

# **Presentation Overview**





**Planning** 

Prioritization

**Technical Assistance** 



## Why Plan?

# Goal is to accomplish something

### **Stay on track**

A good base plan allows you to see where you are on- or off-track and make timely corrections

### **Adapt**

Helps you anticipate and prevent issues, and deal with them when necessary

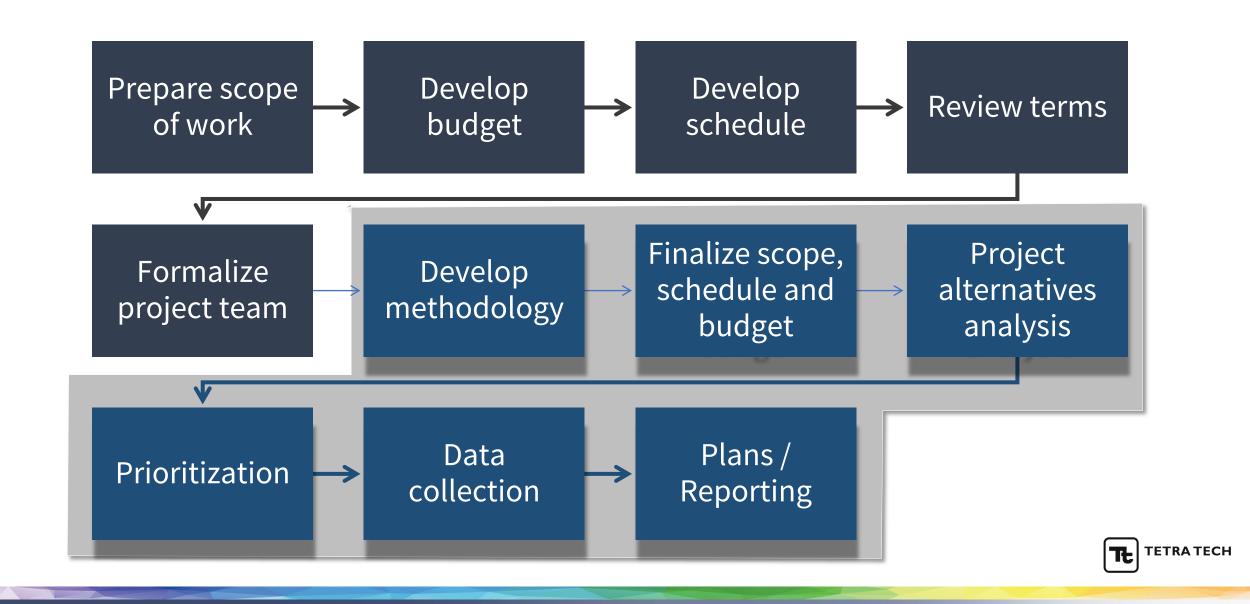
### Money

Doing things costs something! It is easier to change things on paper

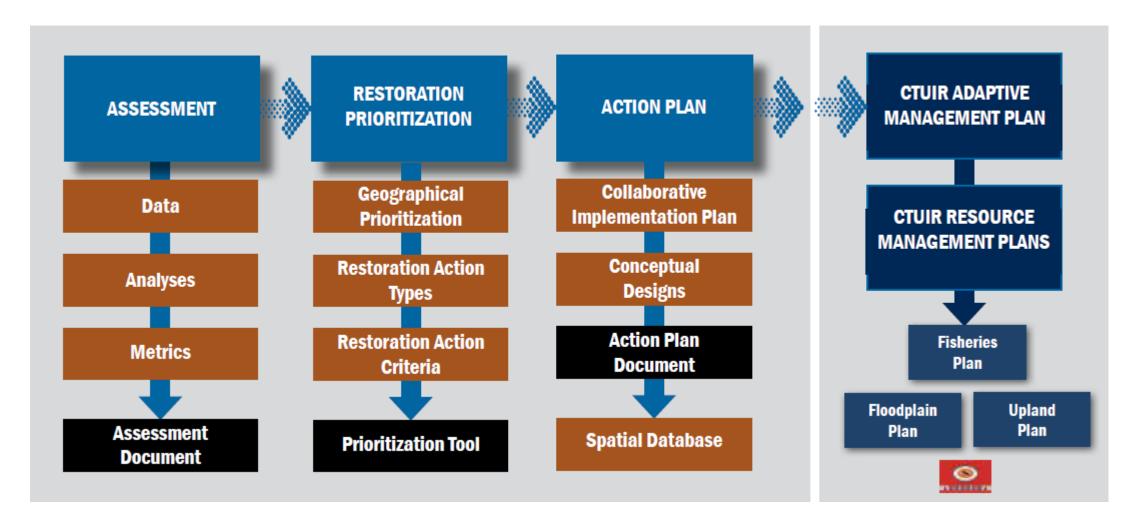




# Planning Process Overview



# Watershed Planning Example







## Why Prioritize?

# Goal is to focus on what is important

### **Efficient use of time**

Prioritization ensures you are working towards the things that will move things forward

### Locations

Identifies where is the highest potential to achieve goals, objectives, and priorities

### **Evaluates**

Doing things costs something! It is easier to evaluate things on paper

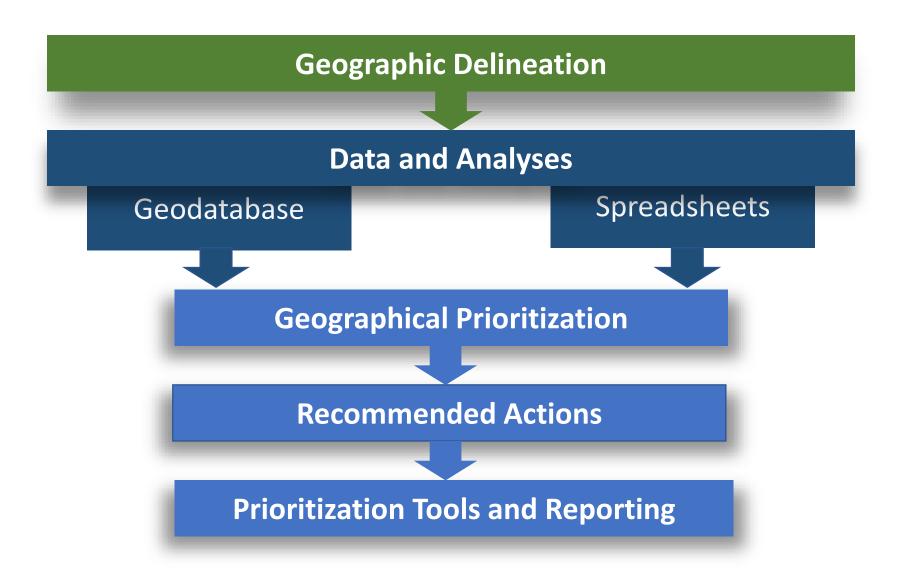
### **Funding**

Required to get money...show your work!





### **Prioritization Process Overview**





# Geographic Prioritization Example

					Geomorph	nic, Habitat,	and Water					
		Fish Use Scoring				uality Scori		Change Impact Scoring			RESULTS	
Watershed Name	Subwatershed Name	Score Based on Historic Number of Life Stages	Score Based on Current Number of Life Stages	Score based on Potential Number of Restored Life Stages	Score Based on Geomorphic Potential	Score Based on Habitat Potential	ة Score Based on Water Quality Potential	Score Based on Fish Limiting Life Stage Use	Score Based on Climate Change Resiliency Potential	Score Based on Potential Fish Production	Cumulative Score	Ranking (Tier I,II,III)
	Coyote Creek	2	2	0	5	15	5	2	13	10	53	Tier III
	Lower Beaver Creek	18	18	0	15	15	8	11	20	15	119	Tier I
Beaver Creek	Middle Beaver Creek	18	18	0	15	15	10	11	10	15	112	Tier I
	Quartz Creek	0	0	0	15	20	3	0	10	5	53	Tier III
	Upper Beaver Creek	15	15	0	15	20	10	11	10	15	110	Tier I
	Lower Metolius River	18	6	12	0	5	3	5	8	15	71	Tier III
Lower Metolius River	Middle Metolius River	18	8	9	0	3	3	5	8	15	69	Tier III
Lower Metorius River	Upper Metolius River	18	8	9	0	5	3	4	8	15	70	Tier III
	Whitewater River	15	5	9	0	5	3	2	3	10	51	Tier III
	Lower Mil Creek	20	20	0	0	3	5	8	13	10	78	Tier II
Mill Creek	Middle Creek-Boulder Creek	5	5	0	15	20	8	3	3	10	69	Tier III
	Upper Mil Creek	20	20	0	15	18	3	10	10	20	115	Tier I
	Box Canyon	5	0	5	0	10	3	0	10	5	38	Tier III
Seekseequa Creek-	Lake Simtustus - Deschutes River	18	3	15	0	3	3	1	13	10	65	Tier III
Deschutes River	Seekseegua Creek	9	0	9	10	13	3	0	13	15	71	Tier II
	Dry Creek	2	2	0	10	18	3	2	13	5	54	Tier III
	Lower Shitike Creek	20	20	0	10	18	18	11	13	20	129	Tier I
Shitike Creek-	Peton Dam - Deschutes River	18	9	12	0	10	8	3	13	15	87	Tier II
Deschutes River	Upper Shitike Creek	20	16	4	15	13	5	8	10	20	111	Tier I
	Webster Flat - Deschutes River	18	18	0	0	10	8	7	13	15	88	Tier II
Upper Metolius River	Jefferson Creek	15	9	9	0	3	3	2	8	15	63	Tier III
	Badger Creek	15	15	0	20	20	5	6	13	10	103	Tier I
	Bunchgrass Creek - Warm Springs River	20	16	4	5	13	3	8	3	15	86	Tier II
	Dry Creek - Warm Springs River	5	5	0	20	13	5	2	15	15	80	Tier II
	Hehe Butte - Warm Springs River	20	20	0	15	8	3	10	15	15	105	Tier I
Warm Springs River	Indian Head Canyon - Warm Springs River	17	17	0	0	13	5	9	13	15	88	TierII
	Kahneeta Hot Springs - Warm Springs River	17	17	0	5	13	13	9	15	20	107	Tier I
	Mill Creek Canal	0	0	0	15	10	3	0	10	5	43	Tier III
	South Fork Warm Springs River	15	11	4	20	13	5	7	10	15	99	Tier II
	Big Cove - Deschutes River	16	16	0	0	13	5	7	18	10	84	Tier II
		5	5	0	0	13	15	3	18	15	74	Tier II
White Horse Rapids-	Eagle Creek	16	16	0	0	10	5	7	15	10	7 <del>4</del> 79	Tier II
Deschutes River	Little Cove - Deschutes River	5	5		0	20	10	3	13	15	79	Tier II
	Nena Creek	5	5	0				3				
	Rice Creek	5	) 5	U	15	15	10	3	13	15	81	TierII



# Prioritizing Actions Example

	<u> </u>	<u> </u>
Series 1 Name	RPB Group	RPB Value (0-3)
	Chinook Area Score	2
Restoration Potential Benefit (RPB)	Bull Trout Area Score	0
	Steelhead Area Score	3
Series 2 Name	Freshwater Life History Stage Improved	Fish Use Identified In Distribution Layer For The Project Area (Yes=1, No=0)
	Chinook Spawning	0
	Chinook Migration	0
	Chinook Juvenile Rearing	0
	Steelhead Spawning	1
Freshwater Life History Stage	Steelhead Migration	
, ,	Steelhead Juvenile Rearing	
	Bull Trout Spawning	0
	Bull Trout Migration	
	Bull Trout Rearing	0
Series 3 Name	Limiting Factors	Limiting Factor Identified In This Reach (Yes=1, No=0)
	Degraded Floodplain Connectivity and Function	1
	Degraded Channel Structure and Complexity	1
	Degraded Riparian Areas and LWD Recruitment	1
Limiting Factors Analysis	Altered Hydrologic Processes	1
	Degraded Water Quality (Temperature)	1
	Altered Sediment Routing	1
	Impaired Fish Passage	1
Series 4 Name	JDR Watershed Restoration Action Groups	Project Restoration Actions (1=Yes, 0=No)
	Acquisition/Conservation Agreements	
	Acquisition of Water Rights	
	Best Management Practices of Land Uses	
	Best Management Practices of Water Uses	1
	Education and Outreach	
	Fish Passage (Main and Off-Channnel)	1
JDR Watershed Restoration Actions Rank	Connect Main Channel to Floodplain	
JUH Watershed hestoration Actions Hank	Provide Bedload/Large Wood Transport Connection	
	Restore Native Plant Communities	
	Restore Natural Hydrologic Regime	
	Restore Riverine Processes	
	River Channel Modifications and Complex Structures	1
	River Bank Stabilization	1
	Side Channel Enhancement	

Series 10 Name	Project Types ₩ith Landowner Benefit	Project Types (2 = Primary [One Only]; 1 = Secondary; 0 = NA)
	Irrigation Diversion Improvements	
	Irrigation Diversion Improvements	2
	Consolidationg Points of Diversion	
	Water Efficiency Measures	
	Conveyance/Ditch Piping/ Delivery Effciency	1
	Pivots/Sprinklers/Application Effciency	1
	Soil Moisture Management	
	Water Measurement Tools	
	Bank Stabilization	
	Streambank Stabilization	1
	Management of Flood Debris	1
	Upland Improvements	
	Juniper Removal	
	Public Lands Pasture Fence	
	Private Lands Pasture Fence	
	Water Source - Spring Development	
	Invasive Weed Control	
	Reseeding/Revegetation	
	Return Flow Cooling System	
	Return Flow Cooling System	
	Road Crossing Improvements	
Landowner Project Benefits	Culvert Replacements	
	Ford Improvements	1
	Riparian Improvements	·
	Juniper Removal	
	Public Lands Fencing	
	Private Lands Fencing	
	Planting	
	Invasive Weed Control	
	Off-Channel Water Source	
	Sediment/Water Control	
	WaSCB - Check Dams	
	Forest Health	
	Forest Health - Function	
	Water Storage	
	<u>water Storage</u> Water Storage for Irrigation	
	water Storage for Irrigation Conversion to Ground Water/well	
	Conversion to Ground water/well  Conversion to Ground water/well	
	Cropland Management	
	Terraces, Filter Strips, Alternate Crops, Less Tillage	
	₩ildlife Improvements	
	Vegetation Establishment, Aspen	



# Prioritizing Projects Example

	Examples Scores									
	Moon	Reynolds	Starr	Rowe Cr	JDR Obrist	Fox	JDR Jacobs	MFJD TNC	Painted Hills	Indian Cr
Series 1	5	9	5	2	2	5	9	9	6	4
Series 2	14	23	13	6	14	12	10	36	16	9
Series 3	12	12	30	30	26	21	11	26	10	9
Series 4	5	5	15	18	25	25	11	24	14	3
Series 5	7	7	8	14	10	18	9	18	15	9
Series 6	10	10	3	14	5	11	9	11	19	12
Series 7	2	2	2	2	2	2	2	3	3	2
Series 8	0	0	0	0	0	0	0	0	1	6
Series 9	0	0	0	0	0	0	5	0	0	5
Series 10	21	16	16	23	9	14	13	6	15	16

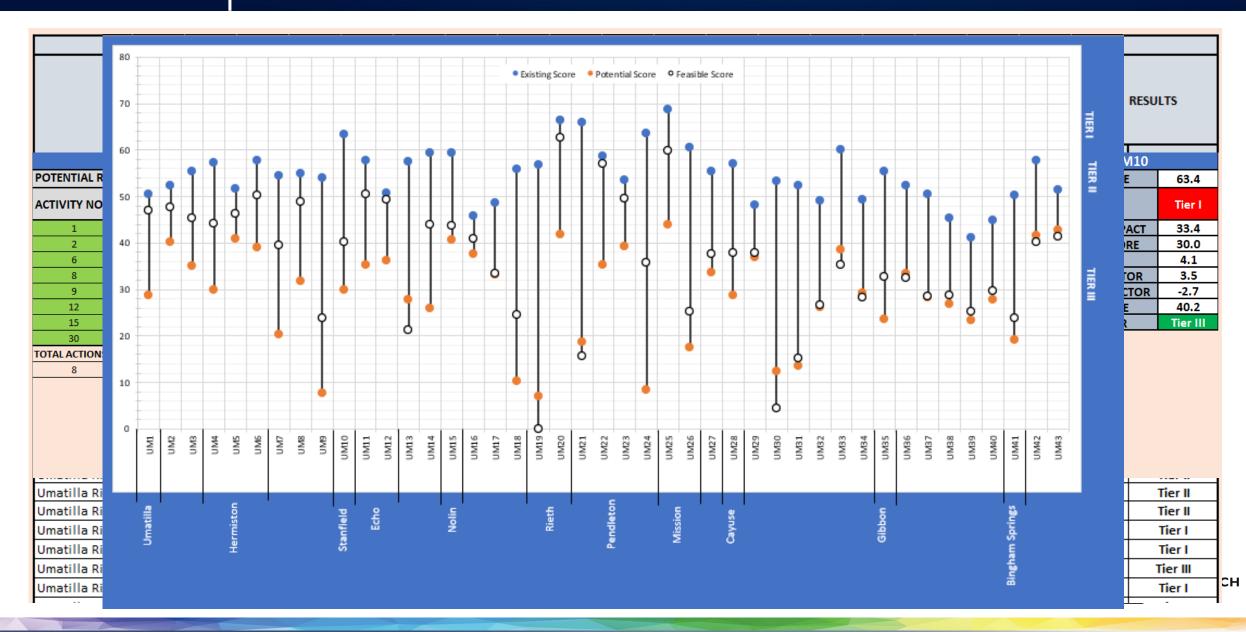
Series 1-6, Biological Score (total possible = 178 points)
Series 7-9, Plans, Cost Share, Investment Score (total possible = 25 points)
Series 10, Landowner Score (total possible = 71 points)
Total Score (total possible = 274 points)

											Mean	Min	Max
ts)	53	66	74	84	82	92	59	124	80	46	76	46	124
s)	2	2	2	2	2	2	7	3	4	13	4	2	13
s)	21	16	16	23	9	14	13	6	<b>1</b> 5	16	15	6	23
s) [	76	84	92	109	93	108	79	133	99	75	95	75	133

Mean		
biological	Mean total	
scores of	scores of	
61	83	= Diversions, single structures
91	107	= Habitat



## Prioritization Tool Example 1



# Prioritization Tool Example 2

	Alternative 1	Alternative 2	Alternative 3		
Avulsion & Community Safety	Flow redirection using LWD structures and side channel reactivation; bank laybacks and bioengineering; relocation of Mora Road	Flow redirection using LWD structures, log revetments, and side channel reactivation; bank laybacks and bioengineering	Launchable rock revetments		
Salmonid Habitat	In-channel and off-channel habitat; LWD habitat structures; side channels and alcoves; bioengineered banks; passage barrier removal	Main and side channel habitat; side channel reactivation; bioengineered banks; culvert replacement	Culvert replacement; does not include restoration or enhancement of aquatic habitat		
Flood Attenuation	Full reactivation of the oxbow; floodplain reconnection; bank laybacks	Partial reactivation of the oxbow; some floodplain reconnection; bank laybacks	Channel capacity and floodplain connectivity remain unchanged		
Fishing Access	Creation of fishing access locations; Thunder Field Road improvements; walking trails	Creation of fishing access locations; Thunder Field Road improvements	Creation of fishing access locations; Thunder Field Road improvements		
Cultural Access	Flow redirection and stabilization at Thunder Field; Thunder Field Road improvements; fisheries access; restoration of terrestrial and aquatic habitat	Flow redirection and stabilization at Thunder Field; Thunder Field Road improvements; fisheries access; enhancement of aquatic habitat	Bank stabilization at Thunder Field; Thunder Field Road Improvements; fisheries access		
Climate Resiliency	Use of deformable and bioengineering elements; increase in natural flood attenuation; reconnection of side- and high-flow channels	Use of deformable and bioengineering elements; some increase in natural flood attenuation; some reconnection of side- and high-flow channels	Protects Thunder Field and Mora Road with launchable rock revetments		

Benefits:

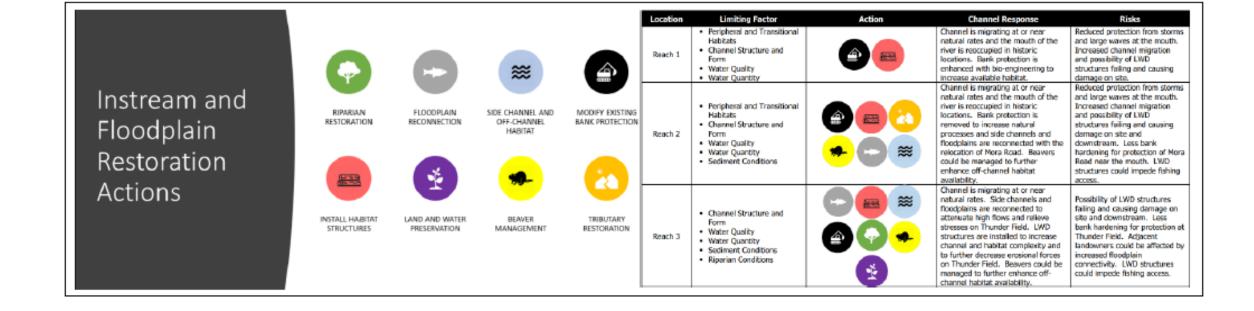








# Prioritization Tool Example 3





# Prioritization Application Example 1

### Location

#### Umatilla River Reach 13

River Mile 27.2—31.5 Between Echo and Nolin Priority: **Tier I** 

#### Umatilla River Reach 21

River Mile 51.3—52.6 Between Rieth and Pendl Priority: **Tier I** 

#### Umatilla River Reach 25

River Mile 57.9—60.1
Between Pendleton and Miss
Priority: Tier I

#### Umatilla River Reach 26

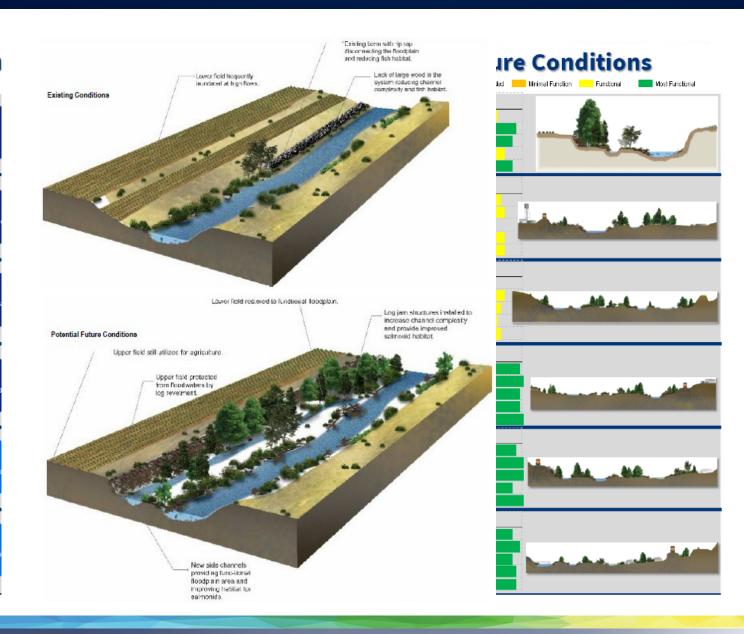
River Mile 60.1—62.8 Between Mission and Gib Priority: **Tier I** 

#### Umatilla River Reach 30

River Mile 68.2—69.9 Between Mission and Gib Priority: Tier II

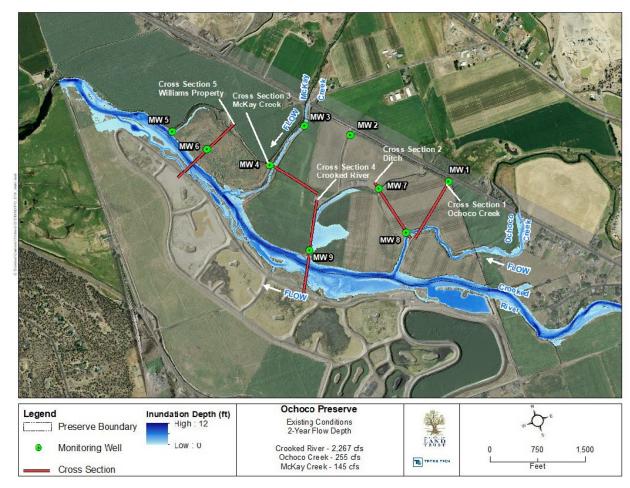
#### Umatilla River Reach 31

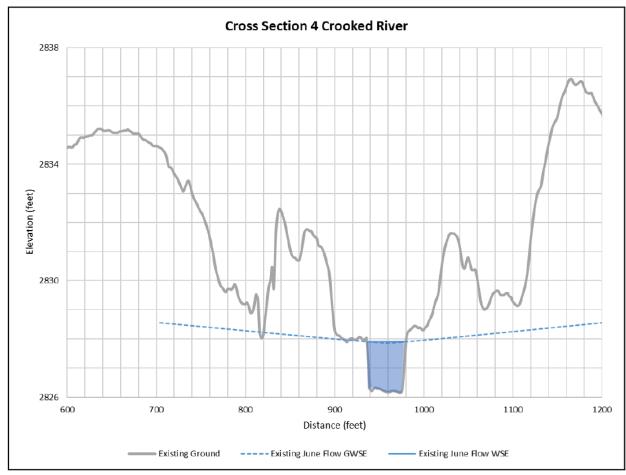
River Mile 69.9—71.3 Between Mission and Gib Priority: **Tier II** 





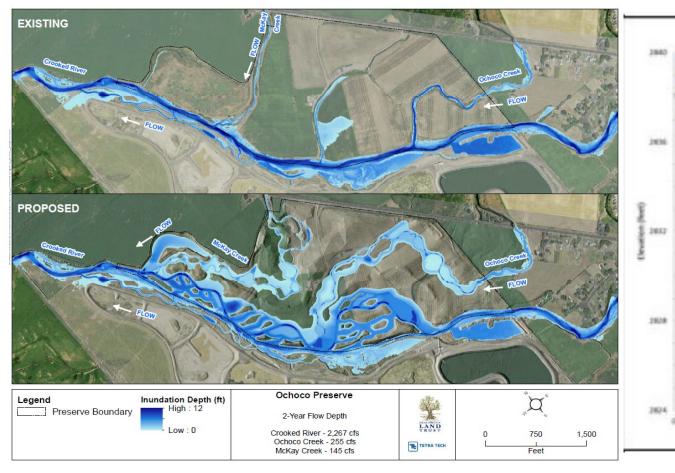
# Prioritization Application Example 2 (Before)

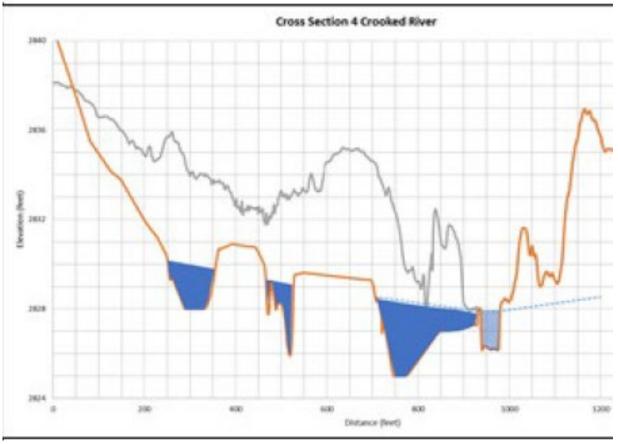






# Prioritization Application Example 2 (After)









## Why Technical Assistance?

# Goal is to have additional expertise

### **Gap in expertise**

Missing capabilities, knowledge, relationships, and/or tools that will add value to your organization

### **Human resources**

Have expertise to address issue(s), but lacking in ability to add staff or capacity

### **Different points of view**

Want a different perspective or added perspective





### Technical Assistance Overview



ESTABLISH GOALS AND OBJECTIVES



**ORGANIZE DATA** 



IDENTIFY DATA
GAPS



ENGAGE WITH STAKEHOLDERS



**GET AGREEMENTS** 



PLANNING PROCESS STEPS



EVALUATE ADDITIONAL EXPERTISE NEEDS



### Technical Assistance Overview

### Do we have a need?

Gaps in expertise
Human resources
Different points
of view

### What are the benefits?

Expertise
Specificity
Cost savings

### What are the costs?

Commitment
Flexibility
Longevity

### How to decide?

Scope/Schedule
Budget
Control
Skills Gap
Dynamics





# **Presentation Conclusion**





- **V** Planning
- **Prioritization**
- **Technical Assistance**

