



Department of Commerce



DEPARTMENT OF  
**ECOLOGY**  
State of Washington



Washington  
Department of  
**FISH and  
WILDLIFE**

# Critical Areas Monitoring and Adaptive Management

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Mount Vernon Workshop

# Workshop Part I Goals

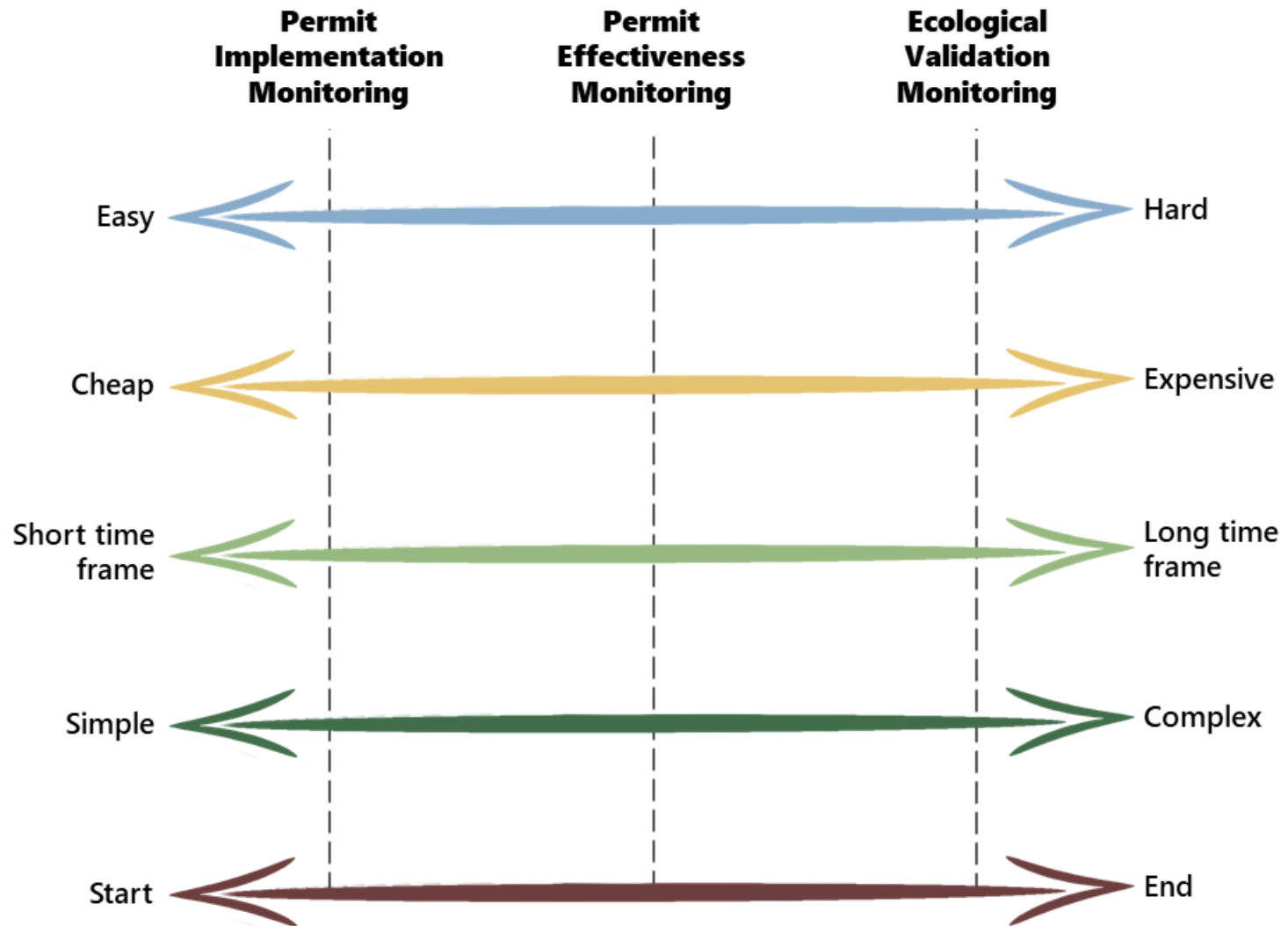


- Introduce the concept of critical areas permit monitoring and adaptive management
- Explain/explore why monitoring might be beneficial
- Share tools for monitoring critical areas permit implementation and effectiveness
- Discuss challenges and identify resources

# Why Monitor? Legal basis?

- No statutory requirement to monitor under GMA or SMA.
- Best Available Science WAC 365-195:
  - Encourages monitoring and evaluation of critical areas protection efforts (905(6))
  - In absence of valid scientific information, recommends a “precautionary or no risk” approach, or an interim adaptive management approach (920)
- Monitoring has been required in some hearings board cases under certain circumstances:
  - Jefferson County choosing less stringent protection standards against seawater intrusion into potable water supplies(2002)
  - Skagit County choosing to take a less-than-precautionary approach for protection (2003)
  - San Juan County limitations on modeling and data regarding impact of increased UGA densities on seawater intrusion into critical aquifer recharge area (2006)

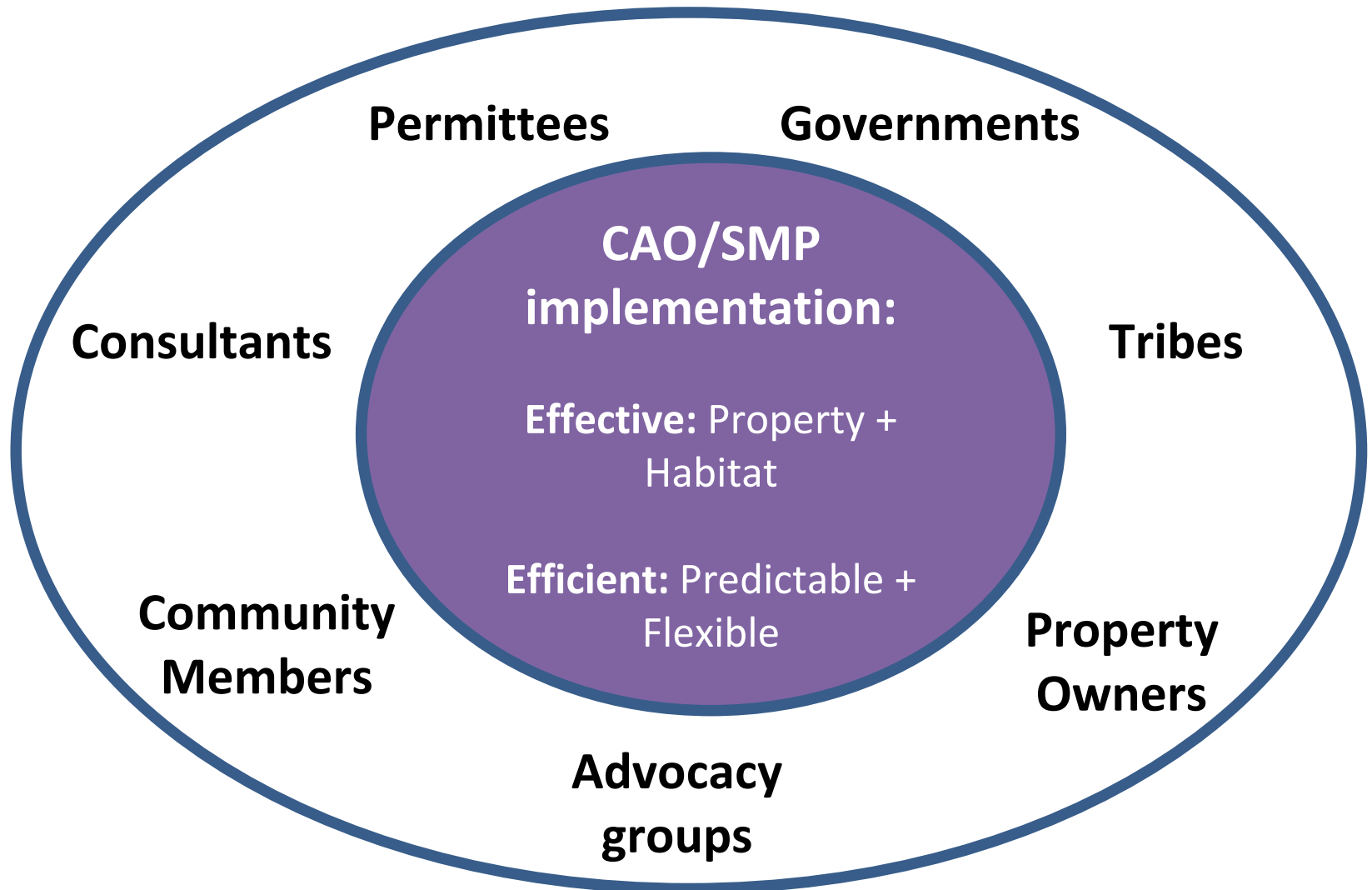
# Levels of Monitoring – A Continuum



# Critical Areas Monitoring and Adaptive Management – What we are recommending

What We ARE Talkin' About	What We Are NOT Talkin' About
<p>Monitoring or tracking of local government permit implementation and/or applicant compliance with mitigation requirements.</p> <p>And adaptively managing with revisions to the permit process based on an evaluation of the results of monitoring permit implementation or mitigation.</p>	<p>Analyzing whether critical areas permits are having their intended ecological outcomes – protecting function and values of critical areas.</p>

# Why Monitor? Addressing Common Interests





# Are we achieving “no net loss?”

We can only know if we are achieving No Net Loss through implementation over time

Guiding principles as we build “feedback loops:”

- Humility
- Curiosity
- Respect
- Partnerships



*Prepared for*

**City of Benton City**  
City Hall  
708 9th Street  
Benton City, Washington 99320



**SMPs:** Cumulative impact analysis projected forward and determined regulations would achieve “No Net Loss.”

# Why Monitor Critical Areas Regulations?

## Group Exercise

What are the potential benefits of monitoring critical areas regulations in your jurisdiction?



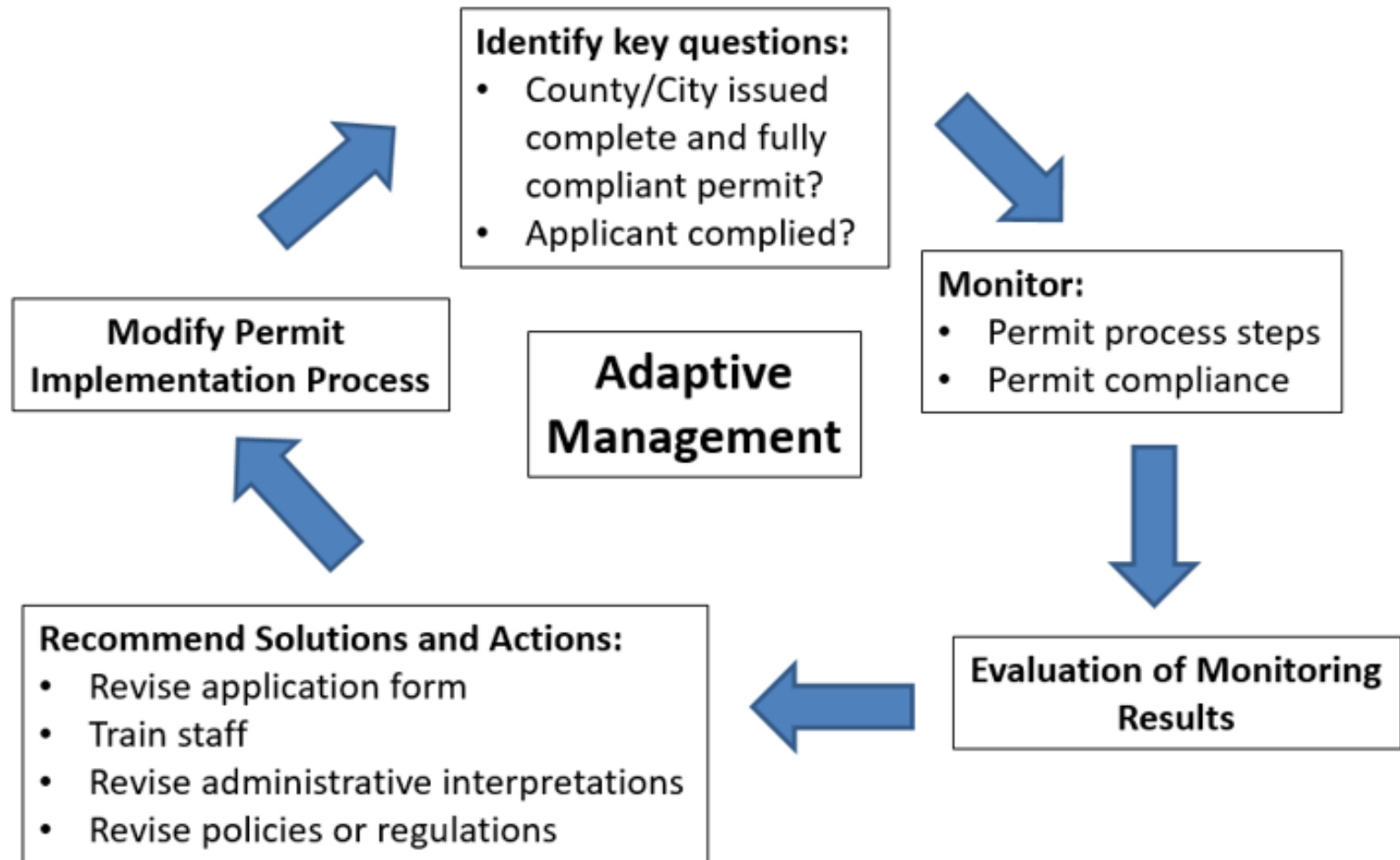


# Steps for Monitoring and Adaptive Management



1. Articulate reasons for Monitoring
2. Identify Key Study Questions/Objectives
3. Design Monitoring Program
4. Determine Monitoring Time Frame
5. Evaluate Results and Make Recommendations

# Permit Monitoring and Adaptive Management



# Wetland Buffer Tracking Resource

Method for tracking permit implementation and compliance in wetland buffers.



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**Characterizing Wetland Buffers  
in Washington State**

<https://fortress.wa.gov/ecy/publications/SummaryPages/1706008.html>

# Kirkland Example

Monitoring does not have to be complicated. Simply choosing to monitor permit implementation can provide key information for permit process improvement.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	PLEASE READ TUTORIAL TAB FIRST															
2																
3																
4	ADDRESS	PERMIT # OR DATE	APPLICANT NAME	PLANNER	NATIVE VEGETATION (SQ FT) WITHIN SHORELINE SETBACK										MITIGATION FOR TREE REMOVAL	MITIGATION FOR 83,550 S.B.S (10%) SQ FT
5	XXXX Lake Washington Blvd	BLD10-00500	DOE	CPG	# OF TREES REMOVED	# TREES RETAINED	# OF TREES PLANTED	SHRUBS	GROUND COVER	LAWN	REMOVAL OF LAWN	REMOVAL OF ORNAMENTAL	REMOVAL OF INVASIVE	AQUATIC VEGETATION		
6	XXXX Lake Ave West	BLD10-00314	SMITH	CPG	0		0	0	0	0	0	0	0	0		
7	XXXX Lake Ave West	BLD11-00181	JONES	CPG		1	3	500	300	809	720	280	0	0	65	
8	XXXXXX Holmes Point Road	BLD11-00431	JOHNSON	CPG	0		7	600	400	2280	0	0	0	0		
9	XXXXXX Champagne Pt Rd SE	BLD11-00534	TAYLOR	CPG	0		3	365	170	950	535	0	0	0		
10	XXXX NE 154th St	BLD11-00351	JACKSON	CPG												
11	XXXX SW 166th	BLD11-00350	JAMES	CPG												
12	XXXXXX Champagne Pt Rd NW	MIS11-00006	DAWES	CPG	0		0	0	0	0	0	0	0	0		
13	XXXX Lake Ave West	SHR11-00004	BAILEY	CPG												
14	XXXX Lake Ave West	BLD11-00109	BRONSON	CPG	0		0	0	0	0	0	0	0	0		
15	XXXXXX Holmes Point Road	1/10/2012	GLASS	CPG												
16	XXXX Lake Ave West	BLD11-00462	SIMS	STL		6	6	90	632	400	990	0	0	0	Y	N
17	XXXX Rose Point Lane	BLD11-00689	RIVERA	CPG												
18	Marina Park Pier	exemption	City	TJS												
19		0	0	0	0											
20		0	0	0	0											
21		0	0	0	0											
22		0	0	0	0											
23		0	0	0	0											
24		0	0	0	0											
25		0	0	0	0											
26		0	0	0	0											
27		0	0	0	0											
28		0	0	0	0											
29		0	0	0	0											
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36		0	0	0	0											
37		0	0	0	0											
38		0	0	0	0											
39		0	0	0	0											
40		0	0	0	0											
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Questions?

[Draft Monitoring and  
Adaptive Management  
Chapter](#)

Link to Workshop  
Survey

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