



LUCI

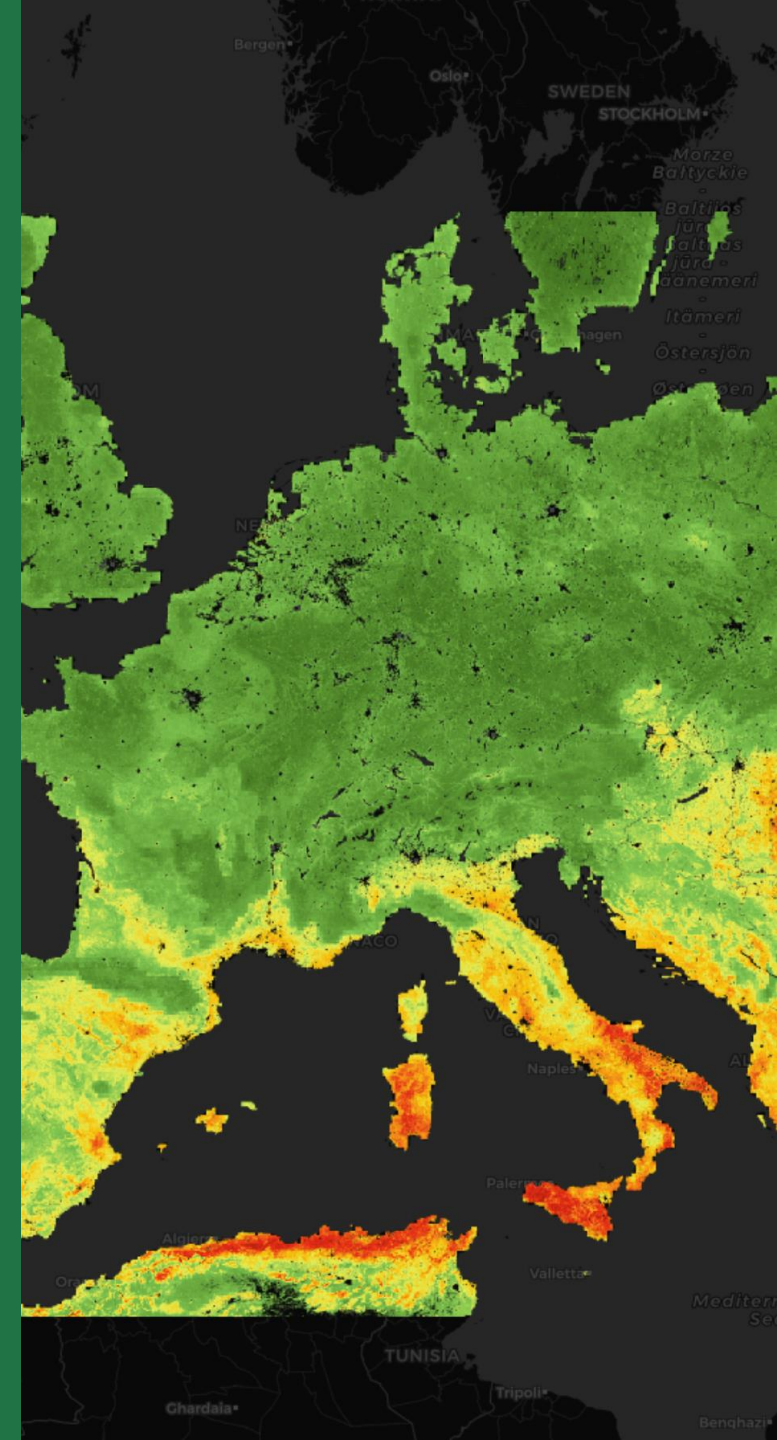
AI-powered wildfire **prevention**

🏠 As we expand the **wildland-urban interface**, we're increasing exposure to wildfire zones.

💧 **Proactive intervention** saves lives and resources. Every \$1 invested in sustainable fuel management saves \$5-\$10 in suppression and recovery costs.

🔧 **Land managers** can use LUCI to prepare before wildfire season, identifying high-risk areas and planning mitigation efforts in advance.

🇮🇹 During fire season, emergency responders can use LUCI for **real-time risk updates, ensuring faster, data-driven decision-making** and resource deployment in the field.



Off fire-season wildfire risk

Get Ahead of Wildfire Risk

Winter is the critical window for wildfire preparation. With LUCI's off-season analysis, you can identify summer wildfire hotspots months in advance, allowing for early action before risks escalate.

🔥 Forecast & compare wildfire risk over time

LUCI tracks shifting risk patterns, using granular time intervals as short as two weeks. Compare weeks, months, or years to uncover trends and spot emerging threats before peak season.

🌿 Tackle risk early with smart fuel management

Plan controlled burns, vegetation thinning, and firebreaks based on LUCI's validated priority list. Adjust cluster sizes to match available resources, ensuring targeted, high-impact mitigation.

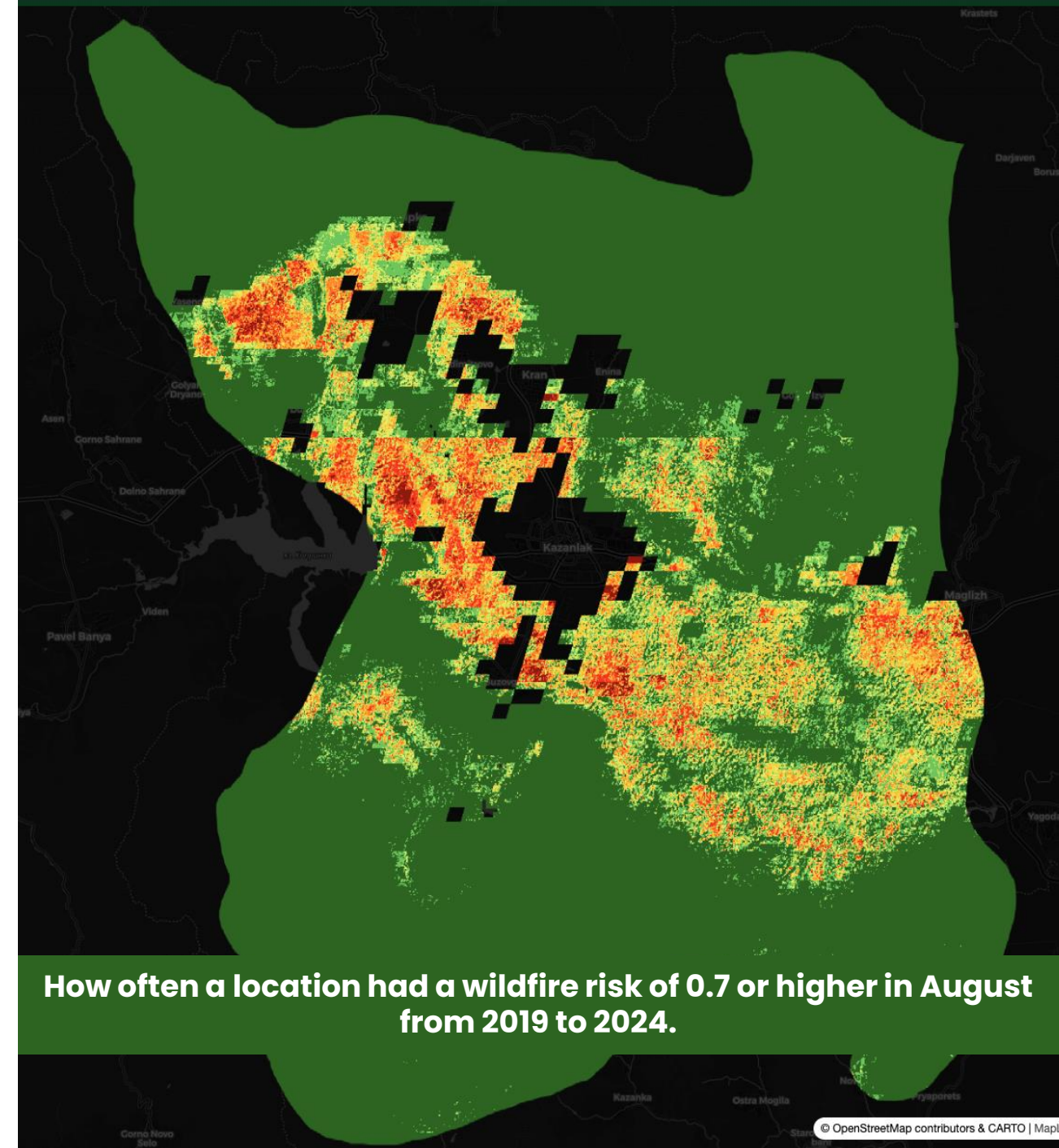
📌 Plan proactively, not reactively

Instead of reacting to fires, strategically allocate resources in advance. Use LUCI's insights to optimize prevention efforts and enhance community preparedness before wildfire season starts.

💡 Why prepare in winter?

- ✓ Identify and track wildfire hotspots months ahead
- ✓ Compare risk trends over time to plan smarter
- ✓ Customize mitigation efforts based on resources
- ✓ Ensure readiness before conditions intensify

Wildfire prevention starts long before the first spark. Get ahead of the risk with LUCI this winter.



13-07-2022

01-08-2022

28-08-2022

On fire-season wildfire risk

Make Smarter, Faster Wildfire Decisions

When wildfire season hits, every second counts. LUCI's on-season analysis provides real-time risk insights, helping you respond faster, allocate resources efficiently, and stay ahead of evolving fire conditions.

🔥 Track & predict wildfire risk in real time

Wildfire risk shifts rapidly during peak season. LUCI continuously analyzes current weather, vegetation, and historical fire patterns to identify high-risk areas as they develop, so you can act before fires ignite.

🚒 Optimize resource deployment

With LUCI Flow's automated wildfire risk updates, you get a clear, dynamic priority list. Adjust cluster sizes to align with available personnel and equipment, ensuring firefighting efforts are focused where they matter most.

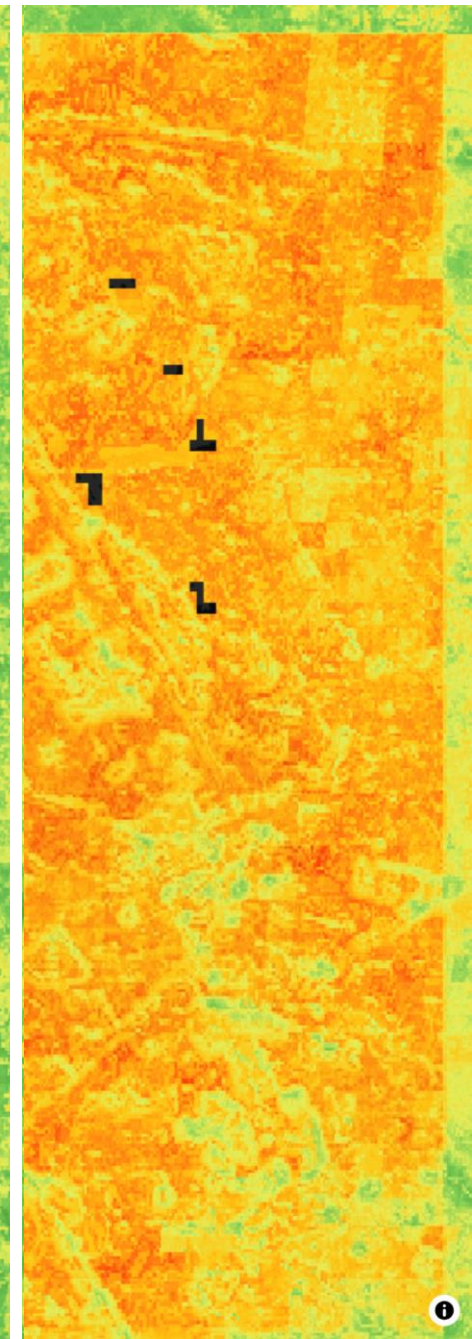
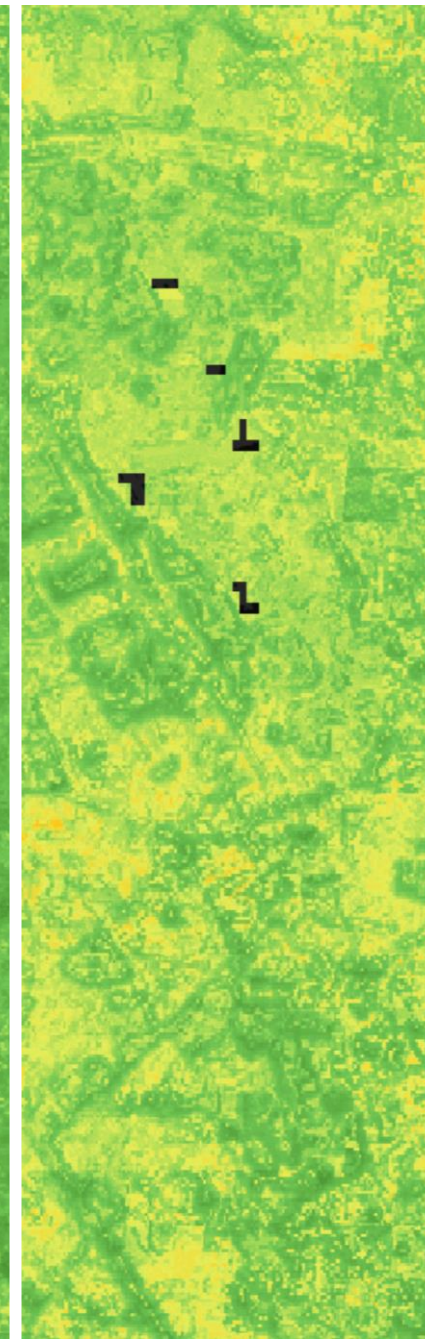
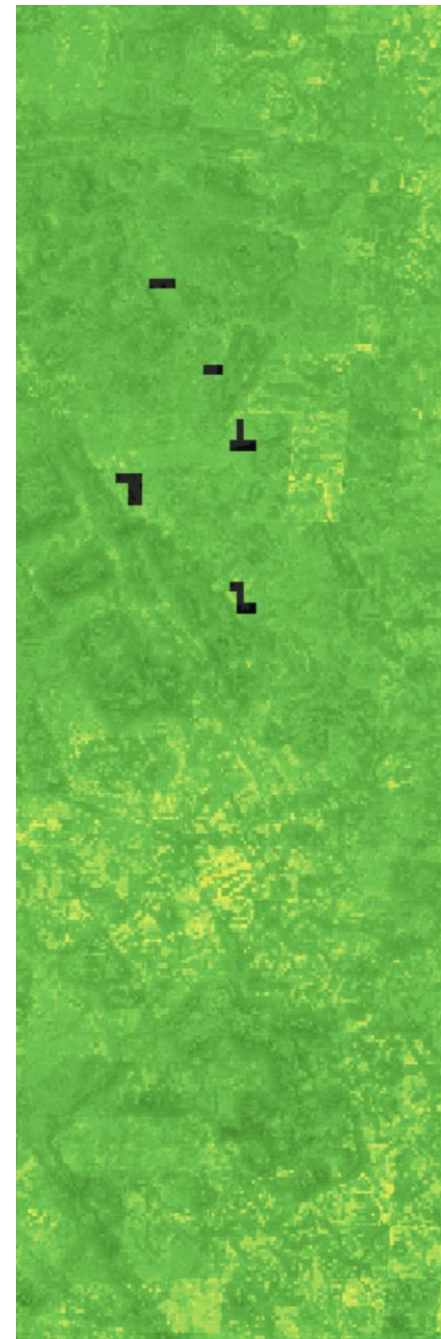
⚡ Stay adaptive & proactive

Traditional weather indices alone aren't enough. LUCI delivers a more complete risk picture, allowing you to adjust strategies in real time as conditions change. Whether it's pre-positioning crews, reinforcing firebreaks, or issuing early warnings, LUCI gives you the data-driven advantage to stay one step ahead.

💡 Why use LUCI during fire season?

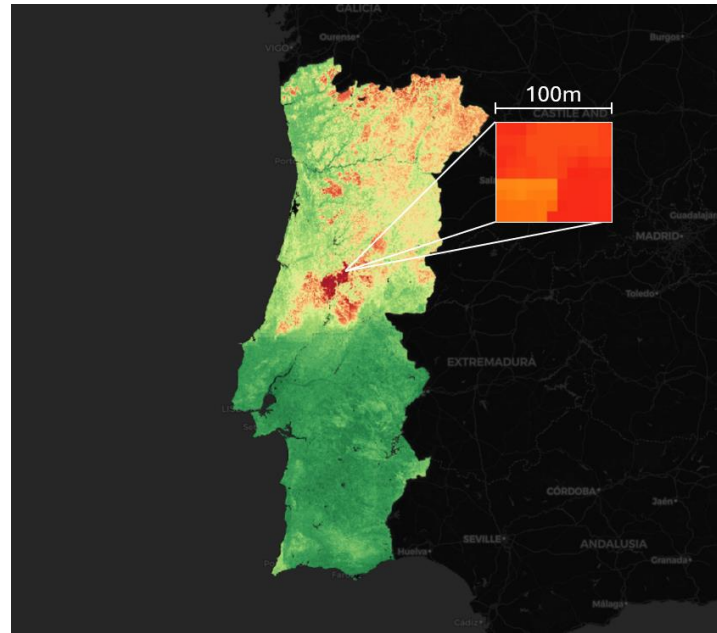
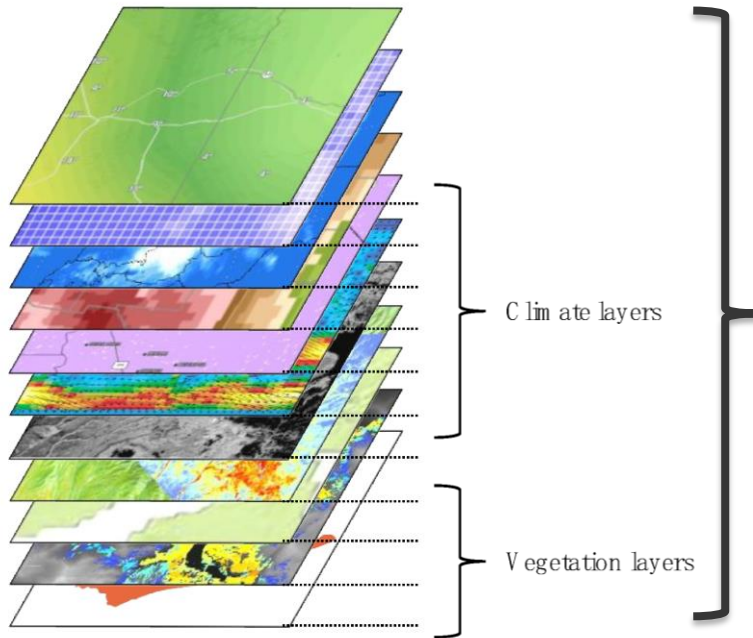
- ✓ Identify high-risk areas before fires ignite
- ✓ Get automated, real-time wildfire risk updates
- ✓ Deploy resources efficiently with dynamic risk clustering
- ✓ Adapt strategies as fire conditions evolve

Wildfire response is a race against time. Make every decision count with LUCI.



What is LUCI?

Wildfire susceptibility mapping



Machine Learning modelling:

We generate global wildfire risk maps and analyze historical data to detect wildfire trends—whether within a single season or across multiple years.

Powered by LUCI, our machine learning algorithm integrates anthropogenic, topographic, vegetation, and weather data, achieving 90% accuracy in wildfire susceptibility assessment.

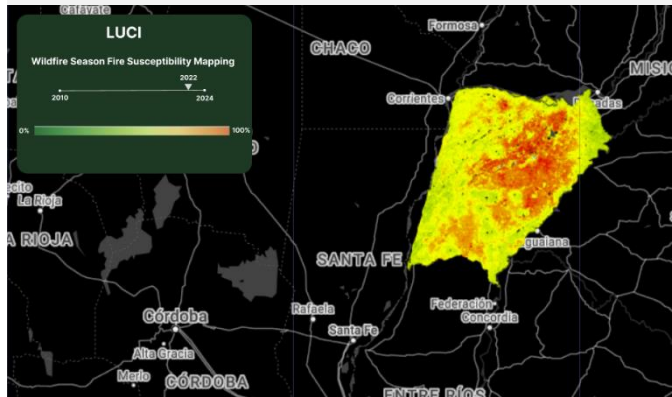
This insight fuels proactive risk management, enhances decision-making, and improves wildfire preparedness.

How can LUCI help prevent wildfires?



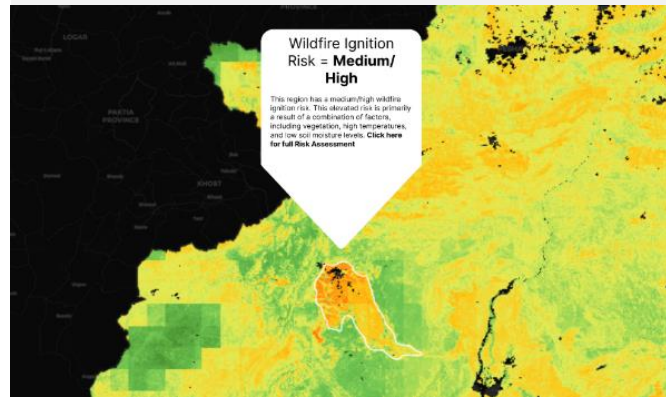
When is the risk high?

LUCI tracks wildfire susceptibility over time to highlight changing risk levels



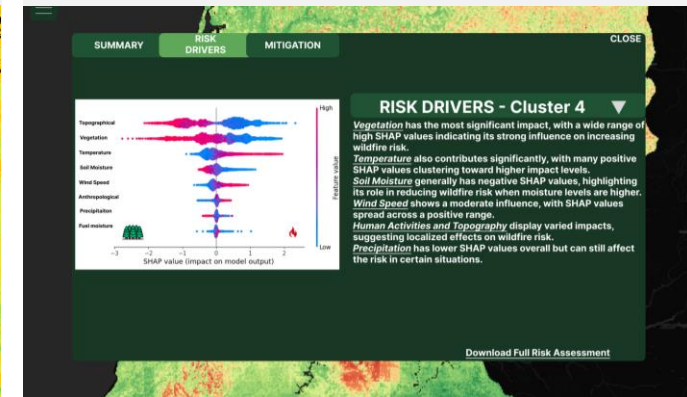
Where is the risk high?

LUCI pinpoint's high-risk locations using real-time and historical data

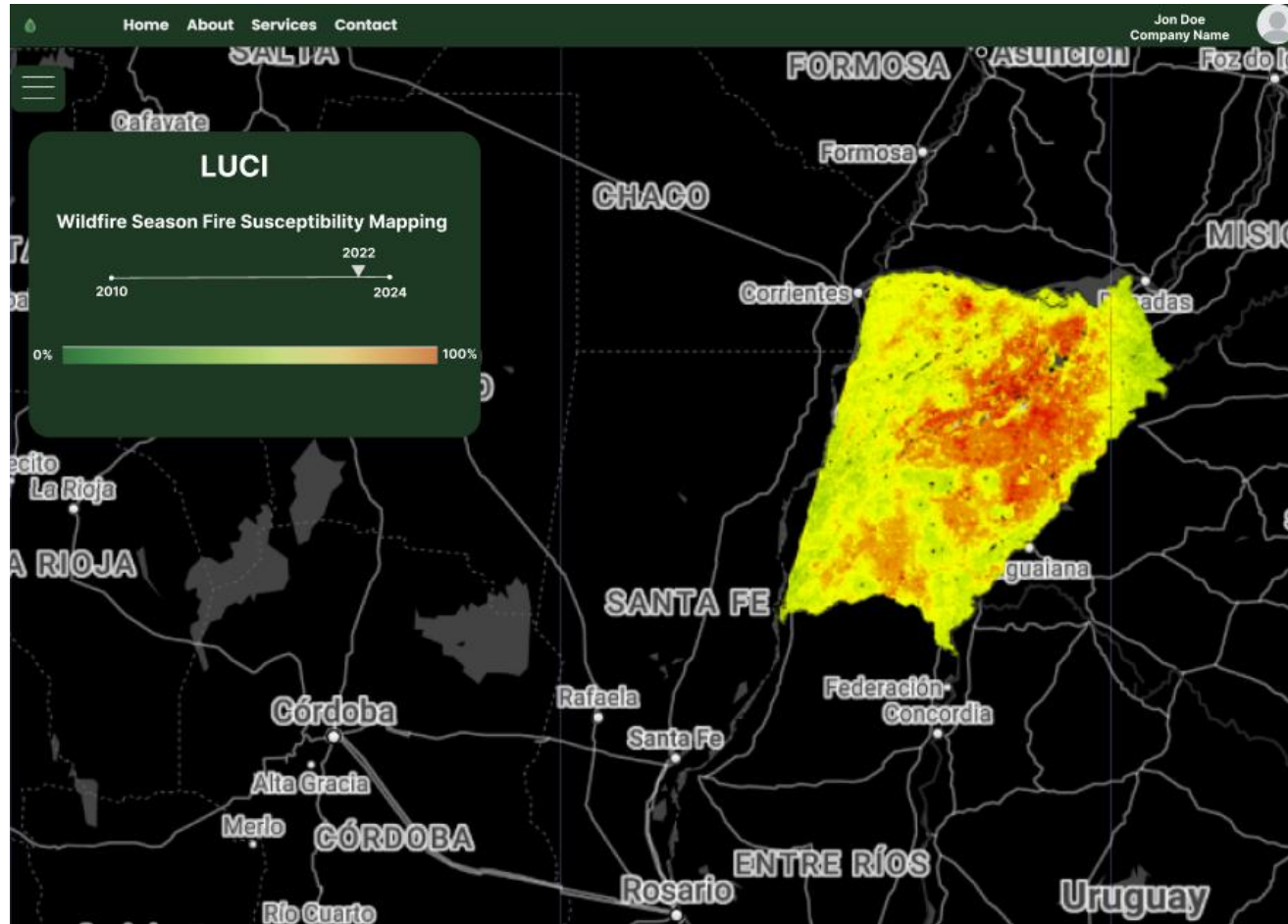


Why is the risk high?

LUCI identifies key risk drivers, such as anthropogenic, vegetation, topography, and weather conditions



When



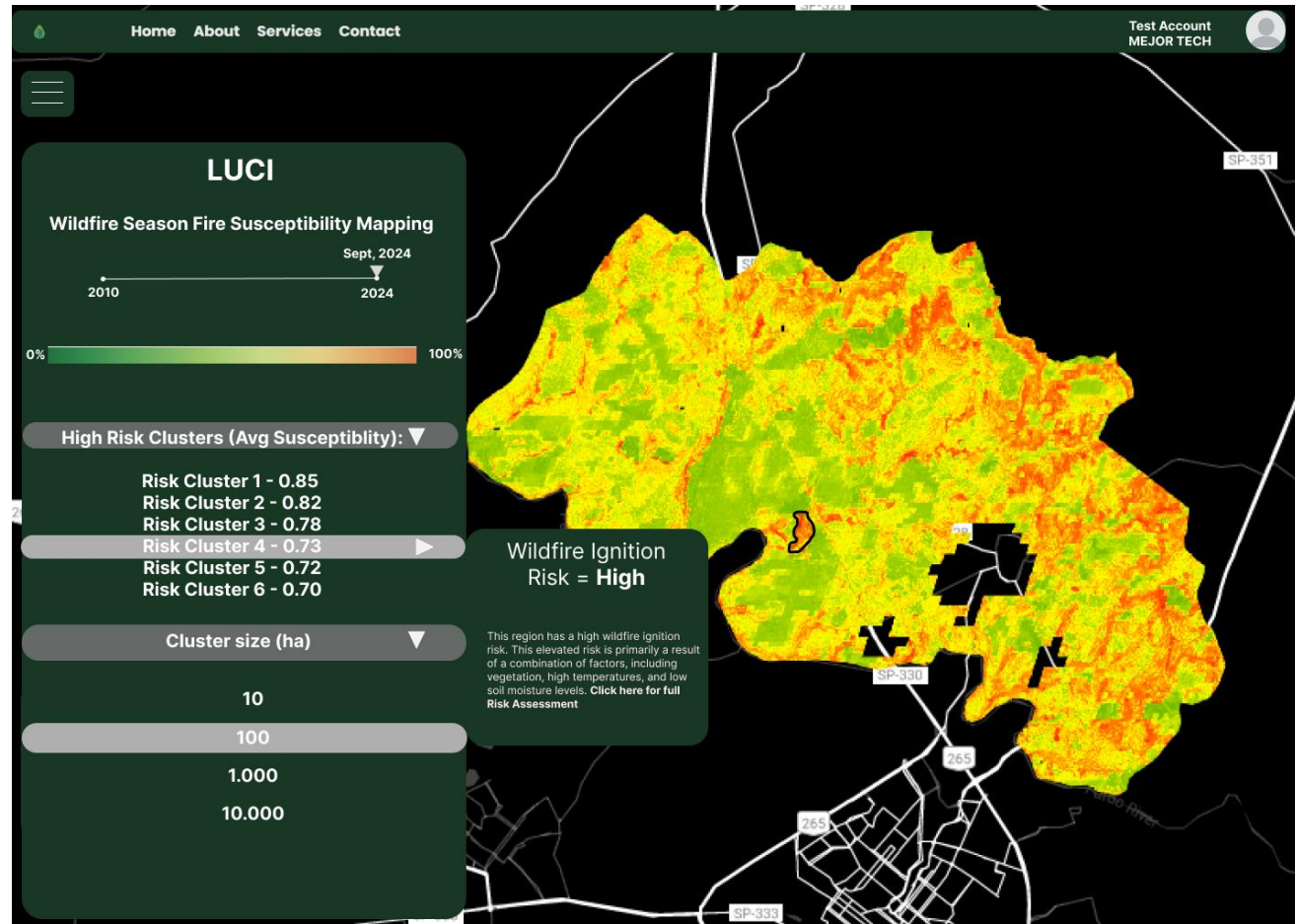
LUCI tracks wildfire risk over time, providing insights into past patterns, current threats, and future projections where data allows.

Don't just focus on current risk—explore past events and compare trends. With granular timescales as small as two weeks, you can analyze and compare specific weeks, months, or years to uncover shifting risk patterns.

LUCI Flow automates this process, delivering insights into how wildfire risk evolves across locations and time periods. This empowers teams to strategically plan prevention efforts before the season and make real-time decisions when wildfire conditions intensify.

Beyond traditional weather-based indices, LUCI provides a comprehensive wildfire risk picture, **enabling scenario-based risk analysis and smarter decision-making**.

Where

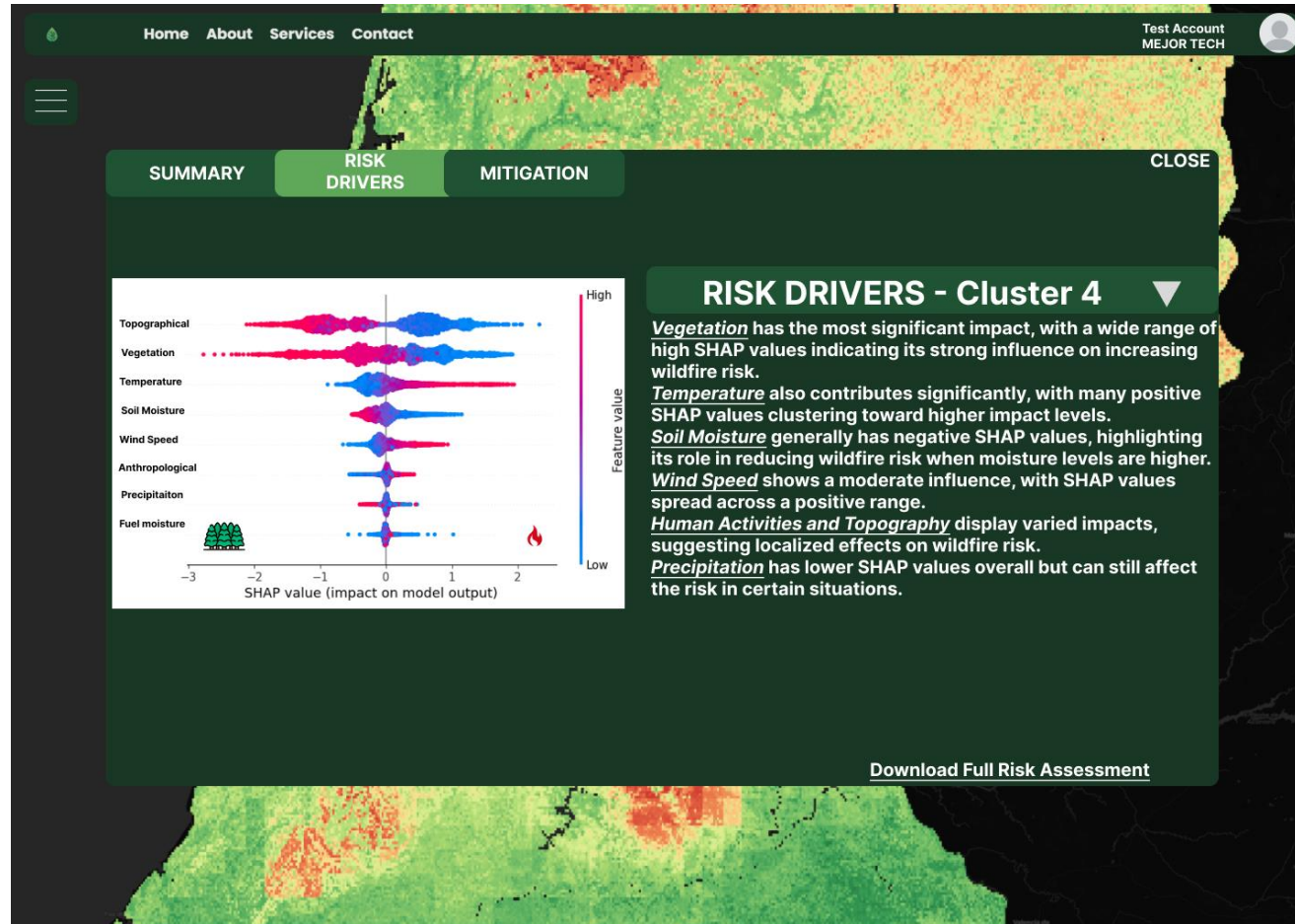


LUCI provides high-resolution wildfire risk mapping at **10x10 meters per pixel**, delivering unmatched precision in risk assessments.

Its insights generate a priority list of risk clusters and by allowing users to adjust cluster size based on available resources, this ensures prevention efforts are **both feasible and effective**.

By optimizing resource allocation, LUCI helps direct attention to high-risk areas, making wildfire prevention **more strategic and efficient**.

Why



LUCI provides **land managers** with detailed insights into the key risk drivers behind wildfire susceptibility.

By analyzing factors such as vegetation, topography, and weather conditions, LUCI helps prioritize mitigation efforts where they will be most effective.

Since some landscape features—like terrain—are difficult to modify, investing in **the right prevention strategies** is crucial.

With precise, **data-driven insights**, LUCI ensures efficient resource deployment, maximizing environmental and economic resilience.



MEJOR TECHNOLOGIES

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