

WHY ENERGY, WHY RENEWABLES, WHY SMALL-SCALE?

CEBC's Generate 2018 – November 26, 2018

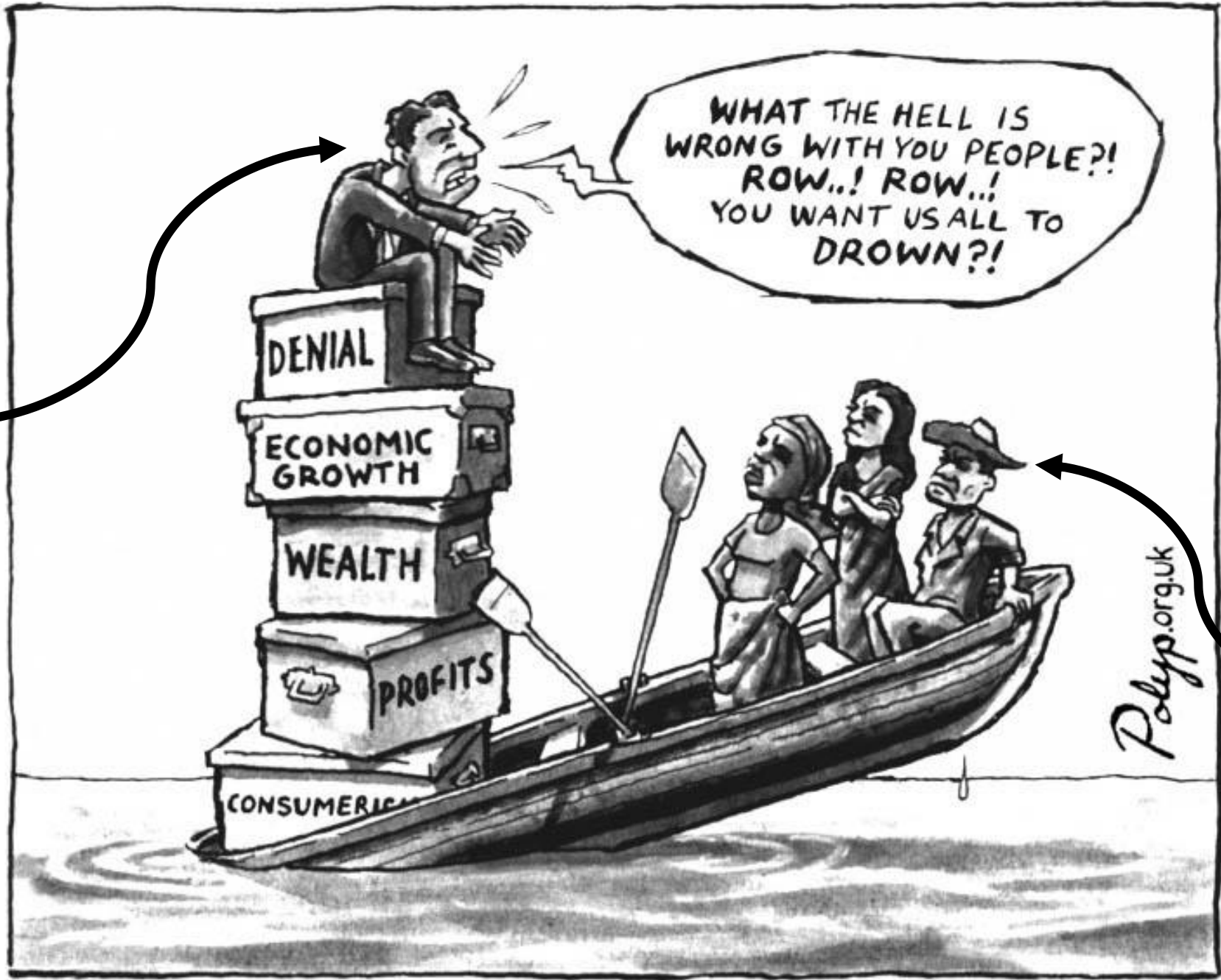
Chief Patrick Michell and Zain Nayani



TRANSFORMATION THROUGH RESILIENCE

- ❑ Information is power and Kanaka gives it away for free?
- ❑ Check us out: www.kanakabarband.ca
- ❑ Click to see video: [Summer Youth Program](#)



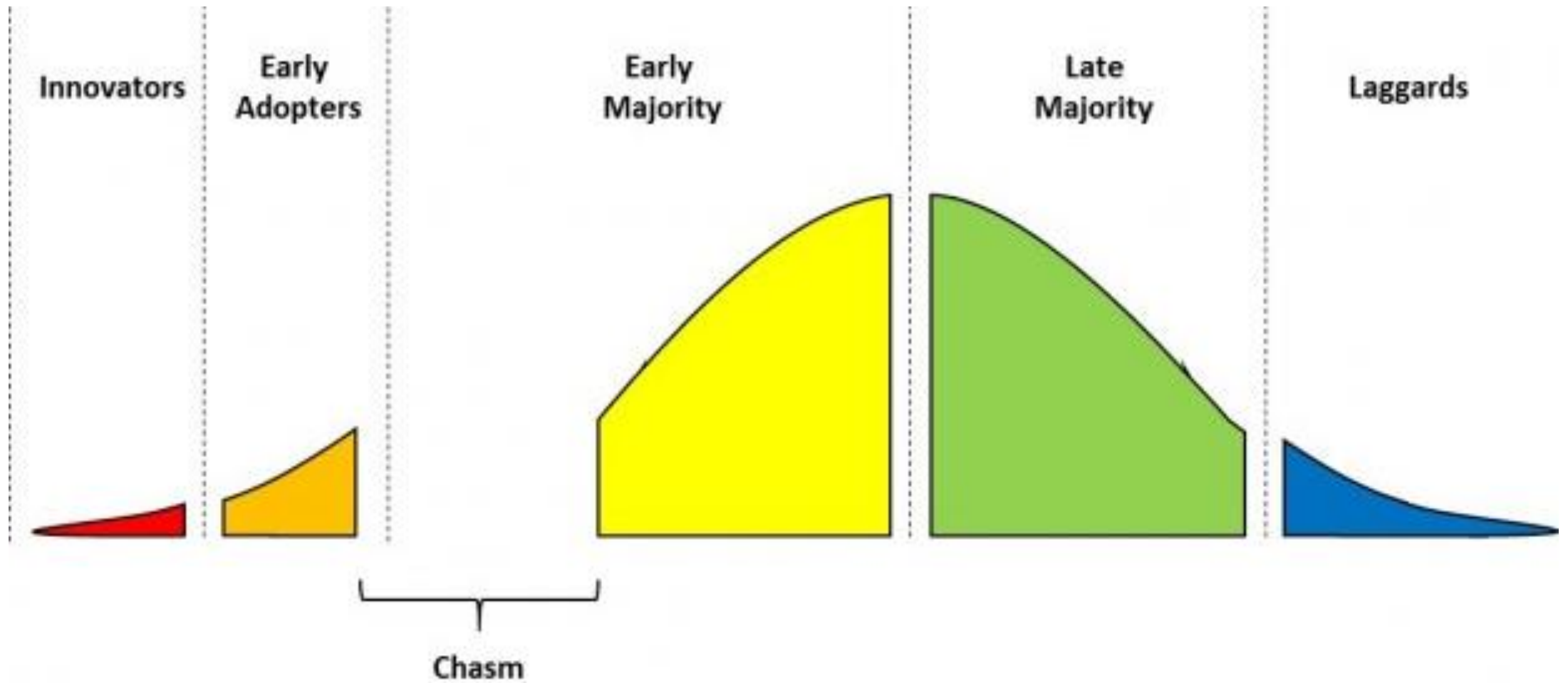


Hey, is that us?

Or, is that us?

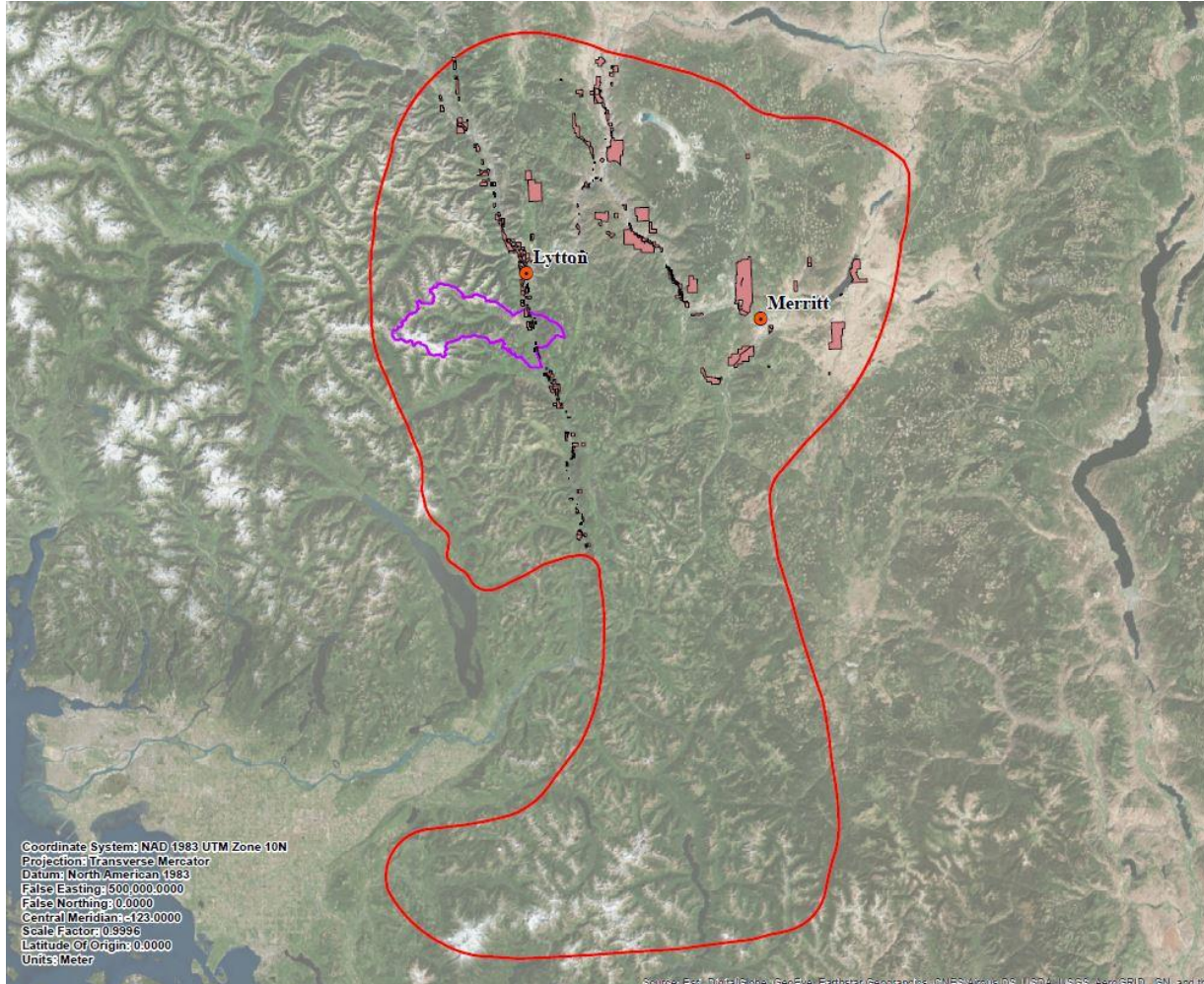
'THE SAME BOAT'

WHERE ARE WE ON THIS CURVE?



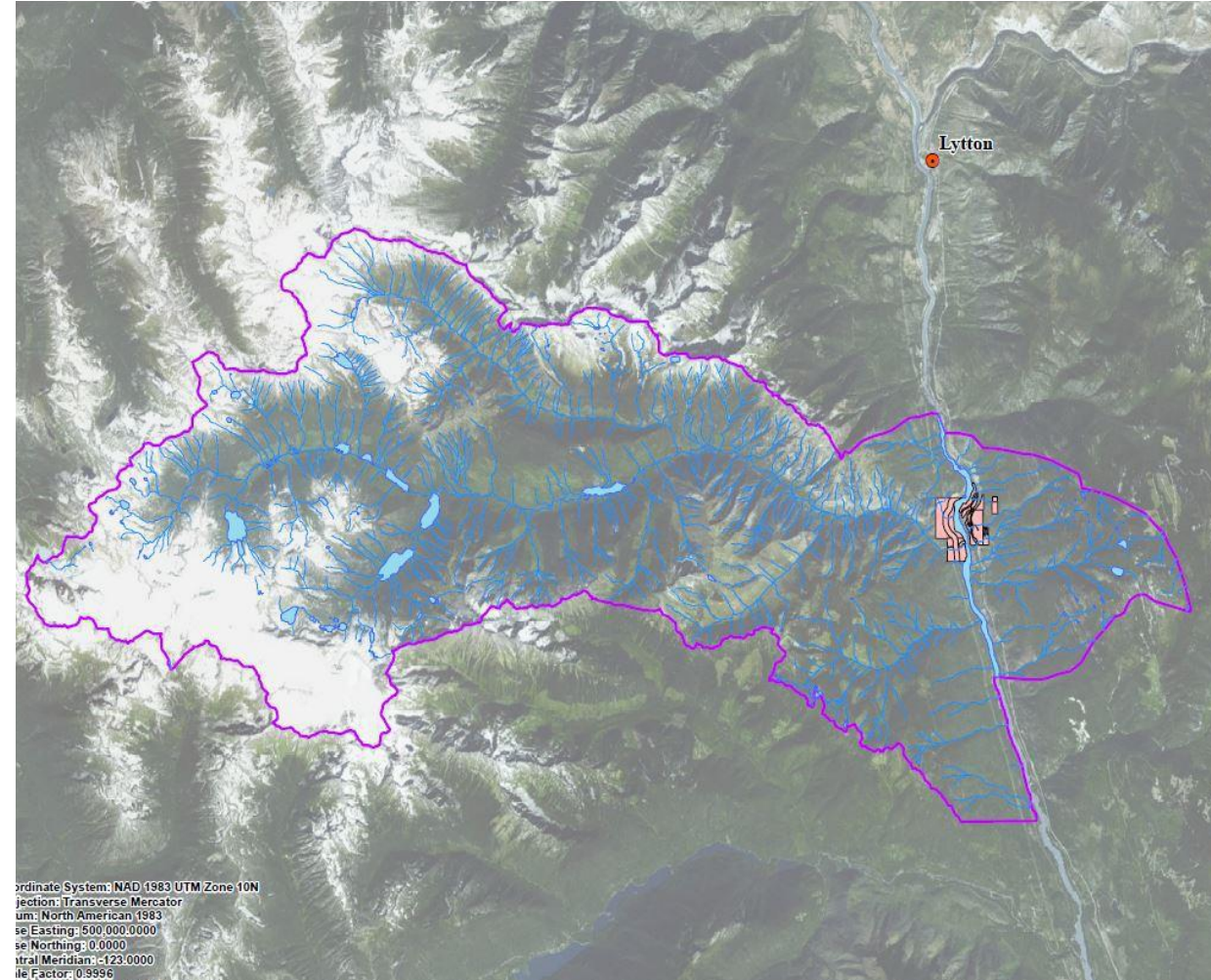
NLAKA'PAMUX

(the people here)



TEQT'AQTN'MUX

(the crossing place people)



7000+ YEARS — A STABLE QUALITY OF LIFE

Land (*Tmieux*) produces...

Water (creeks and river)

Air (wind)

Sun (light and heat)

Ecosystems (plants, animals, fish)

...Resources (*Nwhabaten*)

Food (hunting, fishing, gathering)

Shelter, clothing, tools and baskets

Art, language, culture and laws

Economy (trade and then sale)

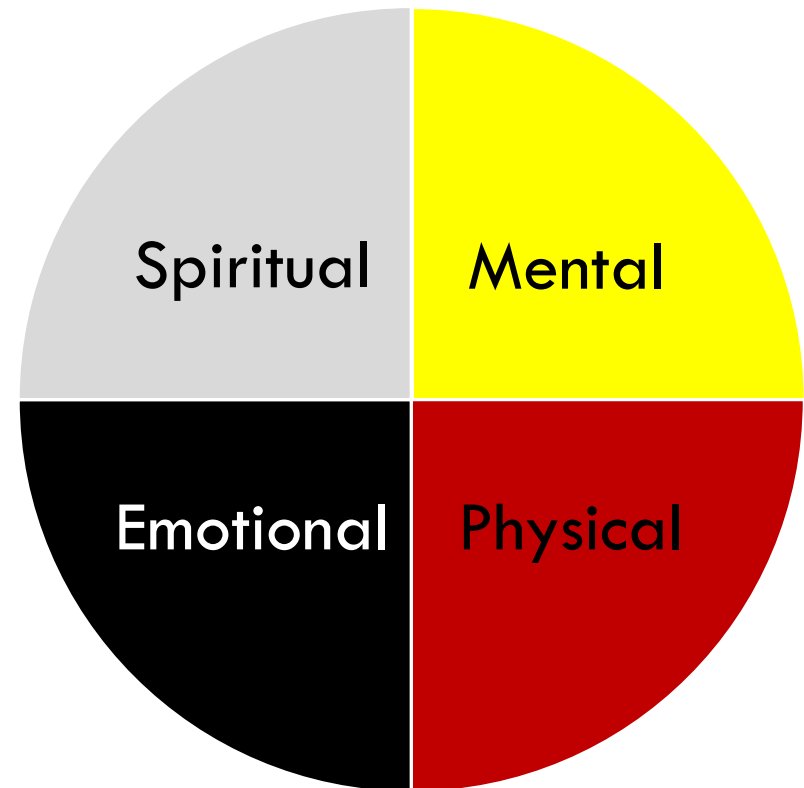
With electricity, Kanaka embraced the “new” and we now power our homes, economy, technology and our collective future in a different way (*but still sustainable*).

WHAT DOES QUALITY OF LIFE MEAN TO KANAKA?

Understanding the Principles

- Ask, when you need something
- Take only what you need, no more
- Take it in, take it out
- Bring the land back to its natural state

Maintaining the Balance



THEN CAME CONTACT...

Year	Event
1808	First contact with the Nlaka'pamux
1858	Gold rush and the Fraser Canyon War
1858	Colony of British Columbia declared
1867	Canada's Confederation
1871	British Columbia joins Canada
1876	Indian Act is established
1878	Reserves are allocated to Kanaka Bar
1956	Kanaka Bar members become Canadian citizens
1973	Calder decision
1978	Kanaka Bar commences the process of 'recovery'

Author: Patrick Muehl
Summer 2010

Memory, Loss and Sorrow

For the community of Kanaka Bar, the Kwoiek Creek Hydro project represents an assertion of indigenous rights which is consistent with both Nlaka'pamux law and present day business practices and laws. The hydro project is also an opportunity to improve present day conditions for community members and for future generations too. The development, construction and operation of the hydro project will involve and affect almost every person and entity that has ever had relationships with the community since formal contact occurred in 1808.

In every day discussions with the affected parties and as part of the harmonised environmental review of the Kwoiek Creek Hydro Project submitted to the Environmental Assessment Office in September of 2008, it became apparent that many people have forgotten (or possibly never knew) what was done to the Indigenous populations of Canada as part of the colonization process that was instituted.

How does one therefore provide the background information and create an understanding about the past, present and the future without writing a massive history book, upsetting people and avoid accusations of bias and allegations of inaccuracy, exaggeration or fear mongering. I don't think it's possible, so the best that could be done is to tell a story about the Kwoiek Creek Hydro Project and what it means to the community of Kanaka Bar and thus allow the reader to draw their own conclusions.

I consider it important to remember that while the following is about the history, impacts of contact and present day realities of the community of Kanaka Bar, every indigenous Nation and every Indigenous community in the whole world, not just BC and Canada, has a similar story of its own.

The Way Things Were (Memory)

I always understood that there were five fundamental components that defined each of the separate Indigenous Nations in what has now become known as British Columbia. That is their individual relationships to the land, their language and culture, their social structures and the way in which they educated their children.

One such Indigenous Nation is the Nlaka'pamux¹. The external boundaries of the Nation are well known and were respected by the adjoining Indigenous Nations prior to contact and by both the colonial and US governments for a period of time after contact. Each of the 16 present day communities of the Nlaka'pamux Nation share the same language, culture, and have similar past and present day lifestyles and history. Kanaka Bar is one of these communities.

For over 8,000 years, Nlaka'pamux communities lived on the land and were sustained by the land and its resources. A self reliant, self governing people, with a distinct language,

¹ Spelling is taken from the 1994 Natural Resources Resolution. The resolution includes a map of the external boundaries of the Nation.

R

LET'S DO SOME SIMPLE MATH...

1978
– 1808

170 years



- Anger
- Despair
- Frustration
- Dependency
- Addictions
- Suicides
- Other social ills



- People
- Time
- Technology
- Money

To reverse all the negativities, Kanaka pursued resilience and prosperity by developing a renewable energy project

IT TAKES TIME TO DO THINGS RIGHT... 36 YEARS !

- ❑ 1978 – Birth of an idea
- ❑ 1990 – Water licence filed
- ❑ 2005 – Found a Partner
- ❑ 2006 – EPA with BC Hydro
- ❑ 2009 – EAO certificate
- ❑ 2010 – Agreements with impacted communities in Nation
- ❑ 2011 – Point of no return
- ❑ 2014 – Commercial Operation Date



WHY CHOOSE RENEWABLES?

Clean or Renewable Energy has become an important industry for First Nations. It has been an industry First Nations have embraced because projects can be developed with **minimal impacts** to their rights, environment, and **within their values**

WHAT HAVE WE DONE SINCE 2011?

Engaged Community

- Every third Thursday
- Regular communication channels

Built a Team

- Members
- Partners
- Advisors
- Funders

Strengthened Governance

- Codes
- Laws and By-laws
- Policies and practices

Created a Strategy, Vision and Plan

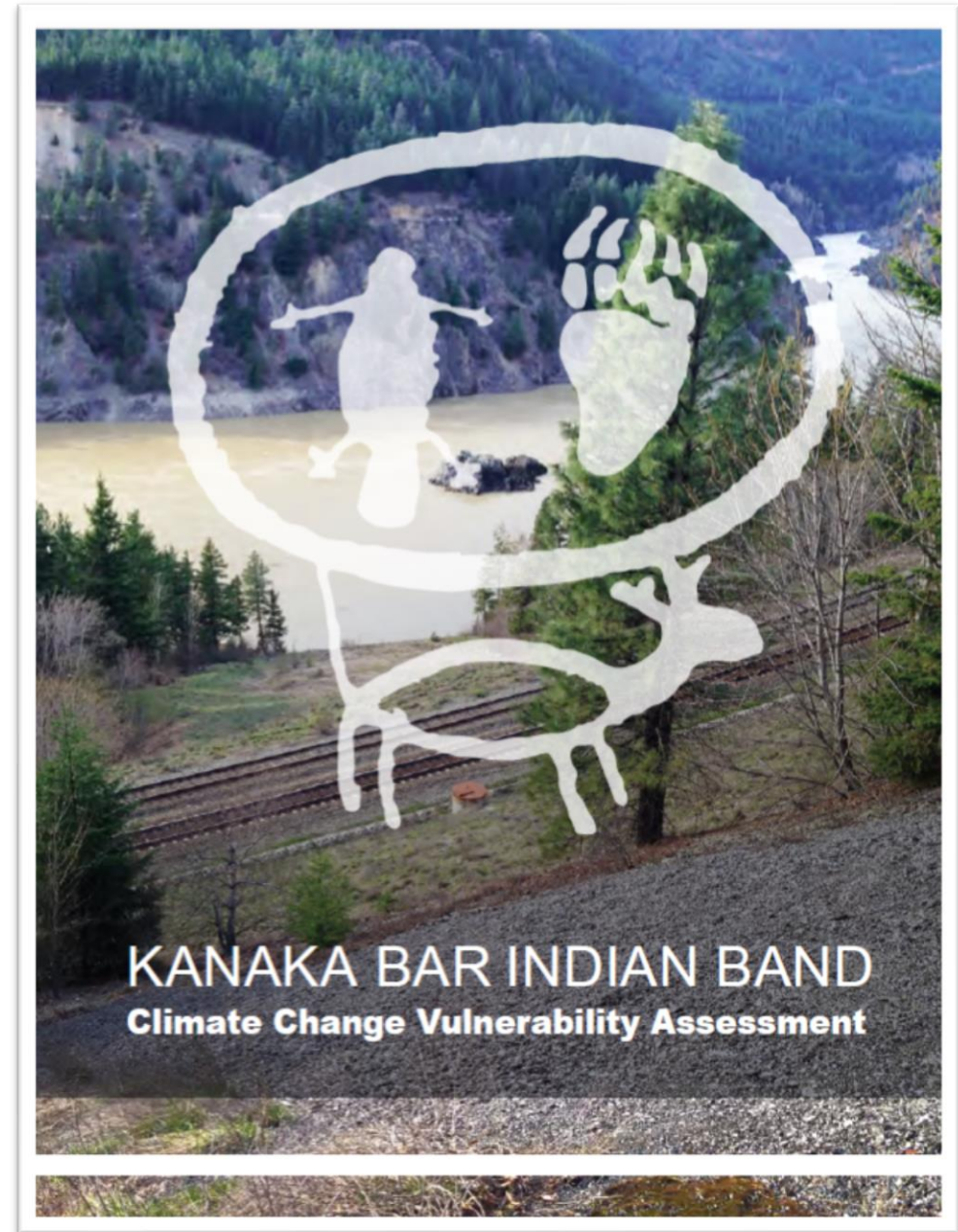
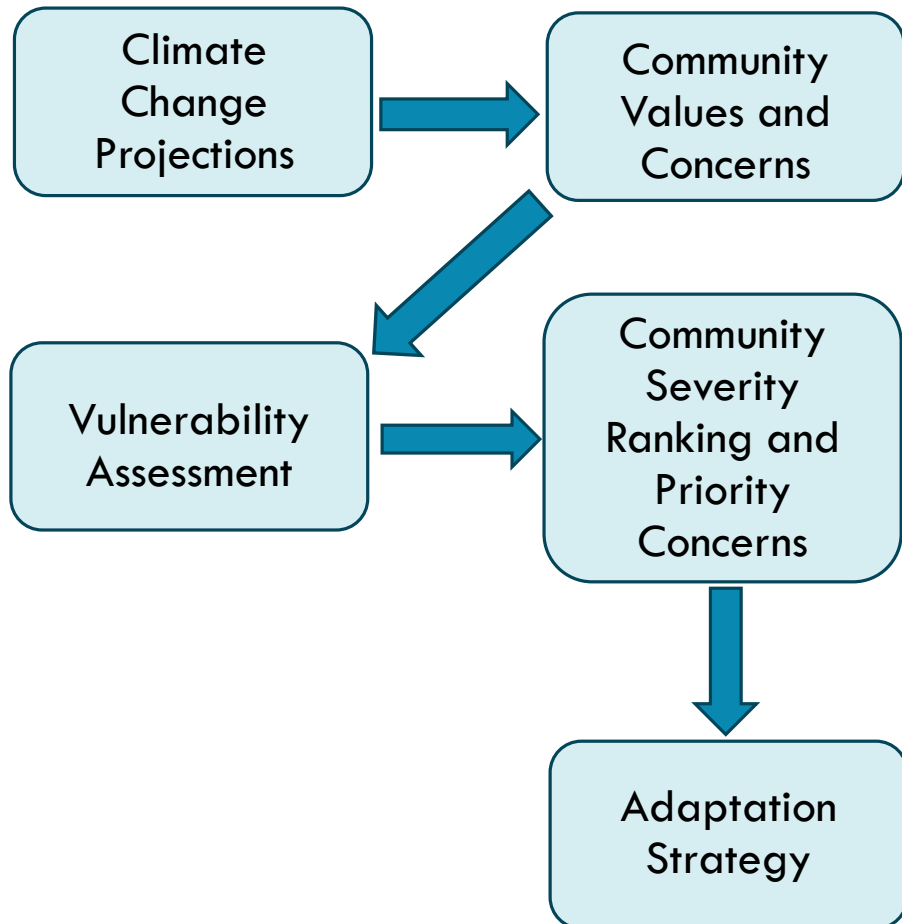
- Strategic Plan
- LUP
- CEDP

Implemented Plans and Monitored Actions

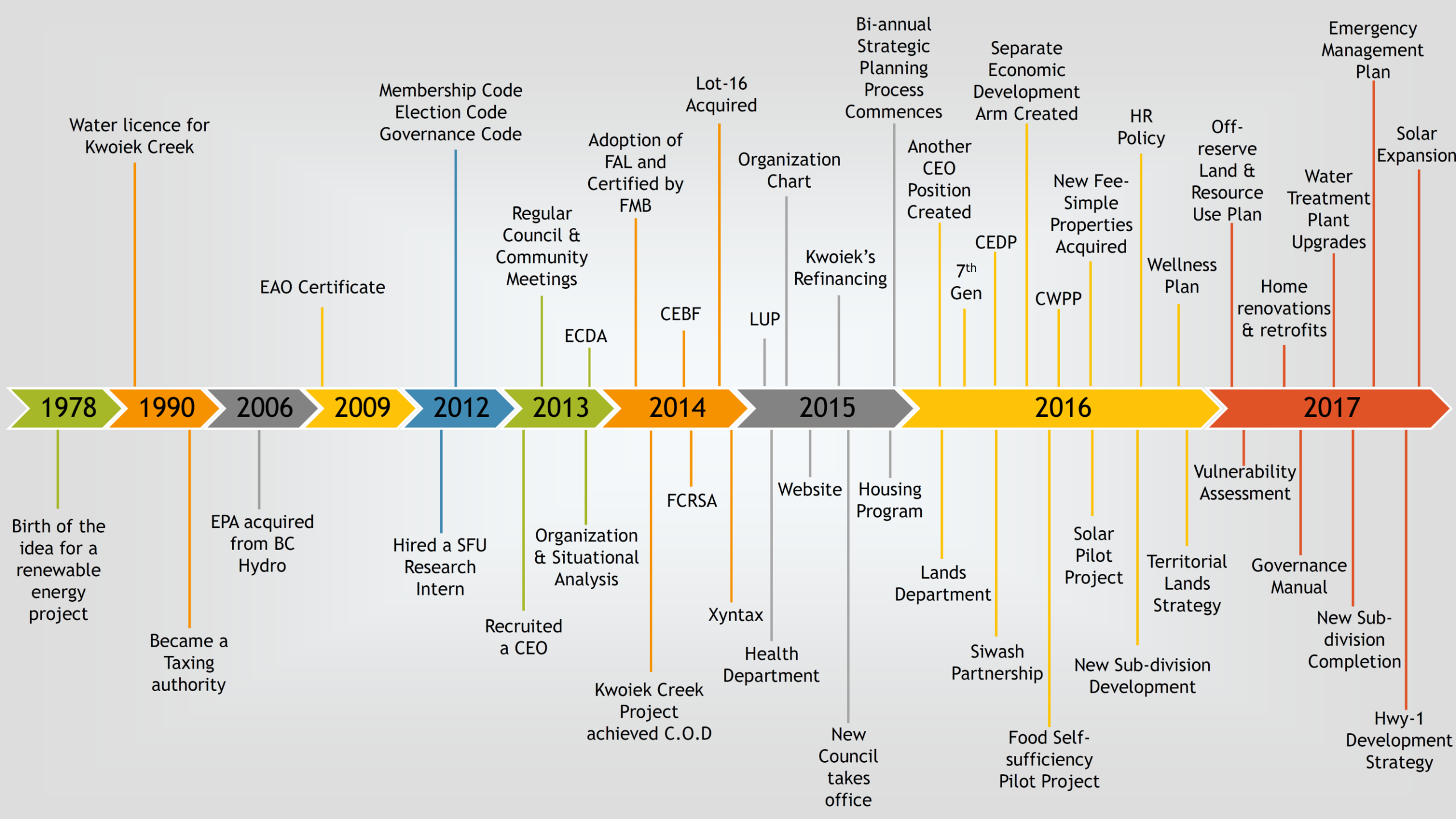
- First Monday and third Thursday meetings
- Bi-annual Plans

Observing our surroundings and developing an adaptation plan for the environment and economy of tomorrow

CLIMATE CHANGE ADAPTATION



Available online at: www.kanakabarband.ca



ECONOMIC DEVELOPMENT PLAN

Food
[Goal: 20 backyard & 2 community gardens, 3 beehives & 100% members engaged in traditional food & medicine practices]

Energy
[Goal: 100% energy self-sufficient]

Finance
[Goal: 75% Own-source Revenues as a percentage of total revenues]

Employment & Community Readiness
[Goal: 1% better than Provincial Unemployment rate]

Self-sufficient, Sustainable & Vibrant



Kanaka Bar Indian Band

Community Economic Development Plan

March 2016



Available online at: www.kanakabarband.ca

2015 Community Vision Statement

To become a self-sufficient, sustainable and vibrant community!

Has evolved into 4 intertwined goals

Employment & Community Readiness

- Office
- Field
- Commercial
- Retail

Food

- Meats
- Fruits
- Vegetables
- Beverages

Energy

- New builds
- Renovations
- Demand-side management
- Production

Financial

- Royalty
- Taxation
- Revenue Sharing Agreements
- Business Revenues

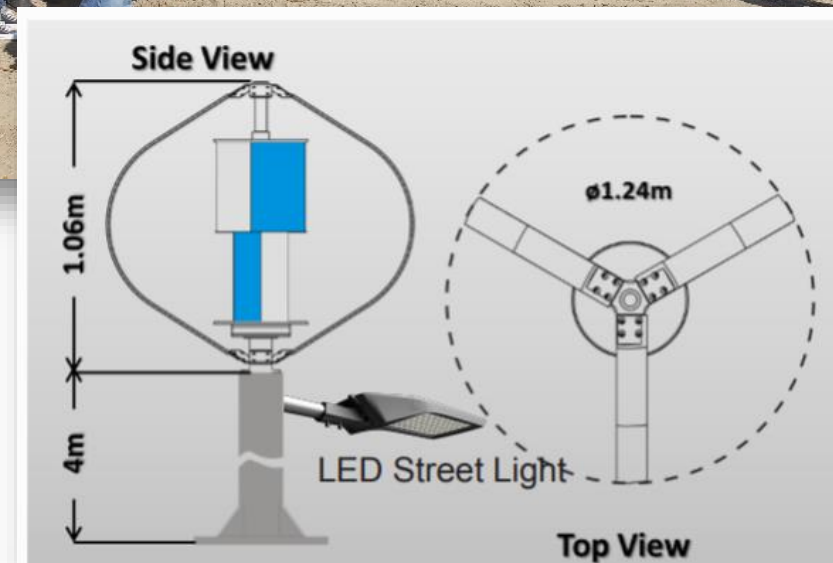
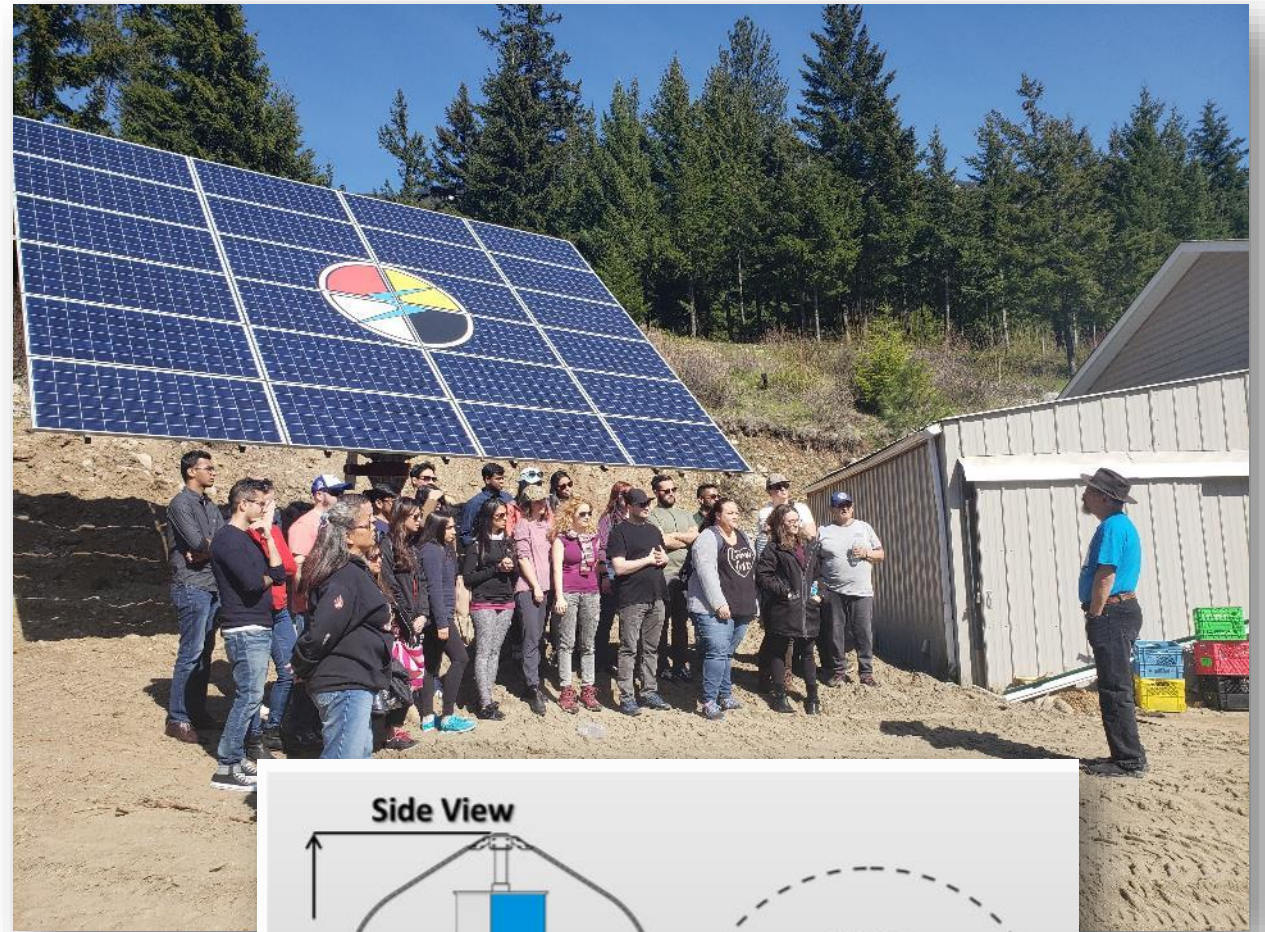
#1 - PRODUCTION

Operations Phase:

- ❑ 49.9 MW Kwoiek Creek (run-of river)
- ❑ 6 kW Band Office (ground solar)
- ❑ 4 kW Health Office (pillar solar)
- ❑ 7.2 kW Maintenance Shed (solar tracker)
- ❑ 520 w Security Cameras (roof solar)

Planning Phase:

- ❑ 2.2 kW Highway-1 Street Lights (solar/wind)
- ❑ 500 kW Siwash Creek (run-of-river)



#2 – NEW BUILDS

- ❑ Developed a 10-unit new sub-division at Upper Kanaka operational since March 2018
- ❑ Planning another sub-division at Lower Kanaka - to be constructed in 2019-20
- ❑ Planning to develop rest stop infrastructure on Highway-1 lands
- ❑ We are incorporating energy efficiency and self-sufficiency in the design phases of all new development at Kanaka



#3 RENOVATIONS

- ❑ Focusing on:
 - Immediate health and safety upgrades
 - Roofing, decks and plumbing etc.
 - Energy efficiency upgrades
 - Air sealing, draft proofing and insulation etc.
 - Capacity development for workers
 - Home maintenance education for residents
- ❑ 15 existing homes being renovated
- ❑ Currently assessing results of works done in year one and planning for the next year
- ❑ Achieved air leakage reduction of 37.3%



#4 – DEMAND SIDE MANAGEMENT

- Working with community members to:
 - Understand their BC Hydro bills
 - Practice energy conservation and efficiency actions each week
 - Calculate points each month based on actions taken
 - Participate in energy saving workshops
- Goal is to understand community's energy data, help people understand the benefits of energy conservation and plan towards energy self-sufficiency for the community.



HOW ARE WE TRANSFORMING IDEAS IN TO REALITY?

Idea

- Identify a need
- Find an opportunity
- Establish goals
- Explore with funders
- Find a champion
- Start running initial numbers (site spec.)
- Identify risks
- Consider constraints
- Seek approvals

Planning

- Develop a team
- Finalize permitting
- Develop business case
- Create a schedule
- Plan to mitigate risks
- Arrange for procurement
- Continue to explore with funders
- Communicate with community

Execution

- Manage teams
- Have the funds ready to disburse
- Implement the development plan
- Document progress
- Communicate
- Get feedback from teams
- Start thinking above operations phase

Monitor

- Monitor progress against the plans
- Collect data, especially deviations
- Take corrective measures
- Compare budgets with actual
- Communicate progress

Reality

- Indicate closing to decision-makers
- Ensure it is complete
- Celebrate success
- Document what was achieved
- Learn from failures
- Finalize reporting
- Communicate final completion

WHO ARE WE DOING ALL OF THIS WITH?

- ❑ **Community members** who show interest in the community life
- ❑ **Champions** who gather the members and organized meetings
- ❑ **Legal advisors** who assist with understanding legal system
- ❑ **Business partners** who help us understand our businesses
- ❑ **Planners** who are passionate about what they do and what we do
- ❑ **Financial advisors** who help us understand current and future revenues
- ❑ **Funders** who were provide us with grants and various other forms of funding
- ❑ **Bankers** who we deal with on a day to day basis
- ❑ **Governments** who we share our territory with

WHY DO SMALL LOCAL PROJECTS?

- ❑ More manageable
- ❑ Minimum ground disturbances
- ❑ Can be completed faster
- ❑ Impact is observed and experienced locally
- ❑ Allows for new skills development
- ❑ Constant monitoring and security
- ❑ Reduces monthly operational costs
- ❑ Allows to collect site-specific data
- ❑ Creates local entrepreneurs and champions
- ❑ Money stays in town and spent in town
- ❑ Makes us resilient and less dependent on others
- ❑ Creates diversity for the region and reduces risks

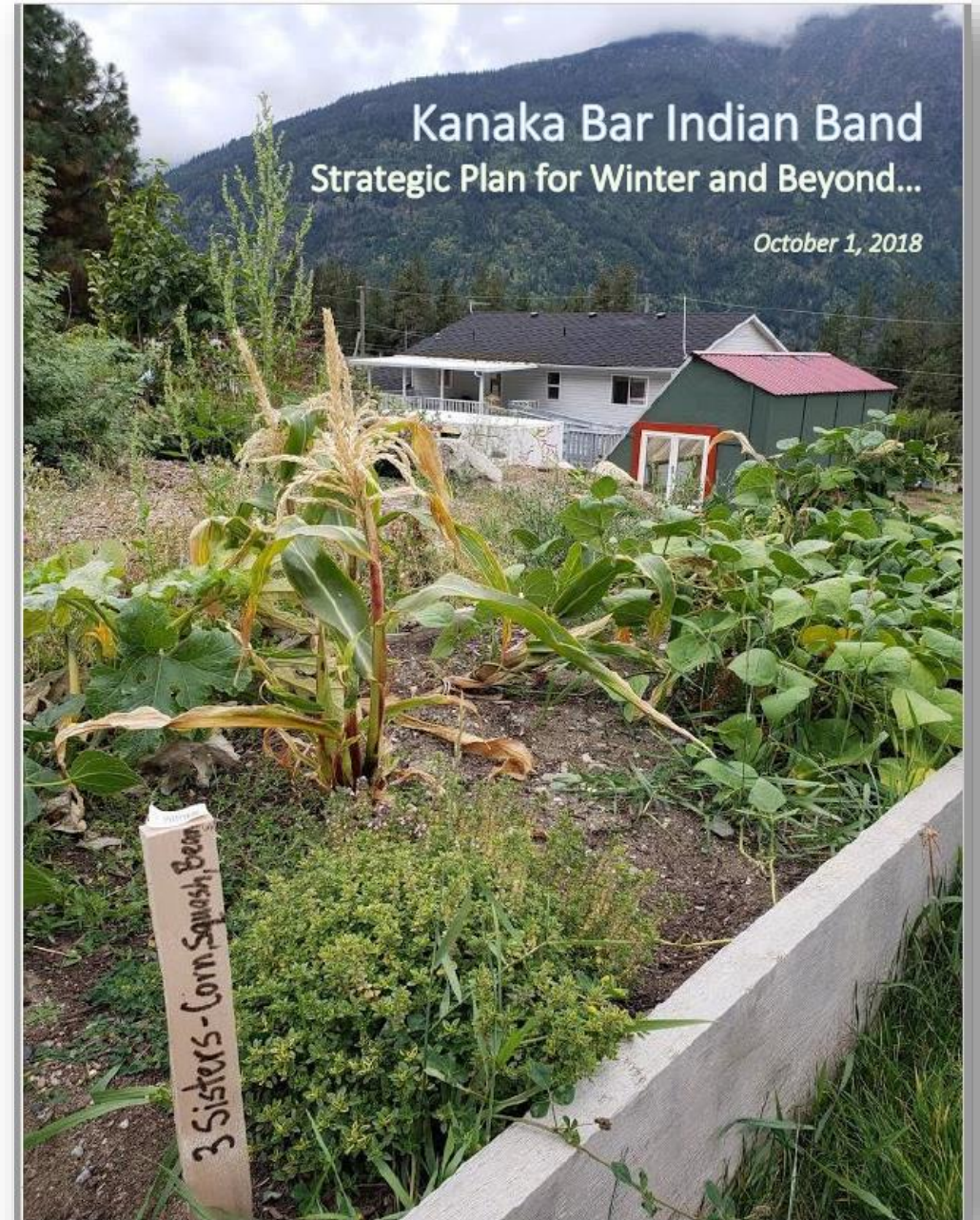




WHAT'S **NEXT**
FOR KANAKA?

BI-ANNUAL PLANS

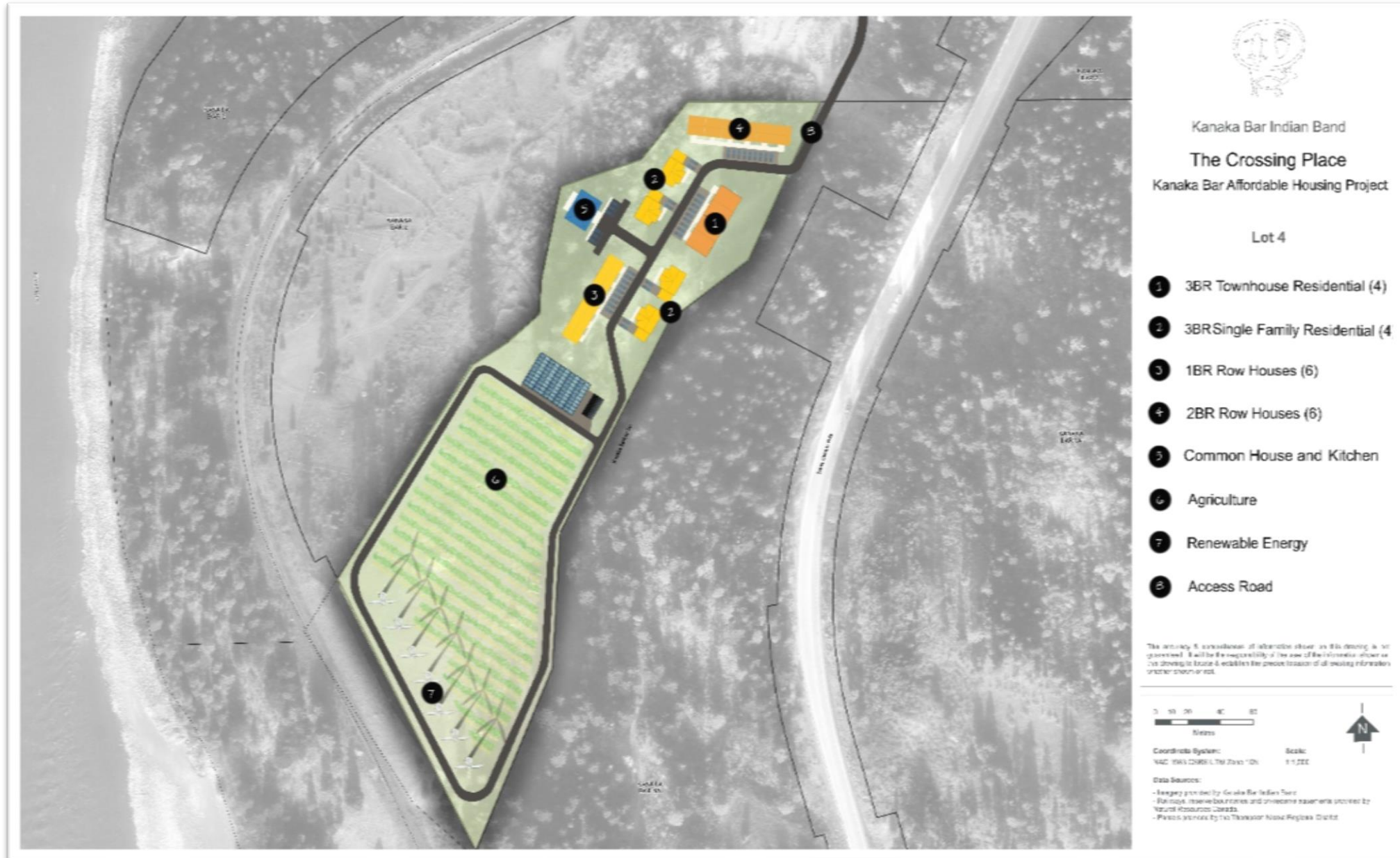
- ❑ Backward and forward looking document that reports on the last six months and plans for next six
- ❑ Assists in maintaining focus on the projects and opportunities listed in CEDP implementation schedule and be realistic about them
- ❑ Communicates with members, leadership, staff, governments, funding agencies, financial institutions, business partners, advisors and professionals
- ❑ Completed twice each year and available online at:
 - <http://www.kanakabarband.ca/our-library/bi-annual-plans>



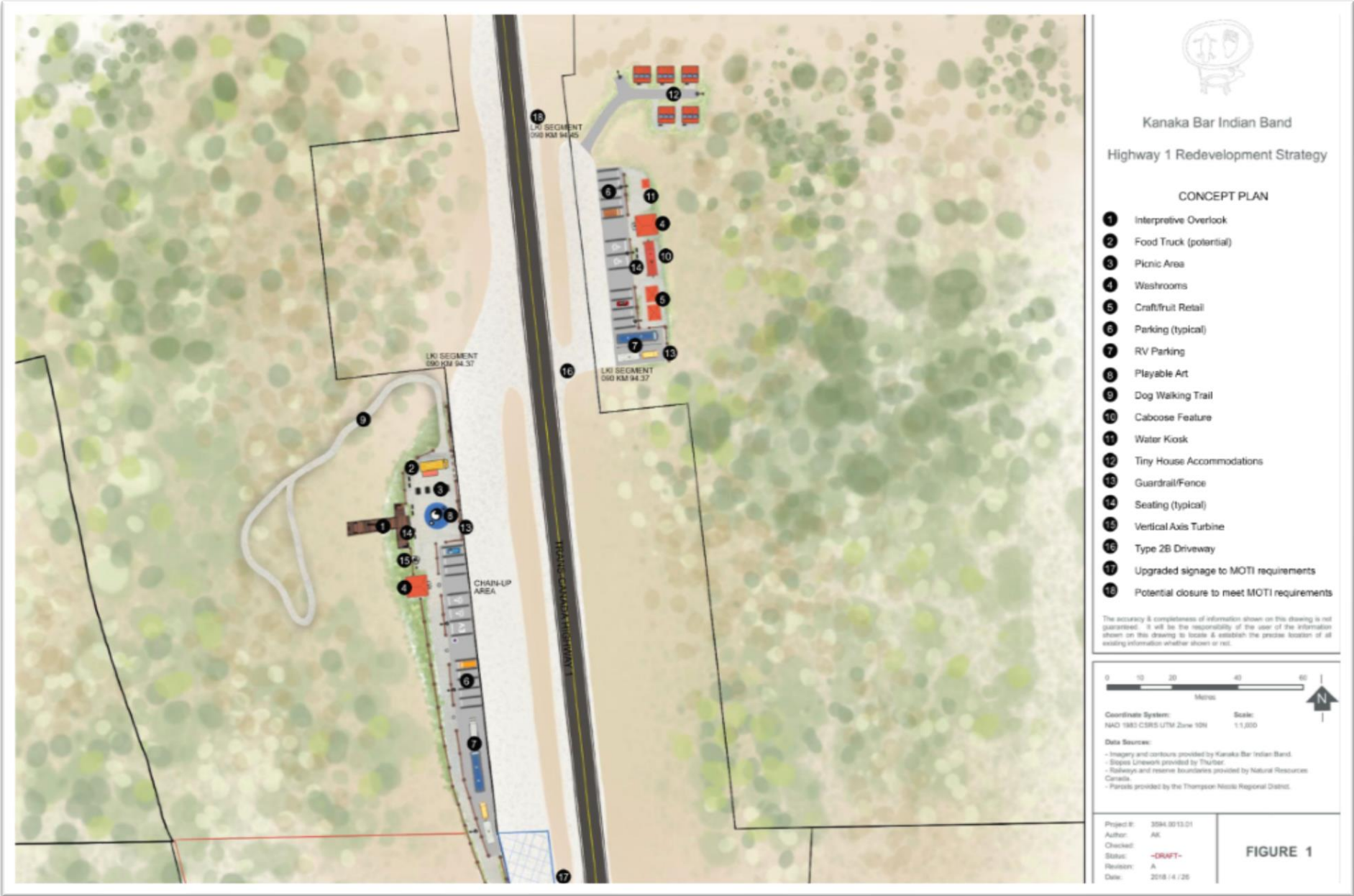
CEDP IMPLEMENTATION SCHEDULE

Economic Development Theme		Year 1 2016-2017	Year 2 2017-2018	Year 3 2018-2019	Year 4 2019-2020	Year 5 2020-2021
1	Employment Self-Sufficiency and Community Readiness	<ul style="list-style-type: none"> Launch Seventh Generations Trust Implement strategies that introduce Kanaka Bar membership to land and resource uses. 	<ul style="list-style-type: none"> Strategic investment into Kanaka's youth Invest in the development and implementation of a Kanaka Bar library. 	<ul style="list-style-type: none"> Provide hands on experience to members that are eager to work 	<ul style="list-style-type: none"> Provide hands on experience to members that are eager to work 	<ul style="list-style-type: none"> Review and update economic development plan
2	Financial Self-Sufficiency	<ul style="list-style-type: none"> Develop Siwash Creek Hydropower Project Implement Community Housing Policies 		<ul style="list-style-type: none"> Complete water bottling feasibility study 	<ul style="list-style-type: none"> Complete large wind power feasibility study 	<ul style="list-style-type: none"> Review and update economic development plan
3	Energy Self-Sufficiency	<ul style="list-style-type: none"> Develop pilot solar project Implement home energy efficiency upgrades 	<ul style="list-style-type: none"> Raise financial resources to implement other community energy projects <ul style="list-style-type: none"> Micro-hydro Micro-wind 	<ul style="list-style-type: none"> Develop larger net metering clean energy project(s) to support energy self-sufficiency 		<ul style="list-style-type: none"> Review and update economic development plan
4	Foundational Community/Infrastructure Development to Support Self-Sufficiency	<ul style="list-style-type: none"> Acquire key off-reserve lands of interest including: <ul style="list-style-type: none"> Kanaka Bar Restaurant lands Lot 4 Crown lands of interest 		<ul style="list-style-type: none"> Confirm desired development on key lands of interest off-reserve with a highest and best use study Develop site and conceptual plans for select properties 	<ul style="list-style-type: none"> Initiate land development project #1 <ul style="list-style-type: none"> HWY 1 redevelopment High density housing (Apartments/alternative housing) and/or Elders complex 	<ul style="list-style-type: none"> Initiate land development project #2 Review and update economic development plan
5	Food Self-Sufficiency	<ul style="list-style-type: none"> Develop community garden (permaculture project) Provide educational resources (books, soil, seedlings) to members who wish to do home gardens Establish a community bee hive 	<ul style="list-style-type: none"> Assist members to prepare residential backyard gardens Plant fruit trees throughout community 	<ul style="list-style-type: none"> Prepare lands for larger agricultural venture (as identified in the Land Use Plan) Establish community canning infrastructure 	<ul style="list-style-type: none"> Use prepared lands for community agriculture venture Invest in greenhouse(s) if feasible 	<ul style="list-style-type: none"> Review and update economic development plan

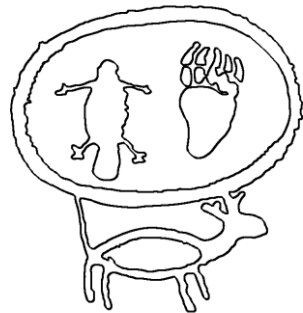
LOWER KANAKA DEVELOPMENT



HIGHWAY-1 REDEVELOPMENT



THANK YOU



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