



Climate Adaptation in General Plans

CA Department of Insurance
Climate Insurance Working Group

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General Plan Elements

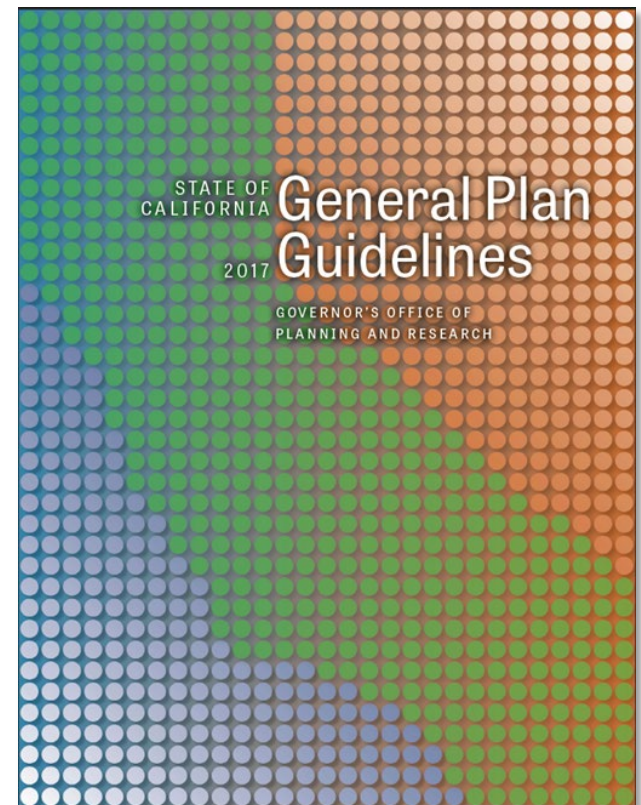
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Required Elements

- Land Use
- Circulation
- Housing
- Conservation
- Open Space
- Noise
- **Safety**
- Air Quality*
- Environmental Justice*

Topical Considerations

- **Climate Change**
- Public Health
- Equity
- **Resilience**
- Economic Development





Safety Element Overview

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- Natural hazards: wildfire, flooding, earthquake, others
- Must identify “**unreasonable risks** and **policies for the protection of the community from such risks**” (Gov’t Code 65302(g)(1))
- Additional Requirements and Relationship to Other Plans:
 - ▣ **Climate Adaptation (SB 379, SB 1035)**
 - ▣ Local Hazard Mitigation Plans (LHMPs)
 - ▣ Community Wildfire Protection Plans, Flood Protection Plans, etc.
- Linkages with mandatory elements or other topics
 - ▣ Land Use, Circulation, Conservation, Open Space, Environmental Justice, others



Safety Element: Climate Adaptation

- **SB 379 (2015)** – safety element must address **climate vulnerability and adaptation**
 - ▣ Timing: upon next update to the local hazard mitigation plan on or after January 1, 2017; or, by January 1, 2022 if no local hazard mitigation plan.
 - ▣ OK to incorporate other plans by reference

- **SB 1035 (2018)** - added regular review and update to flood, fire hazards, and climate adaptation portions of the safety element
 - ▣ Timing: housing element update every 8 years



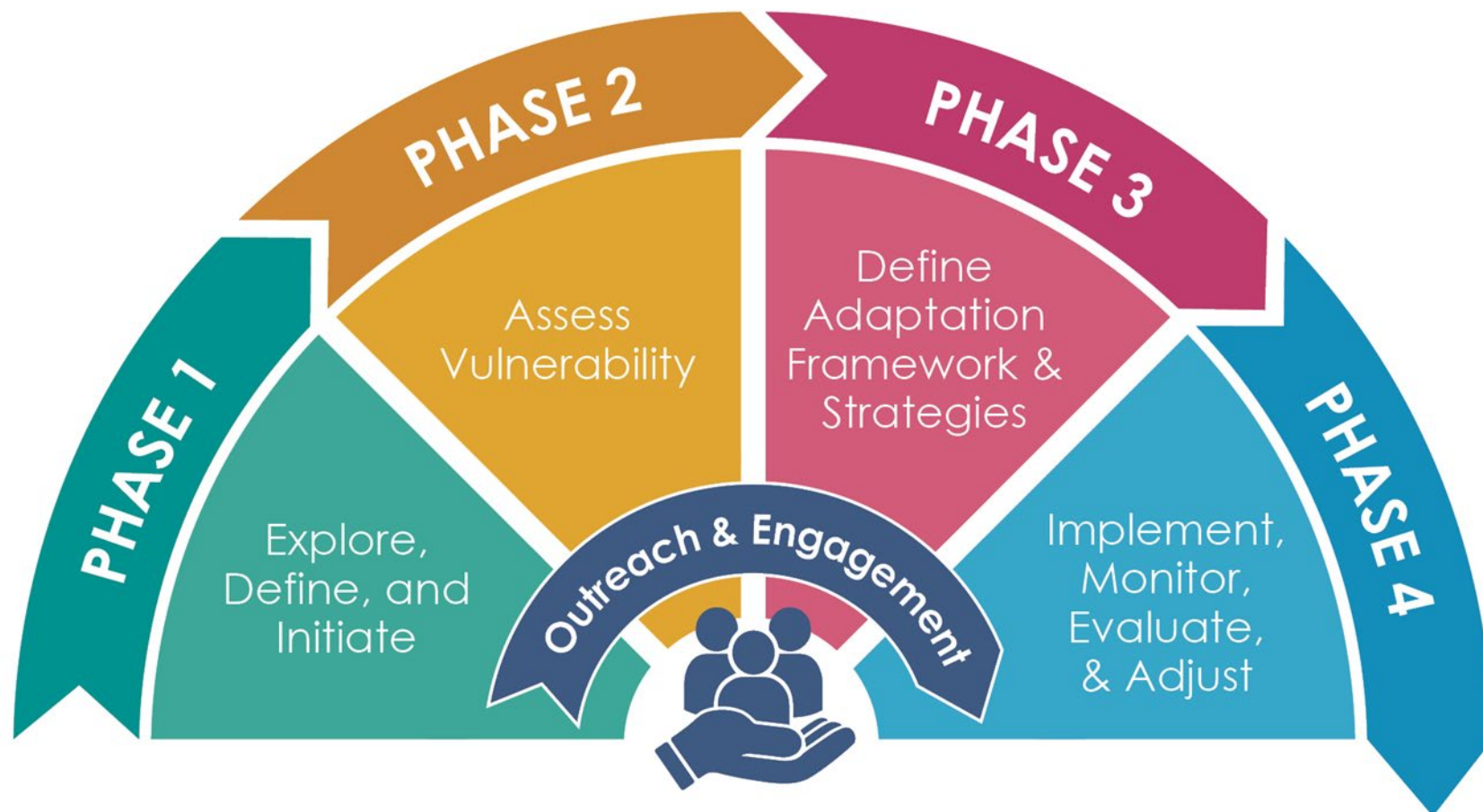
Safety Element - Adaptation

What does SB 379 require?

- A. A **vulnerability assessment** that identifies the risks that climate change poses to the local jurisdiction and the geographic areas at risk from climate change impacts, including (but not limited to) an assessment of how climate change may affect the risks identified in the safety element
- B. **Adaptation and resilience goals, policies, and objectives** based on the findings of the vulnerability assessment
- C. Feasible **implementation measures** designed to carry out the goals, policies, and objectives

Adaptation Planning Process

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Source: *California Adaptation Planning Guide 2.0*



Vulnerability Assessment

- How will climate change affect my jurisdiction?
 - ▣ Historical data on natural events and hazards
 - ▣ Vulnerability maps and areas that have repetitive loss
 - ▣ Climate exposure data (e.g., Cal-Adapt)
- What assets, resources and populations are sensitive to various climate change impacts?
 - ▣ Existing and planned development in at-risk areas?
- Current status of climate change preparedness and adaptive capacity?



Adaptation Goals, Policies, Implementation

- ❑ How will my jurisdiction reduce climate-related risks to people, assets, and natural resources with new land use decisions?
- ❑ How will climate adaptation and resilience measures be incorporated into proposed development?
- ❑ Where are our existing at-risk and resilient critical facilities?
- ❑ How can existing buildings and development be made resilient and protect health and safety?
- ❑ How will our jurisdiction partner or collaborate with other local, regional, state, and federal agencies?
- ❑ What natural infrastructure options should be prioritized?



Integrating Other Plans and Funding

OK to use existing plans for SB 379 / SB 1035 compliance

- ❑ Examples: climate adaptation plan, climate action plan, LHMP, or other plans may be used.
- ❑ Incorporation existing plan by reference, or direct incorporation of content, or both are all acceptable.
- ❑ Other plans must be consistent with statutory safety element requirements.

AB 2140: LHMP + Safety Element

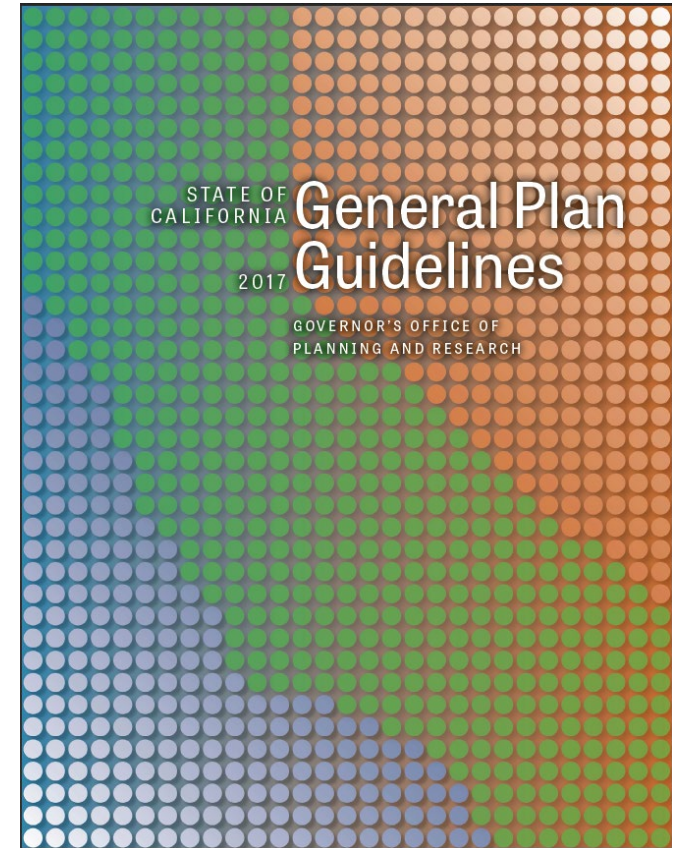
- ❑ LHMPs may be incorporated by reference into Safety Element
 - Eligibility for disaster mitigation funding: CA Disaster Assistance Act will cover local share of the 25% non-federal portion of FEMA-funded projects
- ❑ Opportunity for alignment of SB 379 adaptation updates with LHMP and other Safety Element updates



Adaptation Planning Resources

General Plan Guidelines (2017)

- Chapter 4: Required Elements
 - ▣ Safety Element
 - ▣ Environmental Justice
- Chapter 3: Community Engagement and Outreach
- Chapter 5: Equitable and Resilient Communities
- Chapter 6: Healthy Communities





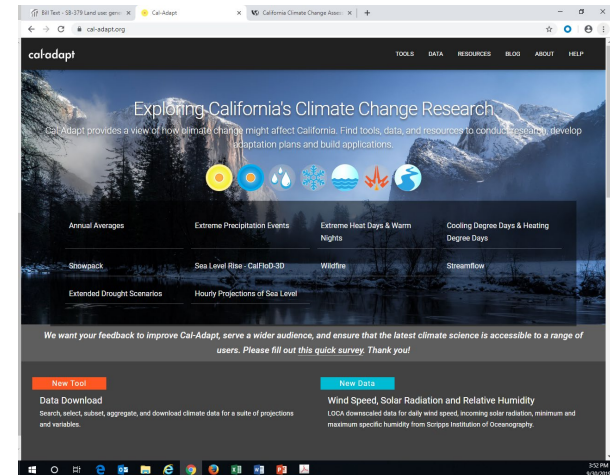
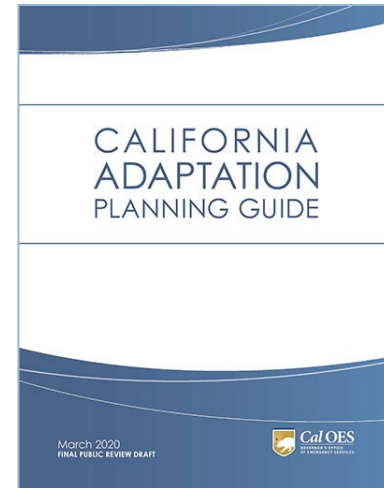
Adaptation Planning Resources

Adaptation Planning Guide

- Governor's Office of Emergency Services (OES), OPR, and others
- Version 2.0 to be finalized soon

Cal-Adapt (cal-adapt.org)

- Online tool for viewing and obtaining downscaled climate change data and related datasets
- UC Berkeley Geospatial Innovation Facility, funded by CA Energy Commission





Adaptation Planning Resources

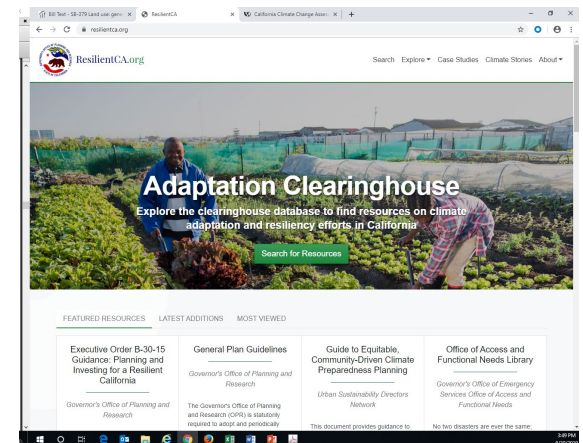
California's Fourth Climate Change Assessment

- www.climateassessment.ca.gov/



Adaptation Clearinghouse

- resilientca.org
- Managed by OPR under the Integrated Climate Adaptation and Resilience Program (ICARP)





Thank You

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