Agenda Item B.1.b Supplemental Public Presentation 1 March 2023

Pacific Coast Salmon and Climate Initiative

Presented to the Pacific Marine Fisheries Council March 5, 2023 By Jacques White, Long Live the Kings



March 2023

Salmon Are Already in Crisis

28 ESA-listed populations, most not meeting recovery goals

40% Decline in total Pacific Ocean salmon harvests in 2020

US salmon fishery disasters declared between 2016 and 2020

The Problem

Existing Pressures

- Rapid human population growth
- Intensive land and water use
- Depleted salmon populations

Climate Impacts

- Variable snowpack
- Extreme wildfires
- Elevated river
 temperatures
- Lower flows
- Warming and acidifying oceans
- Altered food webs

Increased Salmon and steelhead vulnerably

The Solution

Collaborative Framework

Tribal governments, First Nations, government agencies, academia, NGOs, industry, and community groups

10-Year Initiative

Fill knowledge gaps & learn from each other

Prioritize, fund, and implement crucial actions

Inform local & regional planning and management

Build capacity & resilience in impacted communities

Outcome

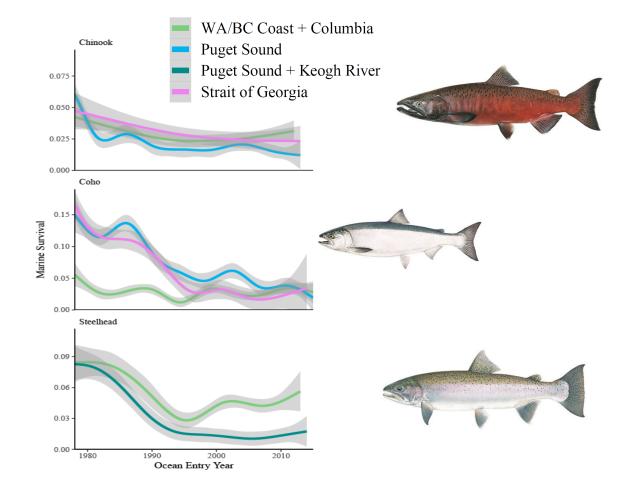
Climateresilient path to protect and restore PNW salmon

The Need for Wider Perspective

Managers and scientists agree:

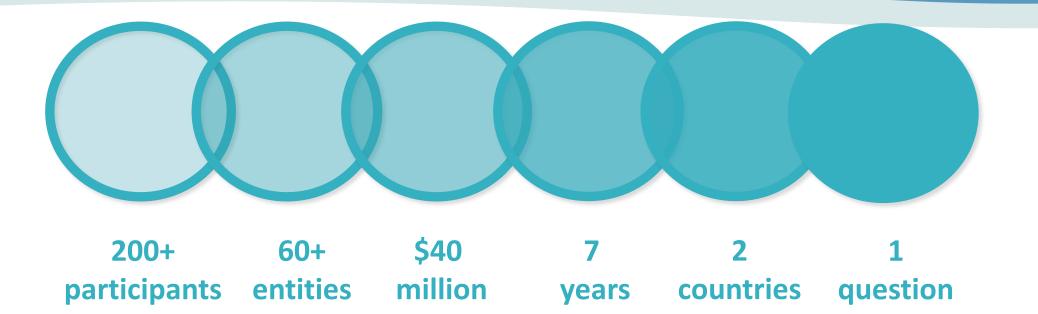
- We need a unified and comprehensive response
- Existing recovery frameworks lack funding, flexibility and take too narrow of an approach
- Local adaptation is essential, but regional perspective, research, sharing, and action is needed

Collaborative Precedent: SSMSP



- Salish Sea Marine Survival Project: 2014-2019
- Question: What are primary factors affecting juvenile Chinook, coho & steelhead survival in the Salish Sea marine environment?
- Approach: 90+ studies across the Salish Sea

Collaborative Precedent: SSMSP



What affects the survival of young Chinook, Coho & steelhead in the Salish Sea?



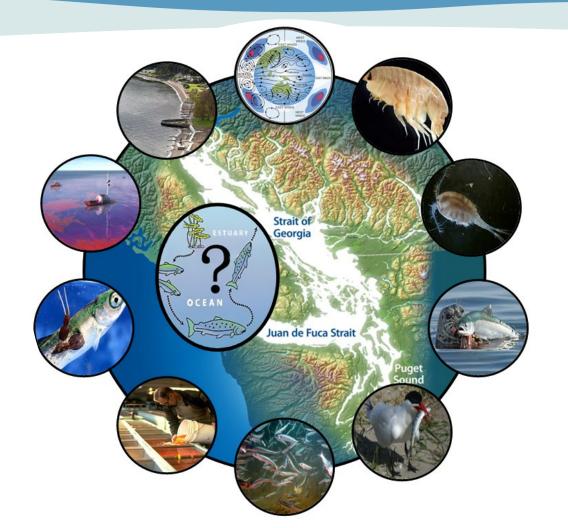


Collaborative Precedent: SSMSP



https://marinesurvivalproject.com/research-findings/

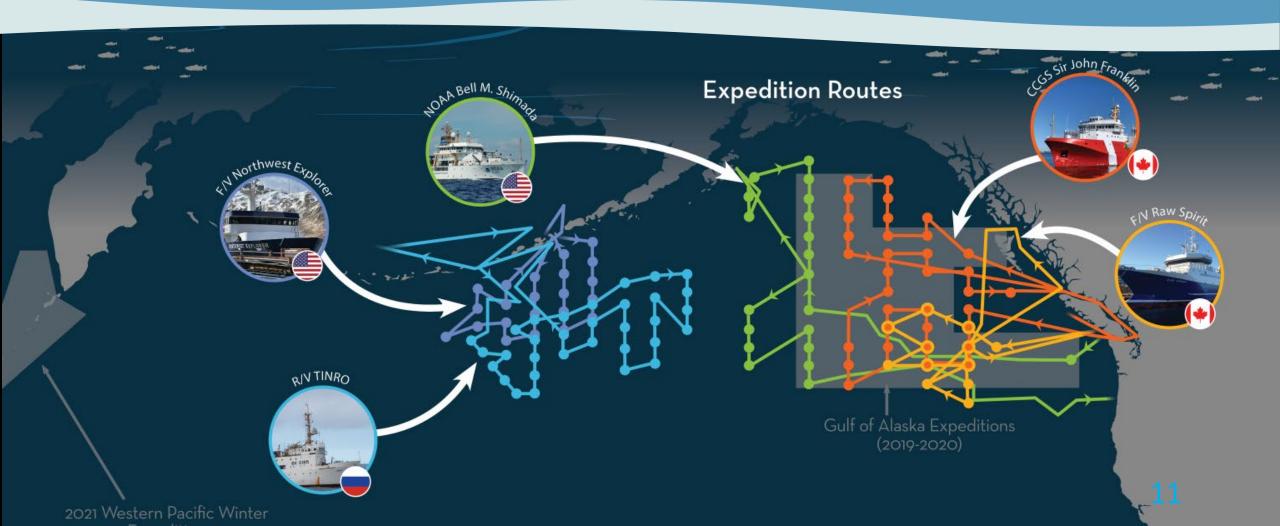
SSMSP Conclusions



Climate change may influence:

- Salmon prey availability
- Harmful algal blooms
- Susceptibility to disease and contaminants

Collaborative Precedent: 2022 Winter High Seas Expedition



Building Connections



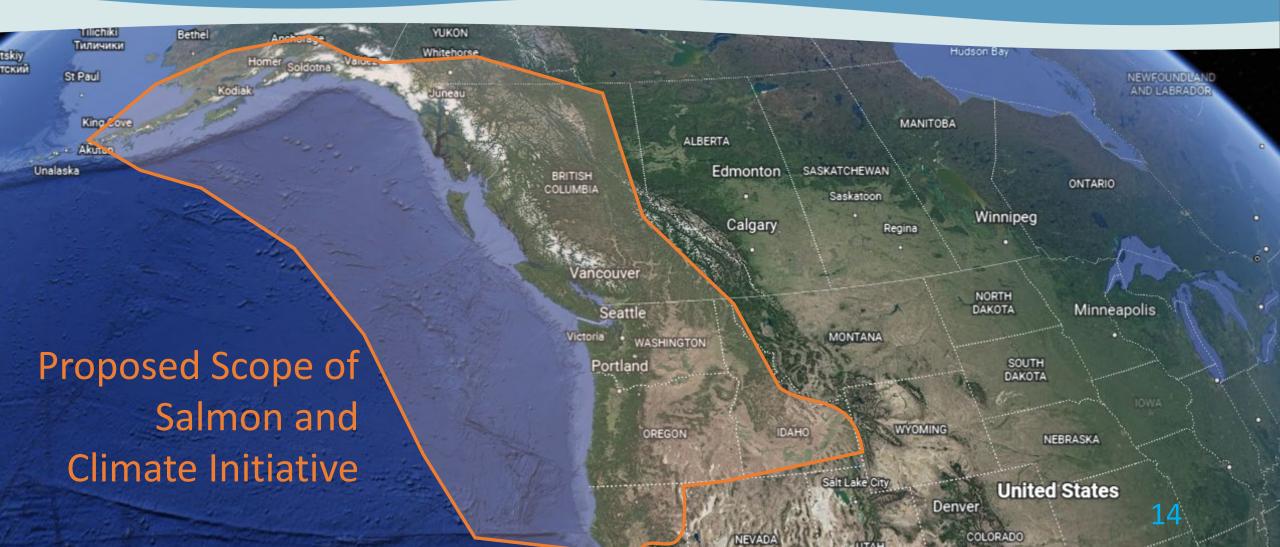
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Centering Indigenous Interests

- Tribal and First Nations communities have long observed climate change
- Mainstream efforts rarely engage with Indigenous communities
- Advancing effective solutions depends on co-producing all initiative phases



Take Actions Across Landscape



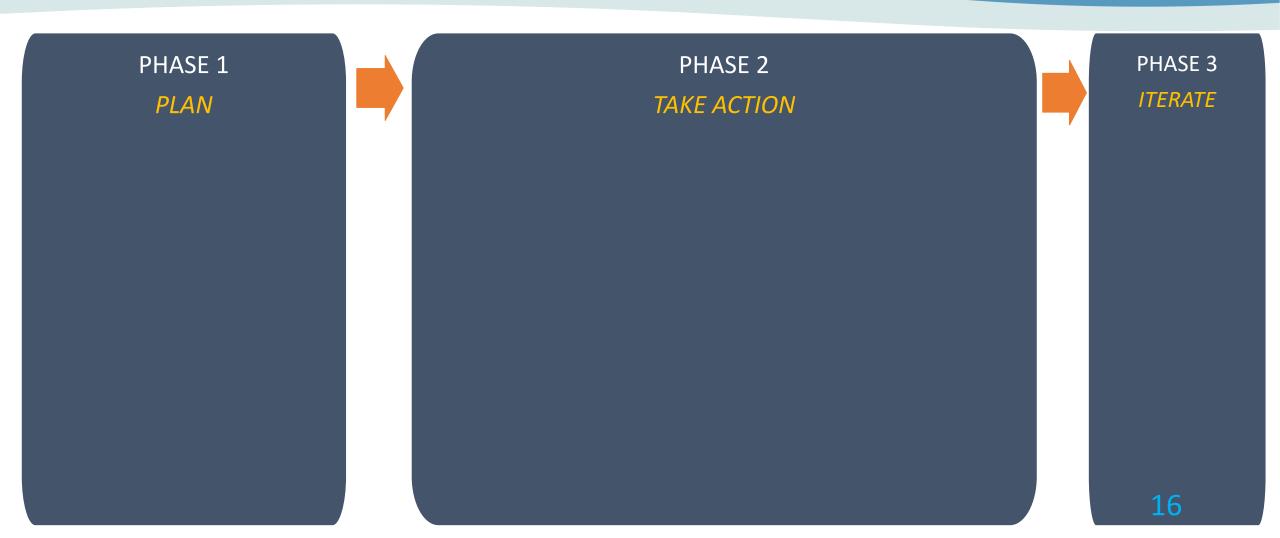
Why Now?



The big ideas driving the Cascadia Innovation Corridor

- Urgent issue requiring big thinking and new strategies
 - Funding and political environment
- New regional approaches to climate change signal potential
 - e.g., Cascadia Innovation Corridor

Phased Approach



Phased Approach



PHASE 3 ITERATE TAKE ACTION Approach: Iterative Coordinating Committee (Guidance) Approach Technical Team(s) (Implementation) Building on Phase 2 **Research Outcomes: Peer Reviewed Studies** Complete (i.e., **Outcome:** knowledge gaps filled) Solution Models & Tools Implemen-Developed tation Science Communicated 17

Phased Approach

PHASE 3

ITERATE

Approach:

Iterative

Approach

Building on

Phase 2

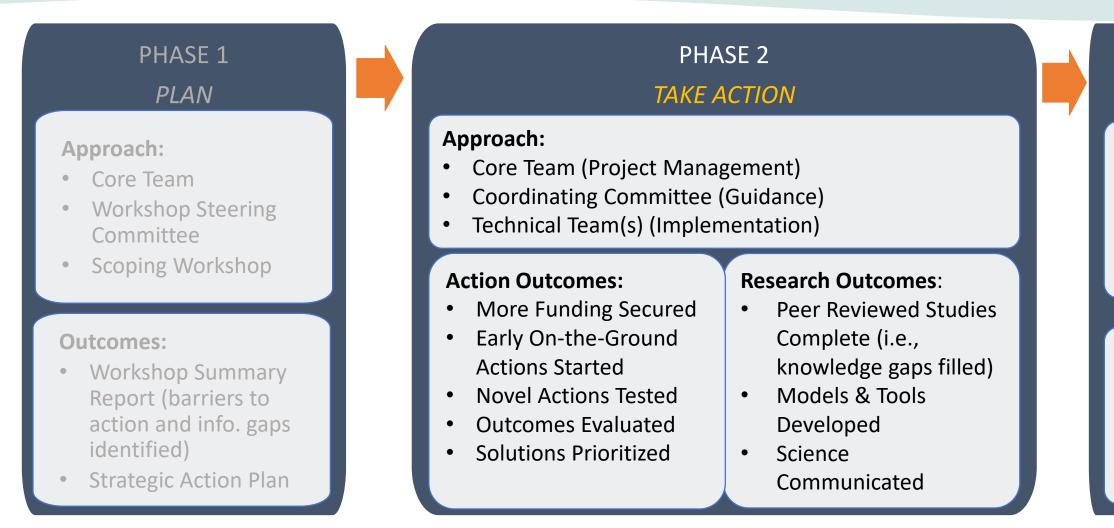
Outcome:

Solution

Implemen-

tation

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Phased Approach



PHASE 3 ITERATE

Approach: Iterative Approach Building on Phase 2

Outcome: Solution Implementation

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Core Team: Work In Progress

- Core Team, to date:
 - Long Live the Kings
 - Salmon Defense
 - Pacific Salmon Foundation (Canada)
 - University of Washington Faculty Members
 - WA Governor's Salmon Recovery Office



Connecting the Dots

Local actions, regional strategies, and global impacts:

Science	 Coordinate research across boundaries & habitat ranges Improve and inform monitoring, forecasting, and adaptive management tools
Planning	 Support information-sharing and coordination Help decisionmakers integrate salmon recovery into community climate adaptation and resilience plans
Investment	 Ensure long-term viability of major salmon recovery investments in habitat and infrastructure Inform priorities for climate-resilient recovery strategies

How to Engage with SCI

Immediate (Phase 1) Goal: build broad coalition of partners to launch, guide and drive the Pacific coast Salmon and Climate Initiative:

- Support efforts to secure funding for the Workshop
- Participate in the Workshop Steering Committee (~ five 2-hour planning meetings)
- Send a representative to the workshop (1-2 days)
 - Support staff to contribute to Workshop Summary Report or Strategic Action Plan (6+ hours)

What would your organization need to engage with SCI? – funding? capacity?