

CASCADIA URBAN ANALYTICS COOPERATIVE

Objectives

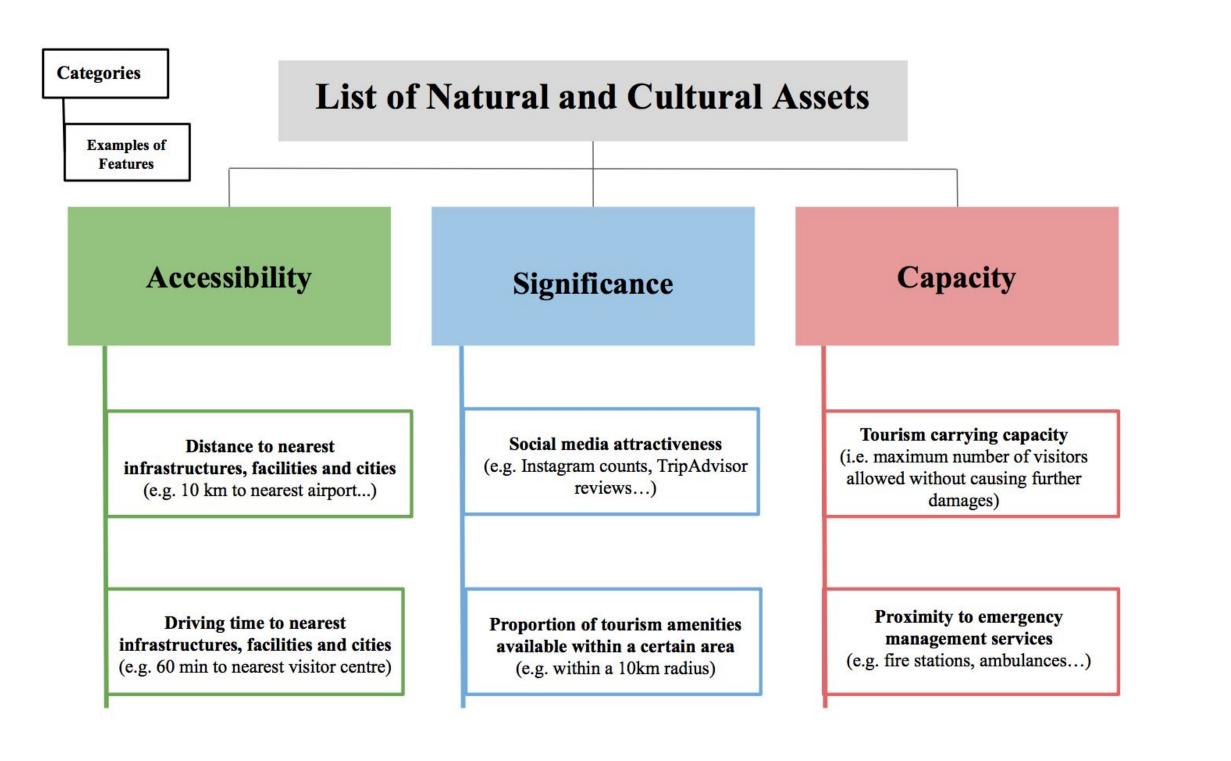
(1) To gather and make accessible data relevant to tourism for the purposes of planning, policy development, & decision making, (2) To develop and assign a system of value attributes to the tourism assets (hotels, parks, hiking trails...) in British Columbia.



Measuring the Value of Tourism

When two forest resorts are on fire, which one would you save first? \succ Our value ranking system has **3 main pillars**:

- **1. Accessibility**: Distance from nearest city, Transportation,
- **2. Significance:** Popularity, Social Media attractiveness,
- 3. Capacity: Ecotourism, Emergency Management Services.



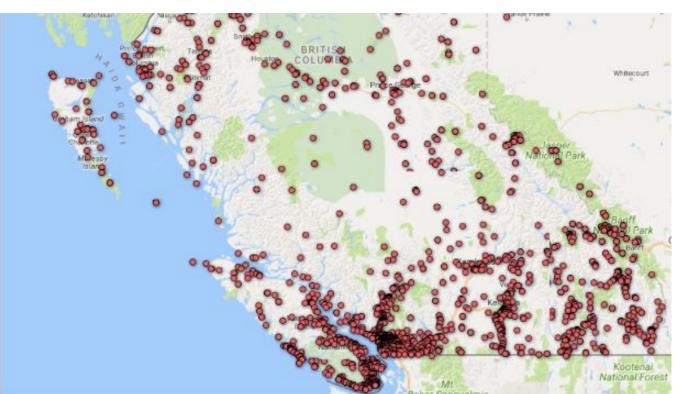




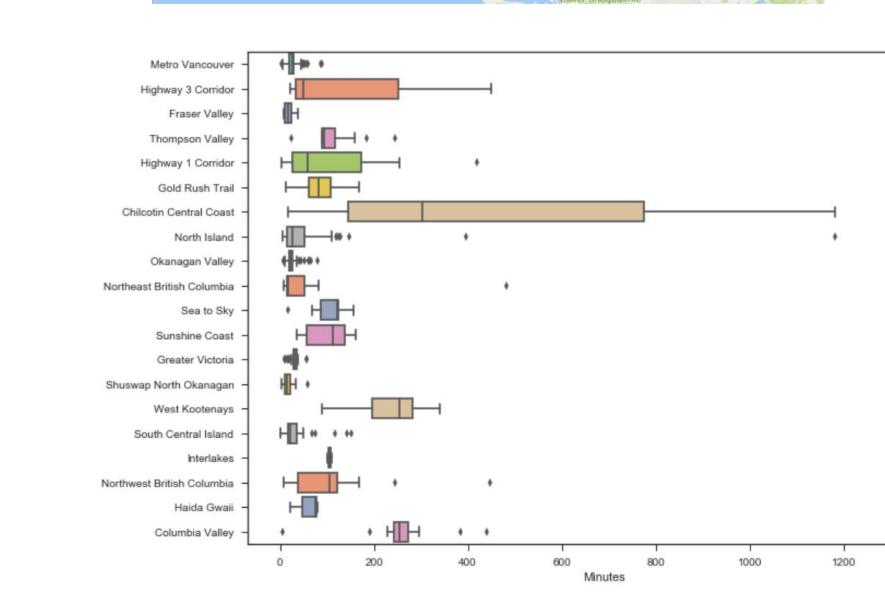
Tapping Diverse Data Sources Instagram

Facilities	Infrastructures	Natural Resources
Hotels, Lodges, Visitor Centres ()	Roads, Airports, Railway Stations ()	Parks, Waterfalls, Hiking Trails ()

How does **social media** reflect the **significance** or attractiveness of a particular natural asset (waterfall, fishing lake, ecological reserve...)?

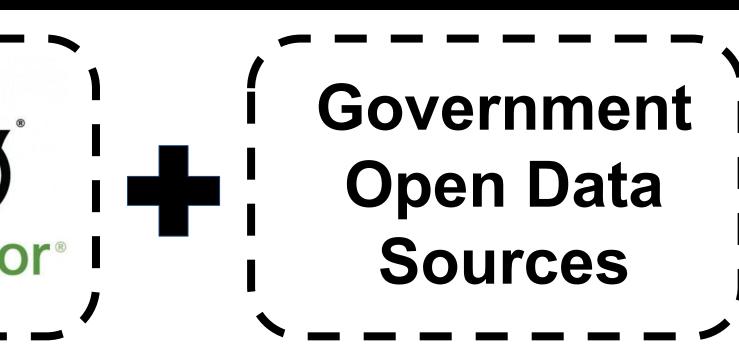


Instagram posts location (left) Frequently used keywords by social media users (right).

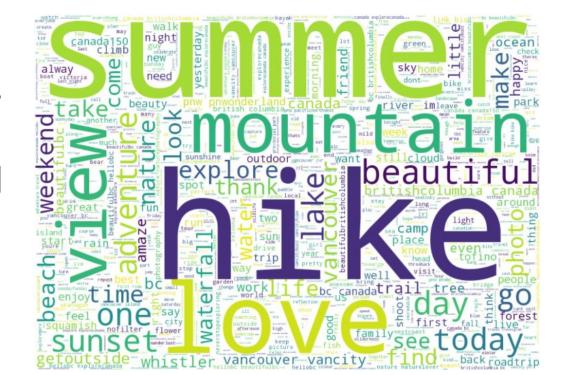


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Data Exploration

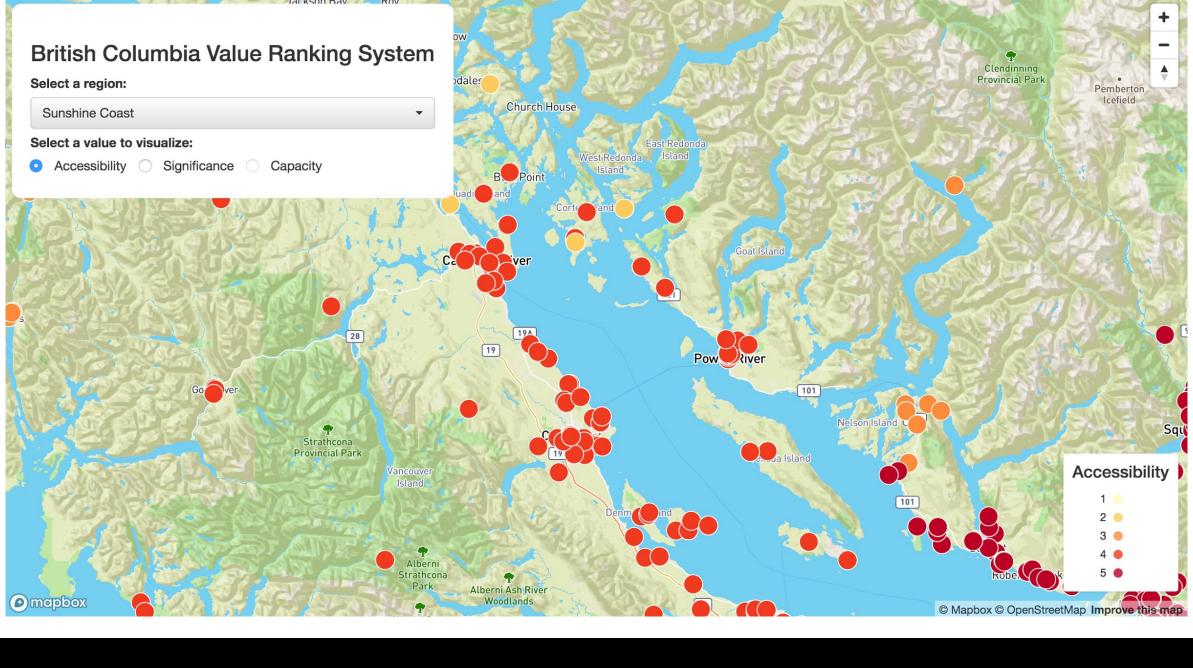


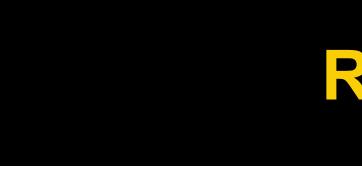
How long does it take to drive from the **nearest airport** or city?

Within each major tourism area in B.C., we included all assets and looked at the average driving distance (minutes) it takes to reach the nearest airport.

ADVANCING DATA-INTENSIVE DISCOVERY IN ALL FIELDS







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The team would like to particularly thank **Ben Clark** for his leadership and guidance throughout the program's duration. This work has been made possible with the assistance of the UBC Data Science Institute and with funding support from **Microsoft**.



Microsoft

Web Mapping Tool

Zoom-in on your area of interest and interact with a tourism asset to display its value attributes, local potential and more.

Recommendations

Enhancing inter-agency and **stakeholders** coordination, \succ Reducing **data gaps** for future modelling purposes, > Incorporating **demand**-side analysis (customer reviews), > Fostering further **interdisciplinary** and intersectoral collaboration to inform data-driven decision making.

Acknowledgement

UBC Data Science Institute