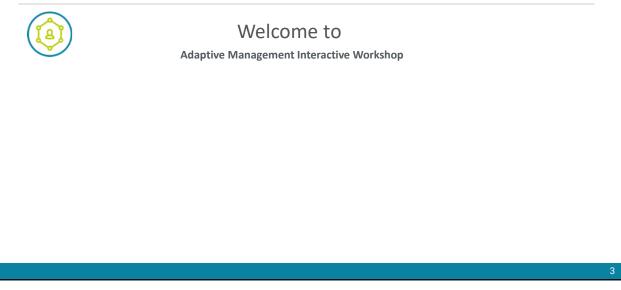
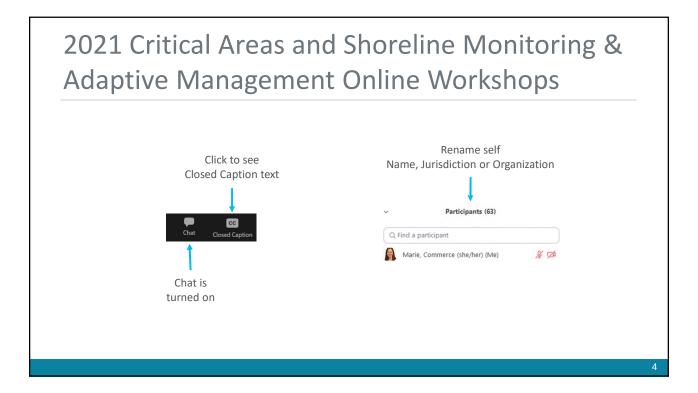


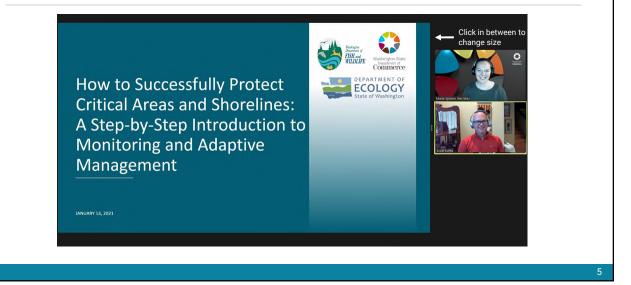


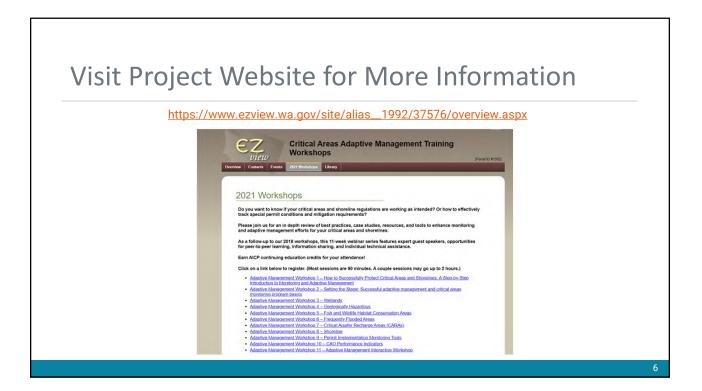
2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops





2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops





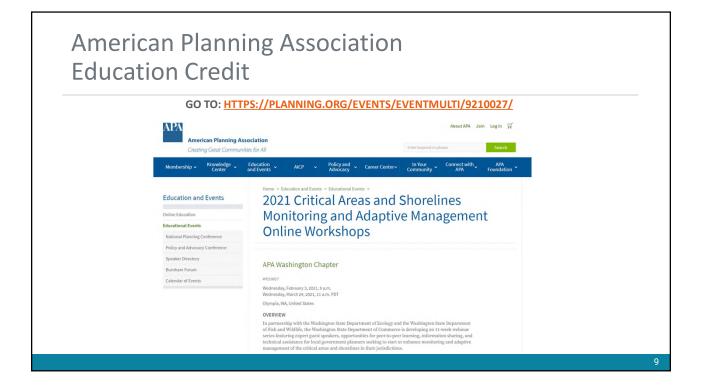
2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops

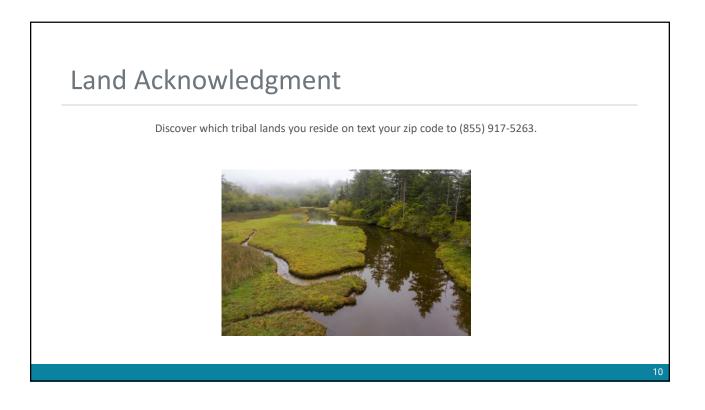


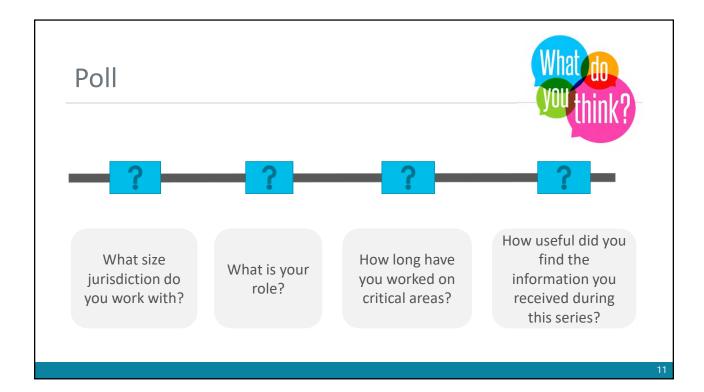
This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-01J2230116-05251 through the Washington Department of Fish and Wildlife.

The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the Washington Department of Fish and Wildlife, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.











Dave Andersen serves as the Managing Director for the Washington Department of Commerce, Growth Management Services office. Dave has been with the Department of Commerce since 2001, starting as the agency's transportation policy specialist.

Dave is an adjunct lecturer in the Urban and Regional Planning program at Eastern Washington University. Dave is also past president of the Inland Empire section of the American Planning Association.

Dave managed the review and update of the agency's administrative rules implementing the Growth Management Act. In 2010, Dave was awarded the Washington APA's Meyer Wolfe Award for Professional Achievement for his work on the rule update. Dave was also the principle author in the 2012 update to the department's transportation element guidebook.

Prior to joining Commerce, he spent seven years as a transportation planner at Pierce Transit. Dave holds a Masters in Urban and Regional Planning from the University of Iowa, and a Bachelor's Degree in Planning from Augustana College.

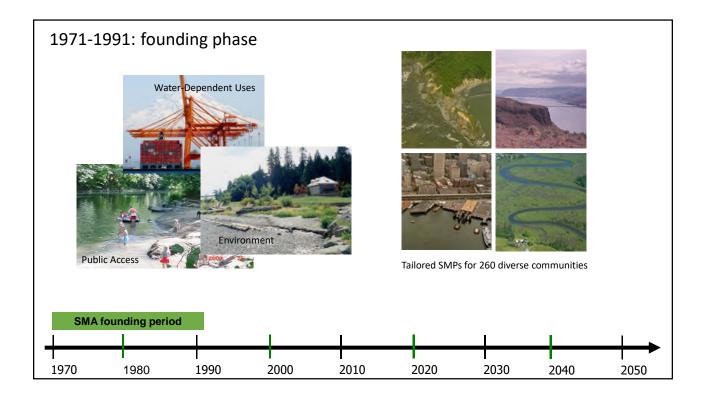


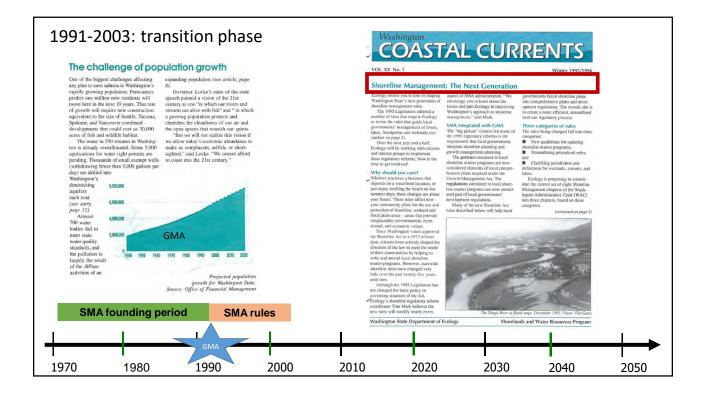
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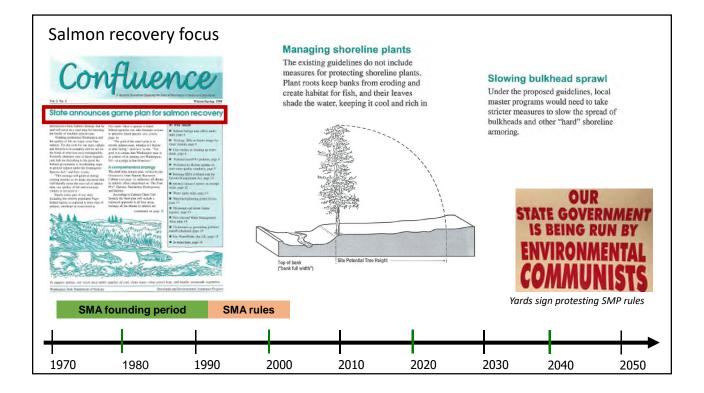
Tim Gates has three decades experience in shoreline and growth management planning. He is currently Policy and Operations Manager for the Washington Department of Ecology Shorelands & Environmental Assistance Program. Prior to his current position he worked for nine years as land use planner for the Washington Department of Commerce Growth Management Services program, where he provided technical and financial assistance to local governments. He worked for Ecology's shoreline program from 1989 through 2005 developing state rules, preparing guidance and providing technical and financial assistance.

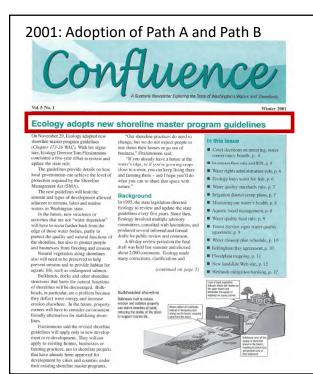












Shoreline rule adopted (communed from page 1)

refinements in response to those com-ments. Ecology mailed a Responsiveness erycos who comm Summary to the deaft rule Two-path approach

Two-petits approach A key feature of the final gaidelines is a two-path approach that gives enter and implement their sheetline master programs. The default "Path A" allows local governments the Rehling and exectivity in how they meet the standards of the SMA, which the optional "Path B" contains specific measures for proteeting shoreline functions.

n. National Marine Fisheries Service U.S. Fish & Wildlife Service have hat any local master program that s with Path B will automatically ge frion under the Endangered Act (PSA). lies wiss ception under tra-los Act (ESA). Chus will shold cities and co whiles and citizen law whiles and citizen law

as penatuses and citizen lawsuits if an A-listed fish is harmed or its habitar urbed as the result of an activity and by the exception. be heart of both paths of the p

va requirement that local officials fy the ecological functions perform orelines and protect them based on the local environment needs. ath A allows local governments to dy with this requirement through a ty of means. For example, a local minerin night assilyze a stream to

PFC was ibe the le

need to survive in marine waters may be different than what they need to spawn in streams. Path II explains IP C and de-verbes an analyzical process that local governments may use to ransor that IPC is onnotatined where it exits, and is reasoned over time where it has been degraded. The what B approach includes definit vegetative buffer width *tee*

Shoreline vegetation Both paths in the role require

Both paths in the rade require local governments to protect shoreline plants that keep heals them croding, shade the water, and create habitot for fish. Path A allows local governments to me a variety of means, such as clearing and public standards or setback-and buffer stan-dards, to protect vagestation standards or settoner wand-bourge stand-dards, to protect vegetation. The Path B approach sets a default buffer of one site-potential tree height maximum beight that a tree potentially could grow at a particular site) along fiv where trees naturally grow. The default buffer is 60 feet along rivers where tree don't grow, such as in and areas of the state.

te. The rule also sets a buffer of one-half e-potential true height, or 100 feet

Channel Migration Zones

Both paths of the new rule add new requirements for local governments manage river "channel migration zo or CMZs. The CMZ is the area where river migration measure average the second

naturally meander over time. They are not only hazardous areas to build, bu fish and wildlife also depend on the habitat created when a river is y rules, the gu CMZ as the a

on the active ch

by dikes. The rule prohibits new tural flood control measure restricts most new develop

in studies that doew ution that vegetation

The bi noving noxious v is is also allowed

Bulkhead provisions Under the new guidelines, local master programs need to establish stricter measures to slow the sprend of hulkhe and other "bard" shoreline armoring. a found that the rade fish and wildlife

the of the rule res applicants demonstrate a need for new bulkleads and other shoreline armoring before getting approval. The rule also

of the CMZ that lies



53 parties cross- appealed to Superior Court

1000 Friends of Washington										
Adams County										
Associated General Contractors of Washington										
Association of Washington Business										
Basta Marine, Inc.										
Benella Caminita										
Black Hills Audubon Society										
Building Industry Association of Washington	Friends of Grays Harbor									
Chris Brown	Friends of the San Juans									
Chelan County Citizens for Sensible Development Citizens Growth Management Coalition	Grant County Hood Canal Environmental Council Independent Business Association of Washington									
									City of Hoquiam	
									City of Ocean Shores	Island County
City of South Bend	Jefferson County									
Clark County Natural Resources Council	Kettle Range Conservation Group									
Columbia County	Kittitas Audubon Society									
Doug Camenzind	League of Women Voters of Washington									
Fred Ellis	Mason County									
Ferry County	National Association of Industrial and Office Properties									
Franklin County	National Audubon Society									
	National Federation of Independent Business									
	Northwest Marine Trade Association									
	Pacific County									
	Pend Oreille County									
	People for Puget Sound									

Rose Ranch Save a Valuable Environment Skagit County State of Washington, Department of Ecology Stevens County Thurston County United Property Owners of Washington Wahkiakum County Washington aggregates and Concrete Association Washington Association of Realtors Washington Cattleman's Association Washington Conservation Voters - Island County Chapter Washington Contract Loggers Association Washington Environmental Council Washington Public Interest Research Group Washington State Farm Bureau Washington State Grange Whitman County Wildlife Forever of Grays Harbor

2002

Gov. Gary Locke Announces Important Agreement on Shoreline Guidelines

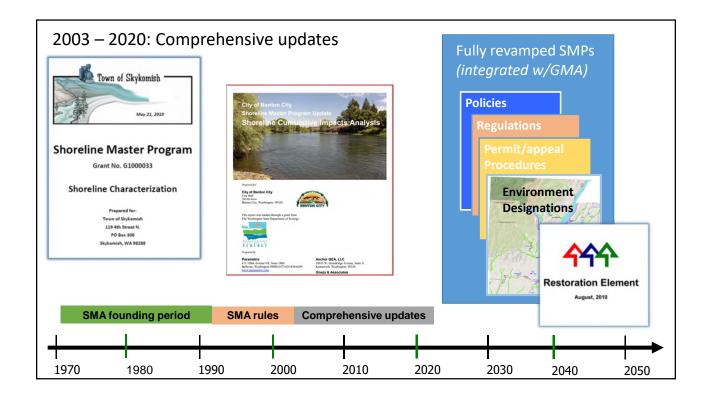
OLYMPIA – Dec. 20, 2002 – Gov. Gary Locke today announced that the state has reached a long-awaited agreement on Washington's shoreline management guidelines. Locke was joined at a news conference in Olympia by representatives of business, environmental groups and local government who participated in the negotiation.

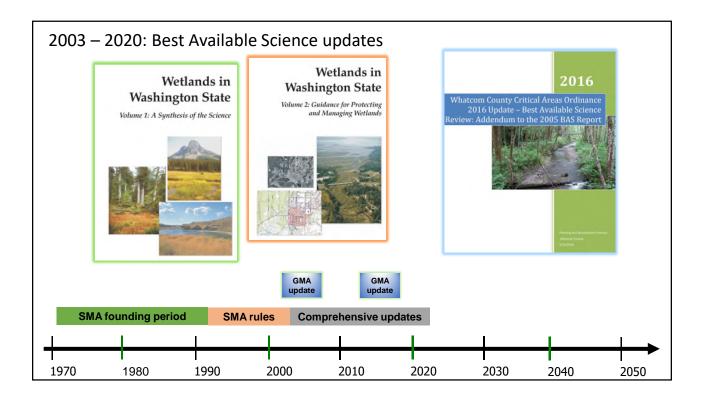
"This important agreement will help us move forward to protect our shorelines," Locke said. "By bringing businesses and environmentalists together, we have proven that we can achieve consensus on even the most controversial issues."

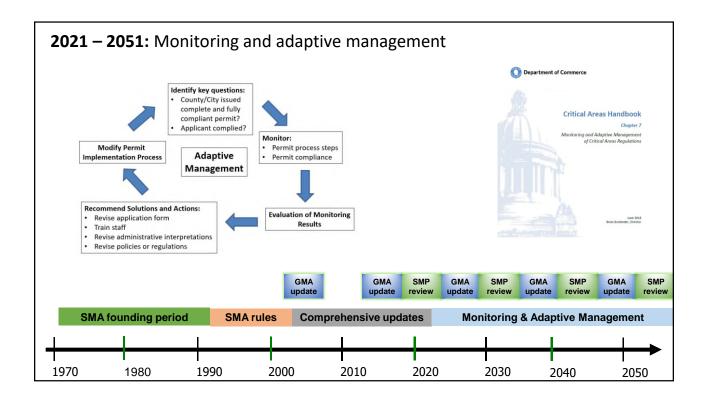
The state's Shoreline Management Act directs the Department of Ecology to adopt guidelines for how to satisfy the protection standards contained in the act, and requires cities and counties to adopt local shoreline ordinances that comply with the state guidelines.

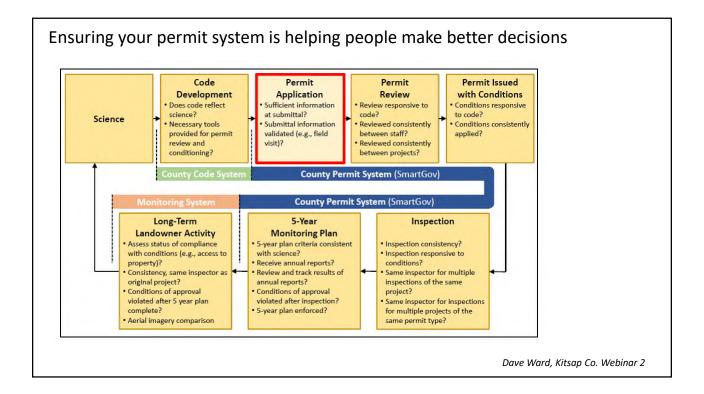
Two years ago, the state Department of Ecology updated the state's shoreline management guidelines for the first time since 1972. However, a coalition of business groups and local governments challenged the guidelines, and the Shoreline Hearings Board subsequently invalidated them. Ecology Director Tom Fitzsimmons asked Locke and Attorney General Christine <u>Gregoire</u> to sponsor mediation talks aimed at reaching a legal settlement.

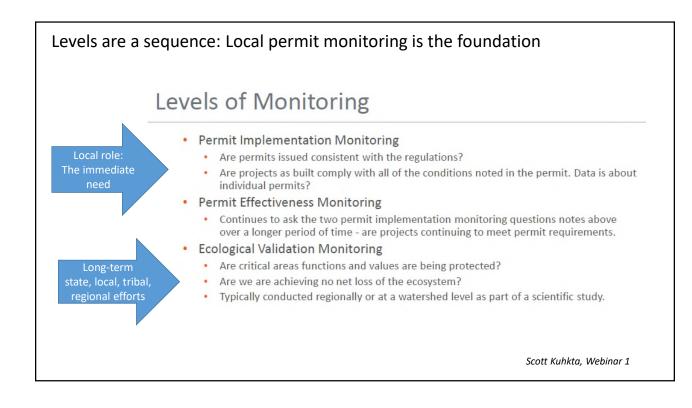
"The successful mediation avoided further litigation that would have been costly and time consuming for all parties," <u>Gregoire</u> said. "This is an example of how business, environmentalists and local governments can work together to achieve their mutual goals."











Clear need: funds to help local permit implementation monitoring



SMA grant program

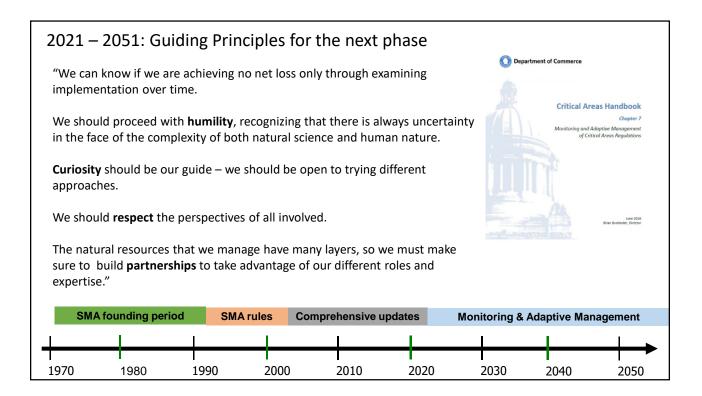
Sep 2021-June 2023: \$800,000 (pilot) July 2023-June 2025: \$3 Million

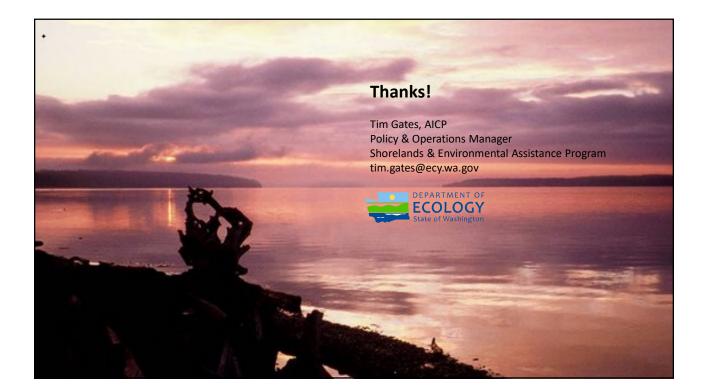
Priorities:

Implementation monitoring capacity
 Planning for climate change



National Estuary Program (NEP) funds have been foundational for both state and local efforts to date





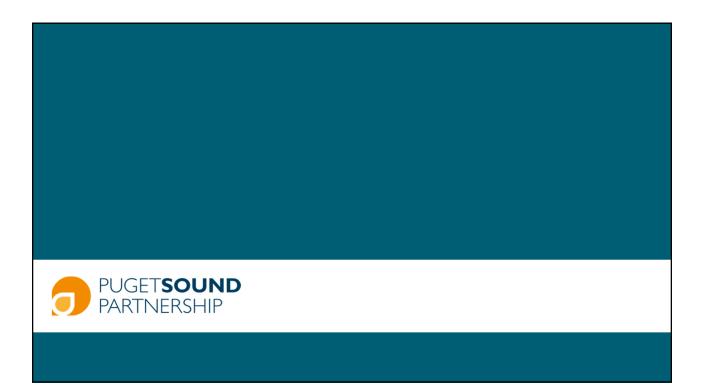


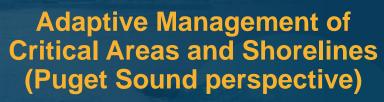
Margen Carlson is the Habitat Program Director of the Department of Fish and Wildlife, providing vision and direction for staff and operations in Olympia and throughout Washington. Margen has worked for the Department for nearly 18 years and has had the opportunity to work on a variety of conservation issues including salmon and recovery, maintaining habitat connectivity in developed areas, and marine nearshore protection and restoration in Puget Sound. She is passionate about collaborative and creative conservation approaches, and helping her teams and partners to be successful. Margen explores the outdoors with her husband and young daughter in Olympia, WA, and beyond.





Don Gourlie loves being on, in, and around the water, particularly salt water. He has a marine science degree and a law degree and his past work has included environmental education, helping businesses reduce their use of toxic substances, working with pacific island nations to strengthen their environmental laws, and more. At the Puget Sound Partnership, he helps develop and write the Action Agenda for Puget Sound and analyze laws for their effect on Puget Sound recovery efforts.







March 24, 2021

Don Gourlie

Outline

- Intro to Puget Sound Partnership
- Puget Sound recovery perspective on critical areas and shorelines
- Resources to assist with AM of critical areas and shorelines
- Legislative happenings on critical areas and shorelines



Puget Sound Partnership

The Puget Sound Partnership is the state agency tasked with coordinating the region's collective effort to restore and protect Puget Sound

PUGET**SOUND** PARTNERSHIP



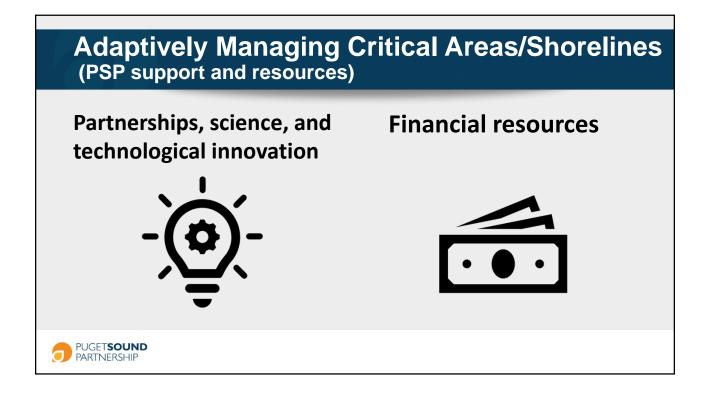
Puget Sound Goals and Vital Signs

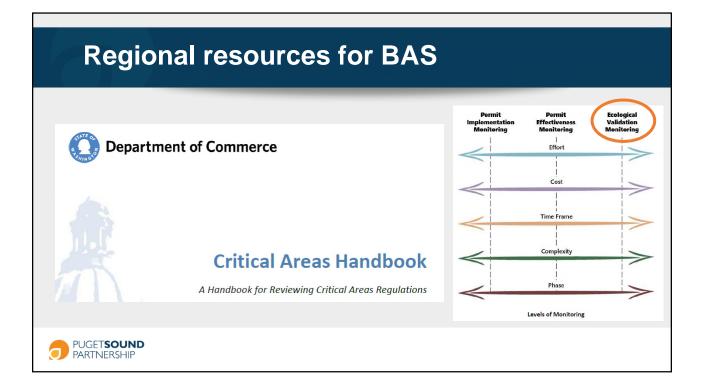


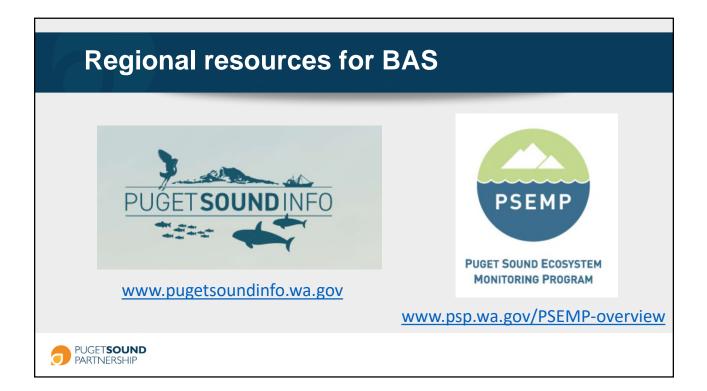
Managing Critical Areas/Shorelines (PSP perspective)

- · Focus development away from ecologically important areas
- Prevent conversion of working lands
- Protect frequently flooded areas from development and restore floodplains
- Protect nearshore areas and shorelines, especially sensitive areas like eelgrass beds and bluffbacked beaches
- Protect stream health, by protecting riparian areas and using low impact development
- Help working farms contribute to recovery through the Voluntary Stewardship Program
- Prevent new shoreline armoring, remove existing armoring, promote soft shore alternatives
- Designate protection and recovery areas as fish and wildlife habitat critical areas, and establish policies to protect them

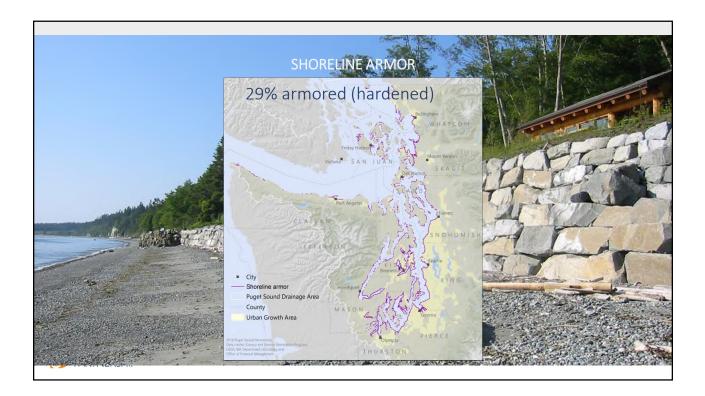
PUGET**SOUND** PARTNERSHIP

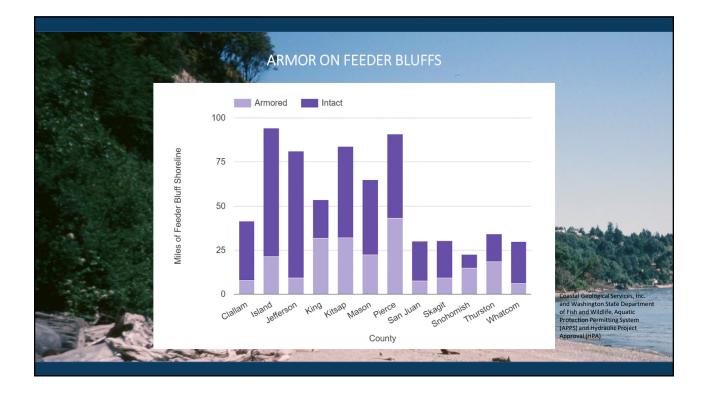










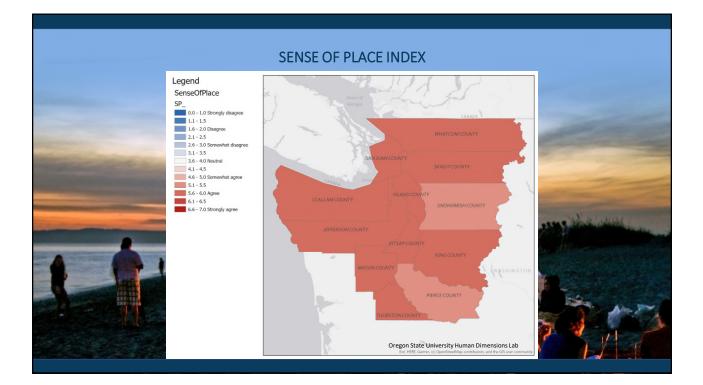




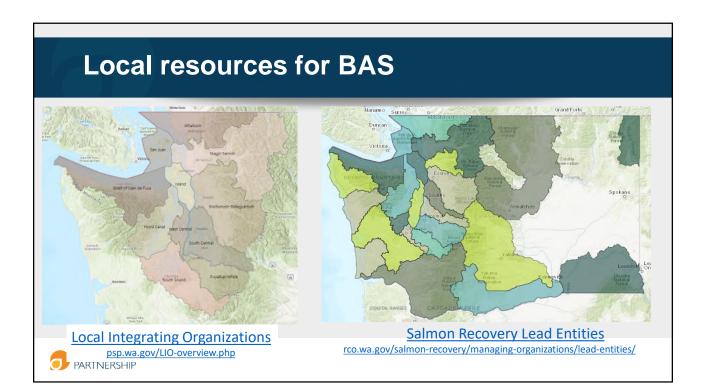
SENSE OF PLACE

Over 70 percent of Puget Sound residents "agree" or "strongly agree" that Puget Sound plays role in their identity, pride, and attachment.





Inventory of fund sources and relevant programs DATA CENTER Welcome to the Puget Sound Info Data Center, the main repository for restoration, protection and recovery data across Puget Sound Info programs. .lıl ACTIVITIES **PROGRESS MEASURES** ORGANIZATIONS \$ 뫎 Ê ONGOING PROGRAMS WEB SERVICES FUNDS PUGET SOUND INFO ----PUGETSOUND PARTNERSHIP www.pugetsoundinfo.wa.gov



Support at all levels



Example Tools for AM of Critical Area/Shoreline

DFW Priority Habitat and Species volume on riparian – Riparian Ecosystems: Science and Management Implications (2020)

Ecology's Puget Sound Watershed Characterization - Watershed Assessment - Map

Washington Coastal Hazards Resilience Network sea level rise projections - SLR Visualization Tools

Analysis of growth relative to UGAs - https://pspwa.box.com/s/x16e54snehe90we4uuct6b342x9ve1d5

Puget Sound Mapping Project - Puget Sound Mapping Project

Shoreline monitoring toolbox - Shoreline Monitoring Toolbox

High resolution change detection - High Resolution Change Detection (arcgis.com)

Department of Commerce Critical Areas Guidebook - Growth Management Guides and Resources

Shorefriendly program resources for landowners – Protect Your Property and Puget Sound - Shore Friendly

Nearshore Summit hosted by PSEMP and ESRP

Climate Change		ur.	Heavier Rain Events	ak Flows	Lower Summer Flows	Earlier Streamflow Timing	Altered Sediment Dynamics	Streams	Rise	ırming	Ocean Acidification
 Prevent climate change Prevent conversion of undeveloped land and working lands. Focus new growth in existing urban growth areas or other previously developed areas. 		Warmer Air	Heavier R	Higher Peak Flows	Lower Sur	Earlier Str	Altered Se	Warming Streams	Sea Level Rise	Ocean Warming	Ocean Aci
	Cultural Wellbeing	1	~	1	~	~	~	~	~	1	~
	Estuaries			1	~	✓	~	1	~	1	
	Marine Water Quality									1	~
 Adapt to climate change Consider how climate change will affect critical areas and shorelines 	Shellfish Beds		1						~	1	~
	Floodplains		~	1	1		1	~	~		
	Land Dev. and Cover	1	~	1	~				~		
Climate science literature review for Puget Sound https://pspwa.box.com/s/m065vv0z31qgdbm920 v55a9xib2v2rgg	Eelgrass						~		~	1	~
	Chinook Salmon		~	1	~	~	1	~		1	
	Shoreline Armoring						~		~		
	Freshwater Quality		~	1	1		~	~			
PUGETSOUND	Toxics in Fish		1	1	~						

Summer Streamflows

1

2021 Session – Critical Areas/Shorelines (status as of 3/19)

<u>HB 1099</u> (Duerr) - Improving the state's climate response through updates to the state's comprehensive planning framework

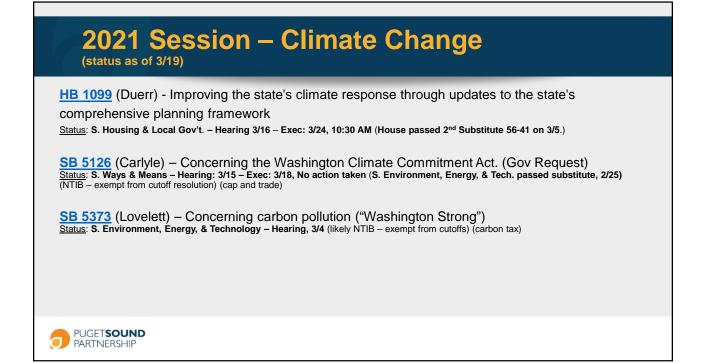
Status: S. Housing & Local Gov't. - Hearing 3/16 - Exec: 3/24, 10:30 AM (House passed 2nd Substitute 56-41 on 3/5.)

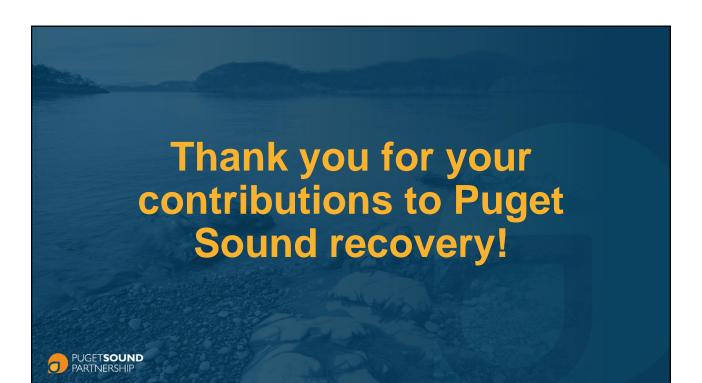
HB 1117 (Lekanoff) – Promoting salmon recovery through revisions to the state's comprehensive planning framework. <u>Status:</u> S. Housing & Local Gov't. – Hearing 3/16, 8:00 AM – Exec: 3/24, 10:30 AM (House passed Engrossed 2nd Substitute 58-38 on 3/2)

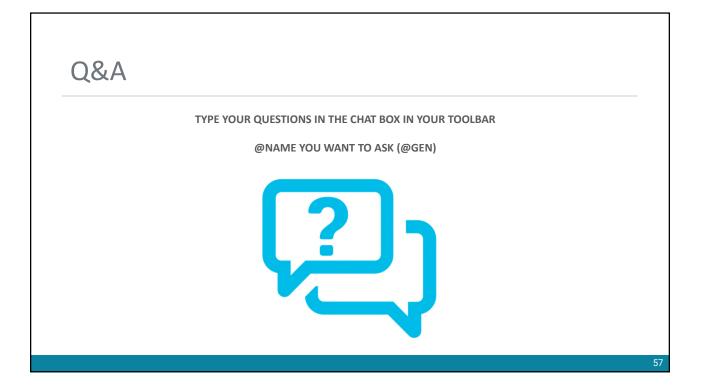
HB 1241 (Duerr) - Planning under the growth management act. <u>Status</u>: S. Housing & Local Gov't. – Hearing 3/16 – Exec: 3/24, 10:30 AM (House passed engrossed substitute 56-41 on 3/8.)

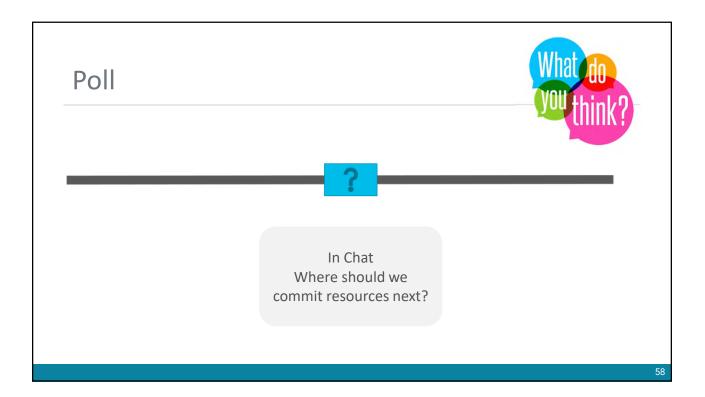
<u>SB 5273</u> (Salomon) - Concerning the replacement of shoreline armoring. <u>Status:</u> H. Rules R (H. Rural Dev., Ag, & NR passed with amendments: 3/16 (Senate passed substitute 28-21 on 2/18)

PARTNERSHIP







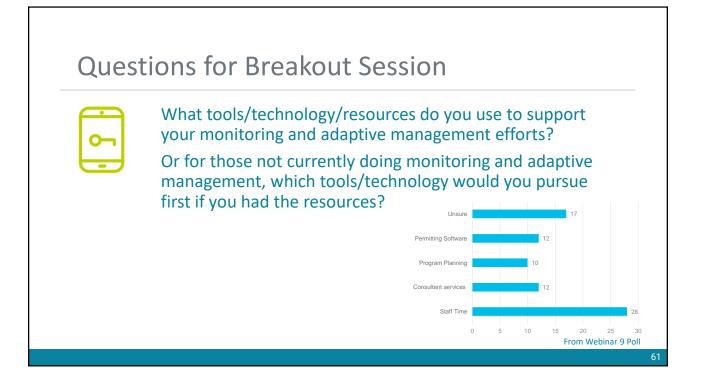


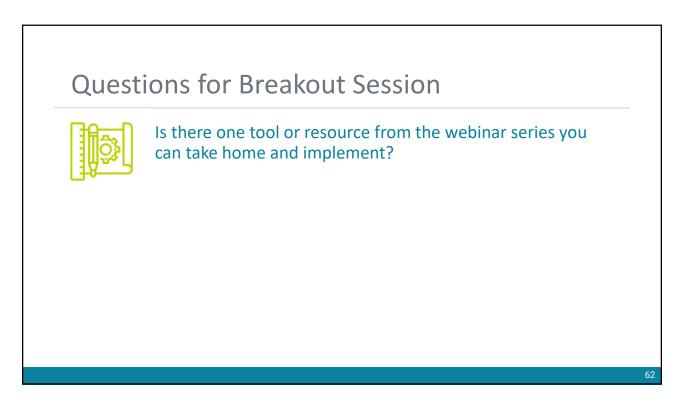
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Questions for Breakout Session



What do you wish you were doing or would you like to do in your jurisdiction for adaptive management?





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