Welcome

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Code: 790-321-821

Inter-Tribal
Monitoring Data Group
Annual Meeting
February 13, 2024

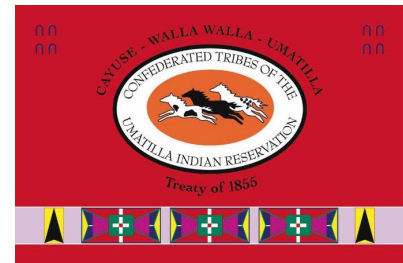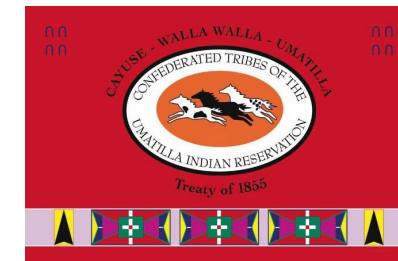Photo by: Peter Hemming / National Geographic

Agenda

Title	Presenters
8:15 **Welcome**	**Donella Miller, Department Manager, Fishery Science, CRITFC**
8:30 West Coast Ocean Alliance (WCOA) Data Portal status & plans: Building a Better Data Portal	Laura Bliss, Ph.D., Project Coordinator and Andy Lanier, Co-Director West Coast Ocean Data Portal Laura.Bliss@westcoastoceanalliance.org, Andy.Lanier@dlcd.oregon.gov portal.westcoastoceans.org www.westcoastoceanalliance.org
9:10 Budget Status: BPA and NOAA funding	Sheryn Olson, ITMD Project Coordinator, CRITFC
9:25 NOAA Grant Update: Enhancing Data Management Capacity among the CRITFC, its Four Member Tribes, and the WCOA	Mary Rose (Rosie) Gradoville, PhD, Oceanographer, Coastal Margin and Observation Prediction Program and Jiaming Yang, PhD, Data Systems Specialist, CRITFC
9:40 Legacy Dataset Preparation for digitization	Christine Longjohn, Biologist, Confederated Tribes of the Warm Springs Reservation of Oregon (CTWSRO)
10:00	BREAK 10 minutes
10:10 A New Tribal Data Management Working Group: Progress and Lessons Learned	Stefan Kelly, Watershed Restoration Coordinator, CTWSRO
10:25 NWIFC Tribal Water Quality Data Exchange and the Information Management Platform	Bruce Jones, Salmon and Steelhead Habitat Inventory and Assessment Program Section Mgr., Northwest Indian Fisheries Commission
10:55	BREAK 10 minutes
11:00 ITMD Discussion	5-year strategy 2024 update Objectives: Are they Specific, Measurable, Achievable, Relevant, Time-bound? Timeline thoughts Work planning: Next topics for improvement-Metadata! All topics discussion
12:15	Adjourn

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CONFEDERATED TRIBES OF WARM SPRINGS 1855

CAYUSE · WALLA WALLA · UMATILLA CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION Treaty of 1855

NEZ PERCE TRIBE TREATY OF 1855

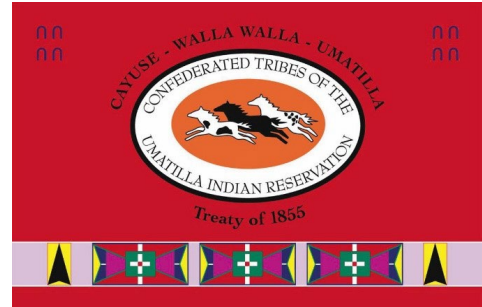CONFEDERATED TRIBES AND BANDS YAKAMA NATION TREATY OF 1855

Inter-Tribal Monitoring Data Project

Bonneville Power Administration/Accords Project 2008-507-00
with support from EPA Exchange Network grant 2017-2019 and NOAA Tribal Engagement grant 2023-2024

Coordination and collaboration are important to continue discussion amongst the four tribes;
we can minimize 're-inventing the wheel' and maximize our time and resources to build and maintain our data systems."
--- An ITMD group member

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The ITMD Project Group 2010-2023

CTWSRO	CTUIR	YN	CRITFC	CRITFC
Amy Charette	Ken Burcham	Michael Babcock	Ryan Branstetter	Joe Nowinski
Javin Dimmick	George Clark	Bill Bosch	Jayson FiveCrows	Hayley Nuetzel
Craig Graham	Colette Coiner	Vaughan Gilmore	Henry Franzoni	Sheryn Olson
Lyman Jim	Stacy Schumacher	Tom Iverson	Rosie Gradoville	Zach Penney
Stefan Kelly	**NPT**	Anneliese Myers	David Graves	Anna Ringelman
Christine Longjohn	Ryan Kinzer	Michelle Steg	Doug Hatch	Colleen Roe
Richard McConville	Samantha Smith		Casey Justice	Charles Seaton
Lauren Osborne	Tyler Stright		Denise Kelsey	Tami Wilkerson
	Clark Watry		Donella Miller	Jiaming Yang

Thank You to the many participants past and present

February 13, 2024

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A Discussion.   ITMD then …

- ITMD Project's first 10 years:
  - ▪ Needs assessments
  - ▪ Develop hardware and software infrastructure
    at CRITFC's four member tribes and at CRITFC

- Spring 2020, members updated ITMD mission focus:
  - ▪ Maintain, upgrade, improve the tribes' software Database Management Systems
  - ▪ Tribal Coordination and Collaboration foremost, and
    - o Reduce or Eliminate Data Steward roles for projects within CRITFC
    - o Eliminate the CRITFC-wide computer/IT funding and support roles
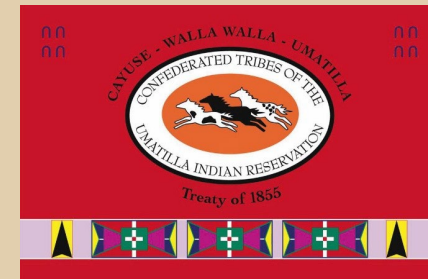
ITMD now and Future …

Late 2021 –ITMD group wrote a Five-Year strategy 2022-2026, approved February 2022

This serves as a work plan, a playbook

Updated in 2023, and now **ITMD Five Year Plan 2022- 2026, 2024 Update**

Today, considering…. The five-year plan and a technical team for metadata

ITMD now and Future …Questions for Discussion

ITMD Five Year Plan 2022- 2026, 2024 Update

- Do you think the goals and objectives are still relevant and in line with your tribe's priorities for the project? (p. 6) Are they Achievable?

- Is the timeline of tasks feasible given our resources? (10)

- Do you want to update the SWOT analysis? (21)
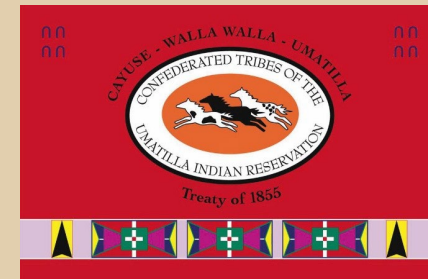
ITMD Futures: A Technical Team. A Discussion

Metadata: How can it serve us ?

- New tech team formed to explore metadata, notes of 1st meeting here.
  In folder: Metadata

- The folder has a preliminary report that Jammin Y wrote.

- Most of that info is in the NOAA grant performance report Appendix A.

- Everyone came to the meeting with a long list of "needs and wants"!

NEXT steps??
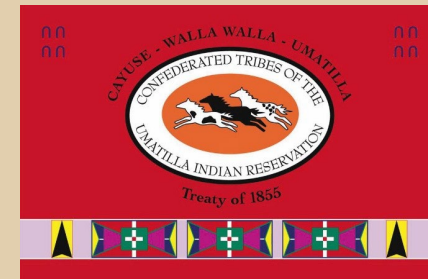
Metadata: How can it serve us ?

NEXT steps?? Proposed process…

1. *determine what **functions** we require that need metadata support*, such as

- **descriptive** (contextual) metadata – to enable identification, discovery, access, re-usability, e.g. ?
- **administrative** metadata – to assist preservation, rights, and appropriate usage?
- **structural** metadata – to enable machine processing, such as to build citations & metadata reports, or allow Application Programming Interfaces (APIs) to transfer datasets? These metadata ensure data exchange standards (DESs) that are machine and human readable fields. They are necessary for current repositories to interact with many data repositories. See Semantic Primer.

2. Assess our current repositories' existing metadata and metadata gaps.

3. Map redundant metadata fields in our tables, then revise, or add metadata fields for our required uses.

4. Develop the ability for users to *search metadata, then produce reports for metadata* across projects for better collaboration. This is a high priority and is in progress.

5. Develop machine readable metadata to better allow API data transfer among repositories.
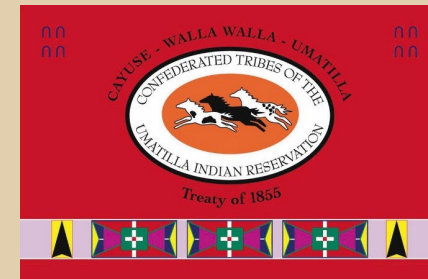
NOAA grant performance report here.

Metadata: How can it serve us ?

NEXT steps?? Some digging into the systems.

- Each tribe and CRITFC evaluates the existing metadata in your data management system.

- Identify strengths (very useful universal terms?) and weaknesses (missing values in metadata fields? Need more mandatory fields?, More fields?)

- Everyone compile a list of short-term – what can we do now with existing systems? and long-term metadata improvement requests.

- We come back with our reports to discuss and plan.

NOAA grant performance report here.

Thank You

Cascade Locks

Fiona Morrison 2022

TMD now and Future … Some of your thoughts from 2022

Scope   End Goals

Data systems are essential to our research, monitoring, and evaluation work.

- We are working to build data systems from front-end field data capture to back-end service of the data via web query and csv download. The end-product goal is a web-based back-end data repository that project researchers are comfortable using and querying and know that the data retrieved are "the best available" data. This needs to be internal first (tribes and CRITFC) so that we know project researchers understand the "nuances" of the data. However, some data sets, like dam, trap, or weir counts, can be public.

- By 2027, we are hoping we will be >90% of the way there with respect to dam/trap count, dam/trap sample, hatchery growth/survival/release, Yakima steelhead kelt, and possibly other data sets.

- Seamless interface of these systems with PTAGIS by 2027 as well.

- Independent of external support (i.e., self-sufficient)

- Able to support a full data management team (incl programmer/developer) Ideally, everything would be set and we wouldn't be reliant on a consultant to manage this.

TMD now and Future … Some of your thoughts from 2022

Scope, End Goals   **Broad Questions**

- Tricky since not all tribes use the same system - develop microservices to be universal, where possible, to the different systems in use - in general, I think ITMD should focus on similarities/common goals/objectives since this is where we can find the most efficient and effective solutions, not differences.

- Coordination and collaboration are important to continue to facilitate discussion amongst the four tribes so that we minimize "re-invent the wheel" and maximize use of our time and resources to build and maintain our data systems.

- While standardization amongst the four tribes and CRITFC has many benefits, it does not seem feasible due to development that has already occurred and to differences in the way the four tribes' natural resources departments are structured and operate.