

# Planning for Natural Hazards Under Oregon's Land Use Program



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# Work Going On

## The Oregon Resilience Plan

Reducing Risk and Improving Recovery  
for the Next Cascadia Earthquake and Tsunami

Report to the  
77<sup>th</sup> Legislative Assembly

from  
Oregon Seismic Safety Policy  
Advisory Commission (OSSPAC)



# Work Going On (cont.)

Prepared by  
The Department of  
Land Conservation  
and Development

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## **Preparing for a Cascadia Subduction Zone Tsunami: A Land Use Guide for Oregon Coastal Communities**

# Work Going On (cont.)

- The Oregon Department of Geology and Mineral Industries (DOGAMI)
  - Is the clearinghouse for geological hazards in Oregon
  - Has mapped many landslide areas in the SLIDO database
  - Works with the Federal Emergency Management Agency (FEMA) on flood hazards

# Work Going On (cont.)

- Counties must take some flood plain mitigation measures to be eligible for federal flood insurance
- Building codes discourage the location of some facilities in tsunami areas
- Oregon Office of Emergency Management focuses on tsunami, earthquake, and volcanic hazards
  - Mostly provides education

# What Have we Done in Oregon?

- Mapped hazards
- Raised awareness
- Taken some first mitigation steps
  - Building codes
- Provided some guidance to local governments for certain natural hazards
  - Some local governments have stepped up and taken even more steps
- The vast majority of the work has focused on tsunamis and earthquakes

# Oregon's Statewide Land Use Planning Goals

- 19 goals that provide non-binding guidance on how local governments should plan for future development
- Most of the goals have also been implemented in rule or statute
  - This requires local governments to take them into account
  - Often there are standards that must be met or processes that must be completed
  - Often there are also “safe harbors” that provide a simple cookie cutter way of satisfying the goal

# The Goals

Goal 1 Citizen Involvement

Goal 2 Land Use Planning

Goal 3 Agricultural Lands

Goal 4 Forest Lands

Goal 5 Natural Resources, Scenic and Historic Areas, and Open Spaces

Goal 6 Air, Water and Land Resources Quality

Goal 7 Areas Subject to Natural Hazards

Goal 8 Recreational Needs

Goal 9 Economic Development

Goal 10 Housing

Goal 11 Public Facilities and Services

Goal 12 Transportation

Goal 13 Energy Conservation

Goal 14 Urbanization

Goal 15 Willamette River Greenway

Goal 16 Estuarine Resources

Goal 17 Coastal Shorelands

Goal 18 Beaches and Dunes

Goal 19 Ocean Resources



# **Oregon's Statewide Planning Goals and Guidelines**

## **GOAL 7: AREAS SUBJECT TO NATURAL HAZARDS**

**To protect people and property from natural hazards.**

### **A. NATURAL HAZARD PLANNING**

1. Local governments shall adopt comprehensive plans (inventories, policies and implementing measures) to reduce risk to people and property from natural hazards.

2. Natural hazards for purposes of this goal are: floods (coastal and riverine), landslides,<sup>1</sup> earthquakes and related hazards, tsunamis, coastal erosion, and wildfires. Local governments may identify and plan for other natural hazards.

property based on the new inventory information and an assessment of:

- a. the frequency, severity and location of the hazard;
- b. the effects of the hazard on existing and future development;
- c. the potential for development in the hazard area to increase the frequency and severity of the hazard; and
- d. the types and intensities of land uses to be allowed in the hazard area.

2. Allow an opportunity for citizen review and comment on the new inventory information and the results of the evaluation and incorporate such information into the comprehensive plan, as necessary.

# Tsunami



# Earthquakes





# Coastal Erosion





# Landslides



# Goal 7 – Natural Hazards

- Goal 7 encompasses
  - Tsunamis and earthquakes
  - A host of hazards exacerbated by climate change including coastal and riverine flooding, coastal erosion, landslides, and wildfires
- Has not been implemented in rule or in statute
  - So there is a patchwork of regulation and little attention paid to natural hazards by many local governments
- It is important to implement Goal 7 so that we ensure that local governments take natural hazards into account when they are planning for future development