

Adaptation Roadmap

*Using Adaptation
Pathways to Explore
Opportunities for Future
Generations*

May 2022





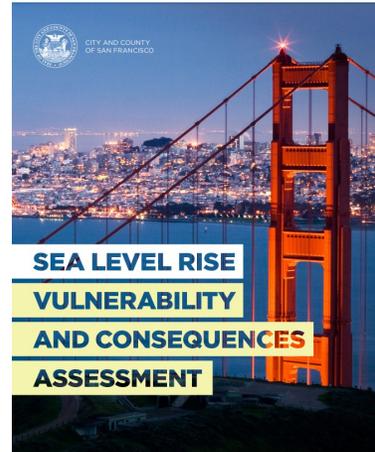
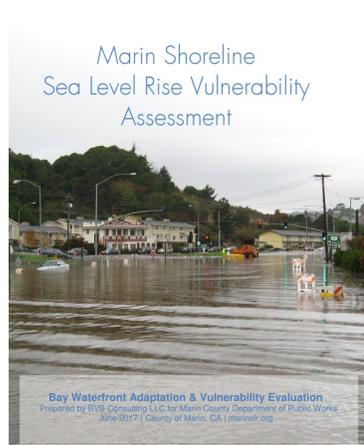
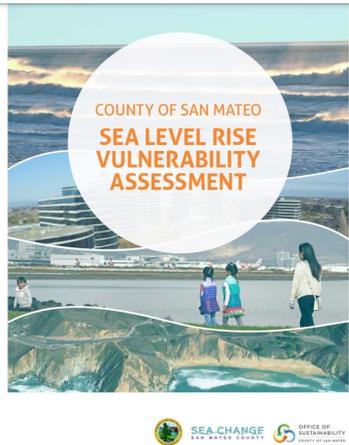
BCDC

State regulatory and planning agency

Protect and enhance the San Francisco Bay and encourage the Bay's responsible and productive use for this and future generations



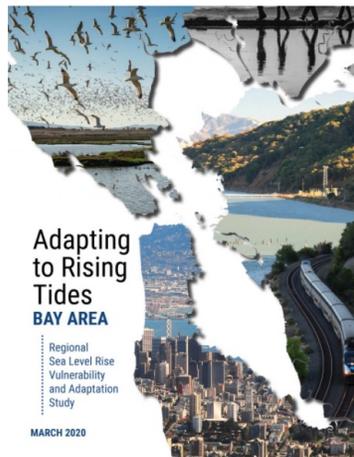
Moving beyond sea level rise vulnerability



81 percent of cities and counties *surveyed* said they have information about their jurisdiction's vulnerability

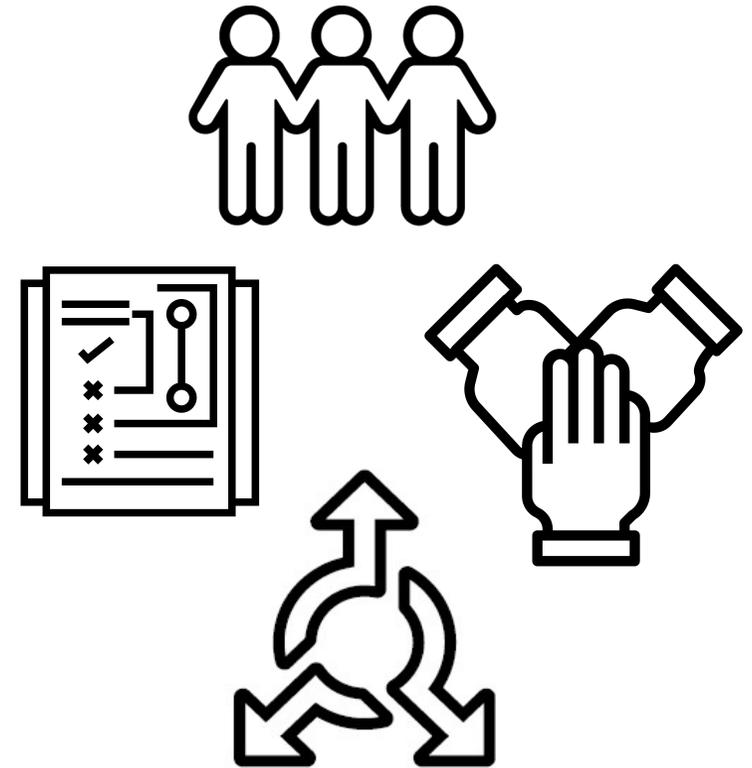
Of those, **almost half** (45%) said they *have not yet started adaptation planning*

We know we must start making local decisions *now* to address the risks we face



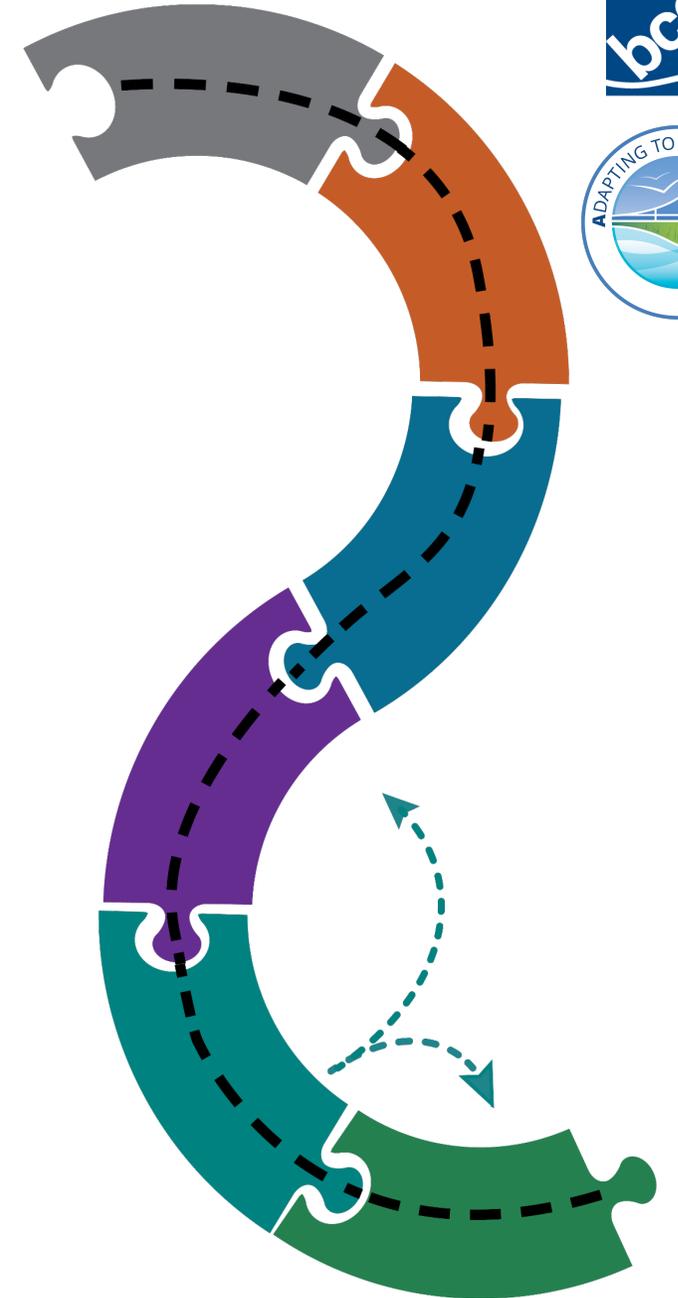
Why is adaptation so challenging?

- Involvement of large numbers of **diverse stakeholders, communities, and sectors**
- Complex **decision-making landscape**
- Addressing **historic injustices, equity**, and the need for **community-led solutions**
- **Non-traditional timelines** for sea level rise adaptation and making decisions under uncertainty
- Prioritizing and **preserving habitats** over time
- Intergenerational challenge and lack of compelling **shared story of resilience**



What is the Adaptation Roadmap?

The Adaptation Roadmap is a handbook for practitioners to move beyond vulnerability assessments to **collaboratively and equitably co-create sustainable outcomes** that respond to *change over time*.



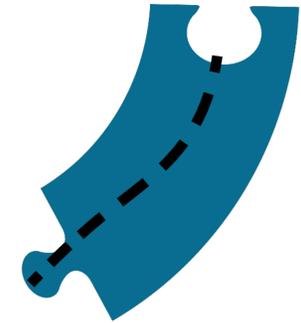
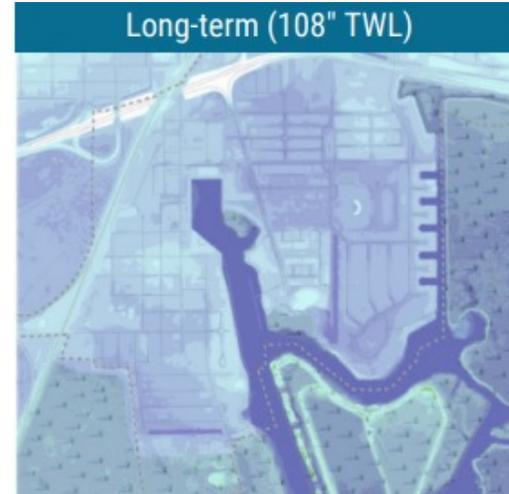
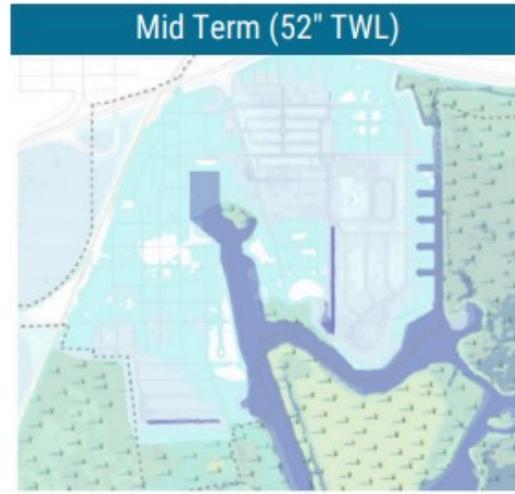
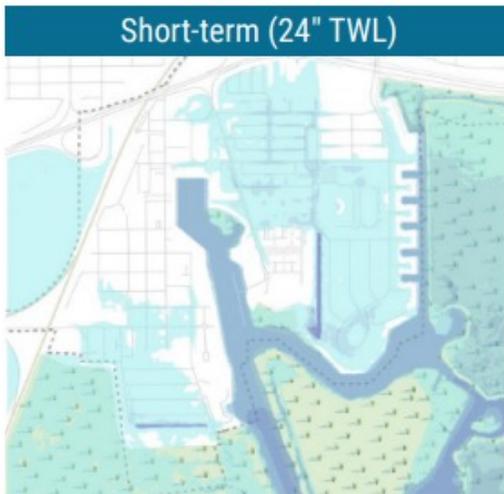
Key topics in the Adaptation Roadmap

- Building upon **existing efforts**
- Embedding **equity in every step** of the process and outcomes
- Understanding of **environmental landscape** and **framing time horizons** for adaptation pathways (i.e., short, medium, and long-term)
- Exploring **future outcomes** in scenario planning (i.e., social and environmental)
- Considering a **suite of adaptation outcomes** (protect, accommodate, retreat, avoid, and prepare)
- Ensuring **decisions are made locally** – by and for communities with social and environmental health considered over time

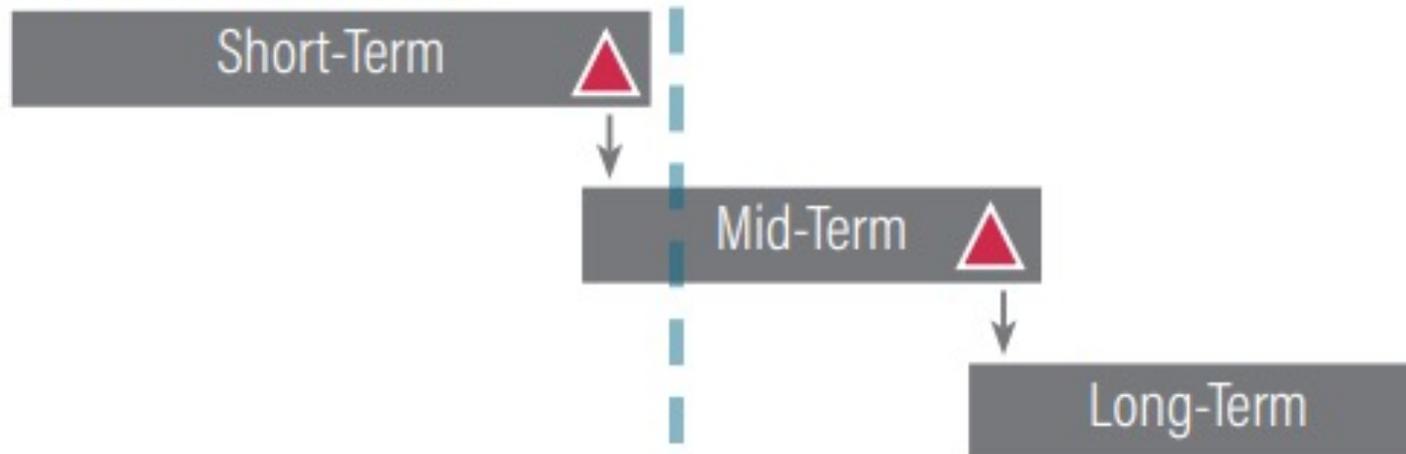
1. Build Your Adaptation Roadmap
2. Center People in Decision-Making
3. Set Local Context and Sense of Place
4. Shape a Shared Vision of the Future
5. Bring Together Shared Solutions
6. Pathways Approach to Implementation



Defining future time horizons

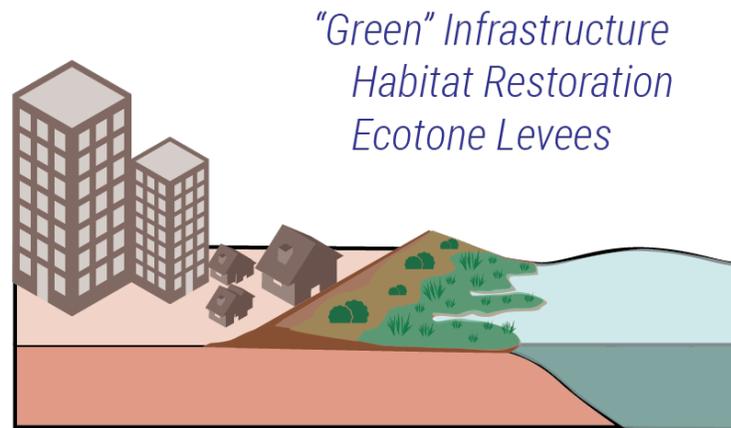
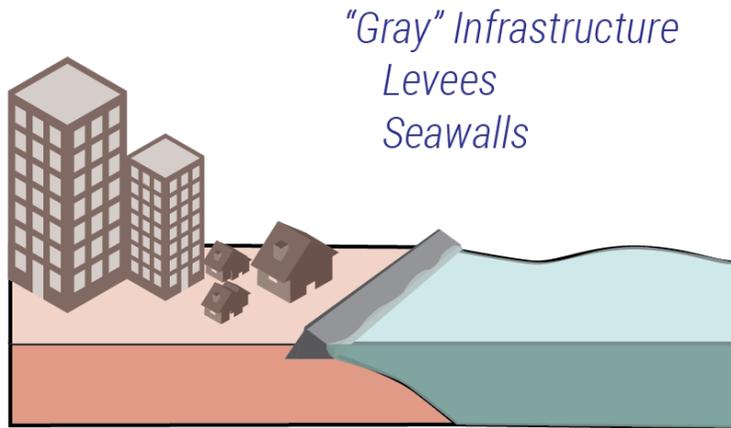


Adaptation
pathway
concept

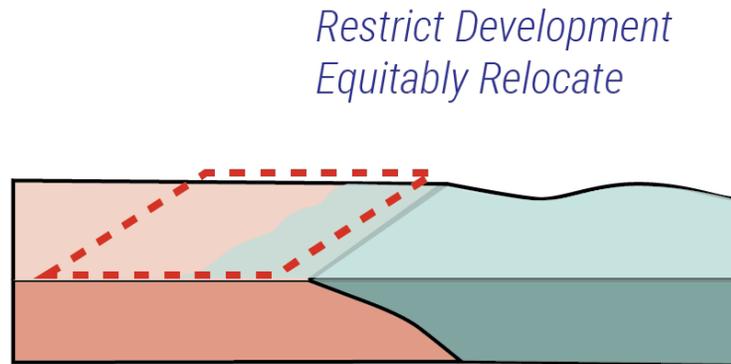
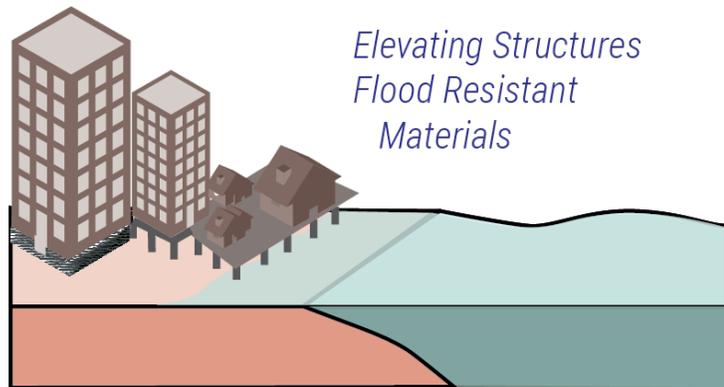


Adaptation Roadmap

Hypothetical case study in Suisun City, CA. This is an illustrative example of how time horizons may be applied locally.



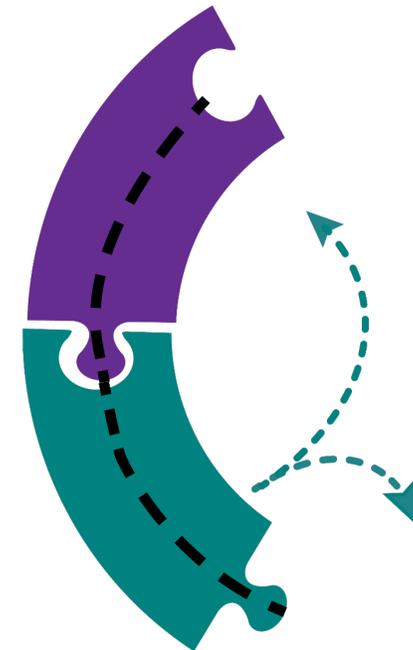
Protect Shorelines



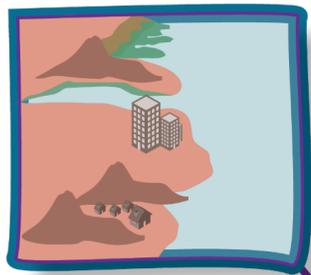
**Accommodate
the Water**

**Avoid or Retreat
Developed Areas**

**What are
adaptation
outcomes?**



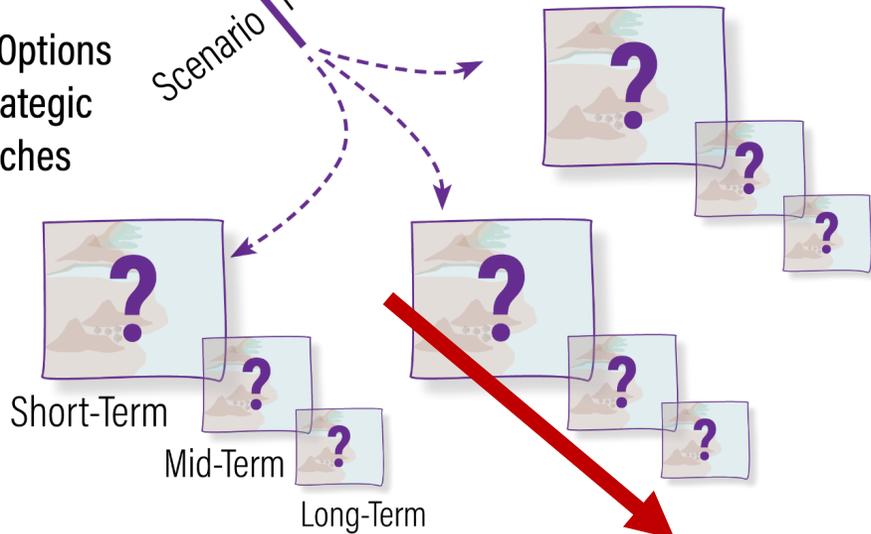
How do outcomes change over time?



Conditions Today (Built from Chapter 3)

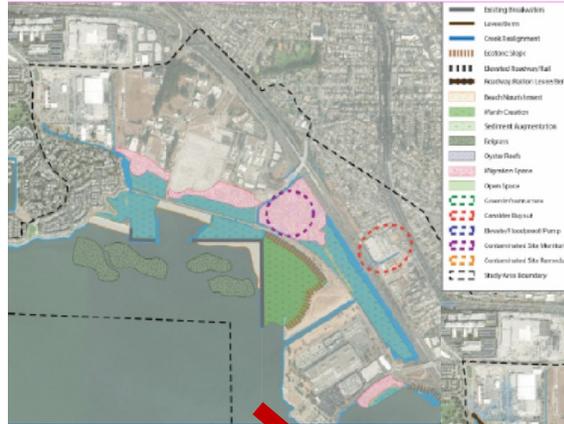
Future Options and Strategic Approaches

Scenario Parameters

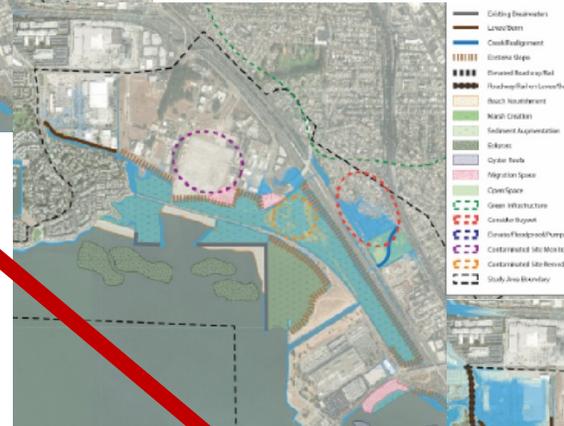


Adaptation Roadmap

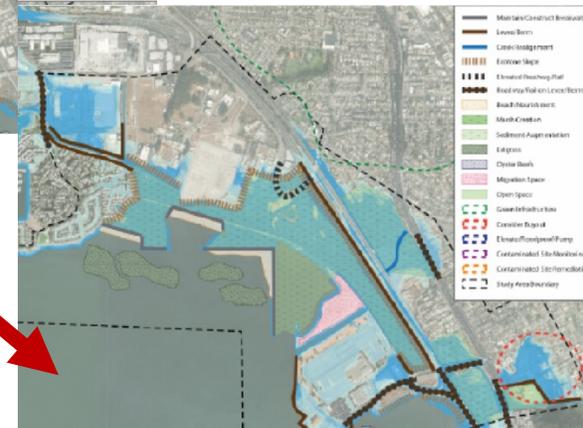
Short-term



Medium-term



Long-term



Hypothetical case study in Richmond, CA. This scenario explored how to maximize habitat.

Value of thinking ahead



2 ...sheds insight on what actions in the short and mid-terms can enable future options...

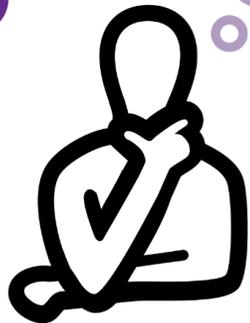


Short-term

Mid-term

Long-term

3 ...and supports which decisions can be made today to protect people and habitats that also keep future options open.



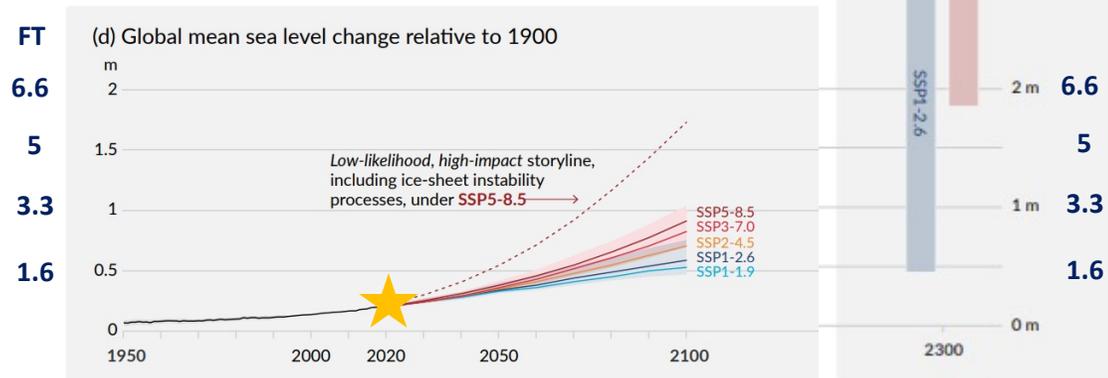
1 Providing space to brainstorm long-term potential outcomes...

Keeping adaptation options open for the future

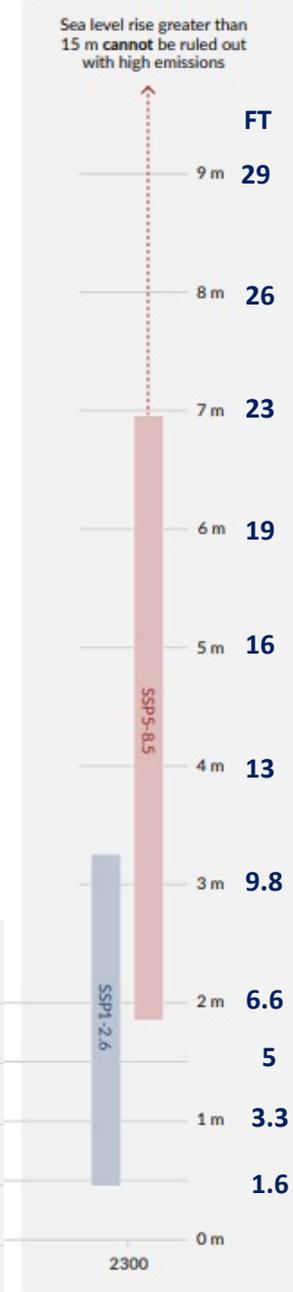


San Francisco Embarcadero. Photo from California King Tides Project.

We are living in a snapshot in time on a changing, dynamic, mobile shoreline.



(e) Global mean sea level change in 2300 relative to 1900

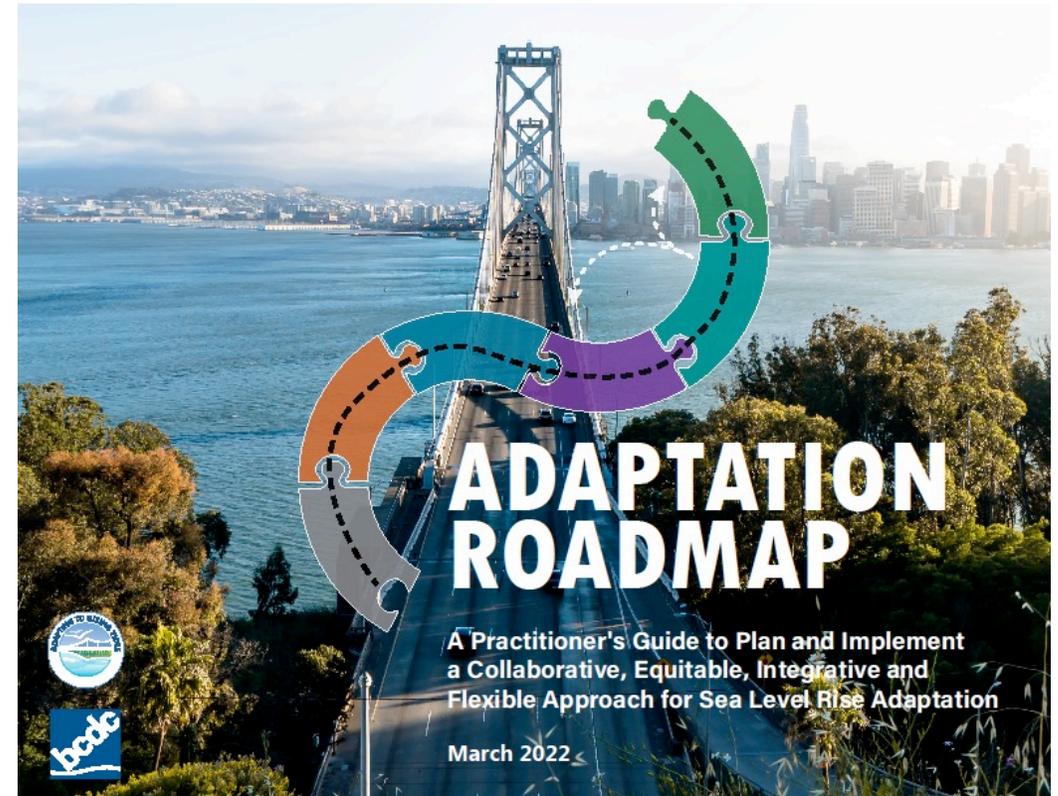


Adaptation Roadmap: a practitioner's guide



- Six-chapter organizational framework
- Six corresponding Workbooks to help users reach desired outcomes
- Can be used in part or in whole
- View the Adaptation Roadmap at:

www.adaptingtorisingtides.org/projects/adaptation-roadmap



Thank you!



Contact

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Bay Conservation and Development

Commission

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