Strategies

5.2.1 Starting With the End in Mind5.2.2 Linking Plans and Programs5.2.3 Connecting to People5.2.4 Paying for Adaptation

5.3 Phasing and Sequencing

5.3.1 Action Lifespan and Time Horizons5.3.2 Sequencing and Lead Times5.3.3 Applying Triggers and DecisionPoints

5.3.4 Visualizing Adaptation Pathways

5.4.1 Share Results and Apply Evaluation Criteria

5.4.2 Additional Evaluation Approaches

5.4.3 Make Decisions on Adaptation

5.4 Tradeoffs and Decisions

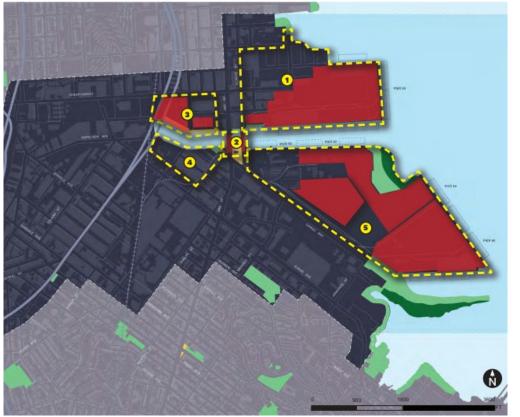
5.5 Workbook 5

Download Workbook 5

In Practice

Islais Creek Southeast Mobility Adaptation Strategy





5 Reaches Grouping Adaptation Strategies

- Reach 1 Northeastern Waterfront
- Reach 2 Creek Channel Crossing
- Reach 3 Northwestern Creek Bank
- Reach 4 Southwestern Creek Bank
- Reach 5 Southeastern Waterfront

https://sfplanning.org/project/islais

5.1 Explore Actions

5.1.1 Actions and Strategies5.1.2 Adaptation Action Types5.1.3 ART Adaptation Catalog

5.2 Bundled Strategies

5.2.1 Starting With the End in Mind5.2.2 Linking Plans and Programs5.2.3 Connecting to People5.2.4 Paying for Adaptation

5.3 Phasing and Sequencing

5.3.1 Action Lifespan and Time Horizons5.3.2 Sequencing and Lead Times5.3.3 Applying Triggers and DecisionPoints

5.3.4 Visualizing Adaptation Pathways

5.4 Tradeoffs and Decisions

5.4.1 Share Results and Apply Evaluation Criteria 5.4.2 Additional Evaluation Approaches

5.4.3 Make Decisions on Adaptation

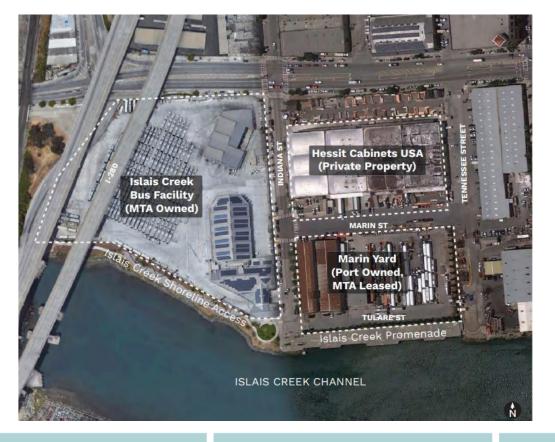
5.5 Workbook 5

Download Workbook 5

In Practice

Islais Creek Southeast Mobility Adaptation Strategy





Evaluated a range of different adaptation types

ART Adaptation Catalog as a database of adaptation actions: http://www.adaptingtorisingtides.org/wp-content/uploads/2022/03/AdaptationRoadmap_ART_AdaptationCatalog_March_2022.xlsx

5.1 Explore Actions

5.1.1 Actions and Strategies5.1.2 Adaptation Action Types5.1.3 ART Adaptation Catalog

5.2 Bundled Strategies

5.2.1 Starting With the End in Mind
5.2.2 Linking Plans and Programs
5.2.3 Connecting to People

5.3 Phasing and Sequencing

5.3.1 Action Lifespan and Time Horizons5.3.2 Sequencing and Lead Times5.3.3 Applying Triggers and DecisionPoints

5.3.4 Visualizing Adaptation Pathways

5.4 Tradeoffs and Decisions

Evaluation Criteria

5.4.2 Additional Evaluation

Approaches

5.4.3 Make Decisions on Adaptation

5.5 Workbook 5

Download Workbook 5

In Practice

Islais Creek Southeast Mobility Adaptation Strategy



Existing Open Space New or Improved Open Space New Rock Grovne SLAS CREEK PROMITOR Deep Water Berth General Water Berth 4. Restore shoreline along Islais Creek in front of the bus facility Existing Buildings

Reach 3 – Northwestern Creek Bank

Introduce flood protection measures at critical SFMTA facilities and enhance public access to the creek's shoreline.

Key assets include: Islais Creek Bus Facility (SFMTA) and Marin Yard (SFMTA)

5.1 Explore Actions

5.1.1 Actions and Strategies5.1.2 Adaptation Action Types5.1.3 ART Adaptation Catalog

5.2 Bundled Strategies

5.2.1 Starting With the End in Mind5.2.2 Linking Plans and Programs5.2.3 Connecting to People5.2.4 Paying for Adaptation

5.3 Phasing and Sequencing

5.3.1 Action Lifespan and Time Horizons5.3.2 Sequencing and Lead Times5.3.3 Applying Triggers and DecisionPoints

5.3.4 Visualizing Adaptation Pathways

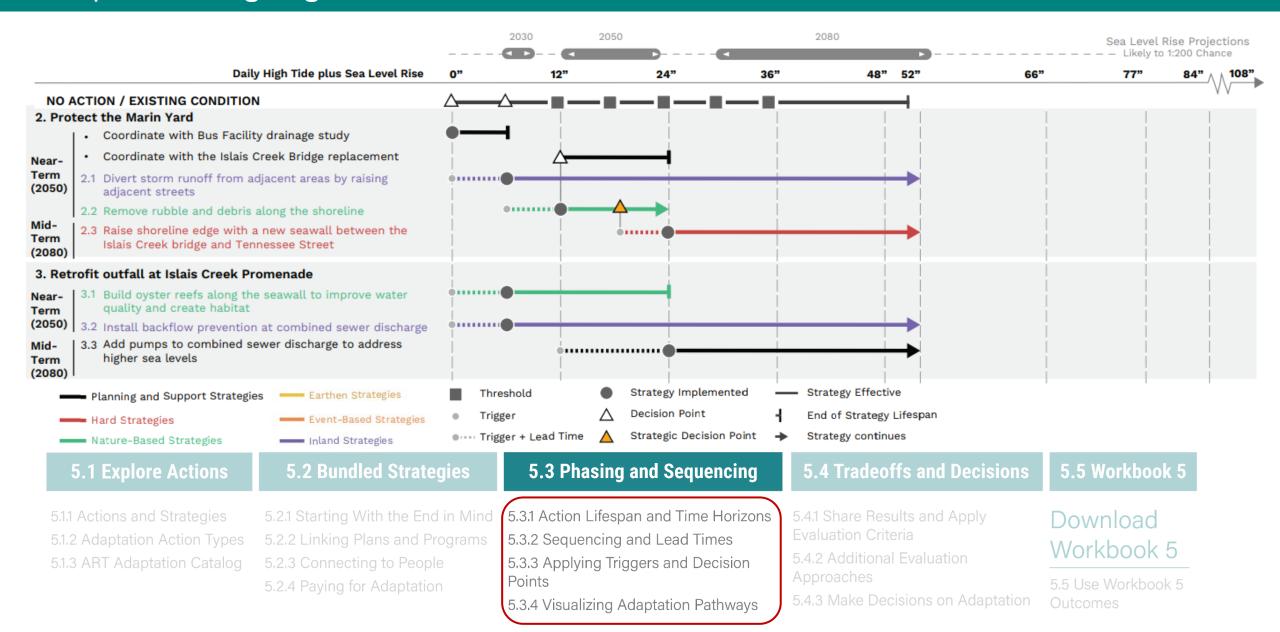
5.4 Tradeoffs and Decisions

5.4.1 Share Results and Apply Evaluation Criteria5.4.2 Additional Evaluation

5.4.3 Make Decisions on Adaptation

5.5 Workbook 5

Download Workbook 5



Chapter 6 Pathways Approach to Implementation



Adaptation Roadmap
Training Webinar Part III

Chapter 6

Pathways Approach to Implementation



Chapter 6 supports
advancing adaptation
outcomes through
appropriate plans,
processes, and people with
an approach for
implementing next steps
and monitoring over time.



Well suited for:

Practitioners on the Core Team and Key Partners should advance adaptation outcomes with support from local champions with communities and stakeholder groups for implementation.



Chapter
Workbook
Outcomes:

- ✓ Adopted Adaptation Plan (or integrated into relevant plans)
- ✓ Implementation Work Plan

6.1 Link Strategies to Outcomes

6.1.1 Creating (Or Connecting To) Plans6.1.2 Connecting Processes and Projects6.1.3 Connecting People

6.2 Advance Near-Term Strategies

6.2.1 Implementation Work Plan6.2.2 Order of Implementation6.2.3 Sustaining Momentum

6.3 Prepare for Changes Over Time

6.3.1 Monitoring and Tracking6.3.2 Reacting to Changes6.3.3 Love Letter to the Future

6.4 Workbook 6

Download Workbook 6

Chapter 6. Pathways Approach to Implementation - In Practice







6.1 Link Strategies to Outcomes

6.1.1 Creating (Or Connecting To) Plans6.1.2 Connecting Processes and Projects6.1.3 Connecting People

6.2 Advance Near-Term Strategies

6.2.1 Implementation Work Plan6.2.2 Order of Implementation6.2.3 Sustaining Momentum

6.3 Prepare for Changes Over Time

6.3.1 Monitoring and Tracking6.3.2 Reacting to Changes6.3.3 Love Letter to the Future

6.4 Workbook 6

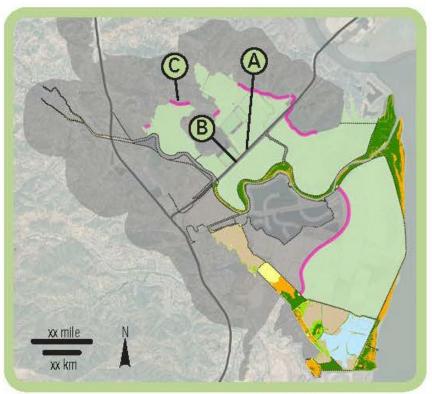
Download Workbook 6

6.4 Use Workbook 6 Dutcomes

Chapter 6. Pathways Approach to Implementation - In Practice

Opportunities to "maximize habitat/minimize risk":

- Reconnect baylands to tidal action by elevating Highway 37 onto a causeway
- B Lengthen and raise Highway 37 bridge over Novato Creek
- Build ecotone levees between development and areas newly restored to tidal action





6.1 Link Strategies to Outcomes

6.1.1 Creating (Or Connecting To) Plans6.1.2 Connecting Processes and Projects6.1.3 Connecting People

6.2 Advance Near-Term Strategies

6.2.1 Implementation Work Plan6.2.2 Order of Implementation6.2.3 Sustaining Momentum

6.3 Prepare for Changes Over Time

6.3.1 Monitoring and Tracking6.3.2 Reacting to Changes6.3.3 Love Letter to the Future

6.4 Workbook 6

Download Workbook 6

6.4 Use Workbook 6 Dutcomes

Chapter 6. Pathways Approach to Implementation - In Practice







6.1 Link Strategies to Outcomes

6.1.1 Creating (Or Connecting To) Plans6.1.2 Connecting Processes and Projects6.1.3 Connecting People

6.2 Advance Near-Term Strategies

6.2.1 Implementation Work Plan6.2.2 Order of Implementation6.2.3 Sustaining Momentum

6.3 Prepare for Changes Over Time

6.3.1 Monitoring and Tracking6.3.2 Reacting to Changes6.3.3 Love Letter to the Future

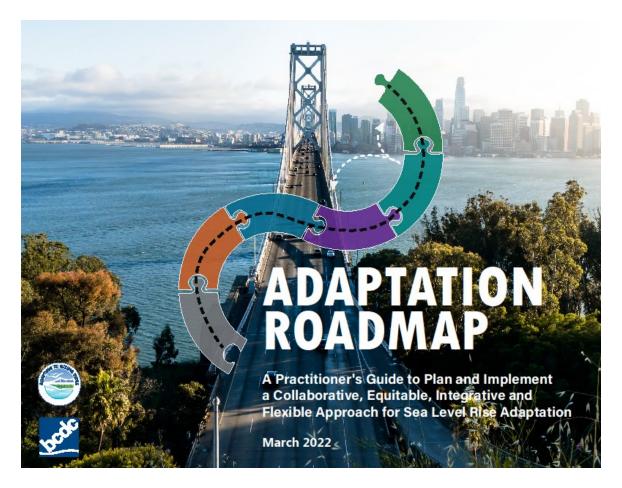
6.4 Workbook 6

Download Workbook 6

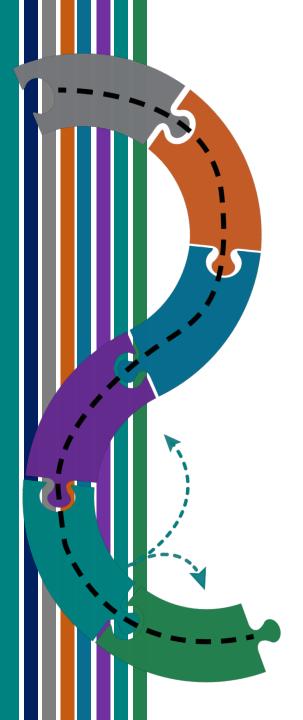
6.4 Use Workbook 6 Dutcomes

Interested in Using the Adaptation Roadmap?

- Fully linkable PDF available for <u>download</u> <u>now</u> and designed for easy navigation with corresponding workbooks
- There is a two-page overview
- This webinar will be posted online (shortly)
- Quick-reference guides (in development)
- Happy to schedule follow-up trainings individually or deeper dives on topics/chapters if requested (<u>Jaclyn.Mandoske@bcdc.ca.gov</u>)



www.adaptingtorisingtides.org/projects/adaptationroadmap



Adaptation Roadmap Training Webinar

Audience Q&A