

Management Responses Across Sectors and Boundaries:

The Oregon Climate Change Adaptation Framework

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Oregon Climate Change Adaptation Framework

Presentation at a glance

- Purposes of the framework
- Primary Framework elements
 - Climate risk profiles: The foundation for the Framework
 - Short-term priority actions
 - Recommendations for implementation
- Next steps in implementing the Framework
- Important lessons

Purposes of the Oregon Framework

- Identify future climate conditions that pose major risks for Oregonians
- Provide a framework to help state agencies, local governments and citizens begin to prepare for the effects of changes in Oregon's climate
- Assess Oregon's capacity to address climate-related risks to people, communities, infrastructure, and natural resources
- Identify short-term, low-cost priority actions to begin preparing for future climate conditions

Primary Framework elements:

- 'Profiles' of eleven major climate risks, developed in parallel with the Oregon Climate Assessment Report (OCAR)
- Short-term priority actions under each risk
- Recommendations for implementation

Climate Risks: The Foundation for the Framework

- ❖ Increase in average air temperatures
- ❖ Changes in hydrology and water supply
- ❖ More wildfires
- ❖ Increase in ocean temperatures
- ❖ Increased drought
- ❖ Increased coastal erosion and inundation
- ❖ Changes in habitats
- ❖ Increase in diseases and invasive species
- ❖ Loss of wetland ecosystems
- ❖ Increase in extreme precipitation events
- ❖ More landslides

Risk profiles

- ❖ Background information on the risk
- ❖ Gaps in state capacity to address risk
- ❖ Needed agency actions
- ❖ Priority actions

Recommendations for Implementation

- ☐ Identify research priorities
- ☐ Complete agency program assessments
- ☐ Integrate economic analysis into next round of adaptation planning
- ☐ Integrate adaptation measures into existing planning
- ☐ Integrate local, private and federal entities into the next round of adaptation planning
- ☐ Communication and outreach

Next Steps in Implementing the Framework

- **“Step down” the state-level risks to the regional level**
 - Sub-state regions
 - Ecoregions
 - Watersheds or Hydrologic basins
- **Conduct regionally-coordinated *local* vulnerability analyses and mitigation measures**
 - People and communities
 - Infrastructure and the built environment
 - Natural resources and systems
- **Develop integrated multi-objective adaptation (mitigation) plans**
 - Using *natural hazard mitigation planning* methods and approaches

Important lessons

- Rely on climate science
- Identify risks across systems or sectors
- Risk-based adaptation planning integrates across landscape scales, jurisdictional boundaries, and institutional silos
- A lot of adaptation will involve *doing things differently*, as opposed to *doing new things*

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