



## Curry County Natural Hazard Mitigation Plan Update Steering Committee Meeting #2

April 16, 2020, 9:00 AM to 10:30 AM

ONLINE ZOOM MEETING



OREGON  
Department of  
Land Conservation  
& Development

<https://zoom.us/j/714027834?pwd=TUpXbWE2Nm92QjZreG9tZG92YzdaUT09>

Meeting ID: 714 027 834 Password: 186379

888-683-5191 US Toll-free/ Meeting ID: 714 027 834

### MEETING NOTES

#### Attendees:

Jeremy Dumire, Emergency Manager (Convener), Curry County Emergency Services  
Pam Reber, Natural Hazard Planner (Project Manager), Oregon Dept. of Land Conservation & Development (DLCD)  
Richard Christensen, Roadmaster, Curry County Road Department  
Summer Madison, Coordinator, Curry County Economic Development  
Anthony Baron, Public Works/Developmental Services Director, City of Brookings  
Nancy Raukauskas-Coons, Public Information Officer, Brookings-Harbor School District  
Wade McMaster, District Ranger, Rogue River-Siskiyou National Forest, Gold Beach Ranger District  
Kim Hunter, Partnership Coordinator, Rogue River-Siskiyou NF  
Dani Padilla, Park Manager, Harris Beach Management Unit  
Kim Hunter, Partnership Coordinator, Rogue River-Siskiyou NF  
Sean Stevens, Regional Development Officer, Business Oregon  
Hui Rodomsky, South Coast Regional Representative, DLCD  
Meg Reed, Coastal Shores Specialist, DLCD

#### IGA Status

- Port of Port Orford: Has approved and signed the IGA.
- Curry County: Council has reviewed the IGA, but not officially approved it yet.
- Brookings: Has not taken it to Council, wanted clarification about cash match. Pam clarified there was only in-kind match.

#### Updates

- Curry County Road Department has a number of different plans they are trying to fund. These include:
  - Communications Tower Facility Plan
  - Bridge Resiliency Plan
  - Critical Lifeline Routes Plan
- Curry County Emergency Management is interested in the following plans or plan updates:
  - Emergency Operations Plan update
  - Community Wildfire Protection Plan update

- Tsunami Resilience Plan to consider evacuation structures, facilities, routes.
- DOGAMI is working on completing tsunami evacuation mapping (Beat the Wave; tsunami mapping) for Port Orford and Gold Beach.
- The Curry Resiliency Project is funded/convened by Wild Rivers Community Foundation and has done insight interviews, data mining and community stakeholder convening to debrief and learn from the 2017 Chetco Bar Fire. (Nancy Raukauskas-Coons)

## **Decisions**

*Only two “plan holder” jurisdictions were present at this meeting so the group agreed it was best to table decisions until the next meeting.*

## **Review Hazard Data Viewers**

*A presentation on how to use the various hazard data viewers was shared, along with a recap on the steps involved with the NHMP update (see slides).*

## **Review and Discuss Public Engagement Program**

*Additional detail was added to the concepts shared for the Public Engagement Program.*

- Social media—people can be directed to review the plans online via social media.
- Email lists, Website(s), and Online Survey are all options.
- OPRD (Dani Padilla) is willing to help share information on their website, at Oregon.gov, and on social media.

## **Cost Share Forms**

*Cost share forms were emailed to the meeting attendees following the meeting.*

## **Next Steps / Adjourn**

- Next meeting: July 23, 2020 1pm, location TBA/online likely.



**OREGON**

Department of  
Land Conservation  
& Development



## Curry County NHMP Organizational Meeting #2

Thursday April 16<sup>th</sup>, 2020 9-11 AM  
Online and via Phone

-Pam Reber, Natural Hazard Planner/Plan Update Project Manager



### Curry County Natural Hazard Mitigation Plan Update Steering Committee Meeting #2

April 16, 2020, 9:00 AM to 11:00 AM  
Meeting to be recorded and uploaded  
to the County Government Channel.

Join Zoom Meeting online:

<https://zoom.us/j/714027834?pwd=UUpXbWZNMjZm92QzZreG9hZG92YzdaUT09>

Meeting ID: 714 027 834 Password: 186379

Or via phone: 888-683-5191 US Toll-free Meeting ID: 714 027 834



#### AGENDA

<b>Introductions and Welcome (all)</b>	<b>9:00 - 9:10</b>
<ul style="list-style-type: none"> <li>Please share your name, organization, and title.</li> </ul>	
<b>IGA Status &amp; Updates</b>	<b>9:10 - 9:30</b>
<ul style="list-style-type: none"> <li>Report out on IGA adoption and any other updates related to hazard mitigation.</li> </ul>	
<b>Decisions</b>	<b>9:30 - 9:45</b>
<ul style="list-style-type: none"> <li>Determine decision-making protocol.</li> <li>Approve September 26, 2019 minutes.</li> </ul>	
<b>Review Hazard Data and Other Plan Information</b>	<b>9:45 - 10:25</b>
<ul style="list-style-type: none"> <li>Presentation on how to use hazard viewers to assess community risk.</li> <li>Overview of plan update components</li> </ul>	
<b>Review and Discuss Public Engagement Program</b>	<b>10:25 - 10:40</b>
<ul style="list-style-type: none"> <li>Each jurisdiction is required to conduct some engagement during the planning process. We will use the PEP matrix to identify what will be done.</li> </ul>	
<b>Cost Share Forms</b>	<b>10:40 - 10:50</b>
<ul style="list-style-type: none"> <li>Review, Fill out, and Sign Quarterly Cost Share Forms</li> <li>Provide contact information for the fiscal contact for each jurisdiction.</li> </ul>	
<b>Next Steps / Adjourn</b>	<b>10:50 - 11:00</b>
<ul style="list-style-type: none"> <li>Steering Committee Mtg. #3: Risk Assessment – will be held ONLINE.</li> <li>Date: <b>Thursday, July 23<sup>rd</sup> 9am-noon</b></li> </ul>	

**Plan Update References:**

Questions about what we will be doing? Consider reviewing these documents.

**Google Drive folder:**

<https://drive.google.com/drive/folders/1sQ4yZ717UXd457a5P5llvB16lyGcma7usgsharng>

- Curry County Natural Hazard Mitigation Plan Volumes I & Volume II, November 2015
- DOGAMI Natural Hazard Risk Report for Curry County
- Curry County Scope of Work
- Curry County NHP Steering Committee Meeting #1 September 26, 2019 Notes
- FEMA Local Mitigation Planning Handbook
- Free Hazard Mitigation Planning Tutorial

Please provide the following information from your jurisdiction by uploading to the following folders

or via email to [jamela.reher@state.or.us](mailto:jamela.reher@state.or.us) by May 15<sup>th</sup>, 2020:

- Adopted IGA (or just page 9, signature page):  
<https://drive.google.com/drive/folders/12NkRb7hkm-pilv47VvvtY74pk5Ev7usgsharng>
- High-resolution Logo:  
[https://drive.google.com/drive/folders/1yGumyRZ\\_RfnoXZ3P90IP\\_acY-Hpw9b17usgsharng](https://drive.google.com/drive/folders/1yGumyRZ_RfnoXZ3P90IP_acY-Hpw9b17usgsharng)

**Plan Participation FAQs:****What are we doing?**

- Creating a plan with specific strategies and actions that, when implemented, will make Curry County more resilient to natural disasters.

**What is your role?**

- Be a part of the project Steering Committee that will shape the contents of the plan.
- Ensure that your jurisdiction/agency is prepared for natural disasters when they occur.

**What is your time commitment?**

- Attend a maximum of six (6), 2-hour Steering Committee meetings over the next 12 months.
- Review documents and bring feedback from your constituents back to the Steering Committee.

**Is there a financial cost to your agency or jurisdiction?**

- No. There is no direct financial cost to Curry County or any of the participants in this plan. This project is funded 100% by FEMA.

**What are the benefits?**

- Curry County and participating jurisdictions will be eligible for federal grants and other funding opportunities to complete the strategies in the plan.
- You will help make the Curry County community more resilient to natural hazards

**What is the risk of not participating?**

- A FEMA-approved hazard mitigation plan is needed to receive certain types of non-emergency disaster assistance, including funding for mitigation projects, like [Hazard Mitigation Assistance](#).

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Table 1: ALLOCATION OF BASIC RESPONSIBILITIES AND TASKS

Responsibility/Task	DLCD	COUNTY	CITIES	SPECIAL DISTRICTS
<b>Steering and Technical Advisory Committee Meetings</b>				
• Prepare and distribute agenda 7-10 days prior to meetings via email. If a SC or TAC member does not have access to email, JURISDICTIONS will ensure the member receives a hard copy 5 days prior to meetings.	X	Assist	Assist	Assist
• Prepare handouts. If appropriate, distribute handouts 7-10 days prior to meetings via email. If a SC or TAC member does not have access to email, JURISDICTIONS will ensure the member receives a hard copy 5 days prior to meetings.	X	Assist	Assist	Assist
• Provide language for public notice of meetings if requested.	X			
• Lead and facilitate meetings.	X	Assist		
• Prepare and distribute meeting notes.	X			
• Engage with local internal and external stakeholders about the project and bring their input back to the committee discussions.		X	X	X
<b>Public Engagement Program</b>				
• Execute Public Engagement Program.	Assist	X	X	X
• Lead public engagement meetings and events.	Assist	X	X	X
• Facilitate public engagement meetings and events.	X	Assist	Assist	Assist
• Provide public notice of meetings and events through a variety of means.	Assist	X	X	X
• Shepherd MINHMP through Planning Commission, Board and Council work sessions and adoption process.	Assist	X	X	X
<b>Plan Development</b>				
• Gather hazard and vulnerability data, existing plans, studies, reports, and technical information.	X	X	X	X
• Provide information on climate change and its influence on hazards.	X			
• Provide GIS services.		X	X	X
• Provide assessor data.		X	X	X
• Provide other data and information.		X	X	X
• Analyze data.	X	Assist	Assist	Assist
• Write plan sections.	X	Assist	Assist	Assist
• Review plan sections.	X	X	X	X
• Edit plan sections.	X	Assist	Assist	Assist
• Finalize plan.	X			
<b>Administrative Functions</b>				
• Publish notice of meetings and events 7-10 days prior to date of occurrence.		X	X	X

Responsibility/Task	DLCD	COUNTY	CITIES	SPECIAL DISTRICTS
• Print agenda, sign-in sheet and handouts for meetings. DLCD will print color and 11x17 handouts only if none of the JURISDICTIONS has capability and no commercial printer with capability is reasonably available.	Assist	X	X	X
• Develop and maintain during the update and after completion an interactive project web page and link to that page on the jurisdiction's home page.		X	X	X
• Establish and maintain a listserve, email service, or dedicated email address accessible on the project web page for communication with the public (e.g., distribute news, receive comments).		X	X	X
• Jurisdictions without web access will commit to other methods for ensuring the project information is made available to the public in a timely manner.		X	X	X
• Track and accurately report cost-share in the required format at least quarterly by the deadline set by DLCD.		X	X	X
• Document the planning process by keeping copies of all agendas, sign-in sheets, notices, publications, web page updates, etc. for inclusion in the updated MINHMP.	X	X	X	X
• Monitor and adjust project schedule.	X	Assist		
• Handle Logistics (space reservations, supplies, copies, audio/visual equipment, etc.) for Steering Committee meetings, Technical Advisory Committee meetings (if applicable), public engagement meetings and events, etc. occurring in your jurisdiction.		X	X	X

- A: Planning Process
- B: Hazard Identification & Risk Assessment
- C: Mitigation Strategy
- D: Plan Integration, Evaluation, and Implementation

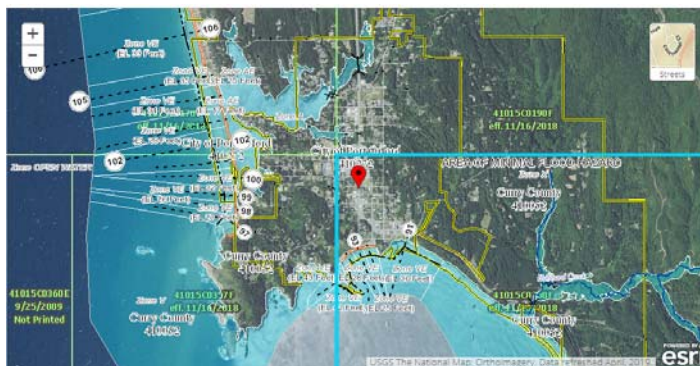
## Natural Hazard Mitigation Plan Required Elements

Curry NHMP Steering Committee Meeting – April 16, 2020

## Review Hazard Data

**Updated FEMA  
flood maps as  
seen at:**

<https://msc.fema.gov/>



**DLCD will update the  
hazard chapter with  
NHMP SC support:**

- Revise sections with new data and clarifications on the type, extent, frequency, and severity of each hazard.
- Review the list of hazards with the group to ensure it is complete.
- Identify vulnerable populations and changes in development that affect risk.
- Conduct HVAs with new jurisdictions, review/update existing HVAs using the Oregon Emergency Mgmt (OEM) methodology.

Curry NHMP Steering Committee Meeting – April 16, 2020

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# Incorporate Risk Report Findings

State of Oregon  
Oregon Department of Geology and Mineral Industries  
Bridgette, State Geologist

INTERPRETIVE MAP XX

**NATURAL HAZARD RISK REPORT FOR CURRY COUNTY, OREGON**  
INCLUDING THE CITIES OF BROOKINGS, GOLD BEACH, AND PORT ORFORD AND THE  
UNINCORPORATED COMMUNITIES OF HARBOR AND NESKA BEACH

by Matt C. Williams



## Estimating Loss

To estimate loss, we use the asset inventory with dollar values, and assess the assets' exposure to each natural hazard facing the Jurisdiction. The exposure ratio shows the relative exposure of assets among individual hazards. It is calculated as (Exposed Estimated Value / Total Estimated Value) x 100.

The sum of the values of the assets exposed to each hazard is the District's potential dollar loss from a particular hazard. The sum of the potential losses from all hazards is the District's total potential dollar loss from natural hazards.

Where data and resources are available, potential damage estimates may be modeled (e.g. using FEMA's HazUS tool) for more accurate overall loss estimates.

## Data Sources:

- Building inventory—assessor's data and building footprints
- Geohazard data
- HAZUS methodology for exposure and vulnerable populations/buildings.

## Data Formats:

- Tables
- Maps
- Descriptions
- GIS files

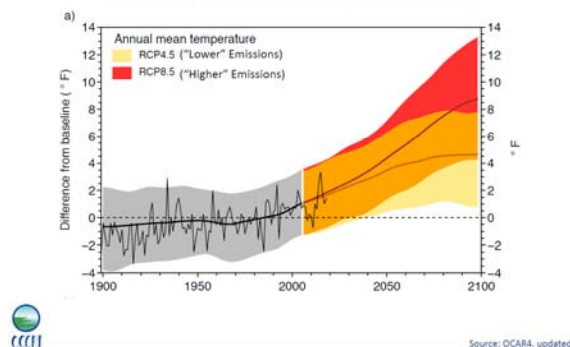
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# Climate change

Future conditions of the various hazards are important to consider.

## Oregon Annual Mean Temperature Future Projections & Observations



## Climate Metrics

Table 1 Natural hazards and related climate metrics evaluated in this project.

<b>Heavy Rains</b> Wettest Day • Wettest Five Days Landslide Threshold Exceedance	<b>Heat Waves</b> Hottest Day • Warmest Night "Hot" Days • "Warm" Nights
<b>River Flooding</b> Annual maximum daily flows Atmospheric Rivers Rain-on-Snow Events	<b>Cold Waves</b> Coldest Day • Coldest Night "Cold" Days • "Cold" Nights
<b>Drought</b> Summer Flow • Spring Snow Summer Soil Moisture Summer Precipitation	<b>Air Quality</b> Unhealthy Smoke Days
<b>Wildfire</b> Fire Danger Days	<b>Coastal Erosion &amp; Flooding</b> Sea Level Rise • Waves
<b>Ocean Temperature &amp; Chemistry</b>	
<b>Windstorms</b> Increased Invasive Species & Pests Loss of Wetland Ecosystems	

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# Curry County Hazard: Landslides

*Need identified: Landslide Mapping for Roads*



What can and should be done?

- Identify and map.
- Use current information to plan, design, regulate, inform.
- Comprehensive plans can identify landslides as a hazard.
- Zoning and building codes can have implementation measures.
- Raise public awareness.
- Avoid and Mitigate.



## PREPARING FOR LANDSLIDE HAZARDS

A LAND USE GUIDE  
FOR OREGON COMMUNITIES

September 2019

Curry NHMP Steering Committee Meeting – April 16, 2020

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# Curry County Hazard: Tsunamis

*Need identified: Evacuation routes, signage, drills*

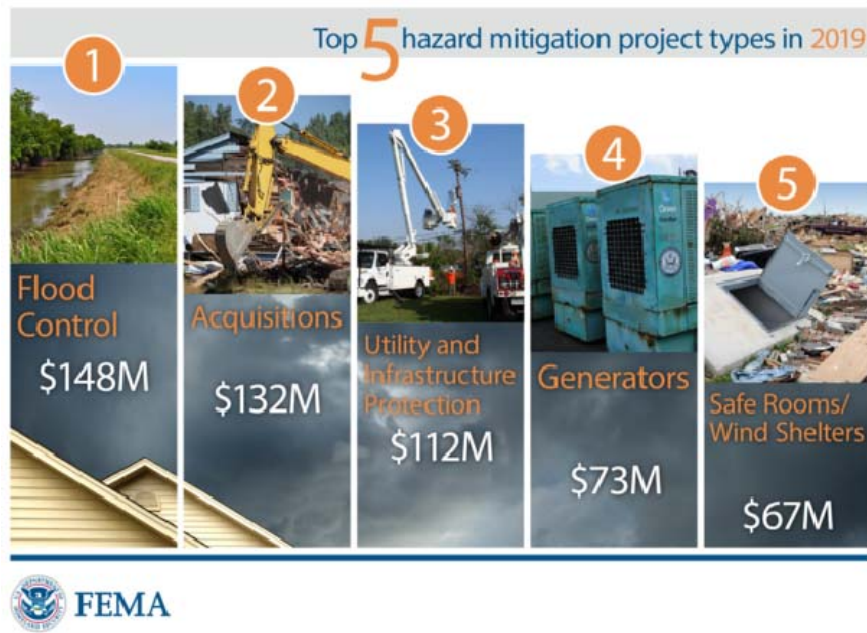


Mitigation Steps:

- Identify and map.
- Use current information to plan, design, regulate, inform.
- Comprehensive plans identify tsunamis as a hazard.
- Zoning and building codes have implementation measures.
- Raise public awareness.
- Coordinate with partners.
- Construct evacuation facilities.
- Install signage, lighting, assembly area infrastructure (Conex, etc.)

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## • REQUIREMENTS

- All hazards that affect jurisdiction—including history of events, probability of occurrence, and a summary of the community's vulnerability.
- NFIP—repetitive loss structures.

## • BEST PRACTICES

- Detailed hazard profiles
- Use of HAZUS and maps to present hazard locations and vulnerabilities.

# Hazard ID & Risk Assessment

Element B

Requirements & Best Practices



- **REQUIREMENTS**

- Plan documents each jurisdictions existing authorities, policies, programs and resources.
- **Set of mitigation actions for each jurisdiction**

- **BEST PRACTICES**

- Comprehensive set of actions.
- STAPLEE approach used to assess cost effectiveness.

## Mitigation Strategy

Element C

Requirements & Best Practices

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- **REQUIREMENTS**

- Plan reflects changes in development
- Plan reflects mitigation progress and changes in priorities

- **BEST PRACTICES**

- Plan documents how population changes contributes to the County's disaster vulnerability.
- Integration of hazards into comprehensive plans.

## Plan Integration, Evaluation, and Implementation

Element D

Requirements & Best Practices

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The most common reason NHMPs are sent back for revisions:

*How each jurisdiction was engaged and involved isn't clear.*

*Whole community sectors* as set forth in FEMA documents:

- Emergency management
- Economic development
- Land use and development
- Housing
- Health and social services
- Infrastructure
- Natural and cultural resources



## Build the Planning Team

Mitigation Planning within your Jurisdiction

### Proposed Coordinating Team

Planning Director/Policy Director

Facilities/Public Works

Fire/ Police/ EMS/ Sheriff

Outreach/Community Liaison

## • REQUIREMENTS

- Document – Document – Document
- Form an Internal Planning Committee
- Engage the Whole Community

## • BEST PRACTICES

- Website
- Public meetings to review the plan update before adoption
- **\*Review Outreach Matrix\* and identify the public engagement strategies your jurisdiction will use (or will likely use).**

# Planning Process

## Element A

### Requirements & Best Practices

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Curry County Multi-Jurisdictional Natural Hazards Mitigation Plan Update—Public Engagement Plan Matrix

Outreach Strategy	Curry County	Brookings	Gold Beach	Port Orford	Port of Brookings-Harbor	Port of Gold Beach	Port of Port Orford	Curry Fire Defense Board
<b>Steering Committee Meetings:</b> • 4-7 over the course of the project	X	X	X	X	X	X	X	X
<b>Public Meeting: Adoption Proceedings</b> The final plan must be formally adopted by all participating jurisdictions.	X	X	X	X	X	X	X	X
<b>Public Meeting: Draft Risk Assessment</b>								
<b>Public Meeting: Draft Mitigation Strategy</b>								
<b>Public Meeting: Board/Council Workshop*</b> <small>*Outreach to a jurisdiction's decision bodies does not usually meet the criteria for outreach.</small>								
<b>Public Meeting: Planning Commission*</b> <small>*Outreach to a jurisdiction's decision bodies does not usually meet the criteria for outreach.</small>								
<b>Public Meeting: Community presentations</b>								
<b>Public Meeting: Other</b>								
<b>Other:</b>								

FEMA Definitions: "PUBLIC": Businesses; neighboring communities; local and regional agencies involved in hazard mitigation activities; agencies that have the authority to regulate development; academia; and other private and non-profit interests.  
 "WHOLE COMMUNITY" sectors as set forth by FEMA: 1) Emergency management; 2) Economic Development; 3) Land Use and Development; 4) Housing; 5) Health and Social Services; 6) Infrastructure; and 7) Natural and Cultural Resources.

## Curry County MJNHMP Update—Public Engagement Plan

April 2020

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Outreach Strategy	Curry County	Brookings	Gold Beach	Port Orford	Port of Brookings-Harbor	Port of Gold Beach	Port of Port Orford	Curry Fire Defense Board
<b>WEBSITE:</b> Establish a website where citizens can review and comment on plan drafts, learn about how to prepare, and otherwise learn about natural hazards and the NHMP.								
<b>LEGAL NOTICES:</b> Create and publish legal notices for public meetings and other plan engagement opportunities via established media avenues (print, radio, and television).								
<b>EMAIL LIST:</b> Jurisdiction will establish an email list where citizens, businesses, and other interested parties can receive news about the plan update.								
<b>SOCIAL MEDIA:</b> Jurisdiction will establish, or use established social media outlets (Facebook, Instagram, etc.) to convey meeting times, hazard information, and news about the plan update.	X							
<b>UTILITY BILLS:</b> Jurisdiction will insert information about upcoming meetings and events into utility bills on a monthly or bimonthly cycle.								
<b>DISTRIBUTE TSUNAMI &amp; other HAZARD INFORMATION:</b> Provide information at booths or tables during public events; Deliver to local businesses; Display at Community Centers & Offices.								
<b>SURVEY:</b> Distribute NHMP survey via electronic or print methods; Return the results to Curry County in a timely fashion.								
<b>OTHER:</b>								

1. Emergency Management
2. Economic Development
3. Land Use & Development
4. Housing
5. Health & Social Services
6. Infrastructure
7. Natural and Cultural Resources

## FEMA Whole Community Stakeholders for Mitigation

## Next Steps:

Questions?

Pamela Reber

[pamela.reber@state.or.us](mailto:pamela.reber@state.or.us)

(503)934-0066

## COST SHARE

- Fill out & Turn in your forms!
- Send contact information for your financial official to Pam.

## NEXT MEETING

**July 23, 2020 9am-noon**

**Risk Assessment Meeting:**  
DOGAMI Risk Report