

2023 Integrated Water Resources Strategy (IWRS) Work Session

Water Resources Commission

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Work Session Agenda

Agenda

- Project Timeline
- Outreach & Engagement
- Draft changes for 3rd IWRS
- Questions & Discussion





IWRS Update Timeline

2023

JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Public Input

Draft IWRS

Public Review

Revise Draft

2024

JAN FEB MAR APR

Public Final Review IWRS



OUTREACH & ENGAGEMENT



- Facilitated Engagement
 - 7 In-person Community Conversations
 - 1 Virtual Community Conversation
 - Culturally-specific conversations
 - 3 Youth-specific events
- Self-led Conversations
- Public Survey (9 languages)

1700 Survey Responses & 200 Attendees



Oregon's
Kitchen Table
Summary
Report
July 17th



- Agency Survey
- Outreach/Consultation with Tribes
- State Agency Boards / Commissions





Oregon's Kitchen Table Summary Report

- Better inter-agency collaboration
- More education
- Want clarity, simplicity, accessibility in Strategy and governance
- More data (Quality and Quantity)
- Water equity (access, decision-making, enforcement)
- Better enforcement of current laws
- Concern for children and future generations



Oregon's Kitchen Table Summary Report

- Concern for streams, lakes, and wetlands in context of drought and climate change
- Inadequate funding for agencies for water management and enforcement
- Observing waste and/or illegal use
- Groundwater declines
- Water pollution, impacts on people and fish
- Mismatch between severity/urgency and actions



DRAFT CHANGES FOR 3RD IWRS



2023 Approach

Focus Areas

- Equity
- Climate Change
- 100-year Water Vision





Climate Change

IWRS Considerations

- Acknowledge the climate change implications with environmental justice
- Closer link between protection/restoration of natural systems and resilience functions
- Add language to example actions
- Data and research emphasis (re-located recommended action)



Equity

IWRS Considerations

- Acknowledge the historic inequities in the Water Code
- Include people impacted by decisions in decisionmaking processes
- Acknowledge environmental justice implications of climate change
- Include "Equity & Justice Considerations" for each recommended action



100-Year Water Vision

IWRS Considerations

- Tribal comments/concerns
- Need for more education, awareness among public regarding water challenges
- Data gaps exist for state and local efforts
- Restoration activities as a solution climate resilience
- Call for natural infrastructure
- Call for more water reuse

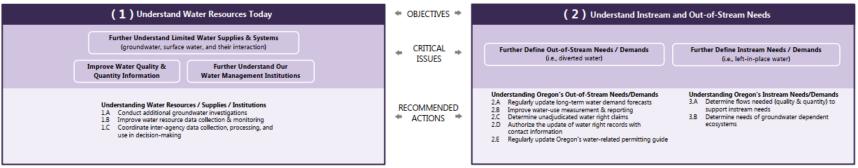


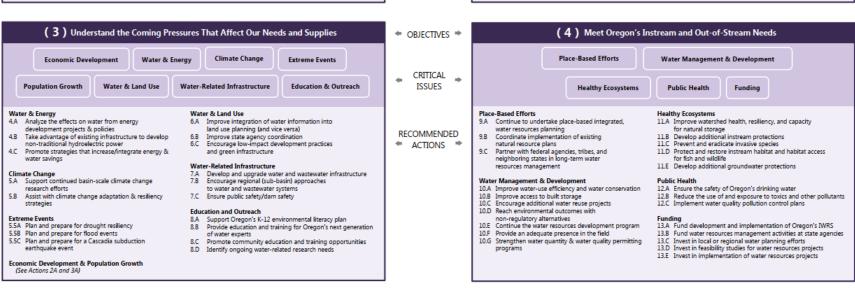
2023 DRAFT IWRS FRAMEWORK

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



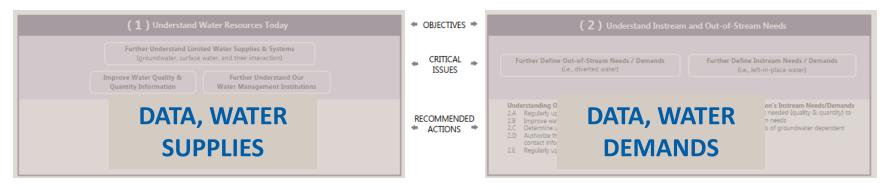




Oregon's 2017 Integrated Water Resources Strategy

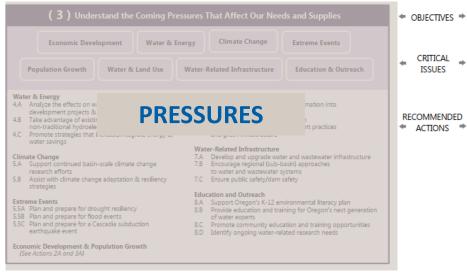
A framework for improving our understanding of Oregon's water resources and meeting our instream and out-of-stream needs, including water quantity, water quality, and ecosystem needs

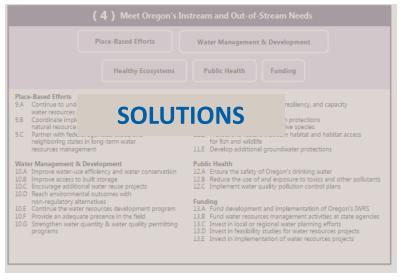




CRITICAL

ISSUES

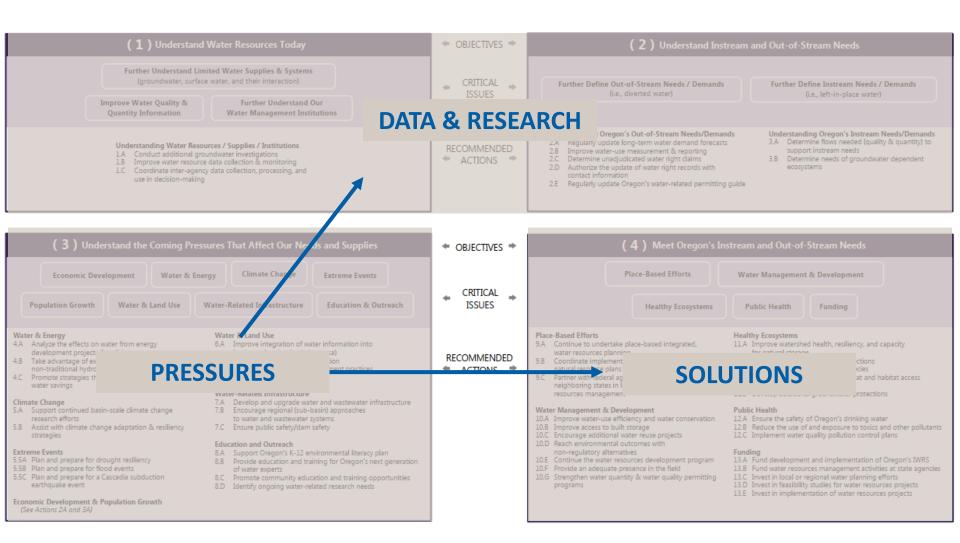




Oregon's 2017 Integrated Water Resources Strategy

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





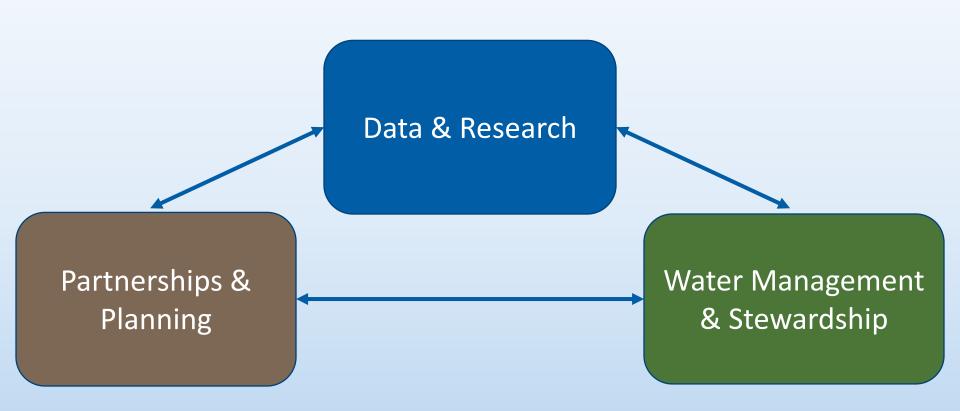


ORS 536.220 REQUIREMENTS

- (A)Oregon's in-stream and out-of-stream water needs, including but not limited to ecosystem services, water quality and water supply needs.
- **(B)**Objectives of the strategy.
- **(C)**Actions that are designed to achieve the objectives of the strategy.
- **(D)**Plans related to the challenges presented by climate change.
- (E)Provisions to ensure communication and partnership with key stakeholders.
- **(F)**Specific functions and roles to be played by state agencies, including but not limited to ODA, ODF, DHS, BIZOR, DLCD, OWEB, OPRD, and DSL.
- **(G)**Public policy options and recommendations.
- **(H)**Relevant strategy factors, including but not limited to population growth and land use change.
- (I)Recommendations of the Water Resources Department regarding the continuous monitoring of climate change effects on Oregon's water supply and regarding water user actions that are necessary to address climate change

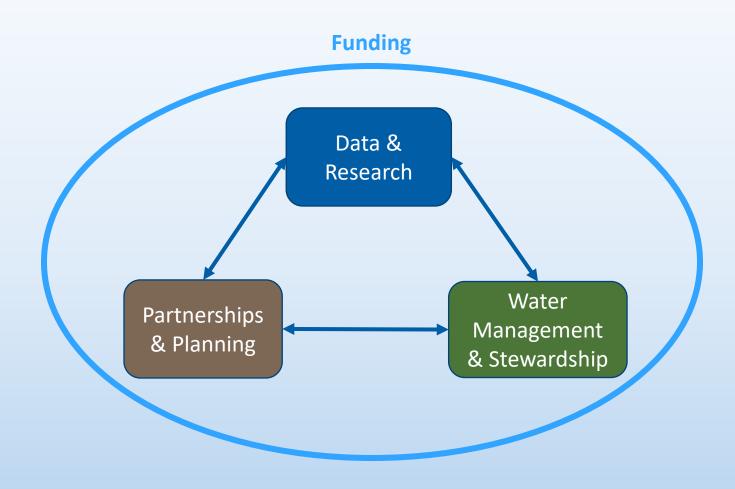


Types of Actions called for in the IWRS (and 100-Year Water Vision)...





Importance of funding for all instream and out-of-stream components...



In Progress...

Oregon's 2023 Integrated Water Resources Strategy - DRAFT 9/2023

Note: Recommended action numbers shown are using the 2017 IWRS numbering for ease of comparison

Objective 1: Understand our Water Resources Today

Objective 3: Understand the Coming Pressures That Affect Our Needs and Supplies

Objective 2: Understand Instream and Out-of-Stream Needs

Objective 4: Meet Oregon's Instream and Out-of-Stream Needs

Funding

13A - Fund Development and Implementation of Oregon's Integrated Water Resources Strategy

13B - Fund Water Resources Management Activities at State Agencies

13C-13E - Invest in planning, feasibility studies, and projects

Partnerships & Planning

Education [formerly Education & Outreach1

8C - Promote Community **Education and Training** Opportunities [swap order with

8A - Support Implementation of Oregon's K-12 Environmental Literacy Plan

8B - Provide Education and Training for Oregon's Next Generation of Water Experts 8D - Identify Ongoing Water-Related Research Needs [moved

to Water Quality & Quantity Information]

Coordination & Collaboration [new]

9C - Partner with Federal Agencies, Tribes, and Neighboring States in Long-Term Water Resources Management 6B - Improve State Agency Coordination

9B - Coordinate Implementation of Existing State and Local Natural

XX - Support Community Leaders and Community-Based Organizations to Engage in Planning & Decision-Making [new]

Resource Plans

Place-Based Efforts

9A - Continue to Undertake Place-Based Integrated Water Resources Planning 9B - Coordinate Implementation of Existing Natural Resource Plans-[moved to Coordination & Collaboration]

9C - Partner with Federal Agencies, Tribes, and Neighboring States in Long-**Term Water Resources Management** [moved to Coordination & Collaboration]

Land Use Planning [formerly Water &

6A - Improve Integration of Water Information into Land Use Planning (&

6B - Improve State Agency Coordination [moved to Coordination & Collaboration]

6C - Encourage Low Impact Development Practices and Green Infrastructure

Hazard Mitigation Planning & Extreme Events [formerly Extreme

5.5A - Plan and Prepare for Drought & Wildfire Resiliency

5.5B - Plan and Prepare for Flood Events

5.5C - Plan and Prepare for a Cascadia Subduction Earthquake Event

Data & Research

Water Quality & Quantity Information [formerly

Understanding Water Resources/Supplies/Institutions]

1A - Conduct Additional Groundwater Investigations XX - Conduct Additional Surface Water Investigations

5A - Support continued basin-scale climate change research efforts

1B - Improve Water Resource Data Collection and Monitoring

1C - Coordinate Inter-Agency Data Collection, Processing, and Use in Decision-Making

8D - Identify Ongoing Water-Related Research Needs

Out-of-Stream Water Needs [formerly Understanding Oregon's Out-of-Stream Needs/Demands1

2A - Regularly Update Out-of-Stream Long-Term Water **Demand Forecasts**

2B - Improve Water-Use Measurement and Reporting 2C - Determine Unadjudicated Water Rights Claims [moved to Water Use & Management]

2D - Authorize the Update of Water Right Records with Contact Information [delete, too detailed]

2E - Regularly Update Oregon's Water-Related Permitting Guide [change to example action under 10G]

Instream & Ecosystem Water Needs [formerly

Understanding Oregon's Instream Needs/Demands]

3A - Determine Flows Needed (Quality and Quantity) to Support Instream Needs

3B - Determine Needs of Groundwater Dependent

4A - Analyze the Effects on Water from Energy **Development Projects and Policies**

Water Management & Stewardship

Healthy Rivers & Ecosystems [formerly Healthy Ecosystems1

11A - Improve Watershed Health, Resiliency, and Capacity for Natural Storage

11B - Develop Additional Instream Protections

11C - Prevent and Eradicate Invasive Species

11D - Protect and Restore Instream Habitat and Habitat

Access for Fish and Wildlife 11E - Develop Additional Groundwater Protections

Pollution Management [formerly Public Health]

12A - Ensure the Safety of Oregon's Drinking Water 12B - Reduce the Use of and Exposure to Toxics and Other Pollutants

12C - Implement Water Quality Pollution Control Plans

Water Use & Management [formerly Water

Management & Development1

2C - Determine Unadjudicated Water Rights Claims

10A - Improve Water-Use Efficiency and Water Conservation

10B - Improve Access to Built Storage

10C - Encourage Additional Water Reuse Projects

10D - Reach Environmental Outcomes with Non-Regulatory Alternatives

10E - Continue the Water Resources Development

Program [Included as example actions under 13C, 13D,

10F - Provide an Adequate Presence in the Field 10G - Strengthen Oregon's Water Quantity and Water Quality Permitting Programs

Water Infrastructure [formerly Water-Related Infrastructure]

7A - Develop and Upgrade Water and Wastewater Infrastructure 7B - Encourage Regional (Sub-Basin) Approaches to Water and Wastewater Systems

7C - Ensure Public Safety / Dam Safety

XX - Utilize Green/Natural Infrastructure [new]

Water and Energy

4A - Analyze the Effects on Water from Energy Development Projects and Policies [moved to Instream & **Ecosystem Water Needs**]

4B - Take Advantage of Existing Infrastructure to Develop Non-Traditional Hydroelectric Power 4C - Promote Strategies that Increase/Integrate Energy and Water Savings

> "5B Assist with climate change adaptation & resiliency strategies" has been distributed throughout the Strategy

Climate change, population growth, land use change, economic impacts, and energy demand are all important stressors considered throughout the Strategy

Refined...

Oregon's 2023 Integrated Water Resources Strategy - DRAFT 9/2023

Note: New recommended action numbering is proposed. 2017 IWRS recommended action numbering is shown in [brackets].

Objective 1: Understand our Water Resources Today

INFORMS

Objective 3: Understand the Coming Pressures That Affect Our Needs and Supplies

Objective 2: Understand Instream and Out-of-Stream Needs

Objective 4: Meet Oregon's Instream and Out-of-Stream Needs

Funding

1A [13A] - Fund Development and Implementation of Oregon's Integrated Water Resources Strategy 1B [13B] - Fund Water Resources Management Activities at State Agencies

1C [13C-E] - Invest in planning, feasibility studies, and water resource project implementation

Partnerships & Planning

Education

2A[8C] - Promote Community **Education and Training** Opportunities 2B[8A] - Support Implementation

of Oregon's K-12 Environmental Literacy Plan

2C[8B] - Provide Education and Training for Oregon's Next Generation of Water Experts

Coordination & Collaboration

[new]

3A[9C] - Partner with Federal Agencies, Tribes, and Neighboring States in Long-Term Water Resources Management 3B[6B] - Improve State Agency Coordination

3C[9B] - Coordinate Implementation of Existing State and Local Plans

3D[new] - Support Community Leaders and Community-Based Organizations to Engage in Planning & Decision-Making

Place-Based Efforts

4A[9A] - Continue to Undertake Place-Based Integrated Water Resources Planning

Land Use Planning

5A[6A] - Improve Integration of Water Information into Land Use Planning (& Vice-Versa) 5B[6C] - Encourage Low Impact Development Practices and Green Infrastructure

Hazard Mitigation Planning & Extreme Events

6A[5.5A] - Plan and Prepare for Drought & Wildfire Resiliency 6B[5.5B] - Plan and Prepare for Flood Events 6C[5.5C] - Plan and Prepare for a Cascadia Subduction

Earthquake & Tsunami Event

Data & Research

Water Quality & Quantity Information

7A[1A] - Conduct Additional Groundwater Investigations

7B[new] - Conduct Additional Surface Water Investigations

7C[5A] - Support continued basin-scale climate change research efforts

7D[1B] - Improve Water Resource Data Collection and Monitoring

7E[1C] - Coordinate Inter-Agency Data Collection, Processing, and Use in Decision-Making

7F[8D] - Identify Ongoing Water-Related Research Needs

Out-of-Stream Water Needs

8A[2A] - Regularly Update Out-of-Stream Long-Term Water Demand Forecasts 8B[2B] - Improve Water-Use Measurement and Reporting

Instream & Ecosystem Water Needs

9A[3A] - Determine Flows Needed (Quality and Quantity) to Support Instream Needs 9B[3B] - Determine Needs of Groundwater Dependent Ecosystems 9C[4A] - Analyze the Effects on Water from Energy Development Projects and Policies

Water Management & Stewardship

Healthy Rivers & Ecosystems

10A[11A] - Improve Watershed Health, Resiliency, and Capacity for Natural Storage

10B[11B] - Develop Additional Instream Protections

10C[11C] - Prevent and Eradicate Invasive Species 10D[11D] - Protect and Restore Instream Habitat and

Habitat Access for Fish and Wildlife

10E[11E] - Develop Additional Groundwater Protections

Pollution Management [Public Health]

11A[12A] - Ensure the Safety of Oregon's Drinking Water 11B[12B] - Reduce the Use of and Exposure to Toxics and Other Pollutants

11C[12C] - Implement Water Quality Pollution Control Plans

Water Use & Management

INFORMS

12A[2C] - Determine Unadjudicated Water Rights Claims 12B[10A] - Improve Water-Use Efficiency and Water Conservation

12C[10B] - Improve Access to Built Storage

12D[10C] - Encourage Additional Water Reuse Projects

12E[10D] - Reach Environmental Outcomes with Non-

Regulatory Alternatives

12F[10F] - Provide an Adequate Presence in the Field

12G[10G] - Strengthen Oregon's Water Quantity and Water Quality Permitting Programs

Water Infrastructure

13A[7A] - Develop and Upgrade Water and Wastewater Infrastructure

13B[7B] - Encourage Regional (Sub-Basin) Approaches to Water and Wastewater Systems

13C[7C] - Ensure Public Safety / Dam Safety 13D[new] - Utilize Natural Infrastructure

Water and Energy

14A[4B] - Take Advantage of Existing Infrastructure to Develop Non-Traditional Hydroelectric Power 14B[4C] - Promote Strategies that

Increase/Integrate Energy and Water Savings

Climate change, population growth, land use change, economic impacts, and energy demand are all important stressors considered throughout the Strategy

Partnerships & Planning

Education

- 2A[8C] Promote Community Education and Training Opportunities
- 2B[8A] Support Implementation of Oregon's K-12 Environmental Literacy Plan
- 2C[8B] Provide Education and Training for Oregon's Next Generation of Water Experts

Coordination & Collaboration [new]

- 3A[9C] Partner with Federal Agencies, Tribes, and Neighboring States in Long-Term Water Resources Management
- 3B[6B] Improve State Agency Coordination
- 3C[9B] Coordinate Implementation of Existing State and Local Plans
- 3D[new] Support Community Leaders and Community-Based Organizations to Engage in Planning & Decision-Making

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4A[9A] - Continue to Undertake Place-Based Integrated
 Water Resources Planning

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- 5A[6A] Improve Integration of Water Information into Land Use Planning (& Vice-Versa)
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Water Quality & Quantity Information

- 7A[1A] Conduct Additional Groundwater Investigations
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- 7C[5A] Support continued basin-scale climate change research efforts
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- 7E[1C] Coordinate Inter-Agency Data Collection, Processing, and Use in Decision-Making
- 7F[8D] Identify Ongoing Water-Related Research Needs

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- 8A[2A] Regularly Update Out-of-Stream Long-Term Water Demand Forecasts
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- 10B[11B] Develop Additional Instream Protections
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- 10D[11D] Protect and Restore Instream Habitat and Habitat Access for Fish and Wildlife
- 10E[11E] Develop Additional Groundwater Protections

Pollution Management [Public Health]

- 11A[12A] Ensure the Safety of Oregon's Drinking Water
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Water Management & Stewardship

Water Use & Management

- 12A[2C] Determine Unadjudicated Water Rights Claims
- 12B[10A] Improve Water-Use Efficiency and Water Conservation
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- 12F[10F] Provide an Adequate Presence in the Field
- 12G[10G] Strengthen Oregon's Water Quantity and Water Quality Permitting Programs

Water Infrastructure

- 13A[7A] Develop and Upgrade Water and Wastewater Infrastructure
- 13B[7B] Encourage Regional (Sub-Basin) Approaches to Water and Wastewater Systems
- 13C[7C] Ensure Public Safety / Dam Safety
- 13D[new] Utilize Natural Infrastructure

Water Management & Stewardship

Water and Energy

- 14A[4B] Take Advantage of Existing Infrastructure to Develop Non-Traditional Hydroelectric Power
- 14B[4C] Promote Strategies that Increase/Integrate Energy and Water Savings



New!

1-page IWRS Recommended Action Summaries

Critical Information:

- Example Actions
- Lead, Supporting Agencies, & Partners
- Equity Considerations
- Agency Programs
- Workgroups
- Documents

2017 IWRS Recommended Action and Example Actions:

Recommended Action 3.A Determine Flows Needed (Quality and Quantity) to Support Instream Needs

Examples of how to implement this action:

- Prioritize and install gages in additional locations to monitor the status of instream flows and water rights
- Identify basins with listed species and install monitoring equipment to help characterize the suite of flows through these basins
- Conduct instream needs studies, such as base flow studies and elevated flow requirements or prescriptions
- Pursue a consistent, model-based framework for characterizing long-term instream demand and integrate projections of future climate for planning purposes
- Develop models/studies to quantify the economic, social, and cultural value of instream uses
- Support state agency instream flow efforts and programs (e.g., ODFW, ODEQ, OPRD)



QUESTIONS & DISCUSSION



2023 Business Case for Water

Previous Comment from Commissioner:

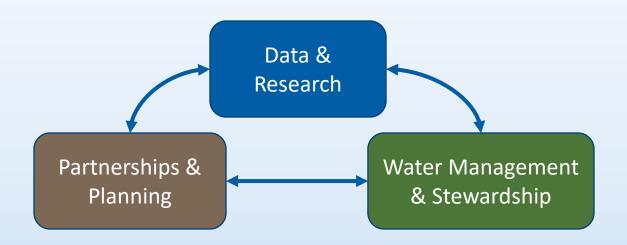
5 Guideposts for Action

- Invest in whole-watershed and nature-based approaches
- Fund innovative governance and policy adaptations
- Focus on modernizing infrastructure across the landscape
- Enhance water justice by authentically engaging frontline communities in policy and power and targeting investment
- Recognize and invest to support Tribal economic, spiritual and cultural values for water and fish



Question #1

What do you think about the proposed change to the Framework, action categories:



Does this resonate with you, lawmakers, public, stakeholders?



Question #2

Are there any headings/topics you feel are missing, or confusion about where a certain topic would be located?





Question #3

In addition to the 1-page recommended action summaries, do you have other ideas for assisting agencies with translating the IWRS into action?





Conclusion

- Upcoming IWRS public comment windows
 - October
 - January
- November WRC
- Targeting 2024 IWRS Adoption

