

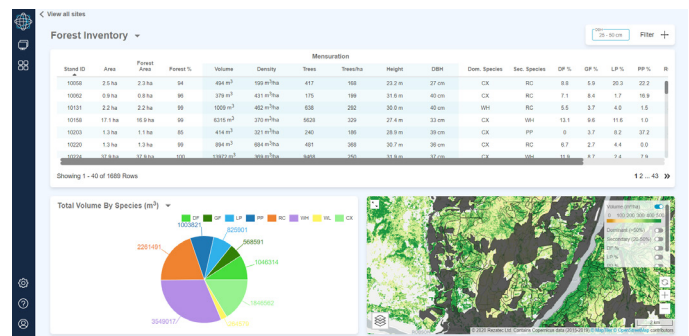
ZERO-IN ON THE VALUE

Drive efficient inventory management and extract maximum value per stand.

Geospatial AI is helping forestry companies around the world to estimate and manage the commercial value of timber stock. And they're gaining commercial advantage when competing for harvest rights.

Business Challenge

In commercial forestry, performance is driven by the forested area's harvestable yield. It's critical to deliver the most value from every hectare and ensure its long-term viability. Having visibility of spatial species distribution, abundance and density is a critical part of this especially when the species composition is mixed. Geospatial AI provides up-to-date, accurate data on available timber volumes.



Forest Inventory calculates crucial metrics

Cost-effectively manage timber potential

Forest Inventory enables you to cost-effectively determine harvesting potential and optimize operational work. Use this continuously refreshed data to:

- View your entire inventory by height, dimensions, volume and species
- Accurately forecast inventory supply and optimize supply chains
- Optimize mill supply and boost the flow of monetizable inventory



Product Overview

Forest Inventory uses geospatial AI to remotely analyze inventory across your entire forest. It provides detailed, continuous data on height, count, volume and species distribution as it changes over time. 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. Annual updates ensure you are evaluating the most up to date information.

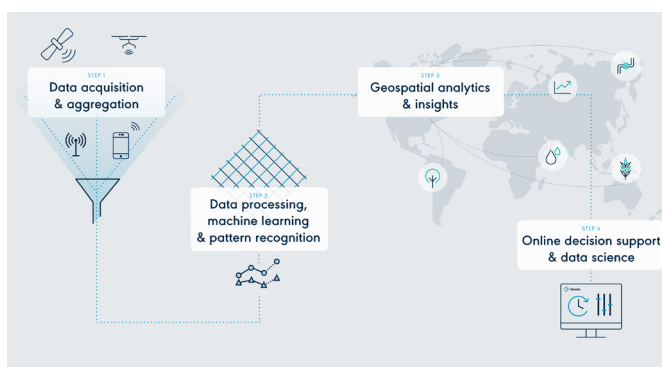
Our algorithms correlate area-wide satellite data and environmental data (e.g. Hydro-topographic variables) with your existing ground plot information to produce species distribution maps. This data is combined with satellite-derived optical and synthetic aperture radar (SAR) data and environmental layers to determine the following key metrics, vital to understanding the value of your inventory:

Species:

- Species distribution
- Stand volume by species

Mensuration:

- Tree count
- Height
- DBH (diameter at breast height)
- Total volume



Technology overview

Rezatec Geospatial AI

Forest Inventory 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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