BOOST INVENTORY VALUE

Optimize seedling establishment across all forest replanting areas to maximize inventory value, target silviculture activities and focus ground resources.

Business Challenge

Forest leaders managing vast areas are challenged with establishing young trees within stands because of the amount of additional vegetation. Until now, heavy investment in aerial surveys, backed up with "boots on the ground" assessments, have been the only method of determining this. Multiply that investment across multiple stands – and remote sensing technologies start to make sense.

Industrial-scale brushing, at stand level

Forest Brushing enables you to focus brushing activities for optimum viable young tree growth across vast areas. Use this data to:

- Remotely determine the characteristics of your young inventory, without the need for costly aerial and ground surveys
- Accurately plan, target and action brushing and other silviculture activities
- Use the latest, dynamic data to measure the effectiveness of brushing operations and optimize decisions for your whole forest
Product Overview

Forest Brushing remotely analyzes seedling establishment within stands across vast forested areas. It tells you when and where to focus your brushing activities and measure their impact for optimum viable crop growth. Its satellite and multiple data feeds combine with advanced AI to provide insights that enable you to optimize ground resources to perform silviculture activities and report on actions to meet regulatory requirements. Data can be integrated into existing GIS systems, or delivered through our Forest SAT solution on the Rezatec platform where you can view your visualization and analytics data from a dashboard. Updates on a twelve-monthly cycle ensure you are evaluating the most up to date and relevant information.

Our algorithms correlate multi-temporal optical satellite data to detect and measure the proportion of deciduous and evergreen canopy response within each image pixel. The proportion is tracked through time and benchmarked against a value suitable for your own needs, to inform silviculture activities. Use these insights to:

- Determine and quantify treatment needs for 1-5 year old plantations
- Assess and calculate the impact of previous herbicide programs

Rezatec Geospatial AI

Forest Brushing is part of Forest SAT, our geospatial AI solution, which remotely provides a view of your entire forest inventory across vast geographic areas and analyzes disturbance events that threaten its value.

Rezatec uniquely combines remote sensing analysis with data science to deliver geospatial AI, enabling dynamic decision making for clients across the globe in water, agriculture, energy and forestry.

CONTACT US TO FIND OUT MORE

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