

Save Lives and Property and Make Better, Faster Decisions by Forecasting Wildfire Behavior in Real Time

Battling Wildfires Demands Early Warning and Up-to-Date, High-Resolution Data

Climate change is amplifying the ferocity and impact of wildfires. Hotter springs and summers, longer dry spells and extended droughts, and rampant tree mortality have made wildfires more massive, powerful, lethal, and costly around the world.

In California particularly, seasonal offshore weather patterns (the “Santa Ana” and “Diablo” winds) have fueled catastrophic fires that destroy lives and property in the Wildland Urban Interface and disrupt crucial services and commerce statewide.

All critical decision-makers—firefighting, public safety and first responder agencies; utilities and telecommunications companies; and regulatory authorities—urgently need to know, in advance and in real time, conditions specific to local geographies that will drive the behavior and growth of a wildfire.

Jupiter FireScore™ Operations Delivers Real-Time Wildfire Intelligence

FireScore Operations is designed to increase lead time and improve and accelerate decision-making for emergency managers in the public and private sectors. As the world’s most sophisticated wildfire risk platform, FireScore Operations seamlessly operationalizes state-of-the-art science to deliver intelligence about wildfire risk, conditions and likely behavior that is significantly better, clearer, more granular, and more timely than all other products. FireScore integrates real-time and forecast weather data, fire spread modeling, and satellite observations into high-resolution, hyper-local wildfire risk estimates with forecast horizons ranging from a few hours to a few days.

FireScore Operations provides a single source of information that enables all decision-makers to have identical situational awareness about threat levels, and where and when grid de-energization may be warranted due to the likelihood of outage-producing winds. It enables wildland firefighters and public safety agencies to:

- **Assess probable wildfire risk during events**, including those driven by Santa Ana or Diablo conditions
- **Pre-position and optimize resources**
- **Monitor new ignitions** using Jupiter’s wildfire detection algorithm, and
- **Predict fire spread** for evacuation planning and fire suppression strategies

FireScore Operations is built on top of the cloud-based Jupiter ClimateScore™ Intelligence Platform. It will be introduced in California at the start of the 2020 fire season, and be available in other at-risk geographies in the following months.

The Jupiter ClimateScore Intelligence Platform

Based on the latest global atmospheric science, ClimateScore is designed specifically for the rigors of dynamic climate and weather analysis and prediction. Its physics-based and artificial intelligence models are continuously fine-tuned using petabytes of constantly refreshed data from millions of ground-based and orbital sensors.

Novel machine learning techniques reduce local biases of scientific simulations and continually improve the accuracy of results as new observations become available. Jupiter HeatScore™, WindScore™, and FloodScore™ services are also based on the ClimateScore platform.

Jupiter Provides Dynamic, Hyper-Local Climate Risk Analytics

Jupiter Intelligence is a global leader in predicting, managing, and helping to reduce risk from short, medium and long-term climate change. Jupiter helps its customers assess the vulnerability of systems and critical infrastructure. They then can make operational and planning decisions based on their unique set of assets, risk profile, and operational time horizons that improve their resilience.

Jupiter offers asset-level, forward-looking climate risk projections based on

- **Models that are designed to reflect the dynamism** (“non-stationarity”) of climate change at a highly localized scale
- **Constantly refreshed, high-resolution data** that takes into account the specific factors that shape local climate and affect multiple perils

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