



rincon

RINCON CONSULTANTS, INC.

Environmental Scientists | Planners | Engineers

City of Carmel-by-the-Sea

Potential Climate Adaptation Goals, Policies, and Actions

Climate Committee Meeting

Vulnerability Assessment

- Carmel-by-the-Sea is experiencing and will continue to experience
 - Stronger storms
 - Increased wildfire risk
 - Sea level rise
 - Extended drought conditions
 - Increased temperature



Vulnerability Assessment

Color coding: Already causing observable impacts or a near-term significant risk
 Mid- to long-range impacts
 Not enough data

YES Some policy/action initiated
 NO No policy/action initiated

- Identified gaps
- Opportunities to build on existing adaptation strategies

Priority Assets at Risk	Priority Hazards						
	Stronger Storms	Wildfires	Sea Level Rise	More Droughts	Increased Temperature	Fog changes	Ocean Warming
Natural Assets							
Mission Trail Nature Preserve	YES	YES	X	YES	YES	X	
North Dunes			NO	YES	YES	X	
Urban Forest	YES	NO		YES	NO	X	
Marine Sanctuary	X			X	X	X	X
Carmel Beach	YES		YES			X	X
Community							
Elderly population and people with disabilities	NO	NO		NO	NO		
Residents	YES	YES		YES	NO		
Visitors	NO	NO					X
Local Businesses	NO	NO	NO	YES	NO		X
Service industry workers	NO	NO	NO		NO		
Second homes	YES	YES	NO				

Potential Adaptation Strategies Table

- Structure
 - Goals – Broad statements describing community desires
 - Policies – Specific position statements that support the achievement of goals and serve as guides to the City when making decisions
 - Actions – Specific methods to implement and achieve policies and goals.



Potential Adaptation Strategies Table

■ Action Sources

- Carmel-by-the-Sea Vulnerability Assessment
- State/Regional Plans
 - Safeguarding California Plan: 2018 Update, California's Climate Adaptation Strategy, California Natural Resources Agency
 - Southern California Adaptation Planning Guide
 - Appendix F – General Plan and Local Coastal Plan Model Policies
 - Appendix B – Matrix of Adaptation Strategies and Actions
- Local Plans and Ordinances
 - Pacifica All-Electric Reach Code
 - Berkeley Existing Building Electrification Strategy



Safeguarding California Plan:
2018 Update

California's Climate Adaptation Strategy | January 2018



Principles for Implementable Actions

6 principles to consider when selecting adaptation actions

1. Measurable increase in resilience
2. Institutional structures
3. Funding
4. Engagement
5. Partnership
6. Equity



Photo by [Adomas Aleno](#) on [Unsplash](#)

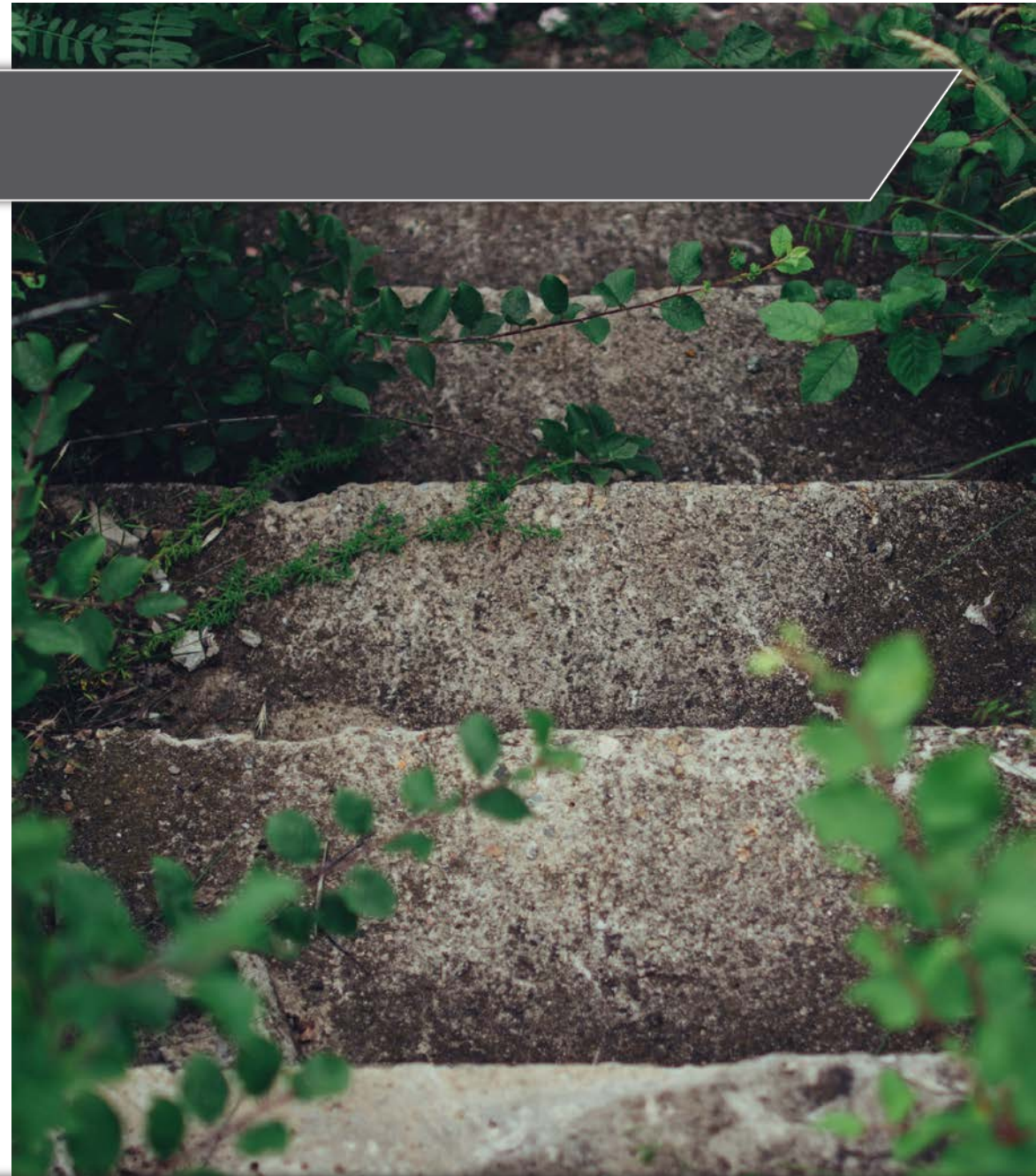
Potential Adaptation Strategies Table

City of Carmel-by-the-Sea Potential Adaptation Strategies

Goal/Policy/Action	Climate Hazard	Asset	Potential Metric	Timeframe	Potential Lead	Cost	Source
Goal 1. A Healthy, Safe, and Resilient Community							
Policy 1.1. Provide effective emergency preparedness and response following a climate-related disaster							
Adapted from the Southern California Adaptation Planning Guide, Appendix F - General Plan and Local Coastal Plan Model Policies							
Action 1.1.1. Improve Emergency Preparedness. Incorporate climate change risk and impact considerations into Carmel CERT programming and materials, to promote emergency preparedness at a neighborhood block-by-block scale.	All	Residents, Local Businesses, Second Homes	# of block captains formed	TBD	TBD	TBD	Adapted from the Southern California Adaptation Planning Guide, Appendix B Matrix of Adaptation Strategies and Actions

Next Steps

- **Collect** comments from Climate Committee before the October meeting
- **Refine** the goals, policies and actions based on comments
- **Present** the refined list at the public workshop on November 18th



Thank you for
your time!

Questions?

rincon



Extra Slides

rincon



ICARP

Adaptation Visions and Principles



All people and communities respond to changing average conditions, shocks, and stresses in a manner that minimizes risks to public health, safety, and economic disruption and maximizes equity and protection of the most vulnerable.

Natural systems adjust and maintain functioning ecosystems in the face of change.

Infrastructure and built systems withstand changing conditions and shocks, including changes in climate, while continuing to provide essential services.

City of Carmel-by-the-Sea

Adaptation Goals



Goal 1. A Healthy, Safe, and Resilient Community

Goal 2. A Natural Environment Resilient to Climate Hazards

Goal 3. Resilient Infrastructure and Built Environment