

Scoping Out an Adaptation Process That's Right For Your Community

Brian Holland: Director of Climate Programs, ICLEI

- Oversees the development of ICLEI's climate mitigation and climate adaptation programs
- Prior work addressed a broad spectrum of climate concerns- sea level rise adaptation, emissions inventories, climate action planning, transportation strategies, and carbon markets
- Lead Author on the forthcoming National Climate Assessment
- Leading the Resilient Communities for America Agreement campaign, to be launched in Summer 2013.

ICLEI Mission



Our mission is to build, serve and drive a movement of local governments to advance deep reductions in greenhouse gas emissions and achieve tangible improvements in local sustainability.

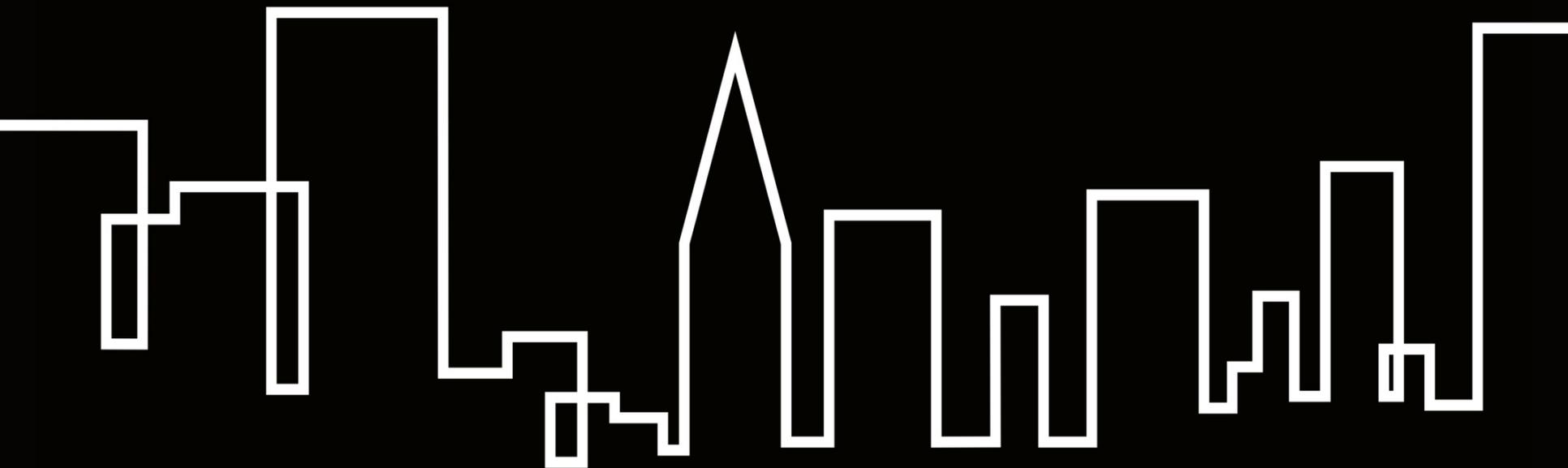


The ICLEI Network

- Global network of 1,000+ local governments leading on climate change
- ICLEI USA – 400+ members, representing around 20% of U.S. population
- Increasing Focus on Resilience
 - 2012**
 - *San Diego Bay Sea Level Rise Adaptation Strategy*
 - *AdaptLA*
 - *Earth Hour City Challenge trainings / tools*
 - *City-Insurer Workshops*
 - *Resilient Communities for America Agreement*



Getting Started with Climate Adaptation: Scoping Guide



EARTH HOUR CITY CHALLENGE



Scoping – A Step Before the First Step

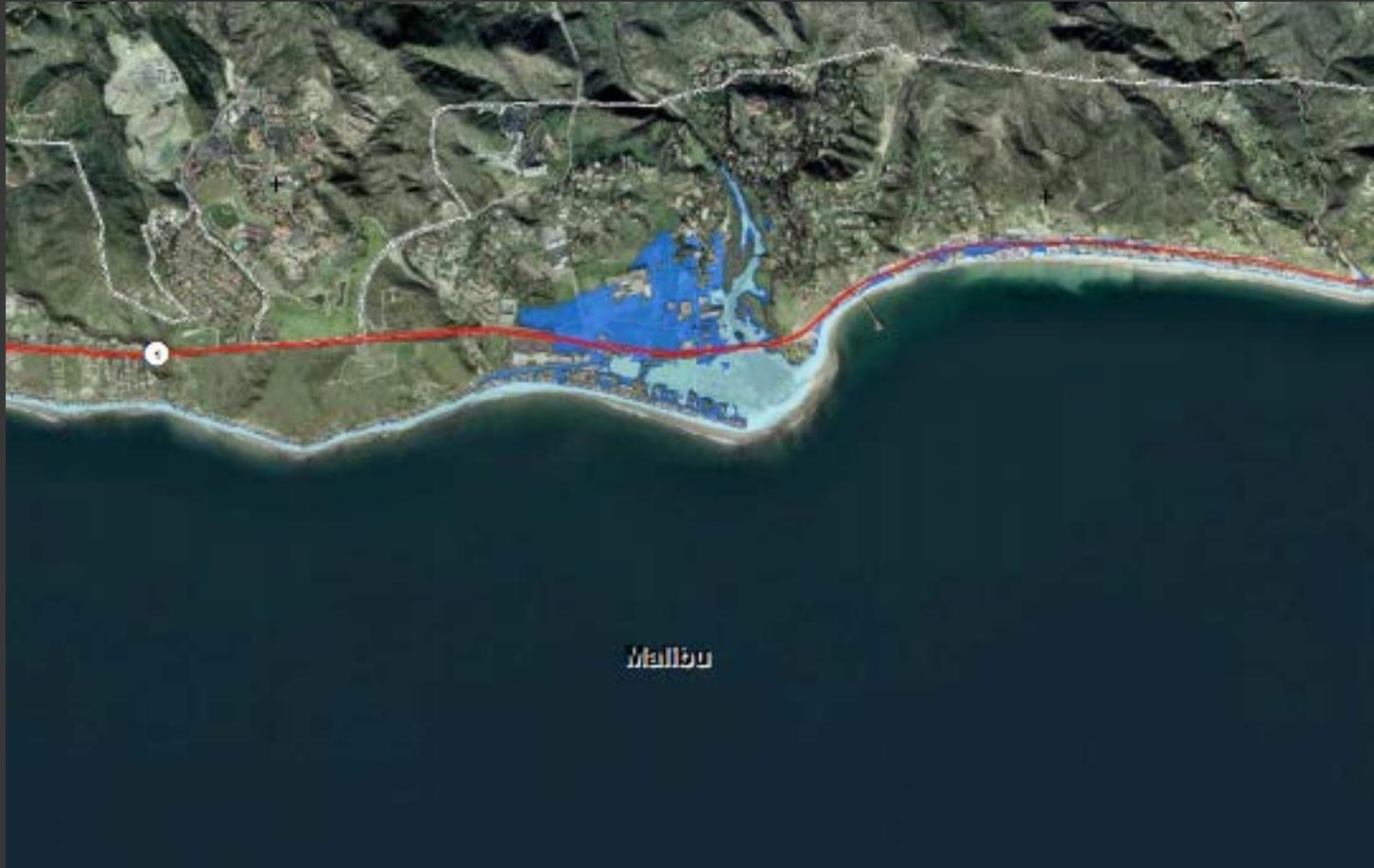


Scoping Guide: Help answering the Q's:

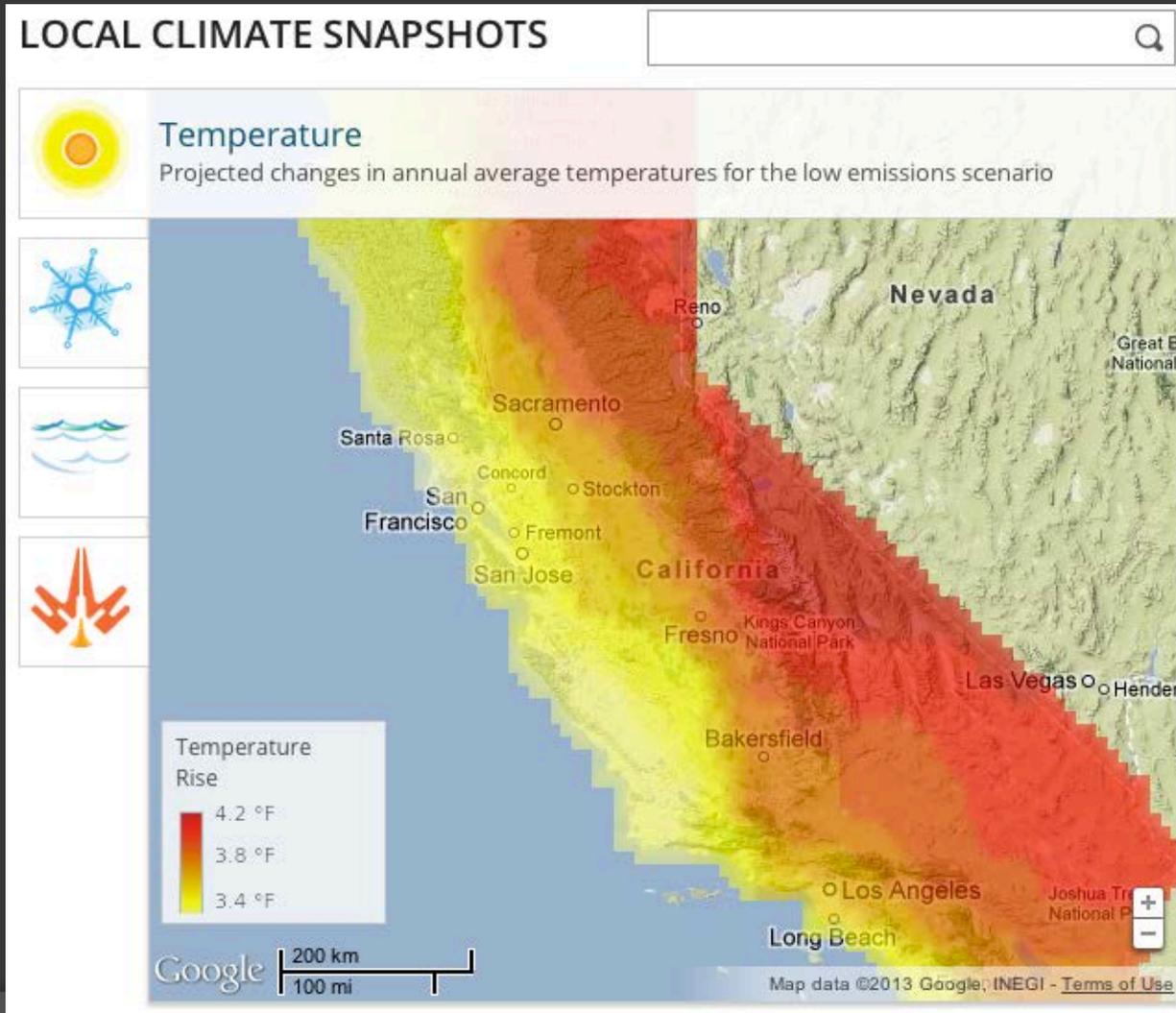
- Should we create a new process, or tie into an existing one? (*hazard mitigation, land use planning, etc.*)
- Should we look at all climate risks to our community, or focus on a subset?
- What community assets or sectors should we include in our assessments and plans?
- What stakeholders and technical advisors should we involve?
- Should we focus on extreme events or incremental climate trends, or both?
- How could the following affect the scope of our adaptation work?
 - Data availability
 - Recent extreme events
 - Stakeholder input

Free Resources- Pacific Institute

Hazard Maps



Free Resources- CalAdapt



Free Resources- Pacific Institute

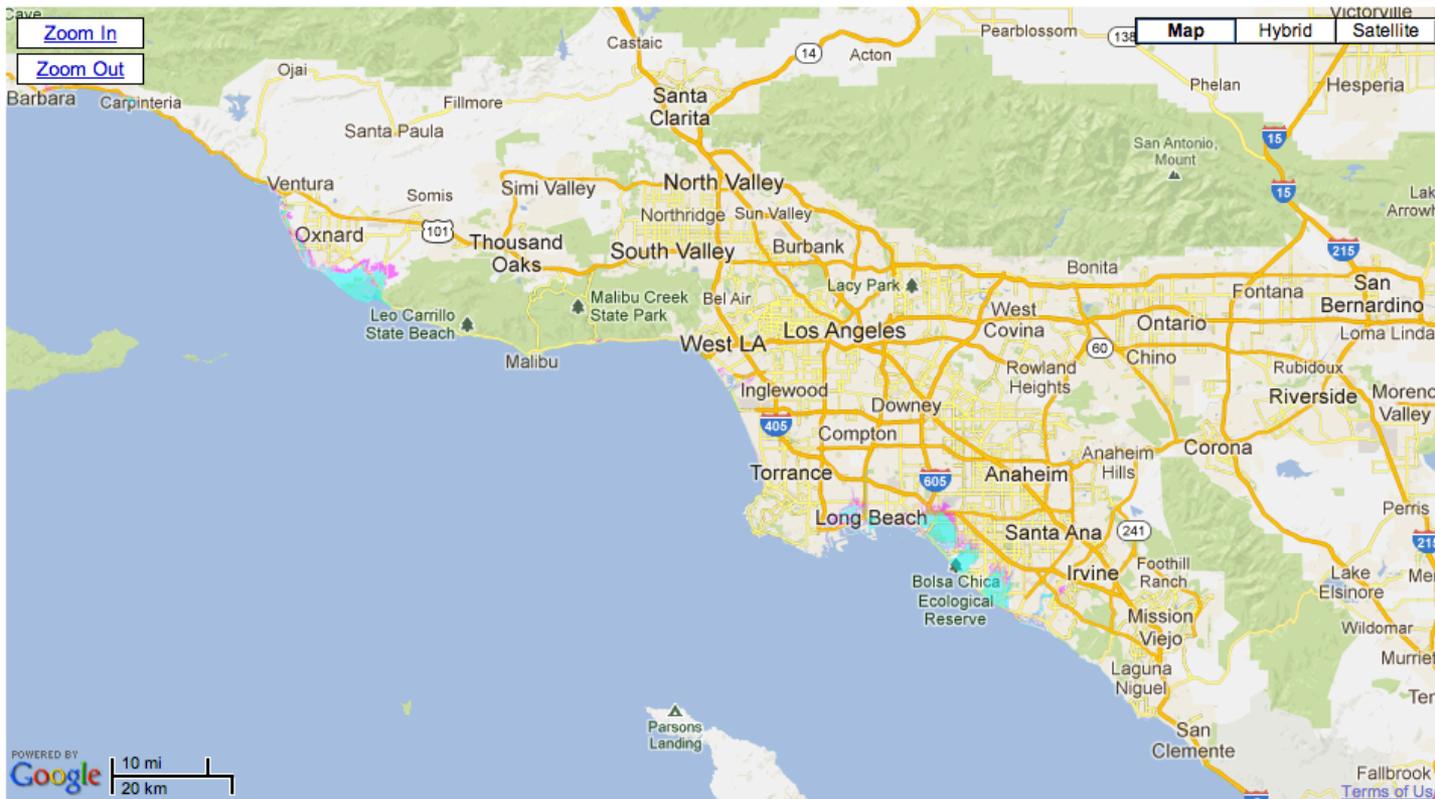
Interactive Map of Coastal Flood & Erosion Hazard Zones

Impacts of Sea Level Rise on the California Coast



Areas and infrastructure vulnerable to flooding and erosion

Please see [full report](#) for assumptions, methods, and conclusions.



Hazard Zones

- [Area at risk from a 100-year coastal flood event](#)
 - Current area at risk
 - Area at risk with a 1.4 meter sea-level rise
- [Erosion](#)
 - Area at risk from erosion in 2100 with a 1.4 meter sea-level rise
- [Wetland Frontier](#)
 - Areas where wetlands may migrate by 2100 if unimpeded

Data Layer Opacity

- 1/4 1/2 3/4 Solid

Infrastructure at Risk

Click map icon for details

- [CA Coastal Zone](#)
- Health-care facilities
- Schools
- Police stations
- Fire stations

Free Resources- Pacific Institute

Sea-Level Rise Thematic Maps

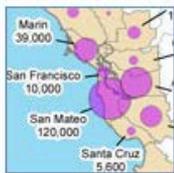


Figure 16: Vulnerable Population (296 K)



Figure 19: Vulnerable Roadways (123 K)

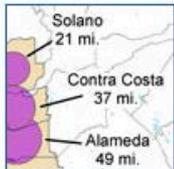


Figure 20: Railroads (185 K)



Figure 21: Electric Power Plants, California (442 K)

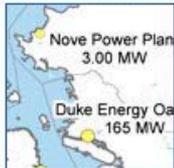


Figure 22: Electric Power Plants, San Francisco Bay Area (384 K)



Figure 23: Electric Power Plants, Southern California (182 K)

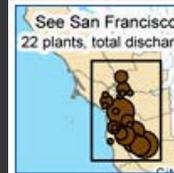


Figure 24: Wastewater Treatment Plants, California (258 K)



Figure 25: Wastewater Treatment Plants, San Francisco Bay Area (273 K)



Figure 26: Existing coastal wetlands (306 K)



Figure 27: Viability of potential coastal wetland migration area, Northern California (157 K)



Figure 28: Viability of potential coastal wetland migration area, San Francisco (210 K)

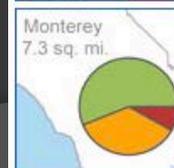
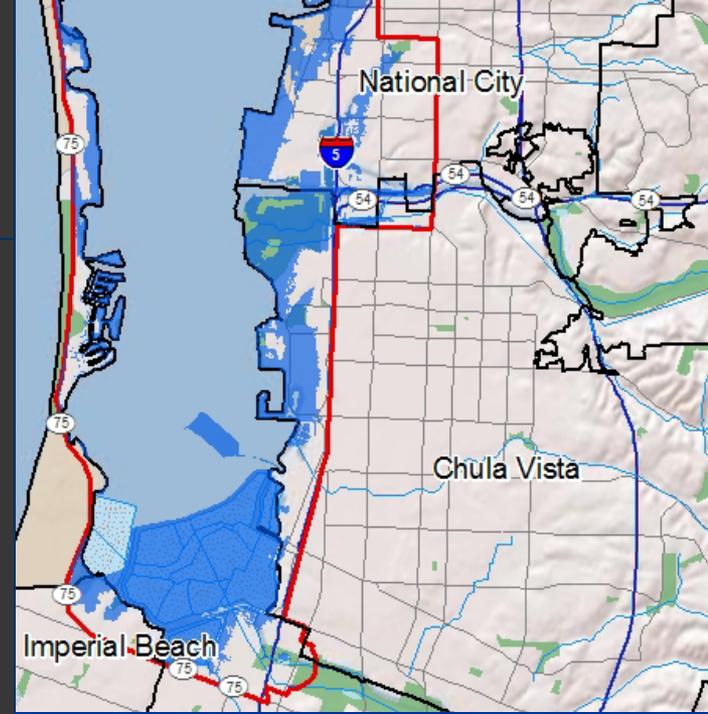


Figure 29: Viability of potential coastal wetland migration area, Central California (130 K)

Initial Implementation

- *Grading Ordinance*
Accommodate 50 yrs of SLR
- *Emergency Operations Plan*
Extreme weather component
- *Shade Tree Policy*
50% shade cover in parking lots
- *Housing Element (draft)*
Resilient design & construction
- *Public Education & Outreach*
Air quality alerts



Source: Brendan Reed, City of Chula Vista