

Columbia River Treaty Socio-Economic Integration Introduction

Columbia Basin Regional Advisory Committee March 8, 2021

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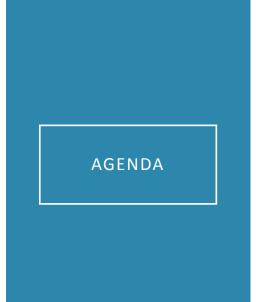










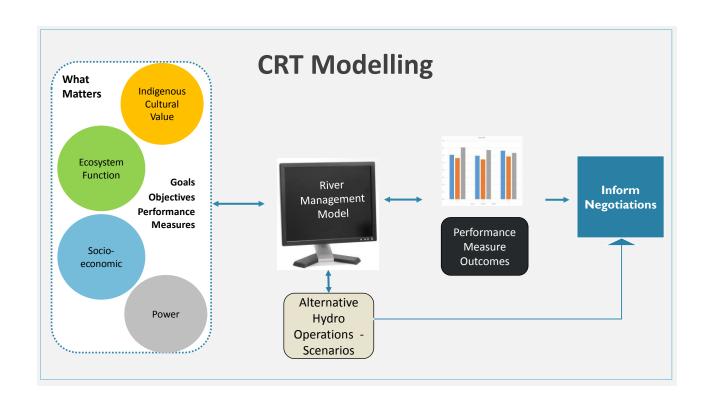


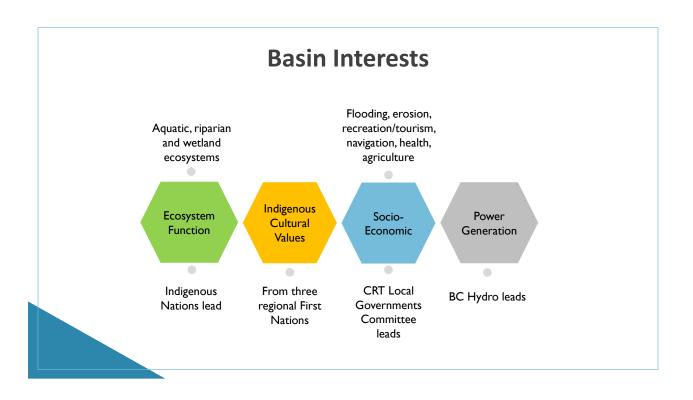
- Overview
- Introduction to scenario modelling and performance measures
- Developing SE Performance Measures
- Engagement Design Input
- Next Steps

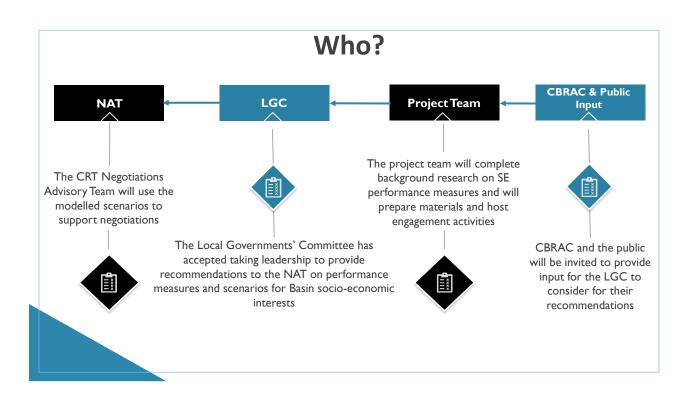


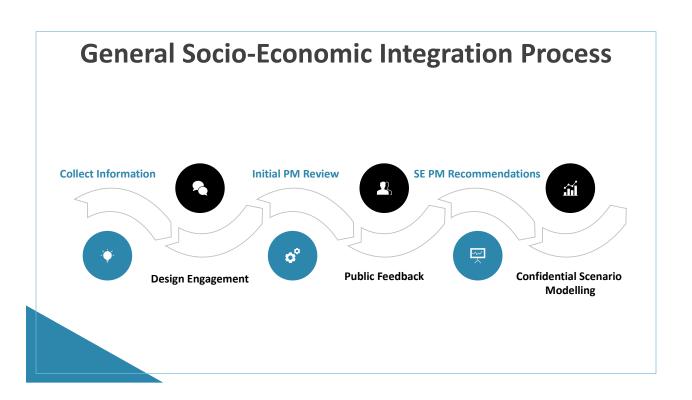
Why?

- CRT Negotiations Advisory Team (NAT) needs to understand:
- How U.S. proposals for Treaty changes will impact Basin interests
- How the Treaty can be modernized to increase the flexibility in BC Hydro operations to improve conditions for Basin interests











Introduction to Scenario Modelling

What is a River Management Model?



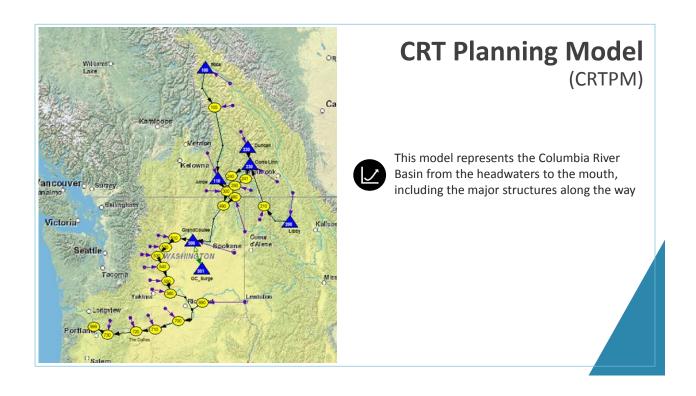
Mathematical representation of a river system

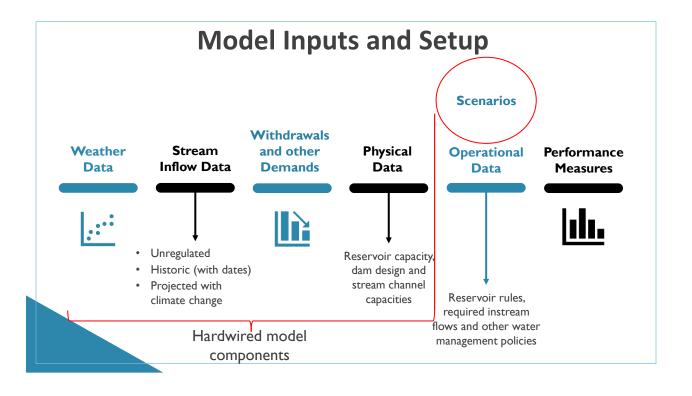


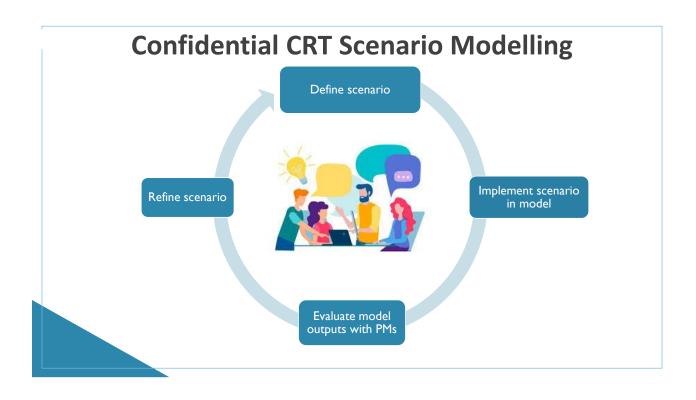
A collection of assumptions about how the system works

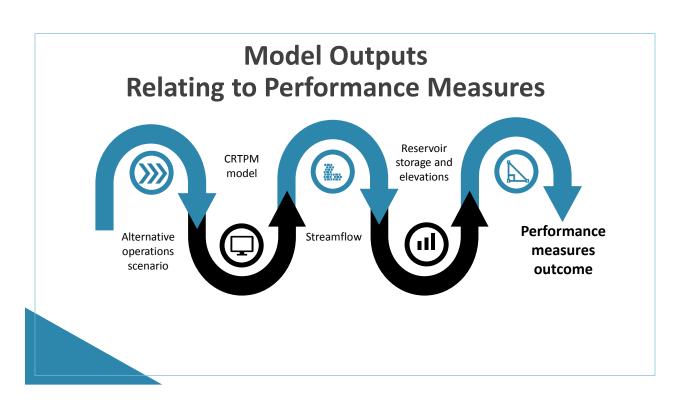


A means of experimenting with the system to look at changes in assumptions









Developing Performance Measures

Arrow Reservoir Dust Control Example









Why?

Where?

When?

What?

Minimize dust generation

Arrow reservoir

March I to April 30

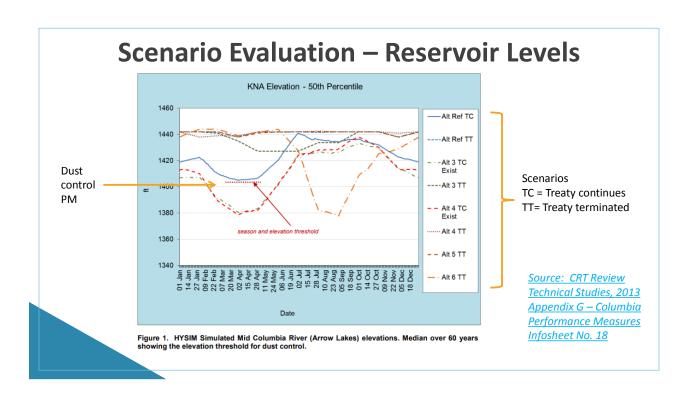
No. of days reservoir elevation is below 1410 feet

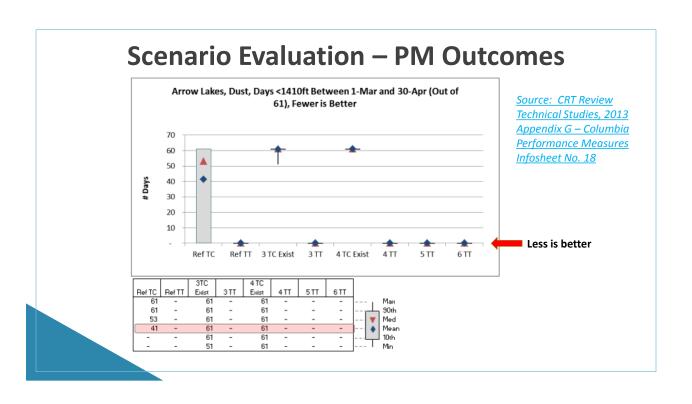
CRT Review Technical Studies (2013) Example

ARROW LAKES RESERVOIR: DUST

Objective / Location	Performance Measure	Units	Description
Dust Control/ Arrow Reservoir	Dust potential days	# days elevation is below 1410 ft between 1 March and 30 April	Sum of # days per year that the reservoir water level is below 1410 ft when dust generation potential is highest in the lower elevations.

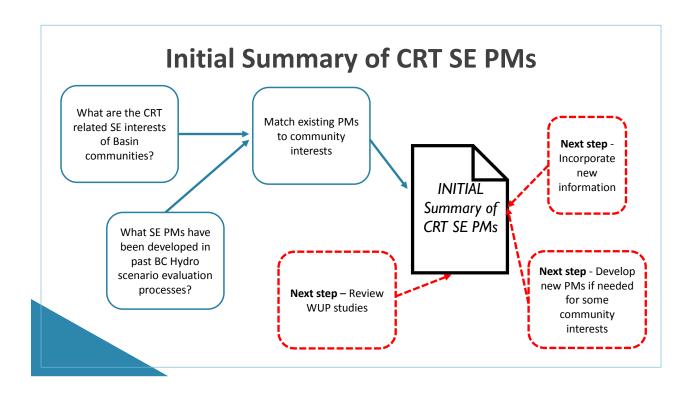
Source: CRT Review
Technical Studies, 2013
Appendix G — Columbia
Performance Measures
Infosheet No. 18



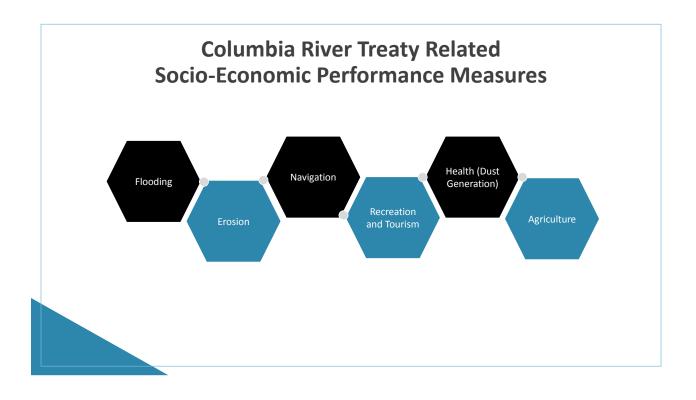


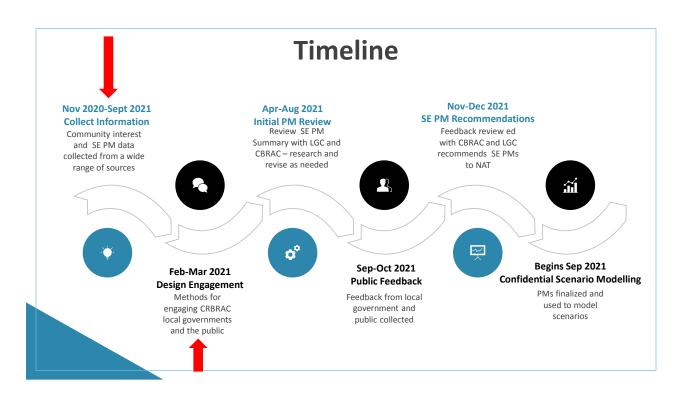
Scenario Evaluation – Comparing PMs Table 9: Performance of Alternatives in Arrow Lakes Reservoir Performance Measure Units Dir RefTC 3TC 4TC RefTT 3TT 4TT 5TT 6TT Objective Arrow Lakes Aquatic - Kok Trib. Access Days > 1430' Days Н 60 (#20) 107 101 98 (#7) Epilimnetic residence time Н Aquatic Productivity Days (#17) 227 233 Heritage Site erosion Weighted Days Heritage Site inundation Weighted Days Н 190 (#17) Recreation - General 1435 < days < 1440 Н 197 197 197 (#16) days < 1410 Days (#18) Navigation Weighted-Days Days (#15) Legend Better than highlighted alt Worse than highlighted alt Highlighted alt Source: CRT Review Technical Studies, 2013, page 48





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	2004 2005	2010	2013	2014	2017	2018+2019	2020
Community nterests				CRT Summary of Canadian Dam and Reservoir Issues 2014	Arrow Lakes Reservoir Mid- Elevation Scenarios: Scoping Evaluation	CRT Community Meeting Summary Reports 2018 2019	
E PMs from past BC Hydro Processes	Duncan and Columbia Water Use Plans: Consultative Committee Reports and Plans	<u>Non-Treaty</u> <u>Storage</u> <u>Agreement</u>	CRT Review Technical Study Report and Appendices F, G and H	ì			
Other reports	Libby operations input					Kootenay Lake Flooding Impact Analysis	Koocanus Weir Draf Report





INITIAL Socio-Economic PM List

CBRAC members are asked to review the list and fill out survey with any concerns.

Target date - March 19??

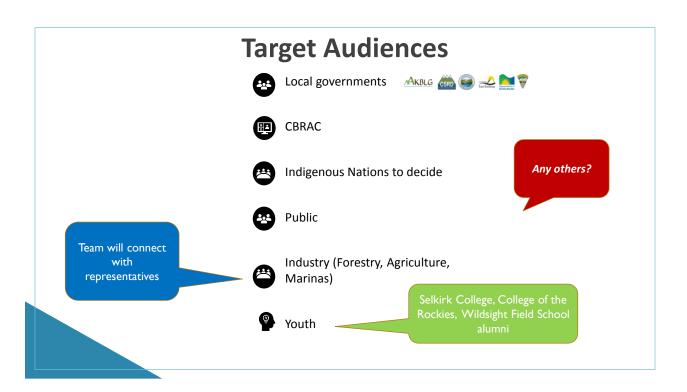
Please remember:

- Interests must be related to river flows or reservoir levels to be assessed in the modelling
- CRT is the focus of this process improved SE PMs will be available for future processes
- This is a long-term endeavor we won't get it all right in this project

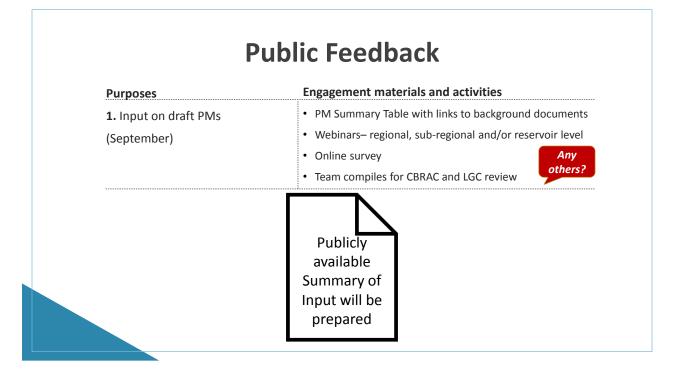


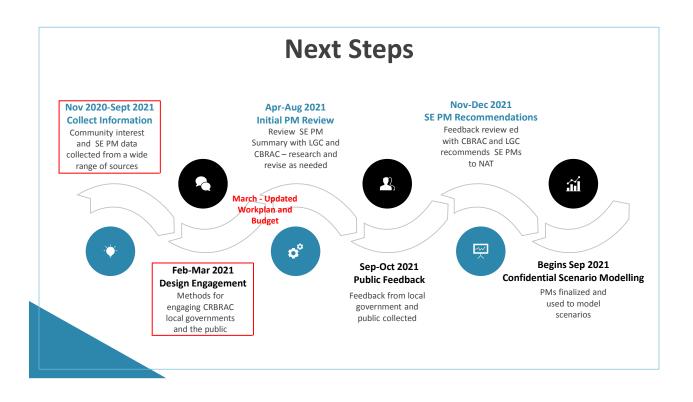
Thoughts Related to Engagement Design

- Complex topic that will be challenging to explain
- Critical to manage expectations scenario modelling is an evaluation process not a decision process
- Opportunity to promote Basin-wide thinking and/or focus on local interests
- Unclear whether WUP constraint that CRT operations would continue resulted in constraints on PMs
- Some existing PMs will be OK as is, some will require minor revisions, and some may require substantial development that is outside the terms of the existing project



Purposes	Engagement materials and activities
1. Input on existing and new PMs (June)	 PM Summary Table with links to background document Webinar Online survey Team compiles/reviews with LGC
2. Input on public feedback (Sept)	Updated Summary Table Webinar Team compiles for LGC consideration to make recommendation to NAT







Actions

March 19 - Feedback on INITIAL PM Summary from CBRAC at online survey

March – Project Team updates budget and workplan

April – May - Project Team drafts refinements to PMs from past processes and drafts new PMs

June - Local Governments Committee and CBRAC review