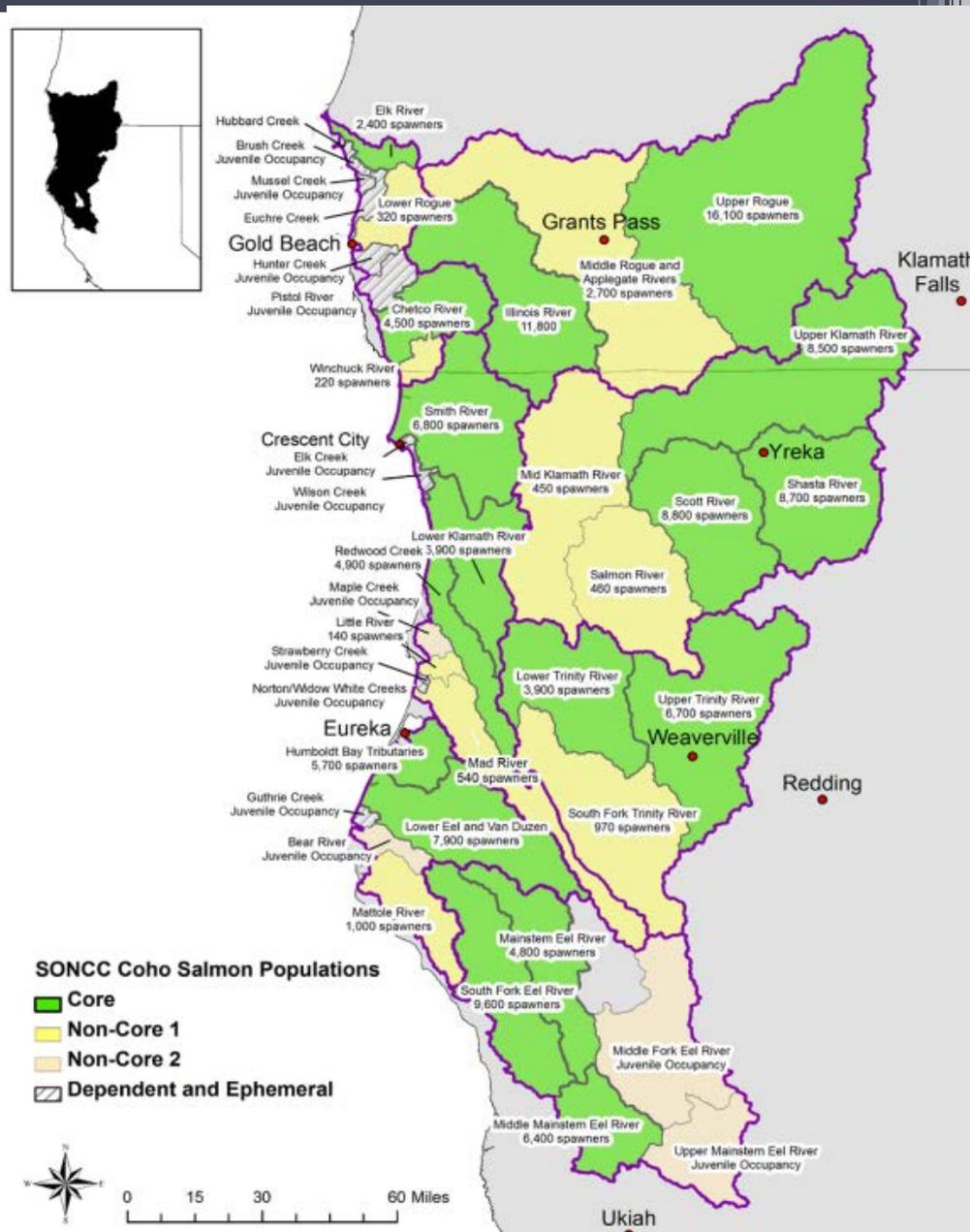
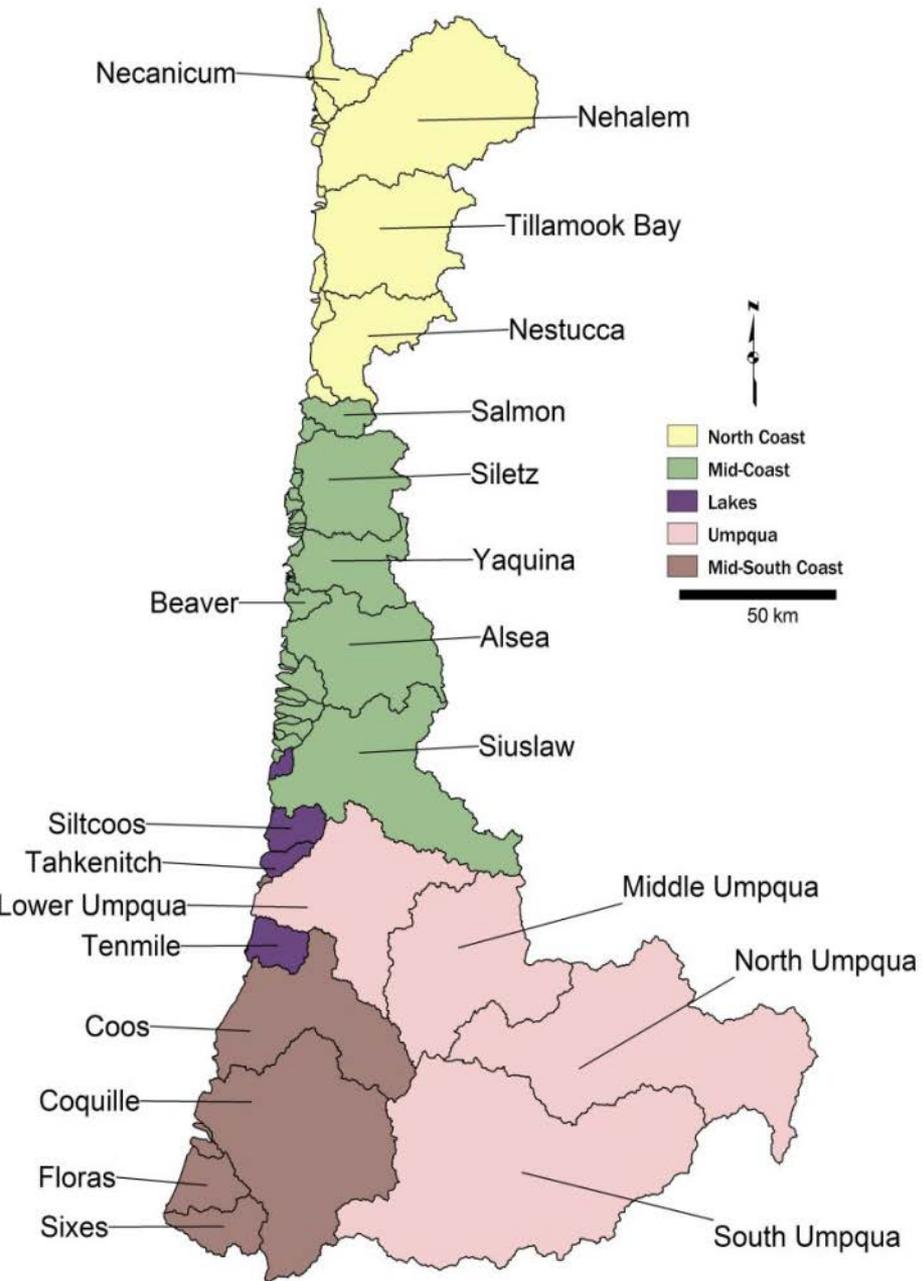


Oregon Coast Coho Business Plan



Oregon Watershed Enhancement Board
July 27, 2016



Challenges We Hope to Address

Managers and Funders:

- Cumulative impacts of local work difficult to roll-up.
- Difficult to show returns on investment.
- Unable to describe how much is enough.



Challenges We Hope to Address

Local Project Implementers

- No strategic framework to filter opportunities.
- Unable to describe long term priorities to landowners.
- Single-project approach is inefficient and probably insufficient.



Shared Goals

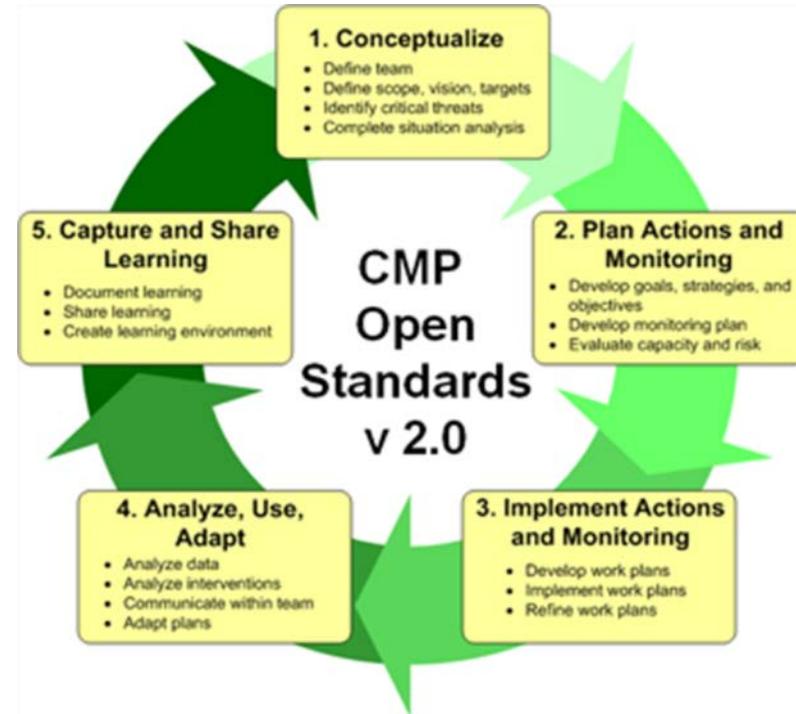


1. Develop a common language for recovery.
2. Facilitate local focus, and provide clarity to landowners.
3. Describe how much restoration is needed, and clarify anticipated returns on investment.
4. Accelerate the pace of restoration, while supporting local social and economic priorities.
5. Communicate the opportunity for recovery.

Our Approach

OWEB funds:

1. Create a common framework
2. Apply to three pilot SAPs
3. Roll SAPs into the “Coast Coho Business Plan”



Mainstem River Attributes & Indicators

Indicators

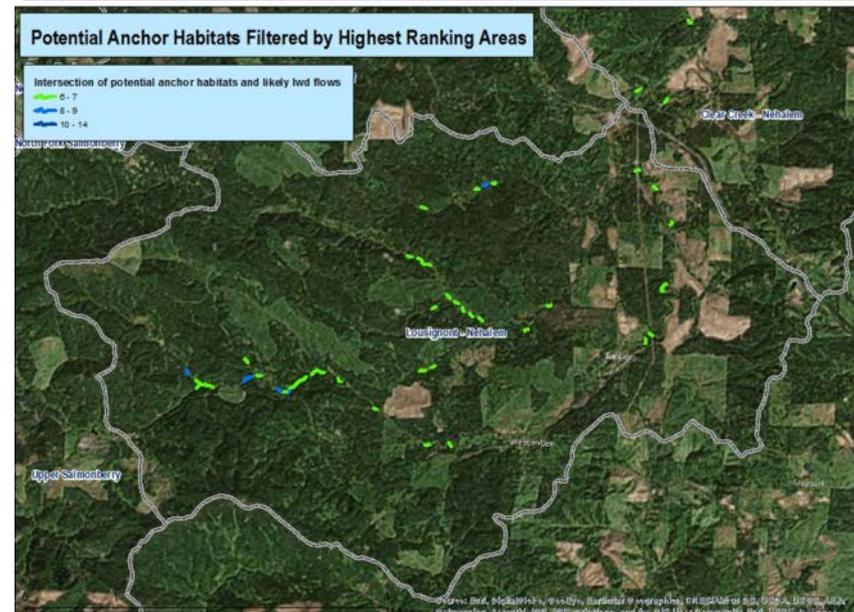
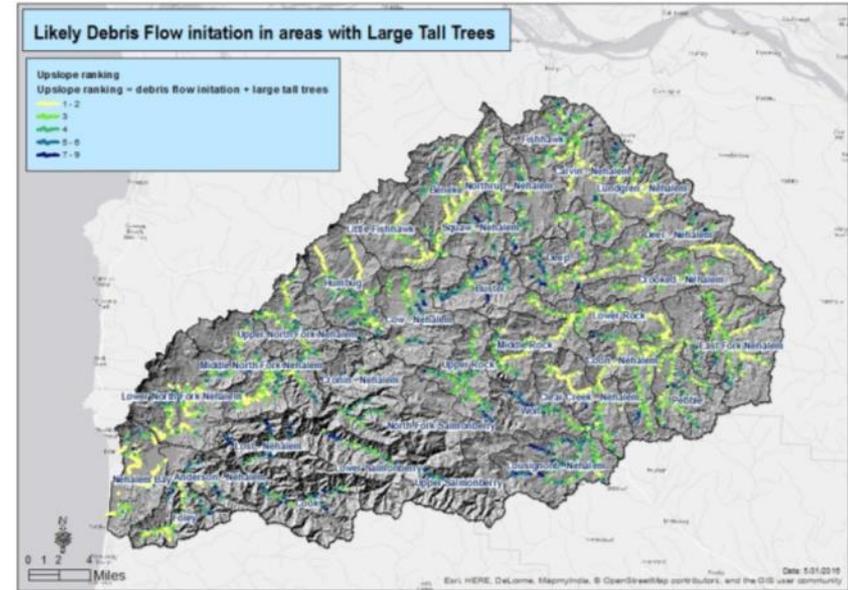
Bold = sufficient data exists to evaluate the indicator with a reasonable/replicable amount of analysis.

Non-bold: aspirational indicator

Key Ecological Attributes	Indicators (metrics)
Water Quality	<ul style="list-style-type: none"> • Temperature: % of monitored stream reaches meeting criteria • Average DEQ ambient site condition • Turbidity • Disease/pathogens
Flows (high and low)	<ul style="list-style-type: none"> • Number of days reach not meeting instream flow • Number of days/years flow levels in the mainstem fall • Amount of water allocated • % historic flow • Trends in peak hydrograph (system flashiness)
Habitat Complexity	<ul style="list-style-type: none"> • % pool habitat • Amount and volume of wood • Number of large pieces of wood • Reaches with connected off-channel alcoves, flood plains, and wetlands • Spawning gravel density • Depth to width ratio
Riparian Function	<ul style="list-style-type: none"> • Riparian road density (mi road/mi stream) in one site potential buffer (e.g. 164" in Nehalem) • % forest riparian areas with conifers > 20" dbh in one site potential tree buffer • % 6th fields basins with > 50% riparian area in late seral • % open lands with wooded buffers along streams • % riparian area with diverse, healthy native vegetation appropriate to site potential • Proportion of riparian areas containing invasive species

Pilot exercise: Netmap in the Nehalem

- 1) Anchor habitats
- 2) LWD run-out
- 3) Beaver IP

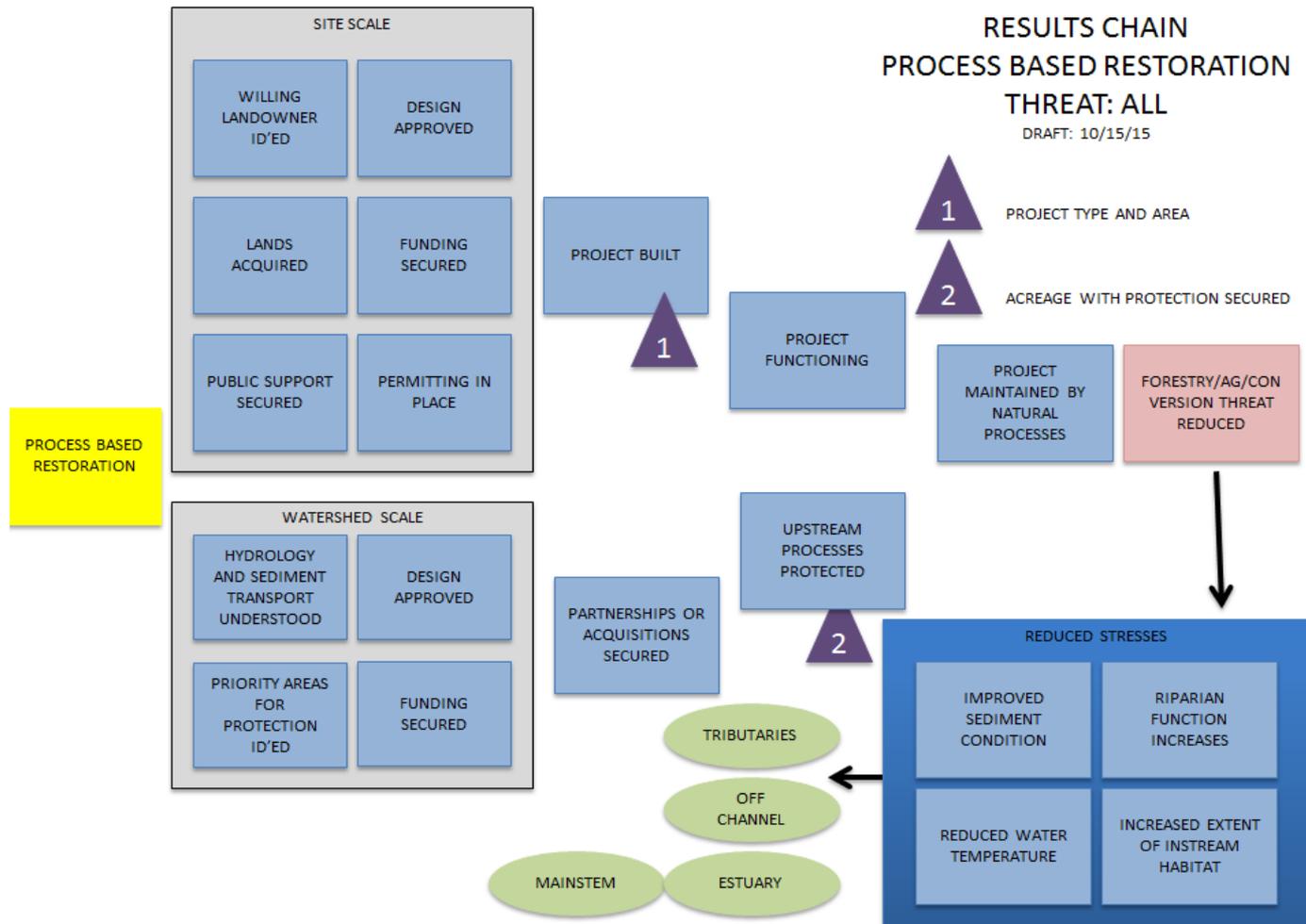


Pilot exercise: Siuslaw Project Scoring Criteria

Importance of the Tributary or Reach						
Criteria / Score ->	0	1	2	3	4 - 6	
• Life Stages: Which stage(s) of the life cycle does the trib support? (spawning, over-wintering, summer rearing, all)	none	spawning	Summer rearing	Over-wintering	More than one stage: score is cumulative	
• Habitat Value: What is the current value of the habitat?	Poor/Low	Medium	High			
• Habitat Potential: Is site high IP? (use percent of trib)	No		Yes			
• Bonus: Does the tributary support a unique life history or habitat type? (e.g. estuary, nomadic)	No		yes			
• Bonus: Is the tributary a cold water source?	No		yes			
<i>Total Score for tributary or reach:</i>						
Biological / Ecological Benefit of the Project						
Criteria / Score ->	0	1	2	3	4	5
• Limiting factors: Which stresses and/or limiting factors does this project address?	None	Addresses a stress but not the limiting factor(s) (e.g. bedload transport)	Addresses Temperature	Prevents loss of complexity (e.g. prevent mass wasting)	Has a high likelihood of increasing complexity or winter habitat	High likelihood of significantly addressing temp and complexity)
• Processes: How many high priority, altered processes does it address? 1) Suspended sediment production, 2) flows (hyporheic and base flows), 3) LWD delivery, 4) channel migration, 5) floodplain interaction (inc estuaries), 6) riparian function, 7) Bedload transport and gravel supply, 8) Longitudinal connectivity <i>Notes: Make these compatible with common framework.</i>	None	1	2	3	4	5
• Longevity: How long will benefit last?	0-4 years	5 – 10 years	10-25 years	> 25 years		
• Assurance of success: has approach worked before? Is location suitable?	No / unknown	No / yes	Yes / yes			
<i>Total Score for the Project:</i>						

Pilot exercise: Elk River Threats Analysis

Open Standards for conceptual models and results chains



Timeline and Priorities

Timeline

- Complete draft SAPs in fall 2016 and finals by close of 2016
- Invite proposals for next round this fall

Priorities for Round 2

- Link with CWP priorities
- Climate change and resilience
- “How much will it take?”

