Presentation Overview

- What we did
- What we heard
- What we propose to do
  - 2020 Session Funding
  - Water Future Advisory Council
  - Outcomes and Objectives
  - Legislature and Advisory Council
  - Updated Vision
Background

Agencies began working more formally together to coordinate investments in built and natural water infrastructure with IWRS as foundation.

Opportunity to collaborate to strategically plan for, prioritize, and invest in water infrastructure.
Oregon’s 2017 Integrated Water Resources Strategy

A framework for improving our understanding of Oregon’s water resources and meeting our instream and out-of-stream needs, including water quantity, water quality, and ecosystem needs

---

**Objectives**

**1) Understand Water Resources Today**

- Further Understand Limited Water Supplies & Systems (groundwater, surface water, and their interaction)
- Improve Water Quality & Quantity Information
- Further Understand Our Water Management Institutions

**Critical Issues**

- Enhancing Water Resources / Supplies / Institutions
  - 1A: Conduct additional groundwater investigations
  - 1B: Improve water resource data collection & monitoring
  - 1C: Coordinate inter-agency data collection, processing, and use in decision-making

**Recommended Actions**

- Understand Water Resources / Supplies / Institutions
  - 2A: Regularly update long-term water demand forecasts
  - 2B: Improve water-use measurement & reporting
  - 2C: Determine unqualified water rights claims
  - 2D: Authorize the update of water right records with contact information
  - 2E: Regularly update Oregon’s water-related permitting guide

---

**2) Understand Instream and Out-of-Stream Needs**

- Further Define Out-of-Stream Needs / Demands (i.e., diverted water)
- Further Define Instream Needs / Demands (i.e., left-in-place water)

**Critical Issues**

- Understanding Oregon’s Out-of-Stream Needs/Demands
  - 3A: Determine flows needed (quantity & quality) to support instream needs
  - 3B: Determine needs of groundwater dependent ecosystems

**Recommended Actions**

- Understanding Oregon’s Instream Needs/Demands
  - 4A: Determine flows needed (quantity & quality) to support instream needs

---

**3) Understand the Coming Pressures That Affect Our Needs and Supplies**

**Objectives**

- Population Growth
- Water & Land Use
- Water-Related Infrastructure
- Education & Outreach

**Critical Issues**

- Water & Energy
  - 4A: Integrate water information into land-use planning (and vice versa)
- Climate Change
  - 5A: Support continued basin-scale climate change research efforts
- Extreme Events
  - 5C: Plan and prepare for a Cascadia subduction earthquake event

**Recommended Actions**

- Place-Based Efforts
  - 9A: Continue to undertake place-based integrated, land-use planning
  - 9B: Coordinate implementation of existing natural resource plans
  - 9C: Partner with federal agencies, tribes, and neighboring states in long-term water resource management

---

**4) Meet Oregon’s Instream and Out-of-Stream Needs**

**Objectives**

- Healthy Ecosystems
- Public Health
- Funding

**Critical Issues**

- Water Management & Development
  - 10A: Improve water-use efficiency and water conservation
  - 10B: Reduce the use of and exposure to toxins and other pollutants

**Recommended Actions**

- Healthy Ecosystems
  - 11A: Improve watershed health, resiliency, and capacity
  - 11B: Develop additional in-stream protections
  - 11C: Prevent and eradicate invasive species
  - 11D: Protect and restore in-stream habitat and habitat access for fish and wildlife
  - 11E: Develop additional groundwater protections

- Public Health
  - 12A: Ensure the safety of Oregon’s drinking water

- Funding
  - 13A: Fund development and implementation of Oregon’s IWRMS
  - 13B: Fund water resources management activities at state agencies
  - 13C: Invest in local or regional水 planning efforts
  - 13D: Invest in feasibility studies for water resources projects
  - 13E: Invest in implementation of water resources projects
Meet Oregon’s Instream and Out-of-Stream Needs

Place-Based Efforts
- 9.A Continue to undertake place-based integrated, water resources planning
- 9.B Coordinate implementation of existing natural resource plans
- 9.C Partner with federal agencies, tribes, and neighboring states in long-term water resources management

Water Management & Development
- 10.A Improve water-use efficiency and water conservation
- 10.B Improve access to built storage
- 10.C Encourage additional water reuse projects
- 10.D Reach environmental outcomes with non-regulatory alternatives
- 10.E Continue the water resources development program
- 10.F Provide an adequate presence in the field
- 10.G Strengthen water quantity & water quality permitting programs

Healthy Ecosystems
- 11.A Improve watershed health, resiliency, and capacity for natural storage
- 11.B Develop additional instream protections
- 11.C Prevent and eradicate invasive species
- 11.D Protect and restore instream habitat and habitat access for fish and wildlife
- 11.E Develop additional groundwater protections

Public Health
- 12.A Ensure the safety of Oregon’s drinking water
- 12.B Reduce the use of and exposure to toxics and other pollutants
- 12.C Implement water quality pollution control plans

Funding
- 13.A Fund development and implementation of Oregon’s IWRS
- 13.B Fund water resources management activities at state agencies
- 13.C Invest in local or regional water planning efforts
- 13.D Invest in feasibility studies for water resources projects
- 13.E Invest in implementation of water resources projects
<table>
<thead>
<tr>
<th><strong>Place-Based Efforts</strong></th>
<th><strong>Healthy Ecosystems</strong></th>
<th><strong>Public Health</strong></th>
<th><strong>Funding</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9.C Partner with federal agencies, tribes, and neighboring states in long-term water resources management</td>
<td>11.C Prevent and eradicate invasive species</td>
<td>12.C Implement water quality pollution control plans</td>
<td>13.C Invest in local or regional water planning efforts</td>
</tr>
<tr>
<td><strong>Water Management &amp; Development</strong></td>
<td><strong>Healthy Ecosystems</strong></td>
<td><strong>Public Health</strong></td>
<td><strong>Funding</strong></td>
</tr>
<tr>
<td>10.A Improve water-use efficiency and water conservation</td>
<td>11.D Protect and restore instream habitat and habitat access for fish and wildlife</td>
<td>12.D Reduce the use of and exposure to toxics and other pollutants</td>
<td>13.D Invest in feasibility studies for water resources projects</td>
</tr>
<tr>
<td>10.B Improve access to built storage</td>
<td>11.E Develop additional groundwater protections</td>
<td>12.E Reduce the use of and exposure to toxics and other pollutants</td>
<td>13.E Invest in implementation of water resources projects</td>
</tr>
<tr>
<td>10.C Encourage additional water reuse projects</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.D Reach environmental outcomes with non-regulatory alternatives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.E Continue the water resources development program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.F Provide an adequate presence in the field</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.G Strengthen water quantity &amp; water quality permitting programs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(1) Understand Water Resources Today

Further Understand Limited Water Supplies & Systems
(groundwater, surface water, and their interaction)

Improve Water Quality & Quantity Information

Further Understand Our Water Management Institutions

Understanding Water Resources / Supplies / Institutions
1.A Conduct additional groundwater investigations
1.B Improve water resource data collection & monitoring
1.C Coordinate inter-agency data collection, processing, and use in decision-making
# Oregon’s 2017 Integrated Water Resources Strategy

A framework for improving our understanding of Oregon’s water resources and meeting our instream and out-of-stream needs, including water quantity, water quality, and ecosystem needs.

## (1) Understand Water Resources Today

### OBJECTIVES
- Improve Water Quality & Quantity Information
- Further Understand Our Water Management Institutions

### CRITICAL ISSUES
- Further Define Out-of-Stream Needs / Demands (I.e., diverted water)
- Further Define Instream Needs / Demands (I.e., left-in-place water)

### RECOMMENDED ACTIONS
- Understanding Oregon’s Out-of-Stream Needs/Demands
  - 2.A. Regularly update long-term water demand forecasts
  - 2.B. Improve water-use measurement & reporting
  - 2.C. Determine unaggregated water right claims
  - 2.D. Authorize the update of water right records with contact information
  - 2.E. Regularly update Oregon’s water-related permitting guide

- Understanding Oregon’s Instream Needs/Demands
  - 3.A. Determine flows needed (quality & quantity) to support instream needs
  - 3.B. Determine needs of groundwater dependent ecosystems

## (2) Understand Instream and Out-Stream Needs

### OBJECTIVES
- Economic Development
- Water & Energy
- Climate Change
- Extreme Events

### CRITICAL ISSUES
- Water & Land Use
  - 6.B. Improve integration of water information into land use planning (and vice versa)
  - 6.C. Promote low-impact development practices and green infrastructure

### RECOMMENDED ACTIONS
- Water-Related Infrastructure
  - 7.A. Develop and upgrade water and wastewater infrastructure
  - 7.B. Encourage regional (sub-basin) approaches to water and wastewater systems
  - 7.C. Ensure public safety/sanitation

## (3) Understand the Coming Pressures That Affect Our Needs and Supplies

### OBJECTIVES
- Population Growth
- Water & Land Use
- Water-Related Infrastructure
- Education & Outreach

### CRITICAL ISSUES
- Water & Energy
  - 5.A. Analyze the effects on water from energy development projects & policies
  - 5.B. Take advantage of existing infrastructure to develop non-traditional hydropower resources
  - 5.C. Promote strategies that increase integrated energy & water savings

### RECOMMENDED ACTIONS
- Climate Change
  - 8.A. Support continued basin-scale climate change research efforts
  - 8.B. Assist with climate change adaptation & resiliency strategies

## (4) Meet Oregon’s Instream and Out-Stream Needs

### OBJECTIVES
- Place-Based Efforts
- Water Management & Development

### CRITICAL ISSUES
- Place-Based Efforts
  - 9.A. Continue to undertake place-based integrated, water resources planning
  - 9.B. Coordinate implementation of existing natural resource plans
  - 9.C. Partner with federal agencies, tribes, and neighboring states in long-term water resources management

### RECOMMENDED ACTIONS
- Water Management & Development
  - 10.A. Ensure the safety of Oregon’s drinking water
  - 10.B. Reduce the use of and exposure to toxics and other pollutants
  - 10.C. Implement water quality protection control plans

### Funding
- 11.A. Improve watershed health, resiliency, and capacity for natural storage
- 11.B. Develop additional instream protections
- 11.C. Prevent and eradicate invasive species
- 11.D. Protect and restore instream habitat and habitat access for fish and wildlife
- 11.E. Develop additional groundwater protections

- Public Health
  - 12.A. Reduce the use of and exposure to toxics and other pollutants
  - 12.B. Reduce the use of and exposure to toxics and other pollutants
- 12.C. Implement water quality protection control plans

- Healthy Ecosystems
  - 13.A. Improve watershed health, resiliency, and capacity for natural storage
  - 13.B. Develop additional instream protections
  - 13.C. Prevent and eradicate invasive species
  - 13.D. Invest in local or regional water planning efforts
  - 13.E. Invest in implementation of water resources projects

- Education & Outreach
  - 8.A. Support Oregon’s K-12 environmental literacy plan
  - 8.B. Provide education and training for Oregon’s next generation of water experts
  - 8.C. Promote community education and training opportunities
  - 8.D. Identify ongoing water-related research needs

**Economic Development & Population Growth**
(See Actions 2A and 3A)
Background

Agencies began working more formally together to coordinate investments in built and natural water infrastructure with IWRS as foundation.

Opportunity to collaborate to strategically plan for, prioritize, and invest in water infrastructure.

100-Year Water Vision developed to catalyze investments in IWRS.

Fall 2019: Water Vision Outreach Launch.

What We Did
Phase I Objectives

- Refine the Vision, problem statement, and goals
- Building on the IWRS, increase understanding of available data and gaps, as well as built and natural infrastructure conditions and needs (ongoing)
- Building on IWRS, increase identification of priority data needs for effective built and natural water infrastructure decision-making (ongoing)
- Increase knowledge of current state and federal funding available (ongoing)
- Increased awareness by water leaders of the context around the 100-Year Water Vision (ongoing)
Outreach & Engagement Process

- 8 Community Conversations
- 1 Website survey
- 1 technical workshop
- 78 stakeholder interviews
- Formal/informal conversations and/or interviews with all federally recognized tribes
- 950 participants engaged
- Over 4,300 individual comments
Processing the Feedback

What We Heard

New 100-Year Water Vision

State agencies develop new concepts, themes, and language to highlight in revised Vision

Language Development

Identify major themes missing from or important in the Vision

Report Drafting

Sort feedback into themes and categorize suggested changes to the Vision

Data Analysis

Gather feedback on Vision from 9 federally recognized tribes, community conversations, online web surveys, stakeholder interviews, and general feedback

Outreach and Engagement

What We Heard
## Data and Information Needs

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water availability</td>
<td>• Supply, use, demand, and conservation</td>
</tr>
<tr>
<td>Water quality</td>
<td>• Water treatment, reuse, and contaminants</td>
</tr>
<tr>
<td>Environment</td>
<td>• Watershed health and instream needs</td>
</tr>
<tr>
<td>Future trends</td>
<td>• Climate, population, and resiliency</td>
</tr>
<tr>
<td>Funding</td>
<td>• Available resources and opportunities for increased efficiencies</td>
</tr>
</tbody>
</table>
Data and Information Asks

An integrative water data platform

- GIS-based and easily accessible for community planning
- Aggregated and standardized
- Affordable and in real-time
- Climate and other models for predictive water planning
- Inclusive of every basin in the state
Thematic Takeaways (1)

- External forces impact water use and water availability
- Conserving water, using it efficiently, and reusing it
- Oregon’s built water infrastructure is aging, and natural infrastructure is under-utilized
- Ecosystems are an important, but under-recognized part of the water conversation
Communities recognize safety as an important piece of the water conversation.

Water is a limited resource. Useful and usable information is needed to begin discussions about balancing interests.

Oregon needs to ramp up investments, not just for projects, but for strategic planning, information, and community capacity.
Process Takeaways

- Tribes are sovereign nations, and their role in Oregon’s water future is key.
- All Oregonians need to be actively engaged in water decisions to develop effective, locally based solutions.
- Regional approaches and flexibility will be needed to address Oregon’s diverse water conditions and needs... and a statewide framework is also necessary.
- Policy was broadly discussed, but not necessarily agreed on...
- Creating a culture of water.

What We Heard
There is a strong interest in continuing the dialogue, and...

There are questions:
- What will the next phase entail?
- Will this process be inclusive?
- Will the state take strong leadership?
- Will this or any process result in real change?
What We Propose to Do

- With 2020 Session Funding
  - Water Future Advisory Council
  - Outcomes and Objectives
  - Updated Vision
2020 Legislative Session

- Water Vision Coordination & Implementation
  - OWEB - $350,000
- Water Vision Decision Support Tool Development
  - DEQ - $250,000
- Water Business Case
  - WRD - $200,000

2020 Budget Request:
1. Developing specifications and requirements for a water data platform that integrates data to enable agencies and communities to make strategic water decisions;
2. Identifying key water data gaps; and
3. Identifying initial user needs for web-based user portal.
Phase II Approach

- Legislative Funding Needed
- Water Future Advisory Council, other committees and partnerships to address outcomes and objectives - Executive Order following session
- Inclusive process
  - Legislature
  - Tribes
  - Diverse cross-section of stakeholders
- Funding proposals in 2021 and future biennia
- Only policy and statutory changes related to outcomes and objectives
- Note: In parallel - 2022 IWRS Update

What We Propose to Do
Phase II Outcomes

- Improve **funding coordination and increase funding available** in both the short and long term for built and natural water infrastructure and ecosystems.

- Develop and invest in the **public engagement, governance, information, and capacity systems** needed to ensure communities can strategically plan for, design, and implement water investments.
Phase II Objectives

- Community Capacity
- Water Investment Governance
- Water Funding
- Engaging Oregonians
- Data and Information Systems
Partnership

- Governor’s Memo – full coordination with legislature
- Policy Recommendations from advisory council need to be vetted through legislative process
- Budget Recommendations from advisory council or agencies will be coordinated through legislative process
- Topics not within advisory council purview – legislative determination to pursue
To address changes in climate and population dynamics, Oregonians will take care of our water to ensure we have enough clean water for our people, our economy, and our environment, now and for future generations.

Oregonians will invest strategically in infrastructure and ecosystems across all regions to support resilient communities, vibrant local economies, and a healthy environment for all who live here.
What Changed in the Vision

- Strong focus on investment and associated needs to support investments
- Goals stayed the same, but more detailed descriptions
- Many goal statements proposed were added as principles
- Recognize limited supply
- Acknowledgements
- Clear recognition of natural infrastructure and ecosystems
- Recognition of recreation
- Clarified challenges and opportunities – system and management
Principles for a successful process

- Best use of available science with local knowledge
- Coordination & collaboration
- Infrastructure & ecosystems
- Engaged Oregonians
- Balancing interests
- Affordability
- Tribal sovereignty
- Equity & transparency
- Innovation
- Water is a public resource

What We Propose to Do
Other Topics Raised

- Incredible range of feedback – as extensive as the IWRS
- Policy, data and information, community coordination, innovation
- Water Committee Bill topics
- Tracking our progress and success
- Look to other states and within Oregon
Documents on www.OregonWaterVision.org

Full Summary Report

- Revised Water Vision
- Executive summary
- Process recommendations
- Oregon Consensus summary
- Methodology
- Outreach and engagement
- Technical data workshop
Call to Action:
Oregon’s limited water supplies are already being shaped by climate and population changes. We must both act now and plan for the long term. How we choose to care for our water will determine if we pass a legacy of clean and sustainable water to future generations.
Questions?

HOUSE WATER COMMITTEE