

# Climate Change Preparation Planning

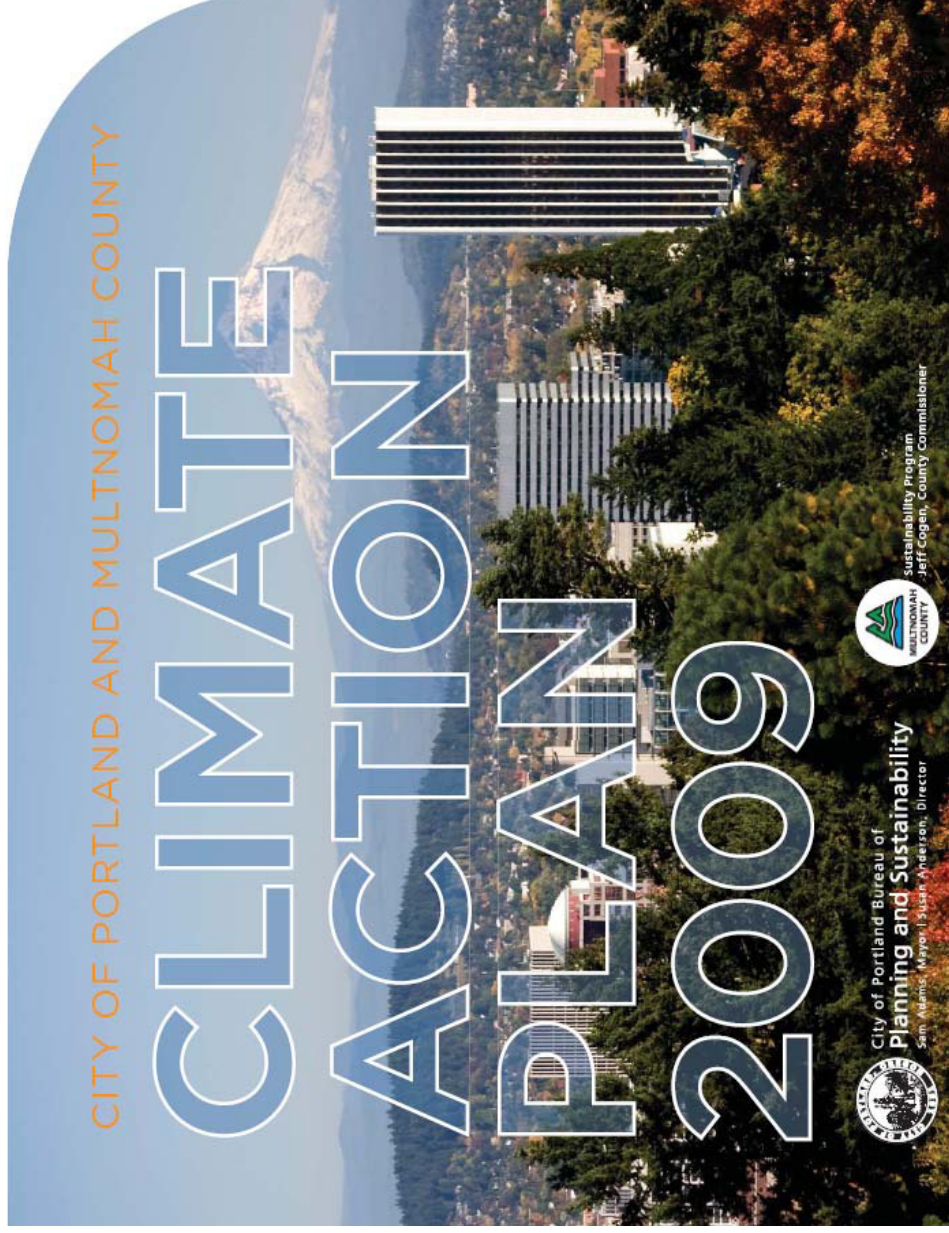


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# 2030 Objective: Adapt successfully to a changing climate



# Work Already Underway



# Partnerships


- Climate Leadership Academy
- Multnomah County
- Metro
- Climate Leadership Institute




METRO



# Timing Is Right



Oregon Climate Assessment Report  
December 2010



Oregon Climate Change Research Institute

**The Oregon Climate  
Change Adaptation  
Framework**

December 2010



# Timing Is Right

## Building Climate Resiliency in the Lower Willamette Region of Western Oregon



*A Report on Stakeholder Findings and Recommendations*

**The Resource Innovation Group's  
Climate Leadership Initiative**

January 2011



**THE  
INTERTWINE**

# Observed Oregon Changes

- Annual avg. temperature
  - Up 1.5° F
- Shifts in seasonal stream flows
- Cascade snowpack
  - Down 18-20%
- Sea level rise
  - 2.8 to 3.1 mm/yr
- Decline in glaciers



# *Projected Oregon Changes*

- Overall warming trend
  - 10 to 15° F in summer
  - 3 to 5° F in winter
- Precipitation pattern changes
  - Most difficult for climate models to project
  - Generally indicate wetter winters, drier summers
  - Total amount may remain same
  - Likely changes in timing, frequency, intensity and form (rain instead of snow)



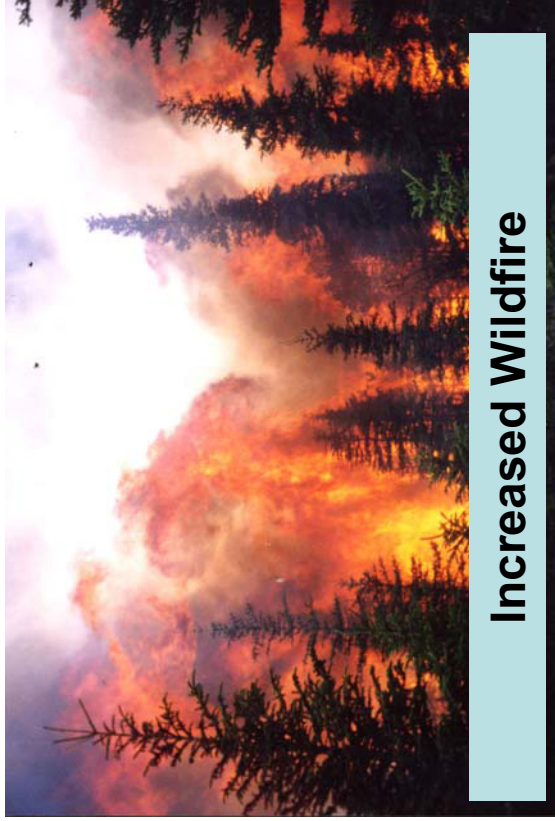
# Projected Oregon Changes



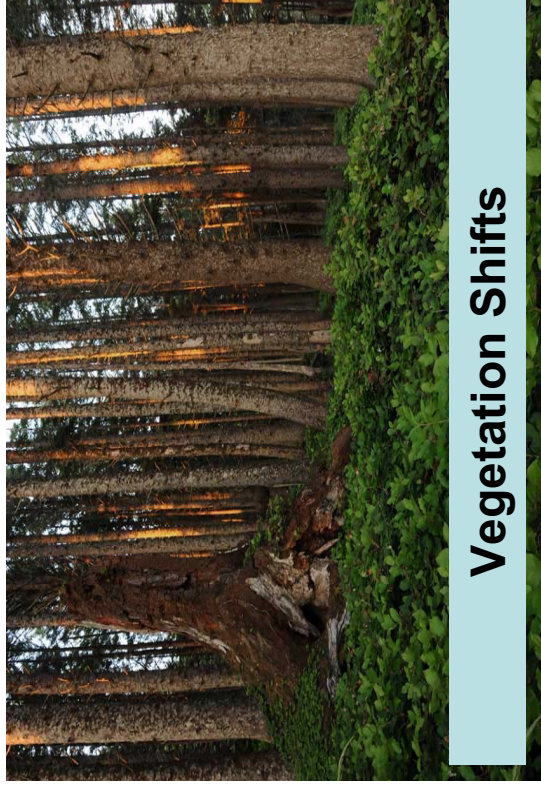
**Less Snowpack**



**Streamflow Changes**

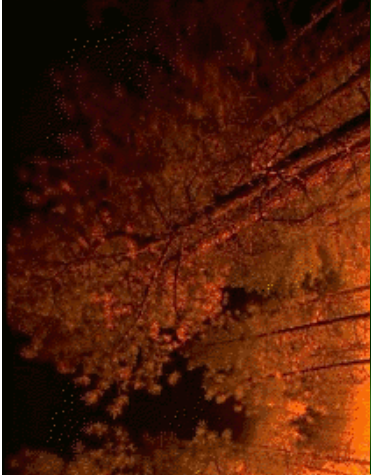


**Increased Wildfire**



**Vegetation Shifts**

# Potential Impacts



# Climate Adaptation Planning

- **Natural Systems**
  - Aquatic and terrestrial ecosystems and species
- **Built Systems**
  - Public works, communication and transportation infrastructure
  - Buildings and utilities
- **Human Systems**
  - Public health, emergency services, etc

# Phase I

- Natural Systems
  - Existing “Natural Resources Team”
- Built Systems
  - Limited scope = “Engineered Infrastructure”
- Human Systems
  - Limited scope = “Public Health”
- Phase II:
  - Buildings, emergency preparedness, natural hazards, power and communications infrastructure, etc.

# End Products

- Identify likely climate changes
- Consequences of those changes
- Assess City's capacity to address risks
- Identify existing strengths
- Identify additional research and partnership needs
- Prioritize short- and long-term actions
- Mechanisms to institutionalize

# Timeline

- Completed by end of 2012:
  - Natural Systems
  - Engineered Infrastructure
  - Public Health
- Underway by end of 2012:
  - Buildings
  - Emergency preparedness
  - Natural hazards



**Questions?**

**Suggestions?**