



# FRASER SALMON VISUALIZER

SWIMMING UPSTREAM – COMPREHENSIVE LIVE SALMON DATABASE

# CONTEXT

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MILESTONES

BEGINNINGS

AREAS OF GROWTH

SUCCESS DYNAMICS

COLLABORATION

WINNING RECOMMENDATIONS



# MILESTONES

## FOCUS

Scope and digging into what data we have and identifying its application to the system.

## LAYERS

Disseminate standardized metrics layers of data needed.

## DESIGN

Coordinate cross pollination of data and application of use.

## START

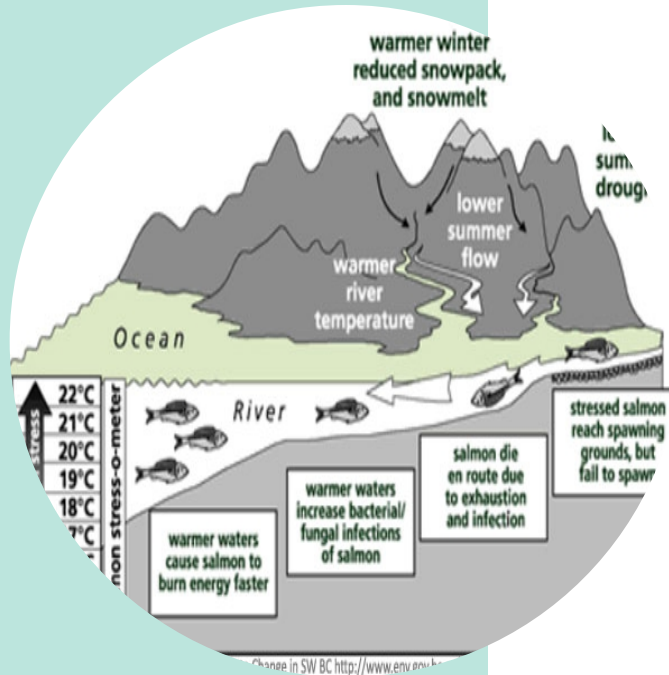
Identified non contentious data and watershed and/or a stream.

## COLLAB

Triparty lead with application of protected use of Indigenous Knowledge.



# BEGINNINGS



Leadership agreement of project.

Data is available to start now.

There is a want to gather information consistent manner.

Data collectors are there to provide.

Data systems available to tap into.

Partnership response teams are ready to gather.

# AREAS OF GROWTH

## WHAT HAS **WORKED**

Agreement that the resource is needed.

There is data and systems now that we can start with.

Will to gather the information together that is available in consistent way.

Projects activated to gather more data.

Salmon Explorer but it's missing several elements.

NOAA Data

There is a lot of data out there to use.

Partnership response teams.

## WAS HAS **NOT WORKED**

Bringing all resources together in one area (all other the place).

PSF/PSC/BC/DFO – data all over the place.

Not sure who to contact or reach out to.

Salmon Explorer data is not comprehensive enough.

Funding for data.

Data management (work that needs to be done to keep system working).

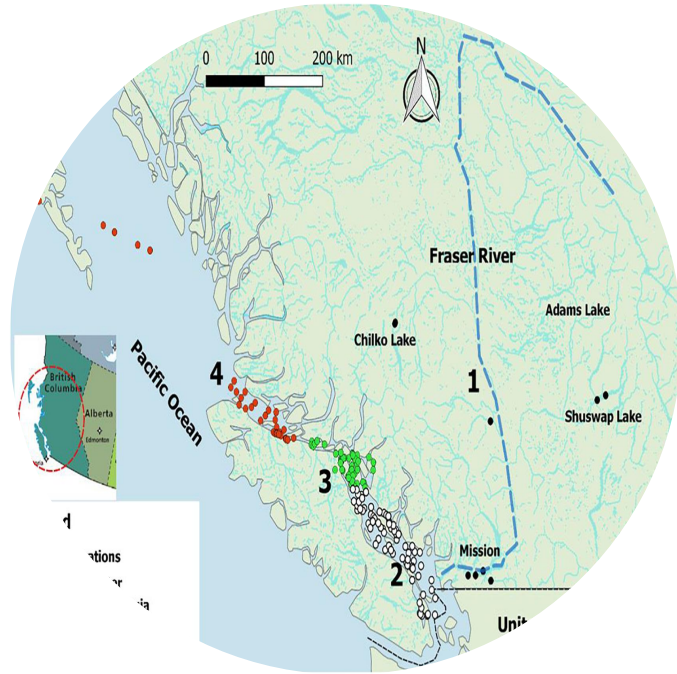
No compile and sharing mechanisms on consistent matter.

Centre of expertise/excellence is missing.

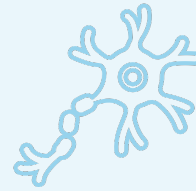
No one is ready to take ownership of this project.

No short term goals.

Visualization of the system and it's application.



# SUCCESS DYNAMICS



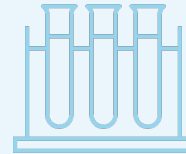
## WHAT NEEDS TO GO

DFO/BC Data Control, Ego and Unfounded Rules, Silo'ing, Lack of Indigenous Knowledge acknowledgement and use.



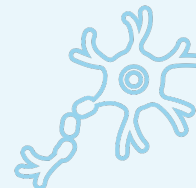
## STEPS TO ACHIEVEMENT

Commitment, connection to all the database, technology application, maintenance, monitoring, accessibility, center of expertise, data collection contacts, interpretation of methods, quality – characterized appropriately.



## WHO NEEDS TO INVOLVED

All data users and generators, political leadership and buy in, identified project team, streamkeepers, industry (agriculture, Hydro, forestry, mining/oil and gas/commercial fisheries/guides and lodges), indigenous, municipalities, districts, BC, feds, consultants, academia.



## DECISION MAKERS

BC Government, Indigenous Nations (Underling Title and Rights Holders), Federal Agencies, Data Control Team, Data Holders Providers

# COLLABORATION



## TECHNICAL TEAM

- 1-2 people per organization.
- Regional body
- Implementation team.
- Expert with each specific data and
- Indigenous knowledge.



## TECHNICAL CONDITIONS

Data presence, properly built, consistence upgrades/updated, technical maintenance, real time availability, securities, accessibility, QCQA.



## LOGISTICS CONDITIONS

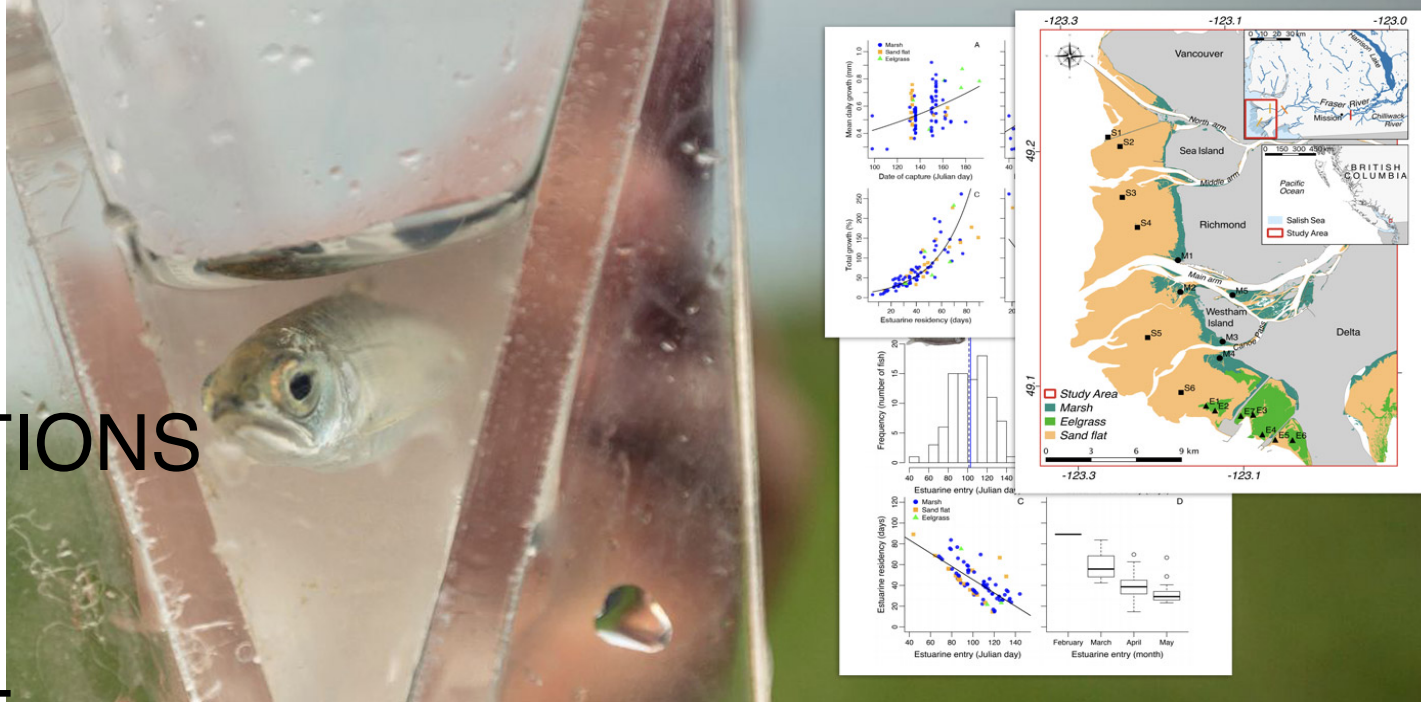
Guidelines and application, inclusive collaboration, evaluation process, application of data compliance, Indigenous knowledge, safety use protocols, where/who will house, contacts, scalable, tool to support decision



## GOVERNANCE CONDITIONS

Continued funding, political/leadership commitment, strong governance team interface, multiple objectives, multi-party.

DETAILED ANNOTATIONS  
DATA UPDATES  
VERSION CONTROL  
DATA QUALITY  
METHODS DESCRIPTION



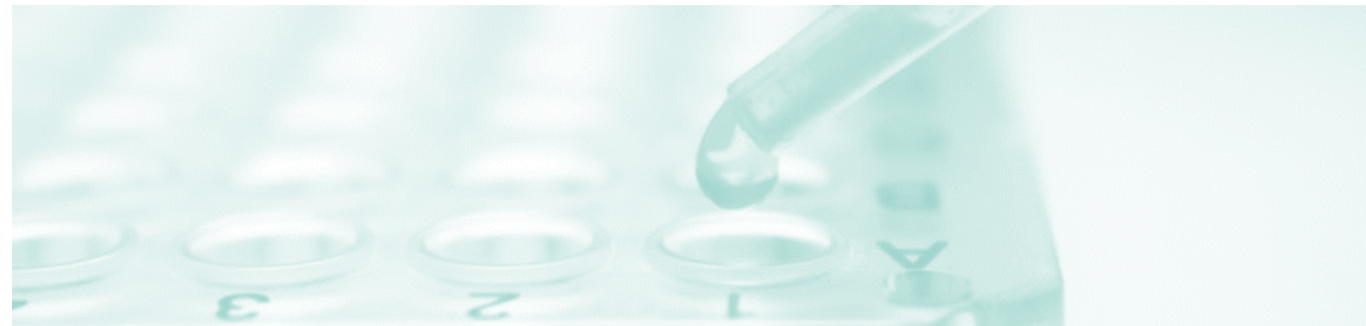
WINNING RECOMMENDATIONS



# MAKING WAVES



“Our modern, accessible, state of the art visualization and data support system that will transform our knowledge of fish and their environment.” – Mike Staley



# TO CONSIDER



How to access consultant data (i.e. LGL): is it proprietor?

Information Management System Professionals large scale.

How would “real time data” be applied? Raw, or weeks, months season after collected?

How do you get buy in to use this database? How do you get people to enter through this portal rather than others?

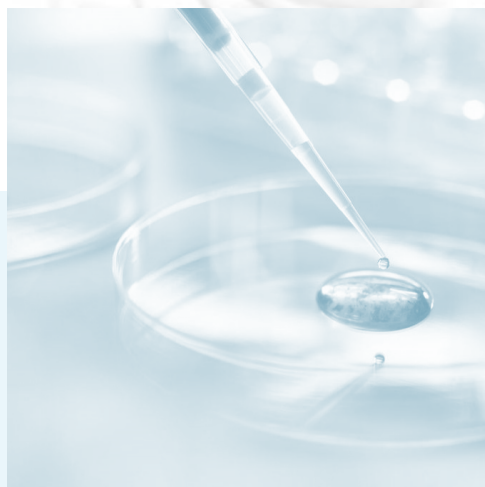
Need mechanisms to link to other databases available; list of all databases.

Need a steering committee to define requirements/staffing.

Possible over scope and ensure that data stays with authority of specific agencies, “can’t do it all”

How to get commitments on sharing and use; understanding legal rationale not to share.

FAIR data considerations, the data provided needs to show study design.



# THANK YOU

DATA MANAGEMENT AND SHARING TEAM  
FRASER RIVER CHINOOK REBUILDING WORKSHOP – DECEMBER 2023