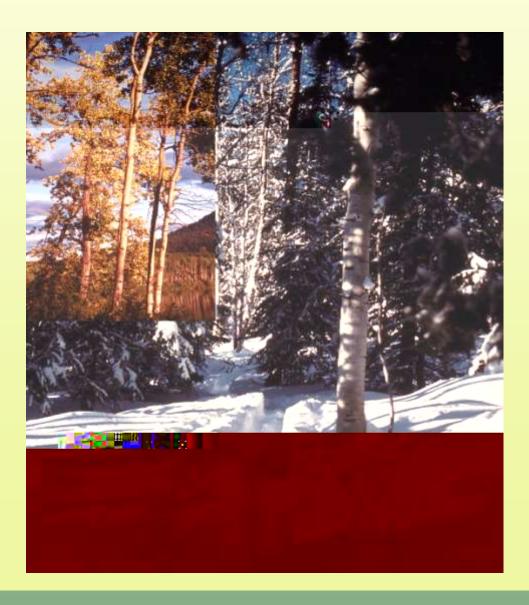
Ecosystem-based Conservation Planning towards

Ecological and Cultural Sustainability on

Xeni Gwet'in Lands





is an

ECOSYSTEM PICTURE





Wetland—Forest Landscapes



Interesting Terminology

ECOSYSTEM

eco (Greek) means home

HOME SYSTEM



ECONOMICS

nomics (Greek) means management

HOME MANAGEMENT

Ecosystem Economics

means

Management of the Home System



starts with

ECOSYSTEM PICTURE

does not start with

Human Values...
Human Activities







Human values/activities include:

- Ranching
- Tourism
- Eco-Forestry
- Wilderness Designations—Wild Horse "Preserves"
- Forest Restoration





primary goal...
to maintain or restore

EcologicalIntegrity

Keeping all of the parts all of the time.







maintaining or restoring

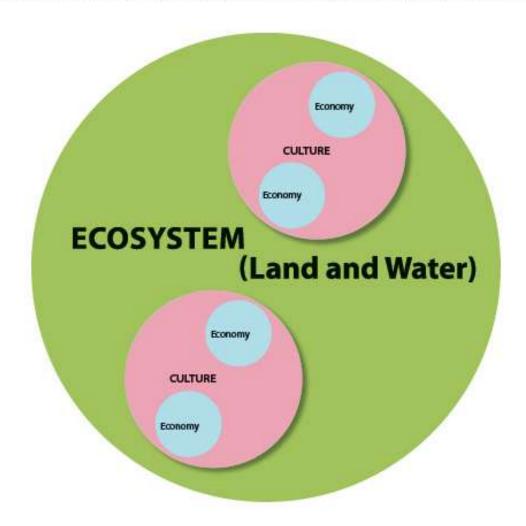
Ecological Integrity

Necessary to sustain human cultures and their economies





AN ECOSYSTEM-BASED CONSERVATION PLAN IS BASED UPON A HIERARCHIAL RELATIONSHIP



Economies are part of human cultures, which are part of ecosystems.

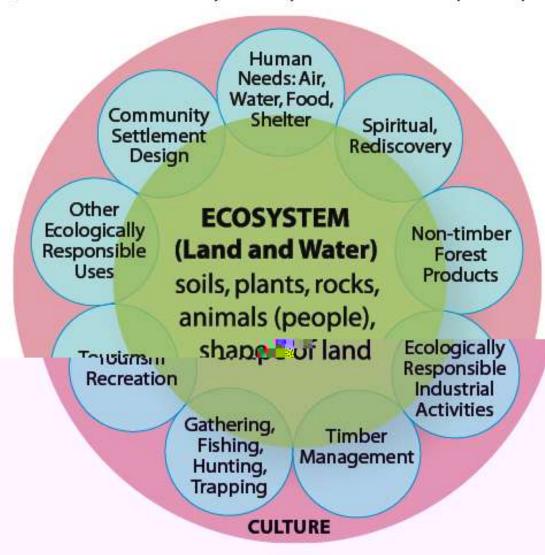
Therefore, maintaining the integrity of ecosystems provides the basis for sustainable cultures, including their economies.

CONCEPTUAL VIEW OF AN ECOSYSTEM-BASED CONSERVATION PLAN

— a framework for making decisions —

First, protect the land and water—ecosystem.

Second, use the land and water—ecosystem in ways that maintain all of the parts and processes.



Ecosystem-based conservation plans are community-based.

Healthy communities have place, are diverse, and take responsibility for their actions, ensuring that the needs of future generations guide their actions in the present.

Community-based plans share decision-making power, are inclusive of most interests, and develop clear lines of accountability for activities.

Ecosystem-based
Conservation Planning
maintaining or restoring
Ecological Integrity

Necessary to slow global warming most important issue facing Xeni Gwet'in





Ecological Integrity requires Intact Ecosystems (Forests) to slow global warming

- Corridors for movement of species
- Sources of genetic variants warmer genotypes
- "Uniform" storage and release of water—counteract drought stress, freeze-thaw damage, & altered flow regimes
- Delay permafrost melt by decades/centuries
- Late seral/old-growth/mature forests best able to:
 - store & sequester carbon
 - modify effects of warmer, drier
 - furnish "replacement" & "adapted" individuals





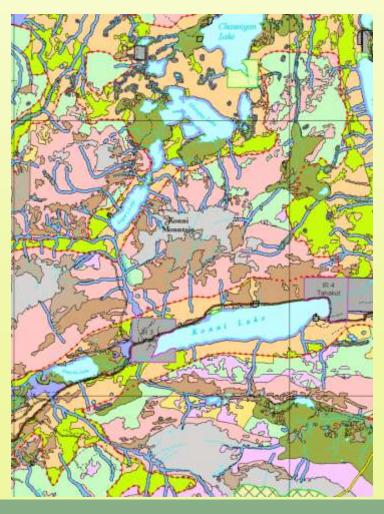


Xeni Gwet'in Ecosystem-based Conservation Plan

Interpretive Maps

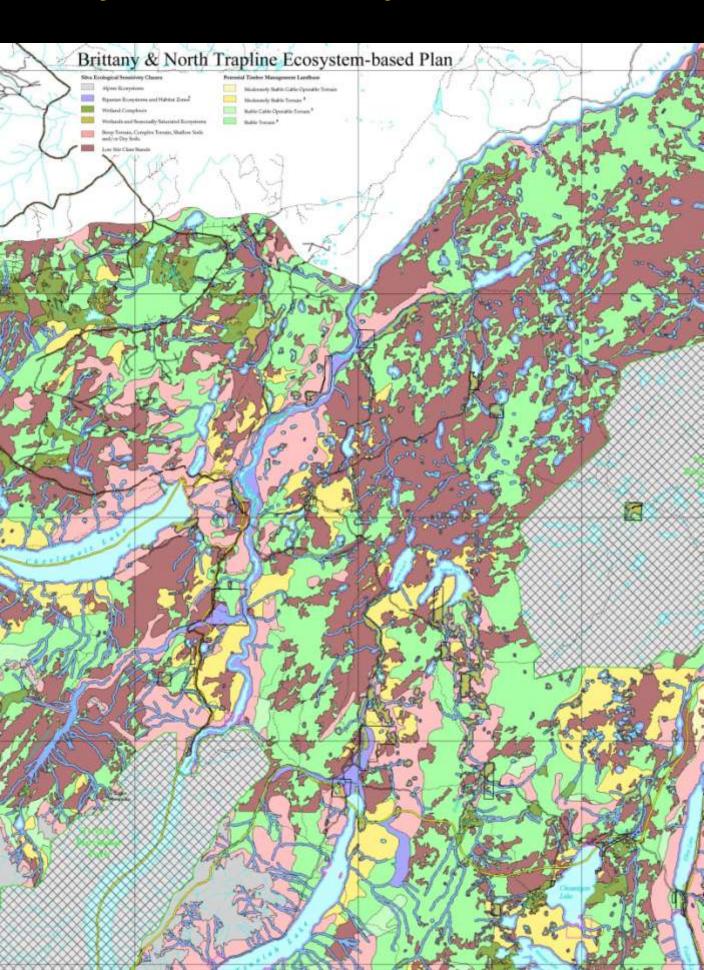
show the

ECOSYSTEM PICTURE

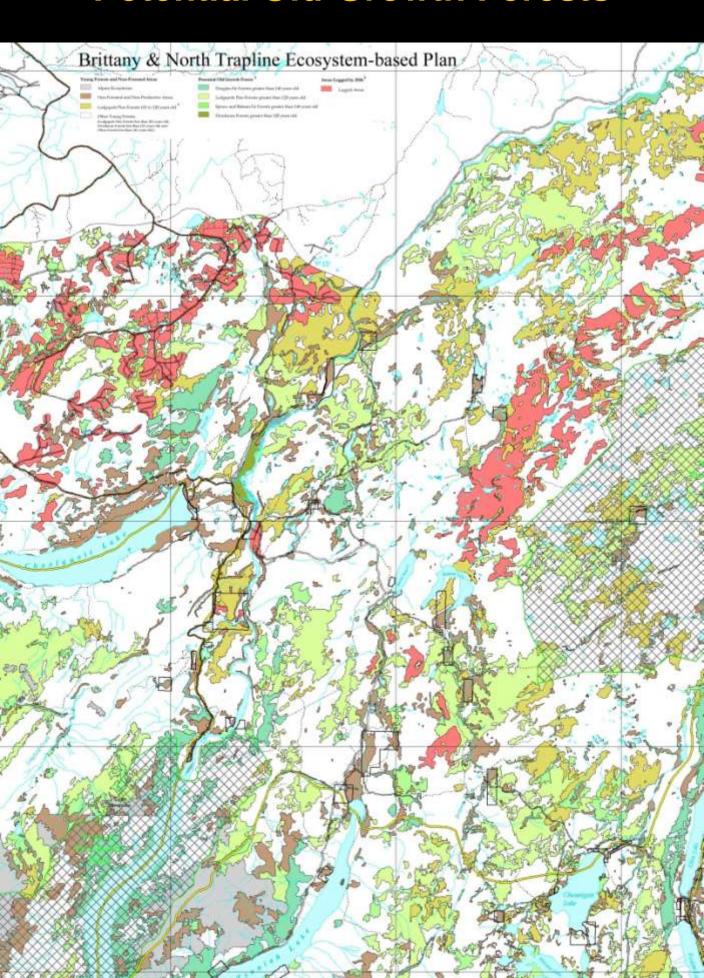




Ecosystem Sensitivity to Disturbance

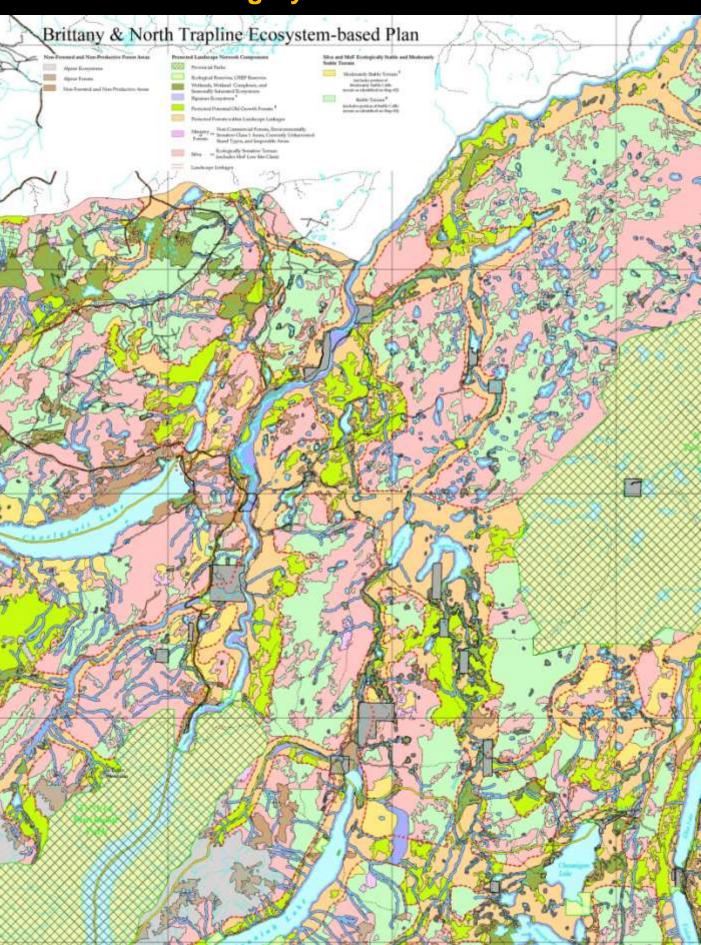


Potential Old-Growth Forests



Protected Landscape Network

The minimum framework to protect ecological integrity—intact forests



Riparian Ecosystems



- ... Wet forests and upland forests adjacent to rivers, streams, lakes, ponds, & wetlands
- ...Movement corridors/linkages
- ... Energy storage & regulation
- ...Biological "Hot Spots"







Riparian Ecosystems



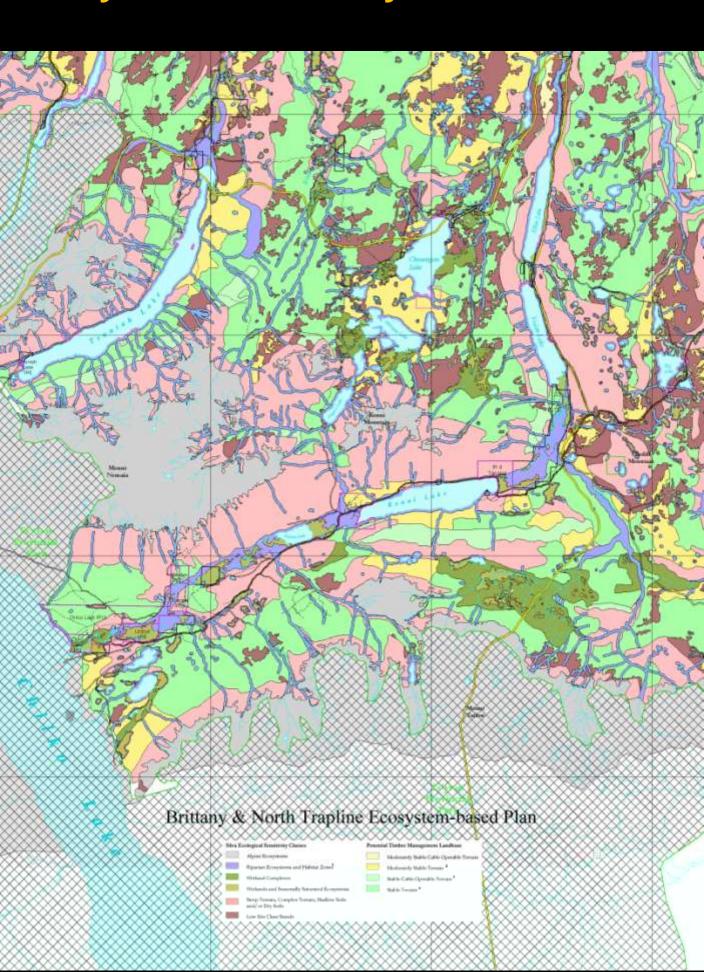
... wetland - forest complex—high levels of biological diversity & used by most animal species in the landscape



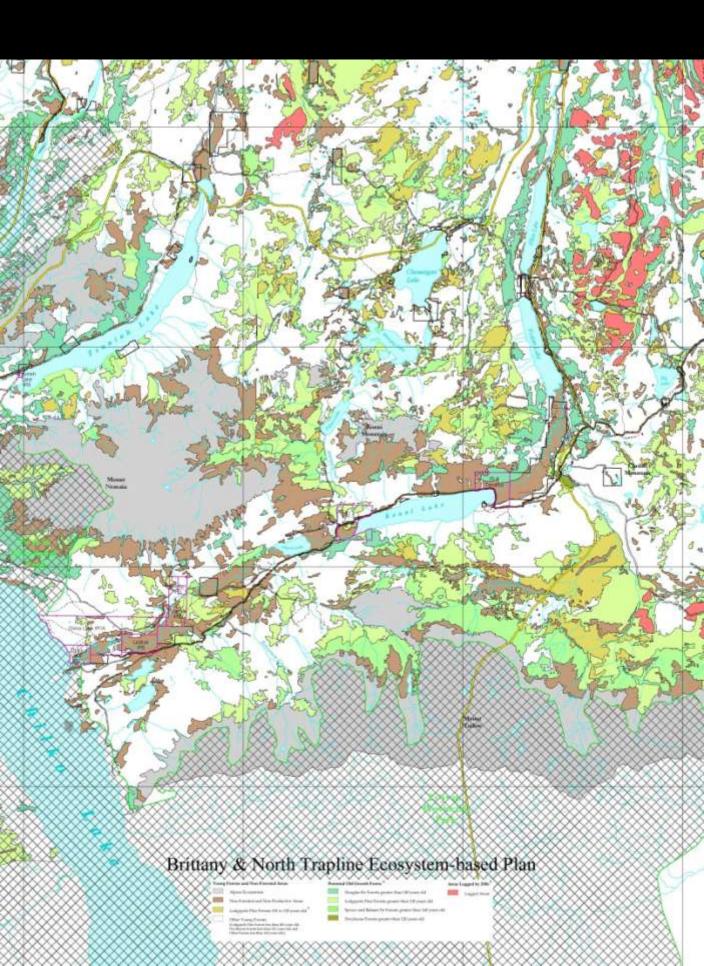




Ecosystem Sensitivity to Disturbance

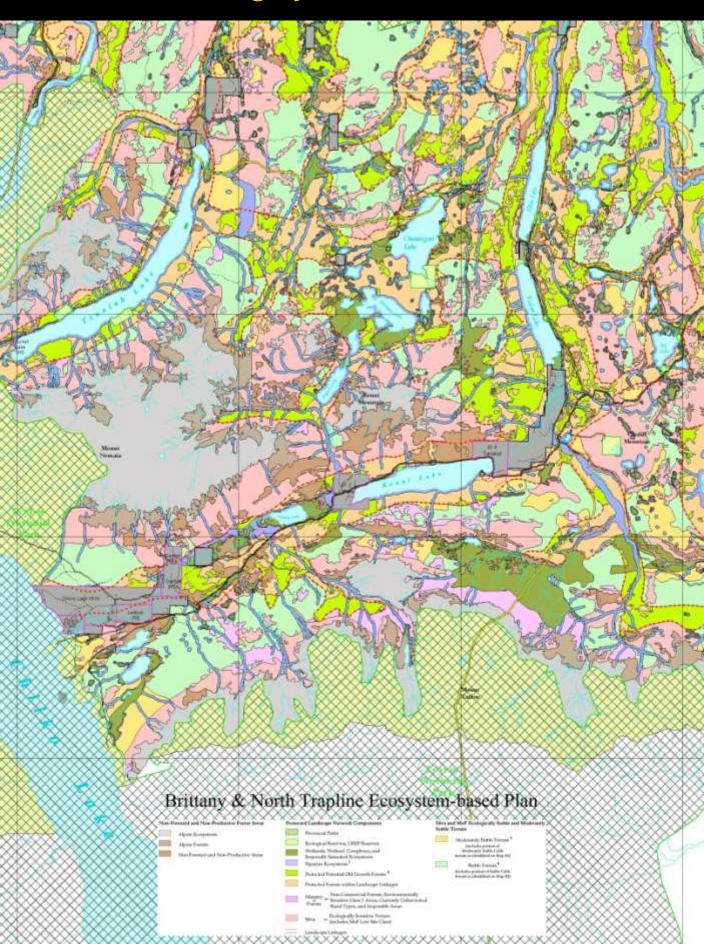


Potential Old-Growth Forests

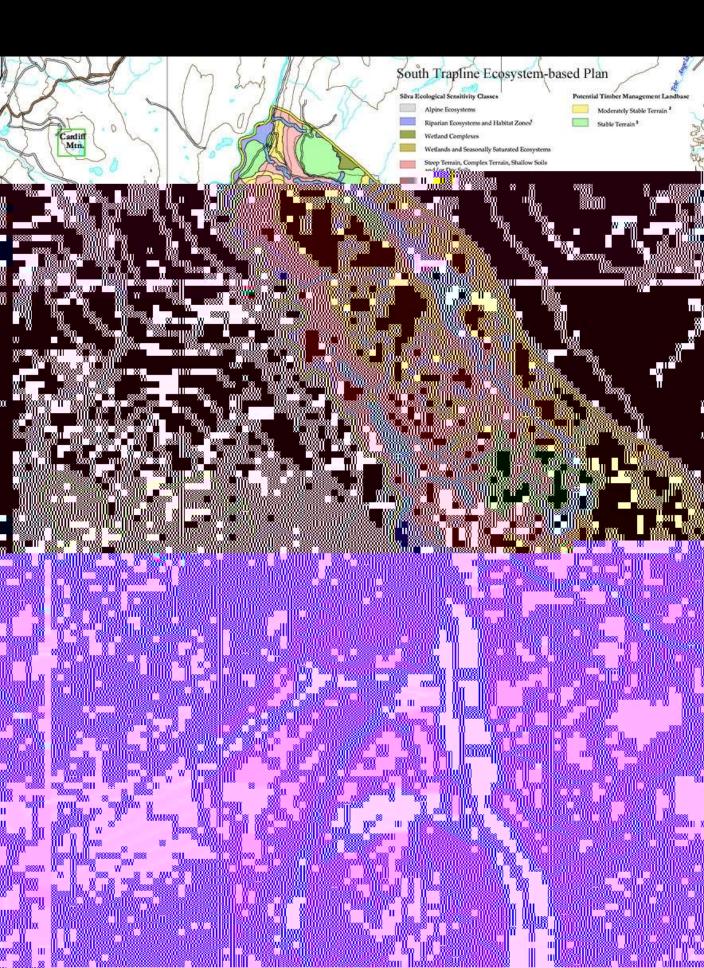


Protected Landscape Network

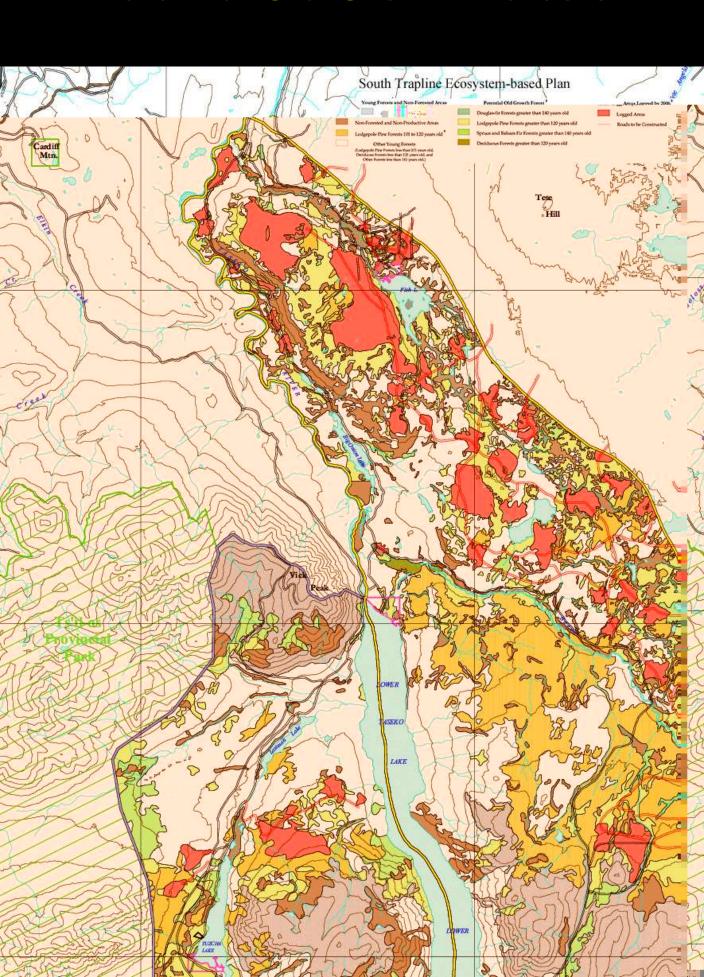
The minimum framework to protect ecological integrity—intact forests



Ecosystem Sensitivity to Disturbance



Potential Old-Growth Forests



Protected Landscape Network

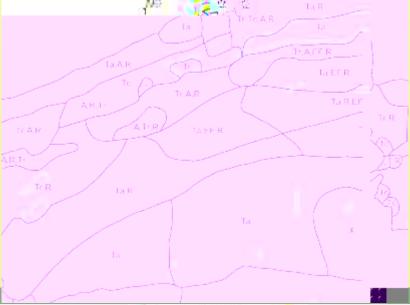
The minimum framework to protect ecological integrity—intact forests



Xeni Gwet'in Ecosystem-based Conservation Plan

Interpretive Maps show Human Use Areas

Places where human cultural and economic activities take place while maintaining ecological integrity—intact ecosystems





Xeni Gwet'in Ecosystem-based Conservation Plan

Interpretive Maps show Human Use Areas

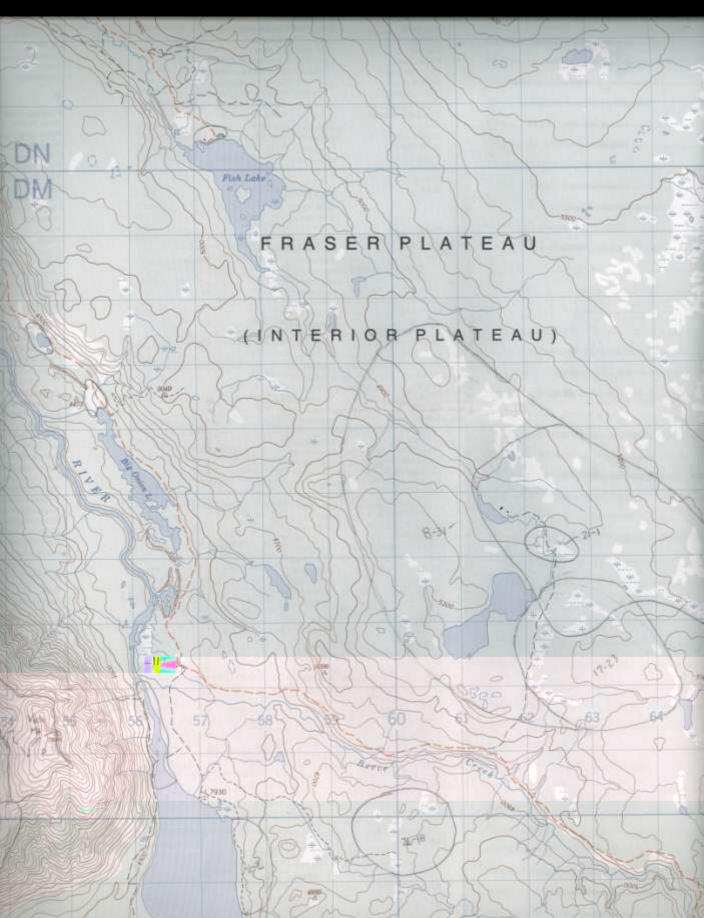
Designated by Xeni Gwet'in

through

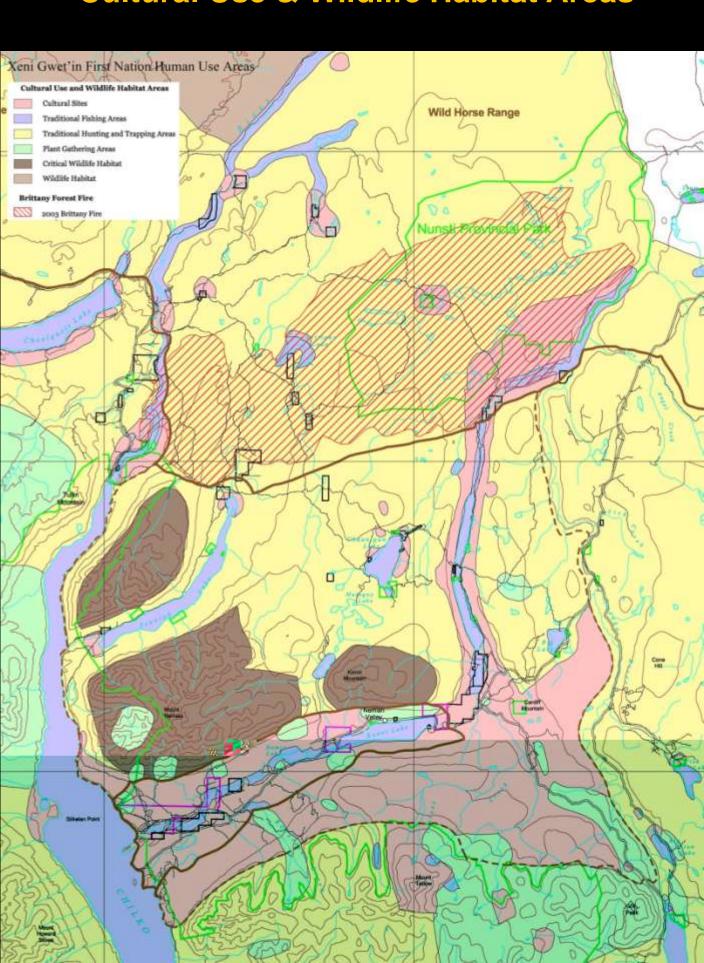
Community-based Discussions and Decision-making



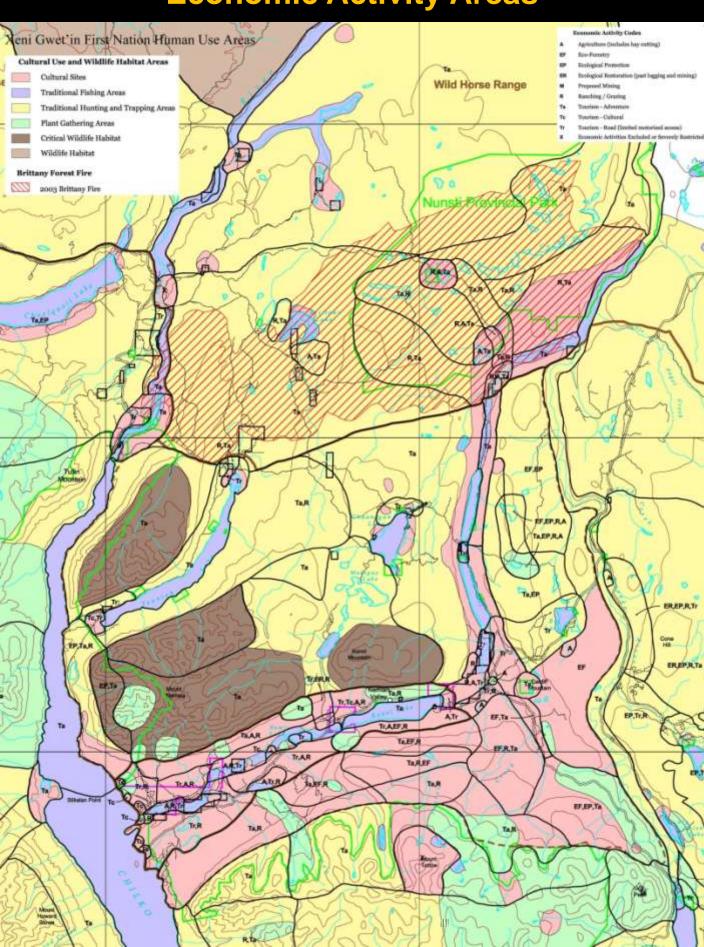
Xeni Gwet'in—Interview Data for Cultural Use & Wildlife Habitat Areas



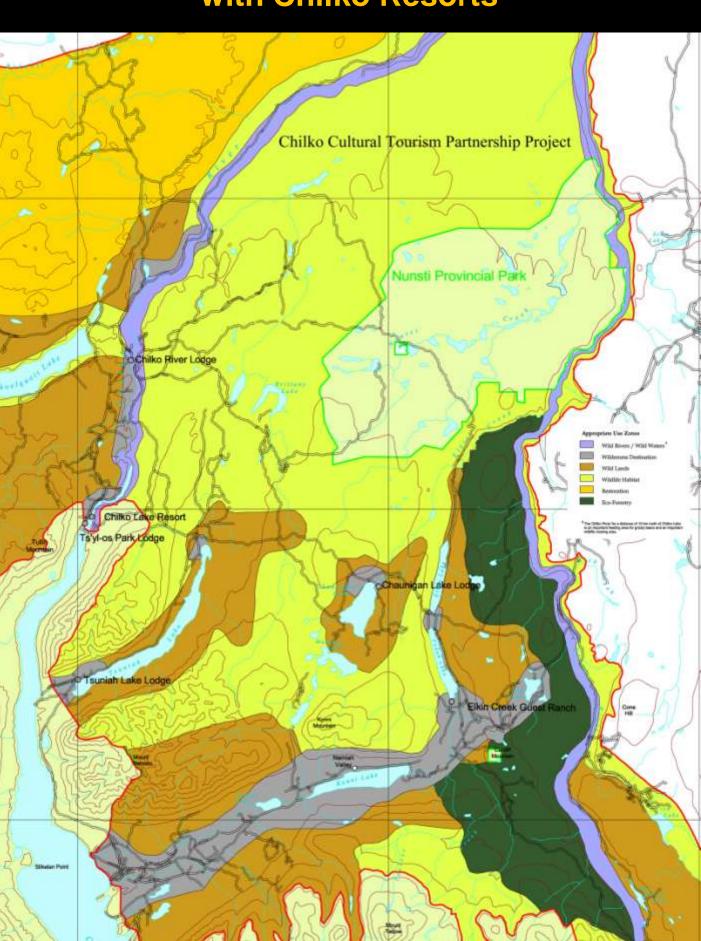
Xeni Gwet'in designated Cultural Use & Wildlife Habitat Areas



Xeni Gwet'in designated Cultural Use & Wildlife Habitat Areas Economic Activity Areas



Xeni Gwet'in designated Tourism Areas with Chilko Resorts



Xeni Gwet'in Ecosystem-based Conservation Plan

All Human Use Areas

Require
Protected Ecosystem
Networks
(PENs)

to

Maintain or Restore Ecological Integrity where

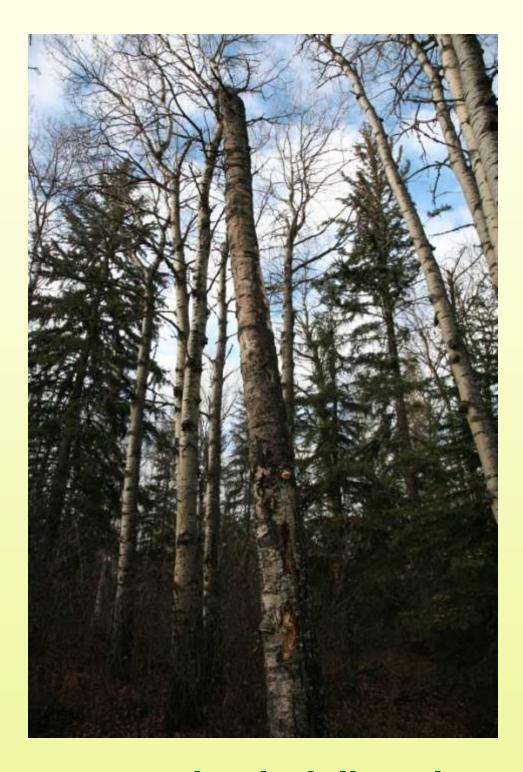
Human Activities occur





... small riparian ecosystems

Protected Ecosystem Networks PENs



... maintain full-cycle trees



Protected Ecosystem Networks PENs



.. maintain fallen trees that provide a foundation for living trees, & other plants and animals



Xeni Gwet'in Ecosystem-based Conservation Plan

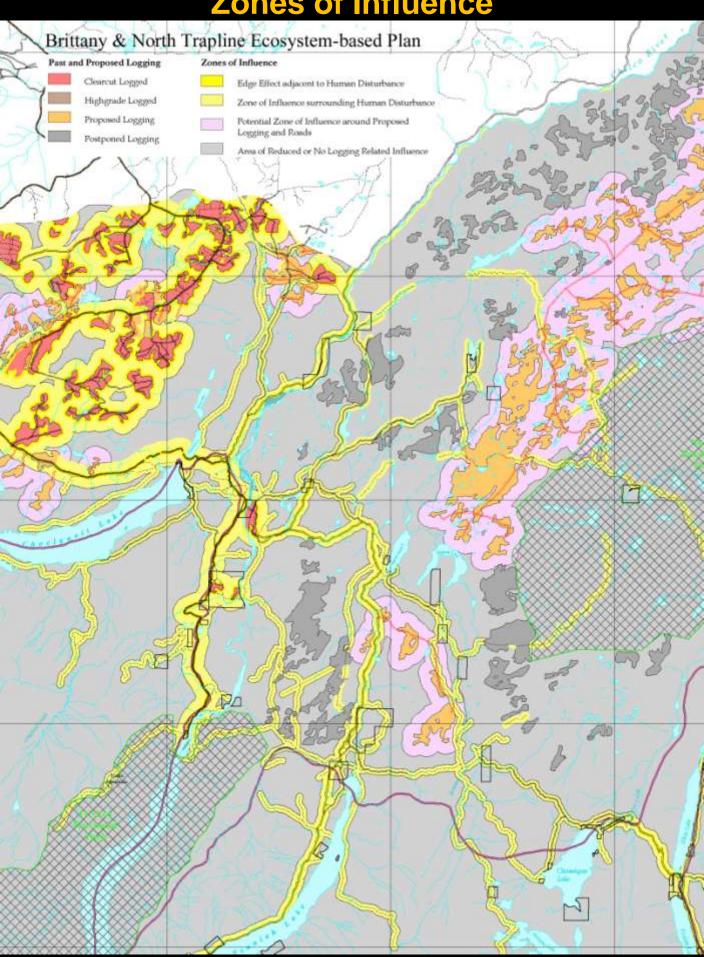
Interpretive Maps show Industrial Damage (Past & Planned)

Updating these maps will show the current condition of, and threats to Xeni Gwet'in Ecosystems



Past and Planned Logging with

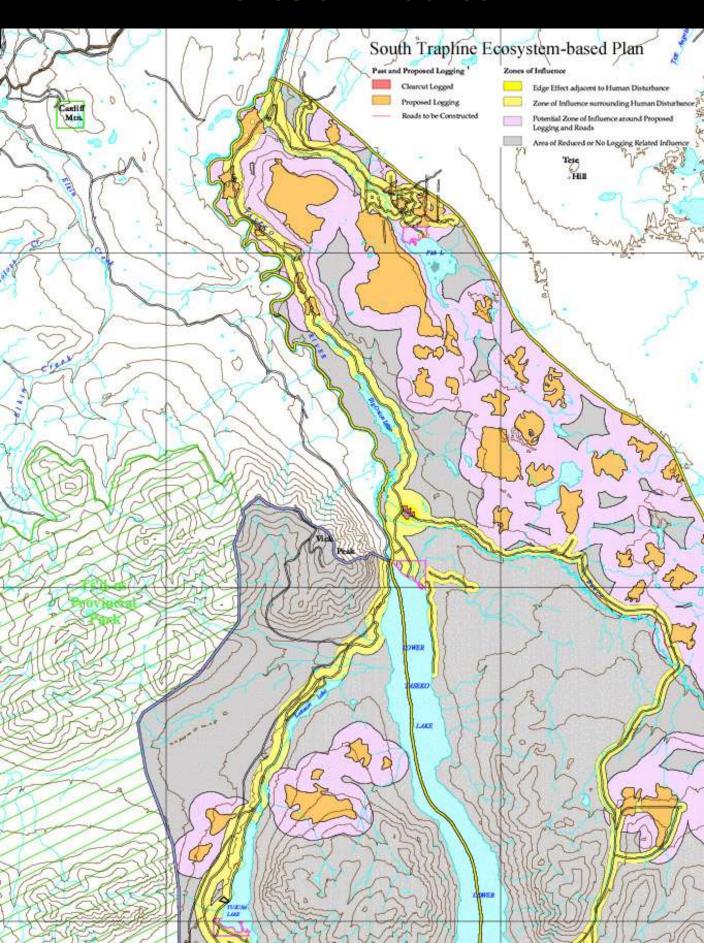
Zones of Influence



Past and Planned Logging with Zones of Influence



Past and Planned Logging with Zones of Influence



Xeni Gwet'in Ecosystem-based Conservation Plan

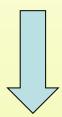
Asserting Xeni Gwet'in First Nation's Aboriginal Title & Rights

- About forests and water, not mining and forestry
- Provides for ecologically and culturally sustainable forest use
- Important parts are Restoration & Reestablishing Xeni Gwet'in management systems
- •Solutions oriented—
 accommodates a <u>different</u>
 world view, while sharing Xeni
 Gwet'in land, water, &
 resources



Solution to Implement

Xeni Gwet'in Ecosystem-based Conservation Plan



Community Forest
Agreement
(CFA)



What is a Community Forest Agreement (CFA)?

- Tenure Agreement (contract) with BC
- Without prejudice to Xeni Gwet'in
 Title & Rights—an interim measure
- Provides control over Xeni Gwet'in Territory according to EBCP and Cultural laws, needs, & resources
- Xeni Gwet'in CFA provides control over:
 - Cultural protection/restoration
 - Eco-forestry
 - Cultural and adventure tourism
 - Agriculture & Ranching
 - Other activities Xeni Gwet'in desires for your land and negotiates with B.C.
- Industrial forestry does not occur in CFA
- Improves ability to prevent mining



Some Summary Thoughts...

- Xeni Gwet'in CFA is about control
- Opportunity to assert title & rights in an effective, far reaching ways:
 - Employment in diverse activities
 - Restoration of land & culture
 - Protection of land & culture from inappropriate activities
- Resolution for much of "divide and conquer" politics of BC
- CFA may be main economic development structure for Xeni Gwet'in



Some Summary Thoughts (con't)...

- What kind of activities are done where...a Xeni Gwet'in decision...Ecological Reserves (EBCP), Reserve Declarations, Human Use Areas (culture & economic development)
- Need to coordinate and refine these decisions—will provide direction and clarity for land use guidelines
- Foundations & many of the details for land use guidelines exist in:
 - Reserve Declarations,
 - •EBCP,
 - Human Use Areas
 - Tourism & Access Plans, &
 - Climate Change Reports



Some Summary Thoughts (con't)...

Land Use Guidelines start with



Cultural & Ecological Reserves
Maintaining ecological &
cultural integrity at different
levels and ways throughout
Care Taker Area
Reserves tell us "what & where"



Human Use Categories, Tourism Plans, Access Plans, & Climate Change Plans
Provide direction for "how"



Some Summary Thoughts (con't)...

- Synthesizing meaningful land use guidelines ... a big job!
 - Synthesis of reports/plans with varying terms of reference, values, & information
 - Field ecosystem checks & verification
 - Community verification
- Start with general guidelines supported by community
- Refine with doing it—on the ground activities

Cultural Activities
Tourism Businesses
Ecosystem Restoration
Eco-Forestry
Fisheries—Commercial &
Subsistence



The forest sustains us . . .



... we do not sustain the forest.

