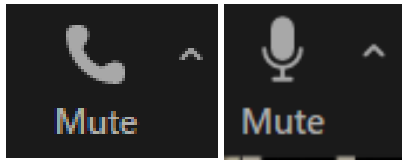
Columbia Basin Collaborative Habitat Work Group

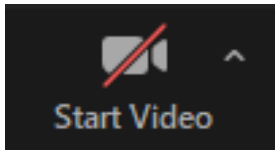
December 12th, 2022

Zoom Features

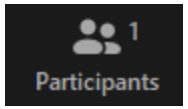
Keep yourself on mute when not speaking.

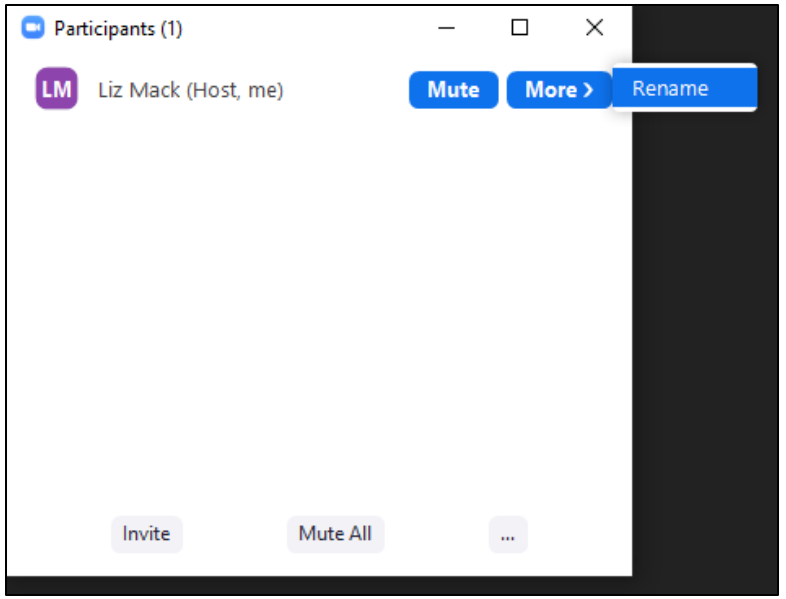


Use video, if possible, to promote face to face communication.

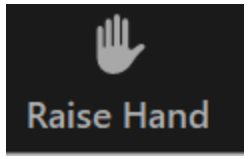


If needed **rename yourself** in the participant panel.



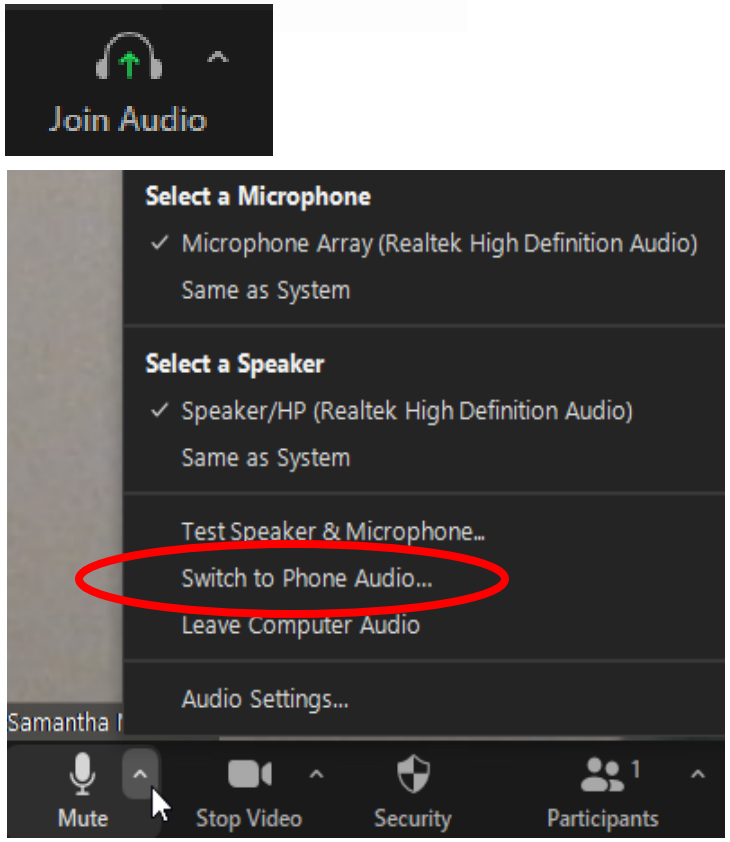


Find your **raise hand function** at the bottom of your screen



Zoom Features

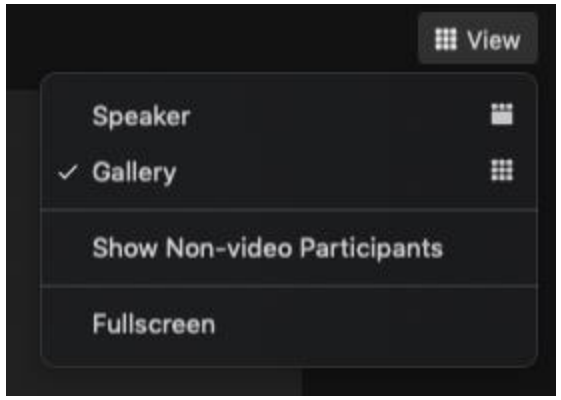
- If you have not **connected your audio**, click on the “Join Audio” at the bottom left of your screen.
- To **switch to phone**, click the arrow next to the microphone icon and select “Switch to Phone Audio”.
- If you have joined by browser, please click “Audio Settings”

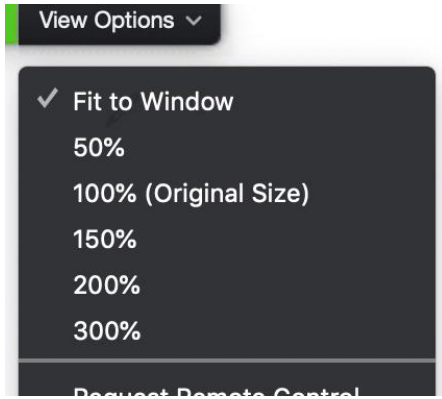


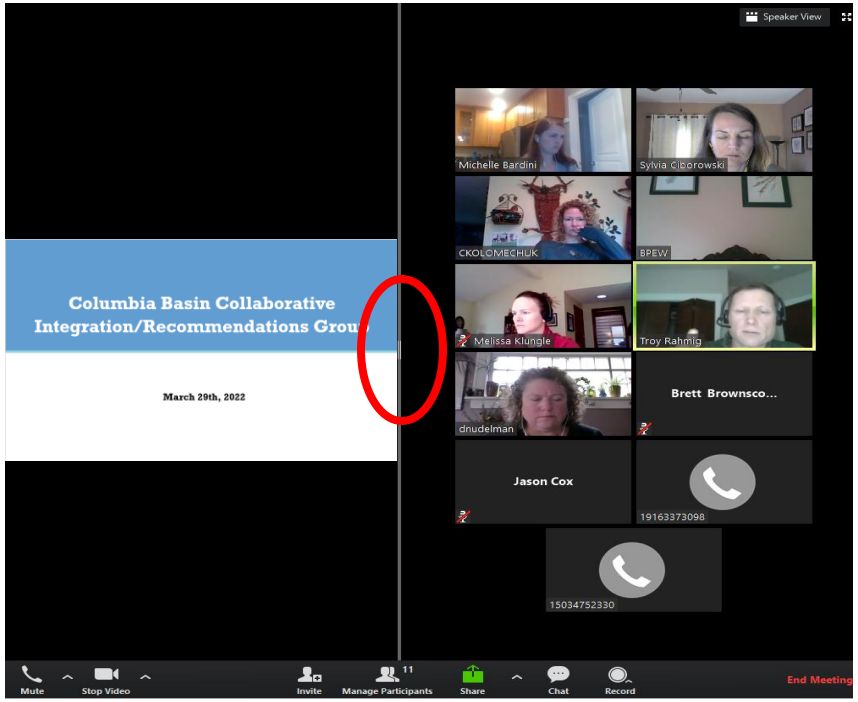
For technical support, please contact Colin Johnson

Zoom Features

Adjust view options







For technical support, please contact Colin Johnson

Welcome, Agenda Review, and Updates

Collaboration

Focus on your interests, not positions

Invent options for mutual gain

Separate the people from the problem

Meeting Guidelines

- Honor the agenda
- Listen to understand and ask questions to clarify
- Balance speaking time
- Don’t pile on
- Be present

Agenda Review

Time (PT)	Topic
12:00 – 12:10 pm	Welcome, Agenda Review, and Updates
12:10 – 12:20 pm	Work Plan Review
12:20 – 12:35 pm	Estuary Habitat Discussion Resources and Gaps
12:35 – 12:50 pm	Tributary Habitat Discussion Resources and Gaps
12:50 – 1:20 pm	Presentation
1:20 – 1:30 pm	Break
1:30 – 2:00 pm	General Recommendations for Habitat
2:00 pm – 2:50 pm	Develop Short Term Recommendations – highest priority stocks
2:50 pm – 3:00 pm	Confirm Next Steps, Upcoming Meeting Topics, and Summary

Work Plan Review

Habitat Work Plan

Meeting	Goals
Kick off	Introduction to CBC Estuary and Tributary Habitat Work Group • Come to shared understanding of the assignment from the I/RG and information available from the CBPTF • Identify existing forums, gaps, and funding needs and sources • Start developing work plan Assess gaps in existing forums, science, and funding
Meeting 2:	Finalize work plan • Clarify request from the I/RG • Further identify priority habitat programs, locations, responsible entities and limiting factors • Further understand challenges and opportunities to habitat restoration efforts
Meeting 3:	Develop short term recommendations • Identifying priority areas for restoration and protection related actions • Identify implementers, partners, and collaborators in the work • Identify challenges and potential solutions
Meeting 4:	Develop long term recommendations • Finalize short term recommendations to go the Science Integration Work Group and the I/RG • Overview of successful long-standing programs

Estuary Habitat Discussion
Recap of Resources and Gaps

Tributary Habitat Discussion
Recap of Resources and Gaps

Presentations

Today's Panel of Presenters:

- Patty Dornbusch – NOAA Fisheries
- Emmit Taylor – Nez Perce Tribe
- Tracy Bowerman – Upper Columbia Salmon Recovery Board

2020 CRS TRIBUTARY HABITAT PROGRAM

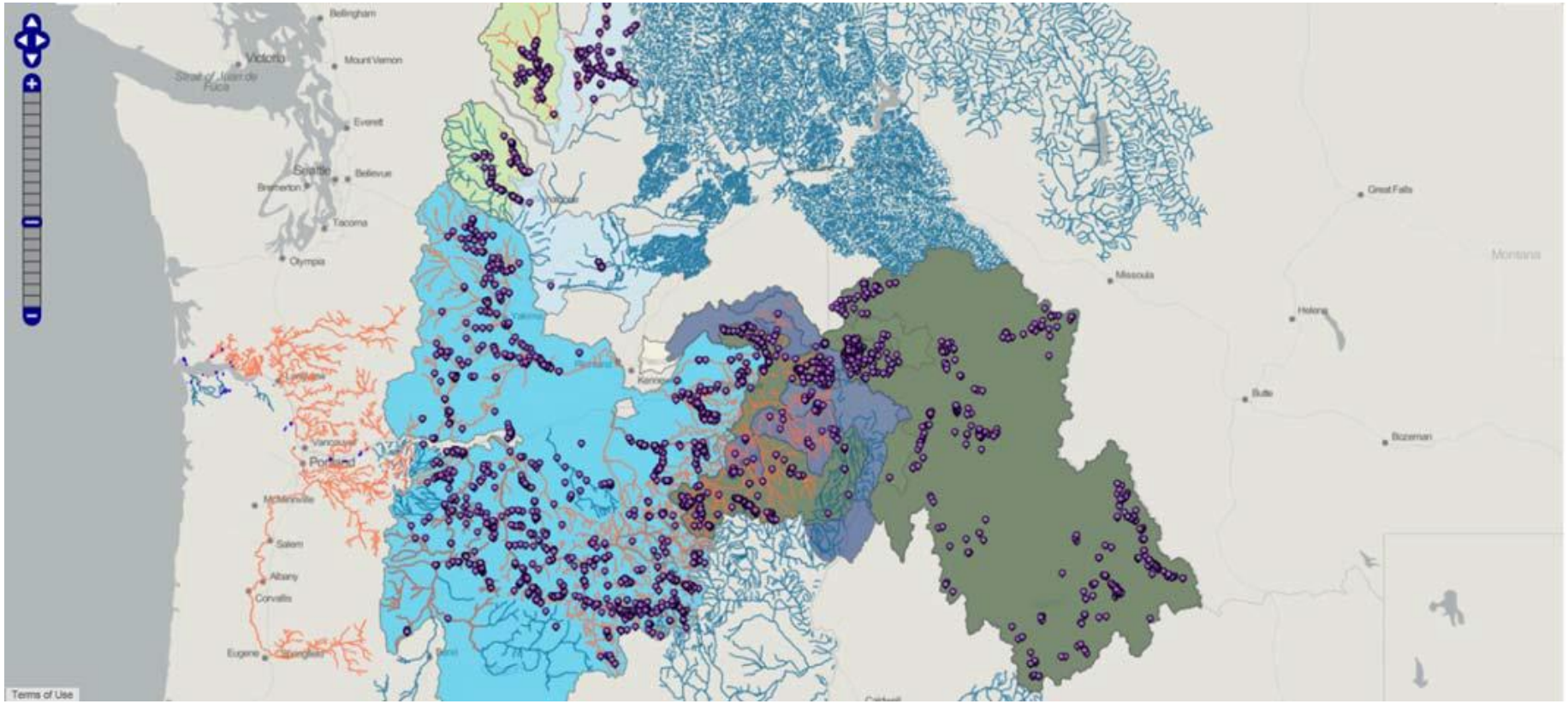
Overview

- Program Purpose, Scale, and Scope
- Implementation Framework
- Evolution of Program
- Implementation Considerations

Program Purpose

- Help “address uncertainty related to residual adverse effects of CRS management on the listed salmon and steelhead that migrate through the CRS, including uncertainty regarding such effects in the face of climate change”
- Mitigate for CRS effects by improving survival in fresh-water habitat and, ultimately, improving population abundance, productivity, spatial structure, and diversity.

Program Scale



https://www.cbfish.org/Map.mvc/Display/29

Program Scale: Cumulative Metrics

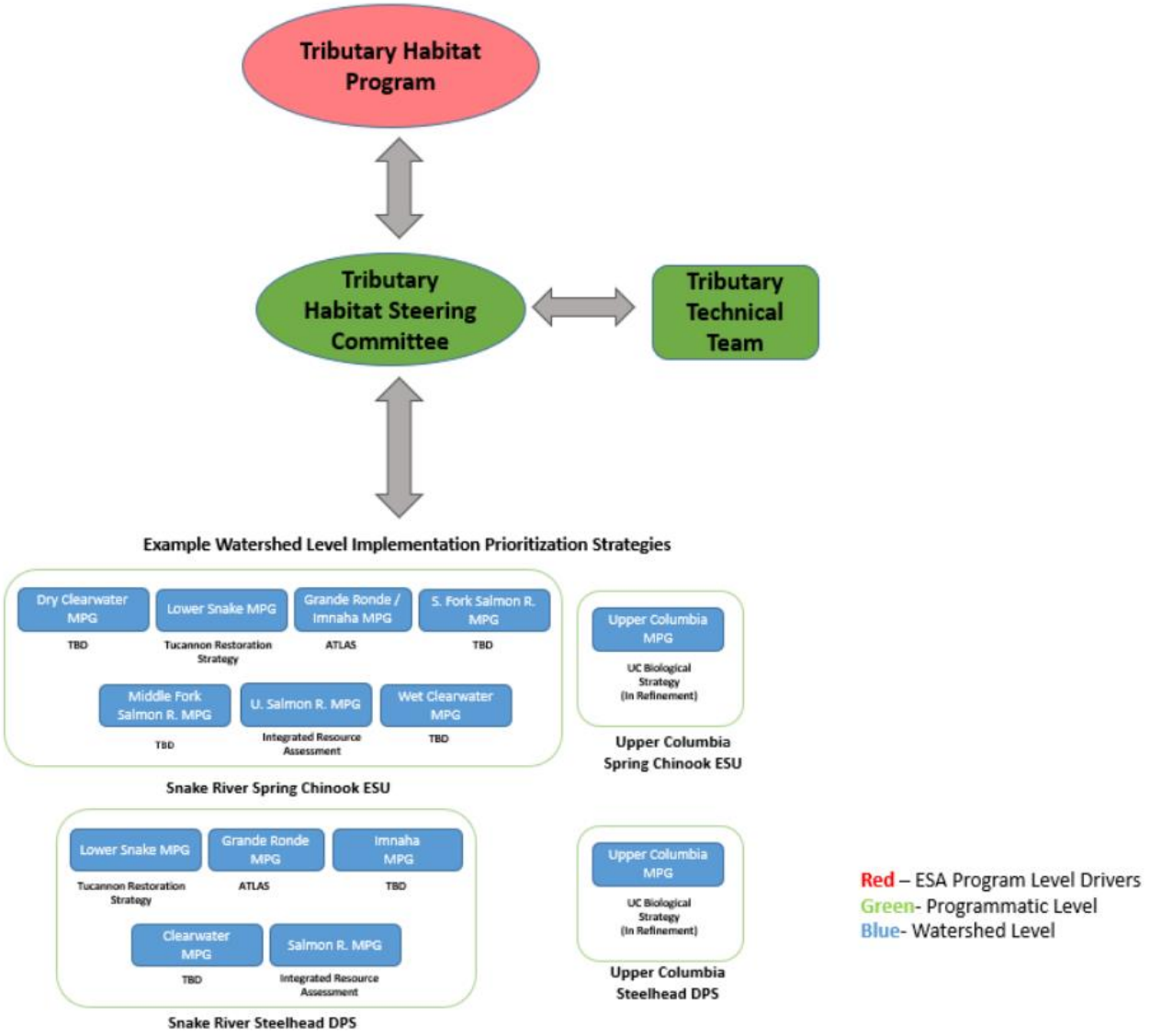
(2007-2018, for 4 stocks)

Action Type	ESU/DPS			
	SR SP/SU CHK	SR STD	UCR SP CHK	UCR STD
Acre feet water protected	84,075	84,565	23,709	40,373
Riparian acres protected	3,221	3,342	315	421
Riparian acres improved	6,651	7,791	435	1,610
Miles enhanced or newly accessible	1,301	1,364	117	231
Miles protected	184	227	10	19
Screens Installed	85	85	12	98

Program Scale: Funding

- Approx. $240 million BPA funding + $10 million BOR funding annually
- Most projects include multiple funding sources (BPA/BOR, PCSRF, other funding)
- If more project funding were available, would need more staff, design, permitting capacity.

Program Framework



Reporting and Analysis

- Five-Year Implementation Plan (Actions planned 2020-2025)
- Annual reporting on actions implemented
- Five Year Comprehensive Review
  - Analyzes actions implemented
  - Recommends Adaptive Management Actions

Program Evolution: Opportunistic to Strategic

- **Goal: Continue to improve efficiency, pace, and effectiveness of tributary habitat action implementation**

- **Implementation oversight:**
  - Informal initially to Tributary Habitat Steering Committee (THSC)
  - Stronger links to recovery plans and ESA recovery goals

- **Scientific input:**
  - Expert panels to Tributary Technical Team (TTT)
  - Improved understanding of types and amounts of actions that will move the needle
  - Improved tools for prioritizing actions and evaluating outcomes

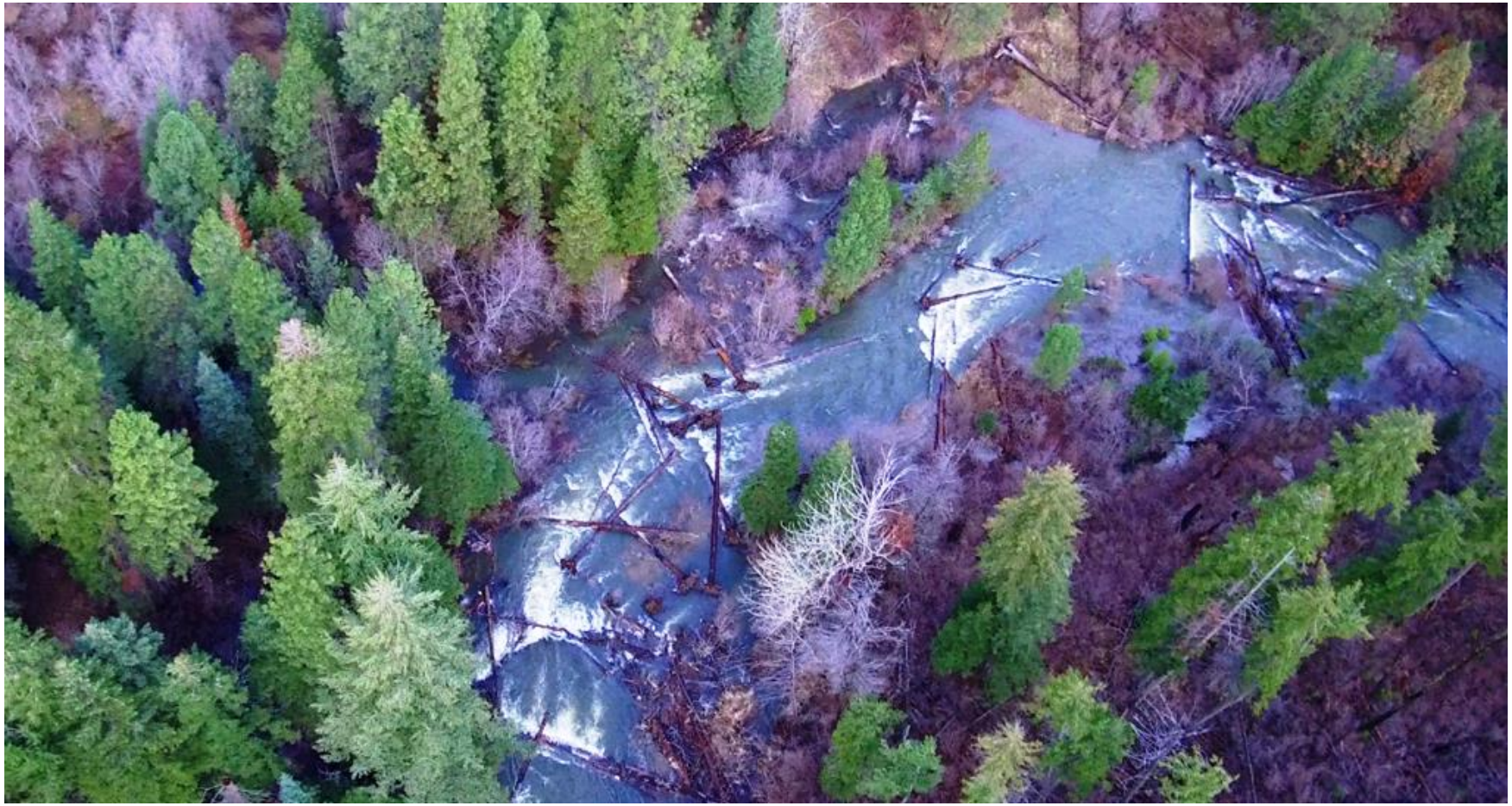
- **Reporting and analysis**
  - Longer time frame (5 vs 3 years)
  - Greater emphasis on identifying best tools to evaluate program benefits and on adaptive management

- **Relationships and communications**
  - Information sharing among local groups and from TTT & NWFSC to THSC and local groups
  - Incorporate lessons learned from other successful programs

Implementation Considerations

- **Technical**
  - What MPGs and populations to focus on.
  - How to ensure actions are being identified and prioritized based on best available information.
  - How to evaluate program benefits.
- **Relationships/Communications**
  - Communication between program level and local level implementers
  - How to disseminate technical information & enhance dialog

Questions?



Nez Perce Tribe

Department of Fisheries Resources Management

Watershed Division

Columbia Basin Collaborative Habitat Workgroup

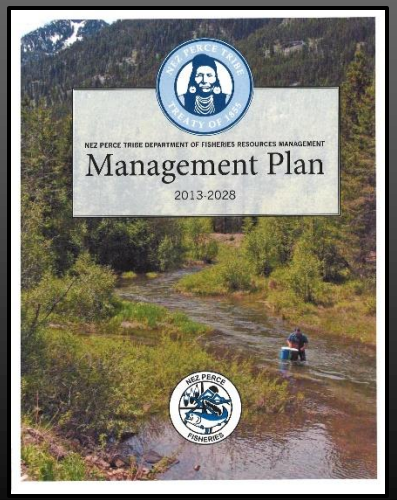
December 12, 2022

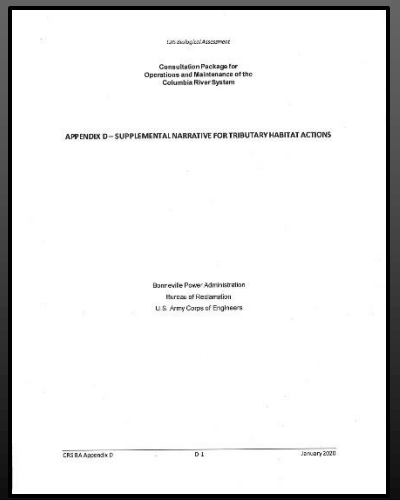
Focus Questions

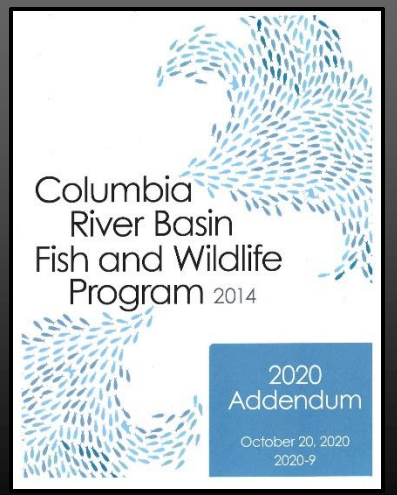
- How your organization goes about identifying and prioritizing projects
- How your organization gets funding and implement projects
- 1-3 projects that the Tribe is developing – either new projects or existing projects that you believe are the most effective to habitat restoration and protection

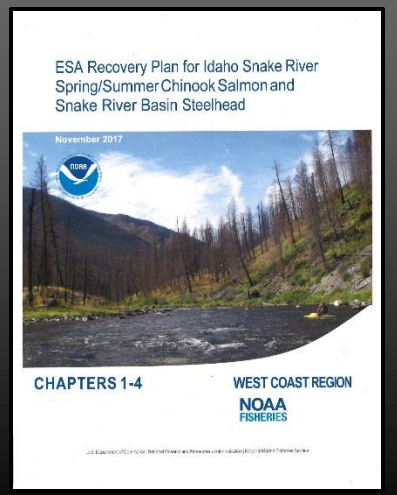
NPT DFRM Focus Watershed Restoration Program

- Overall Goals
  - Implement the goals and directions provided in the NPT Department of Fisheries Resources Management 2013-2028 Management Plan
  - Work with:
    - BPA in implementation of its Fish and Wildlife Program and FCRPS/CSRO commitments
    - NPCC and the implementation of their Fish and Wildlife Program
    - NOAA Fisheries Recovery Plans
  - Facilitate and coordinate an organized and efficient watershed/aquatic ecosystem restoration and protection program throughout the NPT Treaty Territory
  - Lead a team of professional and technical staff



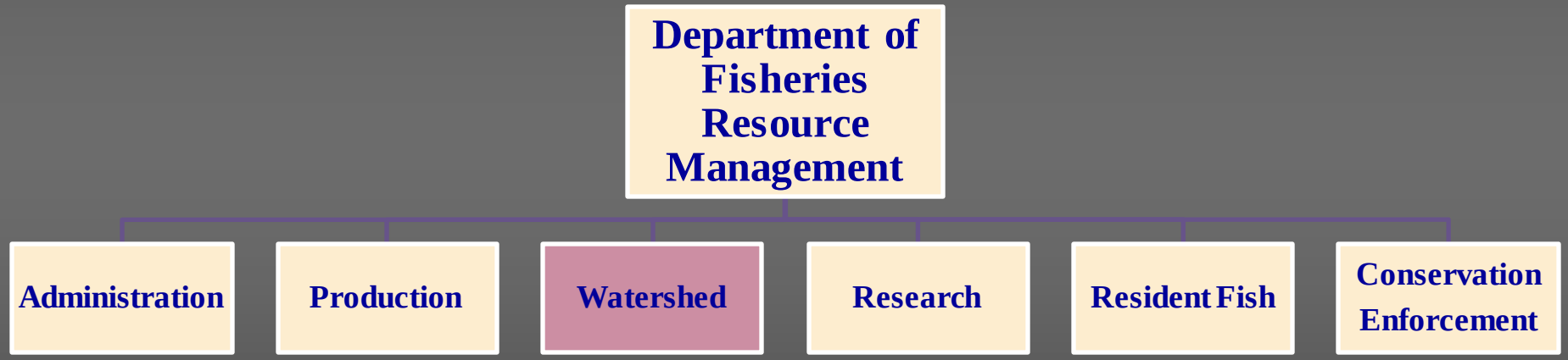






Nez Perce Tribe

Department of Fisheries Resources Management



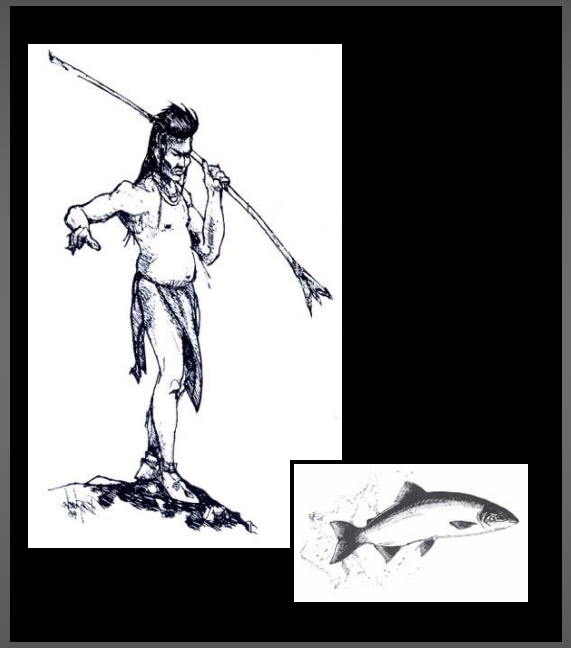
- Bonneville Power Base Funding
- $6.1 million

2018-2020 Non-BPA Cost Share

#	Grantor	Amount
1	Grande Ronde Model Watershed	$686,553
2	Idaho Office of Species Conservation Pacific Coastal Salmon Recovery Funds	$380,000
3	National Fish and Wildlife Foundation	$216,300
4	Nez Perce Tribe Snake River Basin Adjudication	$261,000
5	Oregon Watershed Enhancement Board	$295,372
6	Resource Legacy Fund	$100,000
7	Trout Unlimited	$8,223
8	US Army Corps of Engineers	$931,875
9	US Bureau of Indian Affairs	$165,000
10	US Bureau of Land Management	$49,012
11	US Bureau of Reclamation	$99,943
12	US Forest Service - Boise National Forest	$208,806
13	US Forest Service - Nez Perce-Clearwater National Forests	$1,817,683
14	US Forest Service - Payette National Forest	$275,128
15	Washington Department of Transportation	$482,876
16	Washington Snake River Salmon Recovery Board	$4,570,676
17	Western Organization of Resource Councils	$9,000
	TOTAL	**$10,557,447**
	3-YEAR ANNUAL AVERAGE	**$3,519,149**

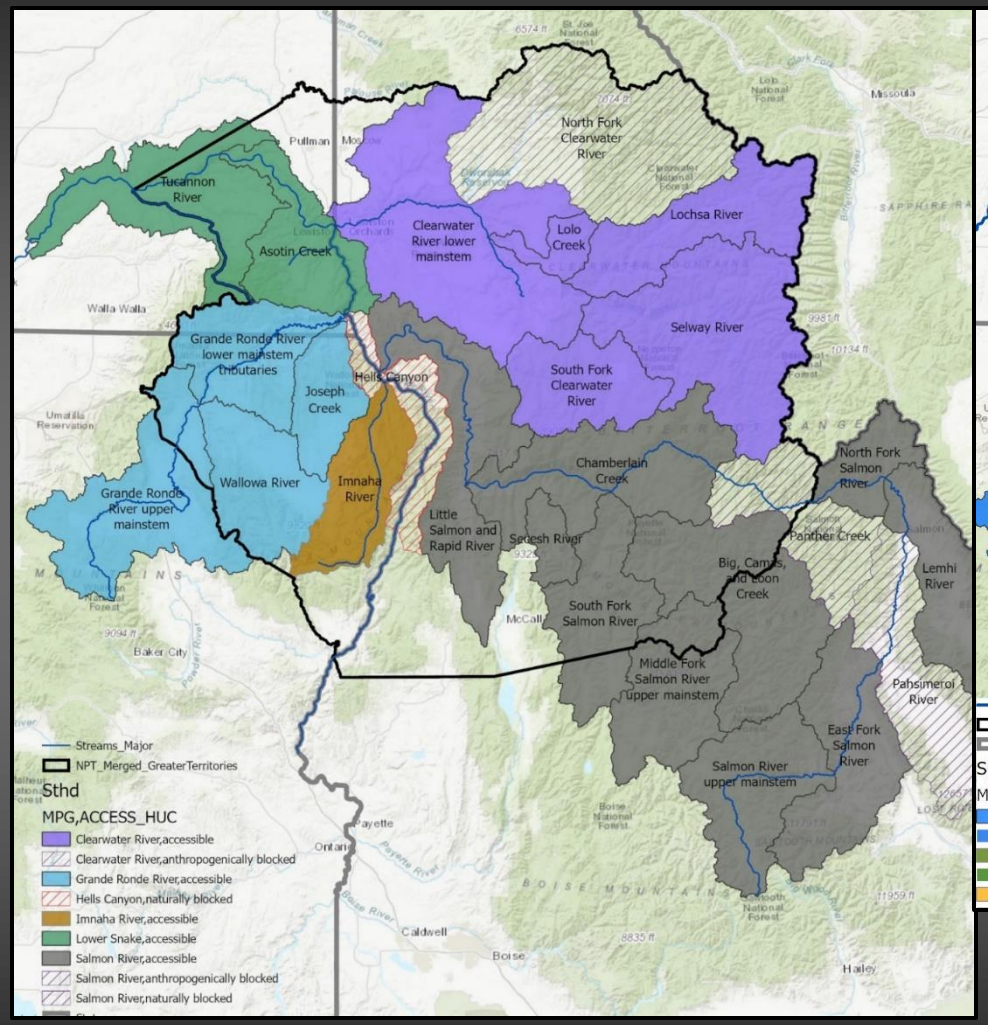
Nez Perce Tribe
Department of Fisheries Resources Management
Watershed Division

Nez Perce Tribe Territory / Restoration Focus Area



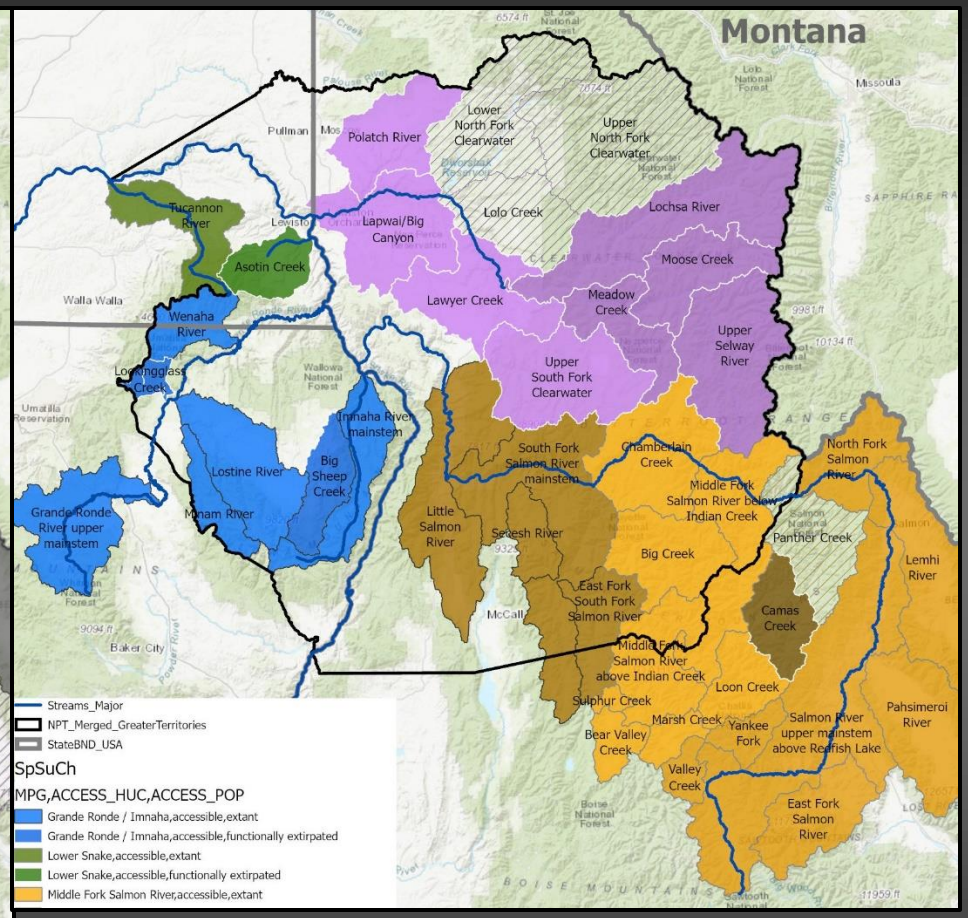
- 13.3 Million Acres
- 3 States
- 6 National Forests

ESA Listed Snake River Steelhead MPG's and Populations



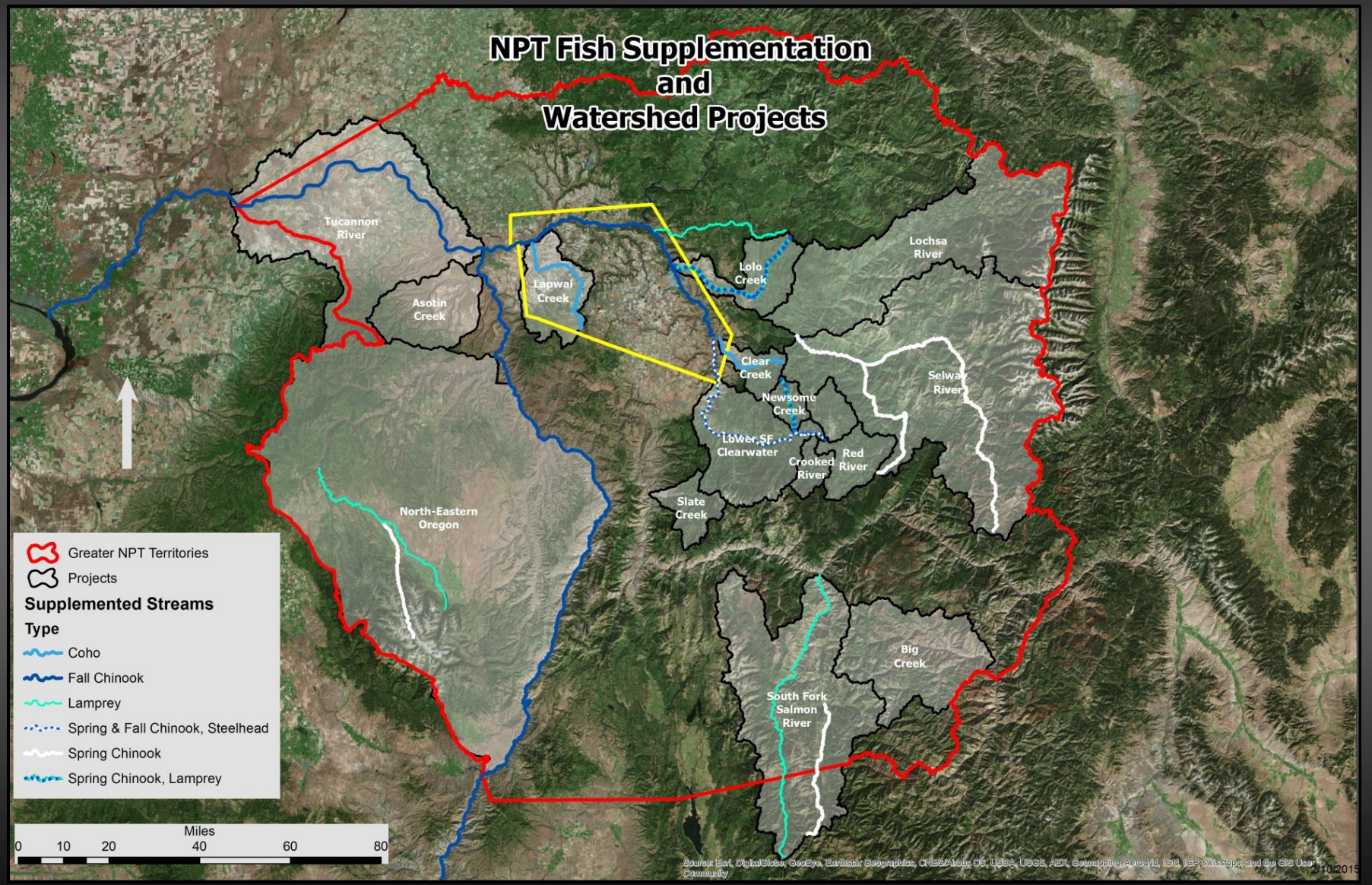
- 5 of 6 MPG's
- 15 of 26 Populations

ESA Listed Snake River Spring/Summer Chinook Salmon MPG's and Populations

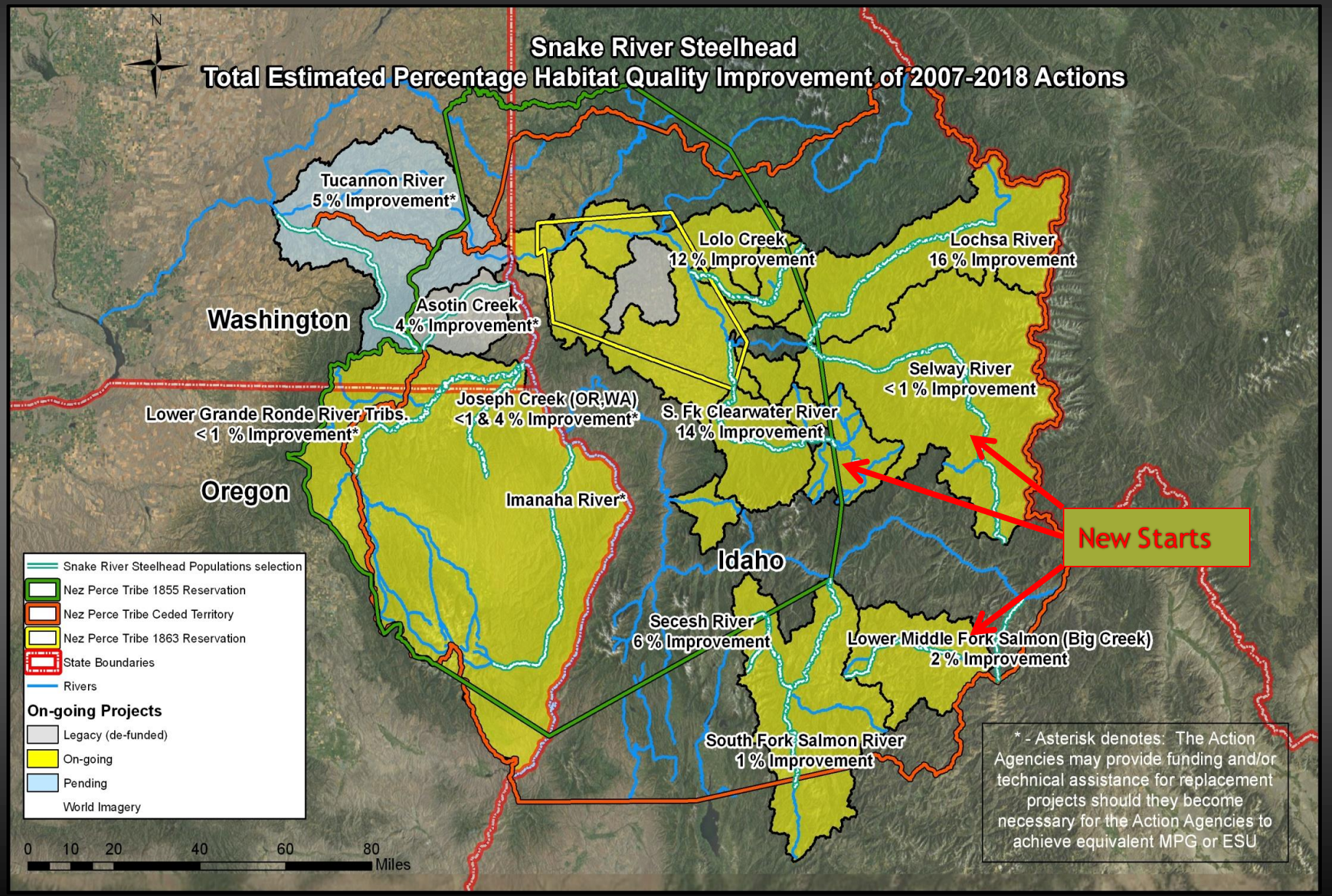


- 4 of 5 MPG's
- 13 of 32 Populations

Supplementation and Habitat Restoration Working Together

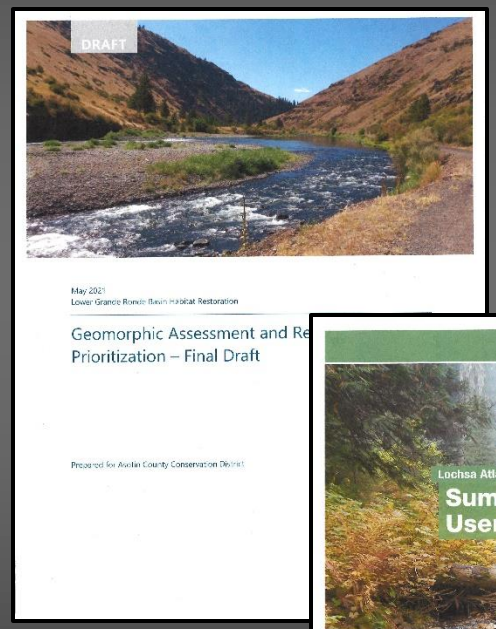


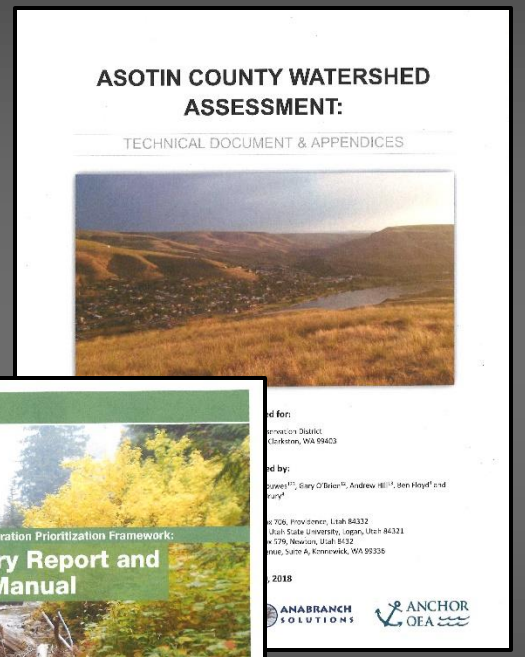
2008 FCRPS/2021 CSRO Priority Populations

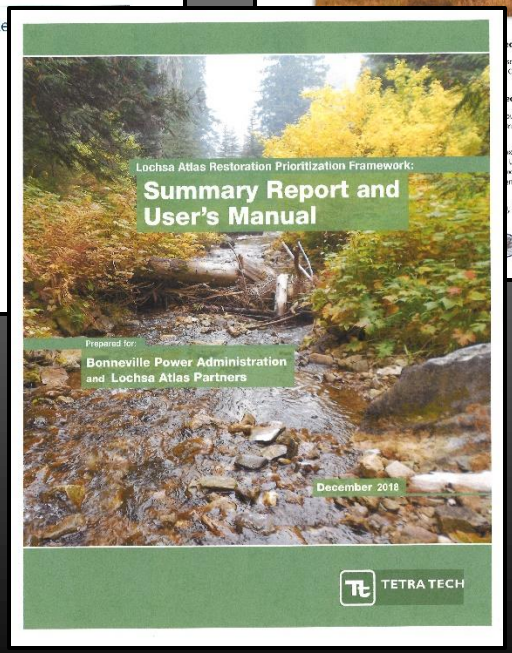


How we choose what Watershed Restoration Actions to Implement

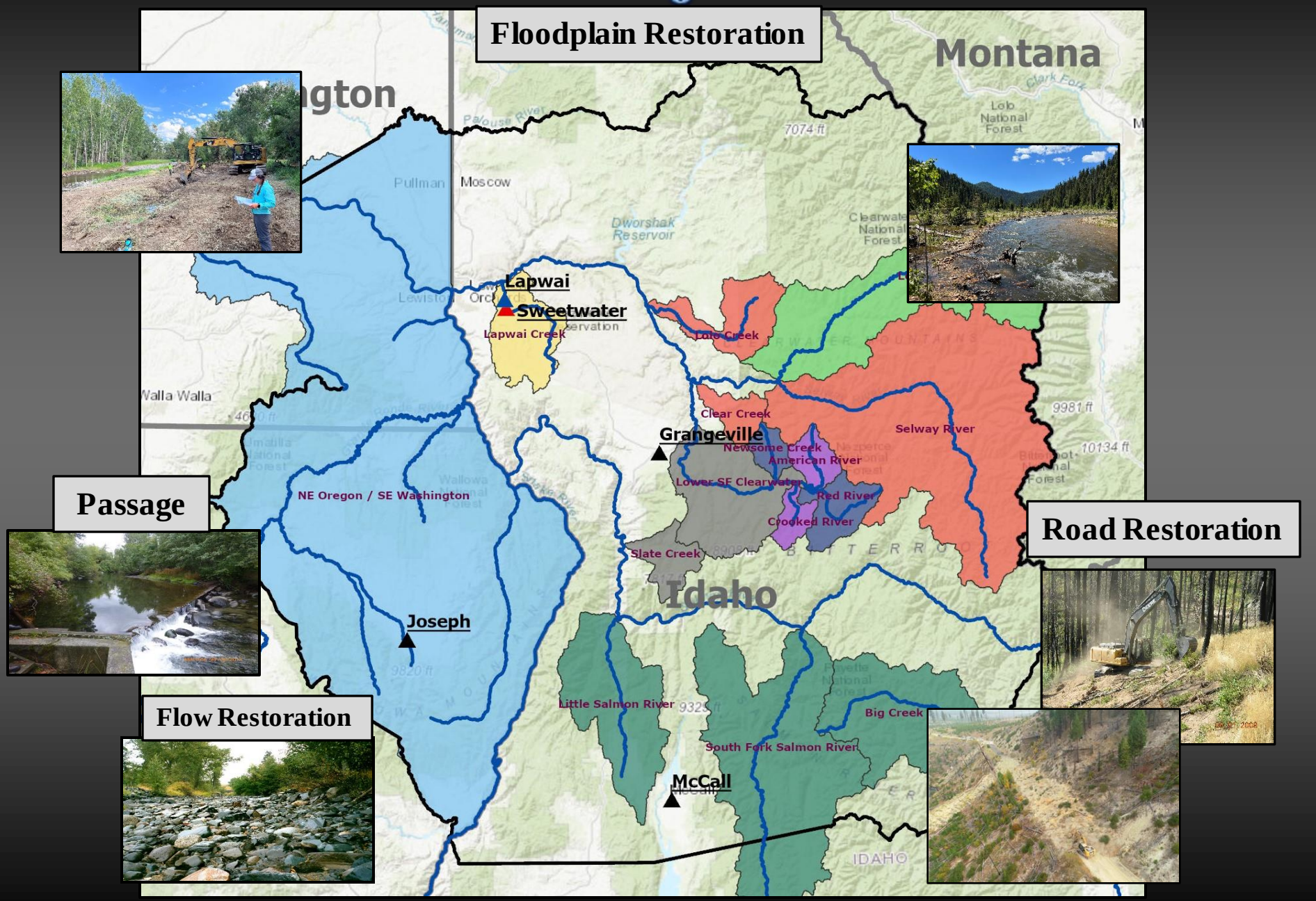
- Watershed Assessments
- Limiting Factors Analysis
- FCRPS BiOp Expert Panel Process
- **Atlas**
  - **Brings together anyone with data and knowledge**
  - **Compiles all data available**
  - **Gets every on same page**
  - **Completed**
    - **Lochsa**
  - **In development**
    - **Lolo Creek (90% complete) and Wallowa County (75% complete)**
  - **Future**
    - **Lapwai Creek, SF Clearwater, SF Salmon**
- On-the-ground Knowledge







Current Project Areas



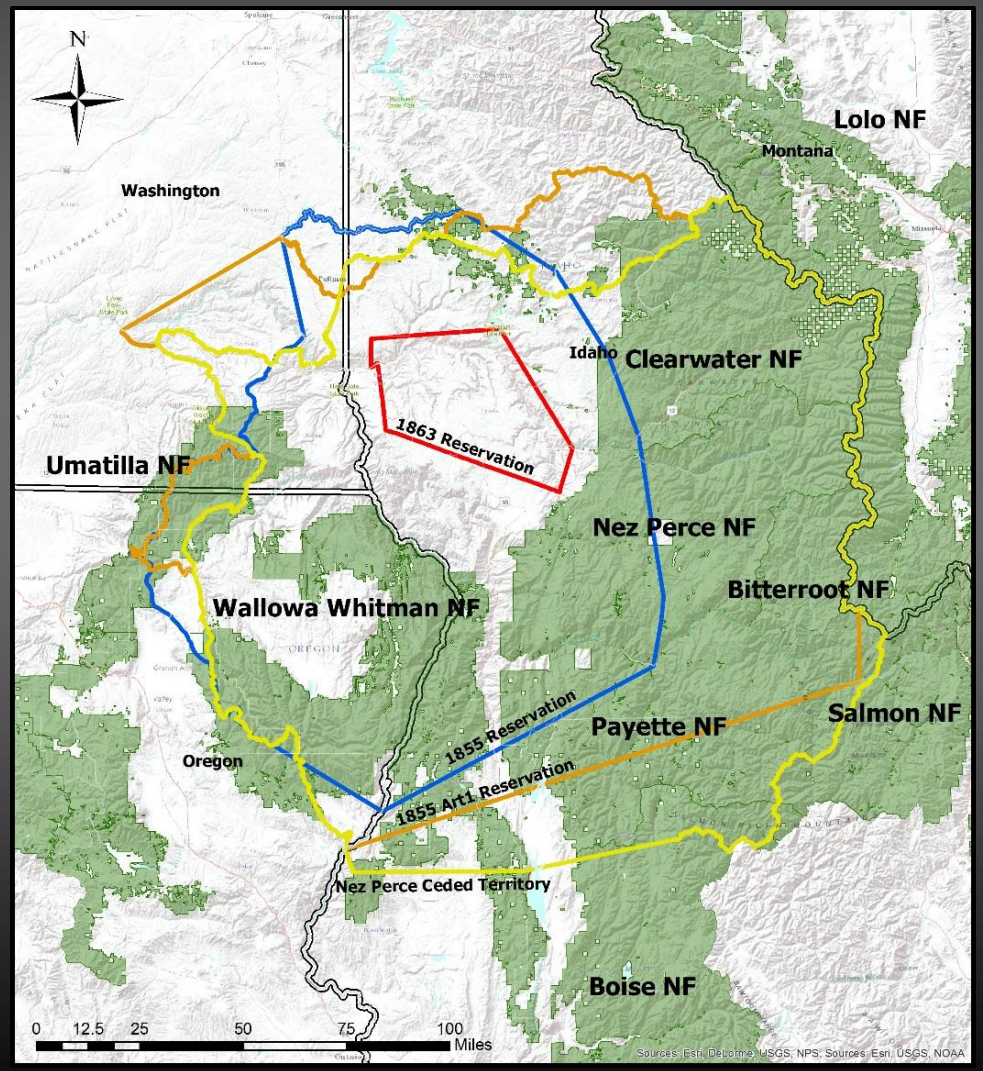
Partnerships

- Relationship Building
- Collaborative Prioritization
- Formal Agreements
- Cost-Share
- Co-implementation

- Regional
  - BPA
  - NPCC
  - CRITFIC
  - NOAA Fisheries
- SE Washington
  - Snake River Salmon Recovery Board
  - Umatilla National Forest
  - Asotin/Columbia Conservation Districts
  - Private Landowners
  - Washington Department of Fish and Wildlife
- NE Oregon
  - Wallowa Land Trust
  - Grande Ronde Model Watershed
  - Wallowa Resources
  - Wallowa-Whitman National Forests
  - Natural Resource Advisory Committee
  - Private Landowners
  - Oregon Department of Fish and Wildlife
  - Trout Unlimited
- Clearwater River
  - NP-Clearwater National Forests
  - NP Soil Water Conservation District
  - Idaho Department of Transportation
  - Bureau of Land Management
  - Nez Perce Tribe
  - Trout Unlimited
- Salmon River
  - NOAA/USFWS
  - Payette/Boise National Forest
  - Private Landowners (two conservation easements)
  - Idaho Fish and Game
  - Rocky Mountain Elk Foundation

And many more….

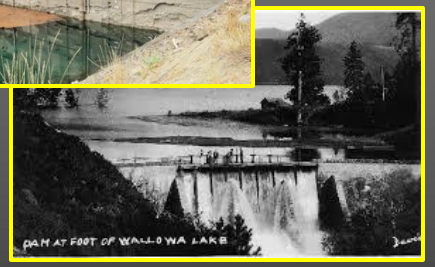
US Forest Service Partnership



- Partnership started in 1997 on the Clearwater National Forest
- Currently with 5 National Forests
  - Nez Perce-Clearwater National Forest
  - Boise and Payette National Forest
  - Wallowa-Whitman National Forest
  - Umatilla National Forest
- Master Agreement
  - Public Law 94-148
- Supplemental Project Agreements
  - Scope of work
  - Tasks and financial contribution from both parities
- Forest Service/BPA MOU
  - Forest Service required to provide a 20% match
- Challenges
  - Forest Service turnover

Important Big Lift Efforts

- **US Forest Service Plan Revisions**
  - Nez Perce-Clearwater National Forests
  - Blue Mountains
    - Wallowa-Whitman National Forest
    - Umatilla National Forest
  - A 10-year plan that will be in place for 30-years
- **Regional Tributary Habitat Strategy**
- **Lewiston Orchards Water Exchange Project**
  - Been working on since 2008
  - Critical cold water for a historic "source" Steelhead population for the Lower Clearwater
  - 19 miles of ESA Listed Steelhead
- **Wallowa Lake Dam Reconstruction**
  - Fish passage for Sockeye re-introduction
  - Increased flows – 5,000 acre-feet
- **Lochsa Checkerboard Land Exchange**
  - 38,000 acres in the Upper Lochsa River Drainage
  - Critical for high elevation, cold water refuge
- **Stibnite Mine Fight**
  - Headwaters of the South Fork Salmon River
  - Historically the most productive summer Chinook salmon population in the Columbia Basin
  - Perpetua Resources and Payette National Forest proposing to re-open a very large open pit gold mine



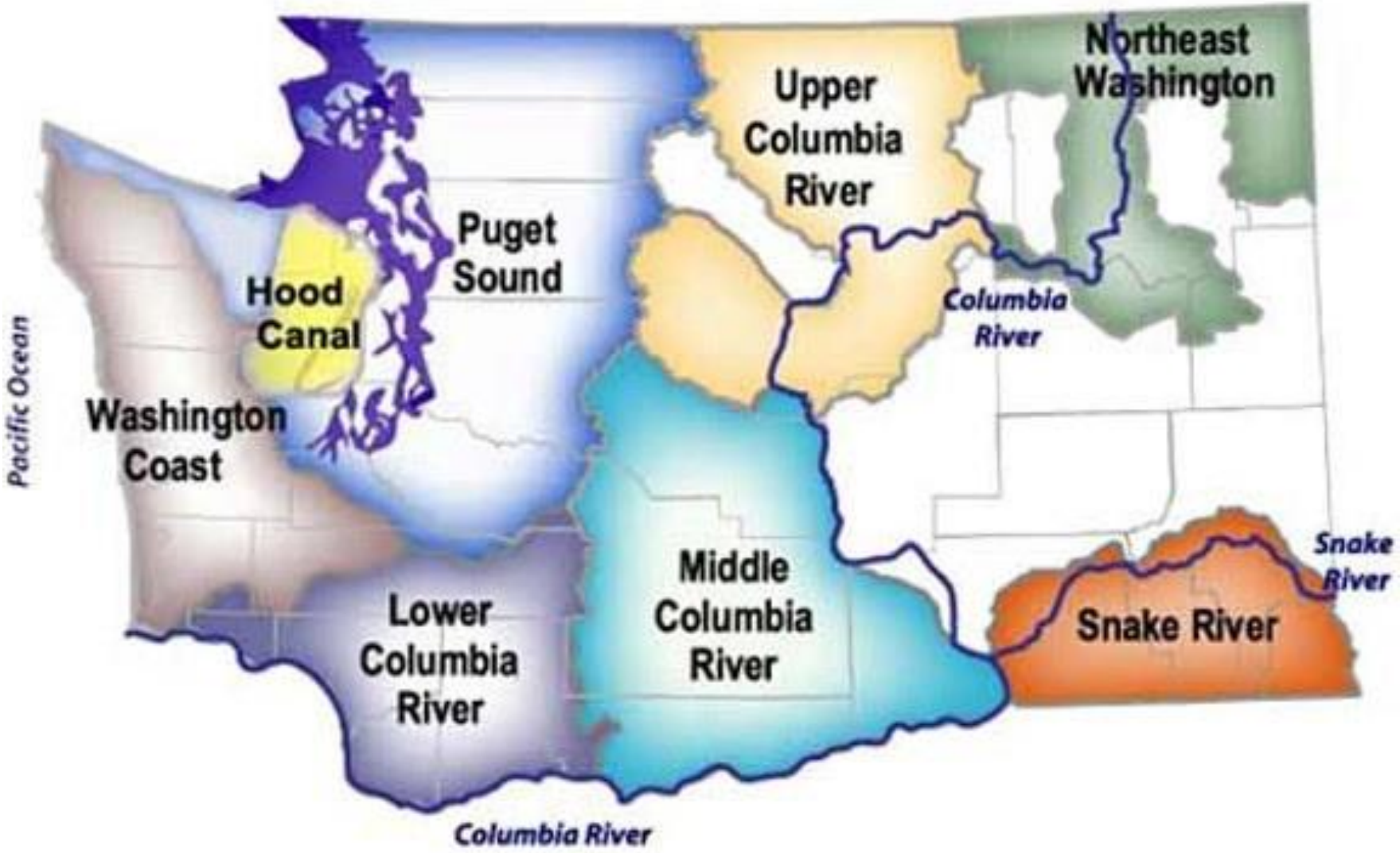
He'ma'qis

Qe'ciyew'yew (Thank you very much)

"The tribes have always treated water as a medicine because it nourishes the life of the earth, flushing poisons out of humans, other creatures, and the land. We know that to be productive, water must be kept clean. When water is kept cold and clean, it takes care of the salmon.
- Levi Holt (Nez Perce)

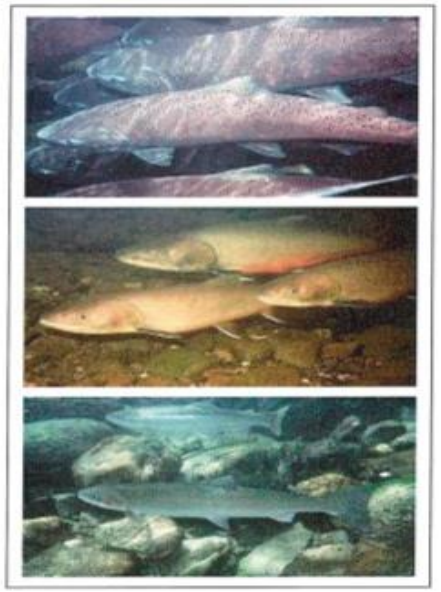
OUR MISSION IS TO RESTORE SPRING CHINOOK, STEELHEAD, AND BULL TROUT

Salmon recovery organizations statewide



Upper Columbia

Salmon and Steelhead Recovery Plan



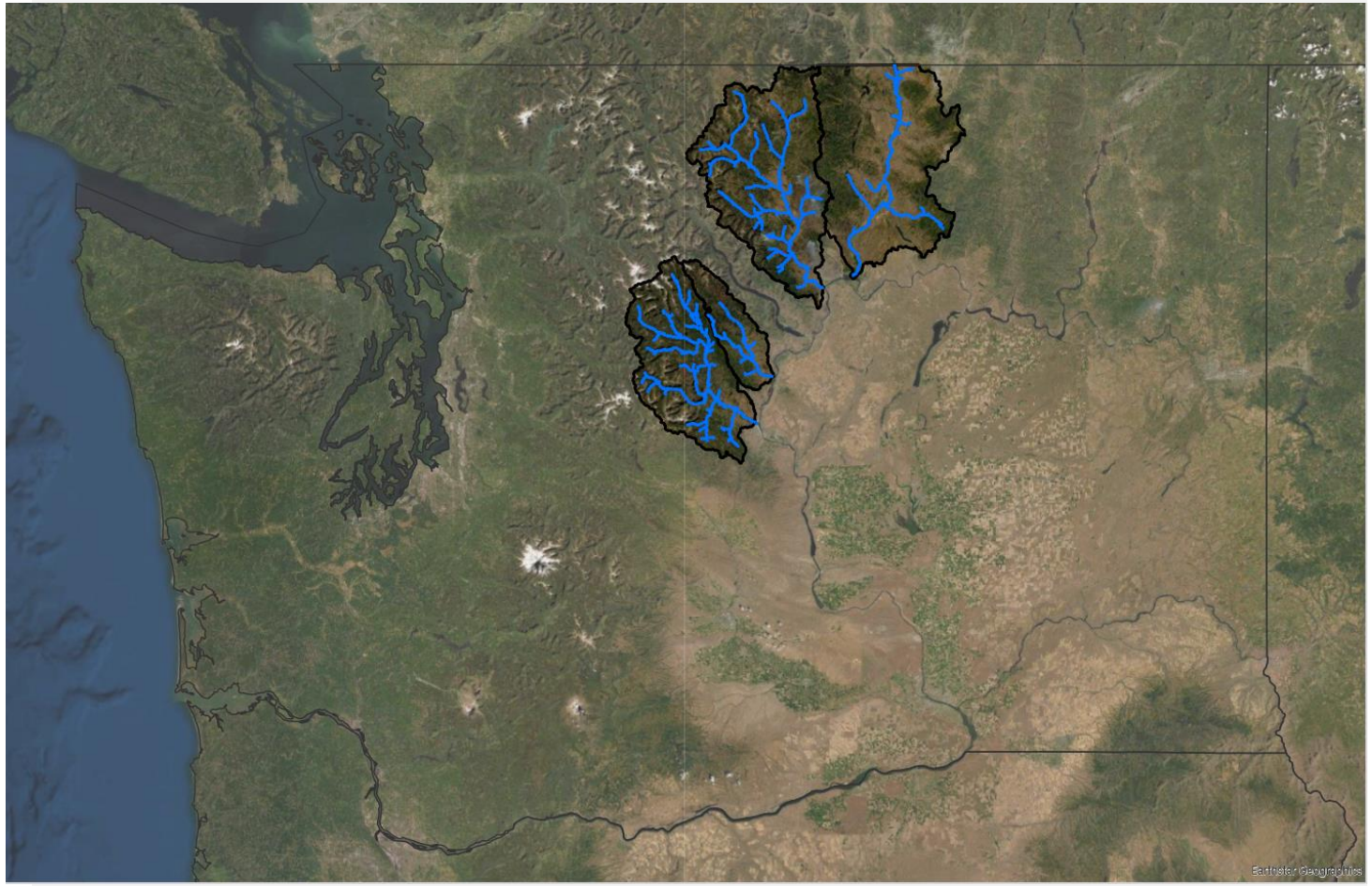
Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan*

August 2007

Upper Columbia Salmon Recovery Board

*This Plan also covers bull trout, which are under the jurisdiction of the U.S. Fish and Wildlife Service. The strategies and actions in this proposed plan are intended as additional recommendations for the draft bull trout recovery plan that was published by the U.S. Fish and Wildlife Service in April 2002.

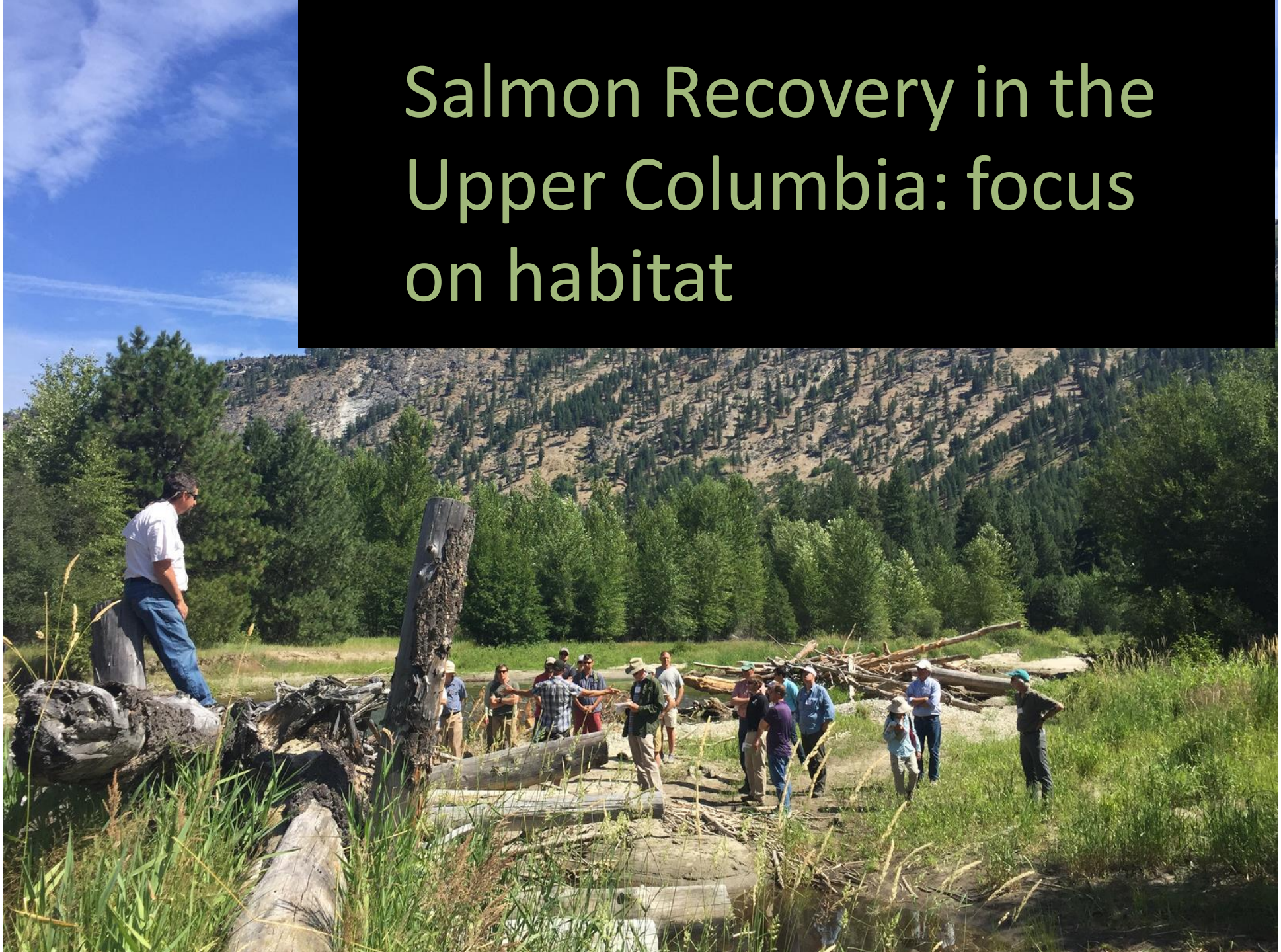
The 30-year plan is based on the biological needs of the fish and provides the foundation for restoring the populations to healthy levels.



Partner Organizations

The UCSRB partners with organizations in the region funding and implementing restoration and protection projects under the Recovery Plan.

Salmon Recovery in the Upper Columbia: focus on habitat

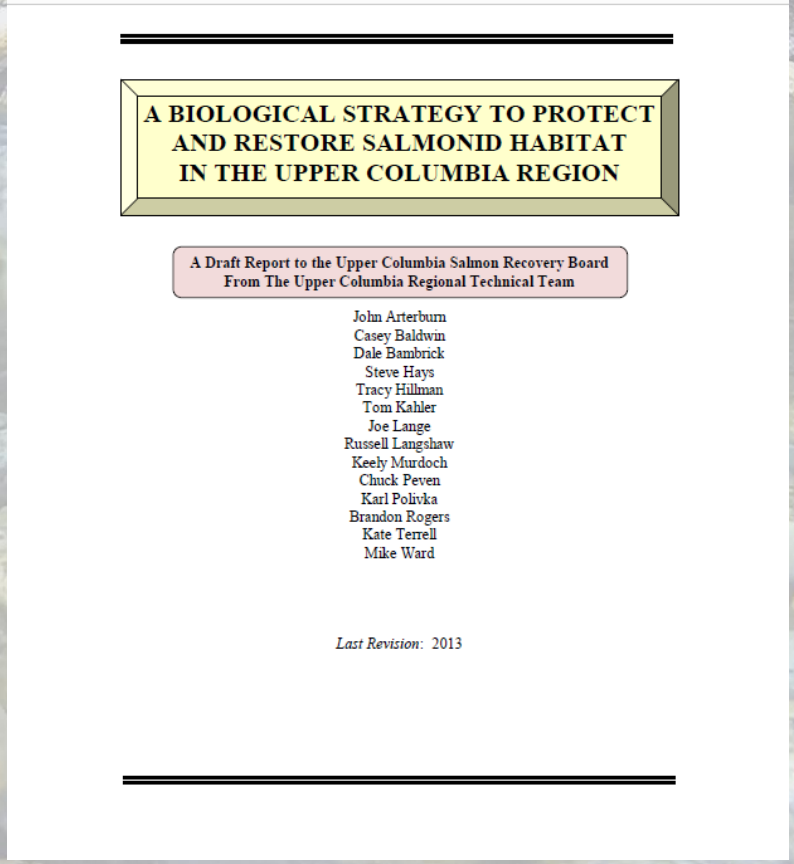


Upper Columbia Biological Strategy

2013-2020

Upper Columbia Regional Technial Team

- Ecological concerns
- Multiple Species
- Watersheds (HUC 10)
- Data and expert opinion



A BIOLOGICAL STRATEGY TO PROTECT AND RESTORE SALMONID HABITAT IN THE UPPER COLUMBIA REGION

A Draft Report to the Upper Columbia Salmon Recovery Board From The Upper Columbia Regional Technical Team

John Arterburn
Casey Baldwin
Dale Bambrick
Steve Hays
Tracy Hillman
Tom Kahler
Joe Lange
Russell Langshaw
Keely Murdoch
Chuck Peven
Karl Polivka
Brandon Rogers
Kate Terrell
Mike Ward

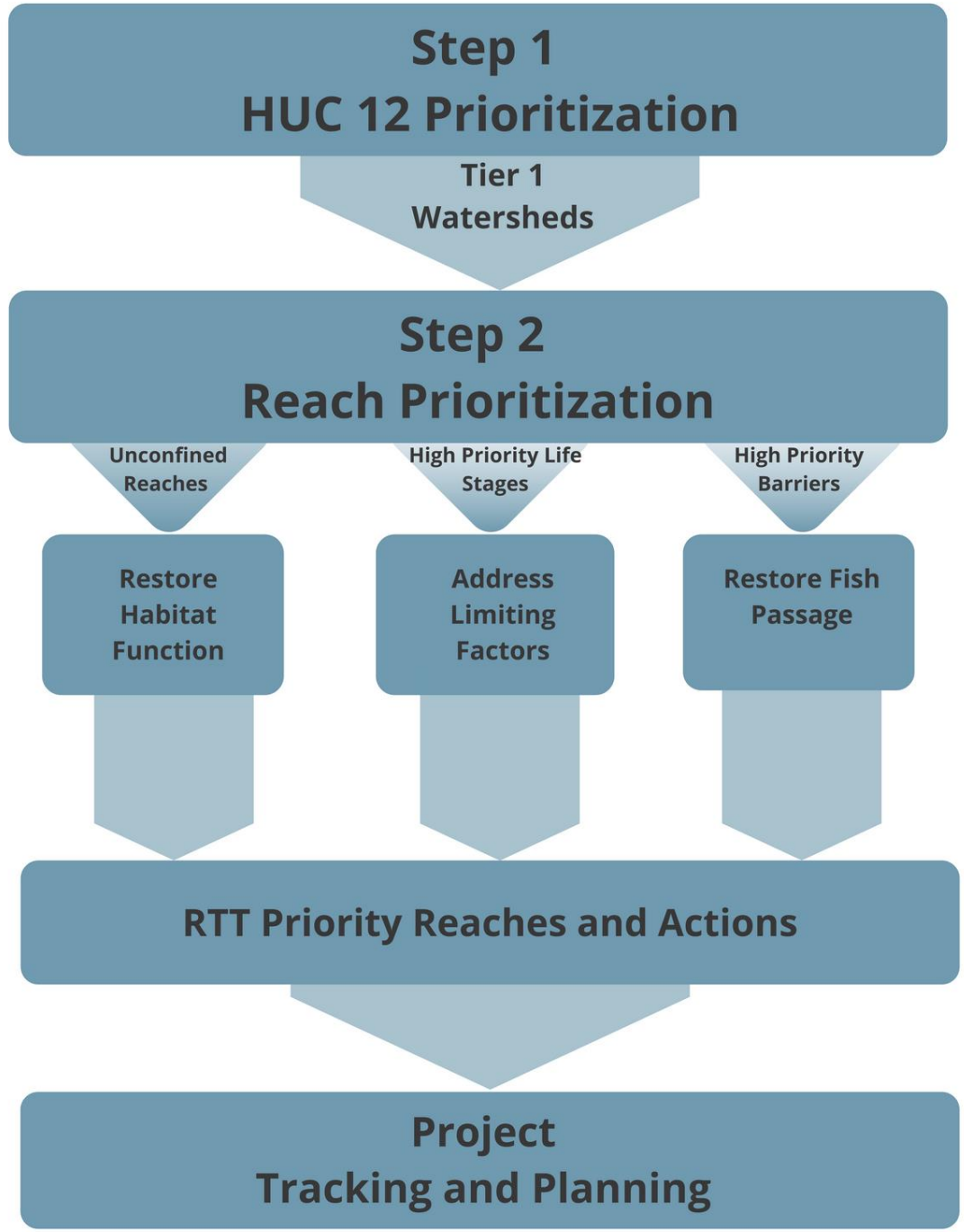
Last Revision: 2013

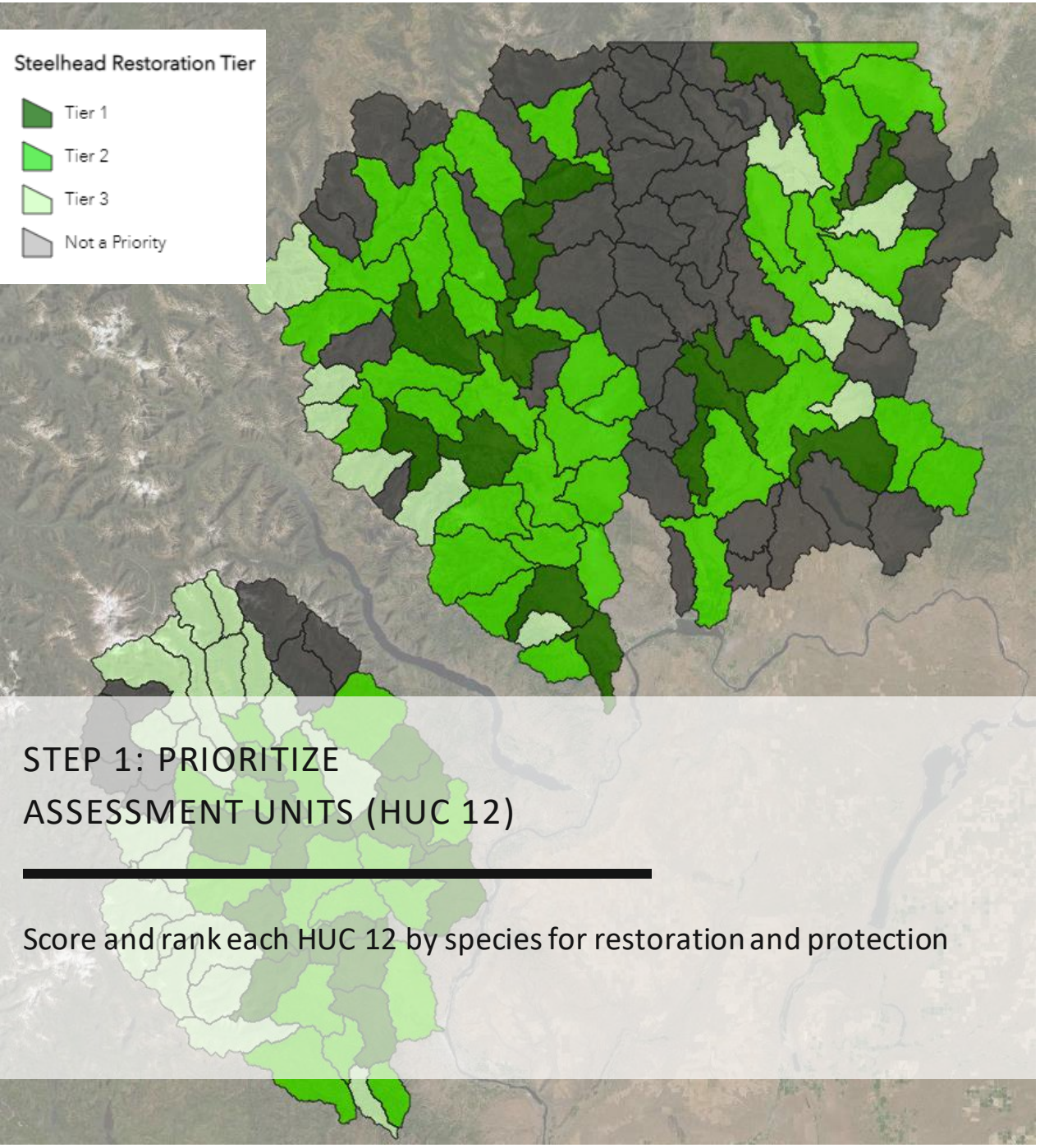
2021+

- Reach Function and Limiting Factors
- Individual Results by Species
- Sub watersheds (HUC 12)
- Mostly data driven

The objective of this strategy is to provide a consistent, repeatable, systematic, and well-documented approach for prioritizing restoration and protection actions and locations for restoration and protection.

Upper Columbia
Habitat Prioritization Strategy


Step 1
HUC 12 Prioritization
Tier 1
Watersheds
Step 2
Reach Prioritization
Unconfined
Reaches
High Priority Life
Stages
High Priority
Barriers
Restore
Habitat
Function
Address
Limiting
Factors
Restore Fish
Passage
RTT Priority Reaches and Actions
Project
Tracking and Planning



STEP 1: PRIORITIZE ASSESSMENT UNITS (HUC 12)

Score and rank each HUC 12 by species for restoration and protection

Each Assessment Unit ranked according to:

- Habitat condition
  - Intrinsic potential
  - Spawning area designation
- Population integrity indicators:
  - Life stage use
  - Spawner abundance
- Habitat Integrity:
  - Habitat quality
  - Percent altered by land use
- Future security
  - Climate change sensitivity
  - Percent protected

STEP 2: PRIORITIZE REACHES & ACTIONS

Muti-phase step that steps down from the HUC 12 to prioritize life stages, limiting factors, and actions to address those factors.

At the reach scale, identify habitat action types:

- Restore habitat function
  - Identify habitat condition
  - Prioritize restoration actions
- Address limiting factors for priority life stage
  - Identify life stage priorities and habitat requirements
- Restore connectivity
  - Address barriers

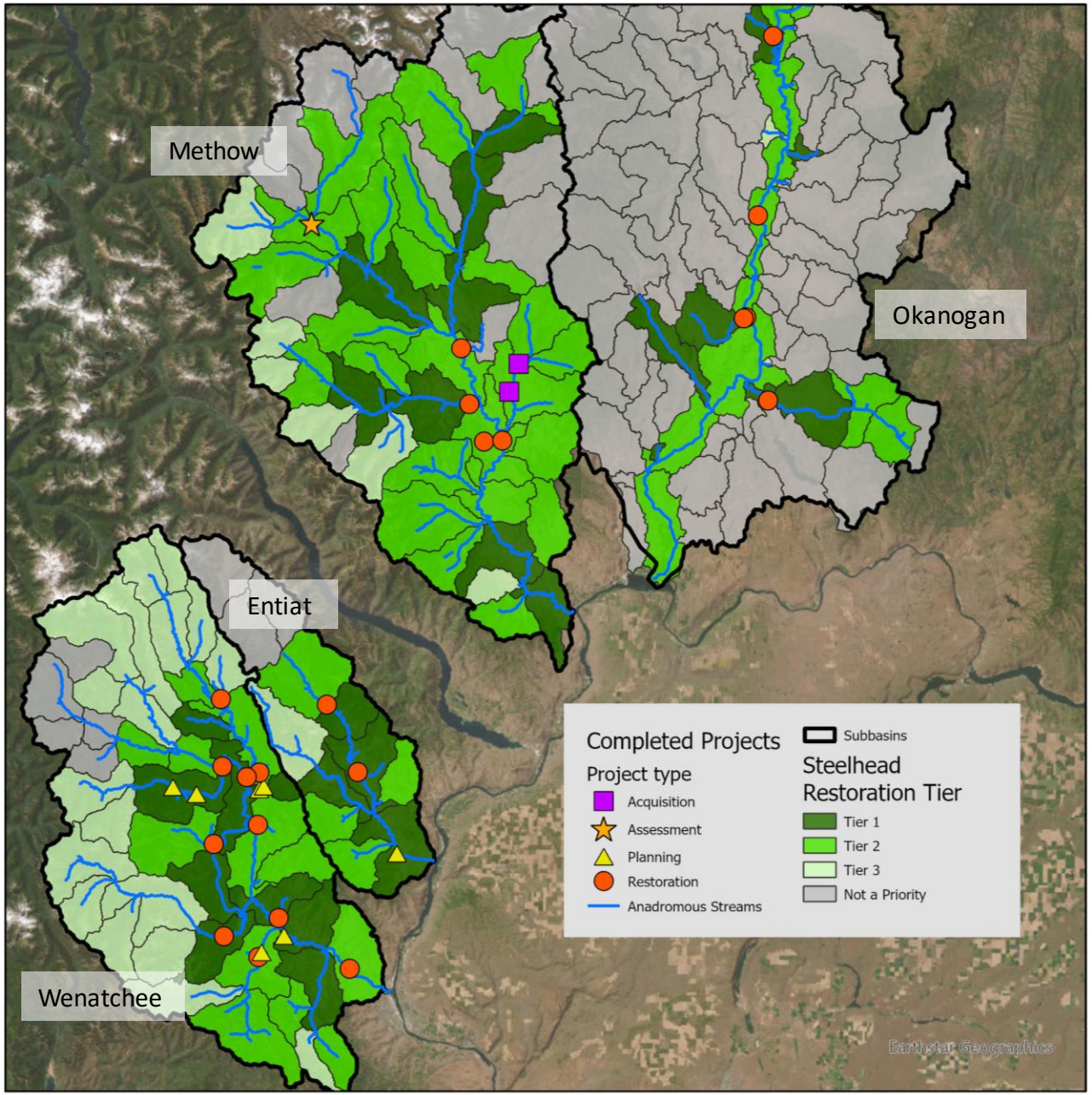
Prioritization used to evaluate:

- Where projects will have greatest impact on populations
- What types of restoration actions will have greatest biological benefit

Omak Creek – St. Mary's Mission Small Wood Project

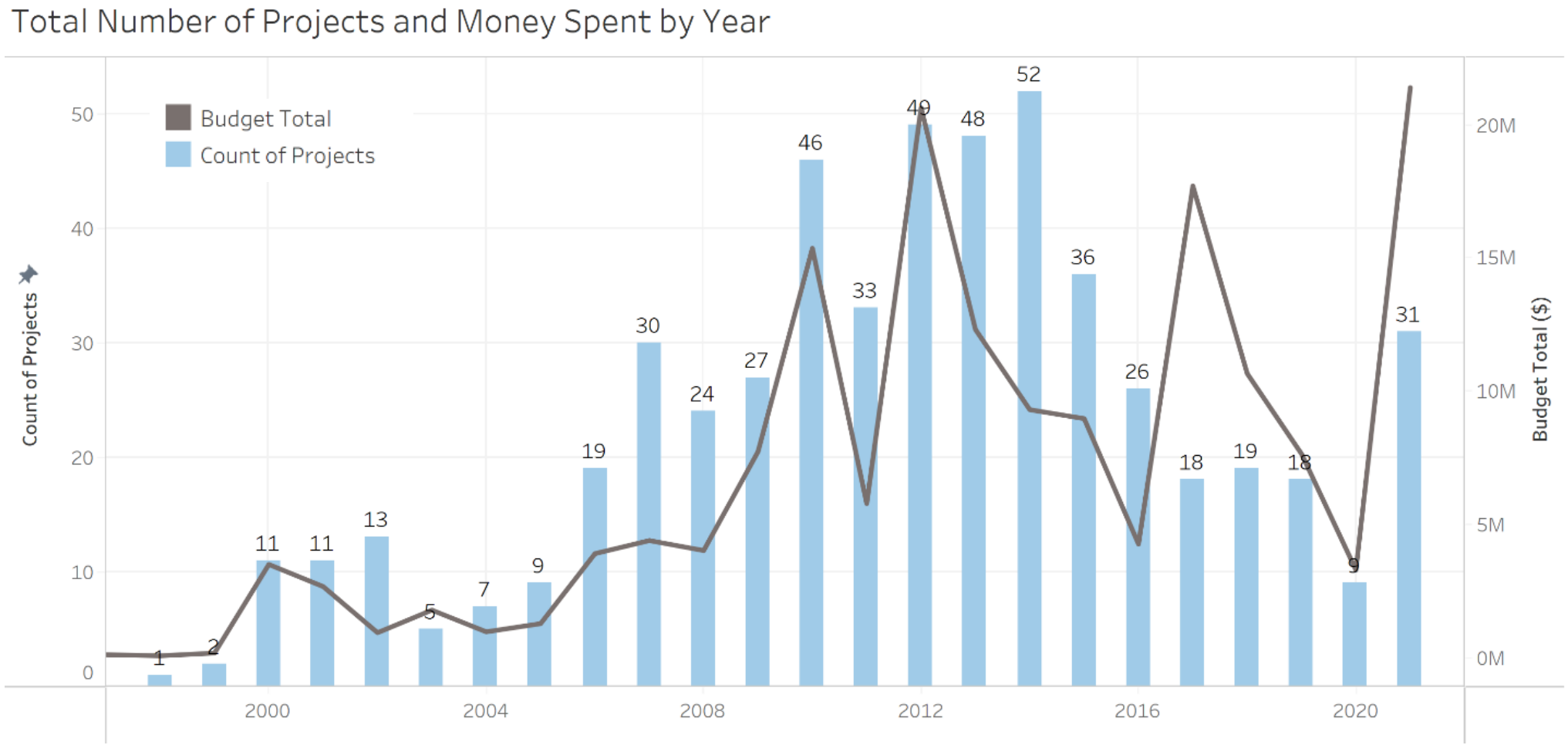
2021 Completed Projects:

- 2 Acquisitions
- 1 Subbasin assessment
- 7 Planning/Design
- 22 Restoration



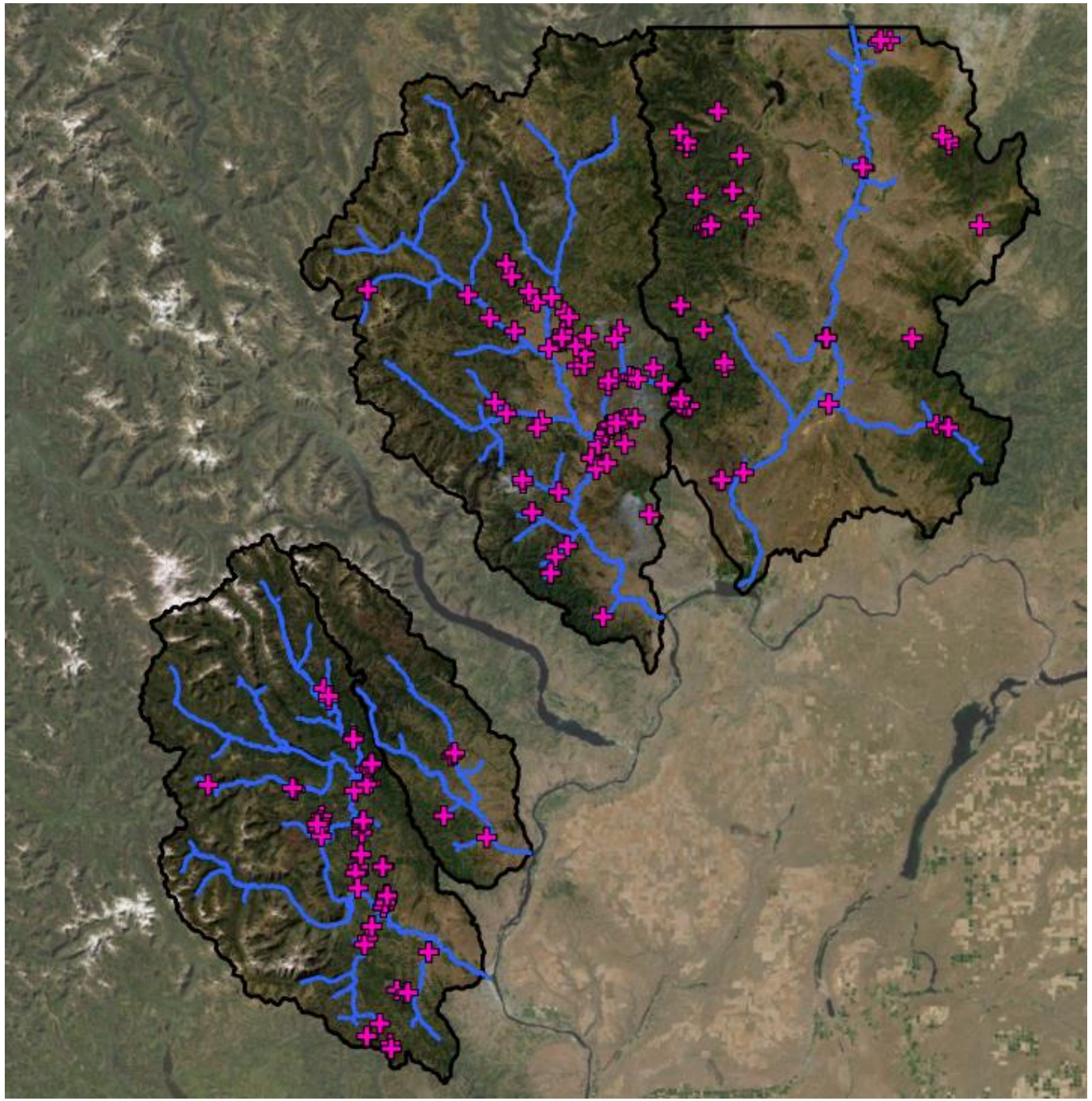
2021 Completed Project summary:

- 31 projects completed
- Total expenditure $21.3 million



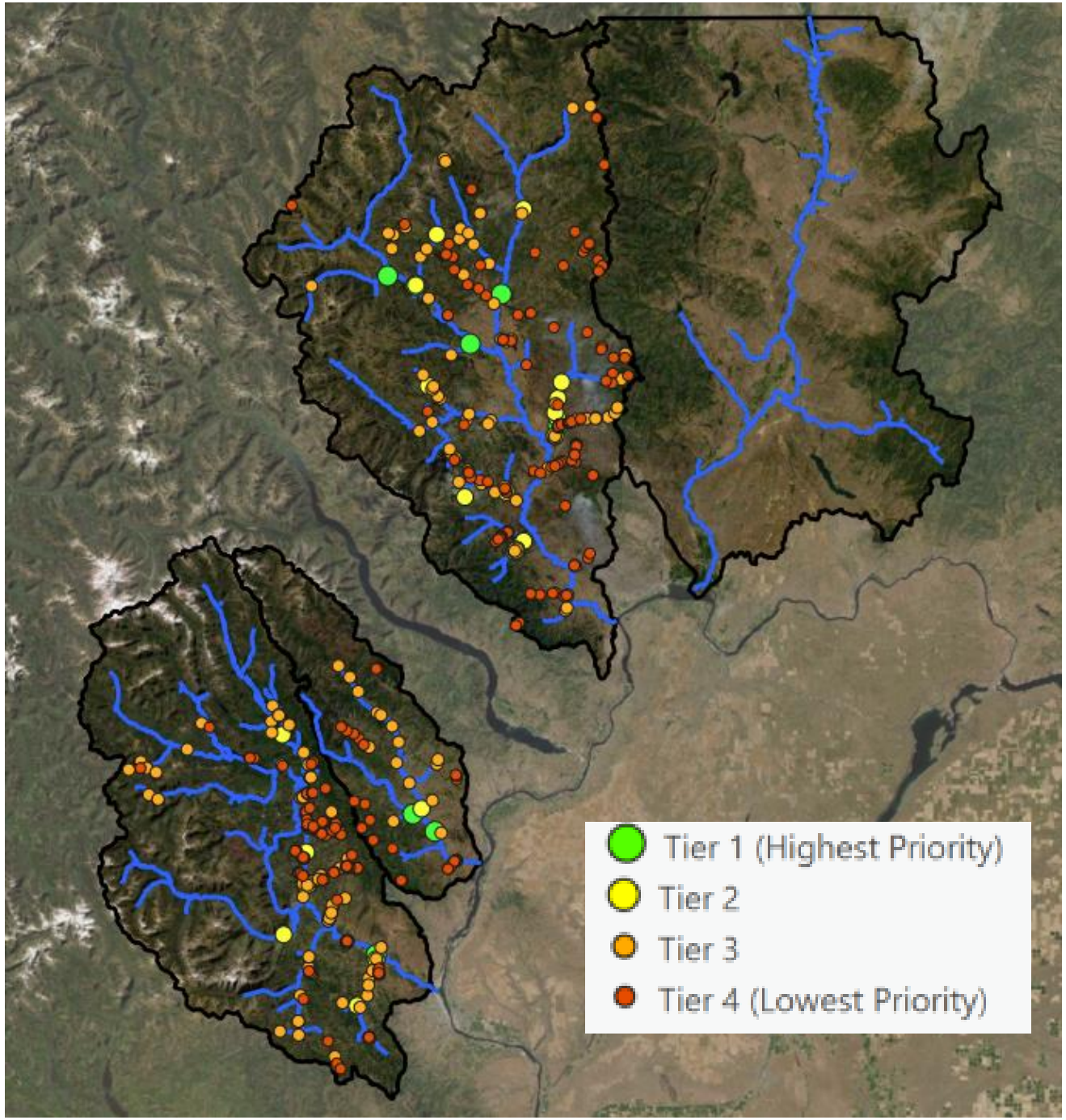
Restore connectivity

TU Johnson Creek Fish Passage Project – State Street



Barriers removed

- Barriers removed = 162
- Miles made accessible = 190



Barrier prioritization tool

- Barriers prioritized based on:
  - Colonization potential
  - Miles of available habitat
  - Barrier severity (% passable)
  - Connectivity (# downstream barriers)
  - Habitat quality
    - Temperature
    - Sediment load
    - Riparian condition


ucsrb.org/science-resources/prioritization/

Break

10 minutes

Developing Recommendations for Habitat

Recommended Action Form

1. Work Group developing the action:
2. Summary of action:
    a. Is this part of an existing program or new program?
3. Benefit: (link to matrices)
    a. What benefit will the action provide?
    b. What data support this?
4. Entities that would implement that action:
5. Timing:
    a. How long will it take to implement that action?
    b. How long until fish populations benefit from action?
6. Stock(s) benefited by the action and magnitude of benefit for each stock(s)
7. Estimated cost:
8. Uncertainties related to the action:
9. Regulatory processes or policies associated with the action:
10. Potential challenges:
11. Adaptive management (describe how this will be incorporated into to action):

General Recommendations for Habitat

Developing Short Term Recommendations

Estuary Habitat Table Biological Criteria for Priority Actions

Stock Status \ Impact Level	Low	Medium	High	Very High
Low	LC SpCH LC Coho MC Sock UC SpCH UC Sock SN SpCH SN Sock	LC Tule FCH LC WSthd Will SpCH Will WSthd UC Sum CH	UC Sum Sthd	
Medium	MC SpCH	LC Sum Sthd MC Sum Sthd SN Sum Sthd	LC Chum	
High	MC Coho	SWW WSthd		
Very High		LC Bright FCH MC FCH UC FCH SN FCH		

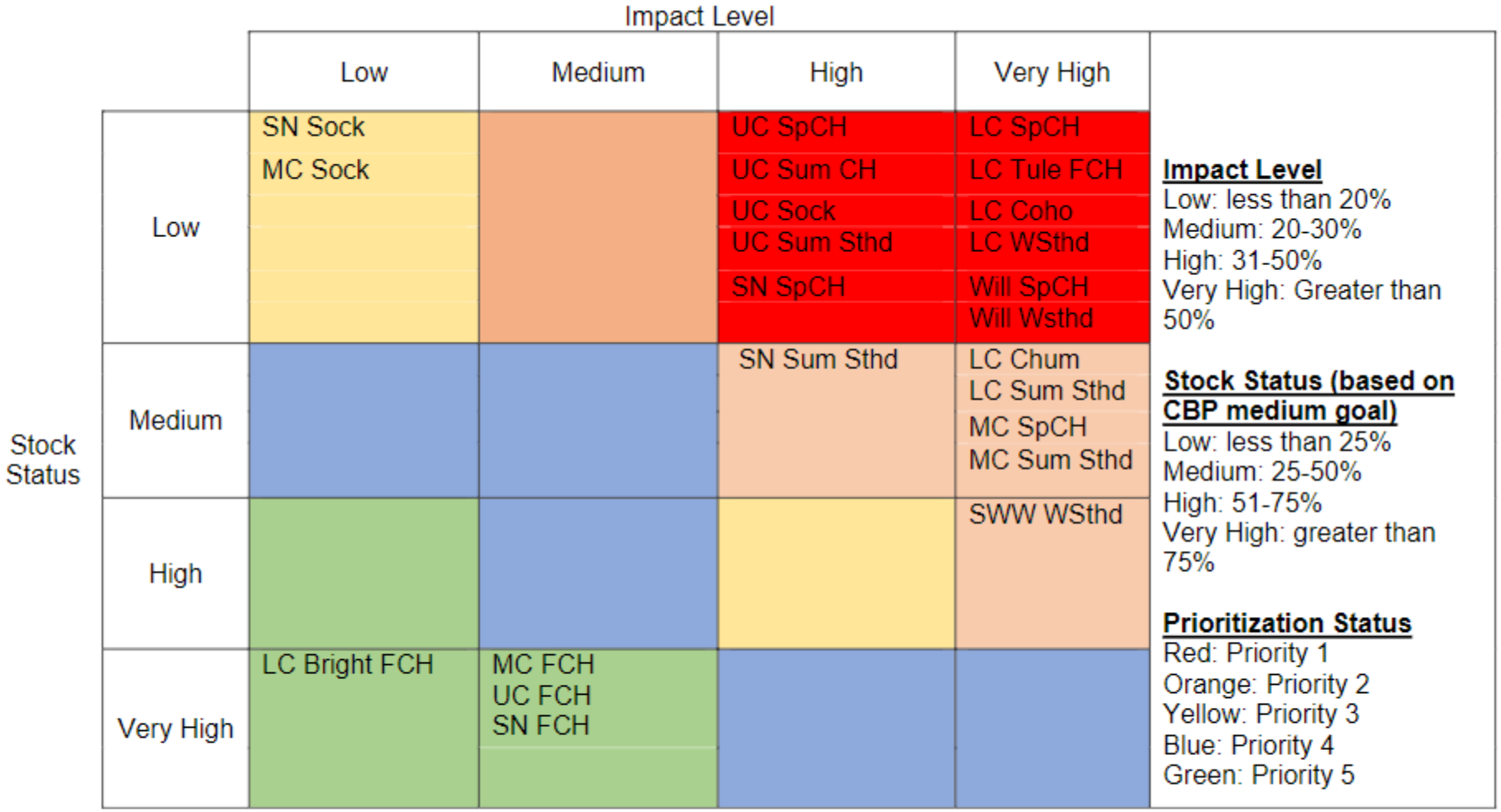
Impact Level
Low: less than 20%
Medium: 20-30%
High: 31-50%
Very High: Greater than 50%

Stock Status (based on CBP medium goal)
Low: less than 25%
Medium: 25-50%
High: 51-75%
Very High: greater than 75%

Prioritization Status
Red: Priority 1
Orange: Priority 2
Yellow: Priority 3
Blue: Priority 4
Green: Priority 5

NA: SN Coho, UC Coho, LC Late BFCH

Tributary Habitat Table Biological Criteria for Priority Actions



NA: LC Late BFCH, MC Coho, SN Coho, UC Coho

Develop Short Term Recommendations

- Immediate actions to restore or maintain habitat for high-impacted stocks? Are those actions existing or new?

- What challenges exist that prevent this actions from occurring?

Next Steps, Upcoming Meeting Topics, and Summary

Next Steps

Upcoming Meeting Topics

- Salmon recovery metrics and mapping tools
- Understanding CEERP
- Landowner incentives (ex: Washington Salmon Coalition)

Thank you ~

Photo credit: Roger Tabor