Oregon Water Data Portal Project Update

Thursday, Nov. 14



Presenters



Carrie Hertel, OSU
Director
Center for Applied
Systems & Software



Audrey Hatch, OWEB Conservation Outcomes Coordinator



Josh Weber, DEQ Project Manager



Michele Martin, DEQ Project Manager



Sarah Mattecheck, DEQ Basin Coordinator



Lillian Watson, IoW Policy Associate

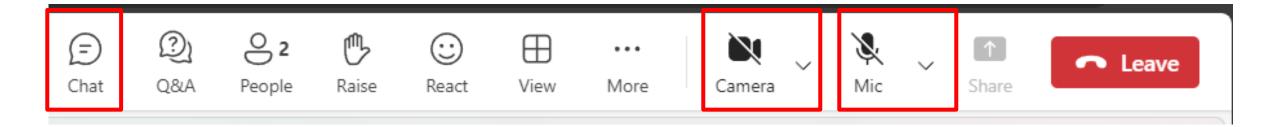


Ben Scandella, OWRD Senior Groundwater Data Developer



Agenda

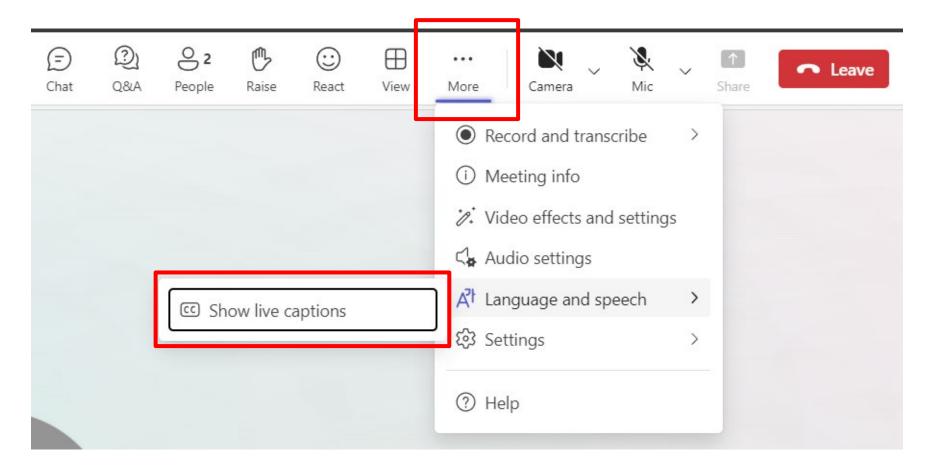
- Review accomplishments
- Lessons learned event with Texas, New Mexico, and Idaho
- Pilot portal development
- Data priorities and themes
- Governance plan recommendations
- Next steps for the Oregon Water Data Portal



- Chat: Use for technical issues or help
- Camera & Mic: Please keep your microphone on mute unless speaking

This session is being recorded.

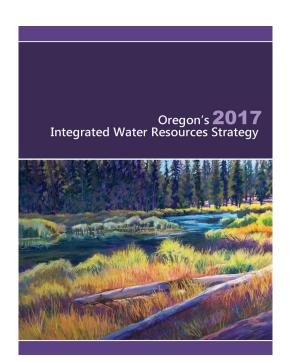
Live Captioning

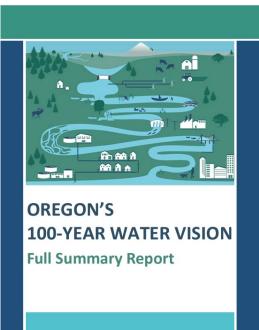


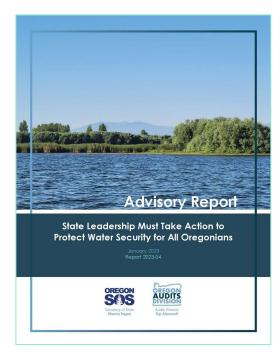
HB 5006 (2021) - Water Data

...there is appropriated to the Department of Environmental Quality, for the biennium beginning July 1, 2021, out of the General Fund, the amount of \$350,000, to begin initial scoping and design of a database framework of water and infrastructure data.











Oregon Water Data Portal - Project Phases

July 2021 – June 2023 Plan project



2

July 2023 – June 2025 Pilot project

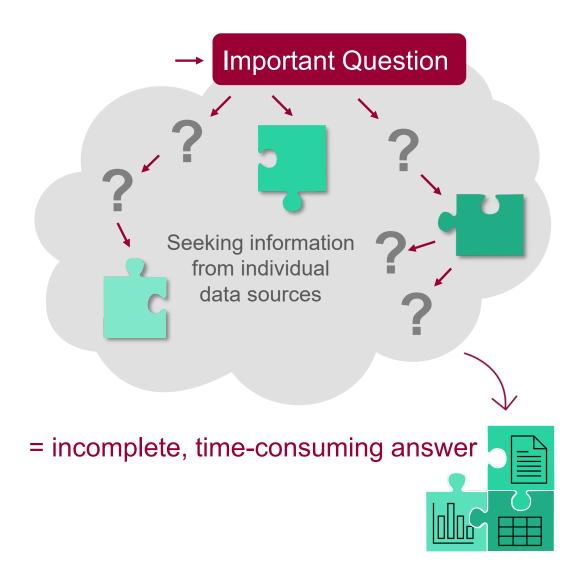


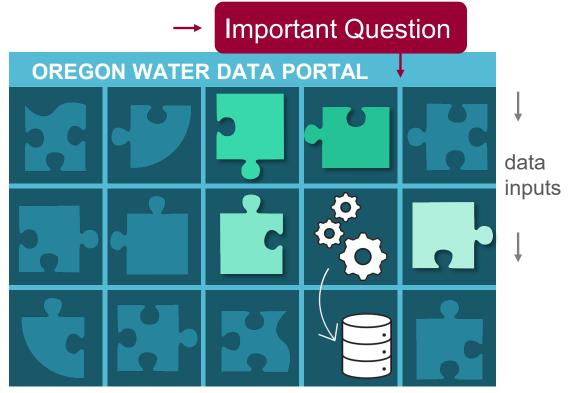
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July 2025 and future phases
Agency data projects and establishing a
portal based on the pilot portal



OWDP Vision: Efficient and Effective Information Accessibility





= complete, timely answer



- Efficient for those asking questions
- **Effective** for finding legitimate answers
- Modernize agency processes & infrastructure



Statewide Collaboration













































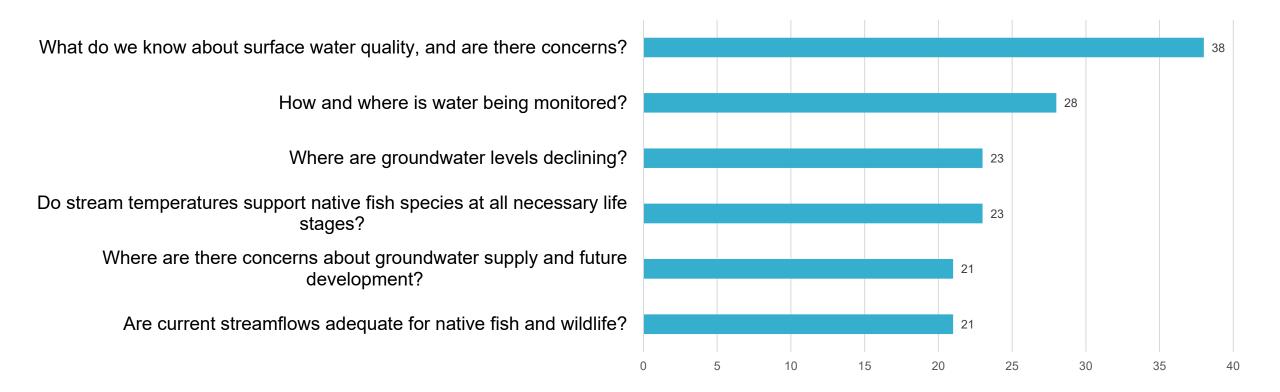


Water Data Portal Listening Sessions and Previous Engagement

- OWDP Listening sessions, 2022: Water Associations, Water Data, and Users Tribal Engagement
- Built on Water Data Technical Workshop, 2019 (Water Vision)
- Polls, breakout discussions, surveys: your questions and needs drive this portal



2022 Listening Session: Important Questions



Oregon Water Data Portal report engagement summary page 41:

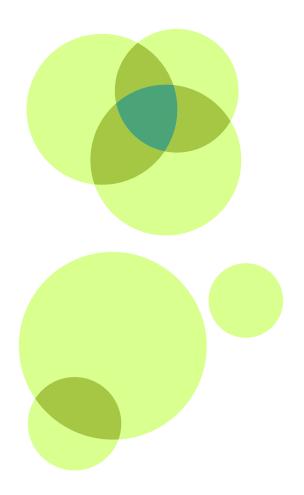
https://www.oregon.gov/deq/wq/Documents/OregonWaterDataPortal-FinalReport.pdf

Example Questions: State Datasets and Readiness

Question	Supporting data types	Data status	Ready for Data Portal?
Where have watershed restoration projects occurred?	Project inventory	Ready	Pilot portal ready
Where and when is water available for additional allocation? Allow prospective applicants to pre-screen major criteria.	Location-specific rules	Ready	Pilot portal ready, with limits
	Surface water availability	Available across most of the state	
	Groundwater level trends	Available but requires additional analysis	
	Groundwater connection to streams	Available but requires additional analysis	
	Water right allocations	Needs analysis and geographic association	Long-term project
	Groundwater recharge	In progress at basin scale	
	Aquifers and their budgets	Basin Assessments proposed to begin 2026	
		Processing reports from Groundwater Basin Studies (not underlying datasets)	
		Statewide aquifer budgets not yet planned	

Identifying Gaps and Prioritizing Questions

Water Concerns and Questions



Agency Water Data Collected and Evaluated







Prioritize Questions





OWDP Identifies
Gaps and Needs



Internet of Water Technology Adoption Program

What is TAP?

An in-situ training program to help public agencies modernize their water data through technological and organizational change.

TAP in Oregon

In April 2024 we held the second annual TAP workshop for the OWDP project.

Participants

Agency leadership, staff, and subject matter experts

Representatives from New Mexico, Texas, and Idaho who shared lessons learned from similar projects

TAP Insights - Informal Dinner



Trust Building



Diverse Funding Strategies



Risk Of Inaction

TAP Insights - Portal Interface & Use Cases



Interface Flexibility



Graceful
Degradation
across Devices



Clear
Communication
of Data
Limitations



Early
Engagement
with Tribal
Nations



Integration of Dynamic User Feedback

TAP Insights - Long-term Sustainability



Standardized Data Formats



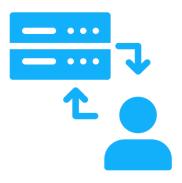
Clear Governance Structures



Organizational & Cultural Change



Data Privacy & Security



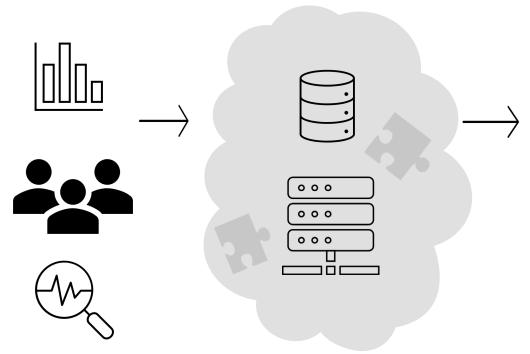
User-Centered Design

TAP - Minimum Viable Product & Next Steps

Minimum Viable Product: a pilot data portal that harvests continuous temperature data and other datasets from state agencies and:

- 1. Shows data in a single location
- 2. Allows users to download data in a machine-readable format **Immediate Next Steps**:
- 1. Propose a governance structure for the OWDP implementation phase that specifies decision-making authority on each team.
- 2. Select two additional areas of focus for the pilot portal, identify relevant datasets, and assign readiness categories to each dataset.

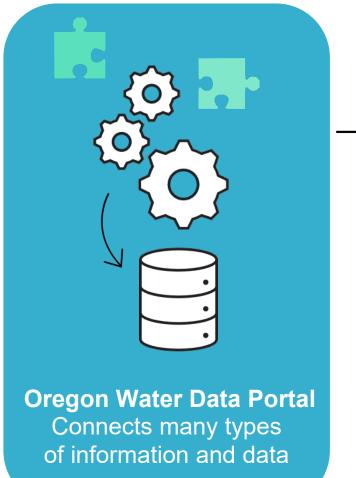
Water Data Portals



Agency Water **Data Collected** and

Evaluated

Water **Data Housed** in Disparate Agency Systems







Water Data accessed via OWDP on the internet

Pilot Portal Plan



Build the pilot portal website & infrastructure



Prepare "Seed" data



Preliminary data standardization and integration

Implementation Aug – Nov 2024



Testing Dec 2024



Available for Showcase Jan 2025



Continued Improvement Jan – June 2025

Supported by Internet of Water Coalition & OSU's Institute for Natural Resources

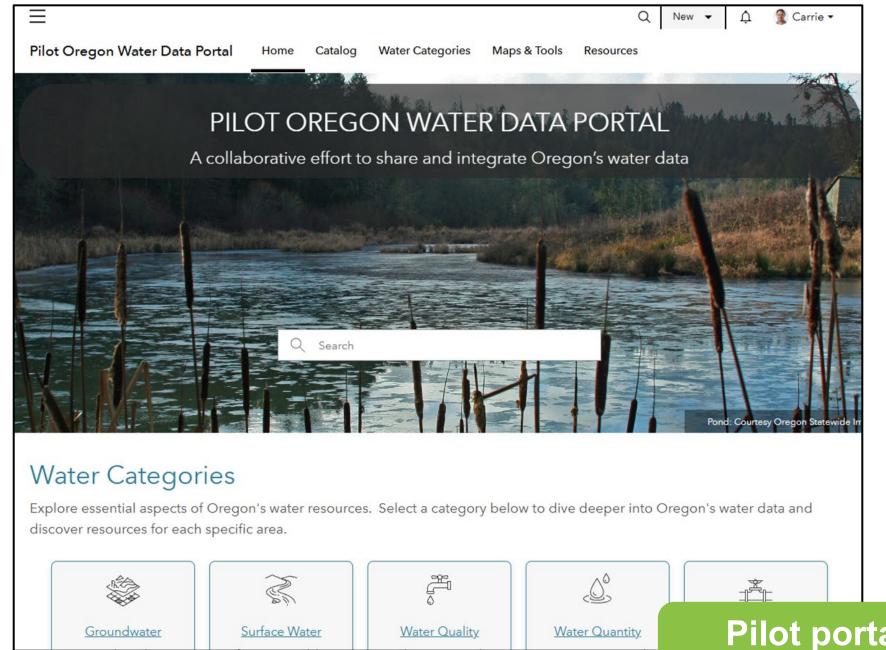






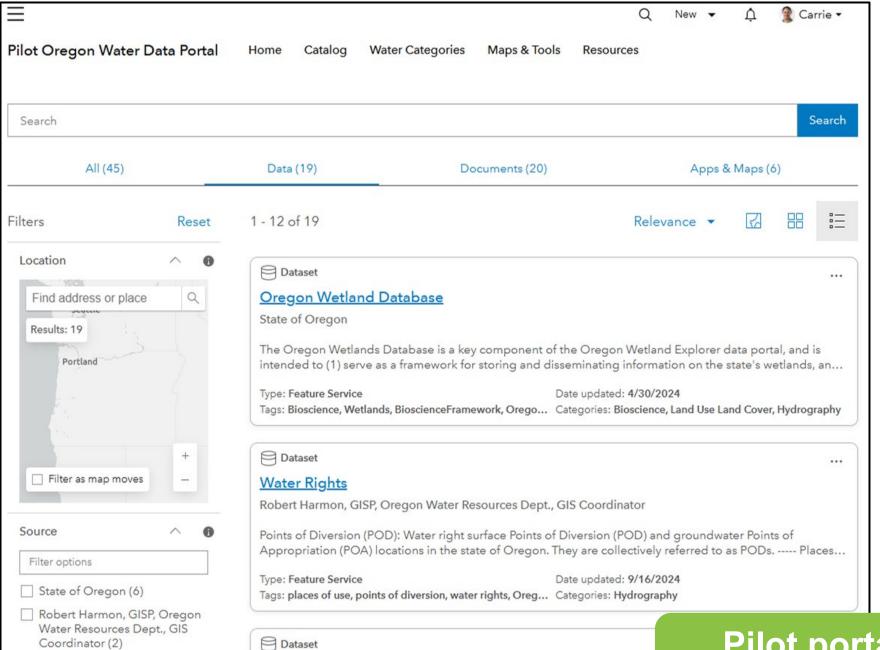


Lincoln Institute of Land Policy



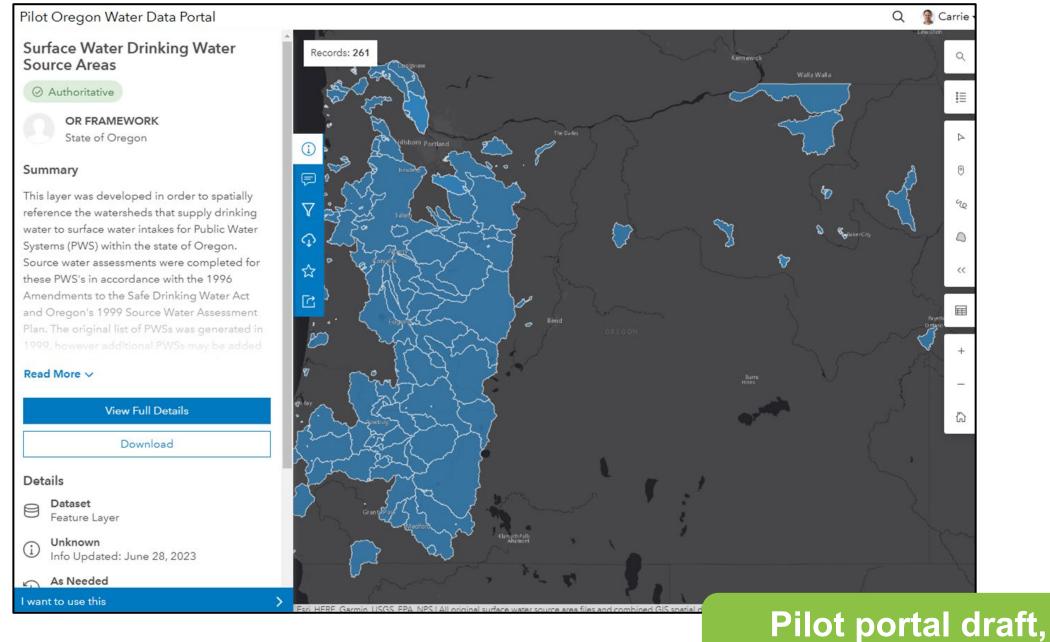
Oregon Water Data Portal Project

Pilot portal draft, subject to change



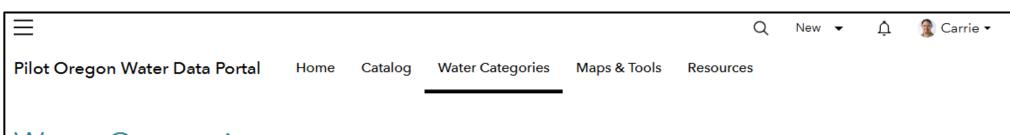
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Oregon Water Data Portal Project

subject to change



Water Categories

Explore essential aspects of Oregon's water resources. This page provides a gateway to critical water data categories, helping you understand and access information on groundwater, surface water, water quality, water quantity, and infrastructure. Select a category below to dive deeper into Oregon's water data and discover resources for each specific area.



Groundwater

Data and insights on Oregon's groundwater resources.

Learn more



Surface Water

Information on lakes, rivers, and streams across the state.

<u>Learn more</u>



Water Quality

Explore water quality metrics and initiatives.

Learn more



Water Quantity

Data on water supply, usage, and conservation.

Learn more

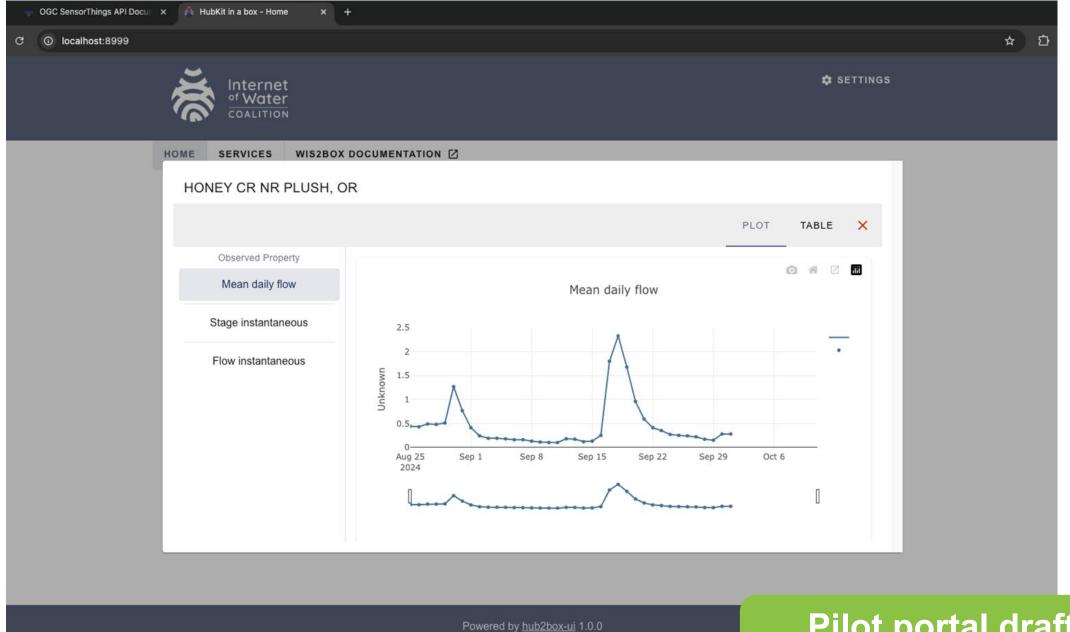


Infrastructure

Details on water infrastructure projects and maintenance.

Learn more

Pilot portal draft, subject to change



Pilot portal draft, subject to change

What will the pilot portal include?

Current pilot content

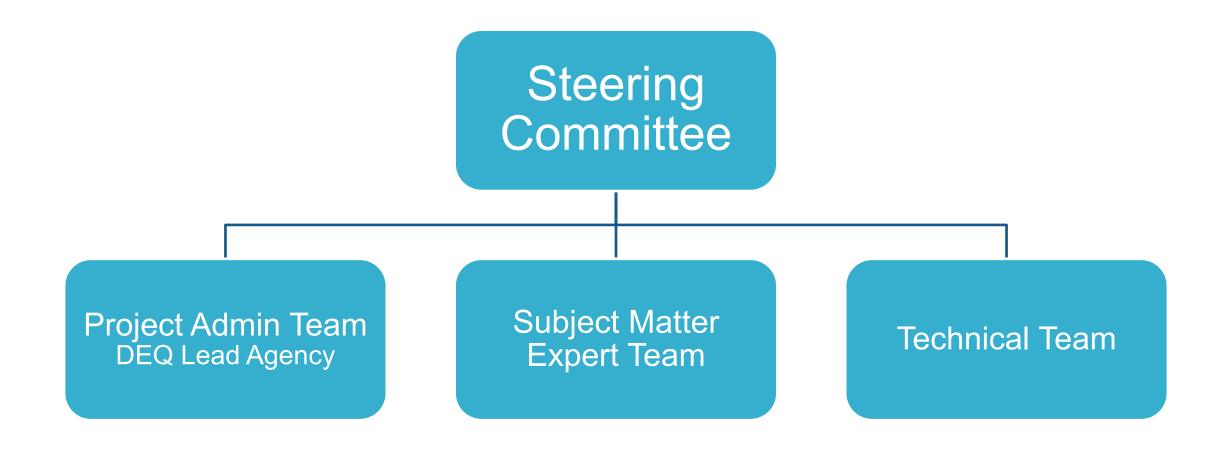
- Surface water temperature data
- Foundational water datasets (includes but not limited to)
 - Watersheds and waterways
 - Management boundaries
 - Environmental features
- Includes data from 5 state agencies and the USGS

Potential future content

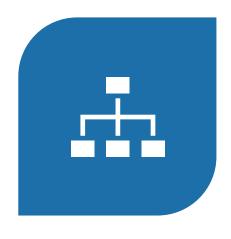
- Additional water quality parameters
- Water quantity data
- Water funding opportunities

The team is currently evaluating these data areas based on data availability and applicability to user needs

Current Governance Structure



Future Governance Plan



Project plan, structure, and oversight



Engagement and feedback from portal users



Incorporating additional data sources along with Oregon data agency work

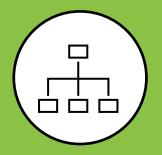
Taking us to the end of Phase 2



Develop legislative report



Complete and release pilot portal



Refine the governance draft plan



Prepare for the next project team

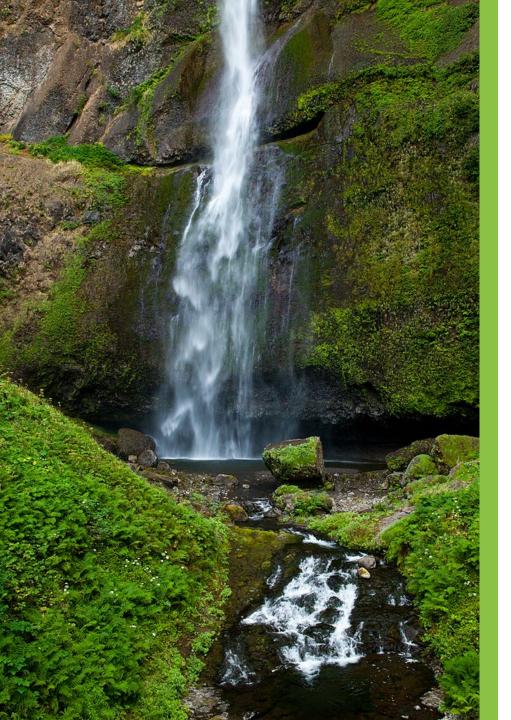


Develop phase 3 project plan



Evaluate inventory of data sets





Contacts

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GovDelivery for future notifications https://public.govdelivery.com/accounts/ORDEQ/subscriber/new?topic_id=ORDEQ_706