

Overview

The Institute for Natural Resources & the Independent Science Review Process as Envisioned by the 2015 SB202 Task Force

Lisa Gaines, INR Director

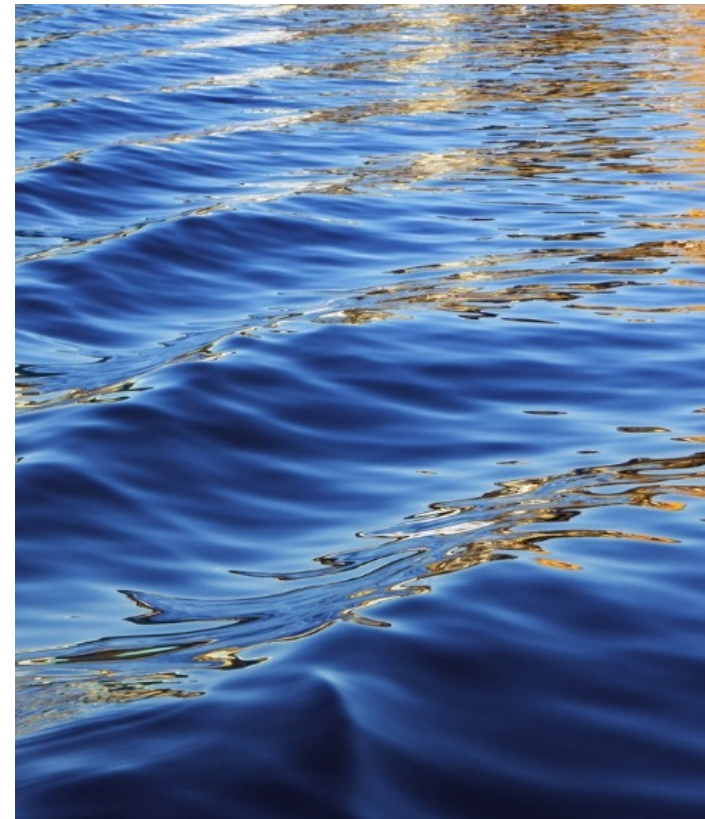
14 May 2019





Institute for Natural Resources

Oregon State University | Portland State University



Institute for Natural Resources

The Institute for Natural Resources (INR) is a cooperative enterprise helping link the science-based knowledge and expertise of Oregon's universities with natural resource decision making; and providing access to integrated information, data, tools, and knowledge to inform natural resource decision making.

We are headquartered at Oregon State University and have offices at Portland State University.



Oregon State
University



Portland State
UNIVERSITY



INSTITUTE FOR
NATURAL RESOURCES

Mandate



- Serve as a clearinghouse for scientifically based natural resources information
- Provide scientifically based natural resources information to the public in integrated and accessible formats.
- Coordinate efforts with other state agencies and bodies to provide natural resources information to the public in a comprehensive manner.
- Facilitate and conduct research.
- Provide information and technical tools to assist decision-making on natural resources issues.
- Assist the State Parks and Recreation Commission in carrying out the Natural Areas Program.

Our vision

To be “*Oregon’s place*” – a neutral venue where anyone can ask questions, propose studies, and learn about natural resources and environmental conditions throughout Oregon and Oregon’s place in the world.

Our mission

Our mission is to provide reliable, objective, relevant, and science-based integrated natural resource knowledge to facilitate long-term stewardship of Oregon’s environments and natural resources.



By *knowledge* we mean the synthesis of expertise, research findings, data, tools & information.



What we do

- Data and Information Integration and Access
- Research Coordination
- Science Review and Advisory Services
- Technical Assistance and Analysis
- Training and Capacity Building

Our community

Oregon's natural resource agencies, policy makers, natural resource stewards, scientists, educators, students, and residents.



EXPLORER Natural Resources Digital Library

Home Topics Places Tools Data

Type something...

Search

All Topics Places

<https://oregonexplorer.info/>

Explore TOPICS

- Animals and Plants
- Climate, Water, and Air
- Coast, Ocean, and Marine
- Forestry and Agriculture
- Land Use and Planning
- Landscapes and Ecosystems
- People and Communities

TOP PICKS

- Hazards
- Imagery: New Services!
- Land Use
- Rural Communities
- Sage-Grouse
- Wetlands
- Wildfire Risk

Explore PLACES

Find a place or address.

Countries State/Pro

TYPE ANY PLACE OR ADDRESS HERE

CHANGE THE GEOGRAPHY

CLICK THE MAP TO EXPLORE

Start Exploring

Earthstar Geographics

Go to the Full Advanced OE Map Viewer

TOOLS

Communities Reporter



Oregon Explorer ATLAS



Oregon Explorer Map

FEATURES

Wildfire Risk



Oregon Wildfire Risk Explorer Basic Map

Coastal Research



Coastal Research Explorer

Sage-Grouse



Who Cares, and Why? The Oregon SageCon



Layers



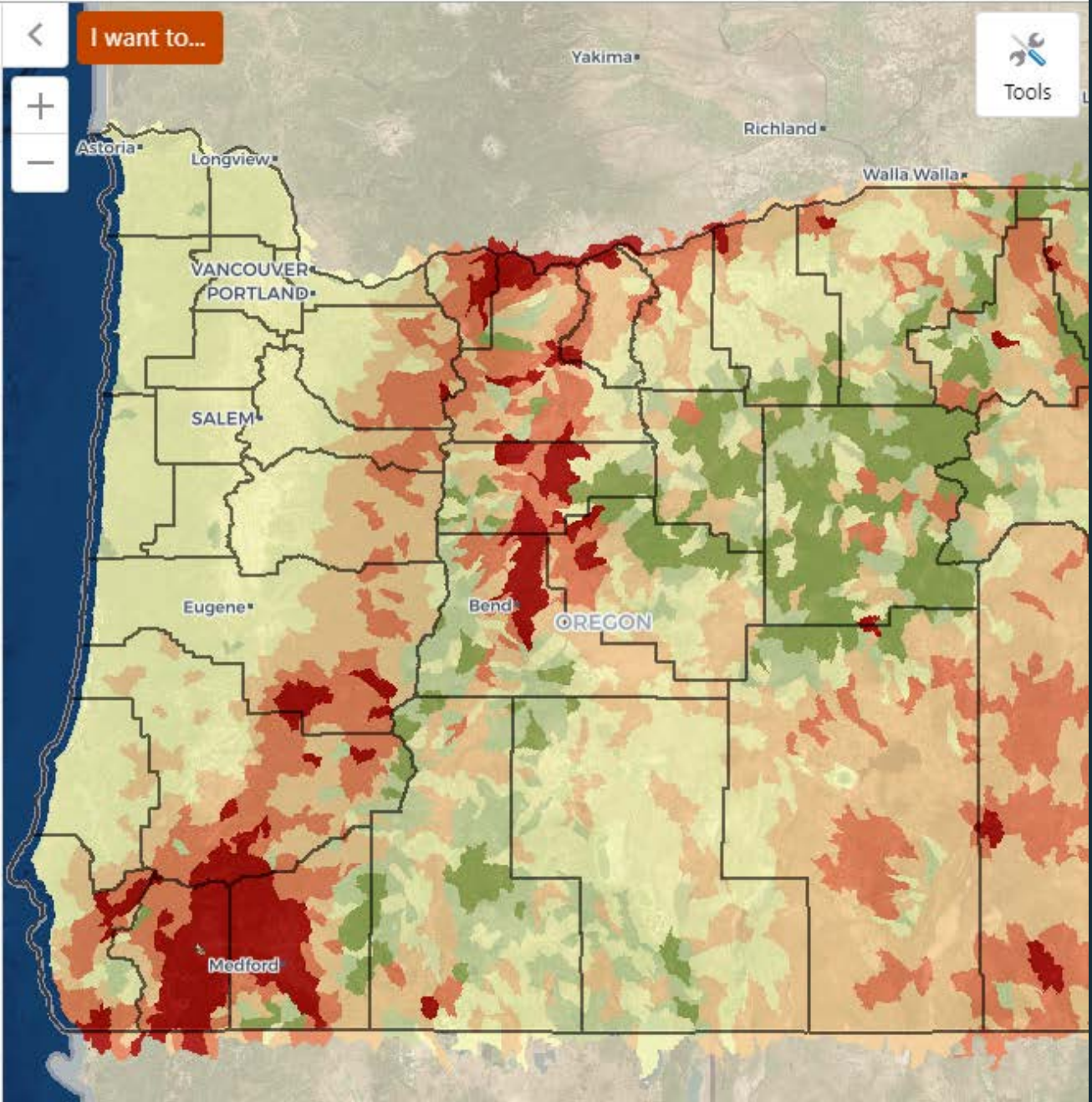
I want to...

Filter Layers...



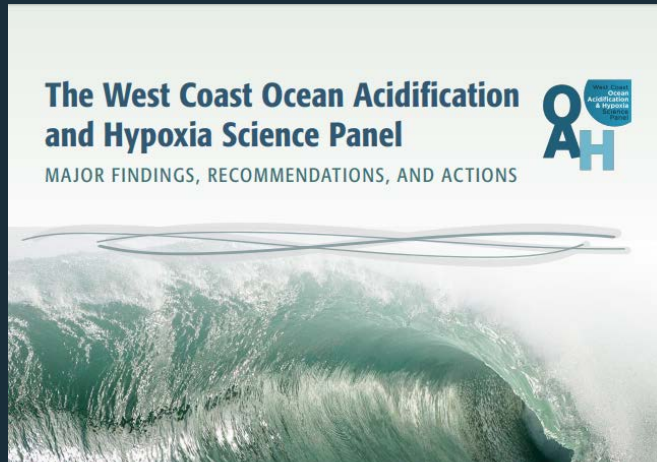
Filter

- Wildfire Risk
- Wildfire Threat
- Wildfire Potential Impacts
- Hazard to Potential Structures
- Fire Model Inputs and Fuelscape
- Watershed Summaries
 - Overall Wildfire Risk - Watershed
 - Very High
 - High
 - Moderate
 - Low
 - Low Benefit
 - Benefit
 - Burn Probability - Watershed
 - Average Flame Length - Watershed
 - Wildfire Risk to Assets - Watershed



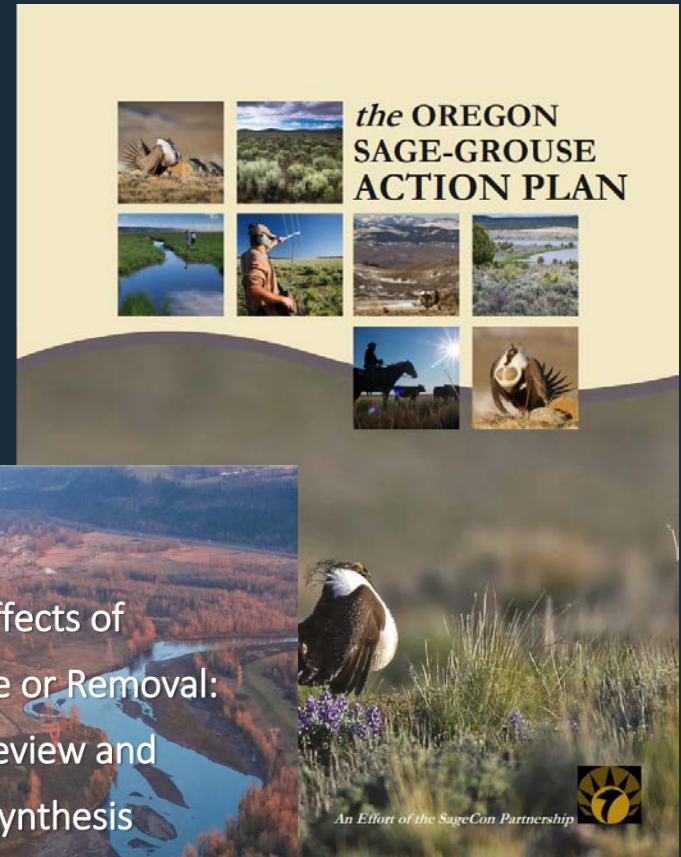


Integrated Landscape Assessment Project



The West Coast Ocean Acidification and Hypoxia Science Panel

MAJOR FINDINGS, RECOMMENDATIONS, AND ACTIONS



the OREGON SAGE-GROUSE ACTION PLAN



An Effort of the SageCon Partnership



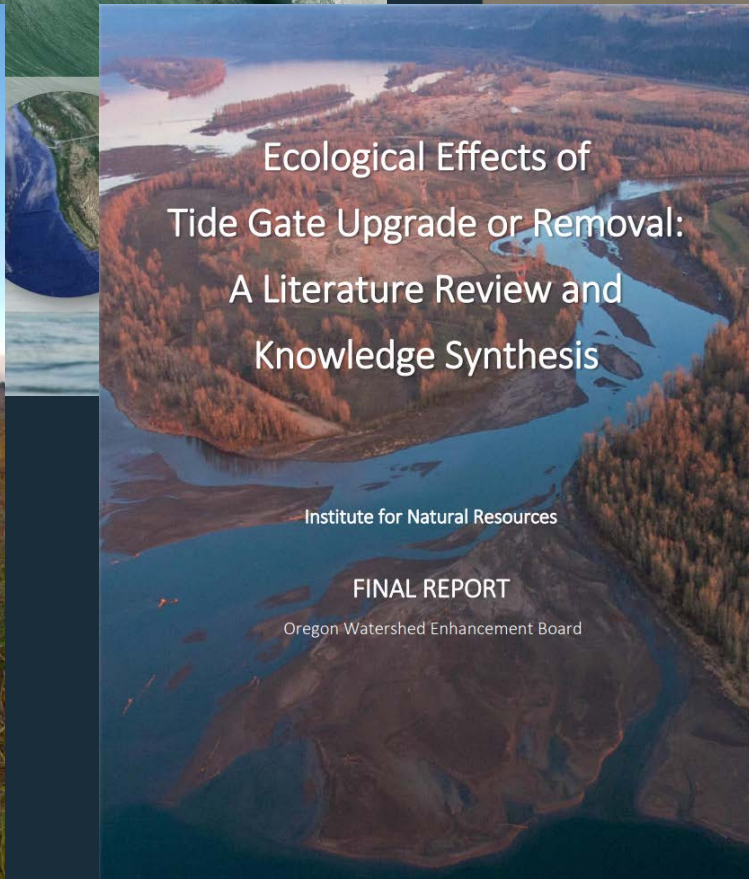
Independent Science Reviews for Natural Resources in the State of Oregon

SB202 Task Force for Independent Science Reviews for Natural Resources
Institute for Natural Resources

FINAL REPORT

for the Oregon State Legislature
SB202 Task Force

15 September 2016



Ecological Effects of Tide Gate Upgrade or Removal: A Literature Review and Knowledge Synthesis

Institute for Natural Resources

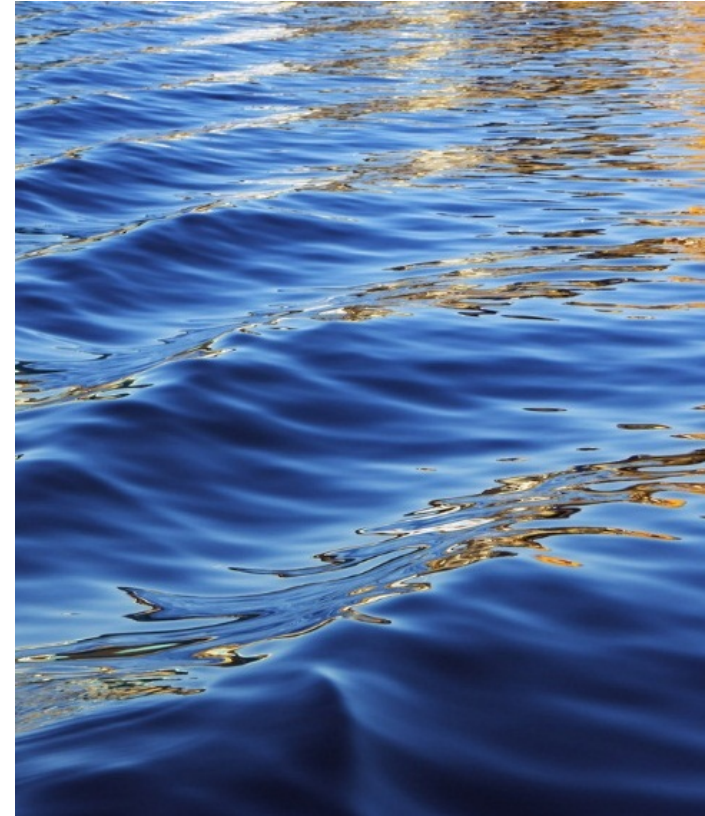
FINAL REPORT

Oregon Watershed Enhancement Board



2015 SB 202 Task Force

on Independent Science Reviews for Natural
Resources in Oregon



Charge of the SB202 Task Force

- Assess the need for independent science review in Oregon
- Recommend one or more entities
- Recommend if legislative authority is needed
- Recommend structure and function of the process to be used

Task Force Members

Allison Aldous, Freshwater Scientist, The Nature Conservancy

Jennifer Allen, Associate Professor, Hatfield School of Government PSU

Adell Amos, Associate Dean for Academic Affairs, School of Law, UO

Barbara Bond, Professor Emeritus, College of Forestry, OSU

Tim Deboodt, Associate Professor, College of Agricultural Sciences, OSU Extension

Dan Edge, Associate Dean, College of Agricultural Sciences, OSU

Linda George, Professor, School of the Environment, PSU

Sara Gray, Senior Corporate Counsel, Precision Castparts

Michael Harte, Professor, College of Earth, Ocean and Atmospheric Sciences, OS

Cassandra Moseley, Associate Vice President for Research, UO

Maryanne Reiter, Hydrologist, Weyerhaeuser

Mark Sytsma, Professor and Director Center for Lakes and Reservoirs, PSU

Jason Younker, Assistant Vice President and Advisor to the President on Sovereignty and Government-to-Government Relations, UO

Approach

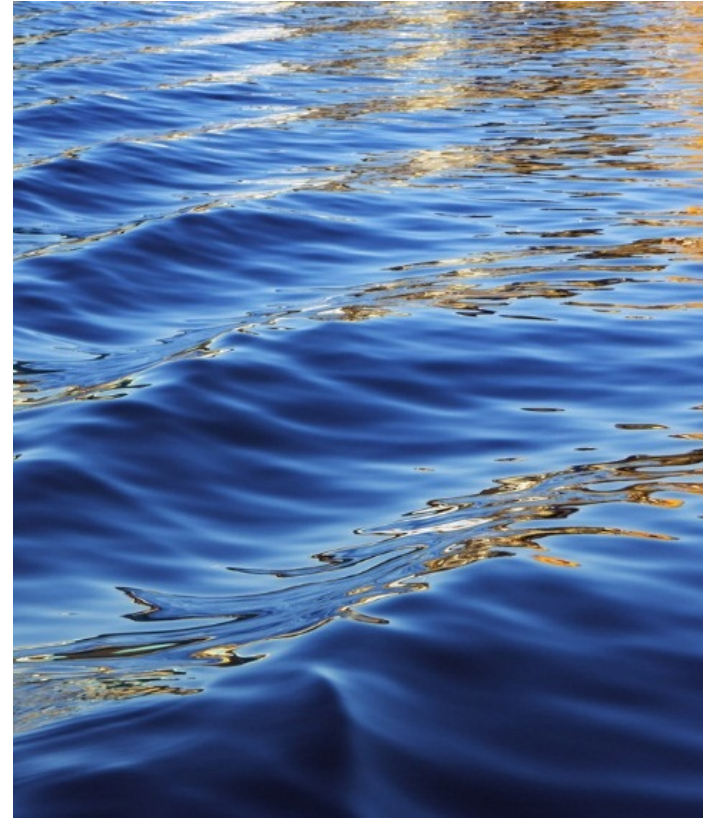
- **Task Force structure**
Selection, representation, support
- **Process**
Meetings, framing the work
- **Information gathering methods**
Literature review, interviews/questionnaire
- **Outreach**
Promoting awareness, soliciting participation and input

Independent Science Review (ISR), as defined by the Task Force,
is an external assessment of a stated scientific question or issue that:

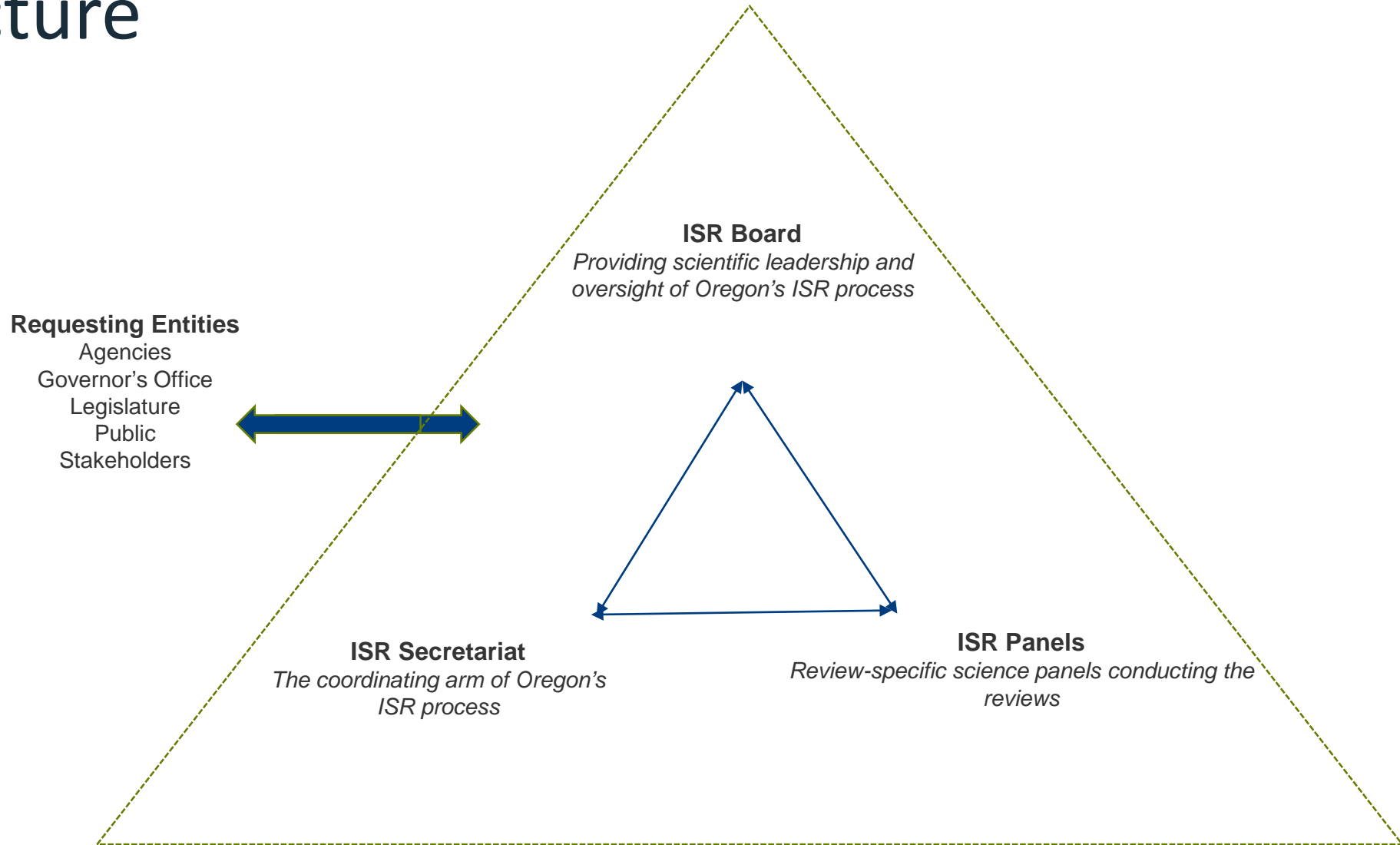
- produces unbiased conclusions regarding the current understanding of relevant information, methodology and assumptions relating to that scientific question or issue;
- includes, as applicable, an assessment of the risks, costs and benefits of potential alternative decisions or policies; and,
- is conducted by reviewers who:
 - **have little personal stake in the nature of the outcome** of decisions or policies, in terms of financial gain or loss, career advancement, or personal or professional relationships;
 - can **perform the review tasks free of undue influence** by others associated with the decision process;
 - have **demonstrable competence** in the subject as evidenced by formal training and/or experience; and,
 - should be **required to disclose any potential personal stake or conflict of interest** with respect to the stated question/issue.



Recommended Structure and Roles of Oregon's Independent Science Review Process



Structure



Roles

- **Requesting Entities**

Selection, representation, support

- **Independent Science Reviews Board**

Provides scientific leadership and oversight, including but not limited to selecting which reviews are undertaken, negotiating the science review questions, and selecting the review-specific ISR panels. **The Board shall not independently propose science issues to review.**

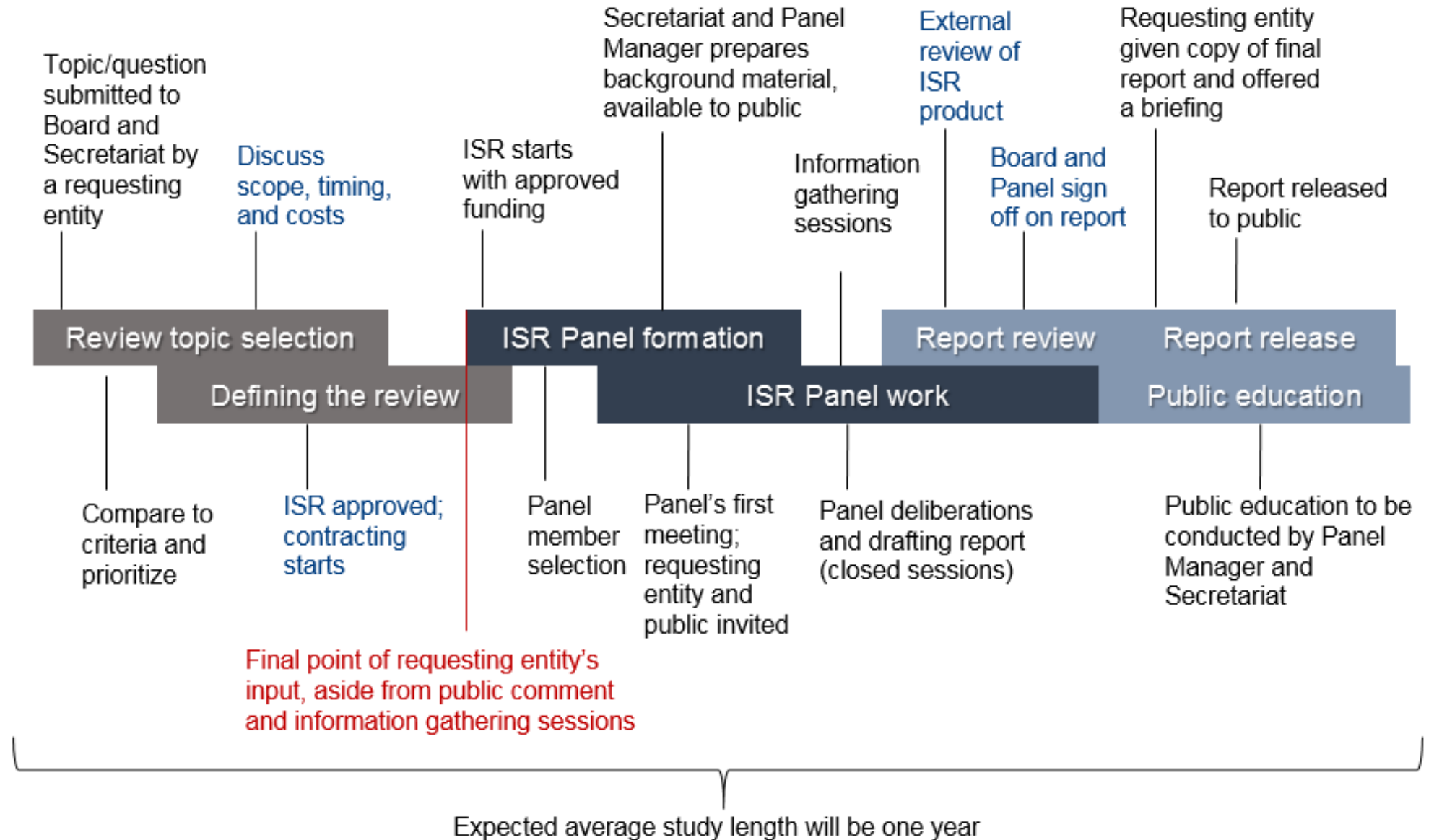
- **Secretariat**

Is the coordinating arm and backbone of Oregon's ISR process, advising ISR requestors and providing research, technical and administrative support to the Board and the review-specific panels

- **Review Panels**

Review-specific panels are formed once an ISR question has been selected for review by a meeting of the Board, after the Board is satisfied that sufficient resources (staff and financial) are available to complete the review in a timely manner to the standard expected of the ISR.

Process



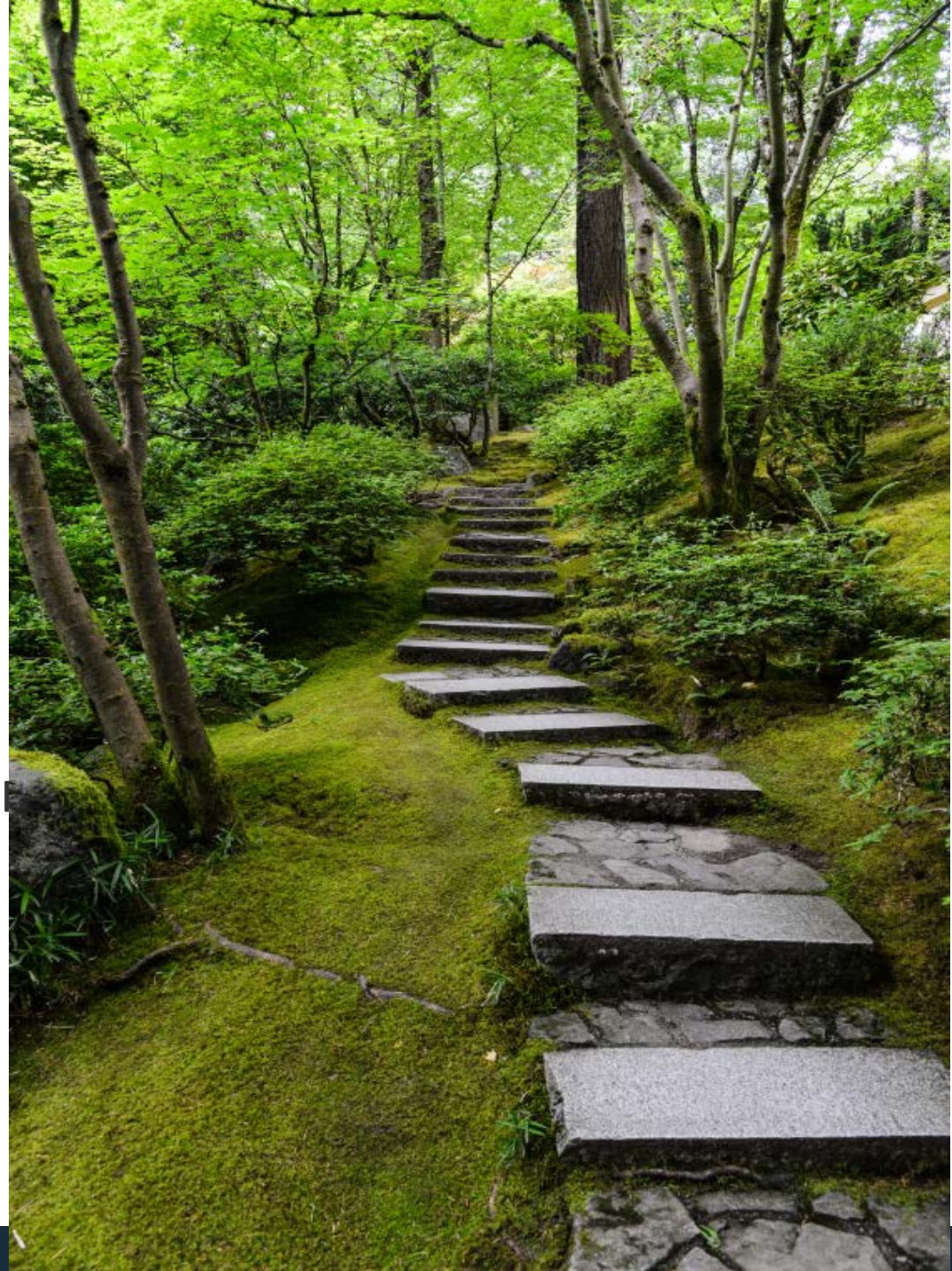
Oregon's ISR Products

Deploying ISRs at different stages of the policy development or rule-making process could necessitate using different ISR products or services at different points.

- Informal or formal consultations or roundtable discussions
- Formally researched and written reviews or consensus reports
- Workshops, conferences, or symposia
- White papers or knowledge syntheses
- Develop best practices for scientific review in natural resource management in conjunction with agencies

Principles

- Cost effectiveness
- Integrity
- Usefulness
- Flexibility
- Inclusiveness and transparency



Key Points

Oregon Independent Science Review Process

- Rigor in question selection
 - Transdisciplinary issues, likelihood of “high impact”, regional or state-wide relevance, future-oriented
- Transparent process
- Sufficient funds are available to conduct review—not a “pay-to-play” system



INSTITUTE FOR
NATURAL RESOURCES

inr.oregonstate.edu

inr.oregonstate.edu/sb202/deliverables

