

# Managing vegetation with sustainability in mind

Make better decisions with remote sensing, customer assets and other data

## The challenge

When mitigating outages, keeping track of all the factors affecting system reliability and customer satisfaction can be challenging. Many industries have traditionally relied on manual or drone inspections, complex contracting and bidding processes with vendors to deal with tree-related outages. But these approaches can be expensive and labor-intensive. In addition, a variety of contributing growth factors may also create difficulties in tracking the development of trees in your territory without exhausting your resources. These factors include tree species, weather conditions, soil moisture, health and herbicide applications.

Leaders in vegetation management must therefore balance cost with system reliability. This balance includes effectively determining the risk of vegetation to assets and monitoring its state between cycle trims. That way, the location and proximity of assets to hazardous and dangerous trees can be precisely identified to comply with a highly regulated industry.

## The solution

With the IBM® Environmental Intelligence Suite Vegetation Management solution, you can overcome the challenges of unpredictability and uncertainty.



The solution combines scalable laser imaging, detection and ranging (LiDAR) data collection with high-resolution satellite imagery to derive vegetation insights. This broader view allows leaders to optimize vegetation management activities around budget allocation, work planning, regulatory reporting, hazard monitoring and auditing, injecting this intelligence into existing workflows.

Delivered through the cloud, IBM Environmental Intelligence Suite Vegetation Management combines AI and analytics to help address vegetation management's high costs and inefficiencies.

## Key capabilities

- Monitor and identify areas where vegetation and trees may pose a threat.
- Calculate scores and KPIs to highlight potential hazard areas and facilitate risk assessment.
- Share insights with asset management platforms like IBM Maximo® Application Suite.
- Replace cycle-based vegetation management planning methods with condition-based approaches.
- Inform the audit process and integrate irrefutable evidence about vegetation actions in regulatory reporting.

[Learn how](#) to solve vegetation challenges with IBM Environmental Intelligence Suite Vegetation Management.