



Salmon Enhancement and Habitat Advisory Board

June 7, 2024





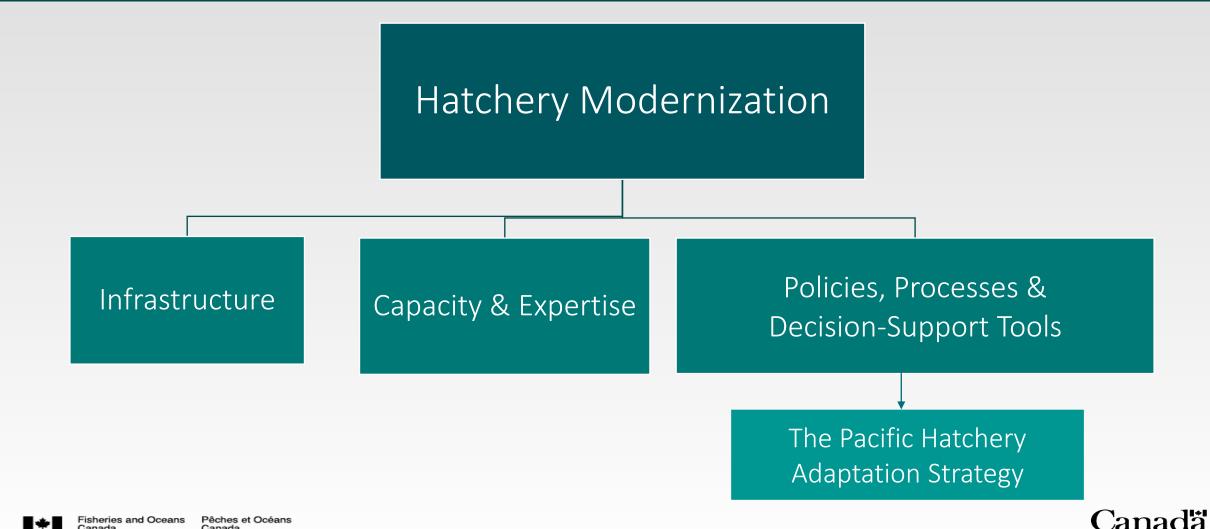


Purpose of Today's Engagement

- Provide an overview of the Pacific Hatchery Adaptation Strategy
 - **Background Information**
 - The Purpose of the Strategy
 - The Expected Outcomes & Scope
 - The Strategy's Objectives
 - **Engagement & Implementation**
- Provide an opportunity for feedback & input on the Strategy



PSSI Pillar 2: Salmon Enhancement – Hatchery Modernization





Background Information

Hatcheries are being used coast wide and have been for over 40 years.

General declines and instability in salmon populations coupled with changes to their natural environment has transformed the setting in which hatcheries operate

Salmon management priorities have shifted to include:

- Increased understanding of risks that hatcheries can pose
- Commitments to UNDRIP
- More collaborative structures with First Nations and stakeholders
- Changes in the way salmon fisheries are conducted









The Purpose

Why are we developing this?

Given current conservation concerns and the impacts of climate change, enhancement is a critical part of the salmon management landscape however, it is acknowledged that hatcheries can pose risks. We need a new strategy to help us use hatcheries responsibly and effectively to support conservation, rebuilding, stewardship, and harvest.

The purpose of the Strategy is to is to build upon existing frameworks and processes to provide a more comprehensive decision-making approach





The Expected Outcomes

What will the Strategy do?

Hatchery planners and operators will be equipped with the tools they need to monitor and adapt their programs.

First Nations, stakeholders, and the public will:

- Know what production level objectives are being met, and how they link to the regional goals.
- Know where to find information that supports the decision-making processes; and
- Will have the opportunity to guide the implementation of consistent approaches.







The Scope

Who does the Strategy apply to and when will it be implemented?

The Strategy applies to all current and future Pacific salmon enhancement activities carried out in BC and the Yukon.

Implementation of the Strategy will occur over time in a tiered manner that considers short to long term time frames





CANADA'S POLICY

Canada

FOR CONSERVATION OF WILD PACIFIC SALMON

Hatchery Scientific Review Group

Pacific Salmon Hatchery Reform

The Foundational Work Supporting the Strategy

Extensive work has gone into the development of the Wild Salmon

Policy and the US's Hatchery Reform Project,

guided by the HSRG.

The objectives defined within this Strategy draw from the recommendations concluded by this work.

Canada's Policy for Conservation of Wild Pacific Salmon The Wild Salmon Policy – Fisheries & Oceans Canada (DFO), 2005



Objective 1

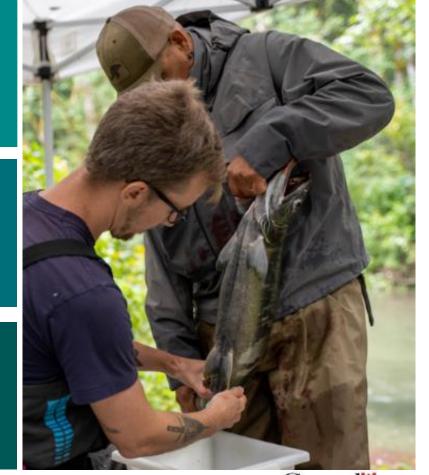
Pacific Hatchery Adaptation Strategy

1. Aligning Salmon Enhancement with Management Objectives

a) Ensure that enhancement decisions are consistent and coordinated with stock management objectives.

b) Develop a framework for comprehensive reviews of hatchery production

c) Determine decision-making for setting target biological designations for individual populations





2. Improving Conservation Salmon Enhancement Outcomes

Objective 2

a) Develop and update best practices and guidelines for Pacific salmon enhancement programs that supports conservation



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Pacific Hatchery Adaptation Strategy

3. Improving Transparency with First Nations & Stakeholders in Hatchery Production Planning Processes & Tools

a) Begin the development of population specific Enhancement Plans.

b) Improve engagement efforts by increasing collaboration with First Nations throughout the production planning process.





Objective 3



4. Aligning Harvest Production with Fishery Transformation

a) DFO will develop estimates of enhanced contribution to catch for harvest production lines.

b) Collaborative development of more specific harvest goals for hatchery programs

c) Implement Chinook Mass Marking where appropriate



Objective 4



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Pacific Hatchery Adaptation Strategy

5. Improve Hatchery Genetic Management

a) Identify PNI target for each enhanced salmon population.

b) Publish management guidance for the application of the genetic guidelines.

c) Develop a plan to use local selfsustaining broodstock.

d) Incorporate new marking and monitoring measures of genetic risk and diversity to inform activities.





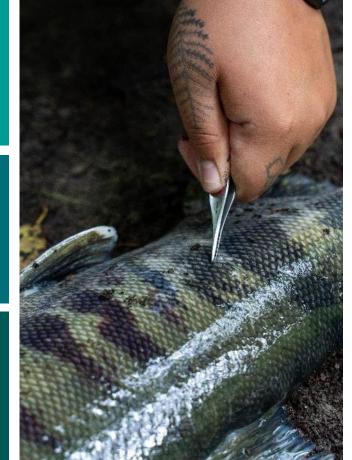


6. Increased Hatchery Science, Research & Experimentation

a) Develop science advice on appropriate level of enhancement within a Conservation Unit

b) Develop a long-term salmon enhancement research and experimental plan.

c) Conduct a risk assessment for new conservation and rebuilding enhancement programs.



Objective 6





Estimated Timeline

Discussion Paper

-Share Discussion Paper for Internal & External Engagement

2023 - 2024

2024-2025

Hatchery Adaptation Pilots & Long-Term Strategy Development

- -Work with First Nations, Stakeholders, and Scientists on Refining Approaches
- -Identify and Implement Facilities & Production Lines to Pilot the Strategy

Implementation Phase

-Create a Long-Term Implementation Plan Based on Strategy Feedback and Results from Pilot Projects

2026



Key Elements of the Strategy setting and evaluating clear objectives

assessing tradeoffs

strengthened incorporation of science and indigenous knowledge

improved engagement

greater adaptability







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Questions/ Thoughts/ Feedback?



Engagement **Key Questions**

- Do you think the sum of these Actions will allow us to achieve our goal of being able to advantageously adapt our operational planning approach?
- Do you see any specific Actions as the highest priority to begin advancing?
- 3. Is your group interested in participating in pilot project development and implementation?
- Do you have any other questions or comments about the Pacific Hatchery Adaptation Strategy?

