



**Oregon Coordinating
Council on Ocean
Acidification & Hypoxia**

OAH Council Update

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Outline

- About the OAH Council
- Fourth Biennial Report
- Oregon Ocean Change Action Plan



About the OAH Council



Dr. Laurie Juranek
OSU,
Council Co-Chair



Kristen Penner
Shellfish Industry
Representative



Alex Manderson
ODA



Dr. Keith Wolf
OOST



Dr. Leif Rasmuson
ODFW,
Council Co-Chair



Fran Recht
NGO
Representative



Dr. Karina Nielsen
OR Sea Grant



Andy Lanier
DLCD



Dr. Jessica Miller
Academic
Representative



Rian vanden Hoof
DEQ



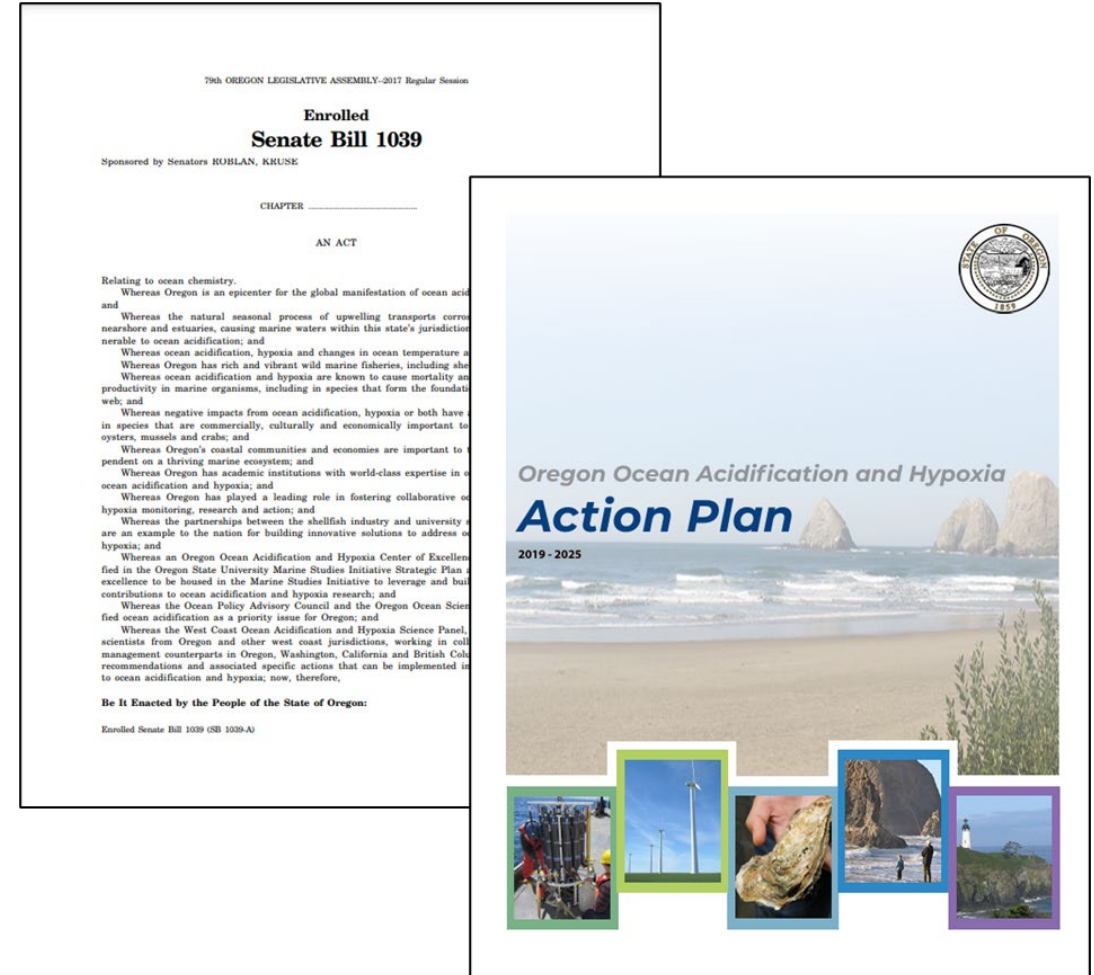
Bob Kemp
Fishing Industry
Representative

Vacant - Tribal
Representative

Vacant - Governor's Office
Representative

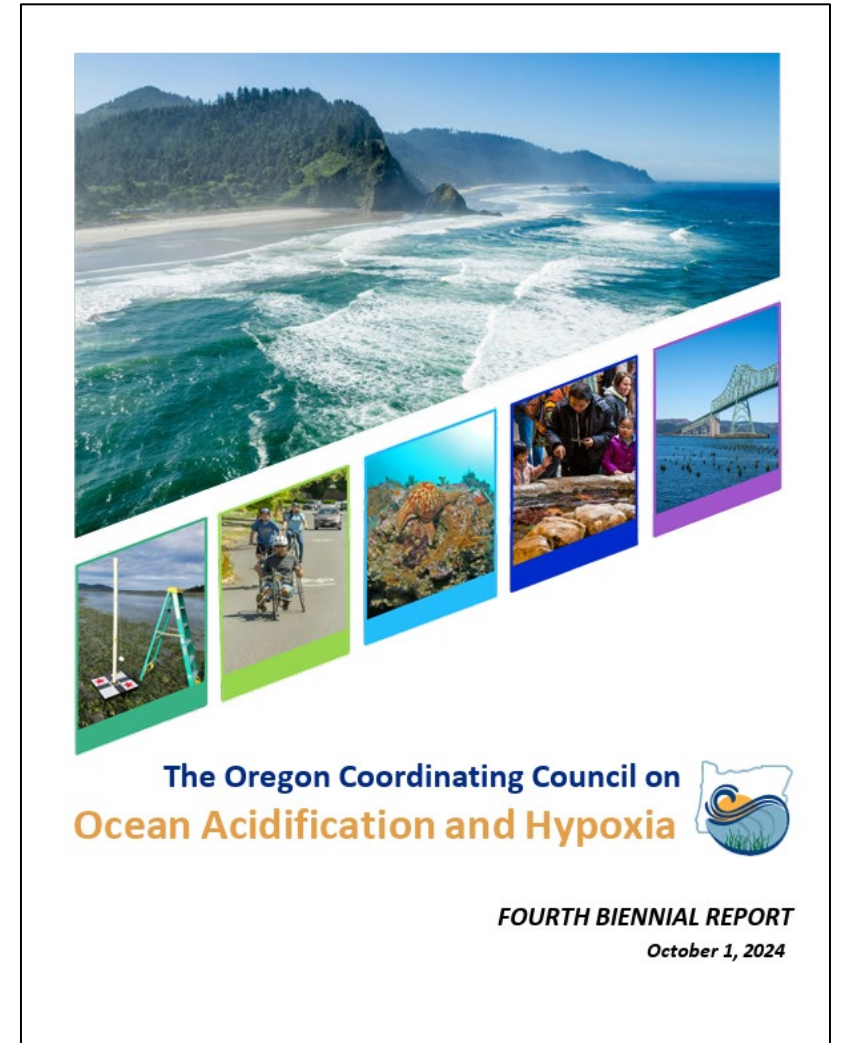
About the OAH Council

- **2017** – Legislature established OAH Council to advise on OAH science and actions
- **2019-2025** – Oregon OAH Action Plan
 - Monitoring pH in shellfish hatcheries to mitigate economic failure
 - Listing of Oregon waters as impaired for ocean acidification, a first for the United States
 - Fishermen awareness and collaboration
- **Biennial Reports to Legislature**

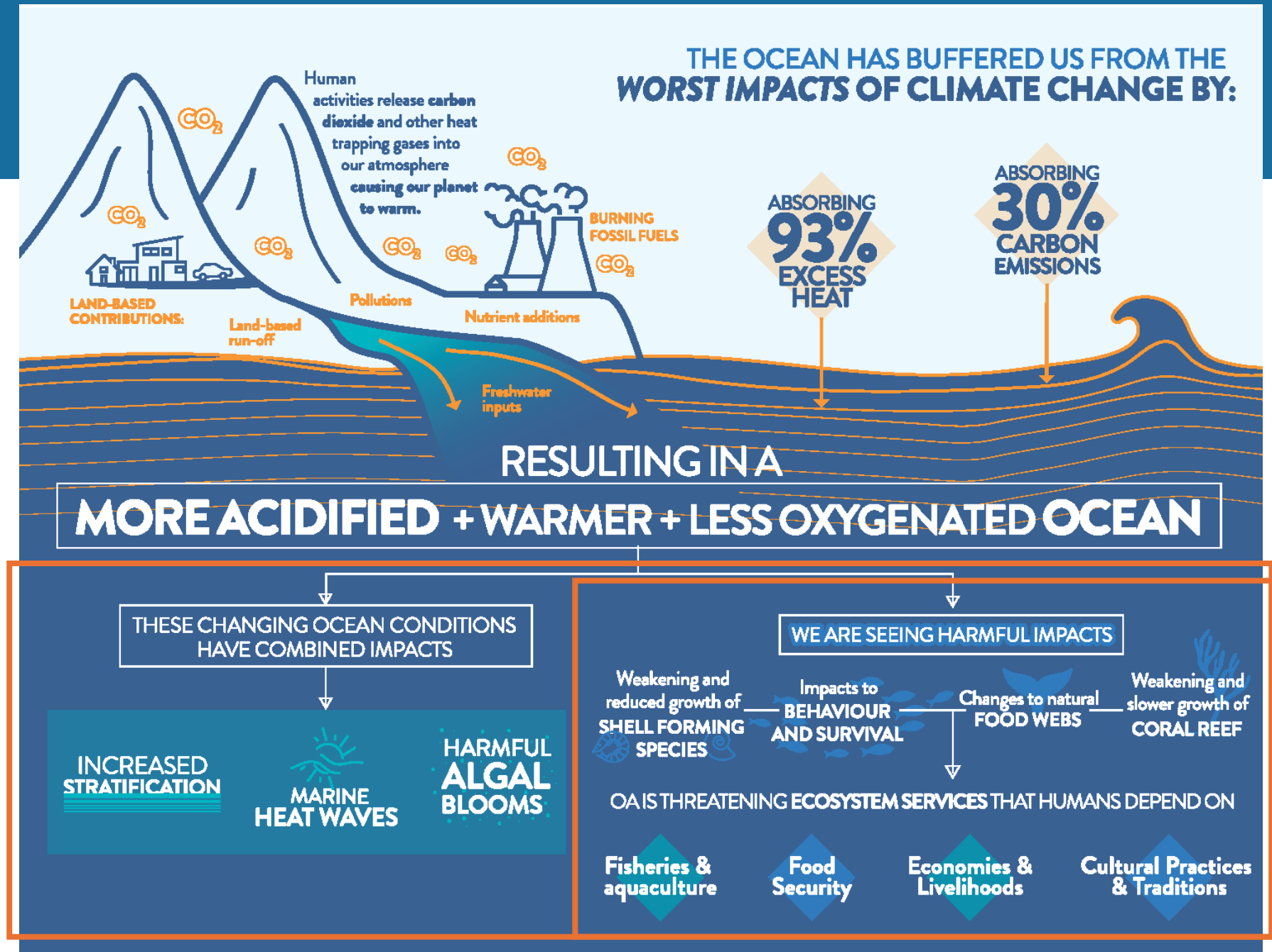


Fourth Biennial Report: Noteworthy Milestones

- Projects funded through House Bill 3114:
 - Essential OAH monitoring in Oregon's estuaries and nearshore waters
 - Monitoring and improving resilience of oyster fisheries and habitat
 - Science-based recommendations for comanaging submerged aquatic vegetation and shellfish fisheries
 - Oregon's first OAH Communication Plan
- Listing of Oregon waters as impaired for ocean acidification
- Coordinated with West Coast partners to establish best practices for regulating and monitoring OA water quality impacts
- Fisherman-Scientist OAH Roundtables and OAH Symposium



OAH
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Ocean Change



Oregon Ocean Change Action Plan: Five Priority Actions

- **Action 1:** Support activities and initiatives that **promote adaptation and resilience** to ocean change in Oregon's coastal communities and ecosystems
- **Action 2: Advance scientific understanding** by investing in Oregon's capacity for research and monitoring to document oceanographic and biological conditions and socio-economic vulnerabilities to ocean change
- **Action 3:** Develop and integrate strategies to **reduce excess carbon dioxide (CO₂) and other causes** of ocean change
- **Action 4:** Communicate ocean change science, impacts, and solutions to **raise awareness** and support decision-making
- **Action 5: Increase and sustain support** for state agencies and their mobilization to address ocean change

Action 1: Promote adaptation and resilience

Step 1: Identify strategies to protect, sustain, and restore native marine and anadromous fish, shellfish, and wildlife populations their habitats in Oregon's estuaries and nearshore waters.

Step 2: Support data collection, analysis, and modeling to inform strategies that promote ecosystems that are resilient to ocean change.

Step 3: Develop and implement best management practices focused on Oregon's estuaries and nearshore waters.



Action 2: Advance scientific understanding

Step 1: Fund new and existing oceanographic research sites to monitor Oregon's changing ocean.

Step 2: Invest in monitoring of biological and ecological responses to changing ocean conditions.

Step 3: Fund a socio-economic vulnerability assessment to determine Oregon's vulnerabilities to ocean change.



Action 3: Reduce Causes

Step 1: Establish regular communication and coordination to address excess CO₂ and ocean change stressors locally and globally.

Step 2: Support scientific research leading to recommendations on effective and efficient ways to reduce and remove excess CO₂ in estuaries and nearshore waters.

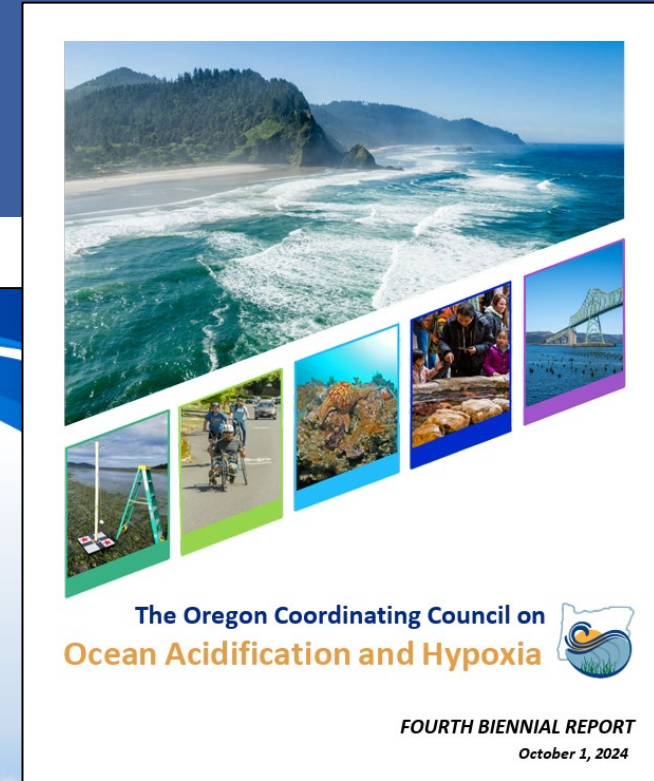
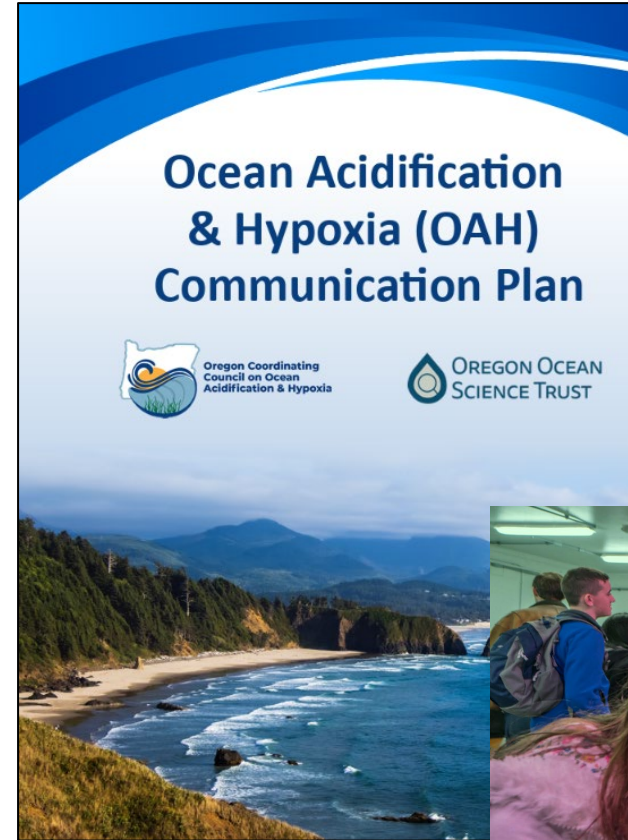
Step 3: Implement recommendations to reduce and remove excess CO₂ in estuaries and nearshore waters and encourage action.



Action 4: Expand Public Awareness

Step 1: Revise the existing OAH communications plan to encompass ocean change so that state agencies and their Partners can implement it.

Step 2: Provide timely updates to Oregon Legislature, other policy-makers, and affected communities to inform decisions on how best to invest in ocean change.



Action 5: Continue sustained support

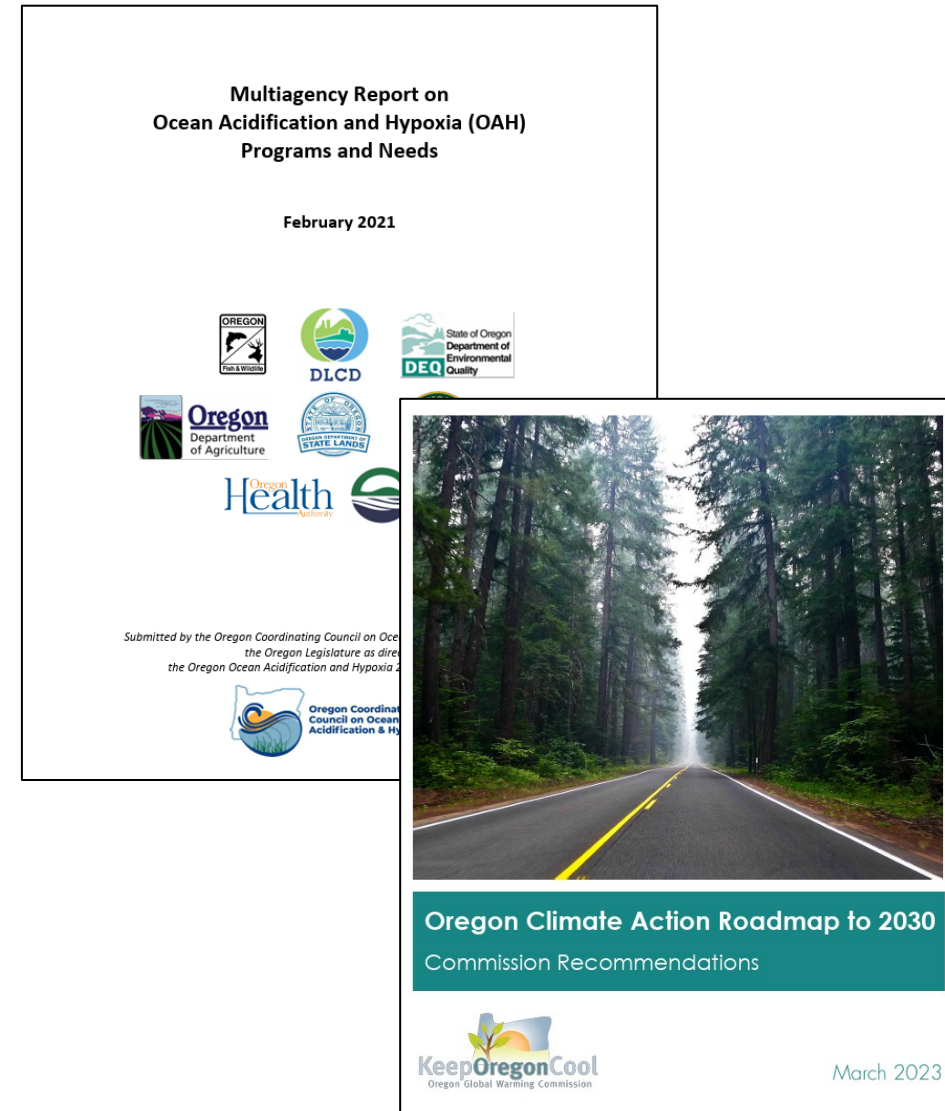
Step 1: The Governor issues a unifying direction to state agencies and climate councils and commissions to use this Action Plan to address ocean change.

Step 2: The Governor's Natural Resources Office provides guidance to agencies on ocean change action priorities.

Step 3: State agencies implement measures to fill gaps.

Step 4: Climate directives from OCAC incorporate ocean change, a major driver of Oregon's climate.

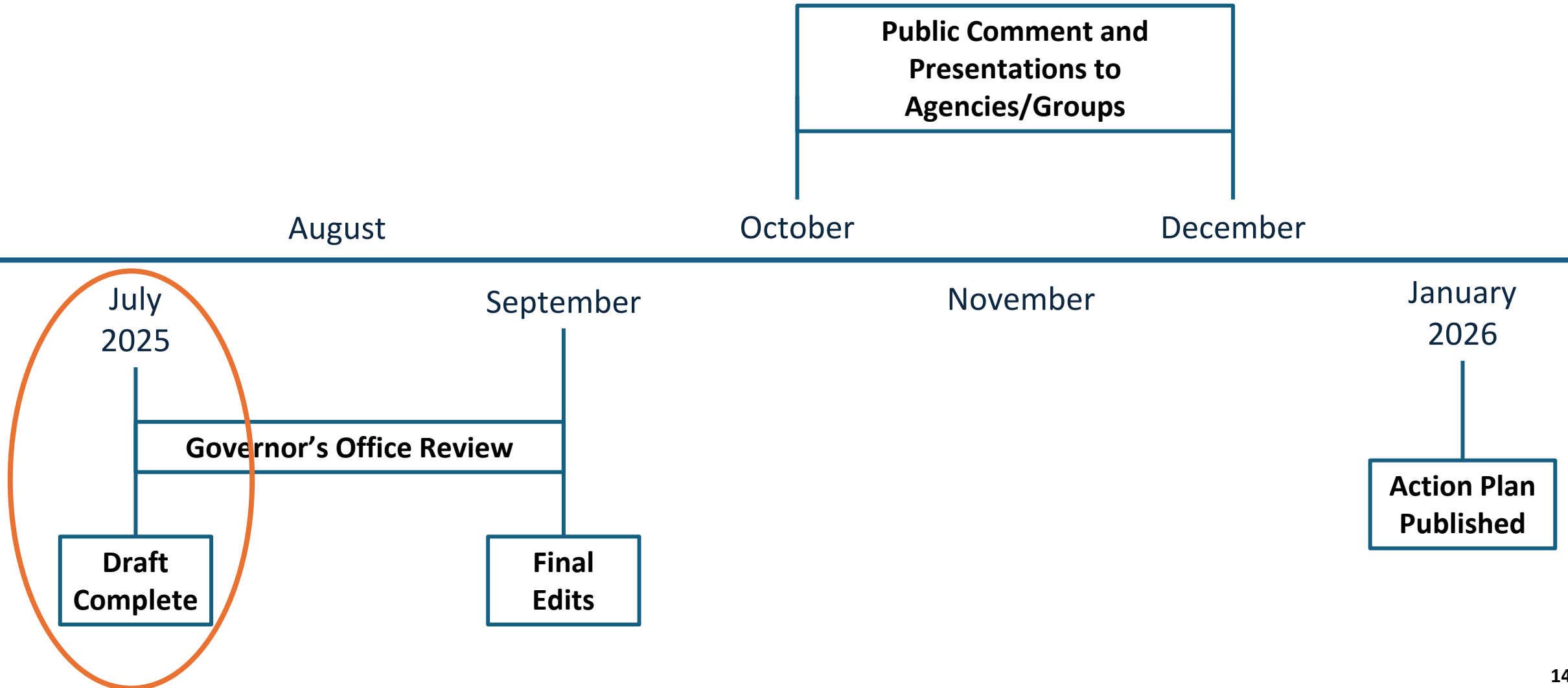
Step 5: Maintain funding for the OAH Council so they can continue coordination on ocean change actions.



Appendix B: Funding Needs for Actions

Action	Step	Estimated Funding Needs
1	1. Allocate state funding for competitive grants and/or match to identify how to achieve ecosystem and economic resilience for Oregon.	\$200K-\$600K per project
1	2. Allocate state funds to support data collection, analysis, and modeling to inform strategies and/or actions that promote ecosystems that are resilient to ocean change.	\$50K-\$400K per project
1	3. Agencies will develop and implement best management practices (BMPs) for resilience to ocean change, based on best available ecosystem, economic, and policy research (as determined in Step 1) relevant to Oregon's estuaries and nearshore waters.	TBD
2	1. Allocate state funds to new and existing oceanographic research sites to monitor Oregon's changing ocean.	\$50K-\$500K biennial costs
2	2. Allocate state funds to invest in monitoring biological and ecological responses to changing ocean conditions.	\$25K-\$100K onetime or biennial costs
2	3. Allocate state funds to a socio-economic assessment to determine Oregon's vulnerabilities to ocean change.	TBD

Action Plan Approval Timeline



Comments or Questions

Contact the OAH Council

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