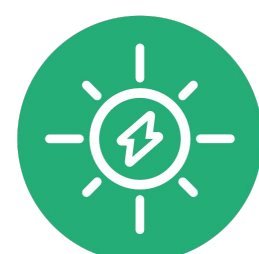# Silvanet Cloud Platform

DRYAD

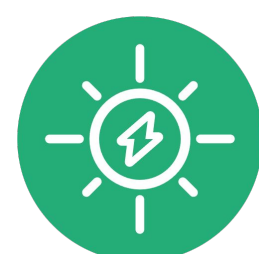## Platform for Deployment, Device Management, Monitoring, and Alerting

The Silvanet Cloud Platform is an all-in-one web app offering an integrated suite of tools including deployment planning, device management, site health monitoring, and alert management.

The Silvanet Cloud Platform is based on a scalable AWS-based architecture that supports seamless integration with third-party systems (e.g., command and control systems) via MQTT API, ensuring robust performance and efficient alert handling.
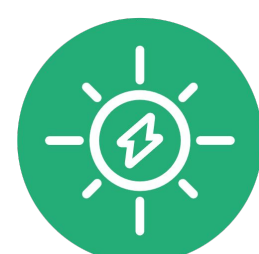
PLANNING TOOL:

- User-Friendly Deployment Planning: Simplifies and optimizes network planning with automated gateway and sensor positioning.
- Multi-Layer Mapping: Integrates topography, 3D mapping, LoRaWAN coverage simulation, and terrain highlights (e.g., roads, trails), providing detailed and actionable insights for deployment.
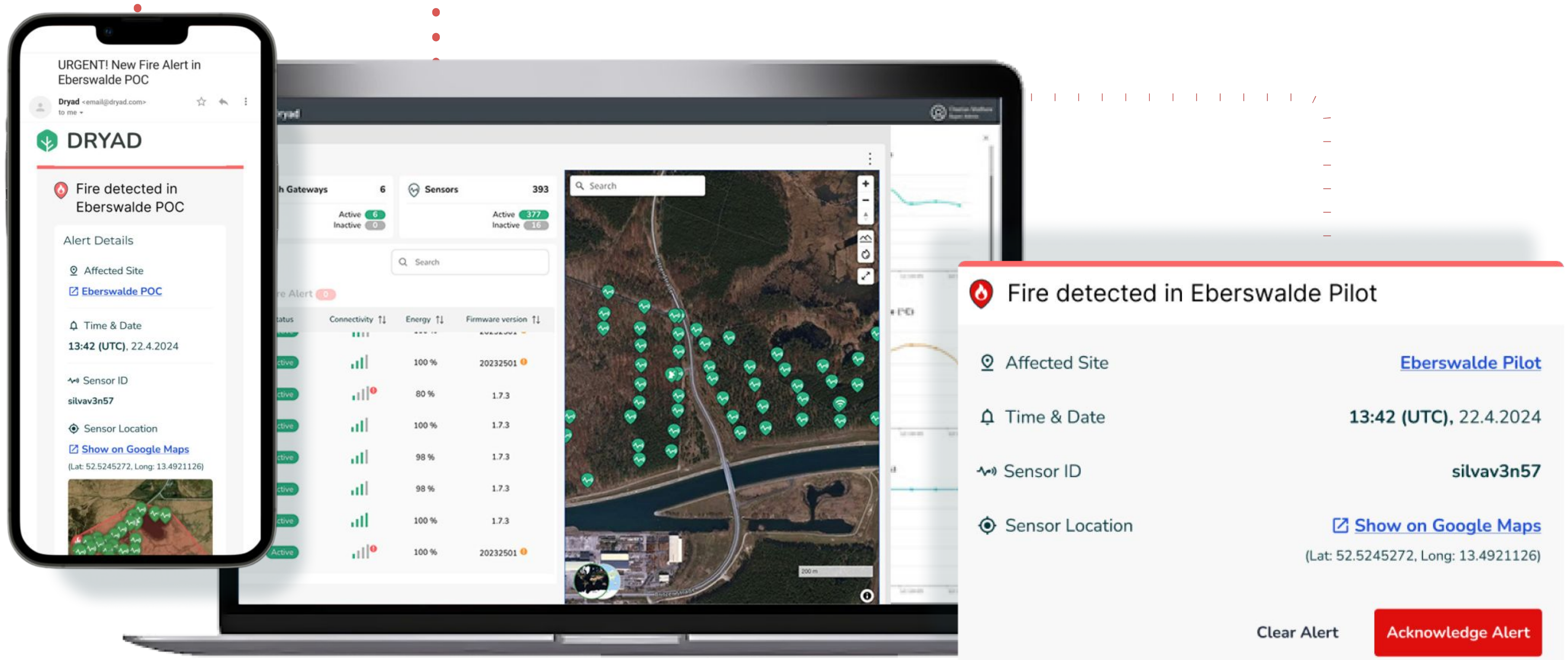
SITE HEALTH MONITORING:

- Interactive Map Interface: Allows users to locate gateways and sensor devices on a map, along with their individual alert status and network connectivity.
- Forest Health at a Glance: Provides a holistic view of the microclimate, monitoring parameters such as temperature, humidity, and air pressure.
- Fire Risk Prediction: Offers predictive insights to anticipate fire risks.

ALERT CENTER:

- Multi-Channel Alerts: Delivers notifications through in-app messages, emails, and push notifications, ensuring timely and reliable communication of critical events.
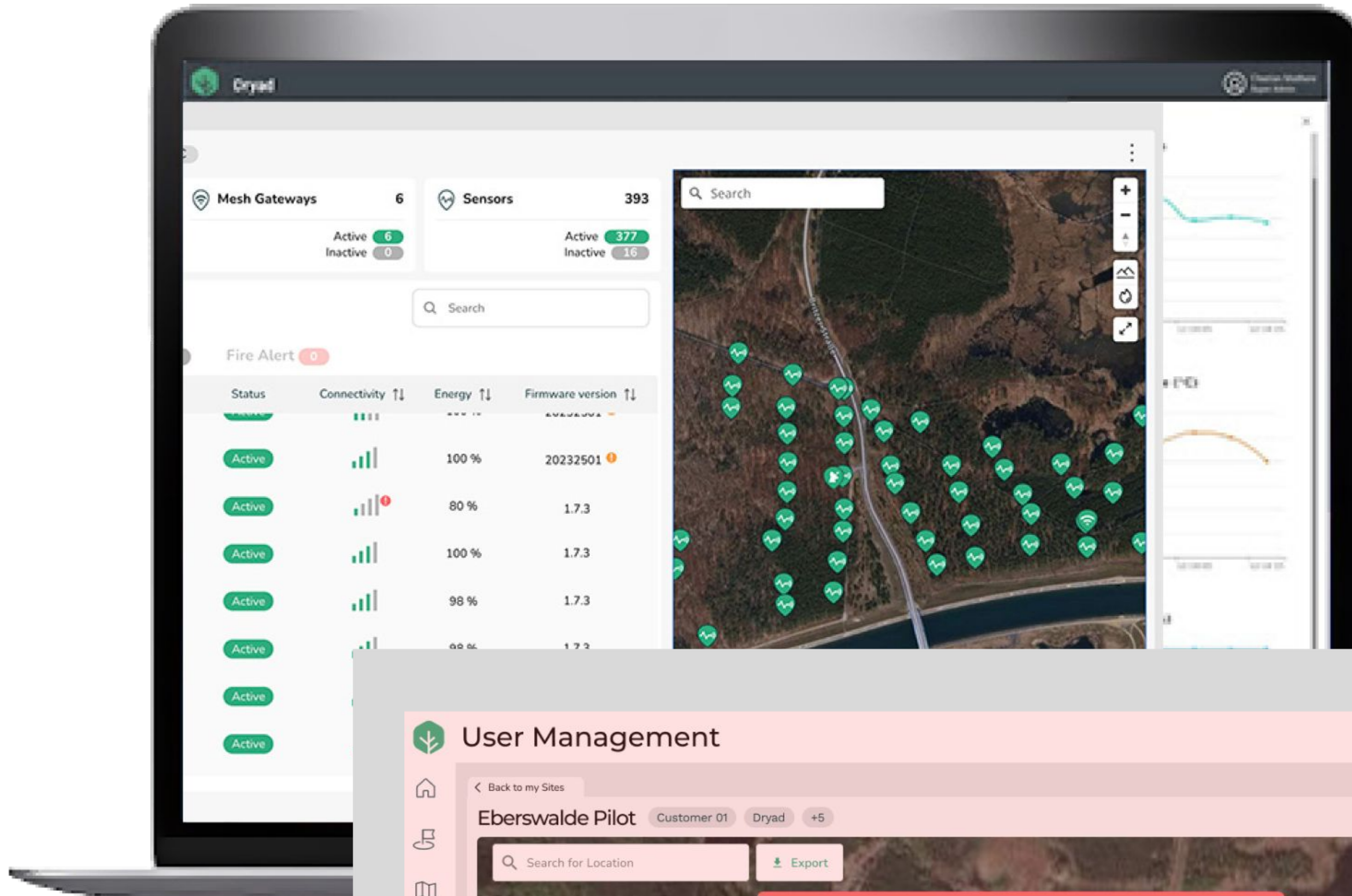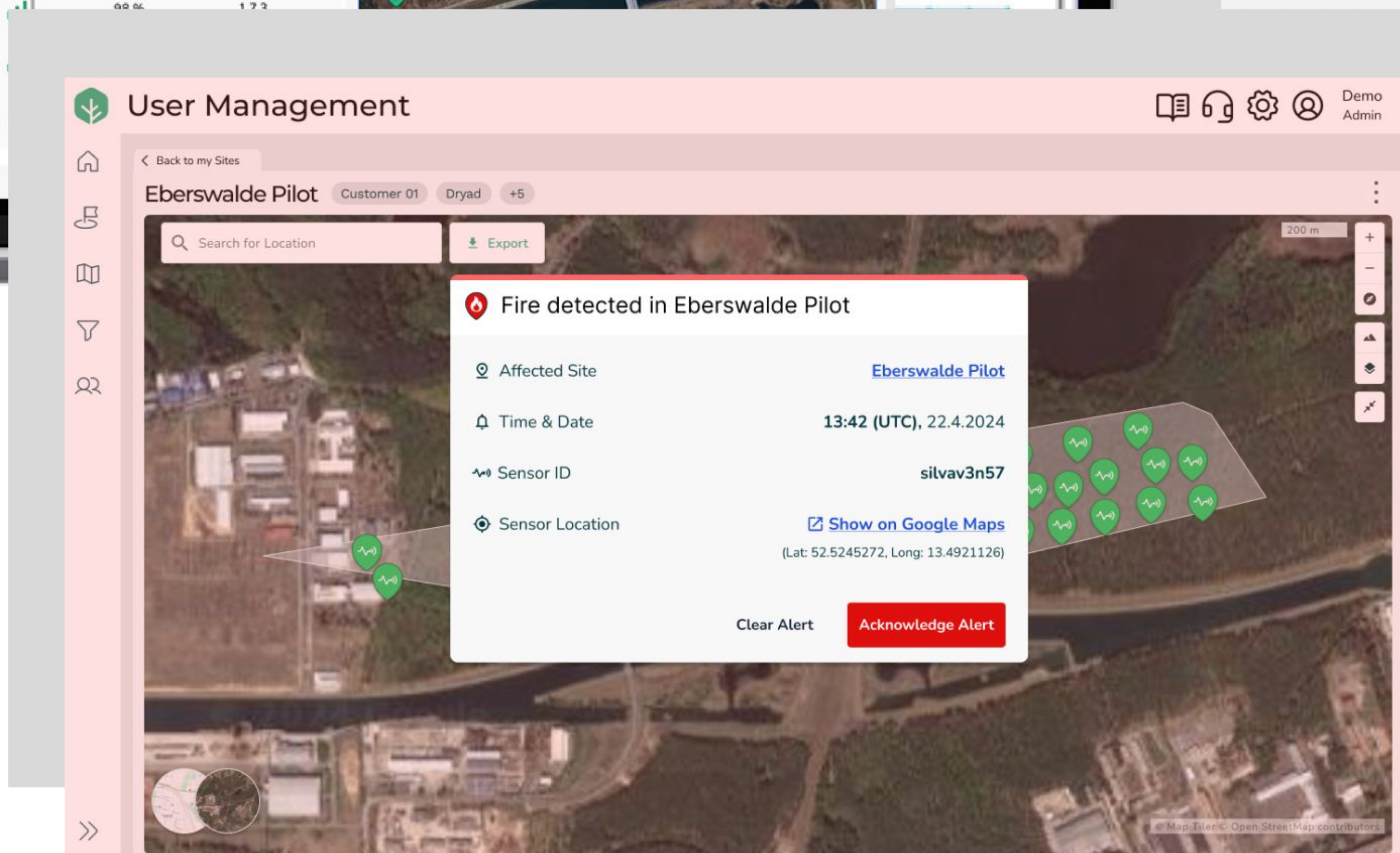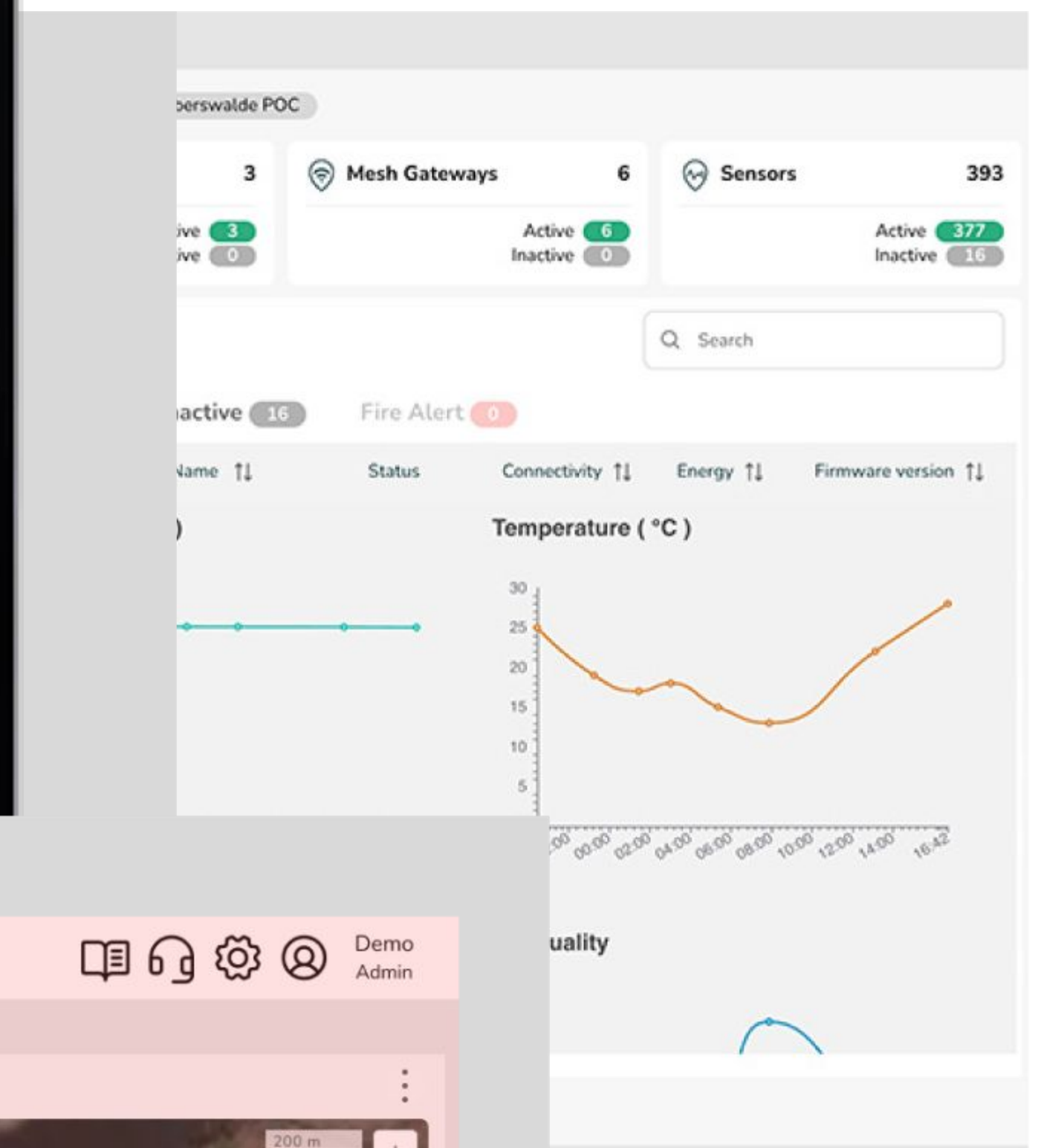
Silvanet Cloud Platform

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Monitoring Platform for Deployment, Device Management, Monitoring, and Alerting
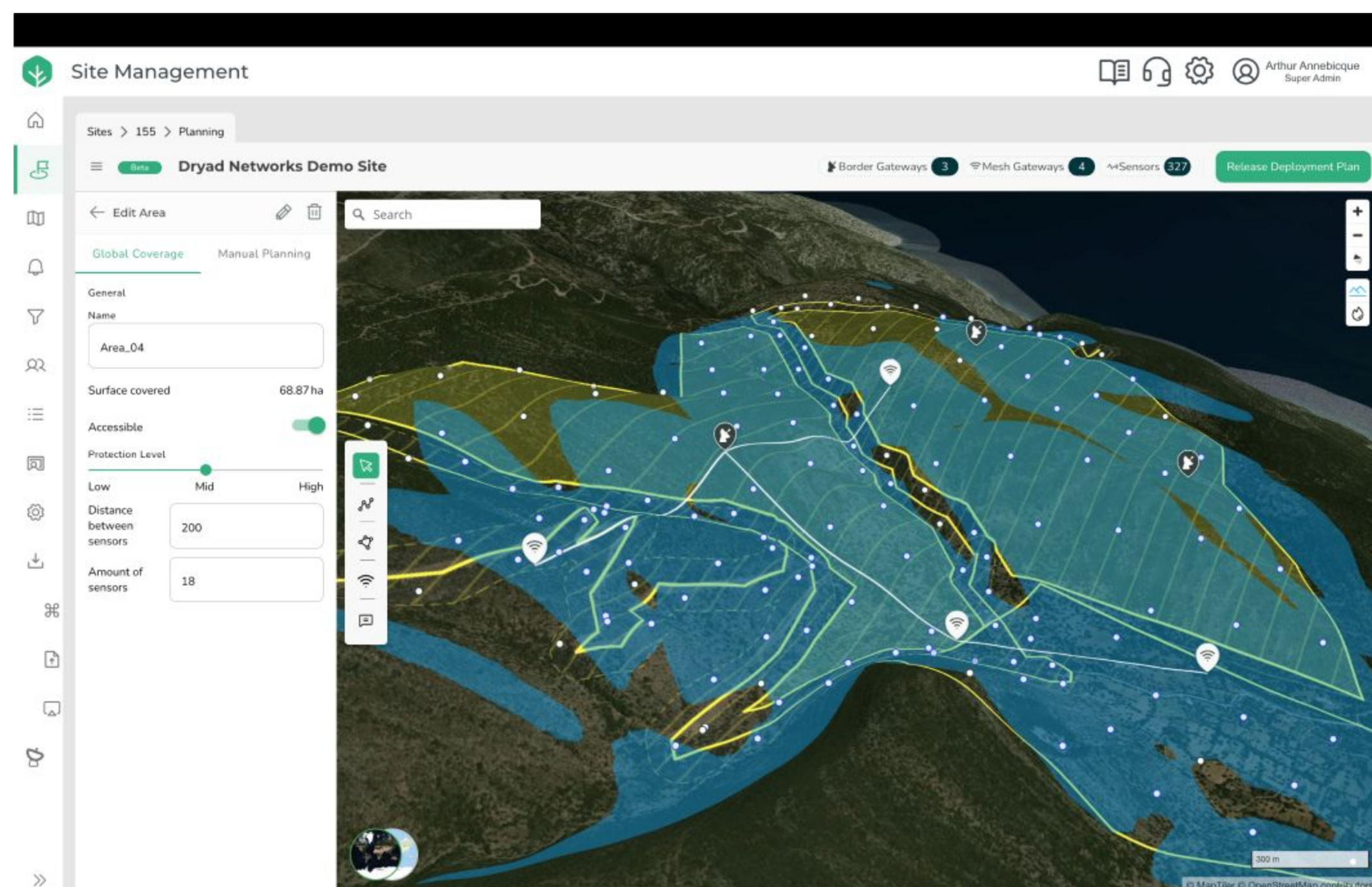
Site Management

Sensor Information

Alert Centre

LoRaWAN Coverage Simulation

Fire Risk Prediction