



SCPIOUS

SOLUTION PAPER

Intelligent Forestry: Data-Driven Environmental Stewardship with Scopious IoT

Overview

Forestry sites face risks from weather, erosion, and fire—often in remote and sensitive areas. Scopious delivers near real-time data to support operational safety, land management, and compliance with NES-PF and council regulations. With early alerts and long-range coverage, it helps teams act quickly and protect both assets and the environment.

Needs:

Forestry teams must monitor weather, fire risk, soil stability, and environmental impact while complying with resource consents, NES-PF (National Environmental Standards for Plantation Forestry), and regional land use regulations.

Solution:

Scopious provides near real-time monitoring of key environmental factors across forest estates, enabling operators to act early, manage risk, and maintain compliance through accurate, site-specific data.

Key Benefits:

- Improves safety through live weather and fire risk awareness
- Helps manage erosion, sediment, and nutrient runoff
- Supports compliance with national and regional forestry regulations
- Reduces environmental impact through early alerts and smarter planning
- Provides historical data for auditing and long-term land management
- Scales across large, multi-block forestry operations

Scopious for Forestry

- Rainfall, wind, temperature, and humidity sensors for operational planning
- Soil moisture and stability monitoring to support erosion control
- Air quality and smoke detection for early fire warning
- Edge and buffer zone sensors for waterway and compliance monitoring
- Dashboards and automated reports for NES-PF and council obligations
- Long-range connectivity options for remote locations

**Environmental oversight.
Safer operations.
Data that supports compliance and planning.**