The **CSC** links the energy, expertise and innovation of the University of Oregon with the planning and public policy needs of Oregon communities.
The Classroom and the Community

- The classroom provides a foundation for community-based learning
  - Analytical skills
  - Theory, history

The community provides the framework and motivation for learning
  - Real problems
  - Real people
CSC Focus Areas:

- Natural Resources
- Social Planning
- Community and Economic Development
- Energy
- Food Systems
- Housing
- Transportation
- Parks & Recreation Planning
- Natural Hazards and Community Resilience
Understanding Risk

Natural Hazard

Potential Catastrophic and Chronic Physical Events
- Past Recurrence Intervals
- Future Probability
- Speed of Onset
- Magnitude
- Duration
- Spatial Extent

Vulnerable System

Exposure, Sensitivity and Resilience of:
- Population
- Economy
- Land Use and Development
- Infrastructure and Facilities
- Cultural Assets
- Ecosystem Goods and Services

Risk of Disaster

Ability, Resources and Willingness to:
- Mitigate
- Respond
- Prepare
- Recover

Source: USGS- Oregon Partnership for Disaster Resilience Research Collaboration, 2006
MITIGATION

◆ Hazard Mitigation Planning: Act Before Disaster Strikes
◆ Mitigation: any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

◆ Strategies: Policy Changes, Education and Outreach, Capital Projects
◆ Yield: Fewer casualties, less disruption, shorter recovery
MITIGATION ACTION EXAMPLES

**Policy**
- The City shall participate in the CRS program
- The City shall develop guidelines for the clearing of snow and placement of snow banks to reduce the likelihood of flooding.

**Project**
- Retrofit bridges that are not seismically adequate
- Clean flood prone waterways

**Process**
- Establish a hazard mitigation planning committee
- Integrate the Mitigation Plan findings into planning and regulatory documents and programs.
SOME ISSUES TO CONSIDER

- Western economic model constrains long-term planning
- Centralization of infrastructure limits diversity and redundancy
- Focus on built (engineered systems) limits multi-objective, nature-based options
- Over-emphasis on scientific knowledge misses lessons from oral history and indigenous knowledge
Oregon Natural Hazards

- Coastal Erosion
- Drought
- Dust Storm
- Earthquake
- Wildfire
- Flood
- Landslide
- Tsunami
- Volcano
- Windstorm
- Winter storm

Oregon Tribal Environmental Forum
## Oregon Disaster Declarations

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Incident Description</th>
<th>Declaration Type</th>
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<tr>
<td>1036</td>
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<td>El Nino Effects (The Salmon Industry)</td>
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Oregon Tribal Environmental Forum
Cascadia Subduction Zone

Image Source: Oregon Department of Geology and Mineral Industries
Comparison to 2011 Tohoku earthquake and tsunami

(left) Green zone is the exact footprint of the Tohoku rupture zone. (right) Green zone indicates a region where earthquakes can occur in the Pacific Northwest.
Figure EQ-6: Summary diagram showing Cascadia megathrust earthquake history over the last 10,000 years, “T” numbers identify individual earthquakes. Four distinct modes are seen, ranging from the 19 full-length ruptures in panel A (~M 9) to the 10 smaller ruptures in panel D. Figure from Goldfinger and others, 2011.
The Oregon Resilience Plan

50-year Comprehensive Plan

- Save Lives
- Protect our Economy
- Preserve our Communities

- 169 volunteers
- $0 Funding
- One-year Schedule
**Current Resilience Gap**

Business can only tolerate **two to four** weeks of disruption of essential services.

<table>
<thead>
<tr>
<th>Critical Service</th>
<th>Zone</th>
<th>Estimated Time to Restore Service</th>
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<tr>
<td>Electricity</td>
<td>Valley</td>
<td>1 to 3 months</td>
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<tr>
<td>Electricity</td>
<td>Coast</td>
<td>3 to 6 months</td>
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<tr>
<td>Police and fire stations</td>
<td>Valley</td>
<td>2 to 4 months</td>
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<tr>
<td>Drinking water and sewer</td>
<td>Valley</td>
<td>1 month to 1 year</td>
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<tr>
<td>Drinking water and sewer</td>
<td>Coast</td>
<td>1 to 3 years</td>
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<td>Top-priority highways (partial restoration)</td>
<td>Valley</td>
<td>6 to 12 months</td>
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<td>Healthcare facilities</td>
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<td>18 months</td>
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<tr>
<td>Healthcare facilities</td>
<td>Coast</td>
<td>3 years</td>
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</table>
Physical Changes during CSZ Earthquake

- **Ground shaking**: 
  - [Image 1](http://photoblog.nbcnews.com)

- **Liquefaction**: 
  - [Image 2](http://photoblog.nbcnews.com)

- **Subsidence**: 
  - [Image 3](http://photoblog.nbcnews.com)

- **Landslides**: 
  - [Image 4](http://photoblog.nbcnews.com)
Building Impacts

http://japanpropertycentral.com

Source: University of Washington, Nisqually Earthquake Clearinghouse
Impacts to Transportation Networks

• 19 bridges on Oregon’s Interstate 5 heavily damaged
• 56 of 135 bridges on U.S. Hwy 101 in Oregon collapse
• Disrupted rail service due to bridge damage (Portland, Olympia, Seattle)

Photo by G.W. Thorsen, Washington Division of Geology and Earth Resources.
• Greatest damage at coast
• No tsunami at Seattle, Portland, or Vancouver (BC), but damage from shaking & strong currents
• Columbia and Willamette shipping channels blocked
• Slight to moderate damage to airports along I-5
Electricity, Natural Gas, Liquid Fuel

• Widespread power outages
• Loss of natural gas service
• Liquid fuel shortages
Water Systems

- Water supply interruption
- Lengthy restoration and repair times
- Decreased fire suppression capacity
Communication Networks

- Landline & wireless
  - Broken cables
  - Equipment failures and structural damage
  - Power outages
  - Jamming

- Undersea transpacific cables severed

Source: FM News 101KXL
Interdependence of Infrastructure

- No roads and bridges means no access to downed power lines and broken pipes
- No water pressure means no fire fighting
- Damaged fuel pipelines and terminals means limited fuel supplies for generators and vehicles
Displaced Populations

- Thousands of displaced populations
- Sheltering in place for some
- Seasonal issues
- Challenges for low-income groups

Source: FEMA, Walt Jennings
Tsunami

- 15-30 minutes after ground shaking
- Multiple waves
- Variable wave heights

2011 Tohoku earthquake and tsunami
M9.0 earthquake
~18,000 deaths

Loss of Life and Injuries in Tsunami Impact Zones

Wood and Schmidtlein, 2013
Impacts in Eastern Oregon

- Staging for emergency response
- Wells may go dry
- Influx of hospital patients
- Transfer of administrative functions
- Disruption of business supply chains
Damaging Aftershocks

Earthquake
• M9.2, Prince William Sound, Alaska, 1964
• M9.1, Aceh-Andaman, Sumatra, 2004
• M8.8, Maule, Chile, 2010
• M9.0, Tohoku, Japan, 2011

Aftershocks (M6+)
• 11 within first day
• 13 within first 4 days
• 21 within first 2 months
• 59 within first 3 months

Image Source: USGS
WHAT’S MISSING?
Quileute Moving to Higher Ground

Oregon Tribal Environmental Forum
Several local projects, same conclusions:

- Eugene/Springfield Climate and Hazard Vulnerability Assessment
  - Water/wastewater off line for months to years
- Lincoln County NHMP Update
  - Island communities due to transportation impacts
- Clatsop County Resilience Framework
  - Limited local coordination and networking

Catastrophic impacts to community systems!
What IS happening?

- State Office of Resilience
- ~$200,000 added to Seismic Rehab Grants (SRGP)
- ODOT bridge retrofits
- Recent updates to tsunami inundation maps
- Cascadia Rising exercise
- Greater Eugene/Springfield
  - EWEB Second Source and other projects
  - Land Use policy options
  - Critical facilities assessments
  - Building improvements
What is Resilience?

The ability to anticipate, absorb, adapt to, and recover from disruptions
One Way to Think About Resilience:

Stockholm Resilience Center - Seven Principles:

- Maintain diversity and redundancy
- Manage connectivity
- Manage slow variables and feedback loops
- Foster complex, adaptive systems thinking
- Encourage learning
- Broaden participation
- Promote polycentric governance systems
Diversity and Redundancy

Keep your options open . . .
Connectivity
Make friends with different kinds of folks...
Slow Variables & Feedback Loops
Pay attention to changes over time . . .

Then

Now

http://www.salemhistory.net/commerce/cannery_photos.htm
COMPLEX SYSTEMS THINKING

Systems, interdependencies and uncertainties matter . . .
ENCOURAGE LEARNING

- Basic First Aid and CPR
- Build a “Go-Kit”
- Operate a fire extinguisher
- Evacuation drills at home
- Text, Tweet and ??
- Turn off utilities
- HAM Radio
- CERT
- Red Cross Classes
Broaden Participation

Expand the depth and diversity of engagement . . .

- Get entire family involved
- Out of state contact
- Engage school, church, clubs
- Neighbors/Neighborhood Group
  - Map Your Neighborhood
- Community events
- Try new things to build skills
POLYCENTRIC GOVERNANCE

What does that mean?

- More collaboration, less competition
- Vertical and horizontal integration (nested institutions)
- Bottom up informs top down
- Applies the other resilience principles
FEMA Mitigation Training for Tribal Governments

- FEMA Hazard Mitigation Training
- November 16-19
- Warm Springs, OR

Course: L0582  Mitigation for Tribal Governments

- **Date:** November 16-19, 2015
- **Location:** Warm Springs, OR
- **Time:** 8:30am - 5:00pm

**Course Purpose:**
To give tribal governments a foundation for reducing or preventing potential losses from natural or other hazards.

**Course Description:**
Hosted by FEMA Region X and the Confederated Tribes of Warm Springs. This 4-day course will provide tribal representatives with an understanding of mitigation opportunities and techniques, examples of mitigation success stories to reduce future losses from natural or other hazards, and an overview of available FEMA mitigation programs. Primary emphasis is on helping tribal emergency managers and planners recognize a successful planning process, identifying planning team members, identifying mitigation planning requirements and effective mitigation opportunities to improve the sustainability of their tribal community, and better protect tribal citizens, lands, culture, and sovereignty.

**Funding:**
Tuition is free for enrolled students. All incurred costs are the responsibility of the attendee or sending agency.

**Target Audience:**
This course is for tribal emergency managers, tribal community response personnel, tribal leaders, emergency support functions, program directors including education, health, natural resources, transportation, public works, facilities management, security, environmental programs, human resources, and managers for any tribal water projects.

**Prerequisites:**
Required prerequisites include E/10580 Emergency Management Framework for Tribal Governments.
Recommended prerequisites include E/10581 Emergency Operations for Tribal Governments.

**Continuing Education Units:**
Students completing this course will receive an Emergency Management Institute (EMI) Certificate of Completion for 3.4 CEUs via e-mail after the course is completed.

**Course POC:**
Jay LaPlante
FEMA Region X
Tribal Relations Specialist
Phone: (425) 487-4540
Fax: (425) 487-4622
jaylaplante@fema.dhs.gov

To apply: Please see the next page for the “Enrollment Procedures and Points of Contact”
Thank You!

Live as if you were to die tomorrow. Learn as if you were to live forever.

-Mahatma Gandhi