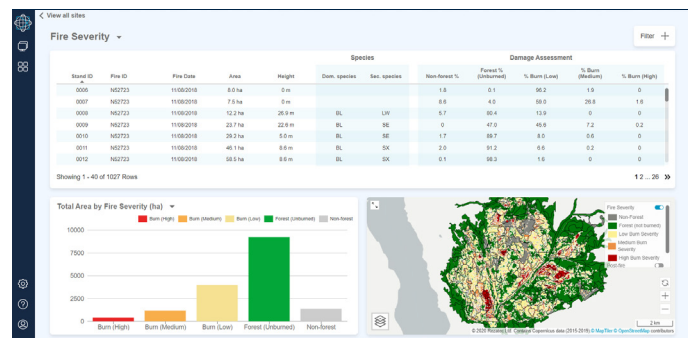


RESPOND RAPIDLY TO DRIVE VALUE

Accelerate and optimize salvage operations to extract the least degraded trees quickly and maximize post-fire timber value.

Business Challenge

Foresters need as much large scale data and analysis as possible after a wildfire. Today, the forestry sector relies heavily on ground and aerial surveys. Foresters can wait for many months after a wildfire until viable salvage operation decisions can be made, which means that logistical challenges and timber damage can escalate.



Reduce wildfire salvage times

Fire Severity enables you to remotely evaluate post-fire risks and plan, prioritize and execute on response activities – significantly faster than when using Government and other data sources.

Use this high frequency satellite data, rapid imaging and post fire status analysis to:

- Remotely assess fire impact and determine the exact location of salvageable lumber
- Deploy salvage teams directly to the most valuable timber locations
- Recover timber before it degrades entirely

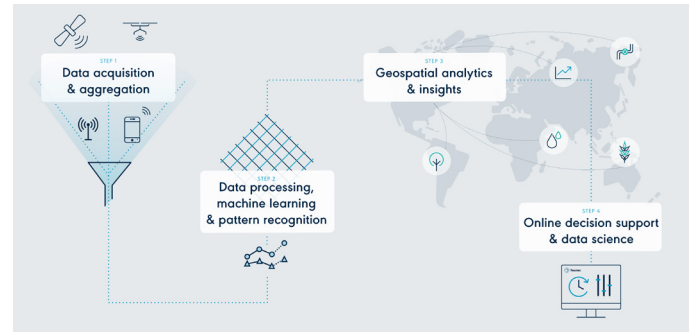
Product Overview

Fire Severity uses satellite data feeds fused with advanced AI to identify the extent of fire damage to tree canopies and low-level vegetation. 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. Regular updates ensure you are evaluating the most recent information.

Our algorithms incorporate a time series of satellite data including images from before and after the fire event and additional comparisons to the unburnt forest status in previous years. The fire severity index that is generated has been calibrated using ground survey data to identify different levels of fire damage to timber that directly relate to salvage potential.

The data is presented as a continuous map of fire damage classes across the affected area. Where supplementary stand level inventory data is available (from Rezatec or other existing sources) then the following key metrics can be defined which are vital to understanding the location, extent and severity of fire damage:

- Stand ID
- Fire date
- Stand area
- Species composition
- Height
- Volume
- Damage assessment:
 - % forest unburned
 - % forest burned: high, medium, low damage classes



Technology overview

Rezatec Geospatial AI

Fire Severity is part of Forest SAT, our Geospatial AI solution, which remotely provides a view of your entire forest inventory across vast geographic areas and analyses 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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