

OroraTech

Wildfire Solution

**Satellite-powered wildfire
detection, monitoring, and
analysis – built for emergency
response teams.**



Field-tested wildfire data & visualizations for emergency teams – from orbit to fireline.

Wildfire Solution is your digital wildfire toolkit. The platform delivers early wildfire detection notifications and clear visualizations to help support emergency responders worldwide. Harnessing 30+ proprietary* and public thermal satellite data sources in orbit, we stream impactful wildfire intelligence directly to firefighters to help teams respond before fires escalate.



**Available in English, German, Spanish,
Portuguese, French, and Greek!**

Tools for every stage of the fire

Pre-Fire

Risk Assessment

- Short Term Fire Hazard¹
- Weather information
- Fire danger index and forecast
- Vegetation and terrain analysis

¹product in beta testing

Active Fire

Early Detection

- 24/7 observation from 30+ satellites
- Automatic notifications via email, SMS, WhatsApp, etc.
- Accurate fire location and affected area

Near-real-time monitoring

- Continuous fire and intensity tracking
- Ultra-fast fire propagation modeling²
- Actionable incident overview
- Suppression planning

Post-Fire

Impact analysis

- Automatic high-resolution burnt area and severity map³
- Long-term fire statistics and reporting
- Fire origin and evolution



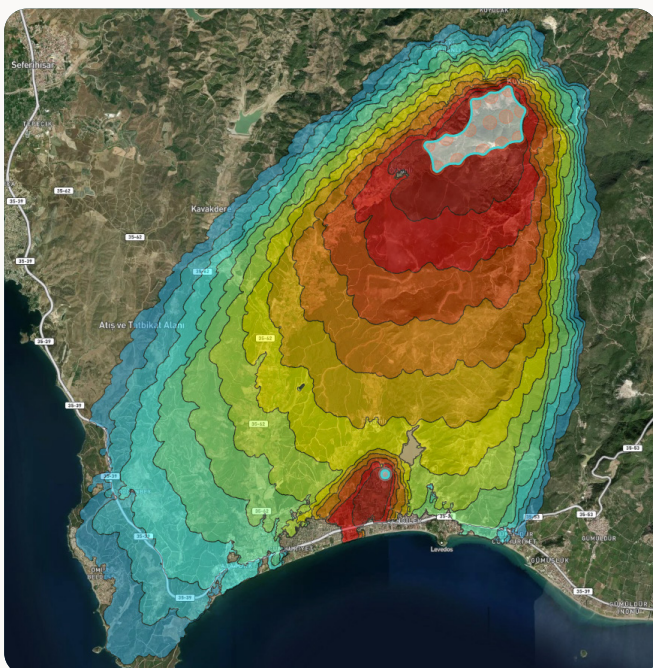
active fire

²Fire Spread add-on

Simulate based on a real fire or build "what if" scenarios, planning actions in advance.

Accurately simulate the spread of any fire up to 24 hours in advance. Share these simulations in PDF, KML or GeoJSON formats.

Place suppression assets accurately, focus on danger areas, and predict the next burn area.



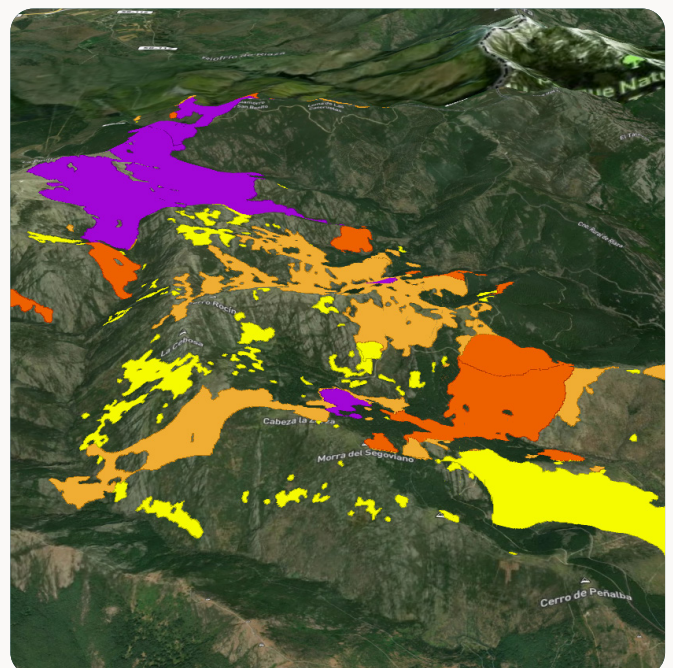
post-fire

³Burnt area add-on

Receive high-resolution, accurate burnt area, and severity map automatically.

Prioritize restoration efforts based on the areas of highest burn.

Save costs over traditional aerial or manual mapping techniques.



Operational Capability

Support frontline teams with real-time wildfire intelligence designed for active operations. Wildfire Solution helps incident commanders and emergency responders with:

10x10 m

smallest detectable
fire size

26

LEO satellite scans
per day (and counting).*

24/7

coverage

500 mio.

hectares are currently
under protection

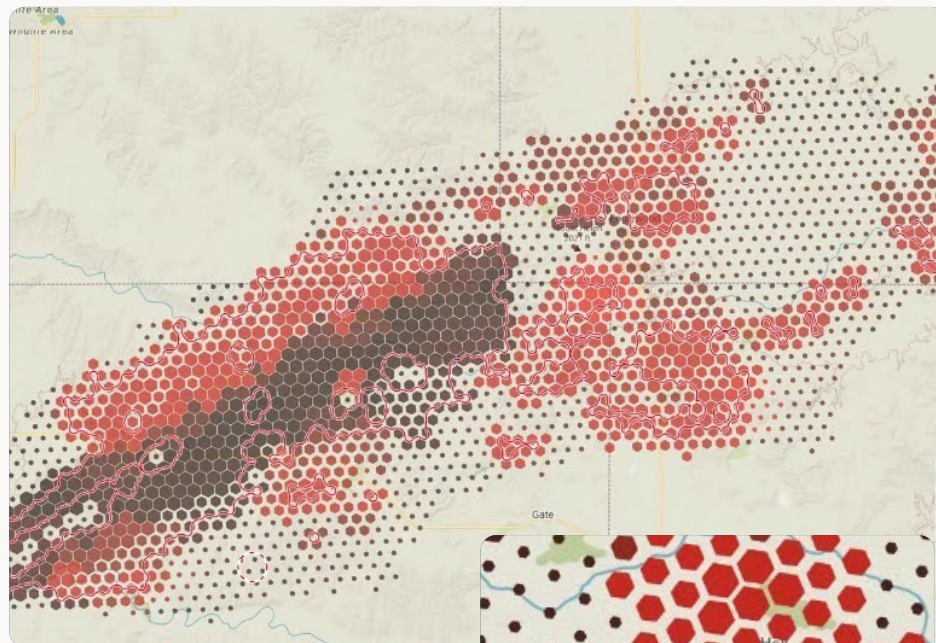
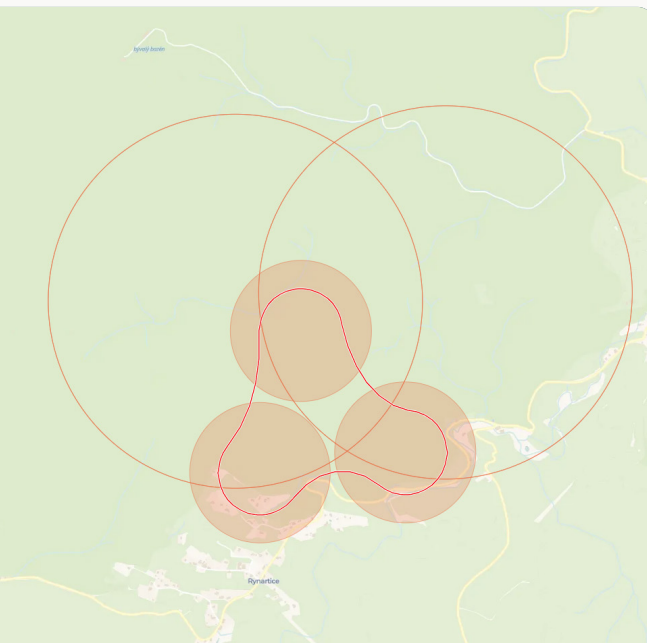
Fire confidence

Quickly assess how likely a
detection represents a real
wildfire with confidence.

Clear visualizations and live updates help teams act earlier
and respond with confidence.

Fire Grid Visualization

Beta



Fire Grid legend (r.)

The color indicates recency
of the fire detection.



Cell size indicates the fire's
location certainty.



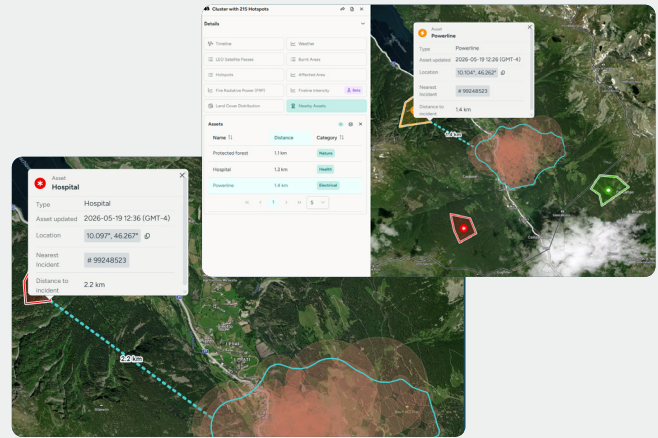
We now offer two ways to visualize a wildfire – our traditional Hotspots (l. img.), and our new Fire Grid visualization (r. img.). Hotspots is our detail-oriented, first detection viewpoint. Meanwhile, our brand new Fire Grid visualization is a way to see large, complex fires. It's designed to quickly and clearly show fires with thousands or tens of thousands of hotspots, showing a cleaner and more interpretable image.

Operational Tools

Asset management

Monitor critical infrastructure and population centers to understand:

- Fire distance to assets
- Estimated time to impact (coming soon)
- Nearby wildfire activity



Incident Overview

Centralize wildfire intelligence into one operational view for faster coordination during active incidents.

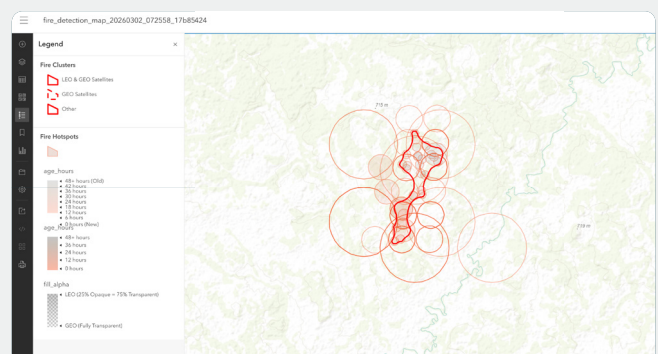
- One centralized screen for all fire incidents
- View all active fires at a glance and filter by area, fire size, time, and more.
- Manage multiple incidents while maintaining situation awareness.

Incident ID	Area Name	Fire Confidence	Last Hotspot	Hotspots	Affected Area	Area Tamed	FBP	FBP Tamed	Next Overpass
#99434327	Brazil, Para	High	2026-01-11 12:47	1	3.76 ha	→ 0.0%	31.33 MW	→ 0.0%	Show next overpass
#99438890	Brazil, Para	High	2026-01-10 14:35	2	8.35 ha	→ 0.0%	7.09 MW	→ 0.0%	Show next overpass
#99438291	Brazil, Para	High	2026-01-10 11:03	8	48.81 ha	→ 0.0%	0.00 MW	-	Show next overpass
#99438291	Australia, NSW	High	2026-01-09 02:55	14	4.32 ha	→ 7.0%	0.00 MW	-	Show next overpass
#99438291	Brazil, Para	High	2026-01-09 14:24	1	3.76 ha	→ 0.0%	8.24 MW	→ 0.0%	Show next overpass
#99438291	Australia, NSW	Very High	2026-01-09 12:52	22	40.89 ha	→ 0.0%	0.50 MW	→ 42.0%	Show next overpass
#99438291	South Africa, Mpumalanga	High	2026-01-09 09:46	1	27.78 ha	→ 0.0%	55.45 MW	→ 0.0%	Show next overpass
#99438291	South Africa, Mpumalanga	Very High	2026-01-09 09:46	93	283.30 ha	→ 50.0%	305.11 MW	→ 41.2%	Show next overpass
#99438291	South Africa, Mpumalanga	High	2026-01-09 08:13	6	39.65 ha	→ 0.0%	37.72 MW	→ 20.2%	Show next overpass
#99438291	South Africa, Mpumalanga	High	2026-01-09 08:23	2	9.35 ha	→ 147.7%	8.92 MW	→ 10.2%	Show next overpass
#99438291	South Africa, Mpumalanga	High	2026-01-09 08:23	2	9.58 ha	→ 0.0%	32.63 MW	→ 0.0%	Show next overpass
#99438291	South Africa, Mpumalanga	Very High	2026-01-09 08:23	50	113.77 ha	→ 29.2%	154.43 MW	→ 47.8%	Show next overpass
#99438291	South Africa, Mpumalanga	High	2026-01-09 08:23	1	3.77 ha	→ 0.0%	5.49 MW	→ 0.0%	Show next overpass
#99438291	South Africa, Mpumalanga	Very High	2026-01-09 08:23	35	14.80 ha	→ 19.2%	5.93 MW	→ 52.4%	Show next overpass
#99438291	Brazil, Para	High	2026-01-08 14:43	1	3.76 ha	→ 0.0%	2.63 MW	→ 0.0%	Show next overpass
#99438291	Australia, NSW	Medium	2026-01-08 08:38	4	27.82 ha	→ 0.0%	14.11 MW	→ 0.0%	Show next overpass
#99438291	Australia, NSW	Very High	2026-01-07 21:05	24	123.98 ha	→ 0.0%	0.00 MW	-	Show next overpass
#99438291	Brazil, Para	High	2026-01-07 14:12	1	3.76 ha	→ 0.0%	3.62 MW	→ 0.0%	Show next overpass

Public Snapshot & ESRI Integration.

Easily share the wildfire incident for those without Wildfire Solution logins or export it directly into ArcGIS with one click.

- Share live wildfire updates across teams and agencies
- Integrate wildfire intelligence directly into existing GIS workflows
- Improve coordination with clear, accessible operational views



What others say about OroraTech

"We map fires from space when other methods are not possible. OroraTech's WFS is an operational mindshift. We have never had success with satellite-based data before.

In 2023, OroraTech became the main information source for fire detection and monitoring to maintain situational awareness."



Director of Aviation Services
SOPFEU Quebec, Canada

"In Brazil's Rio Cautário project, we managed to reach zero fires in the protected area thanks to the combination of community training and satellite alerts from OroraTech. That progress also helped us improve the quality of our forests and save the land more efficiently."



Remote Sensing Analyst
Permian Global, UK

„What OroraTech has developed is closely aligned with the goals many in the field have been striving toward – a practical, integrated tool for improving wildfire response. The platform brings together an exceptional number of satellite sources, allowing a level of fire monitoring that feels nearly real-time, especially valuable in complex or fast-moving fire situations."



Project Officer
European Commission

„We were seeking a platform that could help us detect bushfires early. We have found OroraTech to be a great fit for our needs, and it is aligned with our organization's mantra of early detection and rapid response. While others provide satellite data, what sets OroraTech apart is its start-up culture, excellent customer liaison team, and commitment to meeting our needs. Members of the OroraTech team listen to our needs and are consistently improving the platform."



Fire Operations Manager
Tasmania Parks & Wildlife Services

Talk to us

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