

## 2025 CHRN Annual Meeting

### Summary, Notes, and Speaker Slides



Photo: Art collage created by Annual Meeting Attendees. Prompt: What does resilience mean to you?

### Table of Contents

|  | Page           |
|--|----------------|
| <b>Overview</b>  | <b>2</b>       |
| <b>Summary</b>   | <b>3</b>       |
| <b>Challenge Hackathon Notes</b>   | <b>4</b>       |
| <b>Presentations:</b>  |                |
| 1. Uncertainty, Identity, and Patterns of Coastal Resilience (Steve Moddemeyer, Collinswoerman)  | <b>5-13</b>    |
| 2. Integrating Economic Resilience into Coastal Hazard Planning (Kevin Decker, WSG)  | <b>14-28</b>   |
| 3. Innovative State Agency Approaches to Climate and Energy Resilience (Deb Whitmer, WA COM)   | <b>29-35</b>   |
| 4. Introduction to the NOAA CRRC grant in WA (Jay Krienitz, Julia Stinson-Ebert, WA ECY)   | <b>36-55</b>   |
| 5. Scaling Coastal Resilience and Empowering Tribal Resilience through Adaptation Funding (Ryan Hasert, Carlie Stowe, Noelani Villa, UW CIG) | <b>56-73</b>   |
| 6. Building Capacity through the WA Sea Grant Coastal Resilience Fellowship (Becky Bronstein, WSG)   | <b>74-90</b>   |
| 7. Career Connect Washington Pathways for Coastal Resilience (Drew Cassidy, Daniel Salazar, CCW)   | <b>91-102</b>  |
| 8. SMA Rulemaking/SLR (Rebecca Rothwell, WA ECY)   | <b>103-115</b> |
| 9. Reflections from the HSIL 2024 SLR Fall Forum (Matt Lurie, WDFW)  | <b>116-129</b> |
| 10. Hoh Tribe Village Relocation Project Implementation (Cynthia Toop, Hoh Tribe)  | <b>130-146</b> |

## Overview

**Date:** Monday June 9th, 2025

**Location:** Lacey Community Center (Lacey, WA)

**Attendees:** 170 registered, 151 attended

### Overview of Organizations represented by registered attendees:

#### State Government

- Dept of Commerce
- Dept of Ecology
- Dept of Health
- Dept of Fish and Wildlife
- Dept of Natural Resources
- Dept of Transportation
- Employment Security Department
- Career Connect Washington
- Maine Coastal Program
- Padilla Bay National Estuarine Research Reserve
- Puget Sound Clean Air Agency
- Puget Sound Partnership
- Emergency Management Division
- State Parks
- Office of Governor Bob Ferguson

#### City/ County Government

- City of Bremerton
- City of Des Moines
- City of Ocean Shores
- City of Olympia
- City of Seattle
- City of Tacoma
- Seattle Public Utilities
- Island County
- King County
- Pierce County
- Snohomish County
- Thurston County
- Whatcom County
- Port of Bellingham
- Port of Port Townsend

#### Nonprofit

- EcoAdapt
- Long Live the Kings
- Surfrider Foundation
- The Water Institute
- Wash Away No More
- Long Live the Kings
- Pacific Education Institute

#### Tribal Government

- Hoh Indian Tribe
- Lummi Nation
- Port Gamble S'Klallam Tribe
- Skagit River System Cooperative
- Swinomish Indian Tribal Community
- Affiliated Tribes of Northwest Indians

#### Academia/Research

- University of Washington
- UW Climate Impacts Group
- WA Sea Grant
- Western Washington University
- Washington State University/ Extension
- Oregon State University
- Toronto Metropolitan University
- University of California, Santa Cruz
- Cascadia CoPes Hub

#### Private

- Baird
- CollinsWoerman
- Contour Consulting
- EcoAssets Environmental
- Environmental Science Associates
- Facet
- HDR
- Haley & Aldrich
- Herrera Environmental Consultants
- Moffat & Nichol
- Mott MacDonald
- Mithun
- Natural Systems Design
- Parametrix
- PWR LIO
- SBGH-Partners
- Taylor Shellfish

#### Federal Government

- FEMA
- NOAA
- USGS

#### Other

- Island County Marine Resources Committee
- Office of Congresswoman Emily Randall

## Summary

This year, one of the main focuses of the CHRN Annual Meeting was the new challenges we're facing with the uncertainty of federal funding and support for coastal resilience work. We were reminded that one of the best parts of CHRN is simply coming together in one room to reconnect, share ideas, and hear about the projects people are working on across the state.

From our post-event survey, we heard that the highlight of this year's meeting was the variety of activity sessions, from the Challenge Hackathon (notes on that below) to the roundtable discussions. We know from past meetings that in-person networking is often the most valuable part of this gathering, so we made it a priority to create both informal spaces to connect between speakers and structured opportunities to brainstorm and learn from one another during these sessions.

This year, the CHRN planning committee also aimed to take a more holistic approach to coastal resilience by bringing in speakers who explored coastal and climate resilience through different lenses. One of those speakers, Steve Moddemeyer, shared a line that resonated with many: *"Treat your audiences like geniuses and poets and they will become so."* We're looking forward to continuing to build on the work that everyone in the room is part of, reaching more people, and keeping this community strong.

## Challenges Identified at the Annual Meeting During the Challenge Hackathon Activity

### Themes:

#### 1. Capacity & Coordination Challenges

- a. Limited staffing and capacity to monitor, connect, and implement resilience measures across wide geographies
- b. Difficulty maintaining project continuity through staff turnover
- c. Lack of coordination among adjacent landowners and agencies needed for shared infrastructure projects
- d. Informal organizations lack legal/structural capacity to engage in long-term planning
- e. Limited engagement from key decision-makers or adversarial political environments

#### 2. Funding Barriers

- a. Difficulty aligning clean energy and resilience goals under current funding guidelines (e.g., gas generators)
- b. Few pathways for funding non-traditional or multi-benefit projects
- c. Large, expensive projects don't fit current grant models — need to be broken into achievable phases
- d. Local nonprofits and rural communities lack capacity to pursue or manage resilience funding
- e. Need for alternative funding strategies in the face of federal budget uncertainty

#### 3. Data, Tools & Planning Gaps

- a. Incomplete or missing spatial/coastal data (e.g., for planning, modeling, permitting)
- b. Need for clearer adaptation pathways and implementation steps after vulnerability assessments
- c. Lack of decision triggers or vetted adaptive scenarios
- d. Difficulty integrating and coordinating incomplete datasets
- e. Permitting (e.g., HPA) delays and confusion in implementation

#### 4. Communication & Community Engagement

- a. Difficulty communicating climate risks to shoreline residents and securing buy-in for non-armoring solutions
- b. Struggles to engage underserved communities across large geographic regions
- c. Need to educate private homeowners about erosion and climate resilience
- d. Questions like: "How are you going to help protect my property?" remain difficult to answer effectively
- e. Finding ways to discuss climate change in politically sensitive settings

#### 5. Institutional & Systems-Level Gaps

- a. Disconnect between state and local efforts (e.g., WSDOT and local hazard mitigation plans)
- b. Need for better connector/convening roles to align local and regional transportation, resilience, and planning goals
- c. Resistance from leadership to implement hazard mitigation or climate adaptation initiatives
- d. Poor land-use decisions from the past complicate present-day resilience strategies

#### 6. Education, Workforce & Long-Term Resilience

- a. Building employer and business support for workforce development in coastal communities
- b. Growing the future project funding system for long-term coastal hazards and resilience
- c. Developing educational programs that build public understanding and action around resilience
- d. How to inspire commitment from local partners for habitat protection goals (e.g., DNR's kelp and eelgrass efforts)

This Moment:  
**Uncertainty, Identity, and  
Patterns of Coastal  
Resilience**

Washington Coastal Hazard Resilience Network  
Annual Meeting

June 9, 2025

*“Treat your audience like poets and geniuses and that’s what they will become.”*

*-Del Close*

**Steve Moddemeyer**

Principal for Planning, Sustainability & Resilience

# This moment

## Look around

- Ecosystems, species, humanity, cities and towns last for generations – hundreds of years and longer
- We inherit the love, work, and sacrifices of previous generations
- Each generation tends to be driven by their needs of the present and their dreams of the future.
- Now it's our turn.
- What love, work, and sacrifices will we leave for those who follow us?

# Uncertainty

## Uncertainty, complexity, chaos

- We cannot know what will emerge during chaos and complexity, so
  - Yes! Create a simple structure to orient ourselves
  - No! Do not fool ourselves with false certainty

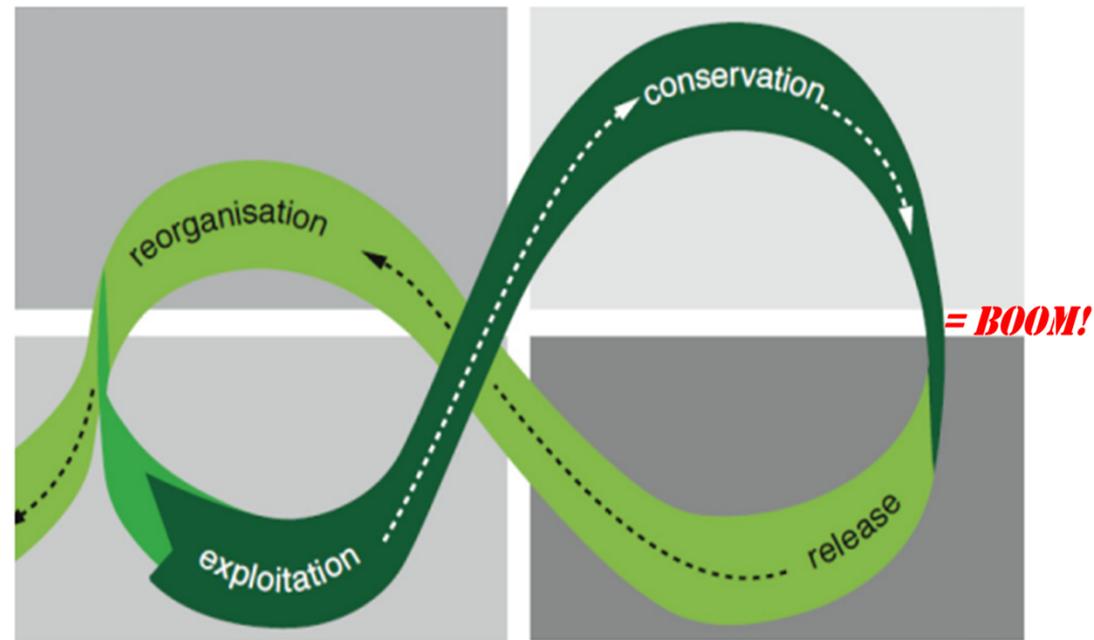
## What to do

- Leave options open and build in adaptability
- Phase expensive investments
- Anticipate: what we build will fail
- Choose alternatives that speed recovery when they do fail

# Identity

## The stories we tell ourselves about ourselves

- Resilient systems go through multiple rounds of growth, collapse, and reorganization and maintain their identity
- Non-resilient systems lose their identity or transform to something different
- Our values inform our identity



# Patterns of coastal resilience

## **Create the patterns that can be replicated once future conditions are revealed**

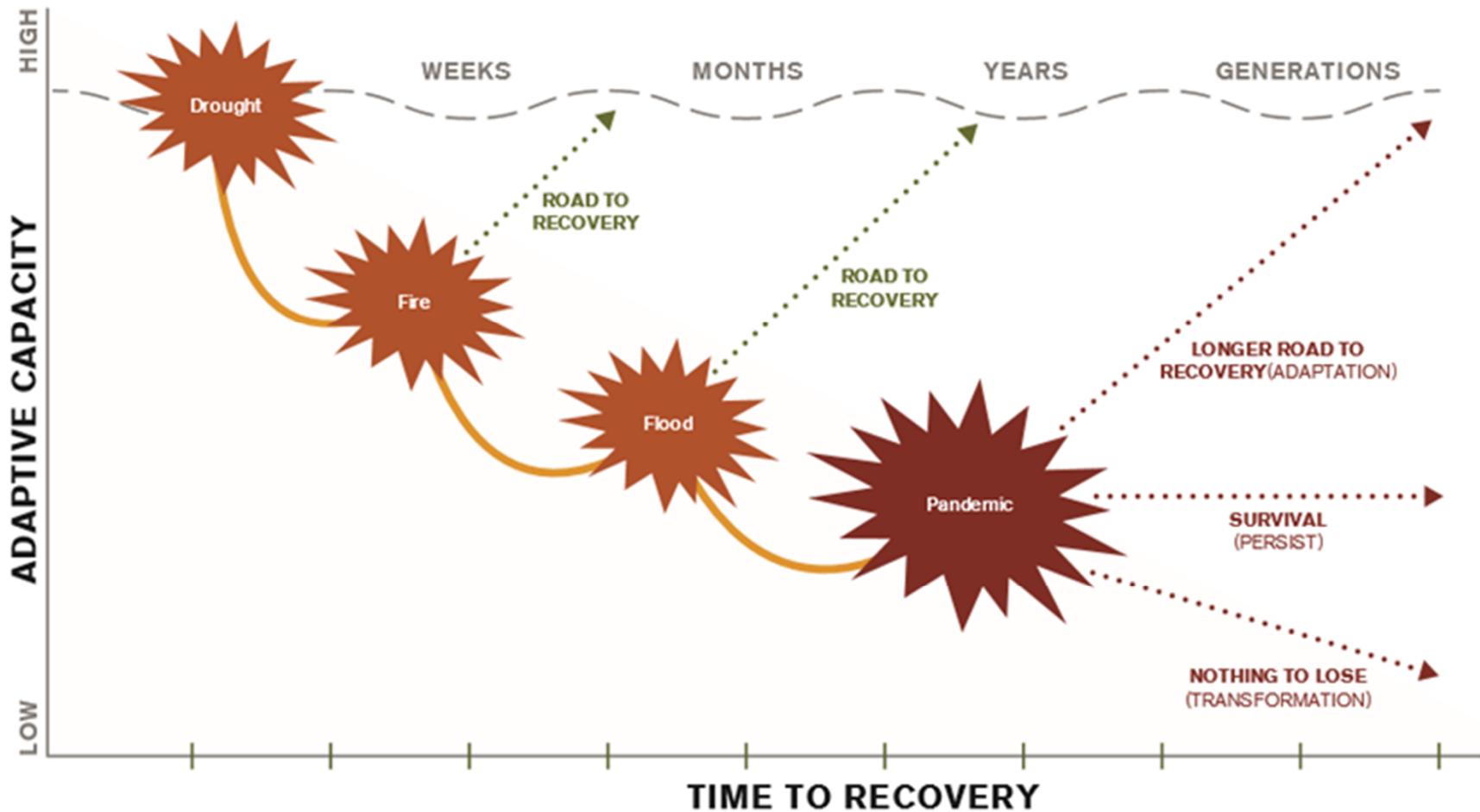
- Value planning uses local values to rise above battles over solutions
- We facilitate ideation, then test and expand the ideas by applying their values
- Together we develop plausible, integrated, locally-owned initiatives that reflect the broadest range of local values
- Small wins create the patterns that can be adopted wholesale when opportunity emerges

# Attributes of resilient systems



# Compounding disasters

Compounding Natural Disasters



Thank you!



# INTEGRATING ECONOMIC RESILIENCE INTO COASTAL HAZARDS PLANNING

**Sea**   
**Grant**  
WASHINGTON

Presented By:  
**Kevin Decker, Ph.D**  
**Coastal Economist**  
**Coastal Resilience Team Lead**



# Why Economic Resilience



Businesses

Investment

Jobs

Connectedness

Taxes

Wealth

# Resilience VS Valuation

## Resilience

The ability of an economy to withstand, adapt to, and recover from coastal hazards



## Valuation

Placing a dollar value on the benefits of a project, the cost of inaction, or the benefits of ecosystem services.



# Strategies of Economic Resilience

Diversification

Existing Economy

Redundancy

Adaptation



# RURAL RESILIENCE PARADOX



# **WHAT DOES THIS LOOK LIKE IN PRACTICE?**

# Engage

County  
Commissioners

Tribal  
Enterprises

Advisory  
Boards

EDCs

Ports

Create  
your own

Chambers  
of Commerce

EDDs



# Vulnerability Assessment



# Identify and Prioritize Strategies



**Summarize vulnerabilities**

**Develop Strategies**

**Evaluate and Prioritize Strategies**

**Develop an Implementation Plan**





# Find Funding

Make the business case for resilience

Develop a Resilience Capital Strategy

Bonds

Corporate Grants

Capital  
Improvement  
Projects

Owner Cost/Share Agreements

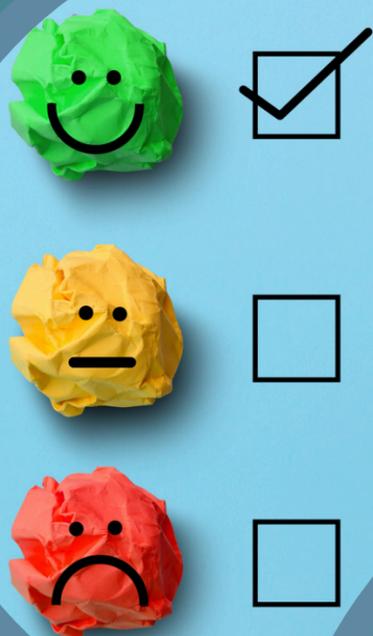
Special Taxing Districts

Philanthropy

Resilience Impact Fees



# Evaluate Results and Refine Methods



CONTINUOUS  
IMPROVEMENT



## Measure the things that you do...

- Projects completed
- Meetings held
- Products developed
- People educated
- Businesses that adapt

## Measure the outcomes...

- Policies changed
- Behavior changed
- Infrastructure built
- Buildings protected
- Species habitat restored

# Toolkits



EPA: Planning Framework for a Climate-Resilient Economy (2016)

\*EPA Regional Resilience Toolkit: 5 Steps to Build Large Scale Resilience to Natural Disasters (2019 )



FEMA: A Guide to Supporting Engagement and Resiliency in Rural Communities (2020)

FEMA

EDA: Comprehensive Economic Development Strategy and Hazard Mitigation Plan Alignment Guide (2022)

EDA

U.S. ECONOMIC DEVELOPMENT ADMINISTRATION



# Examples

**Ocosta Elementary Tsunami Vertical Evacuation**

**North Cove Dynamic Revetment**

**Elwha Dam Removal and River Restoration**

**Snohomish Conservation District Flood Resilience  
and Farmland Protection\***



# Key Takeaways

## Steps to integrate Economic Resilience

Engage  
Vulnerability Assessment  
Strategize & Prioritize  
Fund  
Measure

## Strategies will...

Diversify the economy  
Protect the existing economy  
Develop redundant infrastructure  
Implement adaptation





# THANK YOU

Dr. Kevin Decker  
Washington Sea Grant  
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WACoastEconomist.com

Sea   
Grant  
WASHINGTON

# Climate/Energy Resilience and Innovative State Agency Approaches

Coastal Hazards Resilience Network Annual  
Meeting

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Deborah Witmer

SENIOR PROGRAM MANAGER,

ENERGY RESILIENCE & EMERGENCY MANAGEMENT OFFICE

JUNE 9, 2025



Washington State  
Department of  
**Commerce**

# We strengthen communities



HOUSING AND HOMELESSNESS



INFRASTRUCTURE AND BROADBAND



SMALL BUSINESS ASSISTANCE



ENERGY



PLANNING AND TECH ASSISTANCE



COMMUNITY SERVICES



CRIME VICTIMS AND PUBLIC SAFETY



ECONOMIC DEVELOPMENT

# Innovation at Commerce

Funding

Planning

Technical Assistance



# Funding

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- Acknowledge we don't have answers about the direction of federal funding AND we can't expect that past funding will return in the future.
- Confirm the State's goals, priorities, and values have not changed, regardless of changes on the federal level.
- Realize the allocation of Climate Commitment Act funding will be more competitive.
- Consider that private funding and public/private partnerships can be alternatives.
- Washington's Green Bank: [Home - Washington State Green Bank](#)

# Planning

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- Now is NOT the time to give up – now is the time to PLAN!
- Planning activities like community outreach, education, and engagement bring additional benefits beyond one, specific project. Keep doing them!
- The more ideas and community support you are able to generate in the meantime, the better prepared your community will be when the funding opportunity you need becomes available.

# Technical Assistance

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## Energy Resilience Technical Assistance Program

Kate Pedersen

(206) 454-2205

[Kate.Pedersen@commerce.wa.gov](mailto:Kate.Pedersen@commerce.wa.gov)

**Thank you!  
Please reach out  
if our Team can  
be of any  
assistance.**



Washington State  
Department of  
**Commerce**

[www.commerce.wa.gov](http://www.commerce.wa.gov)

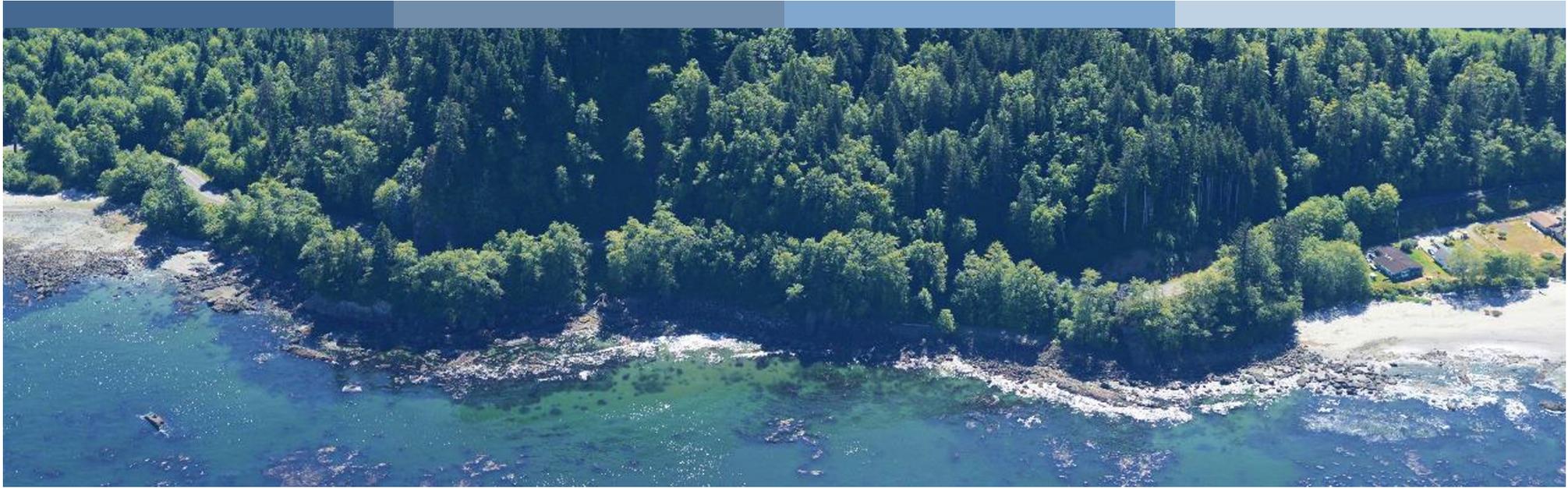


Deb Witmer

SENIOR PROGRAM MANAGER, ENERGY RESILIENCE & EMERGENCY MANAGEMENT (EREMO)

[Deborah.Witmer@commerce.wa.gov](mailto:Deborah.Witmer@commerce.wa.gov)

206-454-2214



# The Washington State Coastal Climate Resilience Regional Challenge (CRRC) Award

Presentation for the  
Coastal Hazards Resilience  
Network

**Julia Stinson Ebert (she/her)**  
Coastal Resilience Partnership Planner  
**Jay Krienitz (he/him)**  
Lead PI and Coast and Ocean Unit Manager

Ecology Project Team: Julia Stinson Ebert, Jay Krienitz, Henry Bell, Olivia Zimmerman, Noah Linck (and Bobbak Talebi)  
NOAA Team: Maravilla Clemens, Aubrey Tingler, (and many others)



# Project Team & Partnership

## Direct Funding Recipients:

- Washington State Department of Transportation
- Washington Department of Fish and Wildlife
- Washington State Employment Security Department
- Washington Department of Natural Resources
- University of Washington Climate Impacts Group
- Samish Indian Nation
- Tulalip Tribes
- Snohomish County
- Snohomish Conservation District
- Pacific Conservation District
- Washington Sea Grant
- Friends of the San Juans

12  
funded  
partners

## Supporting organizations and partners:

- Makah Tribe
- Affiliated Tribes of Northwest Indians
- Puget Sound Partnership
- Recreation and Conservation Office
- Washington Department of Commerce
- Washington Emergency Management Division
- Washington State University
- Washington Department of Health
- The Nature Conservancy
- Willapa Erosion Control Action Now (WECAN)
- South Whidbey Basin Partnership
- Grays Harbor Conservation District
- City of Westport
- Ducks Unlimited
- Laidlaw Hunting Club
- American Rivers
- Bonneville Environmental Foundation

Many  
collaborating  
partners

# \$575 Million Across the Nation



## CLIMATE RESILIENCE REGIONAL CHALLENGE PROJECT LOCATIONS

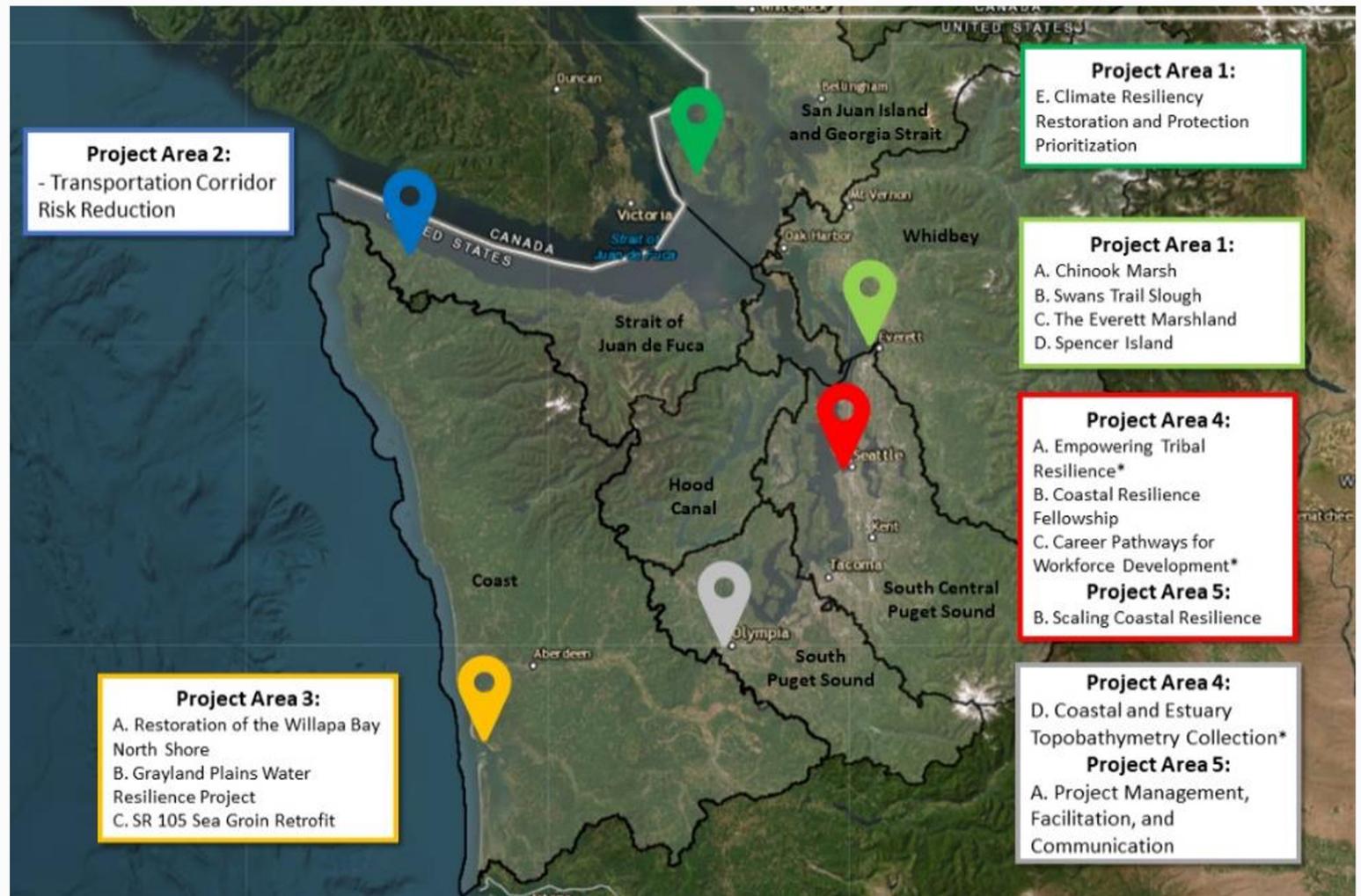


### Total Recommended Funding

1. Alaska  
\$78,949,515
2. Hawaii  
\$68,497,799
3. U.S. Virgin Islands  
\$69,000,000
4. Federated States of Micronesia  
\$2,000,000
5. Maine  
\$69,008,683
6. Rhode Island  
\$1,999,777
7. New Jersey  
\$72,493,440
8. Virginia  
\$1,973,267
9. Louisiana  
\$59,779,974
10. California  
\$71,100,000
11. Washington  
\$75,587,097
12. Minnesota  
\$1,849,228
13. Wisconsin  
\$1,451,065
14. Ohio  
\$1,310,142

NOAA OFFICE FOR COASTAL MANAGEMENT

73.6 million  
across  
Washington



# Chinook Marsh

| Project Lead     | Location                | Project Type                               | Subaward amount |
|------------------|-------------------------|--|-----------------|
| Snohomish County | Snohomish River Estuary | Construction, Habitat and flood mitigation | \$16.2 million  |

# Swan's Trail Slough

| Project Lead                    | Location                | Project Type                                  | Subaward amount |
|---------------------------------|-------------------------|---|-----------------|
| Snohomish Conservation District | Snohomish River Estuary | Construction, habitat and farmland protection | \$2 million     |

# Everett Marshlands

Image: Tulalip Tribes

| Project Lead       | Location                | Project Type   | Subaward amount |
|--------------------|-------------------------|--|-----------------|
| The Tulalip Tribes | Snohomish River Estuary | Planning and design, restoration and infrastructure protection | \$500,000       |

# Spencer Island Public Access Improvement

| Project Lead                               | Location                | Project Type                                      | Subaward amount |
|--|-------------------------|---|-----------------|
| Washington Department of Fish and Wildlife | Snohomish River Estuary | Construction, trail improvement and accessibility | \$2 million     |

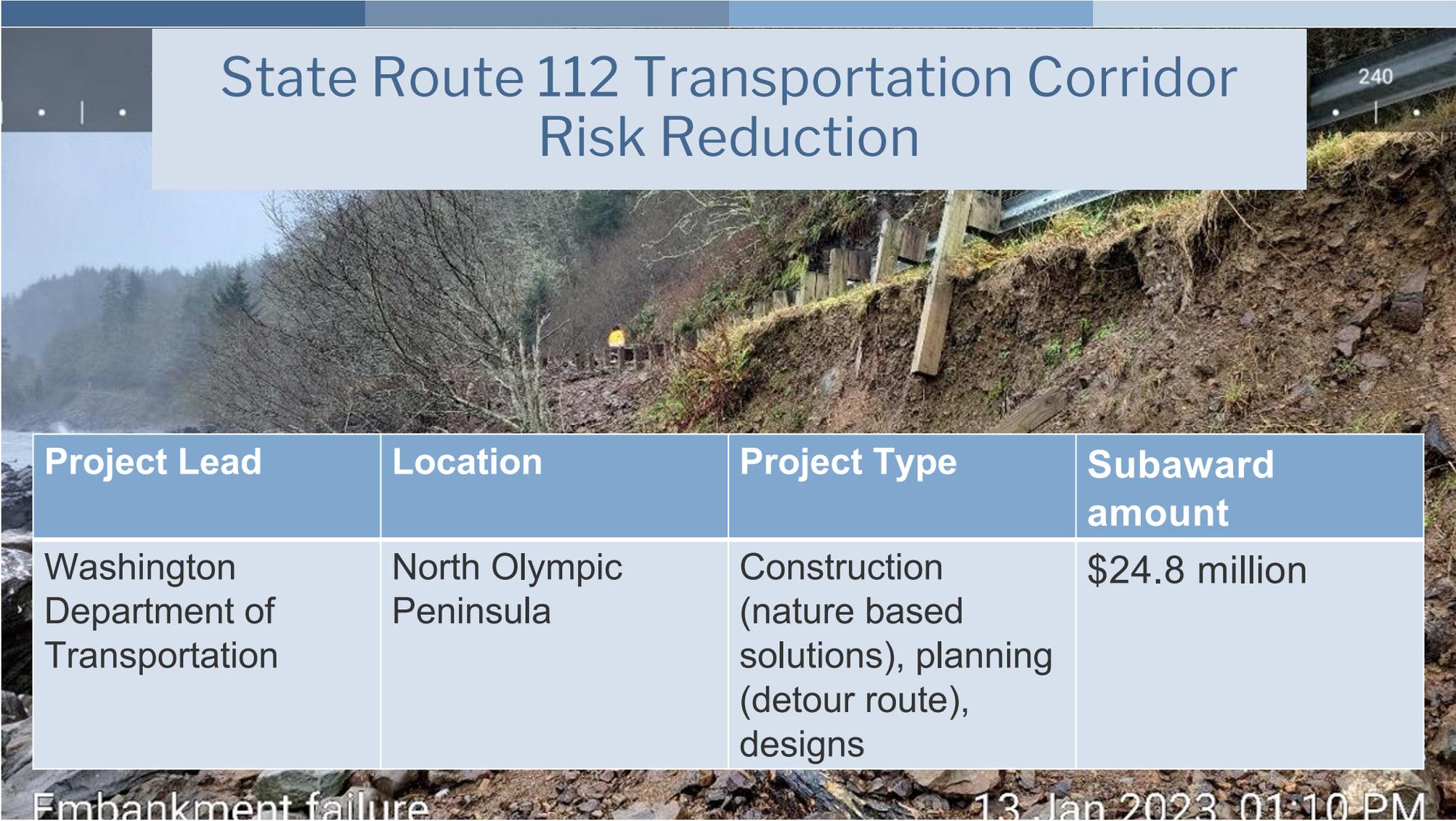
Image: WDFW

# Climate resiliency restoration and Tribal cultural resources protection

| Project Lead                                    | Location         | Project Type                          | Subaward amount |
|---|------------------|---------------------------------------|-----------------|
| Samish Indian Nation & Friends of the San Juans | San Juan Islands | Planning; mapping, framework building | \$498,947       |

Image: USFWS

# State Route 112 Transportation Corridor Risk Reduction

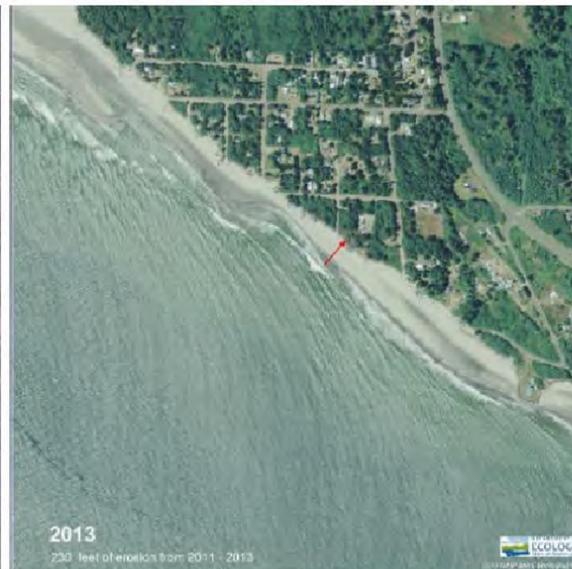


| Project Lead                            | Location                | Project Type  | Subaward amount |
|---|-------------------------|---|-----------------|
| Washington Department of Transportation | North Olympic Peninsula | Construction (nature based solutions), planning (detour route), designs | \$24.8 million  |

Embankment failure

13 Jan 2023 01:10 PM

# Restoration and Recovery of the Willapa Bay North Shore



| Project Lead                  | Location                   | Project Type                          | Subaward amount |
|-------------------------------|----------------------------|---------------------------------------|-----------------|
| Pacific Conservation District | Pacific Coast, Willapa Bay | Construction, shoreline stabilization | \$12.7 million  |

# Grayland Plains Water Resilience Project



| Project Lead                  | Location                | Project Type        | Subaward amount |
|-------------------------------|-------------------------|---------------------|-----------------|
| Pacific Conservation District | Pacific Coast, Grayland | Planning and design | \$1.3 million   |

Images: Grays Harbor County Drainage Ditch No



# State Route (SR) 105 Sea Groin Retrofit

| Project Lead                            | Location              | Project Type | Subaward amount |
|---|-----------------------|--------------|-----------------|
| Washington Department of Transportation | Pacific Coast, SR 105 | Design       | \$229,000       |

# Coastal Washington Ecosystem Resilience Program (CWERP)

| Project Lead                               | Location      | Project Type            | Subaward amount |
|--|---------------|-------------------------|-----------------|
| Washington Department of Fish and Wildlife | Pacific Coast | Monitoring and analysis | \$375,000       |

Image: Nora Panian/USEWS

# Empowering Tribal Resilience through Low-Barrier Adaptation Funding and Services

| Project Lead                                   | Location                   | Project Type           | Subaward amount |
|--|----------------------------|------------------------|-----------------|
| University of Washington Climate Impacts group | Statewide (coastal Tribes) | Tribal capacity grants | \$3.1 million   |



**CLIMATE ADAPTATION BARRIERS AND NEEDS EXPERIENCED BY NORTHWEST COASTAL TRIBES**

Key Findings from Tribal Listening Sessions  
AUGUST 2024



# Coastal Resilience Fellowships and Transdisciplinary Climate Resilience Training Program



| Project Lead                                | Location  | Project Type          | Subaward amount   |
|---|-----------|-----------------------|---|
| Washington Sea Grant, Climate Impacts Group | Statewide | Fellowships, training | \$3.4 million (fellowships)<br>\$589,000 (training program) |



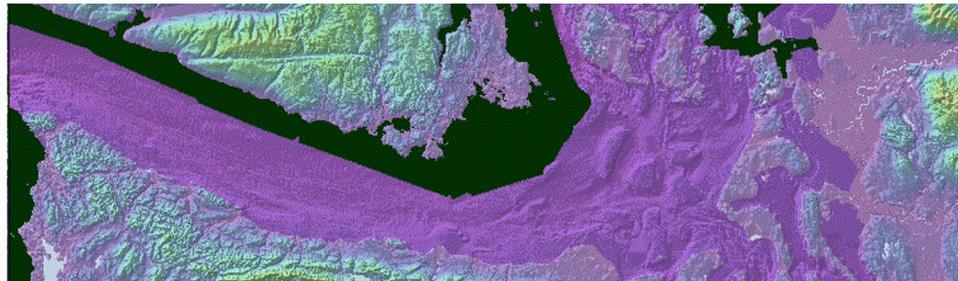
# Career Pathways for Workforce Development

| Project Lead  | Location  | Project Type                           | Subaward amount |
|---|-----------|--|-----------------|
| Employment Security Department, Career Connect Washington | Statewide | Workforce development, career pathways | \$1.2 million   |

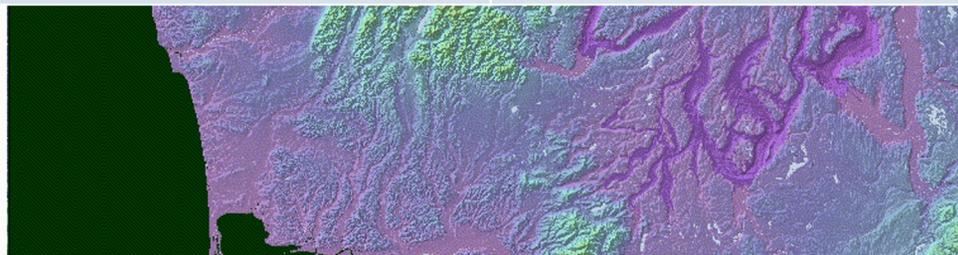




# Coastal and Estuary Topobathymetry Collection and Statewide Distribution Pilot



| Project Lead                               | Location                     | Project Type               | Subaward amount |
|--|------------------------------|----------------------------|-----------------|
| Washington Department of Natural Resources | Statewide (6 coastal rivers) | Lidar surveys, data viewer | \$1.7 million   |



# Scaling Coastal Resilience

| Project Lead                                      | Location  | Project Type        | Subaward amount |
|---|-----------|---------------------|-----------------|
| University of Washington<br>Climate Impacts group | Statewide | Research and policy | \$647,000       |





# Thank you!

Project manager and partnership planner:

**Julia Stinson Ebert**

**Email: [jseb461@ecy.wa.gov](mailto:jseb461@ecy.wa.gov)**

**Read the blog:**

**<https://ecology.wa.gov/blog/august-2024/big-investments-boost-washington-s-coastal-resiliency>**

# Scaling Coastal Resilience Governance: Insights and Lessons from Washington State

Prepared by: Ryan Hasert, Carlie Stowe, Jason Vogel  
June 9, 2025



## Working Definitions



**Coastal Resilience:** “A resilient community is able to thrive in the present, adapt to challenges, and even transform as necessary to meet future threats or opportunities.”

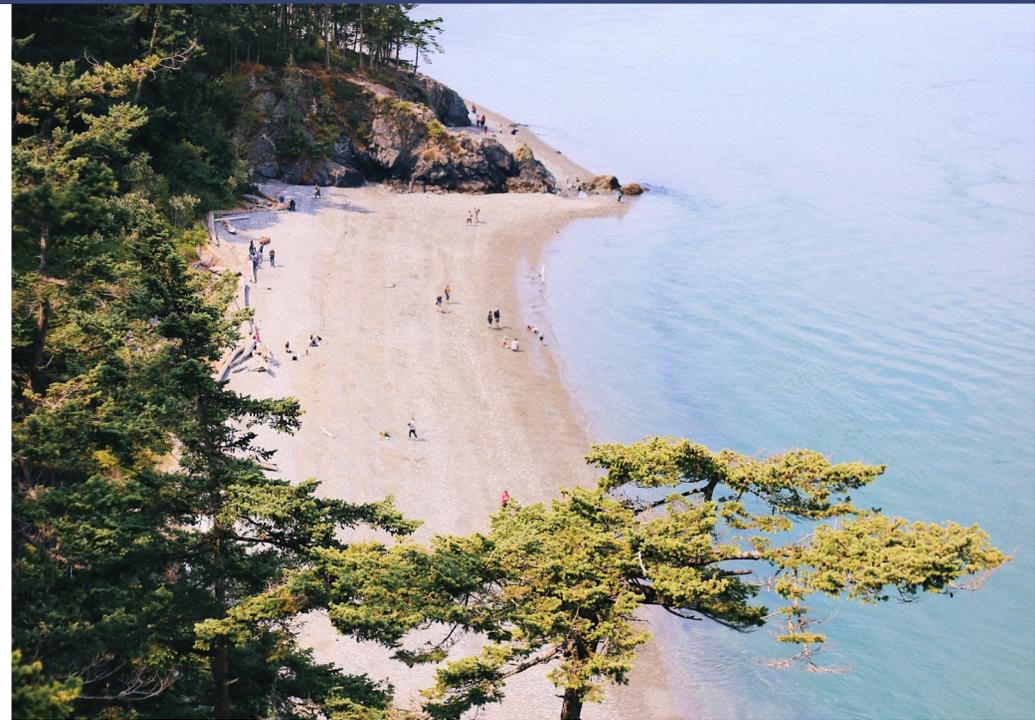
**Governance:** The institutions, structures, processes and relationships that enable or constrain management actions.

1. Washington State Coastal Resilience Assessment, 2017



## ***Project Goal Statement:***

Provide actionable knowledge on coastal resilience governance practices to inform Washington State's coastal resilience work and ensure that lessons learned from the Initiative's projects provide ongoing benefits to other coastal communities.



## **Objective 1. State-of-the-field coastal governance assessment:**

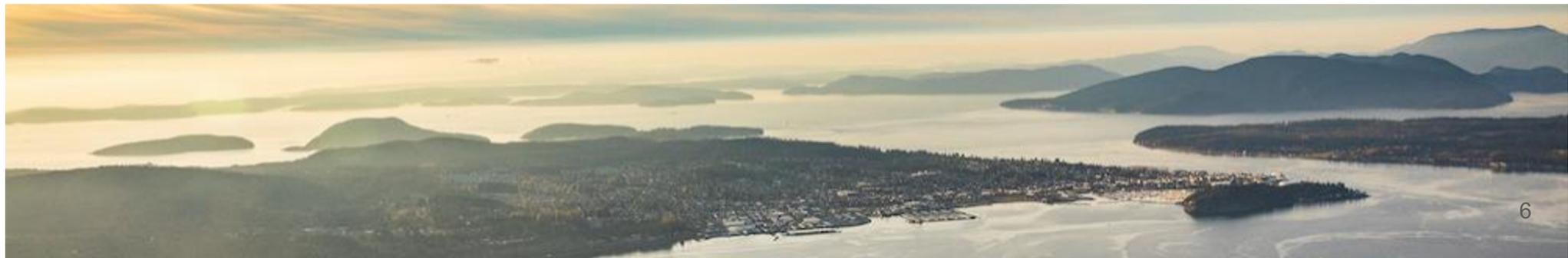
Develop a baseline knowledge of the state-of-governance for coastal socio-ecological systems (SES) in Washington to inform Partnership participants and subsequent research objectives.



**Objective 2. Completed project case studies:** Develop case studies on up to 10 completed coastal resilience projects that examine governance related elements of the projects and showcase a range of positive coastal resilience outcomes across a diversity of communities.



**Objective 3. Project implementation case studies:** Document implementation of the Initiative's projects by conducting a longitudinal implementation study identifying successes and challenges each collaborating project encounters, focusing particularly on the governance elements of the coastal SESs of each project.



**Objective 4. Partnership case study:** Conduct a longitudinal implementation study of the Washington State Coastal Climate Resilience Partnership to document best practices and factors that contribute to effective co-governance of coastal resilience projects.



## Our Approach



**We aim to contribute to solutions to real problems experienced by people working and living in the coastal zones in Washington.** This effort is meant to be a practically grounded assessment focused on identifying good practices for making progress on coastal resilience projects under real-world conditions.



Carlie Stowe - [stowec@uw.edu](mailto:stowec@uw.edu)

Ryan Hasert - [rhasert@uw.edu](mailto:rhasert@uw.edu)

Jason Vogel - [jmvogel@uw.edu](mailto:jmvogel@uw.edu)

**Stay in touch!**  
Add your name to  
our contact list:



**W** EARTHLAB  
UNIVERSITY of WASHINGTON



# Empowering Tribal Resilience through Adaptation Funding and Technical Assistance

**Noelani Villa**, Tribal Climate Adaptation Specialist  
Climate Impacts Group, University of Washington



**W** EARTH LAB  
UNIVERSITY of WASHINGTON



# Tribes need climate adaptation funding and technical assistance



CLIMATE ADAPTATION BARRIERS  
AND NEEDS EXPERIENCED BY  
NORTHWEST COASTAL TRIBES

Key Findings from  
Tribal Listening  
Sessions

AUGUST 2024



## Funding needs include:

- More generalized and flexible funding
- Funding aligned with Tribal priorities

## Technical assistance needs include:

- Increased access to climate expertise, services, and data
- Increased internal capacity and expertise for long-term resilience

# We are responding with a small-grants program and technical support



## **Tribal Small-Grants Program**

Help alleviate near-term funding and capacity constraints

## **Tribal Climate Adaptation Specialist**

Manage grants program and provide technical assistance

## We co-designed the small-grants program with Tribal partners

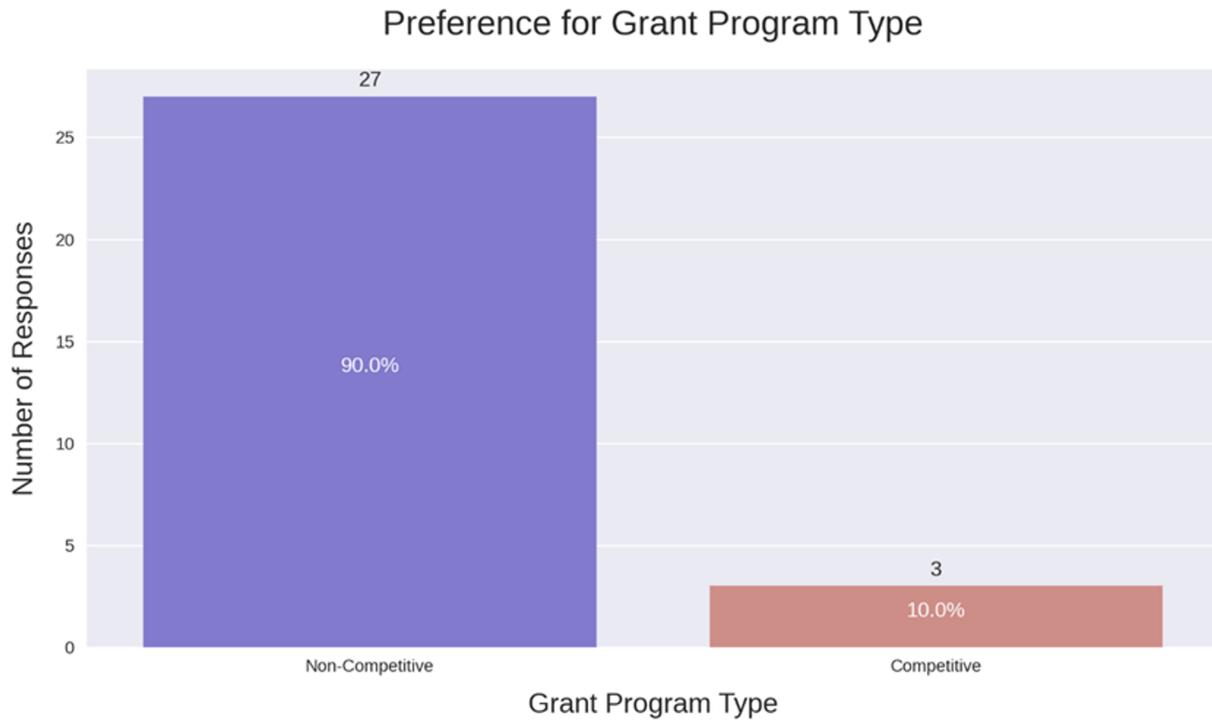


We **conducted a survey** of Tribal leaders and DNR managers to understand their preferences regarding:

- Grants structure
- Timeline
- Reporting

We also **completed phone interviews** with interested survey participants

# Survey respondents strongly preferred non-competitive grants



“A non-competitive grant structure is nice because you know there is money at the end of the tunnel.”

# Washington Coastal Resilience and Adaptation Funding for Tribes (WA-CRAFT)



**Non-competitive**

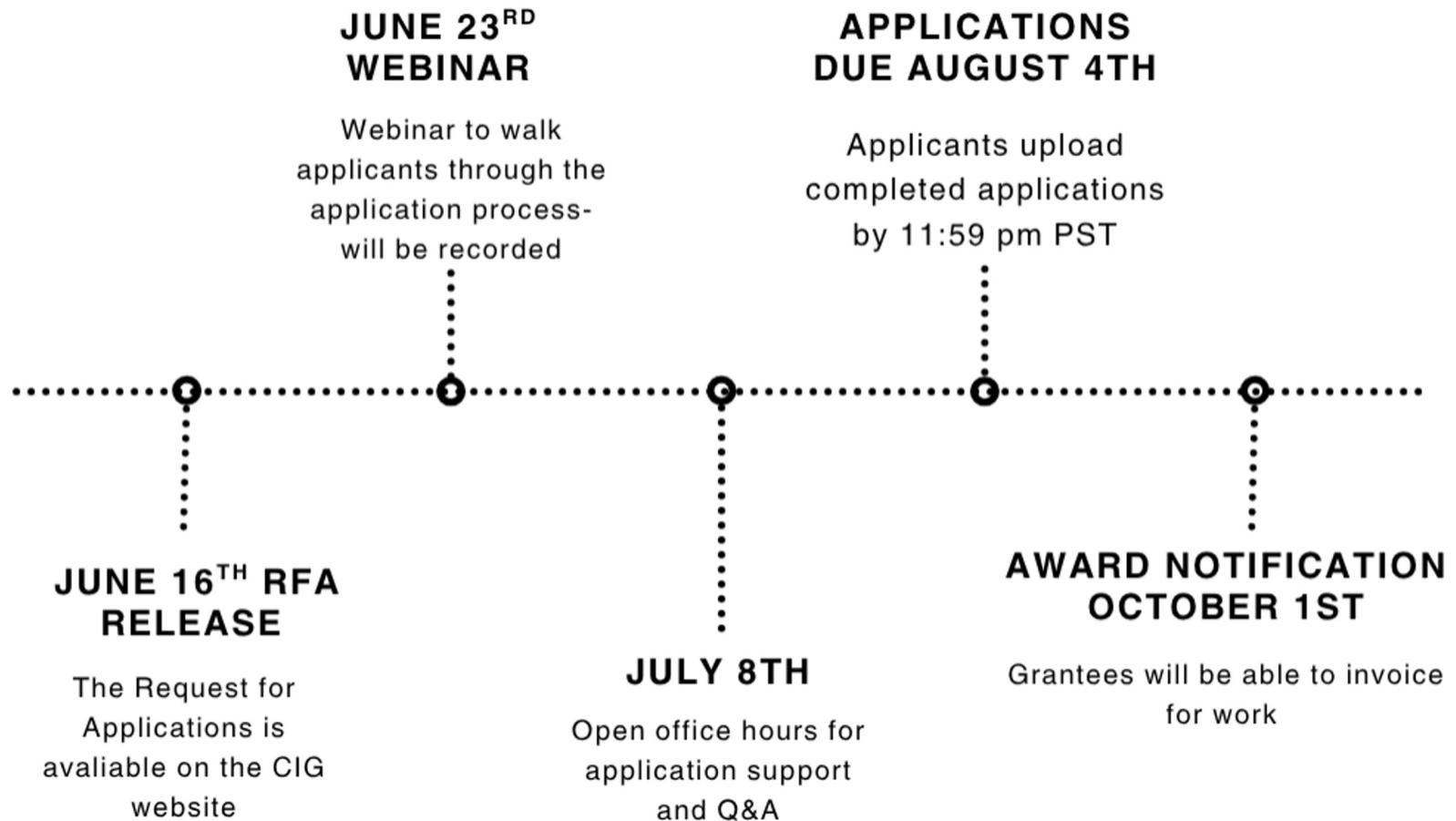


**Tribally defined  
scope and metrics  
of success**

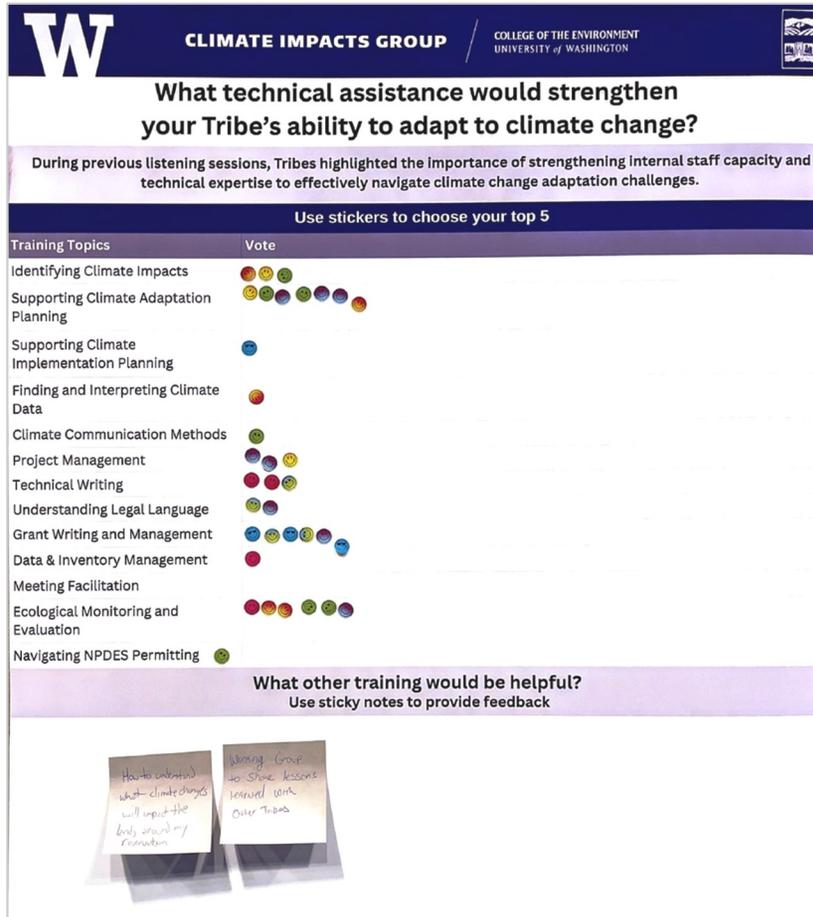


**Minimal reporting**

# We aim to notify recipients of WA-CRAFT awards by October 1st



# We conducted outreach to understand Tribes' technical assistance needs



## We gathered feedback via:

- An online survey
- Attendees at the Affiliated Tribes of Northwest Indians (ATNI) mid-year convention

## Coming soon!

- Technical assistance webpage with intake form

**Contact:**  
**Noelani Villa**  
**noelaniv@uw.edu**



**W** EARTHLAB  
UNIVERSITY of WASHINGTON





# Building Capacity through the Washington Sea Grant Coastal Resilience Fellowship

**Becky Bronstein**  
beckyb23@uw.edu



**Sea Grant**  
WASHINGTON

# Agenda

- Why Fellowships?
- Coastal Resilience Fellowship
  - Overview
  - Development Inputs
  - Goals
  - Hosts
  - Fellows



# Raise Your Hand If...

- You were once a fellow and/or...
- You've mentored a fellow and/or...
- You've worked with a fellow!



# Why Fellowships?

- Build a diverse ocean workforce
- Access to positions, projects, spaces and processes not typically available in an entry level position
- Intentional mentorship
- Extensive networking opportunities
- Dedicated professional development funds

# Why Fellowships?

Since 2018 WSG has awarded:

- Over **\$5.8 Million** in fellowships
- To **129 students** working to address prominent coastal issues
- In partnership with **58 Tribal, state, federal and nonprofit organizations.**

# Fellowships



**John A. Knauss  
Marine Policy  
Fellowship**



**WSG  
Hershman  
Fellowship**



**WSG  
Keystone  
Fellowship**



## **Applications Open Winter/Spring 2025**

- WSG Hershman Fellowship
- WSG Keystone Fellowship
- **WSG Coastal Resilience Fellowship**
- WSG Science Communications Fellowship
- Washington Applied Sustainability Internship (WASI)

## **Applications Open Fall 2025**

- Dean John A. Knauss Marine Policy Fellowship
- Sea Grant-NOAA Fisheries (NMFS) Fellowship
- NOAA Coastal Management & Digital Coast Fellowships
- WSG Puget Sound Science Graduate Research Fellowship

# Overview

- 2-year terms, funded for 3 cycles
- Climate Resilience Regional Challenge funds (IRA)
- Capacity-building for coastal resilience
- 2025 = Inaugural/pilot cohort
- Driven by community projects
- Initial focus on Pacific Coast and with local entities
- ***No cost to hosts!***



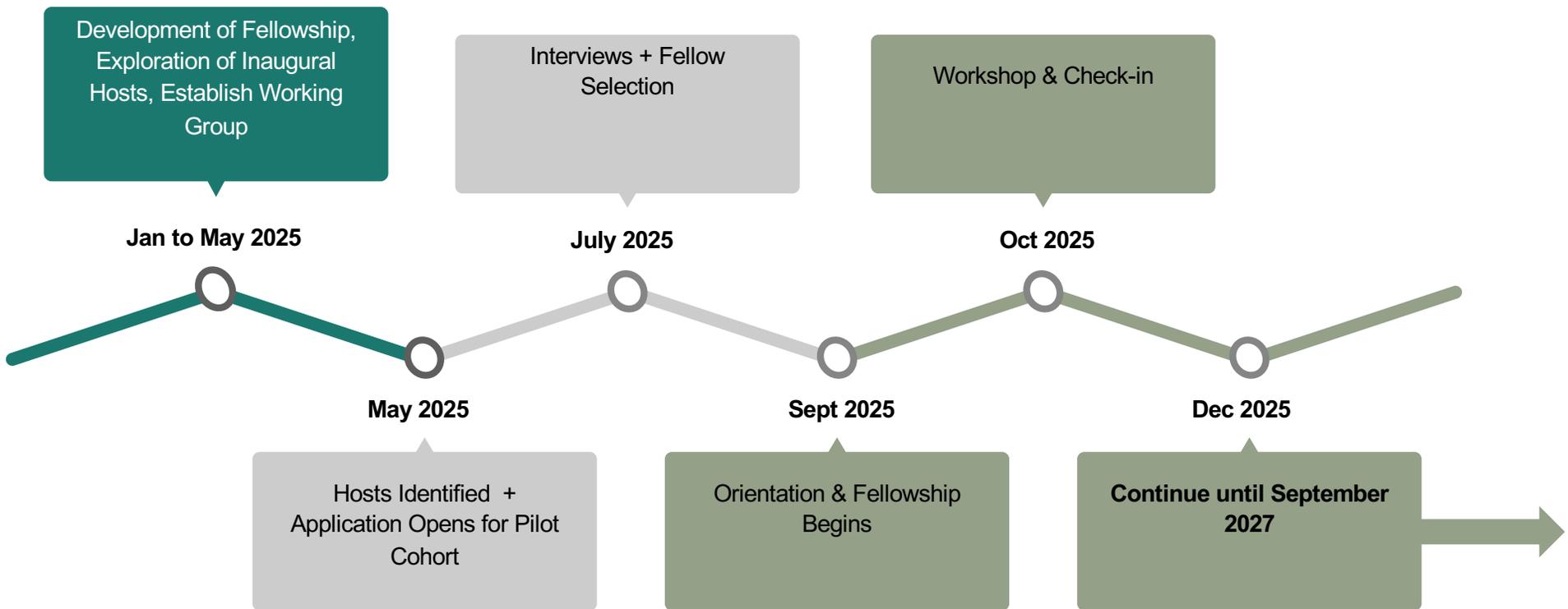
# Collaborations

- Extensive engagement efforts
- Discussions with WSG Staff, partners, prospective host organizations
- Analysis of other fellowships (WSG, other Sea Grant programs, other programs)
- Fellow alumni feedback
- Ongoing meetings with the WSG Coastal Resilience Team, COHORT
- Established CRF Working Group that meets at least monthly

# Capacity Building Goals

- **Coastal Communities** - Coastal communities gain culturally-responsive coastal resilience support. Fellows provide their expertise, lived and learned, to their particular project(s).
- **Fellows** - Fellows develop their personal and professional skills for a career in coastal resilience through ongoing mentorship, professional learning activities, and networking with partners.
- **Greater Network** - The greater coastal resilience network nurtures relationships to maintain a vibrant web of partnerships.

# 2025



# Host Eligibility

- Tribes, local nonprofits, municipalities, special districts, conservation districts, and other local entities working on projects focused on coastal resilience
- For the first cohort, we're focusing on organizations on the Pacific Coast
- We received 14 competitive applications

# 2025-27 Host Organizations

- Chinook Indian Nation & Columbia Land Trust
- North Olympic Development Council
- Pacific Conservation District
- Shoalwater Bay Indian Tribe
- Quinault Indian Nation

# Types of Projects/Skills

- Community engagement and meeting facilitation
- Grant writing
- Strategic project planning
- GIS Mapping
- Action planning for community resilience and safety (ex. creating safer and more clear evacuation routes)

# Who is Encouraged to Apply?

- Individuals who...
  - Have lived, worked, or learned on Washington's Pacific Coast and/or have coastal resilience experience from other coastal regions.
  - Are early or shifting in their career and looking to develop professionally in coastal resilience.
  - Are looking to contribute their capacity, skills, and experience to coastal communities on coastal resilience projects.
- DACA students are eligible to apply. BIPOC as well as representatives of the LGBTQ+ community, and allies are encouraged to apply for this opportunity.

# Key Dates

- *April 16: Host application due*
- *Early May: Hosts identified*
- *May 19: Fellow application opened (Your outreach is appreciated!)*
- June 18: Fellow application closes
- July 8-10: Fellow interviews (Hosts join)
- Mid-July: Fellows notified
- Sept 15: Fellowship begins
- Sept 15-19: Fellow orientation and learning institute (in collaboration with UW Climate Impacts Group)



Thank You!

Becky Bronstein  
beckyb23@uw.edu





# NOAA Climate Resilience Regional Challenge (CRRC) CCW Career Pathways for Coastal Resilience

June 9, 2025

Coastal Hazards Resilience Network Annual Meeting

Drew Cassidy & Daniel Salazar

# Welcome!

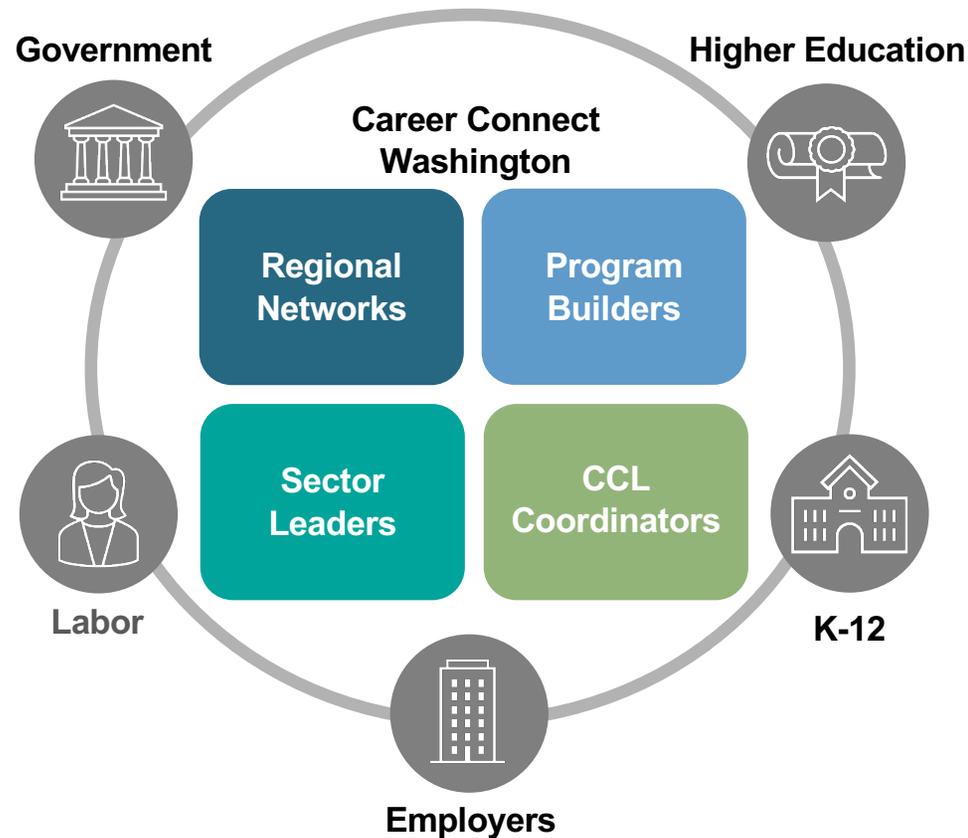
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## What is Career Connect Washington?

Business, labor, education, and community leaders who are creating work-based and academic programs for young people to explore, learn, and earn money or college level credit.

Career Connect Washington (CCW) bridges the gap between employers and educators by providing the connection, funding, and support they need to deliver high quality academic and work-based experiences for Washington students, especially those furthest from opportunity.

## CCW has worked over the past several years to fill gaps and build connective tissue to help experts work together towards our shared vision



## CCW's Role in the NOAA Climate Resilience Regional Challenge

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- ❑ **Our Mission:** Support the development of a skilled, climate-resilient workforce to sustain and support Washington's coastal communities and our CRRC partner's efforts and projects.
  
- ❑ **Key Goals:**
  - Identify career pathways that align with climate-resiliency efforts.
  - Develop 5–7 climate-resilient programs at the Career Explore, Career Prep and Career Launch levels.
  - Prioritize inclusion of underserved communities in program development.
  
- ❑ We'll leverage CCW's proven **Program Builder** model to address short-, mid-, and long-term workforce needs and ensure programs are sustainable and embedded within Washington's education and workforce systems.
  
- ❑ These programs will connect students and job seekers to **high-demand jobs in climate-resilient industries and occupations** such as coastal project construction, climate engineering, regional planning, natural resource management, urban planning, and community outreach.

# Building the infrastructure to create new and grow existing CCL programs

---

## Student Experience

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### Career Launch

Classroom instruction and hands-on, paid work experience that leads to postsecondary credentials and career-readiness.



### Career Prep

Career-specific instruction at a worksite or in a classroom for academic credit



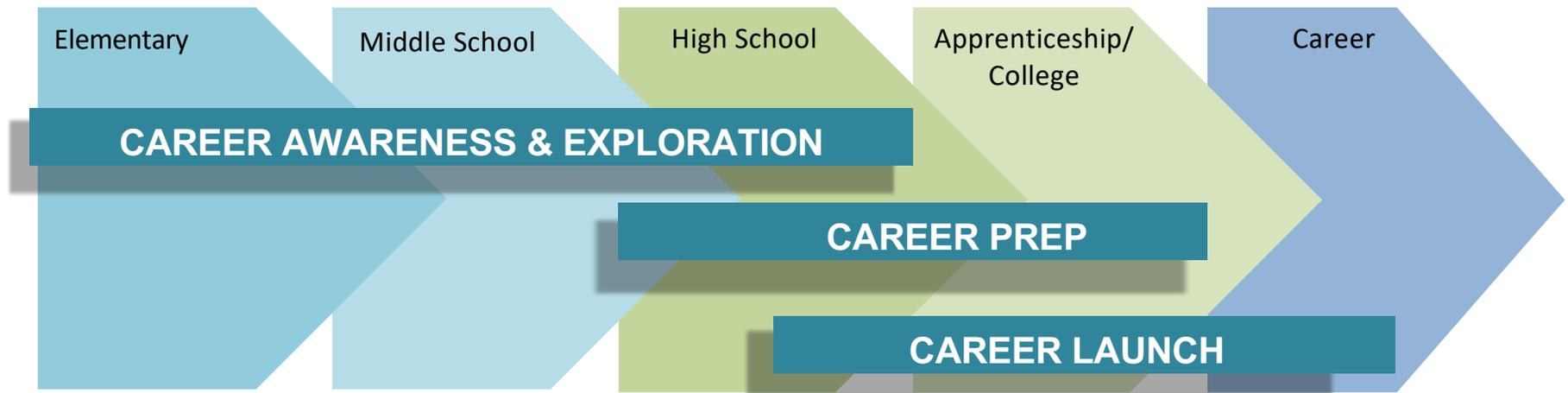
### Career Explore

Early exposure opportunities to careers and career options (e.g. career fairs, worksite tours)

*\*Postsecondary credential means certificate, or at least one year towards an associates or bachelor's degree*

# Career Connected Learning Continuum

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## Awareness & Exploration

- Job shadows
- Career fair
- Worksite tours
- Informational interviews

## Career Prep

- Job site industry mentorship
- Pre-apprenticeship
- Internship

## Career Launch

- Registered apprenticeship/internship
- Work-based course (dual credit)
- College or industry credential

# Program Building

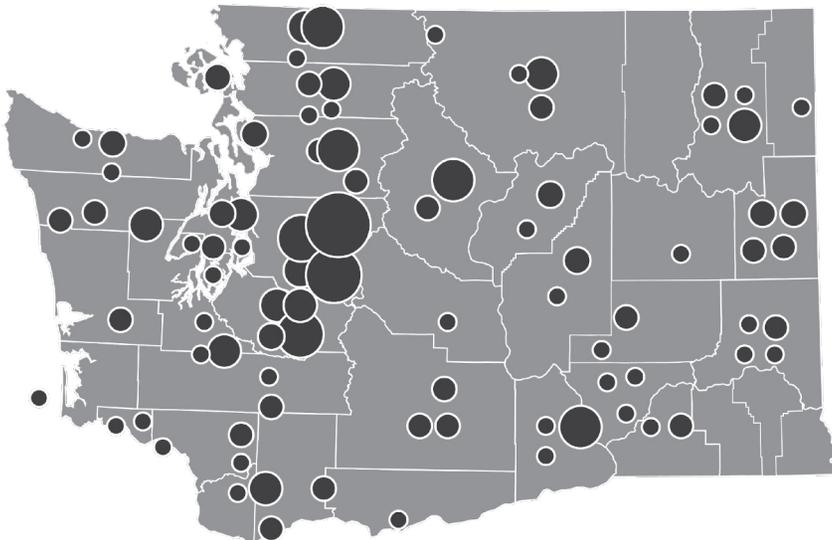
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## Phases of Program Development



## CCW's statewide impact, by the numbers

Career connected learning is  
expanding across the state



**16,616 students enrolled in  
Career Launch programs**

**Includes registered apprenticeships**

(data from July 2023 – June 2024)<sup>1</sup>

**9,002 Career Launch completions**

**Cumulative, by students enrolled before age 30**

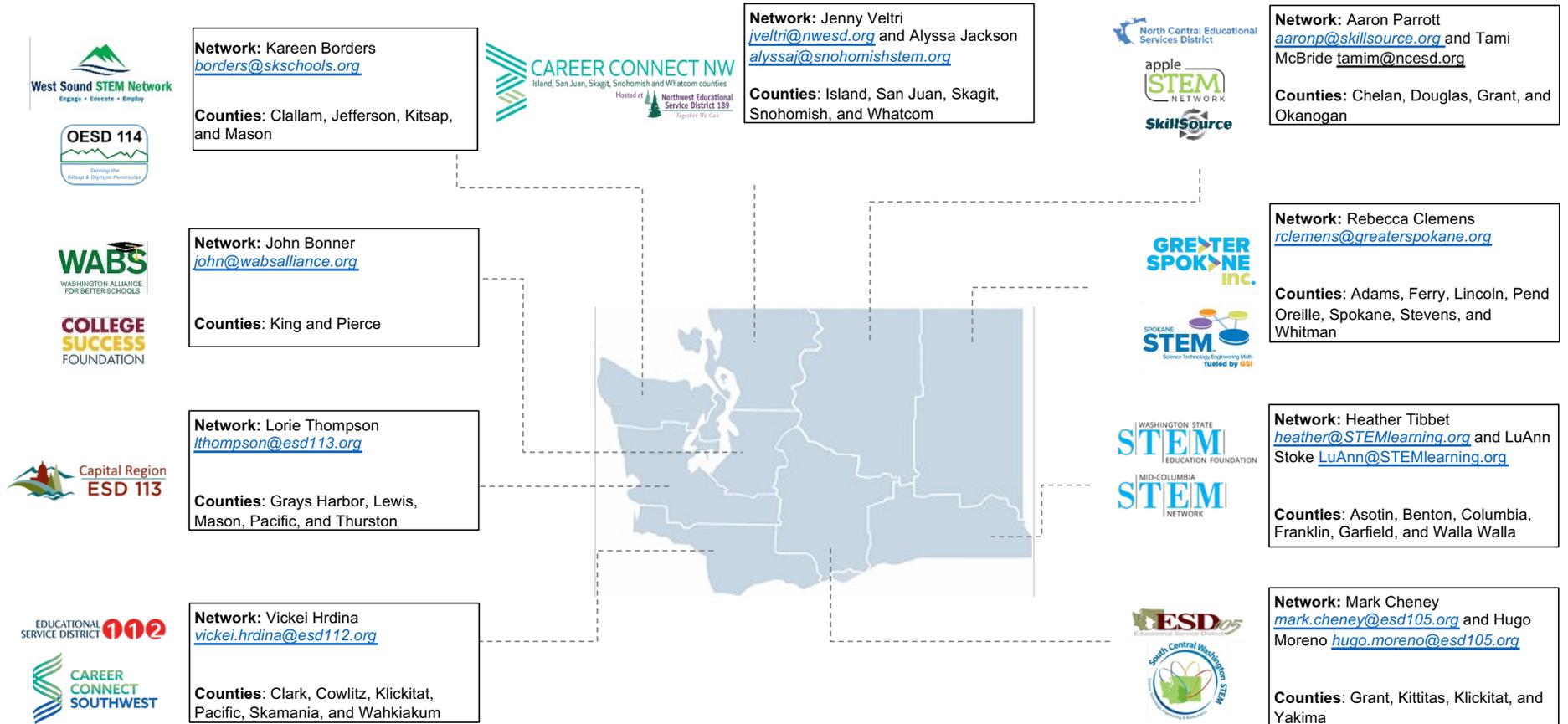
(data from July 2019 – June 2024)<sup>1</sup>

**183 new Career Launch programs**

**Created, of which 70+ are Registered Apprenticeships**

(data from July 2019 – June 2023)

# Regional Networks



This information is confidential; it is not to be relied on by any 3rd party without prior written consent.

## CCW Sector Leaders

| Sector                                 | Intermediary  | Contact   |
|--|---|---|
| Advanced Manufacturing & Aerospace     | <a href="#">AWB Institute</a> , in partnership with the Aerospace Futures Alliance                            | Samantha Kinnard, Program Manager, <a href="mailto:samanthak@awbinstitute.org">samanthak@awbinstitute.org</a>   |
| Agriculture                            | <a href="#">Agriculture &amp; Natural Resource Center of Excellence</a>                                       | Lindsey Williams, Director, <a href="mailto:lindsey.williams@wwcc.edu">lindsey.williams@wwcc.edu</a>  |
| Clean Technology & Energy              | <a href="#">CleanTech Alliance</a> , in partnership with the Pacific NW Center of Excellence for Clean Energy | Mel Clark – President/CEO, <a href="mailto:mel@cleantechalliance.org">mel@cleantechalliance.org</a>   |
| Construction                           | <a href="#">AGC Education Foundation</a>  | Sarah Patterson, Workforce Development Director, <a href="mailto:spatterson@agcwa.com">spatterson@agcwa.com</a>   |
| Finance                                | <a href="#">Washington Bankers Association</a>  | Duncan Taylor, SVP, Membership & Programs: <a href="mailto:duncan@wabankers.com">duncan@wabankers.com</a>   |
| Education                              | <a href="#">The Center for Strengthening the Teaching Profession</a>  | Saara Kamal, Program Manager, <a href="mailto:saara@cstp.wa.org">saara@cstp.wa.org</a><br>Lindsey Stevens, Executive Dir., <a href="mailto:lindsey@cstp-wa.org">lindsey@cstp-wa.org</a>   |
| Healthcare                             | <a href="#">SEIU Healthcare 1199NW Multi-Employer Training and Education Fund</a>                             | Amy Barto, Healthcare Intermediary Project Manger, <a href="mailto:abarto@healthcareerfund.org">abarto@healthcareerfund.org</a>   |
| Information Technology & Cybersecurity | <a href="#">Computing for All</a>   | Alka Manchanda, Director Program Development, <a href="mailto:alka@computingforall.org">alka@computingforall.org</a><br>Mandira Virmani, Director Program Development, <a href="mailto:mandira@computingforall.org">mandira@computingforall.org</a> |
| Life Science                           | <a href="#">Life Science Washington</a>   | Marc Cummings, President & CEO, <a href="mailto:marc@lifesciencewa.org">marc@lifesciencewa.org</a>  |
| Maritime                               | <a href="#">NW Center of Excellence for Marine Manufacturing &amp; Technology</a>                             | Ann Avary, Director, <a href="mailto:ann.avary@skagit.edu">ann.avary@skagit.edu</a>   |

Thank you!

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DEPARTMENT OF  
**ECOLOGY**  
State of Washington

# Shoreline Management Act Rulemaking: Focus on Sea Level Rise

Coastal Hazards Resilience Network Meeting | June 9, 2025

**Rebecca Rothwell**, Shoreline Planner



# Shoreline Management Act (SMA)

## Chapter 90.58 RCW



Protect environment &  
public health



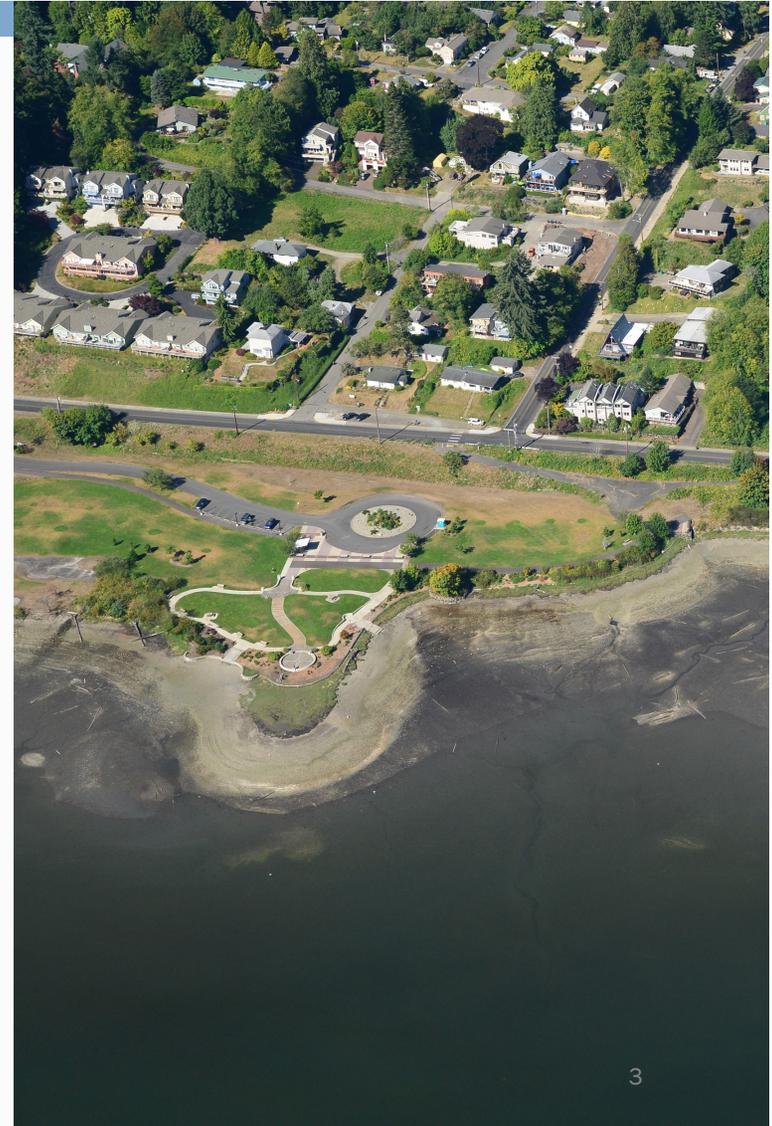
Promote public access



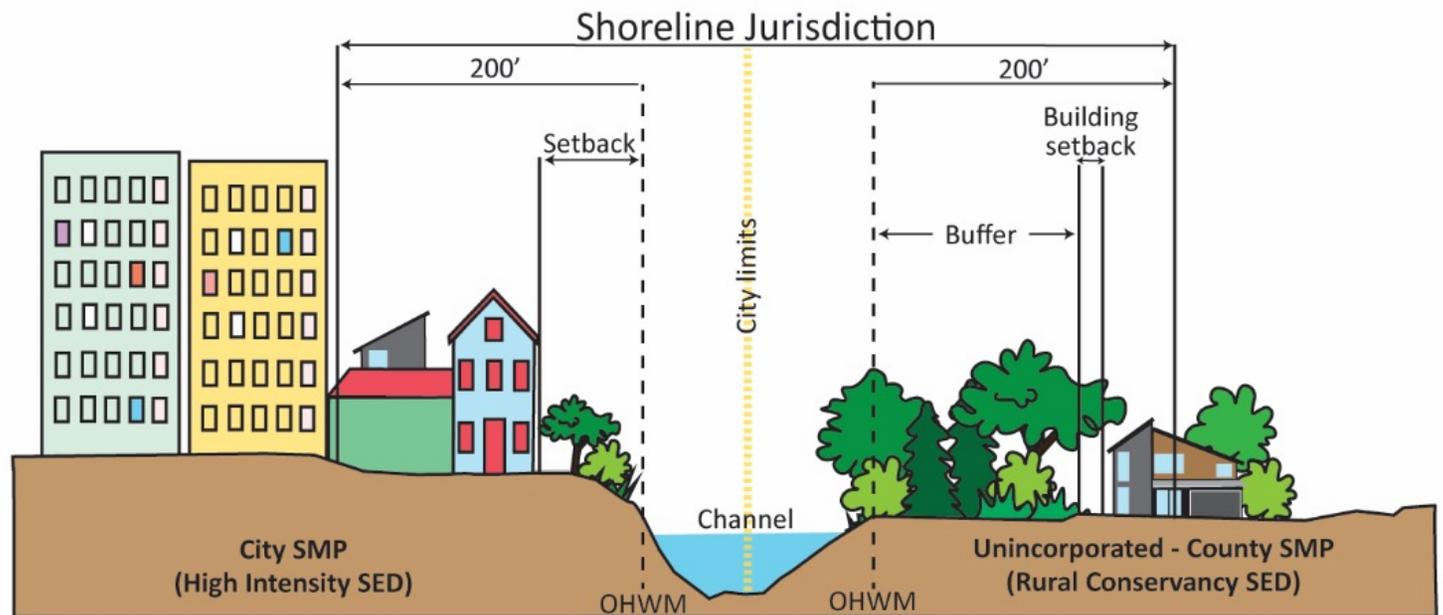
Plan for shoreline uses

# Shoreline master programs

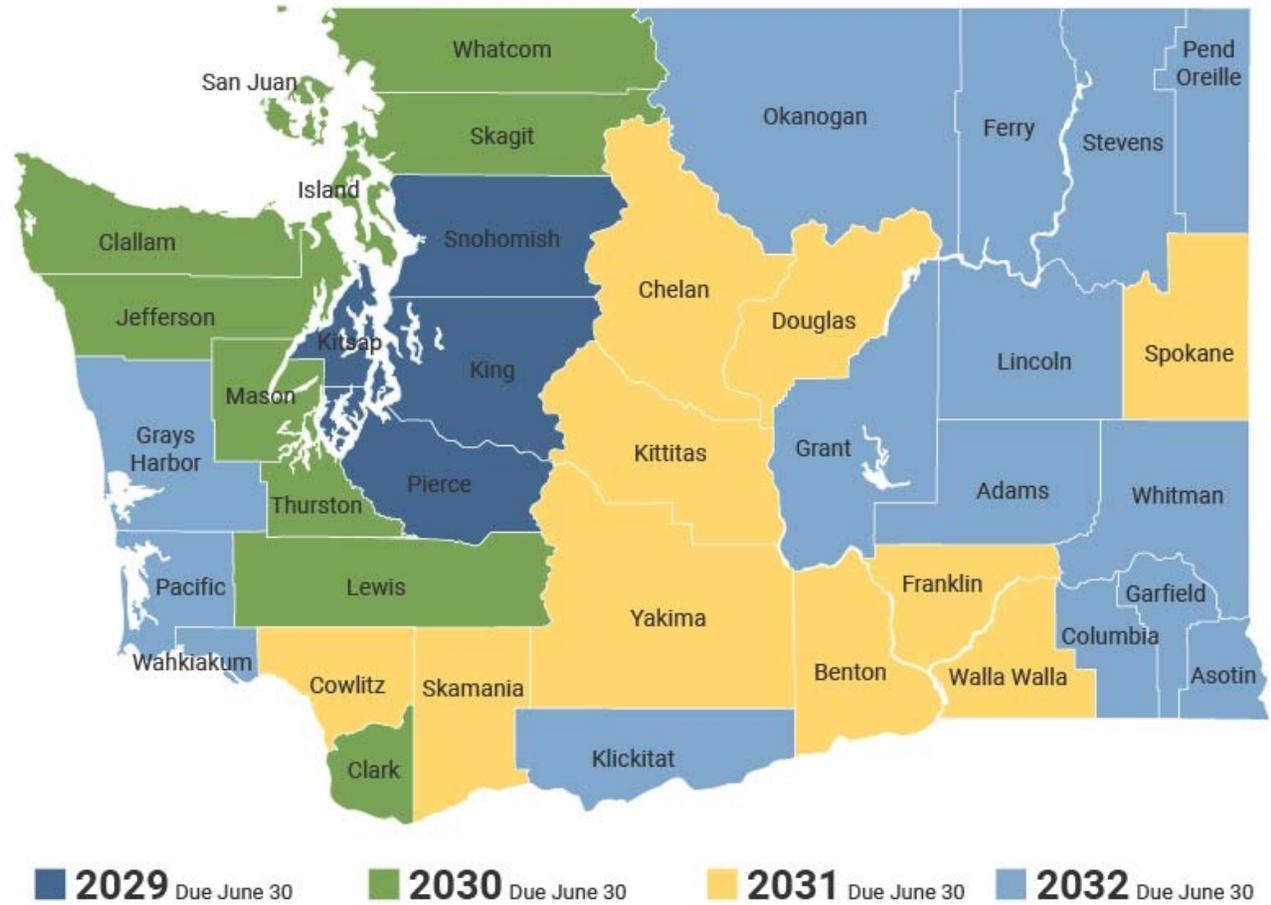
- State/local partnership
- Locally tailored policies and development regulations that implement the Shoreline Management Act
- Reviewed and approved by Ecology
- 258 statewide



# Shoreline jurisdiction



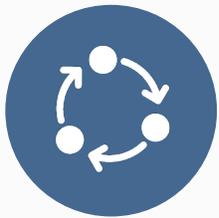
# Periodic review schedule



# Shoreline Management Act Rulemaking

WAC 173-18, 173-20, 173-22, 173-26, 173-27

# Why are we amending these rules?



Address issues identified through reviewing, adopting, and implementing shoreline master programs (SMPs).



Specify how local governments must address the impact of sea level rise and increased storm severity in SMPs.  
(RCW 90.58.630/HB 1181)



## Sea level rise rules

New section requires local governments to conduct or use an existing sea level rise vulnerability assessment, establish a hazard area, and manage development to reduce vulnerability and protect the shoreline environment.

# Sea level rise rules organization

Revisions to periodic review, general provisions, modifications section, permit requirements, etc.



Sea level rise planning (new section)



Sea level rise policy goals and governing principles



## WAC 173-26-246 Sea level rise planning.

- (1) Purpose.
- (2) Applicability.
- (3) Exceptions and adjustments to planning requirements.
- (4) Timing and phasing.
- (5) Equitable sea level rise adaptation.
- (6) Process to amend master programs to address sea level rise.
- (7) Sea level rise content requirements for master programs.
- (8) Development in Sea Level Rise Hazard Areas.
- (9) Additional measures for addressing sea level rise in master programs.
- (10) Principles for using sea level rise information in shoreline planning.
- (11) Aligning climate adaption across plans.
- (12) Department guidance and assistance.



# Upcoming informal comment period

We intend to release a preliminary draft of rule amendment on June 16

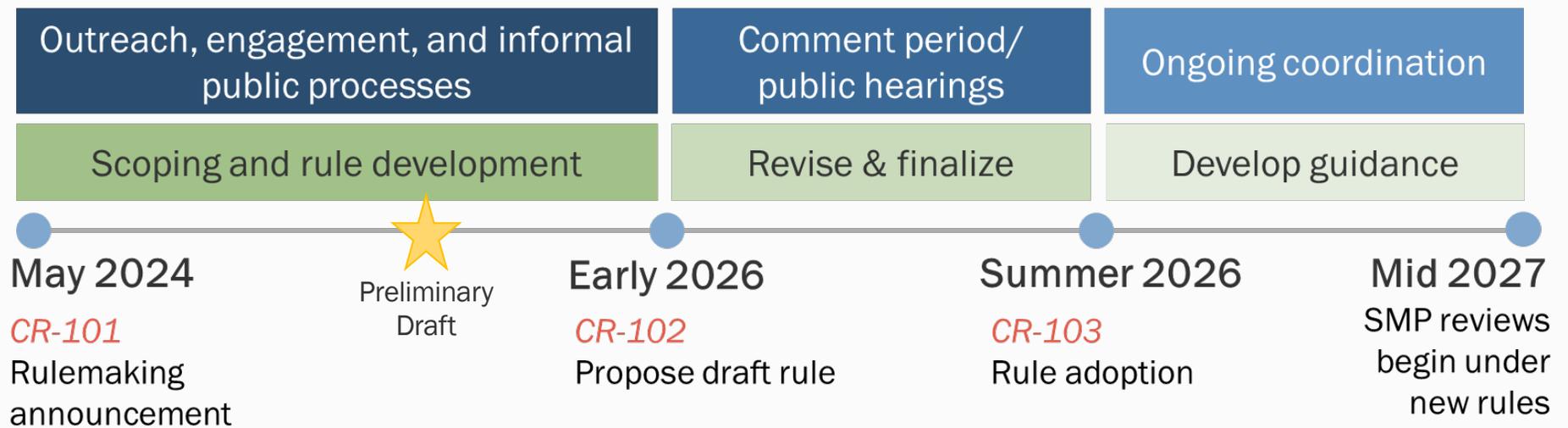


**Dates:** June 16-August 15 (60 days)

**Goal:** Gather feedback about the preliminary draft to inform the formal draft.

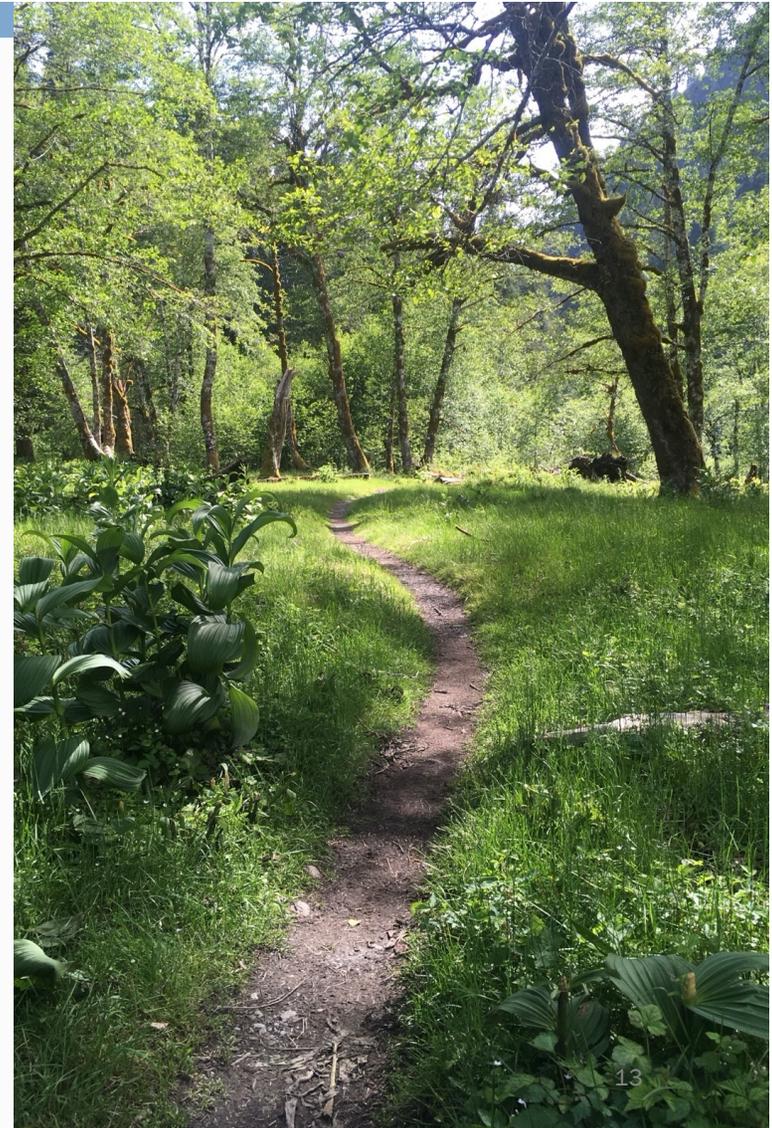
**Please attend:** Public, agency, and/or Tribal information and listening sessions.

# SMA Rulemaking Timeline



## Rule update is one step

- Shoreline master program updates
- Implementation of new policies and regulations at the local level
- Many additional needs to support resilient communities and ecosystems along shorelines





# Thank you

[Rebecca.Rothwell@ecy.wa.gov](mailto:Rebecca.Rothwell@ecy.wa.gov)

[Charlotte.Dohrn@ecy.wa.gov](mailto:Charlotte.Dohrn@ecy.wa.gov)

[Misty.Blair@ecy.wa.gov](mailto:Misty.Blair@ecy.wa.gov)

CHRN  
June 9, 2025

# Reflections from the HSIL 2024 Fall Forum

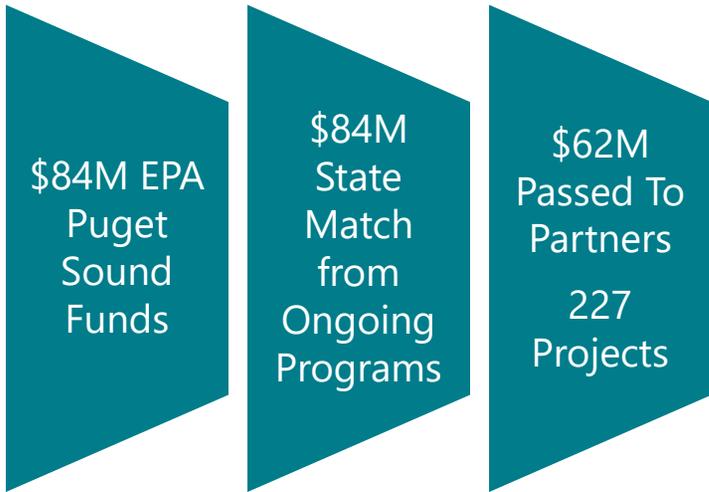
Planning for sea level rise and climate-related hazards to nearshore habitat in Puget Sound



Photo: David Seibold (CC-BY-NC 2.0)

# Habitat Strategic Initiative Lead (HSIL)

Protecting and restoring Puget Sound habitat through strategic planning, funding, convening and collaborating

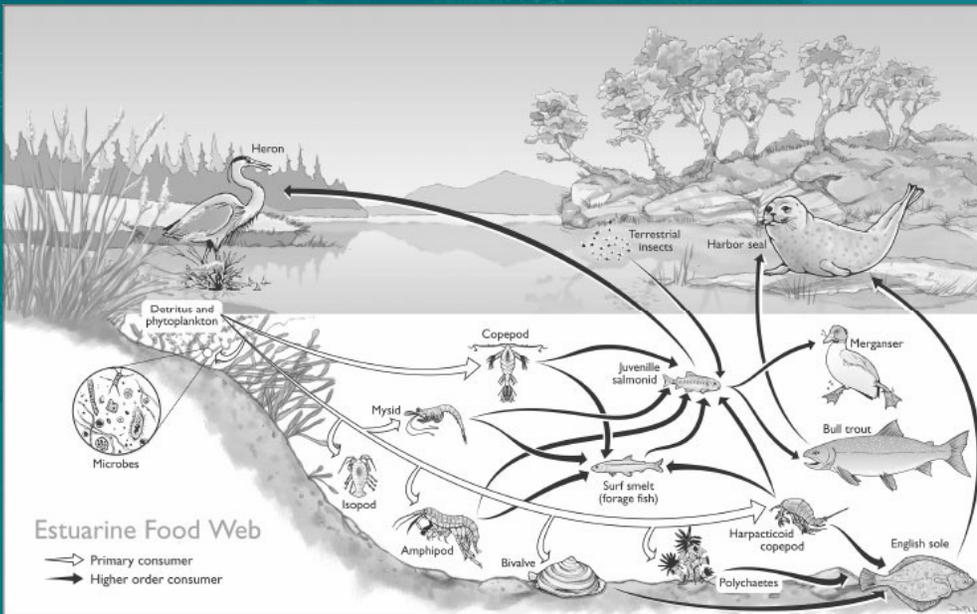


Washington  
Department of  
**FISH &  
WILDLIFE**



# Habitat Supports Biodiversity

June 9, 2025



Adapted from Shore Friendly

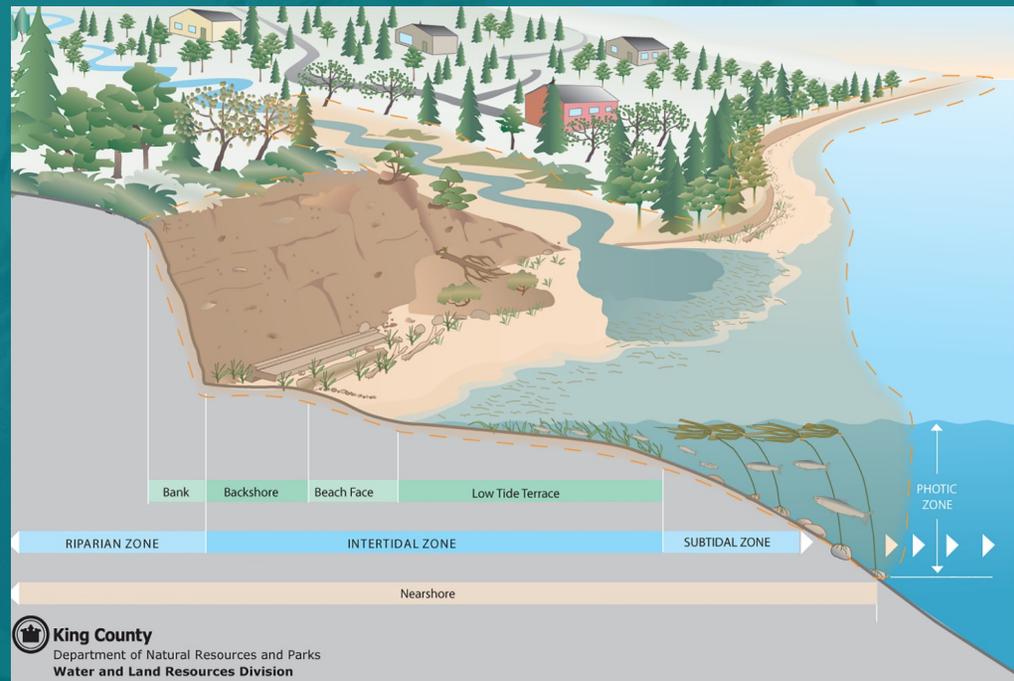
HSIL Fall Forum: Planning for sea level rise and climate-related hazards to nearshore habitat in Puget Sound

Photo by David Seibold (CC-BY-NC 2.0)



# Puget Sound Nearshore

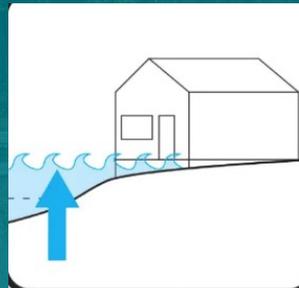
June 9, 2025



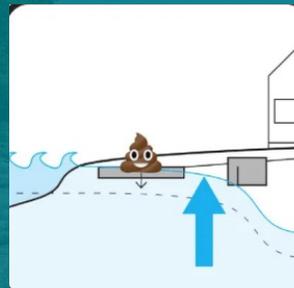
# Examples of Sea Level Rise Impacts

June 9, 2025

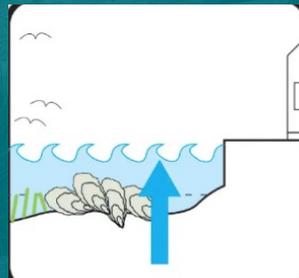
Coastal Flooding



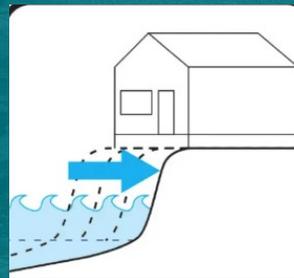
Salinity and Water Quality Change



Habitat Loss



Erosion and Deposition



Adapted from Coastal Hazards Resilience Network



# Synthesis Report

June 9, 2025

**Habitat Strategic Initiative Lead  
2024 Fall Forum Synthesis Report**  
Planning for sea level rise and climate related  
hazards to nearshore habitat in Puget Sound



**PUGET SOUND**  
National Estuary Program



*Synthesis Report and Forum  
Recording available on the  
HSIL workshop webpage*

*HSIL Fall Forum: Planning for sea level rise and climate-related hazards to nearshore habitat in Puget Sound*

Photo by David Seibold (CC-BY-NC 2.0)

# Takeaways

June 9, 2025

**Habitat Strategic Initiative Lead  
2024 Fall Forum Synthesis Report**  
Planning for sea level rise and climate related  
hazards to nearshore habitat in Puget Sound



**PUGET SOUND**  
National Estuary Program

- Sea level rise and climate change are already impacting Puget Sound nearshore habitats
- State and Local regulatory frameworks do not sufficiently address climate-related risks

*HSIL Fall Forum: Planning for sea level rise and climate-related hazards to nearshore habitat in Puget Sound*

Photo by David Seibold (CC-BY-NC 2.0)

# Takeaways

June 9, 2025

**Habitat Strategic Initiative Lead**  
**2024 Fall Forum Synthesis Report**  
Planning for sea level rise and climate related hazards to nearshore habitat in Puget Sound



- Shoreline armor remains a critical focus area
- Coordinated cross sector action is essential

*HSIL Fall Forum: Planning for sea level rise and climate-related hazards to nearshore habitat in Puget Sound*

Photo by David Seibold (CC-BY-NC 2.0)

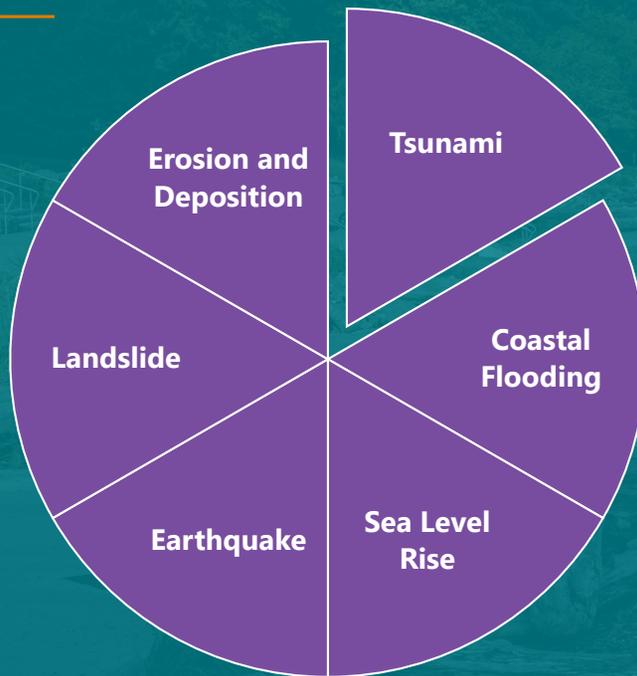
# Knowledge Gaps

June 9, 2025



# Habitat and Coastal Hazard Resilience

June 9, 2025



## Habitat connections:

- Intact habitat creates natural buffers for communities and critical infrastructure against hazards
- Nature based engineering solutions can often be more resilient than hard shorelines
- Habitat is an important part of our collective sense of place and source of food, culture, and recreation

# Possible Discussion Qs and Follow-up

June 9, 2025

## Would love to talk to CHRN members about...

1. Is there an opportunity to consider habitat and species outcomes in coastal hazard work? What support do you need?
2. Are there opportunities for CHRN to address some of the habitat focused takeaways and research needs identified in the report?
3. Are there efforts / projects that HSIL should be paying attention to or participating in related to coastal hazards and habitat resiliency?

# Thank you!

Matthew.Lurie@dfw.wa.gov  
www.pugetsoundestuary.wa.gov



HSIL Website



Funded Projects



Grant Program  
Achievements 2016-2020

*This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-01J89501 through the Washington Department of Fish and Wildlife. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency nor does mention of trade names or commercial products constitute endorsement or recommendation for use.*



# Effective Coordination in Village Relocation Projects: Strategies for Success

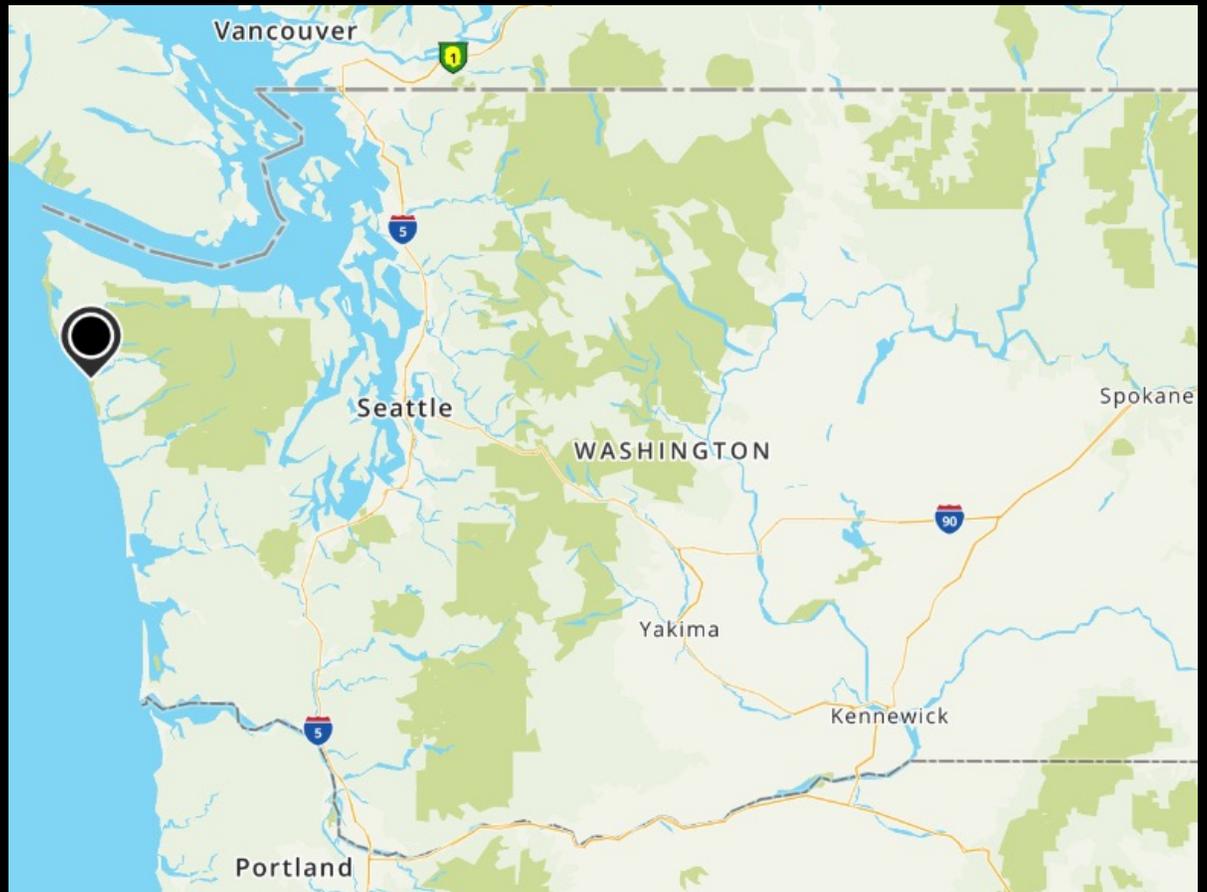
Addressing Challenges Through Community  
Engagement and Strategic Planning

Cynthia Toop, Tribal Climate Resilience

Project Manager, Hoh Tribe

June 9<sup>th</sup>, 2025

# Hoh Tribe Location, Washington State





## Hoh Tribe Relocation Site

# Introduction

- Village relocation is a complex, multi-stakeholder process.
- Success depends on effective coordination of priorities set by Tribal Leadership, community trust, and sustainable planning.
- This presentation explores key challenges and strategies to overcome them.



Key  
Stakeholders

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Community members

---

Tribal leadership

---

Engineers and contractors

---

Government agencies

---

Nonprofits and funding  
partners

## Core Challenges

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1. Community Engagement

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2. Managing Expectations

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3. Team Coordination

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4. Logistical Complexities

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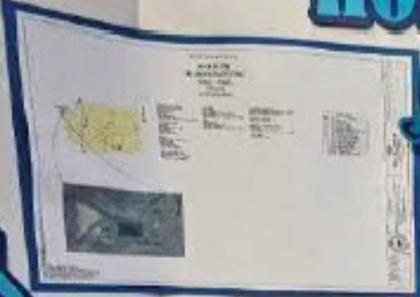
5. Sustainable Development

# Community Engagement: Foster trust and participation.

- Importance of early and ongoing dialogue.
- Strategy:
  - Begin with oral feedback sessions (e.g., community meetings that align with social gatherings).
  - Follow up with customized surveys tailored to local values and needs.



# Hoh Highlands Infrastructure



Red Plains  
Community Infrastructure Presentation

# Managing Expectations: Communicate limitations and set realistic goals.

- Funding limitations must be clearly communicated.
- Set realistic goals for:
  - Number and type of homes
  - Infrastructure (roads, utilities)
  - Critical services: EOC, clinic, tribal court, social services, natural resources & government offices
- Use visual aids and phased plans to show what's possible and when.

# Team Coordination: Ensure seamless collaboration among all parties.

Leadership Communication, Legal Department, NR Department (including THPO 106 & ESA requirements),  
Engineers & Contractors

- Hold regular meetings with all teams.
- Examples
  - Legal team coordination with contracts and easements along with meeting BIA requirements.
  - Master plan development with engineers, architects, and construction managers.
- Use project management tools to track progress and resolve issues quickly.

Logistical Complexities:  
Address site selection, transportation, and material sourcing.

Address logistical complexities with detailed plans and contingency strategies.



Consider:

- Material Sourcing: Ensure availability.

- Workforce Availability: Plan for seasonal constraints.

# Coordinating Multiple Funding Sources

- Coordinating multiple funding sources within a project involves several challenges:
  - Aligning different funding requirements, timelines, and reporting standards.
  - Ensuring compliance with each funder's specific criteria.
  - Managing the complexity of financial planning and budgeting.
  - Facilitating inter-agency communication and collaboration.

# Effective strategies include:

- Developing a comprehensive financial plan that integrates all funding sources.

- Establishing clear communication channels among stakeholders.

- Regularly monitoring and reporting progress to meet funders' expectations.

# Ensuring Sustainable Development

- Focus on long-term resilience by:
  - Energy-Efficient Homes: Design for sustainability.
  - Climate-Adapted Infrastructure: Build to withstand environmental changes & power needs.
  - Support Traditional Livelihoods: Involve the community in design and monitoring.

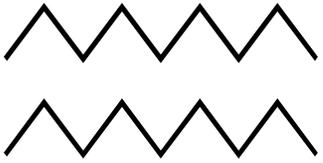
# Summary of Strategies



## Final Thoughts

Village relocation is more than construction—it's about preserving identity, building trust, and creating a future for the community.

Success lies in adaptive, transparent, and inclusive coordination.



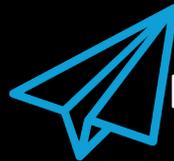
## Contact Information



Cynthia Toop,  
Tribal Climate Resilience  
Project Manager



Phone: 360-780-2298



Email: [cynthia.toop@hohtribe-nsn.org](mailto:cynthia.toop@hohtribe-nsn.org)