



SCOPIOUS

SOLUTION PAPER

# Leveraging Scopious IoT for Environmental Insight and Grape Quality in Viticulture

## Overview

In viticulture, microclimate is everything. Small shifts in temperature, humidity, or wind can influence disease risk, ripening patterns, and harvest quality. Scopious gives vineyard managers near real-time, block-specific environmental insights to support better decision-making—from frost response to canopy management and compliance reporting.

### Needs:

Growers need accurate, block-specific insights to manage frost, disease, and irrigation, while also addressing rodent damage and spray drift. NZ regulations now require more detailed records under freshwater and emissions plans, and strong pest monitoring for export readiness and sustainability audits.

### Solution:

Scopious provides continuous microclimate and rodent activity monitoring across vineyard blocks and sheds. Growers can act faster to protect vines, meet regulatory obligations, and reduce crop losses from both climate and pests.

### Key Benefits:

- Minimises crop loss from frost, disease, and rodents
- Improves timing of irrigation, spraying, and harvest decisions
- Enhances compliance with regional and national regulations
- Supports Sustainable Winegrowing NZ (SWNZ) requirements
- Enables early action through near real-time environmental and pest alerts
- Strengthens vine health and long-term vineyard performance

## Scopious for Viticulture

- Air temp, humidity, wind, and soil sensors for disease and frost alerts
- Rodent detection sensors for sheds, infrastructure, and block edges
- Block-level alerts for frost, irrigation, or pest activity
- Dashboard access for near real-time and historical reporting
- Integration with irrigation systems, frost fans, and pest control setups
- Records that support SWNZ audits and council compliance

Precision  
climate  
insight.  
Stronger  
vines.  
Smarter  
vineyards.