

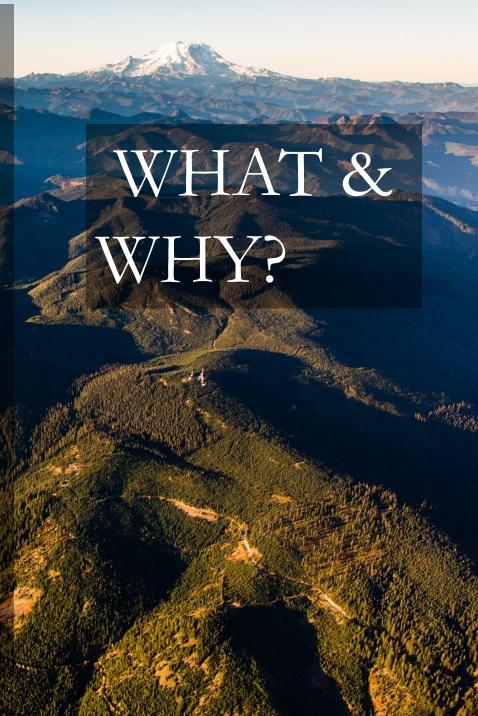
## Manastash – Taneum Resilient Landscape Restoration Project & Coordinated Resilient Communities Project

2017 Tapash Stakeholders Meeting

Presented by: Reese Lolley, The Nature Conservancy, Director Forest Restoration and Fire rlolley@tnc.org

Photo: Benj Drummond

- 1. "Ownership blind"
  Identify and resolve
  barriers, find common
  solutions.
- 2. Collectively identify values, threats, and actions to protect land manager and stakeholder values.
- 3. Increase pace & scale of whole landscape restoration and resiliency.



- 4. Integrate aquatic & terrestrial habitat restoration and management
- 5. Find efficiencies
- 6. Attract additional resources
- 7. Western Cohesive Wildland Fire Strategy
- 8. Be National Leaders

# WESTERN COHESIVE WILDLAND FIRE STRATEGY

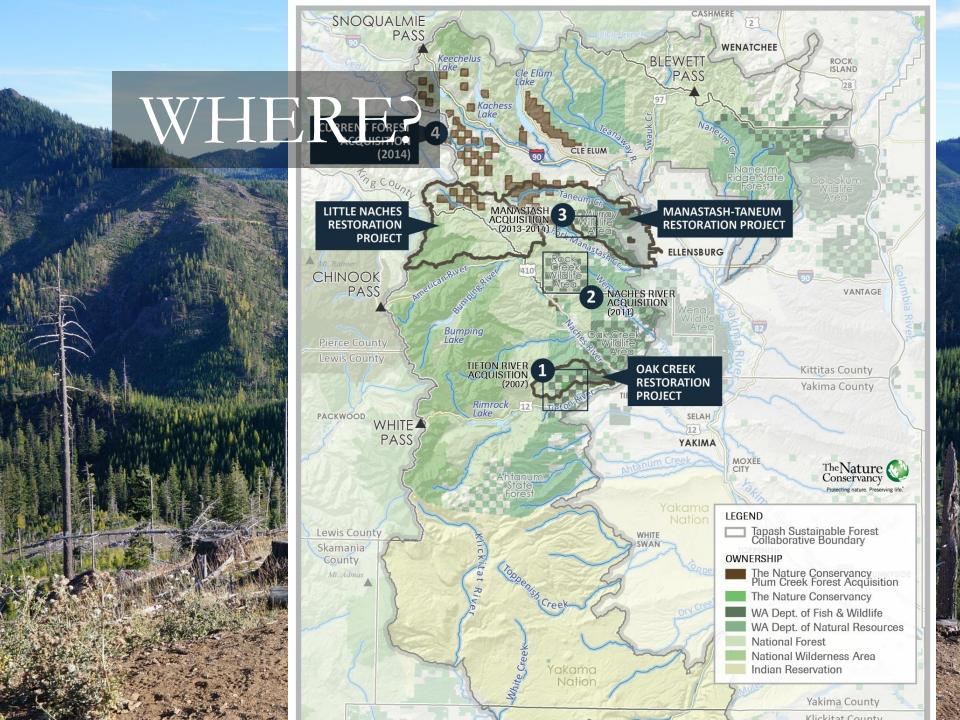


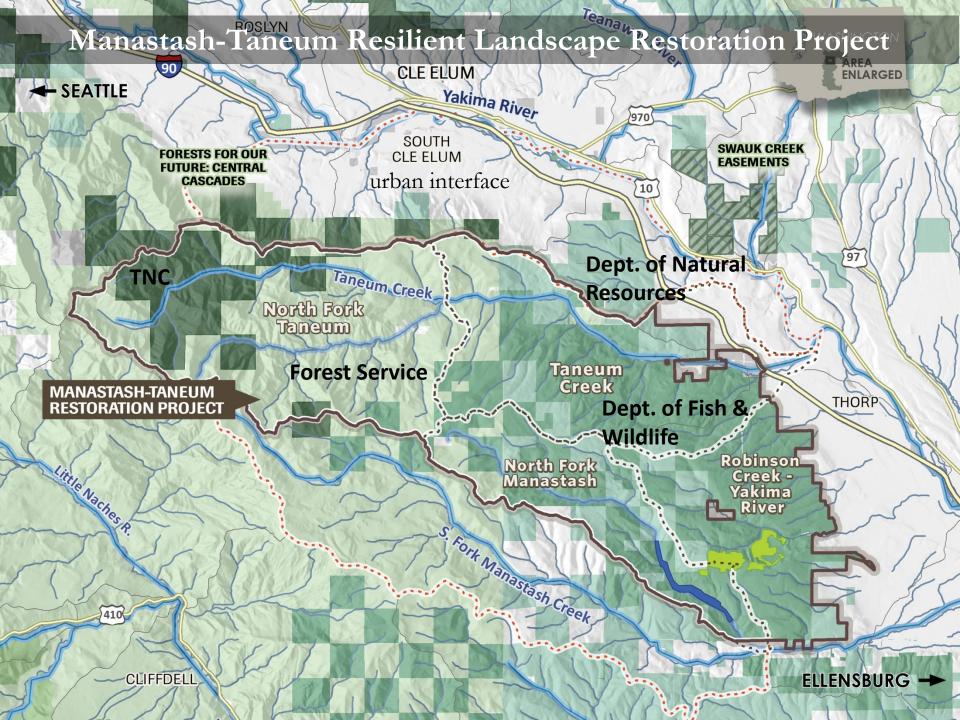
Awbrey Butte Fire 2007, Bend, OR by Oregon Dept of Forestry

RESTORING RESILIENT LANDSCAPES

CREATING FIRE ADAPTED COMMUNITIES

IMPROVING WILDFIRE RESPONSE





## WHO?

### **Project Coordination Lead:**

Reese Lolley

#### Technical Team Leads ------

Ryan Haugo & Bill Gaines 1

#### Land Management Team ------

Non-landowner/non- regulatory partners and stakeholders:

- Mid-C1olumbia Fisheries Enhancement Group
- Conservation Northwest
- Yakima Basin Fish and Wildlife Recovery Board
- AFRC
- WA Resource & Conservation Development Council
- and others...

## Tapash Prioritized Project



Yakama Nation
- Scott Nicolai

- Steve Andringa



NOAA Justin Yeager

US Forest Service Okanagan-Wenatchee National Forest

- Darren Goodding



The Nature Conservancy

USFWS Karl Halupka



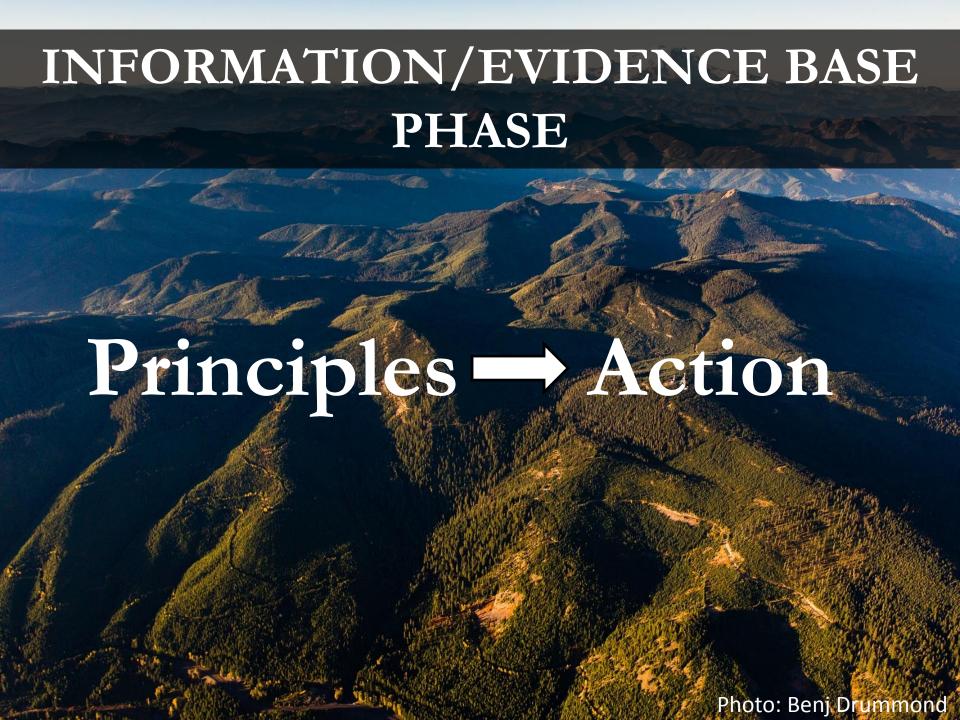
Washington Department of Fish and Wildlife

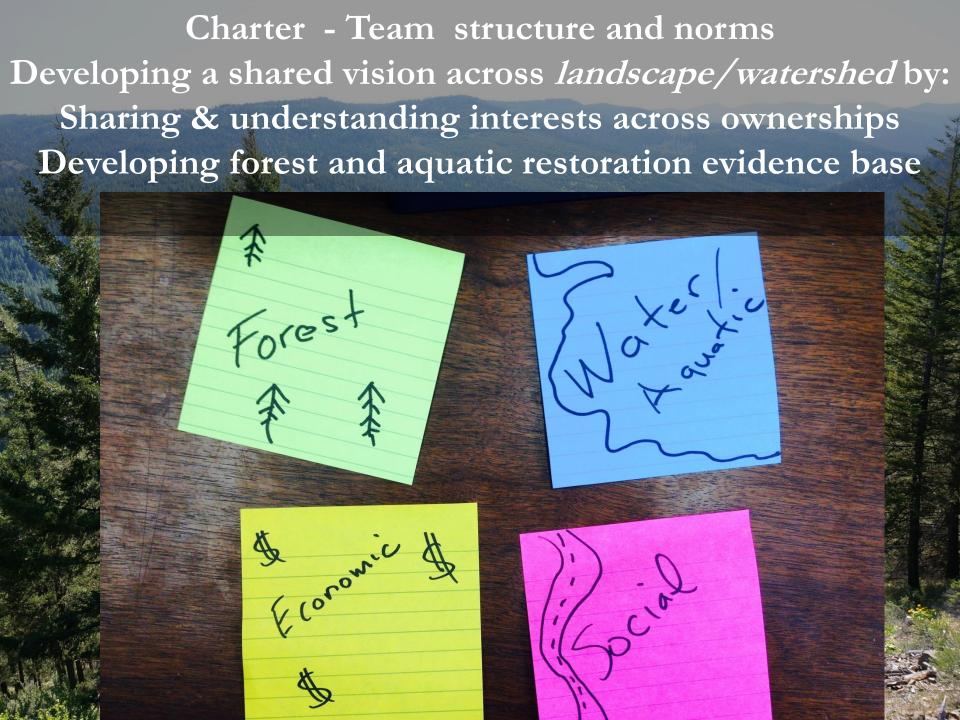
- Melissa Babik
  - Rod Pfeifle

Washington State Department of Natural Resources

- Larry Leach, Joe Smith







## CrossMark

#### REVIEW ARTICLE

## Restoring fire-prone Inland Pacific landscapes: seven core principles

Paul F. Hessburg · Derek J. Churchill · Andrew J. Larson · Ryan D. Haugo · Carol Miller ·

Thomas A. Spies · Malcolm P. North · Nicholas A. Povak · R. Travis Belote · Peter H. Singleton ·

William L. Gaines · Robert E. Keane · Gregory H. Aplet · Scott L. Stephens · Penelope Morgan ·

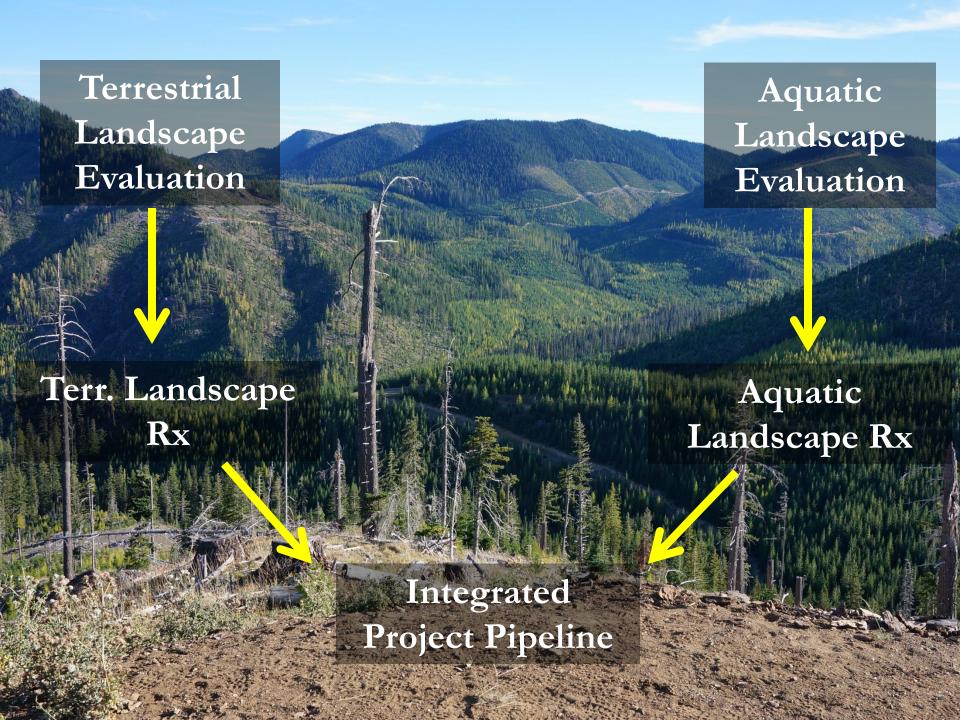
Peter A. Bisson · Bruce E. Rieman · R. Brion Salter · Gordon H. Reeves



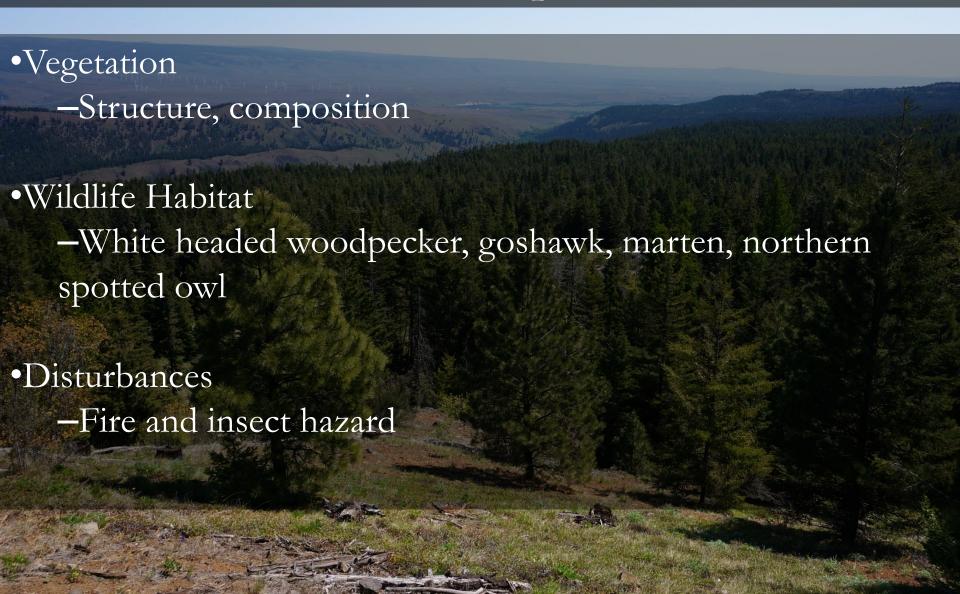
Landscape Ecology Vol.30: 1805-1835 (December 2015)

- 1. Multiple-Scales
- 2. Topography as a guide
- 3. Disturbance process and vegetation patterns
- 4. Patch size distributions
- 5. Tree patterns within patches
  - 6. Large/old trees and snags/logs
  - 7. Work across ownership / management boundaries



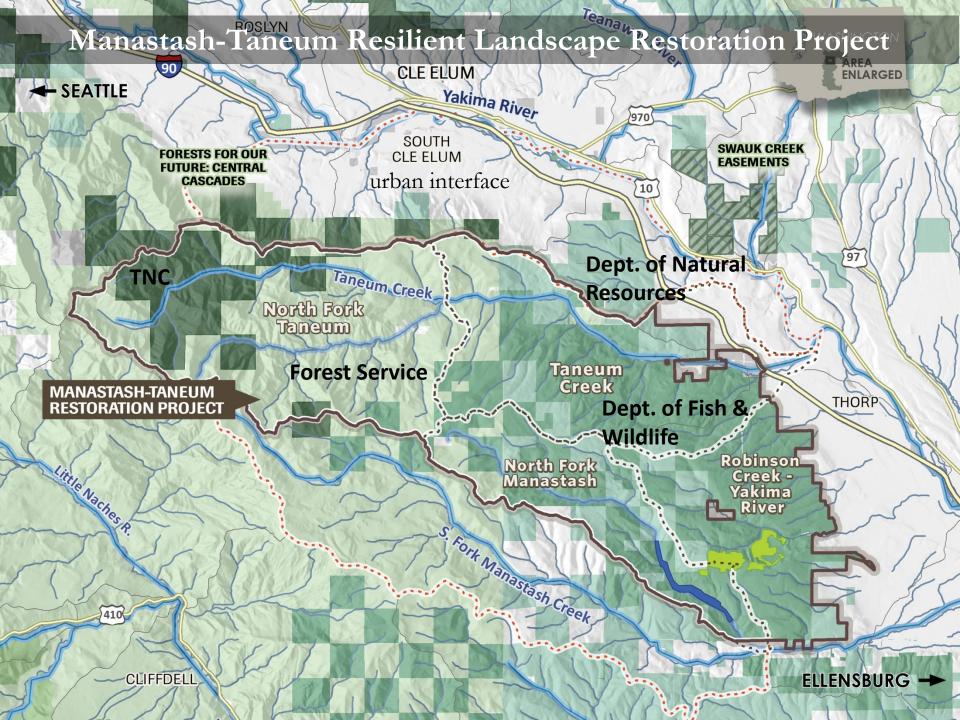


## Terrestrial Landscape Evaluation



## Terrestrial Landscape Evaluation





## The Nature Conservancy **MANASTASH-TANEUM** RESILIENT LANDSCAPE RESTORATION PROJECT Protecting nature. Preserving life. North Fork Creek South Fort Tensun Creek Robinson Creek-Yakima PI Forest/Non-forest C - Thinning for mult-layer MAP LEGEND **Owner: WA Dept of Natural Resources** Watersheds not in Project Area (USGS HUC 12) **Owner: US Forest Service** Absolute Scale Owner: WA Dept of Fish and Wildlife Owner: The Nature Conservancy 1:150,000







#### Manastash-Taneum Resilient Landscapes Project: Landscape Evaluations and Prescriptions



Ryan Haugo<sup>1</sup>, William Gaines<sup>2</sup>, James Begley<sup>2</sup>, James Robertson<sup>1</sup>, Derek Churchill<sup>3</sup>, James Dickinson<sup>4</sup>, Reese Lolley<sup>1</sup>, Paul Hessburg<sup>5</sup>,

March 2016





<sup>1</sup>The Nature Conservancy, Seattle, WA, <sup>2</sup>Washington Conservation Science Institute, Wenatchee, WA, <sup>3</sup>University of Washington, Seattle, WA, <sup>4</sup>US Forest Service Okanogan-Wenatchee National Forest, Wenatchee WA, <sup>5</sup>US Forest Service Pacific Northwest Research Station, Wenatchee, WA







# SCOPE, PLAN, FUND PROJECTS

	PHASE				
Title	Source	Admin.	Submitted	Funded	
LT Murray Forest Habitat and Aquatics Enhancement #14-1355	RCO-WWRP (State)	DFW	2014	\$375,000	

**DNR Landscape Scale** Manastash Taneum Resilient Landscape Restoration, Western \$300,000 **TNC** 2016 **Restoration Project Competitive Grant** 

(Fed)

Joint Chefs -

**NRCS/Forest Service** 

(Fed.)

Joint Chefs -

**NRCS/Forest Service** 

(Fed.)

**BPA** (Private)

State Legislative

Request

FS/NRCS

FS/NRCS

Yakama

DNR

FS \$1.468m;

\$580,000

**NRCS** 

FS \$1.6m;

\$665,000

NRCS;

\$1.225m S&P

\$500,000

?\$600,000

2016

2017

2017

2017

All Lands, All Hands: Building Resilient

Landscapes and Fire Adapted

Communities in Washington's East

Cascades

All Lands, All Hands: Building Resilient

Landscapes and Fire Adapted

Communities in Washington's East

Cascades

Forest and Aquatic Floodplain Restoration

**DNR RFP Funding Request** 

#### LANDSCAPE SCALE RESTORATION The Nature Conservincy **PROPOSAL - MANASTASH TANEUM** Cle Elum Lake Roslyn Clc Elum Yakima River Cle Elum Morth fork Tangum Thorp Taneum Creek Robinson Creek -Yakima River Manastash 410 PROPOSED TREATMENT AREAS Robinson CANADA Hutchins AREA ENLARGED LEVERAGE TREATMENT AREAS Taneum, Wild Plum, Cedar Creek, Plumback WASHINGTON February 29, 2016 MAP LEGEND OWNERSHIP Manastash-Taneum Washington Dept. of Natural Resources National Wildemess The Nature Conservancy Resilient Landscape National Forest Watershed Boundary Other Public Lands The Nature Conservancy Watershed Boundary Washington Dept. Easement Other Private Lands of Fish & Wildlife (South Cle Elum)



#### PROJECT STATUS AND RECENT ACCOMPLISHMENTS

WashingtonNature.org Tapash.org

In fiscal year 2016, an array of treatments were completed by the Tapash Collaborative and partners in order to improve forest health and aquatic conditions, including:

- 5 acres floodplain improvement for Taneum Creek Road 3300 realignment (USFS)
- Fish passage improvements including removal of fish blockages, fence removal, flood debris repositioning (DNR, Yakama and WDFW)
- 0.75 miles in-stream wood replenishment completed (WDFW lands)
- 73,000 trees planted on 550 post-burn acres (TNC)

- 15 acres non-commercial thinning in uplands adjacent to streams (Yakama Nation/WDFW)
- 573 acres commercial timber harvest (DNR)
- 1,243 acres of Commercial Harvest Pre-Sale Layout (WDFW)
- 6 miles shaded fuel break, contract awarded for work in 2017 (DNR)
- 17 acres of land purchased along Taneum Creek floodplain (WDFW)
- 181 acres layout for 2017 pre-commercial thin (WDFW)

- Funding Awarded by Washington Wildlife and Recreation Program for 950 acres of forest thinning, and helicopter placement of large wood for floodplain restoration, North Fork Manastash Creek (WDFW/TNC/Yakama Nation)
- Adjacent greater Cle Elum Fire Adapted Communities kickoff meeting of 8 local organizations to discuss workplan for reducing community wildland fire risk

#### TAPASH PARTNERS:

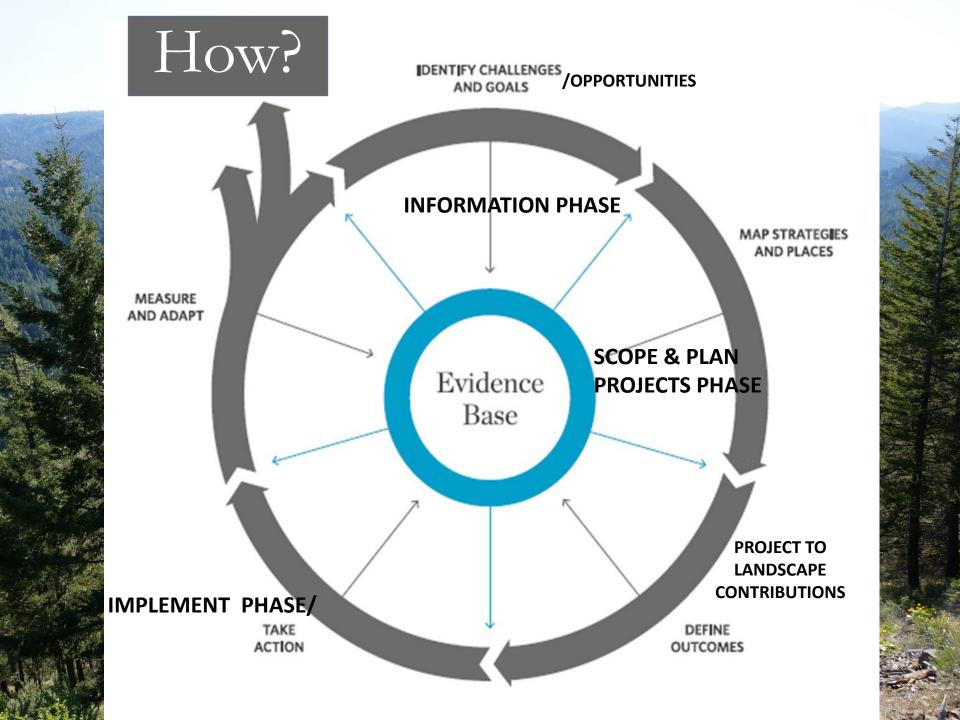






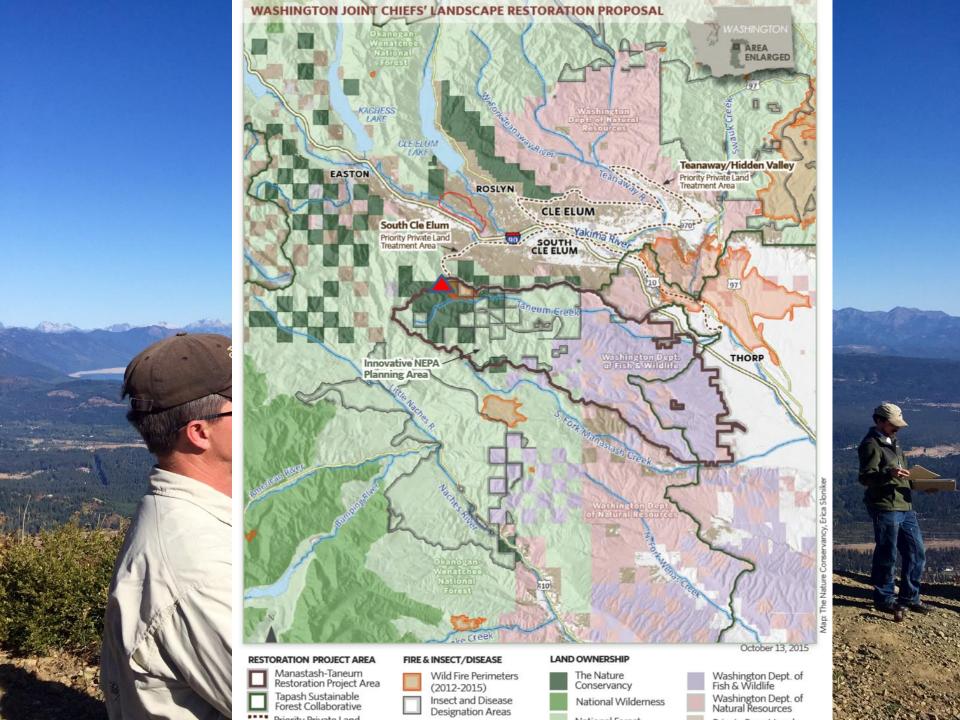




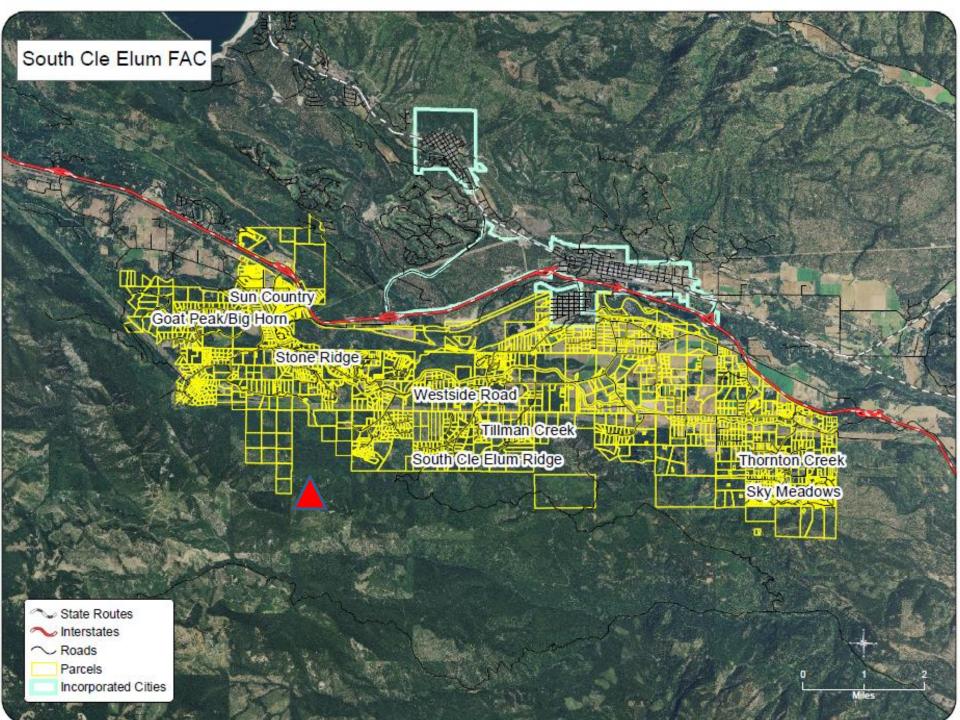


## Coordinated Resilient Communities Project

- Cle Elum Ranger District
- Kittitas County Conservation District
- Kittitas Fire District Seven
- Natural Resource Conservation Service
- Nature Conservancy
- Wa. Department of Natural Resources/ Private Lands Assistance
- Wa. Dry Forest Fire Learning Network
- Wa. Fire Adapted Communities Learning
- Network
- Wa. Resource Conservation and Development Council









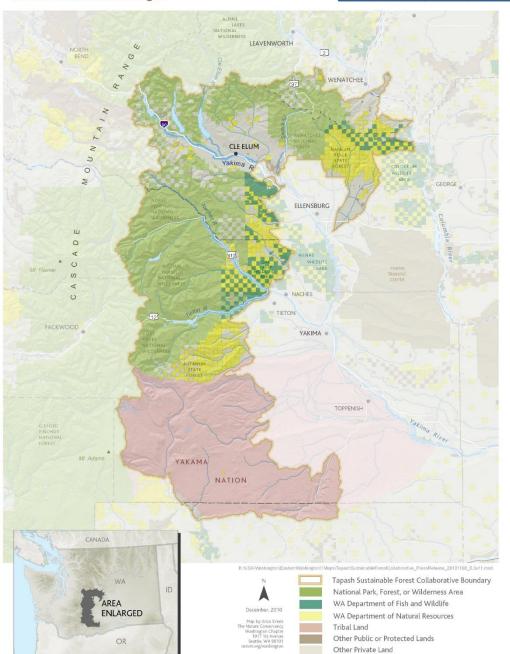




#### Tapash Sustainable Forest Collaborative

East Cascades, Eastern Washington

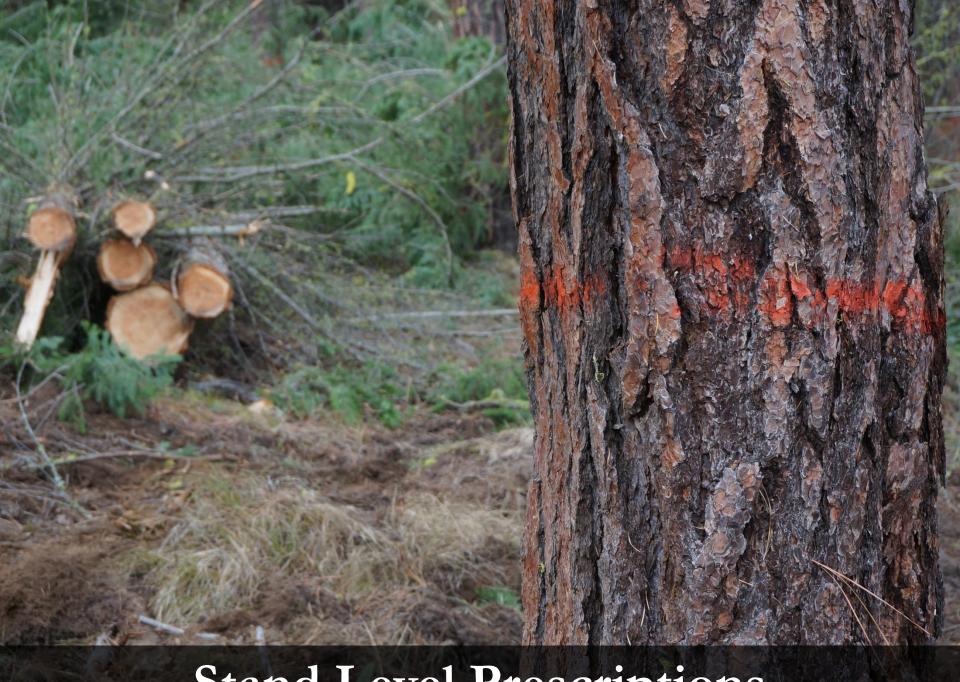








Tapash ICO Workshop



Stand Level Prescriptions

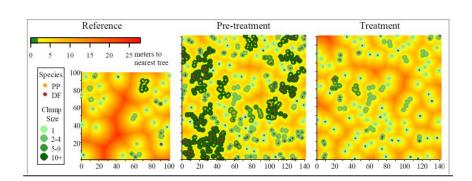




The ICO Approach to Quantifying and Restoring Forest Spatial Pattern

### Implementation Guide

Version 2.0. November 2013





## Aquatic Landscape Evaluation

- 1. Road & Stream Data Rectification
- 2. Map Floodplains
- 3. Intrinsic potential habitat (steelhead)
- 4. Assess Road Stream Interactions
- 5. Cold Water Refugia
- 6. Field Review
- 7. Restoration Opportunities





United States Department of Agriculture

Forest Service

Pacific Northwest Region



The Okanogan-Wenatchee
National Forest
Restoration Strategy: adaptive
ecosystem management to
restore landscape resiliency

#### 2012 Version

Okanogan-Wenatchee National Forest November 2012





Timeline	Winter/ Spring	Summe r /Fall	2015	2016	2017	
	14	14				
Team Formation for Stages	xxxxxxx	xxxxxx				
Funding Solicitation	XXXXXXX	xxxxxxx xxx	XXXXXX	XXXXXX	XXXXXX	
<ol> <li>Information/Evidence Base Phase</li> </ol>	xxxxxxx					
<ul><li>- Aerial Photo Interpretation</li><li>- Attribute ID GIS layers</li></ul>	xxxx	xxxx				
- Verification		xxxx	xxxx	xxxx	xxxx	
<ul><li>2. Scope, Fund, Plan Projects</li><li>Coordination</li></ul>		xxxxxxx x	xxxxxxx	xxxxxx	xxxxxx	
4. Implementation		xx	xxxxxxxxx	xxxxx	xxxxxx	
5. Implementation Monitoring			XX	xxxxxx	xxxxxx	