

# Finding Refuge

### SES WILDLIFE CONNECTIVITY PROJECT

Contributions toward a regional biodiversity conservation strategy

Fall 2023









## OUR MISSION

ENHANCE ECOSYSTEM RESILIENCE Support land managers in safeguarding and restoring vulnerable terrestrial habitat and pathways of wildlife connectivity that are needed to increase the prospects of ecosystem resilience in the Átl'ka7tsem/Howe Sound UNESCO Biosphere & surrounding Sea-to-Sky regions of southwest British Columbia.

# CONTEXT & MOTIVATION

ENHANCING THE RESILIENCE OF VULNERABLE HABITAT & PATHWAYS OF WILDLIFE CONNECTIVITY

## 25%

Proportion of wildlife habitat affected by human disturbance BC Cumulative Effects (2021)

## Think Global. Act Local.

Our work is focused on leveraging available knowledge and emerging new methods of dynamic landscape modelling to support adaptive land management and the development of regional conservation strategies that align with broader goals and targets established by Canada's 2030 Biodiversity Conservation Strategy.



## Finding Solutions Across Geographic Scales

Biodiversity Assessment Sea-to-Sky Region of Cascadia

Whistler

Vancouver

well River

Parksville

Squamish

Society

Environment

Biodiversity Conservation Planning Átl'ka7tsem/Howe Sound UNESCO Biosphere Region



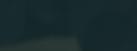
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## **Toward a Regional Biodiversity Collaborative**



Squamish Environment Society





## Goals & Objectives



#### Promote Shared Understanding

Increase awareness and understanding about the causes of biodiversity loss in our region - and the actions needed to safeguard both vulnerable habitat and pathways of wildlife connectivity into the future.



#### **Enhance Wildlife Connectivity**

Identify the best available routes to maintain movement for wildlife and ecological processes through an integrated network of connectivity pathways that increase the prospects of habitat resilience for the broadest possible range of native species.



#### **Empower Conservation Planning**

Develop a framework of indicators that identify both the opportunities and benefits of implementing measures that protect, enhance and/or restore sensitive ecosystems and vulnerable wildlife habitat across local and regional scales of land governance.



## BIODIVERSITY ASSESSMENT FRAMEWORK ALIGNED WITH JUCN TECHNICAL GUIDELINES



## An Introduction to the IUCN Red List of Ecosystems:

The Categories and Criteria for Assessing Risks to Ecosystems

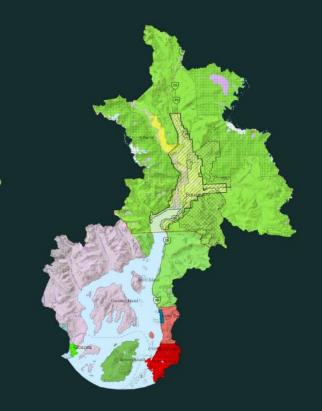


#### Proposed Assessment Framework

**Biodiversity Conservation Strategy** 

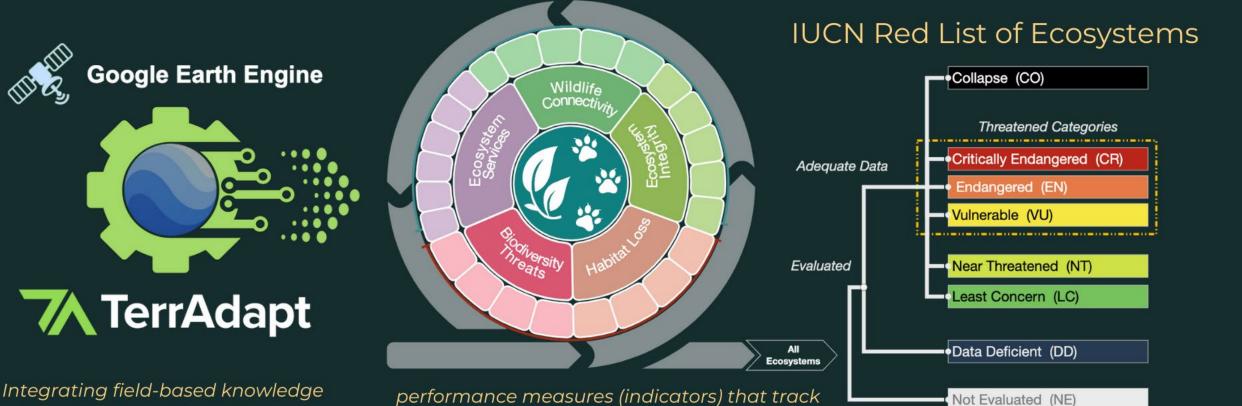


performance measures (indicators) that track progress toward conservation goals & targets





## **BIODIVERSITY ASSESSMENT FRAMEWORK** ALIGNED WITH IUCN TECHNICAL GUIDELINES



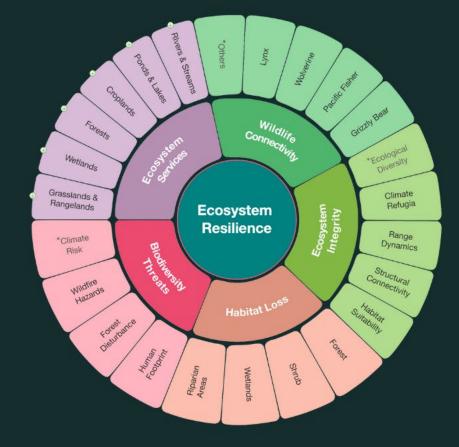
progress toward conservation goals & targets

with earth observation information



## BASELINE ASSESSMENT

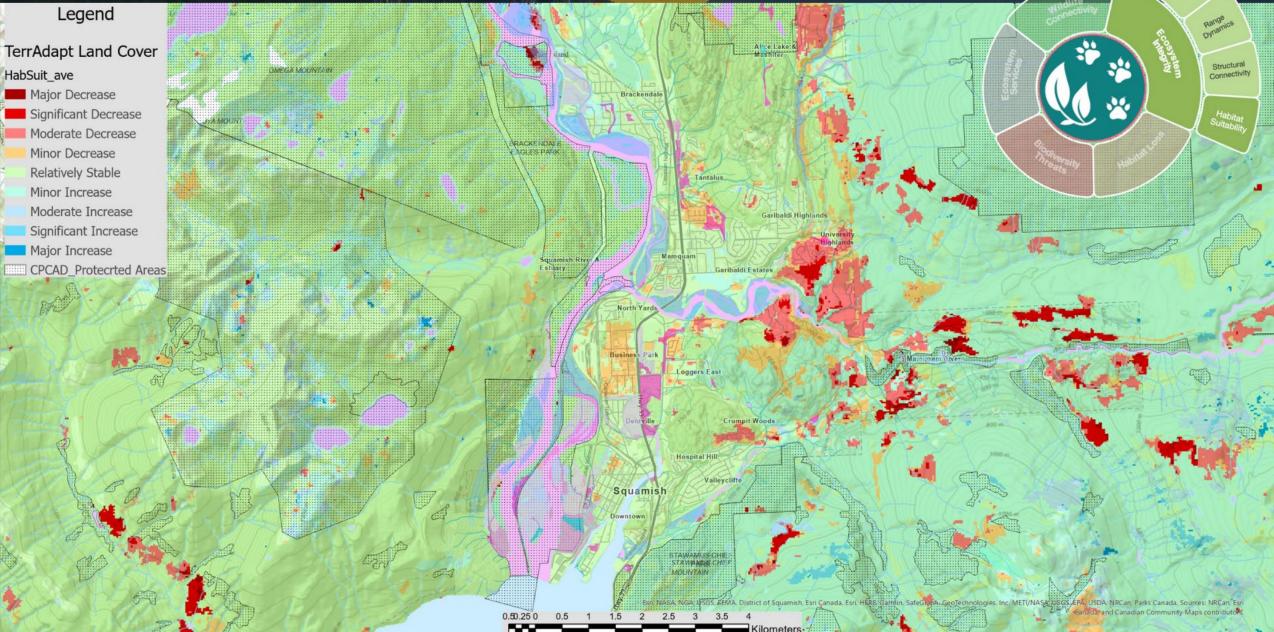
#### PRELIMINARY RESULTS



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## Ecosystem Integrity: Habitat Suitability (1990-2020)

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Climate ja



## THANK-YOU SES WILDLIFE CONNECTIVITY PROJECT TEAM



