

## **OVERVIEW**

- Statewide Salmon Recovery Structure
- Role of Regional Recovery Organizations
- Council of Regions
- Focus
- Recovery Approach
- Addressing Key Limiting Factors All H + PI
- Coordination Opportunities
- Moving Recovery Forward & Questions















#### SALMON RECOVERY STRUCTURE

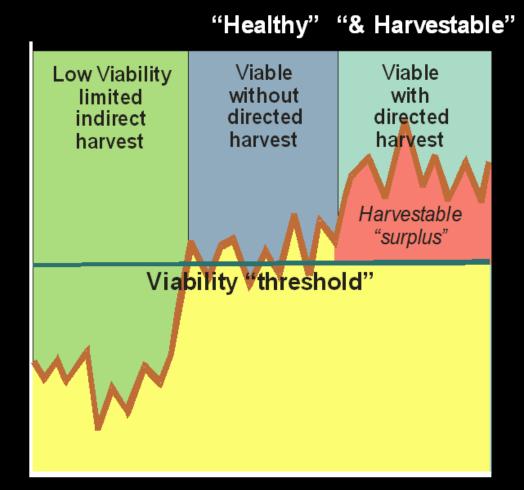


# **ROLE OF REGIONAL RECOVERY ORGANIZATIONS**

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- Serve as the foundation for statewide recovery network
- Facilitate preparation of recovery plans
- Oversee, guide, monitor and adaptively manage implementation
- Track and report progress







# OUR FOCUS

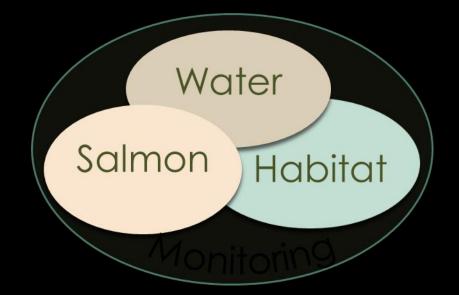
Washington State:

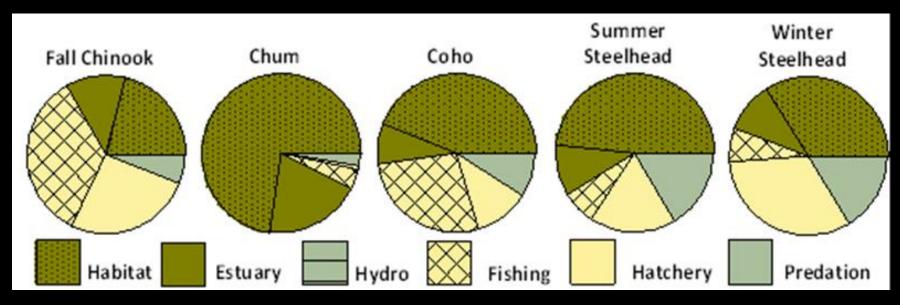
- 178 ESA-listed salmon and steelhead populations
- 38 ESA-listed Bull Trout populations
- 274 non-listed populations



# **OUR APPROACH**

#### To challenge the status quo. <u>Extinction is NOT an Option</u>

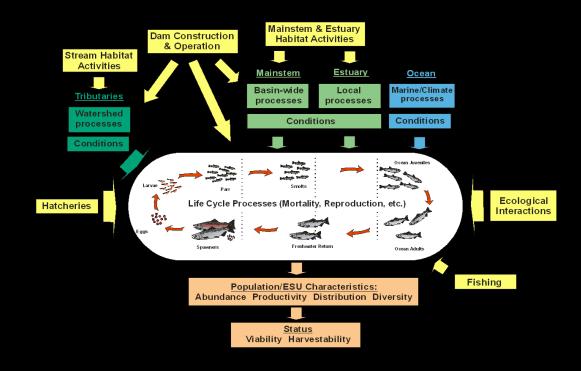




#### Locally Driven

- Diverse and collaborative participation
- Integrated with other planning efforts
- •WDFW is a key partner in plan development, implementation, and adaptive management

### ADDRESSING KEY LIMITING FACTORS – ALL H + PI



- Harvest management
- Hatchery management
- Habitat
  - protection/restoration
- Hydropower engagement
- Predation
- Invasives
- Science: research and monitoring



# **COORDINATION OPPORTUNITIES**

- Harvest Management
- Hatchery Management
- Habitat Management
- Hydropower
- Predation and Invasives
- Science: Research and Monitoring



# MOVING RECOVERY FORWARD QUESTIONS?



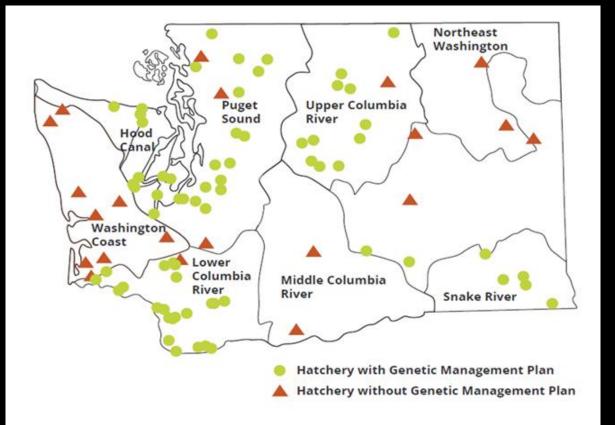


# HARVEST MANAGEMENT

Parental Escapement (% of full seeding)		Marine Survival Index (based on return of jacks per hatchery smolt)				
		Critical (<.08%)	Low (<.15%	Medium (<.40%)	High (>.40%)	
High	>0.75	<8%	<15%	<30%	<45%	
Medium	0.75 to 0.50	<8%	<15%	<20%	<38%	
Low	0.50 to 0.20	<8%	<15%	<15%	<25%	
Very Low	0.20 to 0.10	<8%	<11%	<11%	<11%	
Critical	<0.10	o-8%	o-8%	o-8%	o-8%	



### HATCHERY MANAGEMENT



Goals		Historical	Rec. Plan Baseline	Recovery Plan Minimum Viability Goal	
Minimum Viability			Very Low	Medium+	
Escapement	Natural Origin Fish	24,000	500	3,000	
Gene Flow (pHOS or PNI)			PNI 0.10	PNI >0.50	
Fitness			0.50	<mark>0.51</mark>	
Harvest Rate	Hatchery Origin Fish		65%	<mark>63%</mark>	
	Natural Origin Fish		65%	<mark>63%</mark>	

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### HABITAT MANAGEMENT







# HYDROPOWER

- Fish Passage
- Spill Management
- Reintroduction Efforts
- Instream Flow Maintenance
- Mitigation for Habitat Impacts

