Natural Resources Canada
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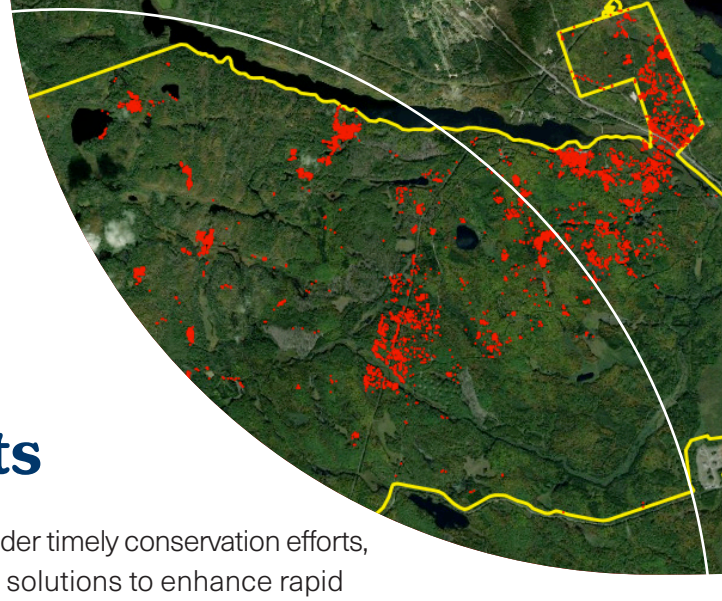
INFORMATION ON THE COMPLETED PROJECT CONTRIBUTION AGREEMENT



Detecting Early Signs of Change in Canadian Forests

Delays in detecting forest health changes and land disturbances hinder timely conservation efforts, underscoring the need for automated satellite-based monitoring solutions to enhance rapid response, improve forest management, and ensure the long-term sustainability of ecosystems.

PROJECT TITLE
Automated Multivariate Change Detection for Rapid Forest Monitoring

ORGANIZATION
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START DATE
December 1st, 2023

END DATE
March 31st, 2025

This project aims to develop an automated system for detecting changes in various forest conditions using time series satellite imagery. The goal is to create a platform that quickly identifies disturbances in the land, changes in moisture levels, shifts in vegetation cover, and overall changes in forest health. By enabling rapid detection, stakeholders can respond quickly and take action to minimize any disruptions. The project will use different sources of time series satellite imagery, including both public and commercial data.

There are many benefits to this approach. It allows for timely detection, providing continuous monitoring of forests and early warnings about potential health issues. Automated processing improves the accuracy and consistency of analyzing large amounts of data. Additionally, automated monitoring is more cost-effective over time compared with traditional manual methods. This system can integrate various data sources, including satellite images, and can be customized to meet specific forest health monitoring needs. Overall, this project promises to improve forest management practices, support proactive conservation efforts, and contribute to the sustainability of Canadian forest ecosystems.

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