Wildfire Solution From Space



OroraTech November 2023 Richard Russell – Drone Services Fiji

Meet OroraTech

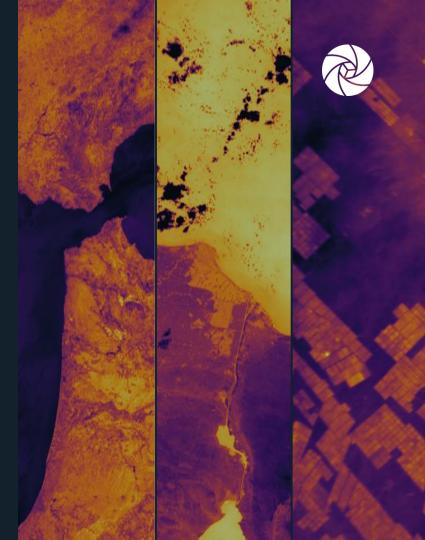
2018
Founded
in Munich

90+ Employees on 3 continents 20+ Nationalities 30% Female

300 Users in 20 countries

25+ satellites available

2 Satellites in orbit



Active On All Continents









OroraTech's Wildfire Solution Products



Before

Risk Assessment

- Fire Danger
- Weather & Vegetation

During

Early Detection Real-Time Monitoring

- Instant Alert
- Fire Location & Intensity
- Affected Area

• Fire Progression Monitoring

Fire Spread Prediction

After

Damage Analysis

- Burnt Area & Severity
- Long-term fire statistics

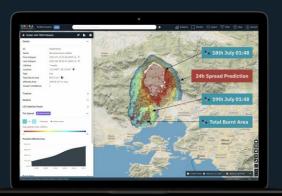
We Turn Raw Data Into Actionable Insights





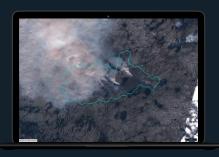
All-in-one AI-driven Wildfire Management





MAINTAIN OVERVIEW AND CONTROL

Predict fire growth, severity & assess risk and losses



SEE WHEN OTHERS ARE BLIND

Detect fires through smoke, in remote areas, 24/7



ACT DECISIVELY

Accurate resource dispatch for optimum suppression

Robust Infrastructure For Global Monitoring



2024 **Until 2027** 2022 2023

FOREST-1

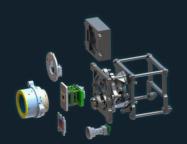
First Prototype cameras in operational orbit cameras

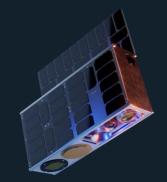
WFS Pro **FOREST-2**

> **12h** automated revisits with up to 6 daily images

WFS Pro

30-minute global coverage

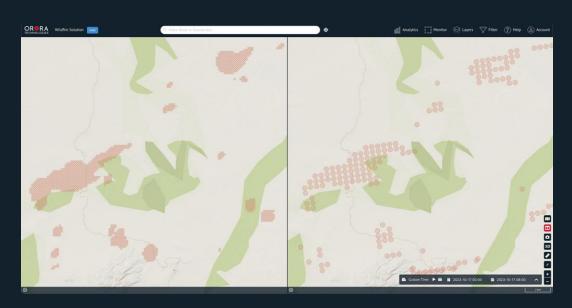






Real-Time Detection



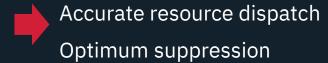


FOREST-2 (150 m) vs. NOAA-20/VIIRS (375m)

Northern Territory, AUS, 17 Oct 2023

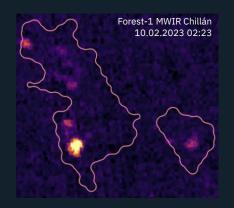
OroraTech Cameras:

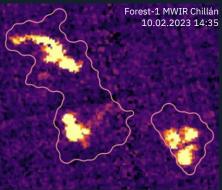
- Detect smaller fires >4x4m²
- Ultra-fast detection within minutes (18x faster)
- Sharper fire outline
- See through smoke and at night



Continuous Situational Awareness







- Triage fires with help of combined Spread Forecast and AI Fire Risk assessment
- Understand early which fires will cause largest damage

Dynamic forecast until next scan





Be a step ahead of every fire! Make better choices by setting the right priorities.

Asset Monitoring And Reporting



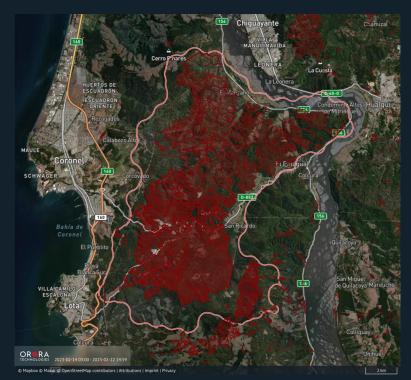
High-accuracy (<10m) estimates of losses

- o Burnt area
- Illegal harvesting

Daily assessment of burnt area



Continuous and automated assessment of losses even during high intensity days



WFS Is Available For All Your Devices And Control Rooms





- Access Detailed Wildfire Information With All Your Devices
- Personalized monitoring area and notifications

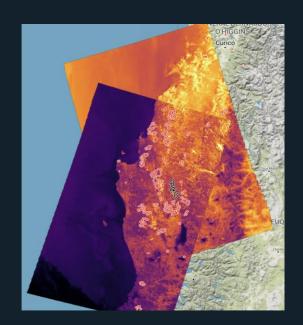


 Use Our API to Integrate Our Data Into Your Existing Control Rooms & Platforms

Used in Emergency Response

Chile, February 2023





Proprietary Live Data



Clusters overlaid with visual images

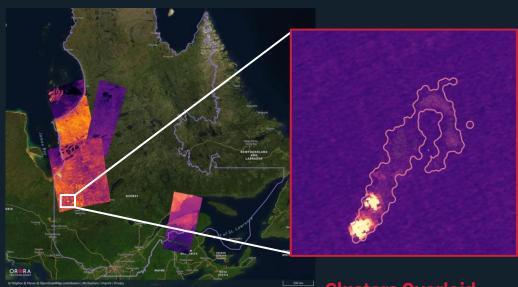


Daily Burnt Area assessment

Used in Emergency Response

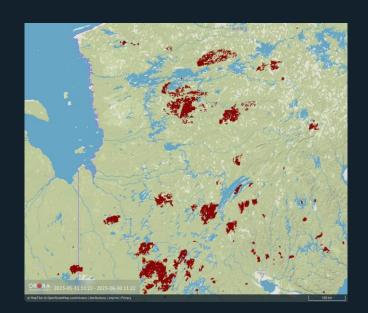
Quebec, June 2023





Proprietary Live Data

Clusters Overlaid For Situational Awareness



Daily Burnt Area Assessment

Our Customers Write Success Stories



MATHIEU PAYETTE

SOPFEU Quebec, Canada



"We map fires from space when other methods are not possible. OroraTech's WFS is an operational mindshift.

We never had success with the satellite based data before. In 2023, OroraTech became **the main information source** for fire detection and monitoring to maintain situational awareness."

MIKE SUTTON

Forestry Corporation

New South Wales,

Australia



"Having completed a six-month evaluation, FCNSW is continuing with its use of the Wildfire Service to assist with fire management in NSW State of forests.

The monitoring area and notification service is **particularly useful at providing early detection information** which facilitates a quick response to potential threats."

Act now! Questions?

Richard Russell

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