



# Lower Fraser Climate Adapt Project





- The Lower Fraser Fisheries Alliance (LFFA) is a voice for the First Nations of the Lower Fraser River.
- We work collaboratively to manage our fishery and support cultural and spiritual traditions for future generations.
- The Alliance serves 30 First Nations from the mouth of the Fraser River to the Canyon near Yale in B.C.
- Support fisheries planning, research, habitat restoration etc.

# Climate Change Adapt Project

- To support First Nations in planning for and adapting to the potential impacts of climate change to their fisheries and increasing ecosystem resilience.
- Implementing the plan would create jobs and build capacity. (e.g. restoration, monitoring etc.).
- Spatial database of environmental values important to FNs.





# Climate Change Impacts in the Lower Fraser

- Coastal and Inland flooding
  - 1 m SLR by 2100; increased Fraser river flood risk.
- Earlier freshet; lower flows in summer & early fall.
- Higher water temperatures – fish survival/productivity.
- Higher landslide risk in fish bearing watercourses.
- Ocean acidification.



# Process

## **Phase 1 (2017-18) – Mapping Database**

1. Email survey to First Nations to get inputs on Environmental and Culturally Sensitive Values to be mapped.
2. Creation of spatial data base – 50-60 layers.
3. Different climate change flood scenarios superimposed on maps to understand what important values will be affected.
4. Meeting with First Nations representatives on mapping done, to gain inputs on priorities for adaptation.

## **Phase 2 (2018-20) – Sub-Regional Planning Meetings**

1. Creation of mapping tools such as heat maps.
2. Host 4 regional meetings each year – to identify priorities regarding adaptation to flood and suggest measures for climate change adaptation.
3. Develop website to provide First Nations access to spatial data.

## **Phase 3 (2020-21) – Plan and Report**

1. Prepare Lower Fraser First Nations Adaptation Plan based on discussions at FN meetings.

# Benefits

1. Identification of climate change risks to fish and ecosystem.
2. Creation of **First Nation-driven climate adaptation plans**.
3. **Mapping tools and vulnerability assessment** to identify the areas most vulnerable to climate change impacts.
4. Habitat mapping and adaptation planning will also support LFFA's work on fish habitat restoration and **other projects**.
5. Implementation of plan could result in **enhanced capacity, communication, infrastructure and employment** in First Nation communities.
6. **First Nations voice** in planning processes such as land use, flood management etc.

# Questions?

**Huy ch q'u!**

Thank you! ☺



## **Lower Fraser Fisheries Alliance**

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