

Crown of the Continent Landscape Conservation Design

Join us in designing the Crown LCD!

Vision Ensuring a resilient, connected landscape that supports healthy ecosystems and human communities

Goals

Rely upon cutting-edge science, Indigenous knowledge, and modeling to collectively increase the resilience of waters, forests, and grasslands

Sustain healthy ecosystems, communities, and economies through working lands partnerships

Recognize the leadership, history, culture, and traditional territories of Indigenous peoples as we plan for the future

Landscape Features



Achieving a Landscape Vision

Initiated by the Crown Managers Partnership in 2019, the Crown of the Continent Landscape Conservation Design (LCD) is a means to achieve a landscape that is resilient and sustainable for people, cultures, fish, wildlife, plants, and other natural resources.



From mountain peaks to prairie, the Crown of the Continent LCD spans 131,000 sq km (50,500 sq mi) and straddles the United States and Canada in Alberta, British Columbia, and Montana.

Through collaborative decision making, stakeholders guide the LCD process to produce models, maps, and strategies that enable them to coordinate actions on the ground to achieve a collective landscape vision and goals.

Working Together

- ✓ 42 stakeholders form Leadership Team to direct the LCD
- ✓ Technical and Analysis teams are assembled to perform analytical work
- ✓ A vision statement with 3 goals are developed
- ✓ 15 ecological features (habitat, connectivity, species) are identified
- ✓ Social, Cultural, and Economic Team is formed. They identify water access and air quality as landscape features

- ✓ 300 data sets from management plans and published literature are reviewed
- ✓ 15 conceptual models are built for ecological features and reviewed by 51 subject matter experts
- ✓ 15 spatial designs are underway for ecological features



You Are Invited!

We invite you to join us in developing the Crown LCD. Visit the website to learn more and to contact us. Your participation will help shape the future of conservation in this remarkable landscape.



scan with your phone

www.crownmanagers.org/landscape-conservation-design

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From Models and Maps to Conservation Strategies

The LCD is an iterative process built upon stakeholder guidance, spatial data assessments, modeling, subject matter expert review, and ultimately, the identification of

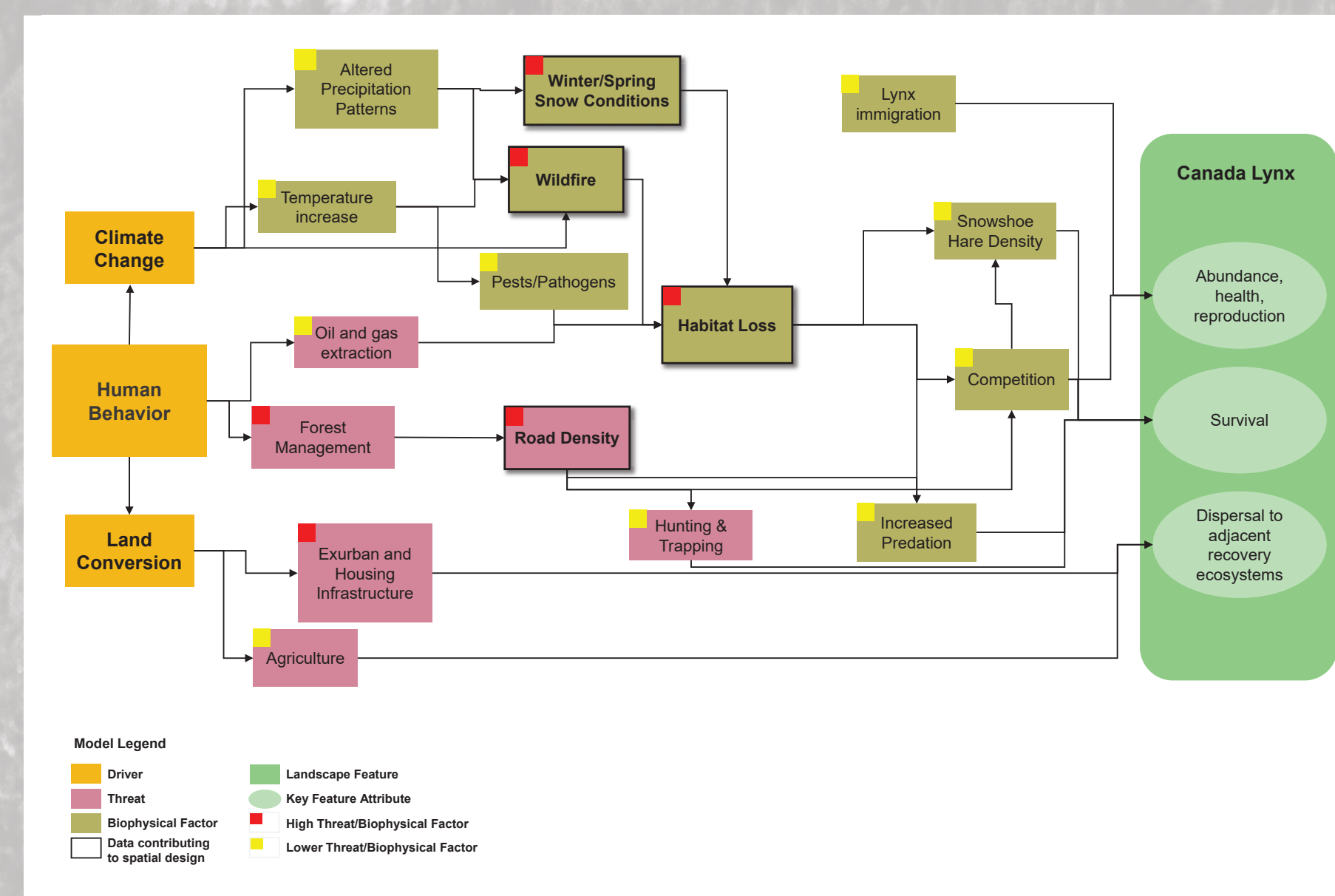
conservation strategies. Three parts of the LCD process are presented below for the Canada Lynx, one of the 17 landscape features.



1 Conceptual Model

What are the drivers, threats, and biophysical factors that may influence the persistence of lynx on the landscape?

Cause-and-effect relationships that impact lynx

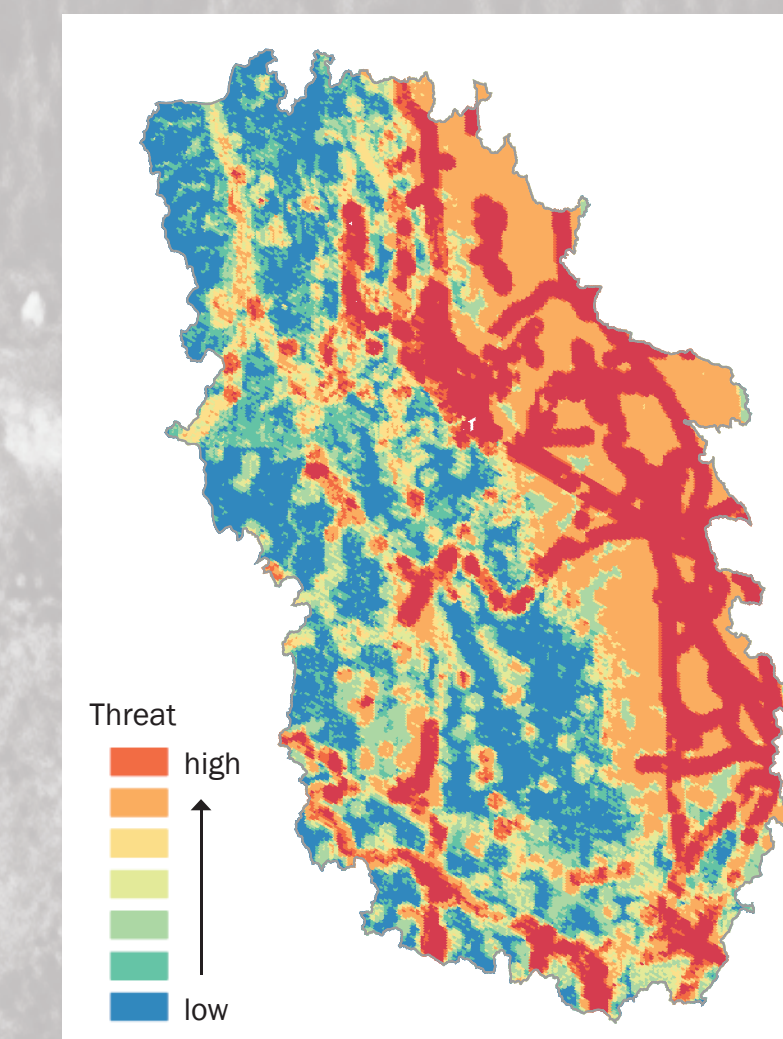


2 Spatial Design

Where and how much area could be retained on the landscape for lynx conservation?

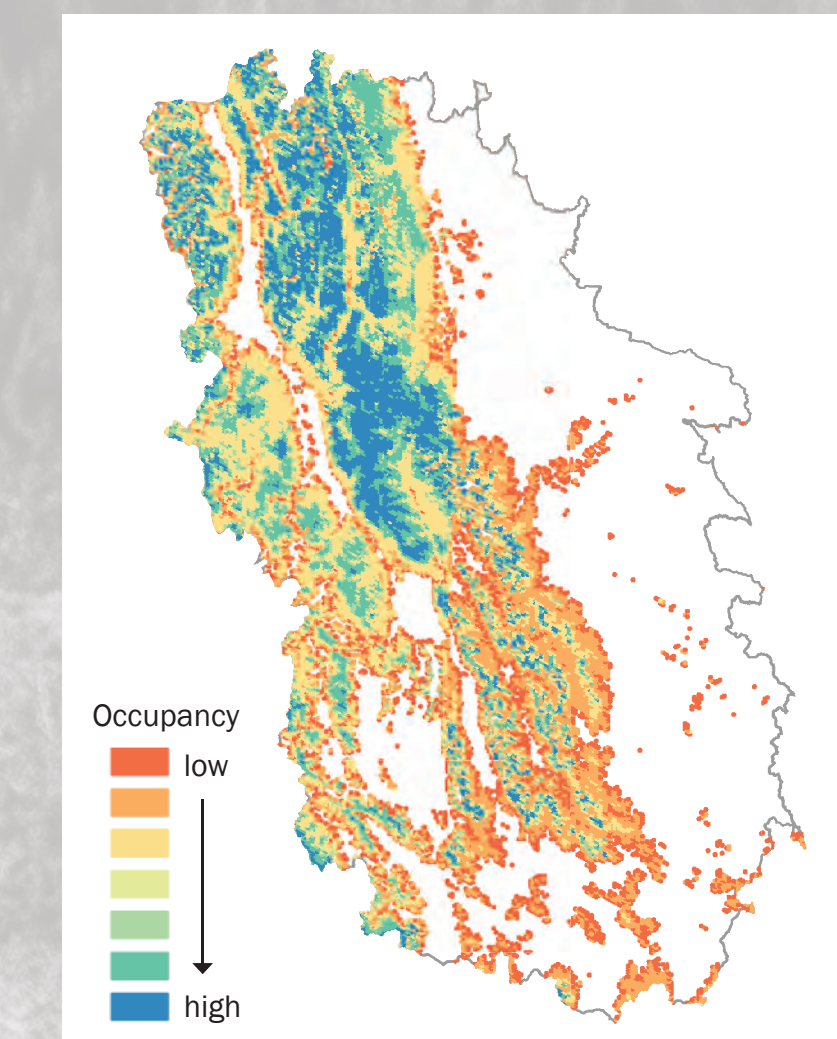
Where are the threats to lynx?

- spatial data:**
- snow conditions
 - wildfire
 - forest landcover
 - road density



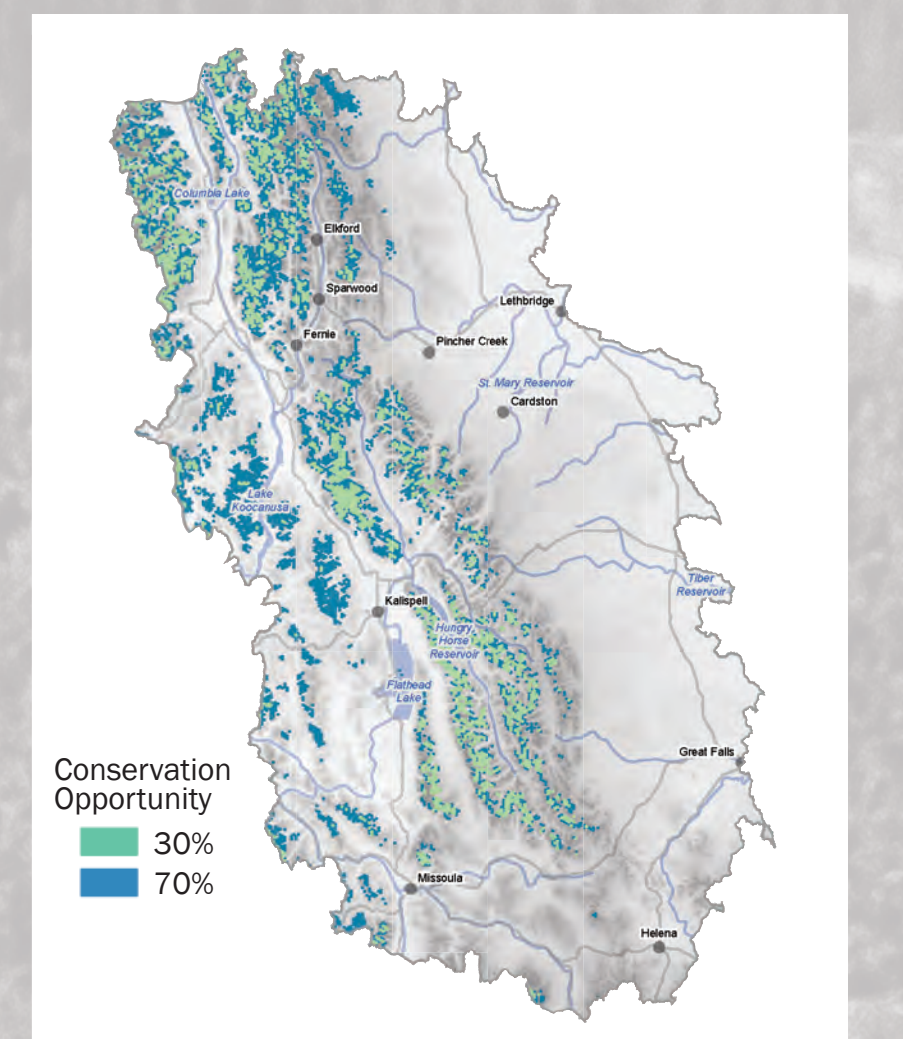
Where do lynx occur?

- spatial data:**
- remote camera locations
 - suitability model
 - critical habitat designation
 - spring snow persistence



Where is there conservation opportunity for lynx?

Stakeholders identify where and how much area should be targeted for lynx conservation. The map shows two plausible scenarios: 30% and 70% of potential conservation area.



3 Strategy Design

A strategy design complements the spatial design and describes a cooperative approach toward achieving conservation outcomes. It helps answer the questions: Who does what and where should it be done?

Collaboratively built 'results chains' are a key component of the spatial design. Results chains provide a framework to visualize and think about how threats to ecological features like lynx can be reduced.

Simplified results chain shows how the threat of road density could be reduced for lynx

