An aerial photograph of Lassen Volcano, showing a large, rugged mountain peak with a prominent ash flow cone extending down its slopes. The foreground is covered in dense evergreen forests, and the sky is clear and blue. The text is overlaid in yellow and orange colors.

*State of California*  
**Statewide Volcanic Hazards  
Identification,  
Risk Assessment and  
Concept of Operations**

**Johanna Fenton**  
**California Emergency Management Agency**  
**Earthquake, Tsunami, and Volcanic Hazards**

Lassen Volcano

# Project Goals (from Charter)

- Provide a current scientific overview of volcanic hazards for California.
- Produce a statewide hazard analysis and evaluation of volcanic threats to public safety, property and the environment.
- Develop a concept of operations that describes how the state will respond to and recover from specific types of volcanic events.

# Purpose / Goals / Scope

- What results do we want (purpose)?
  - Life Safety
  - Property Protection
  - Economic Loss Reduction
- What questions do we want to answer (goals)?
  - Where are people/infrastructure/agriculture at risk?
  - How bad?
  - What can we do about it?
- How “big” should this document be (scope)?

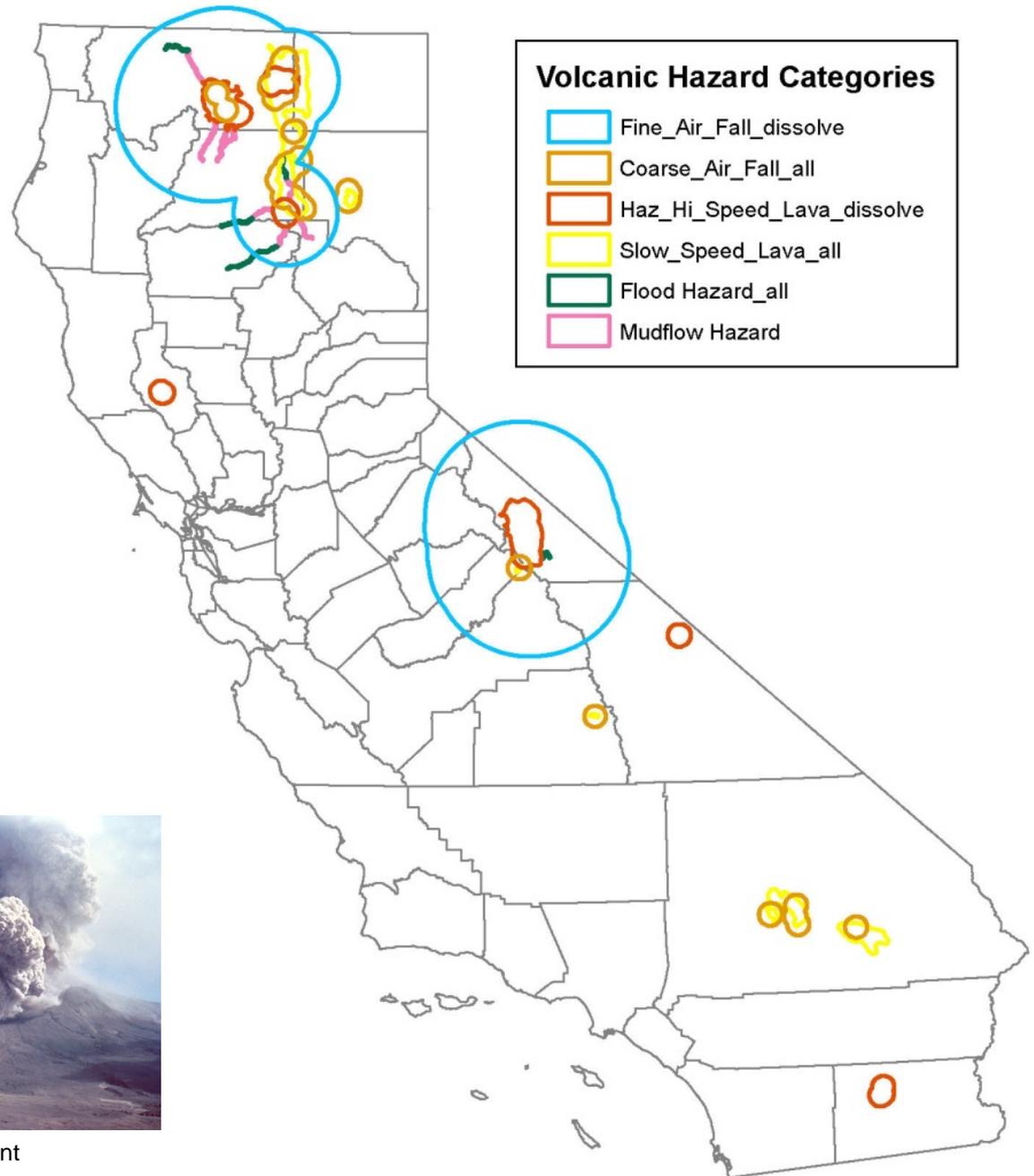
# Simplified Volcanic Hazard Zones

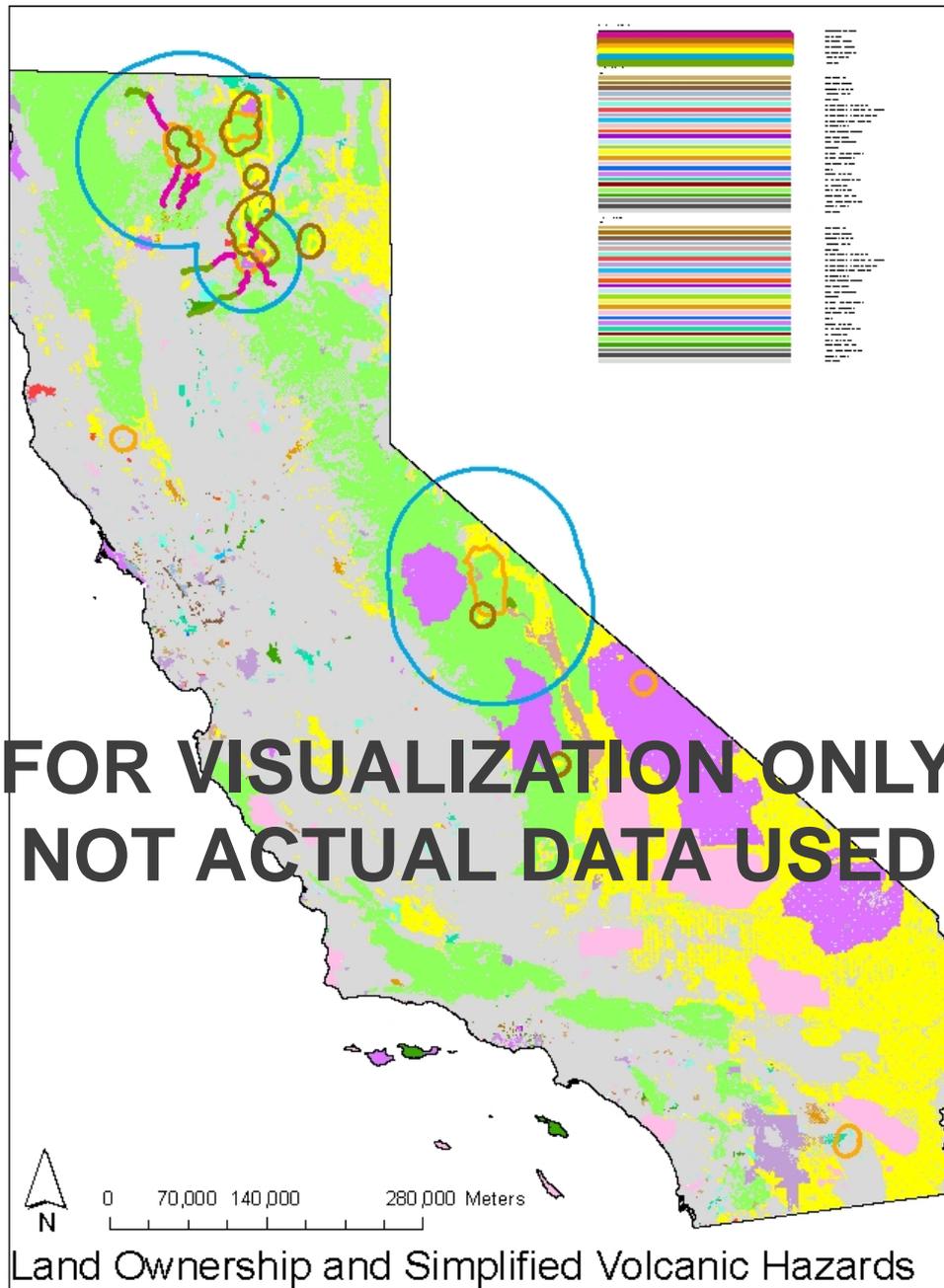


Fine Air Fall



High Speed event





## Sample Agency plan input based on GIS analysis results:

### Agriculture

#### •Assets managed or monitored

- 1.Plant Agriculture: Crops raised for commercial sale, parcels used for growing crops,
- 2.Animal Agriculture: Livestock and Poultry raised for commercial sale,
- 3.Fairgrounds
- 4.Agriculture Border Protection stations

#### •Overview of potentially affected assets in hazard zones

- 1.Fairgrounds in X, Y, and Z would be affected by Fine Air Fall.
- 2.Six Border Protection Stations in X, Y, and Z Counties would be affected by Fine Air Fall.
- 3.No major agricultural areas or facilities would be affected.

#### •Impacts to state

1. Fairgrounds may be unavailable for use as evacuation centers or bases of emergency operation.
2. Border Protection Stations maybe inoperable, but the roadways may also be unusable.

**FOR EXAMPLE ONLY  
NOT ACTUAL DATA USED**



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