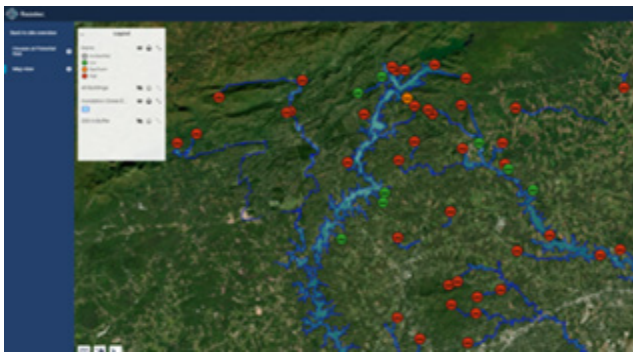
Rezatec

BOOST INVENTORY VALUE

Optimize viable crop growth across your entire forest to maximize inventory value. Use it to target siliculture activities and to boost the effectiveness of ground resources.

Business Challenge

Monitoring forest establishment and managing competing vegetation across large geographic areas is a challenge for forest leaders. Until now, heavy investment in aerial surveys, backed up with 'boots on the ground' assessments, have been the standard method for achieving this, but these are costly. Remote and cost-effective geospatial AI allows foresters to streamline their monitoring and optimize the treatment of undesirable vegetation.



Industrial-scale brushing, at stand level

Reforestation helps foresters in two key ways. First, it enables you to focus weeding and brushing activities only where they are required, ensuring optimum viable young tree growth and minimizing expenditure. Secondly, it allows you to monitor establishment progress across your full portfolio, ensuring that sites with establishment issues are brought to your attention so that you can quickly and effectively remediate.

Use this data to:

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

Product Overview

Reforestation remotely analyses crop establishment within stands across vast forested areas. It tells you when and where to focus interventions, and also measures their impact for optimum viable crop growth.

Its satellite data feeds combine with geospatial AI to provide insights that enable you to optimize your silvicultural activities. Sites which have establishment issues, whether they are patches of failed establishment or sub-optimal stocking, are clearly identified, enabling you to send resources to where they're needed. Competition intensity from undesirable vegetation is also mapped, allowing you to target herbicide application and reduce net treatment area by as much as 15%.

Data can be integrated into existing GIS systems or delivered through our ForestSAT solution on the Rezatec platform, where you can view your data analytics on a dashboard, available in your browser or on a tablet in the field. Updates are delivered on a twelve-monthly cycle, towards the start of the growing season, to 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 evergreen crop trees and non-crop vegetation within each image pixel. The proportion is tracked through time and benchmarked against a value

Use these insights to:

- Determine and quantify herbicide treatment for young plantations.
- Assess the impact of previous herbicide programs.
- Monitor crop establishment over time, at unprecedented resolution.

Rezatec Geospatial AI

Reforestation 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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