



Elevating Action-Oriented Strategies: The San Diego Region Coastal Resilience Roadmap







SESSION AGENDA

- 1. Overview & Introduction to Roadmap 20 mins.

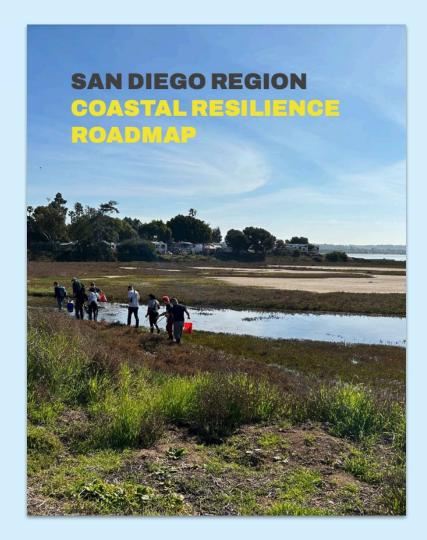
 Darbi Berry | San Diego Regional Climate Collaborative
- 2. Regional Implications & Impact 10 mins.

 Meagan Openshaw | City of Imperial Beach
- 3. Understanding Regional Readiness 10 mins.

 Anna Friedman | Resilient Cities Catalyst
- 4. Audience Q&A 15 mins.
- 5. Regional Readiness Worksheet Activity 15 mins.
- 6. Group Share Out 10 mins.
- 7. Closing Thoughts 10 mins.

INTRODUCING THE ROADMAP

By working collectively, and ensuring that coastal resilience projects are designed, financed, and built through our work together, we can continue to ensure a high quality of life for all San Diegans.



ROADMAP DEVELOPMENT



FEEDBACK

REGIONAL COASTAL RESILIENCE AMBASSADORS PROGRAM



DEVELOPMENT





CONTEXTUALIZING





NETWORK ANALYSIS

REGIONAL ENGAGEMENT



18 REGIONAL COASTAL RESILIENCE AMBASSADORS

engaged throughout Roadmap development



WORKSHOPS

to support Roadmap development



FOCUS GROUPS

40 total participants



ONE-ON-ONE INTERVIEWS
with experts and partners

ADDITIONAL ENGAGEMENT REACHED PRACTITIONERS THROUGH EXISTING CHANNELS



ALLIANCE OF REGIONAL COLLABORATIVES FOR CLIMATE ADAPTATION (ARCCA) MEETING

engagement of ARCCA network partners



SDRCC SEA LEVEL RISE WORKING GROUP

4 meetings held, with over 65 people engaged

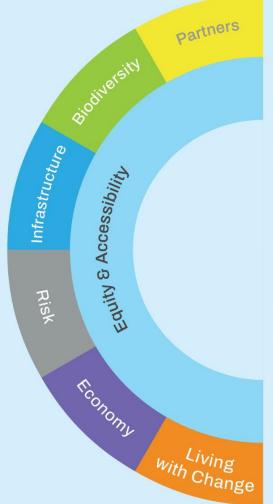


CONVENING OF PRACTITIONERS

working across the Oceanside Littoral Cell, reaching 22 participants

ROADMAP STRUCTURE

Th Roadmap features
76 Actions to advance
30 Goals organized across
6 Principles with equity and accessibility as a crosscutting theme.



Principle 1 Support and Connect Empowered Partners throughout the Region to Lead the Way in Driving towards Collective Goals

Principle 2 Increase Biodiversity of San Diego's Coastal Ecosystems

Principle 3 Design and Build Infrastructure to Strengthen Coastal Resilience across the San Diego Region, including in both Coastal and Inland Communities

Principle 4 Model Tools for Understanding Risk, and Test Solutions that Mitigate Vulnerability to Future Hazards while Increasing Community Preparedness

Principle 5 Grow an Innovative, Equity-Driven Climate Economy through Workforce Development, Capacity Building, Policy, and Systems Change

Principle 6 Center
Approaches to
Community Resilience
around the Persistent
Confrontation with Loss
and Trauma in Living with
Changing Coastal
Landscapes



PRINCIPLE 1: PARTNERS

Support and Connect Empowered Partners throughout the Region to Lead the Way in Driving towards Collective Goals



PRINCIPLE 1: PARTNERS

01	Foster greater connectivity and cohesion among inland and coastal communities
02	Harness the region's vibrant philanthropies and institutions more effectively to meet shared community coastal resilience agenda
03	Support partners in navigating green tape and other regulatory hurdles to smooth the pathway in implementing prioritized projects
04	Ensure all communities have access to capacity-building, tools, and resources to develop coastal actions and advocate for their vision for the coastline
05	Clarify roles and ensure coordination among local, regional, state, and Tribal actors around projects, knowledge sharing, and funding
06	Increase access to funding and financing for promising pilot projects, including through blended and innovative funding models



PRINCIPLE 2: BIODIVERSITY

Increase Biodiversity of San Diego's Coastal Ecosystems



PRINCIPLE 2: **BIODIVERSITY**

Center conservation practices in tribal ecological knowledge Strengthen understanding of project impacts on organisms and ecosystems to support decision making Foster multi-jurisdictional partnerships to enable the consideration of land and green spaces at the bioregion scale Encourage new nature-based solutions through rapid development of pilot projects that integrate and share research Restore estuarine, coastal, and inland ecosystems



PRINCIPLE 3: INFRASTRUCTURE

esignand Build Infrastructure to Strengthen Coastal Resilience across the San Diego Region, including in both **Coastal and Inland Communities**



PRINCIPLE 3: INFRASTRUCTURE

STRUCTURE MARKET	01	Increase equitable access to coastal open spaces including strategies to enhance multi-modal and public transportation
	02	Accelerate implementation of multi-benefit infrastructure projects such as cooling, flood protection, and increased access to open space
	03	Support integrated water management strategies that serve all communities across the region and are sustainable over the long term
	04	Support increased coordination that leads to investments in coastal flood protection, adaptation, and managed retreat
	05	Increase energy redundancy and reliability through grid resilience
	06	Advance policies and projects that reduce exposure of critical infrastructure, including housing, in vulnerable coastal zones

PRINCIPLE 4: RISK

Model Tools for Understanding Risk, and Test Solutions that Mitigate Vulnerability to Future Hazards while Increasing Community Preparedness

9

PRINCIPLE 4: RISK

Use policy tools, innovative funding strategies, and incentives to 01 channel development towards areas less vulnerable to climate hazards 02 Support more regular and granular risk and scenario modeling Develop models and communication tools to increase shared 03 understanding of risks and opportunities Pilot and test new financial mechanisms that transfer risk and more fully 04capture environmental, social, and other costs and benefits 05 Cultivate spaces for cross-sector dialogue and coordination



PRINCIPLE 5: **ECONOMY**





PRINCIPLE 5: ECONOMY





PRINCIPLE 6: LIVING WITH CHANGE

Center Approaches to **Community Resilience around** the Persistent Confrontation with Loss and Trauma in Living with **Changing Coastal Landscapes**



PRINCIPLE 6: LIVING WITH CHANGE

Increase awareness of a pluralistic history of the region that re-centers the indigenous relationship to the coast Foster a shared science-based understanding and recognition of both the threat of climate change and the range of alternatives for adaptation Increase access to services, spaces for dialogue, and other resources that 03 promote well being, including through an understanding of the role of the coast as a place for both healing and persistent confrontation with climate uncertainty Mobilize San Diego's youth as continued future advocates and stewards for the coast

HOW TO READ AN ACTION

The Roadmap features **76 Actions**, organized by Principle and Goal.

We invite residents, institutions, and organizations across the region to identify Actions that resonate with your work and explore how you can support, scale, or amplify these efforts.

TAGLINE: A brief summary of the Action.





SHOCKS AND STRESSES:

Which primary shocks and stresses the Action aims to address.



SCALE:

The breadth of impact for who the Action will reach, from one specific community, to a local or regional jurisdiction, to an ecosystem, to the San Diego region, or beyond.



ACTION STATUS:

Stage of implementation, ranging from planned to underway to piloted and ready to scale to proposed.



TIMEFRAME:

Timeline for implementation, ranging from short (less than 1 year), to medium (1 to 5 years), to long (more than 5 years).



PROJECT OWNER:

The entity or organization that is primarily responsible for leading the Action.

ACTION DESCRIPTION:

Context that explains why the Action is needed to meet Roadmap goals along with additional details related to partners, key activities, and next steps.

REGIONAL IMPLICATIONS & IMPACT

Meagan Openshaw | City of Imperial Beach

PRINCIPLE 3: INFRASTRUCTURE

ACTION 2.1



Transform an existing segment of coastal access bikeway into a flagship resilience corridor.

UNDERSTANDING REGIONAL READINESS

Anna Friedman | Resilient Cities Catalyst

LESSONS LEARNED

What should other regions consider in exploring similar processes?

READINESS CONDITIONS

- ★ Identify a project team with robust understanding of the region: leadership of SDRCC given history, role, partnerships across the region
- ★ Incorporate reciprocal relationships: ability to collaborate across multiple touchpoints with partners drove an inclusive process
- Connect to past (and parallel) planning efforts: building upon, and complementing, existing efforts builds momentum for action

LESSONS LEARNED

What should other regions consider in exploring similar processes?

ROADMAP DEVELOPMENT

- ★ Do your homework before engaging stakeholders: analysis of documents and plans laid groundwork for respectful and productive workshops
- ★ Focus on foundational principles to establish a shared vision: developing this vision with RCRA cohort fostered co-ownership and laid early groundwork
- ★ Elevate existing and planned projects: a mix builds momentum, driving additional support for existing projects, & filling gaps with new actions

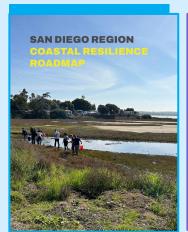
LESSONS LEARNED

What should other regions consider in exploring similar processes?

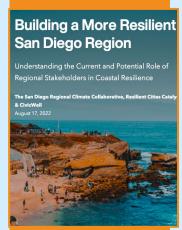
TOWARDS OUTCOMES

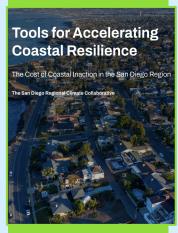
- Maximize usability of the roadmap beyond the report itself: not just a PDF, a dynamic tool can drive buy-in for priority projects and attract investments
- ★ Repurpose findings to develop additional tools: Actions Database emerged as a priority regional need so team pivoted to develop this resource
- Identify lead coordinator to advance next steps: roles include accelerating implementation, tracking progress, fostering collaboration

ROADMAP RESOURCES



Principle		Action Title
Partners & Governance	•	Working Group Collaboration
Partners & Governance	*	Equity-First Decision Making
Partners & Governance	•	Binational Resilience Initiative
Partners & Governance	*	Climate Funders' Collaborative
Partners & Governance	•	Catalyzing Philanthropy
Partners & Governance	*	Warehousing Shoreline Monitoring
Partners & Governance	•	Coastal Project Pre-Permitting
Partners & Governance	•	Regional Beach Sand Replenishment
Partners & Governance	•	Sea Level Rise Research
Partners & Governance	•	Regional Shoreline Monitoring Progra
Partners & Governance	•	Regional Resilience Framework
Partners & Governance	*	Comprehensive Vulnerability Assessr
Partners & Governance	*	Tribal Partnership
Partners & Governance	•	Prioritizing Inter-Agency Cooperation
Partners & Governance	•	Military Installation Resilience
Partners & Governance	•	Project and Pilot Mapping
Partners & Governance	-	Sub-Regional Collaboration
Biodiversity	-	Tribal Ecological Knowledge
Biodiversity	•	Native Planting
Biodiversity	•	Quantifying the value of biodiversity







the successful implementation of the Roadmap.

Regional Roadmap Actions Database

Network Analysis StoryMap Cost of Inaction Toolkit

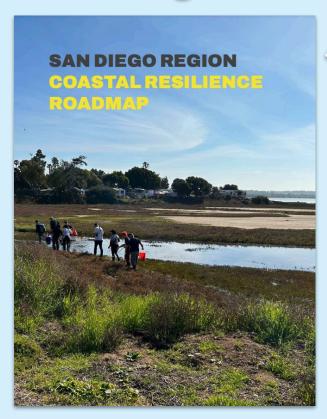
Case Study

Climate
Oscillorerithe
Oscillorerith

QUESTIONS?

REGIONAL READINESS WORKSHEET ACTIVITY

Thankyou!



We invite you to dive into the Roadmap and our companion resources at:

bit.ly/SD-Roadmap

