FIREWATCH

GEOSPATIAL INSIGHT

FireWatch

Live Wildfire Monitoring, Anticipate. Mitigate. Recover

TECHNICAL PRODUCT SHEET

In 2024, global insured losses from wildfires reached approximately US $3 billion, accounting for around 7% of all insured natural catastrophe losses, up from a long-term average of just 1%. Early 2025 saw severe wildfires in California add further strain, and these events highlight the increasing unpredictability of wildfire behaviour driven by climate change.

Introducing FireWatch, the wildfire prediction and monitoring platform, that integrates live satellite analysis with environmental and weather data. Delivering near real-time intelligence, FireWatch supports faster, smarter decisions to mitigate risks, protect communities, and reduce financial impacts.

Overview

FireWatch is a next-generation wildfire risk intelligence and monitoring platform. Accessible via API or dashboard, it combines Earth Observation (EO) satellite feeds, weather forecasting, environmental data including, soil moisture data, and historical wildfire records into a single, high-speed system. Near real-time updates enable accurate wildfire prediction, detection, tracking, and damage assessment, empowering insurers, emergency responders, and policymakers to act decisively.

Features

FireWatch provides:

- **Risk Assessment:** Unique wildfire risk index to deliver a dynamic daily update of risk status
- **Forecasting & Alerts:** Near real-time wildfire detection and tracking
- **Monitoring:** Live hotspot and perimeter updates up to 4x daily
- **Impact Analysis:** Post-event overlays and optional AI-driven damage assessment
- **Trend Analysis:** Historical wildfire records eliminate false positives and enable modelling of future trends

Technology & Data Sources

FireWatch integrates multiple data sources including:

- MODIS and VIIRS satellites for hotspot detection
- IRWIN wildfire perimeter data (US-only)
- High-resolution weather models at 2km
- Climate and environmental data
- Daily soil moisture data
- Historical wildfire records
- Optional high-resolution satellite imagery and fire extents

Outputs are refreshed up to four times daily and processed in the cloud for fast, scalable, near real-time access.

Accuracy & Performance

FireWatch outputs have been independently validated against observed wildfire events.

The system delivers near-real time updates of fire extents, significantly faster than conventional monitoring approaches.

High accuracy achieved through validation against high-resolution satellite imagery.

FireWatch seamlessly integrates into enterprise systems, operational dashboards, digital twins, climate risk platforms and can be delivered by customisable dashboards.

Integration & Access

Use Cases

- **Insurance:** Assess and monitor exposure, enable parametric triggers, streamline claims
- **Emergency Response:** Track wildfire progression in near real-time for deployment
- **Government & Policy:** Support resilience planning, land management, and mitigation
- **Infrastructure & Utilities:** Assess wildfire risks to critical assets and operations
- **Reinsurance:** Improve portfolio management and strengthen negotiations

Benefits

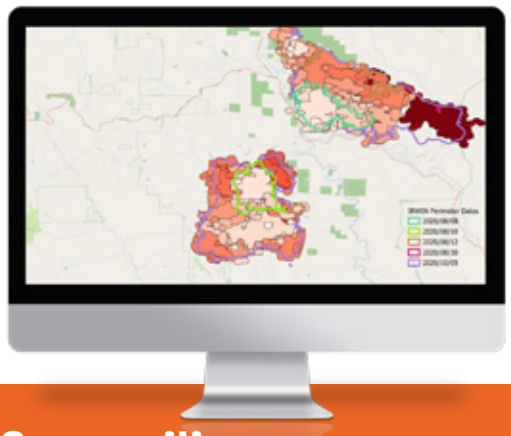
- **Risk Assessment:** Combines live and historical data for improved underwriting models
- **Loss Mitigation:** Provides early warnings to minimise damage and disruption
- **Policy Development:** Supports evidence-based policy design and implementation
- **Supply Chain Resilience:** Provides early hazard insights to anticipate disruption
- **Portfolio Management:** Supports exposure tracking and reinsurance negotiations

Technical Specifications

Feature:	Detail:
Spatial coverage	North America and Southern Europe
Update frequency	Up to 4x daily (near real-time feeds)
Delivery formats	API, Web Dashboard, GIS files, CSV, PDF Reports
Integration options	REST API, webhooks, custom pipelines

Support & Customisation

Full onboarding, training and technical documentation included. Custom integration and configuration support available for enterprise clients.



Fast, reliable intelligence for wildfire resilience:

Contact us now to explore how our solutions can enhance your fire detection and mitigation efforts.

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