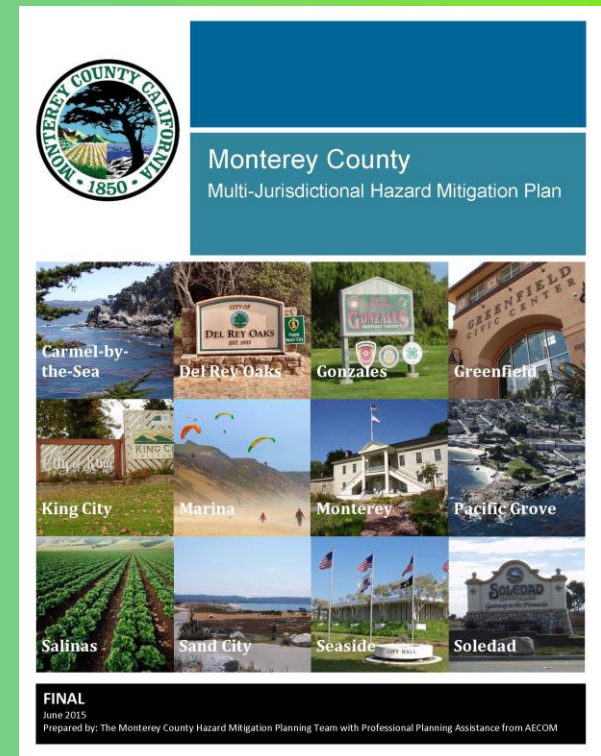


Monterey County Multi-jurisdictional Hazard Mitigation Plan 2015

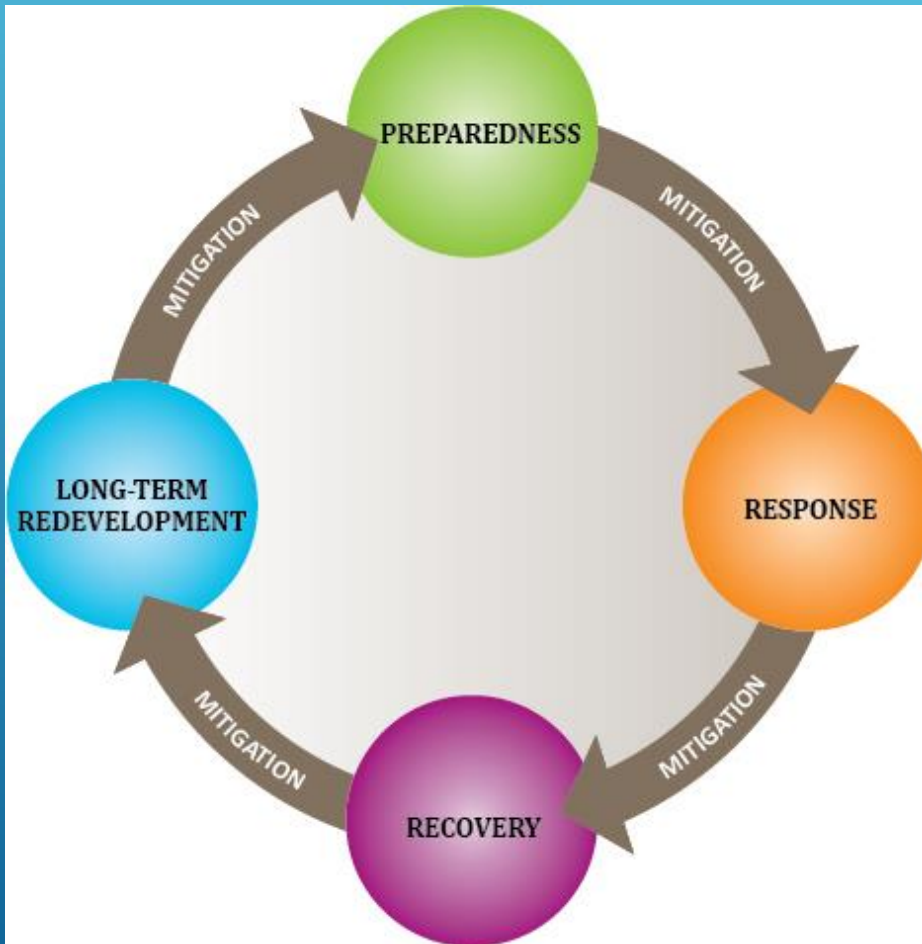
Presented By:

Sherrie Collins, CEM
County of Monterey OES



AECOM

WHAT DO WE MEAN BY HAZARD MITIGATION?

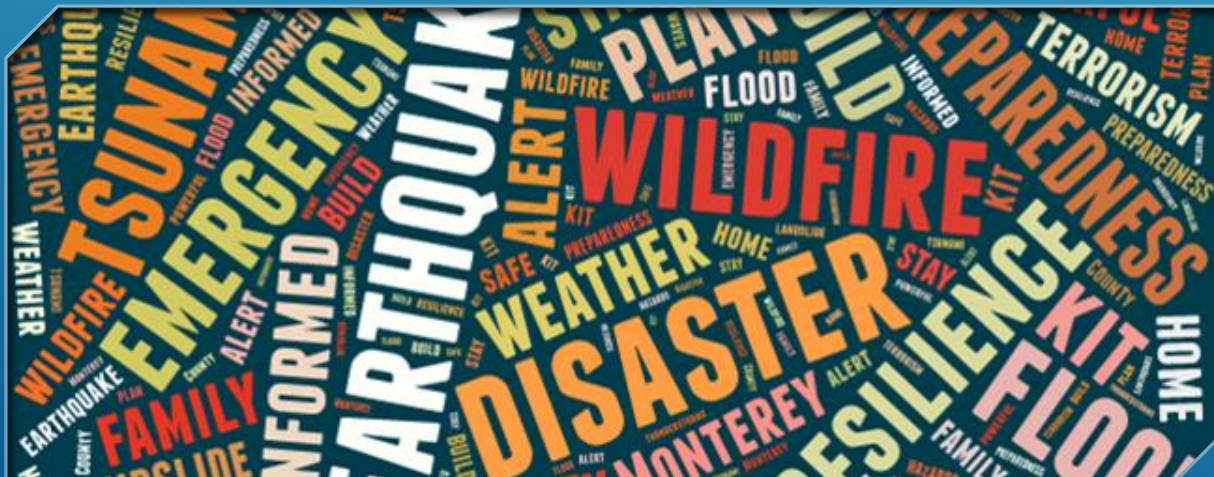


**Hazard Mitigation = Disaster
Impact Reduction**

Mitigation is an ongoing activity that occurs *throughout* the emergency management cycle...

WHAT IS A HAZARD MITIGATION PLAN?

A mitigation plan establishes a broad local vision and guiding principles for reducing hazard risk, and proposes specific mitigation actions to eliminate or reduce identified vulnerabilities



TYPES OF HAZARD MITIGATION ACTIVITIES

- ▶ **Local Plans and Regulations**

- ▶ Government authorities, policies, or codes that influence the way land and buildings are developed and built.

- ▶ **Structure and Infrastructure Projects**

- ▶ Modifying existing buildings and infrastructure to protect them from a hazard or remove them from a hazard area. Also includes projects to construct manmade structures to reduce the impact of hazards.

- ▶ **Natural Systems Protection**

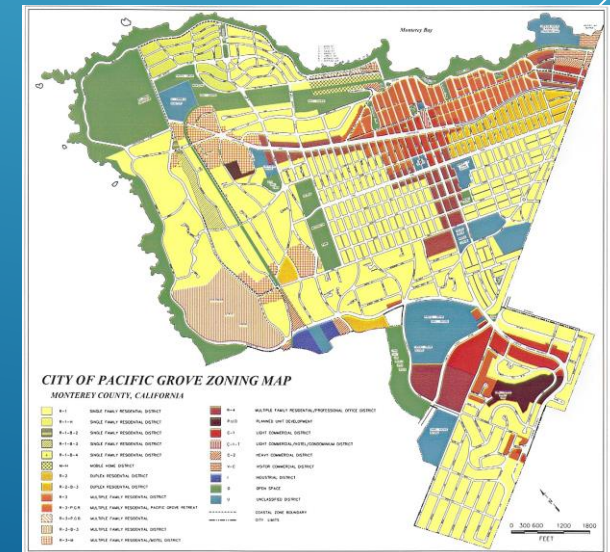
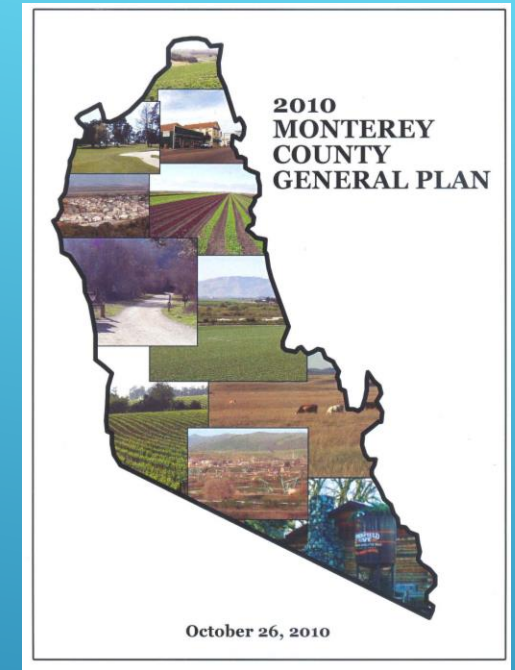
- ▶ Actions that minimize damage by preserving or restoring functions of natural systems (such as dunes, floodplains, forest management; and wetlands).

- ▶ **Education and Awareness Programs**

- ▶ Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them.

EXAMPLES – LOCAL PLANS AND REGULATIONS

- ▶ General plans
- ▶ Zoning ordinances
- ▶ Subdivision regulations
- ▶ Building codes
- ▶ Capital improvement programs



EXAMPLES – STRUCTURE AND INFRASTRUCTURE PROJECTS

- ▶ Acquisition, relocation or elevation of flood-prone structures
- ▶ Seismic retrofitting of older structures
- ▶ Hardening critical facilities
- ▶ Strengthening roads and bridges
- ▶ Burying utility lines
- ▶ Stormwater diversion, retention or detention
- ▶ Levees and floodwalls



EXAMPLES – NATURAL SYSTEMS PROTECTION

- ▶ Floodplain protection
- ▶ Wetlands preservation
- ▶ Coastal or riverine setbacks
- ▶ Sediment and erosion control
- ▶ Forest and vegetative management
- ▶ Stream corridor restoration



EXAMPLES – EDUCATION AND AWARENESS PROGRAMS

- ▶ Risk communication
- ▶ Websites with maps & information
- ▶ Radio or television spots
- ▶ Real estate disclosure
- ▶ Presentations to school groups or neighborhood organizations
- ▶ Community outreach projects
- ▶ Training courses



WHY PLAN FOR HAZARD MITIGATION?

Protect life and property

Minimize economic losses

Enhance community resiliency and sustainability

Reduce burden on local governments, and taxpayers

Break the cycle of repetitive disaster damages

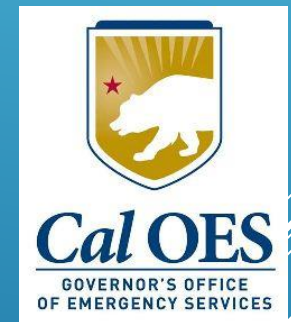
Speed disaster recovery and redevelopment

Integrate hazard mitigation with other local planning and decision-making activities

To comply with federal and state requirements, and to qualify for additional grant funding

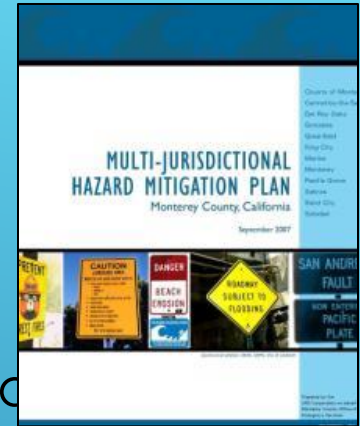
WHY PLAN FOR HAZARD MITIGATION?

- ▶ Disaster Mitigation Act of 2000
 - ▶ Amends Stafford Disaster Relief and Emergency Assistance Act
- ▶ Local hazard mitigation plans must be prepared and updated every 5 years in order to remain eligible for certain types of disaster assistance, including funding for hazard mitigation projects
 - ▶ Plans must be approved by Cal OES and FEMA

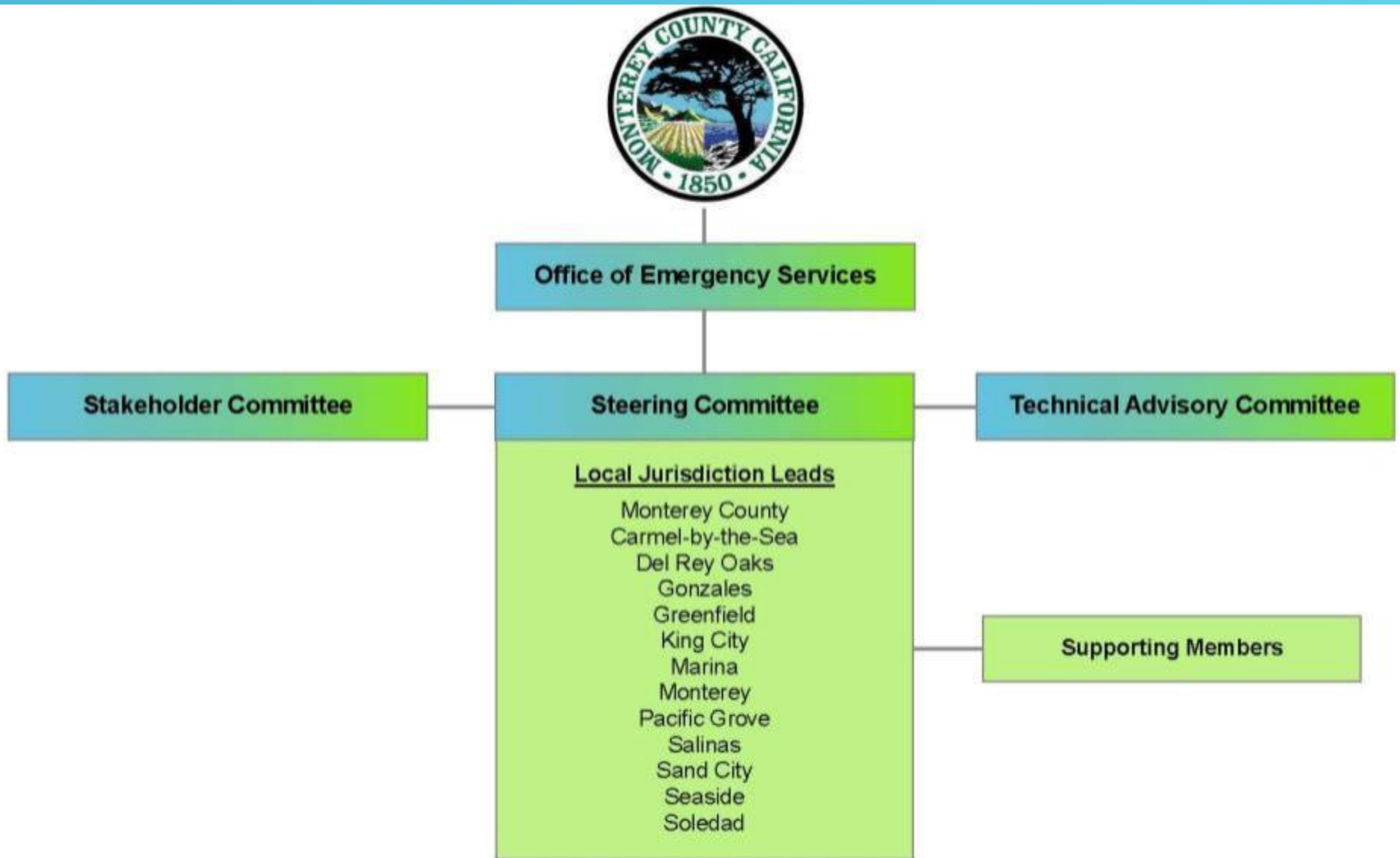


The Planning Process

- ▶ First Multi-jurisdictional Hazard Mitigation Plan was developed in 2006-2007
 - ▶ included all municipalities with exception of Seaside, which had prepared its own plan
- ▶ Plan is being updated to reflect new data, information, and priorities that may have changed since 2007
- ▶ Plan update process was led by Monterey County, with technical support from AECOM, and through a collaborative partnership with the NOAA Coastal Services Center and National Association of Counties (NACo)
- ▶ All 12 cities participated in the planning process



The Planning Organization



Existing Hazards (2007 Plan)	New Hazards (Updated Plan)
Coastal Erosion	Agricultural Emergency ✓
Dam Failure	Climate Change/ Sea Level Rise ✓
Earthquake	Drought✓
Flood <i>(includes Coastal Storm)</i>	
Hazardous Materials Event	
Landslide	
Tsunami	
Wildland Fire	
Windstorm	

IDENTIFIED HAZARDS

** The anticipated effects of **climate change** will be integrated into the analysis for all hazards.*

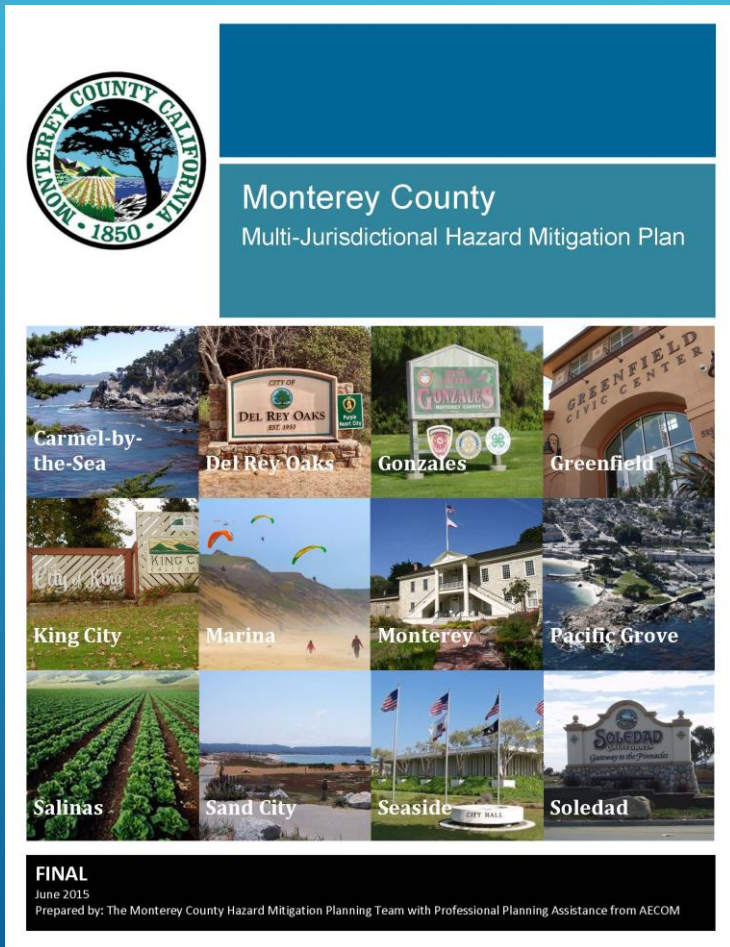
KEY OBJECTIVES FOR 2013-2014 PLAN UPDATE

- ▶ Integrate anticipated effects of climate change and sea level rise into the **risk assessment**
- ▶ Enhance the **mitigation strategy** to include specific, achievable, and measurable hazard mitigation and climate adaptation actions
- ▶ Improve **plan maintenance procedures** to establish a sustained, long-term process of increasing the resilience of all communities and ensuring hazard mitigation is continuously integrated into all community planning efforts.
- ▶ Conduct widespread **public outreach and stakeholder involvement** to support successful implementation, integration, and maintenance of the plan for all communities

PLAN ORGANIZATION (TABLE OF CONTENTS)

Plan Sections

- ▶ Section 1: Introduction
- ▶ Section 2: Planning Process
- ▶ Section 3: Planning Area Profile
- ▶ Section 4: Hazard Analysis
- ▶ Section 5: Vulnerability Analysis
- ▶ Section 6: Capability Assessment
- ▶ Section 7: Mitigation Strategy
- ▶ Section 8: Plan Maintenance Procedures
- ▶ Section 9: References



“Protect the public health, safety, quality of life, environment, and economy of Monterey County by reducing the long-term risk of damage and loss to known hazards through coordinated planning, partnerships, capacity building, and implementation of effective risk reduction measures.”

MISSION STATEMENT

1. Promote disaster-resistance and *climate adaptation* strategies in *future development*.
2. **Retrofit, reinforce, or otherwise protect existing community assets, especially critical infrastructure, for hazard resilience.**
3. Encourage *natural systems protection* through plans and policies; vegetation, debris and sediment control measures; maintenance and restoration programs; ecosystem services; and other activities for areas such as the Salinas and Carmel rivers and the Monterey County coast.
4. **Provide regulatory tools for applicable hazards and integrate hazard mitigation principles into appropriate local plans such as the General Plan during the next General Plan update.**
5. Increase *public education and awareness* on hazard risks and available mitigation techniques for reducing hazard risk; build and support *personal preparedness* to enable the public to better prepare for, respond to, and recover from disasters.
6. **Improve local government capacity for disaster resiliency; facilitate coordination between participating jurisdictions and state and federal agencies, local utility companies, local businesses, non-profit organizations, and other stakeholders to promote hazard risk reduction.**

MITIGATION GOALS

- ▶ Identify hazard-prone critical facilities and infrastructure and carry out acquisition, relocation, and structural and nonstructural retrofitting measures as necessary.
- ▶ **Develop a sustained public outreach program that encourages consistent hazard mitigation content.**
- ▶ Review and update County inundation maps every five years and participate in DSOD mapping updates
- ▶ **Examine and mitigate critical infrastructure that has been identified as currently being too narrow to ensure the safe transportation of truck loads within Monterey County.**

HAZARD MITIGATION STRATEGY FOR MONTEREY COUNTY

- ▶ Continue to conduct current fuel management programs and investigate and apply new and emerging fuel management techniques.
- ▶ Include provisions for dust erosion control methods in building, grading, and land clearing permits.
- ▶ Implement the Carmel River (CSA-50) Lower Carmel River Flood Control Project structural and operational improvements.
- ▶ Work with Repetitive Loss property owners to implement property protection activities.

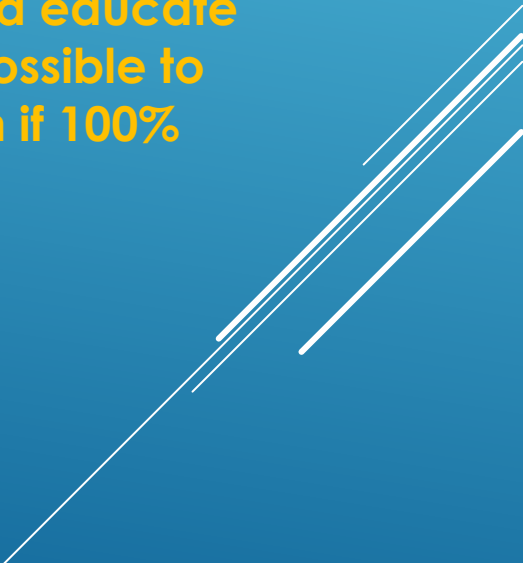
HAZARD MITIGATION STRATEGY FOR MONTEREY COUNTY

- ▶ Develop and implement a multi-hazard public awareness program to include new risks of sea level rise and climate change impacts.
- ▶ **Develop a debris management plan.**
- ▶ Conduct bi-annual core capability assessments of Monterey County public safety agencies
- ▶ **Develop and implement new tsunami evacuation and maritime response playbooks to improve decision making for protective actions that are specific for local jurisdictions and coastal effects.**
- ▶ Implement Business Operations Center and Private Sector Advisory Committee to ensure private/public partnerships.

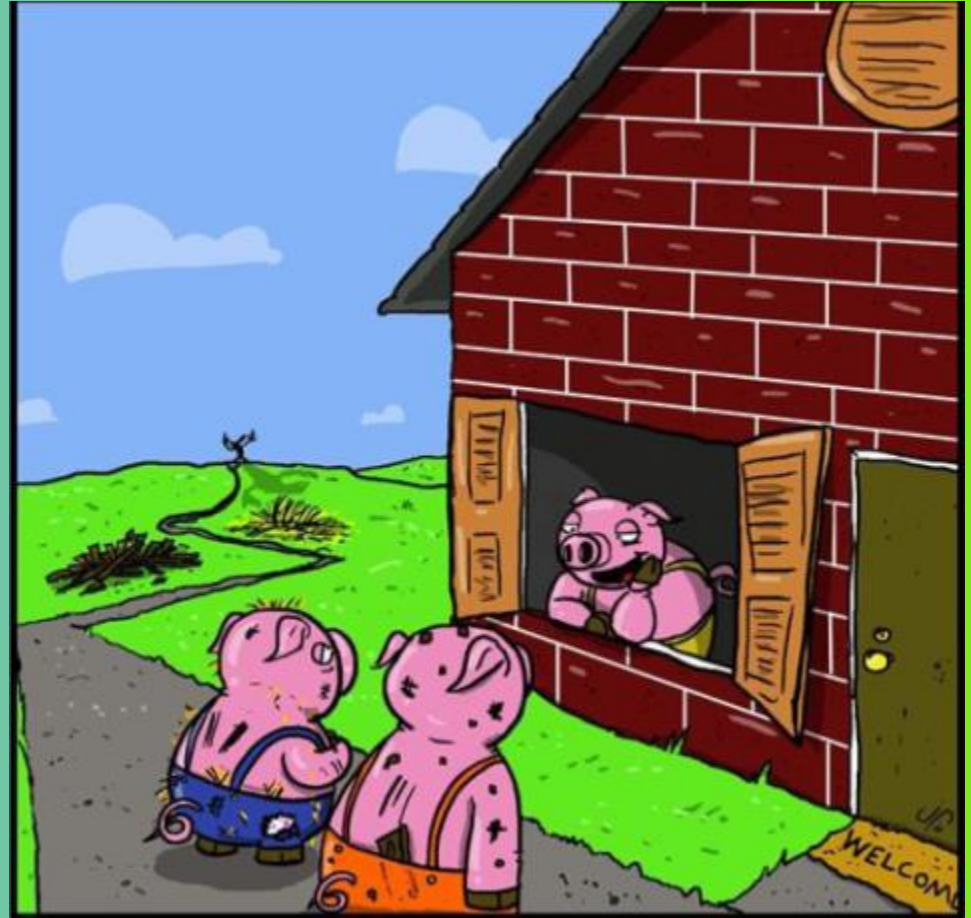
HAZARD MITIGATION STRATEGY FOR MONTEREY COUNTY

FINAL THOUGHT

While the threats from hazard events may never be fully eliminated, by minimizing and mitigating the damaging impacts of hazards, we can prevent such events from becoming 'disasters'. Although no amount of preparation though can guarantee absolute protection of local residence and property, local agencies can prepare and educate themselves and local residence to the greatest extent possible to promote and encourage preparedness and safety, even if 100% protection cannot be ensured.

A series of white diagonal lines of varying lengths and thicknesses, located in the bottom right corner of the slide, creating a modern, abstract graphic element.

THANK YOU



"Mitigation isn't so funny now, is it?"



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