MEJOR TECHNOLOGIES

Wildfire solutions

AI- and Data-driven wildfire prevention and mitigation

By MEJOR Technologies

22-01-2024

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We are MEJOR Technologies

MEJOR Technologies is a company specialising in AI visualisation software that focuses on pre- and during-wildfire management.

Our **dedicated team** is driven to fight against wildfires.

Our innovative solutions offer new ways to prevent and improve wildfire fighting.

We can do more! Check us out in the links below!

Website

LinkedIn

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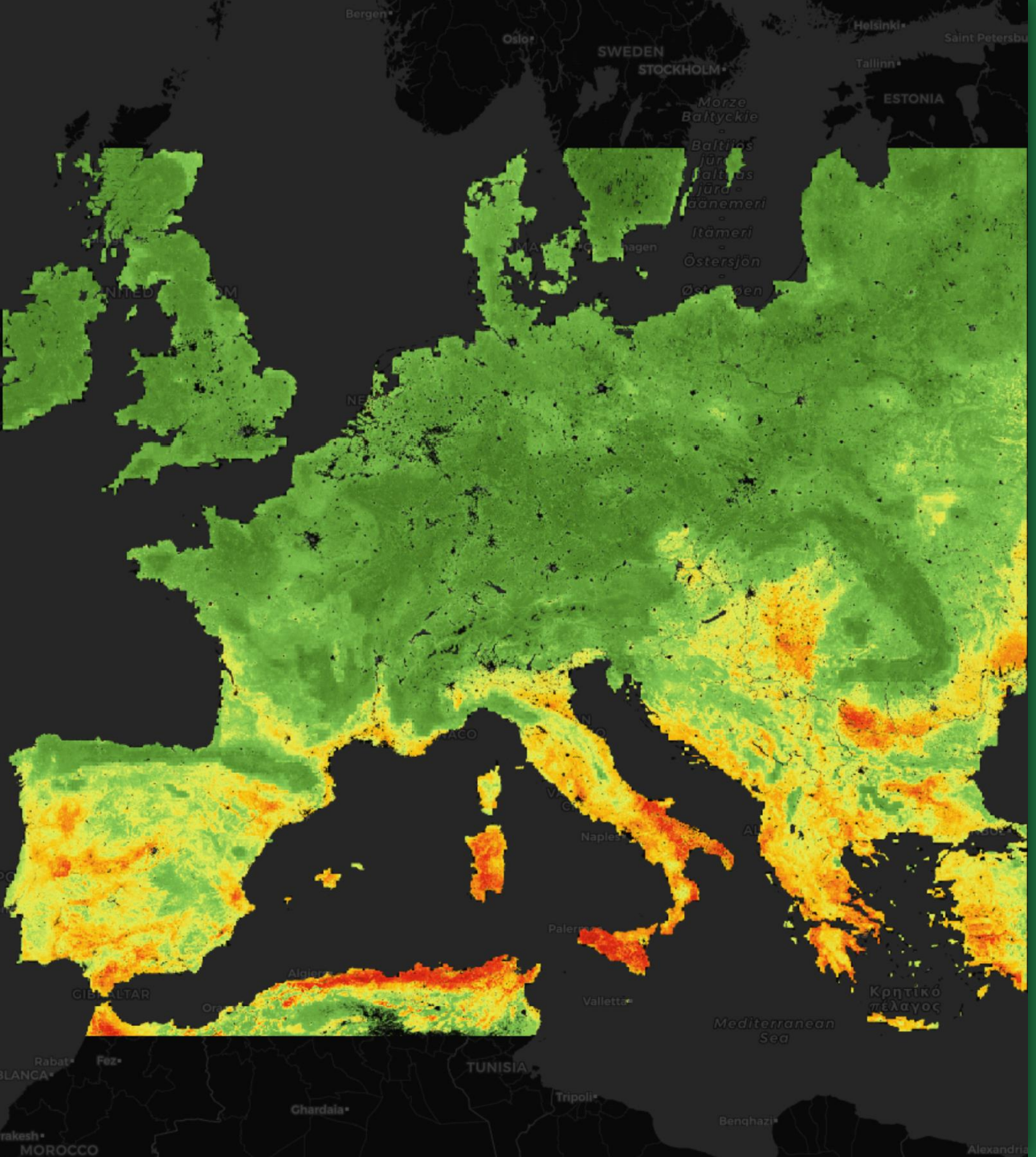
MEJOR Technologies is the wildfire intelligence partner of …

- Team Digital Exploration Dutch Fire Brigade
- Government of Bulgaria
- Government of Argentina
- Black Jaguar Foundation Brazil
- Australian Garlic
- FIRE-RES OIC

And …

- University of Technology Delft
- VU University Amsterdam



LUCI

AI-powered wildfire prevention

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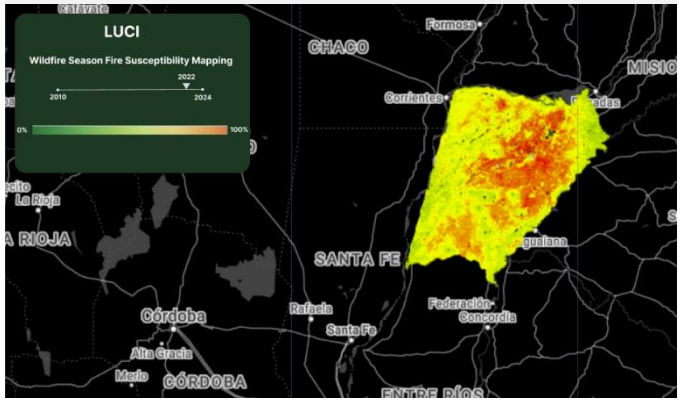
How can LUCI help prevent wildfires?

When is the risk high?



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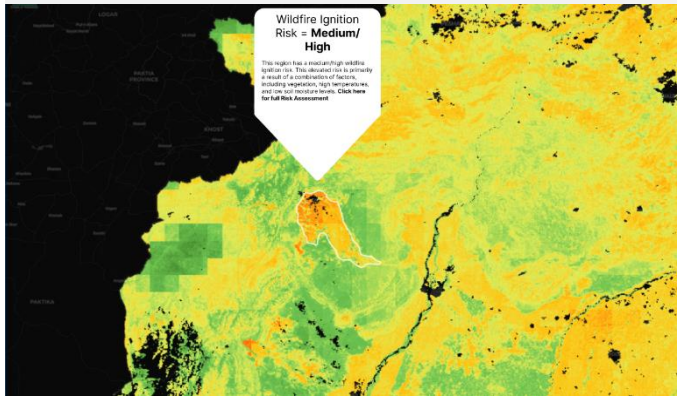

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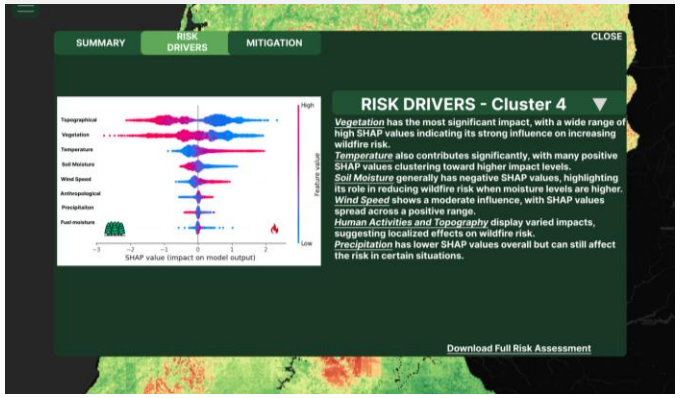

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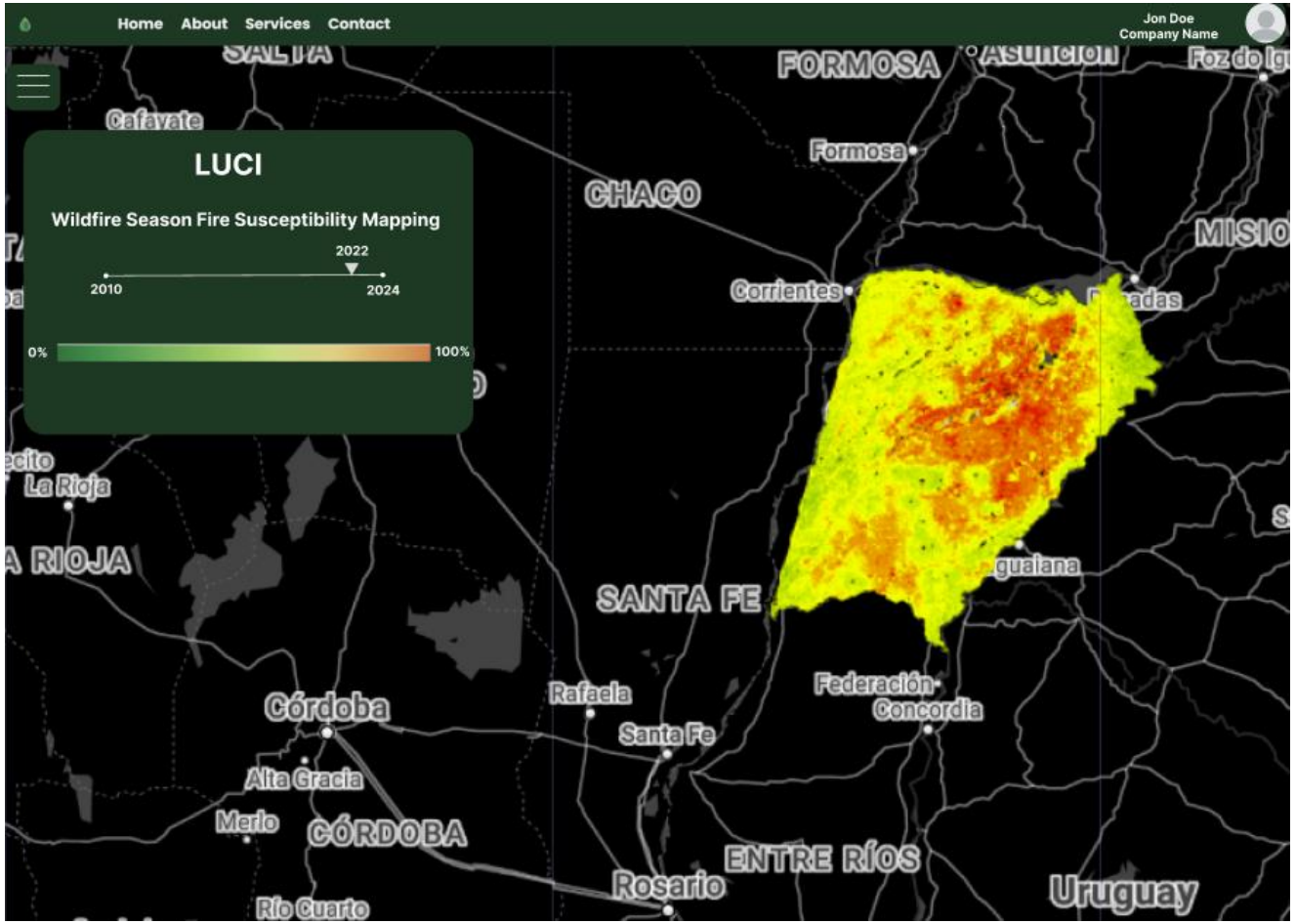
When is the risk high?



Temporal data analysis

- Historical
- Current
- Future
- Advanced analyses

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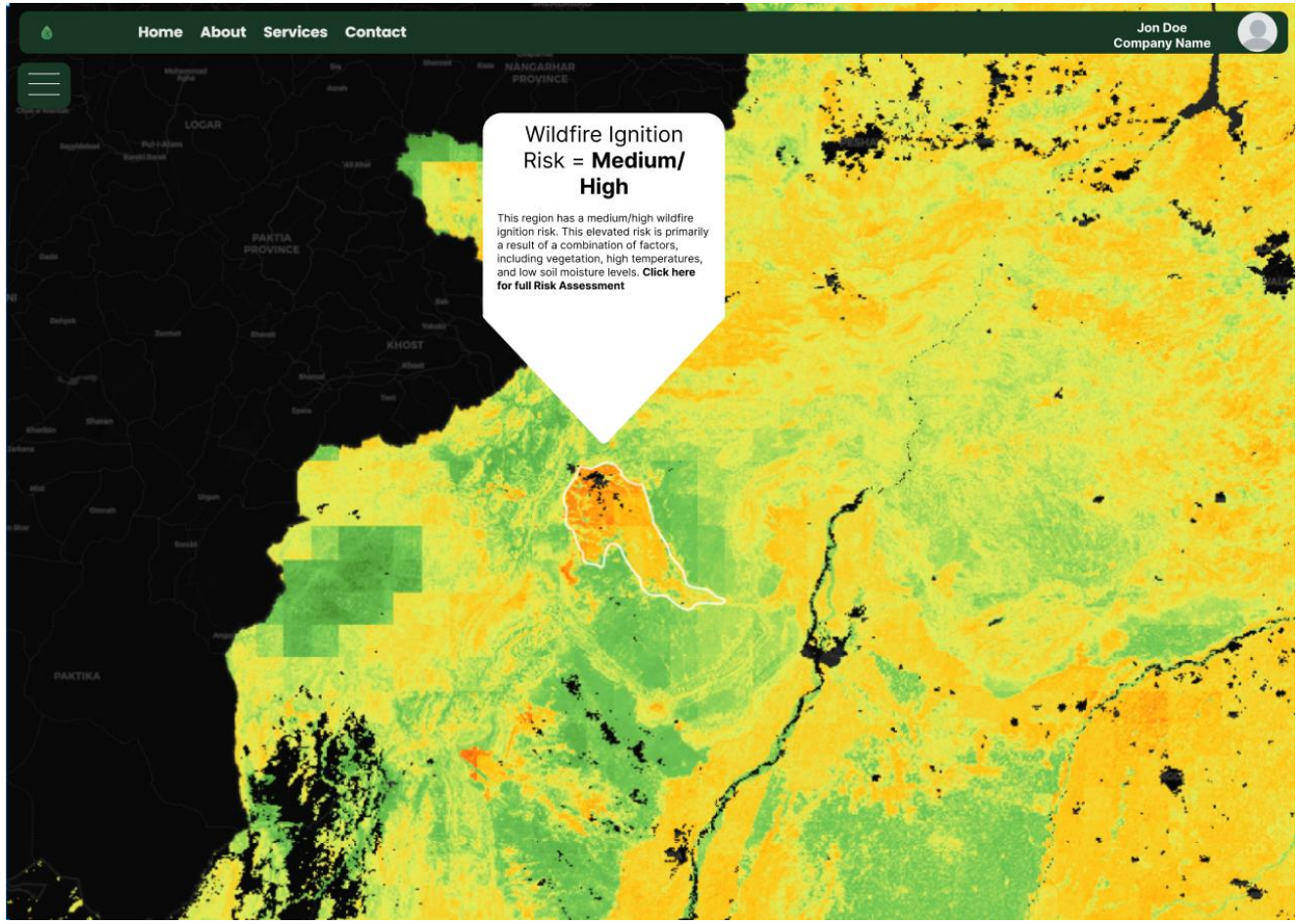
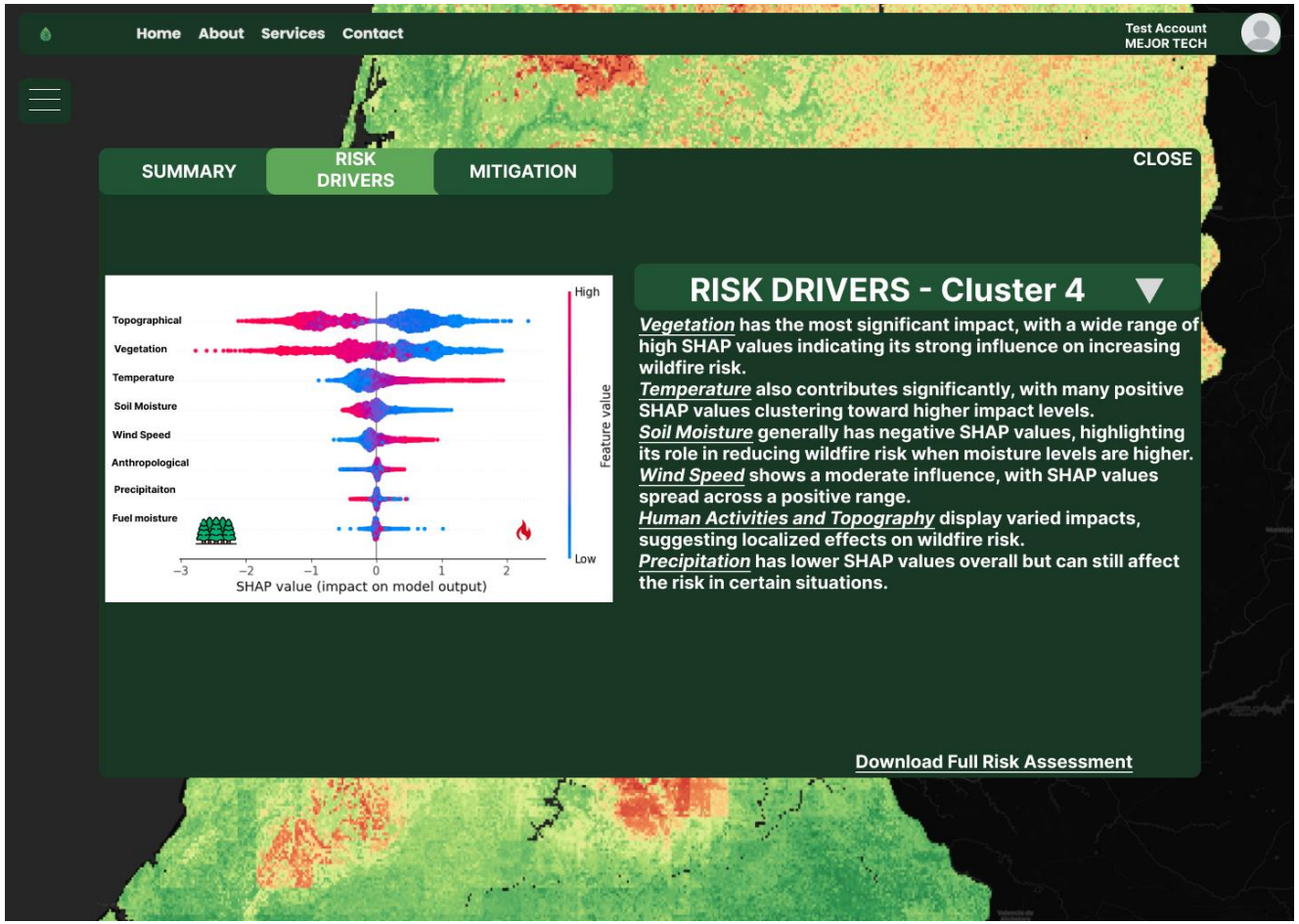
Where is the risk high?



Spatial data analysis

- Proactive Risk Mitigation
- Resource Allocation
- Resilience Planning
- Etc...

Why is the risk high?



Risk drivers

- What parameter drives the risk
- Transparency
- Enhance Understanding
- Improved Decision-Making

What makes LUCI so special?

- On season
  - Resource allocation
  - Immediate risk
  - Monitoring
- Off season:
  - Fuel management
  - Scenario planning
  - Asset protection

Source: National Geographic (Lovenko, 2022)

What makes LUCI so special?

- Globally available
- 10x10 meter resolution
- Personalised dashboard
- Custom integrations:
  - API
  - GIS integration

Source: National Geographic (Lovenko, 2022)

LUCI doesn’t decide the **what**

You do.

CHRIS

Wildfire Response Support

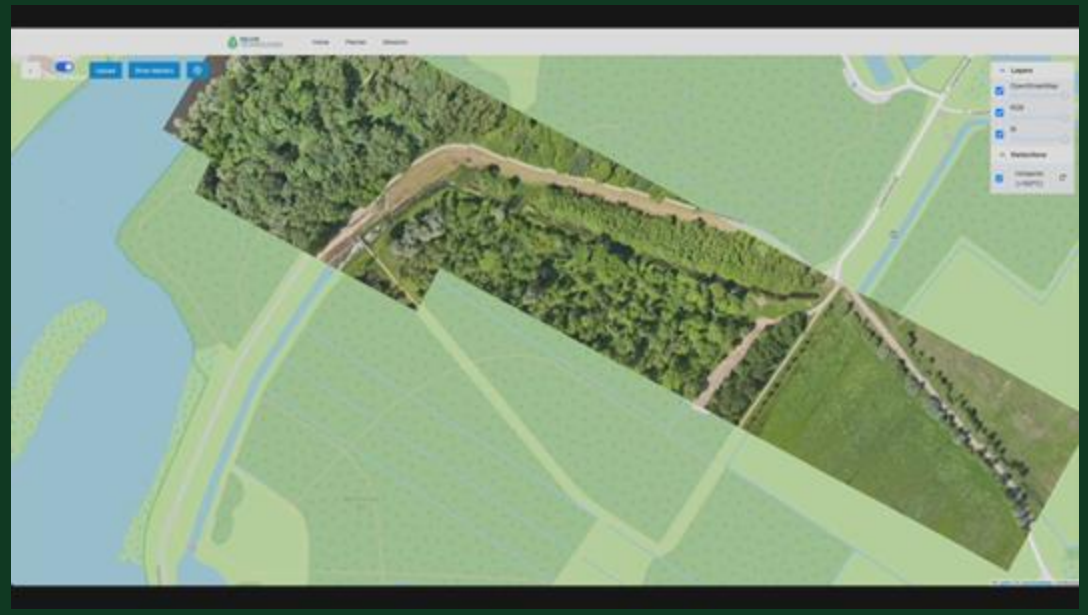
UAVs (**Drones**)

Advantages:

- Versatile
- Cheap
- Safer (than helicopters)

Disadvantages:

- Flight height restrictions
- Narrow field of view
- Information availability

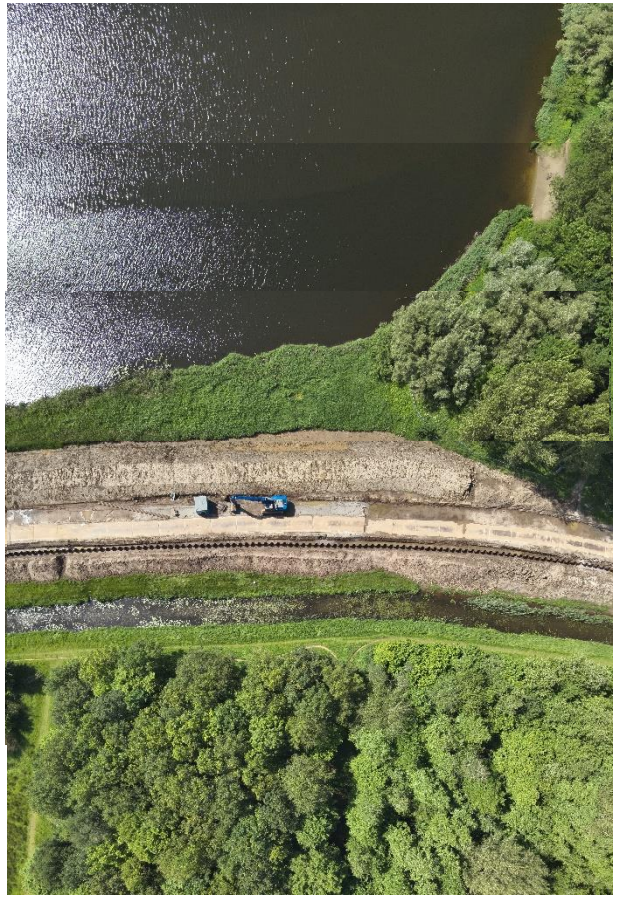


Climate **H**azard **R**eal-time **I**maging **S**ystem:
CHRIS

- Instant overviews
- Continuous situational awareness
- Distributable maps
- Historical record

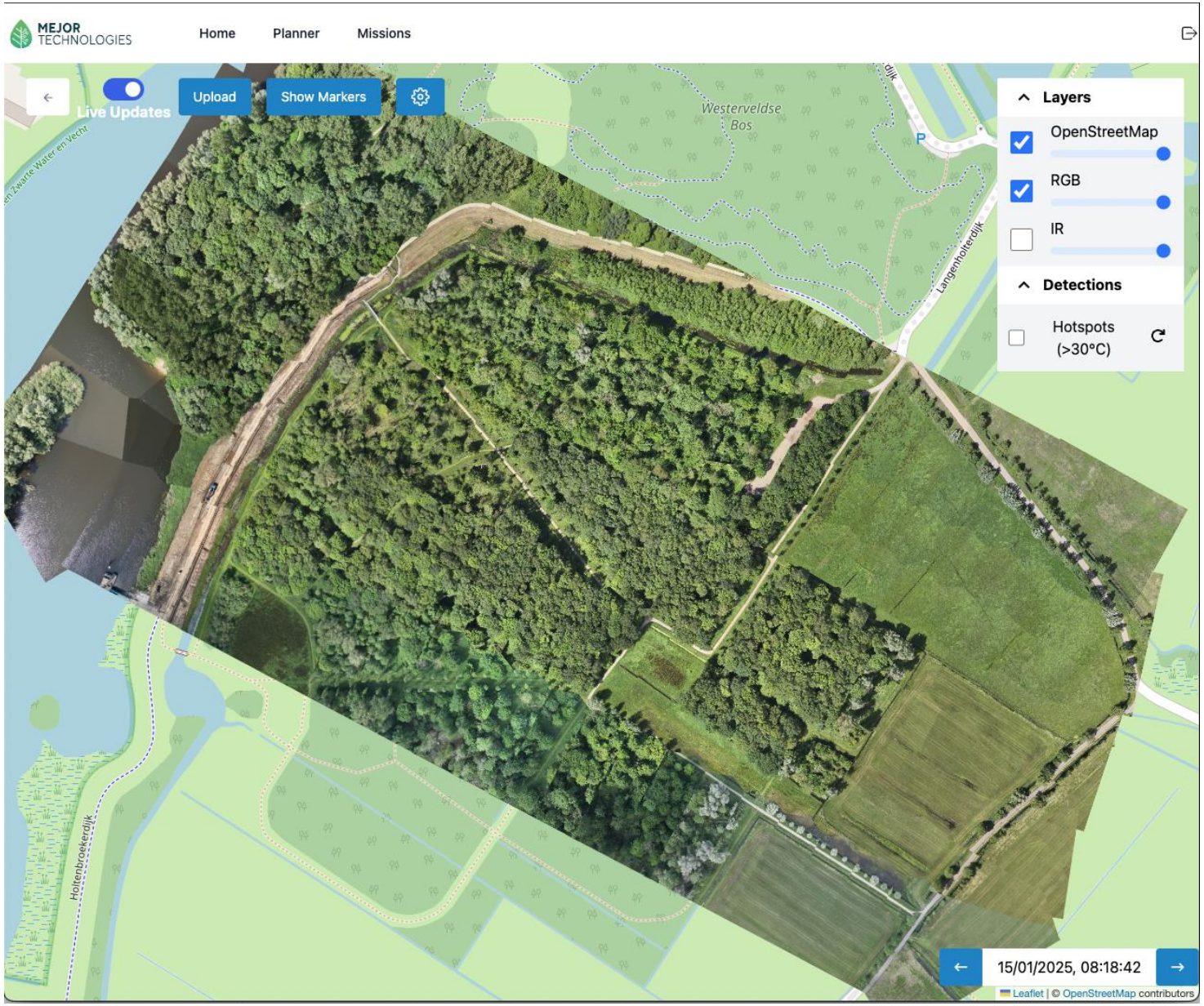
CHRIS WORKFLOW

1. **Upload photo**



CHRIS WORKFLOW

1. Upload photo
2. CHRIS processes photo to overview



CHRIS WORKFLOW

1. **Upload photo**
2. **CHRIS processes photo to overview**
3. **Serve overview**
   - Within seconds
   - Milimeter precision
   - Multi layer (IR, RGB, NIR)
   - Automated fire-line and hotspot detection

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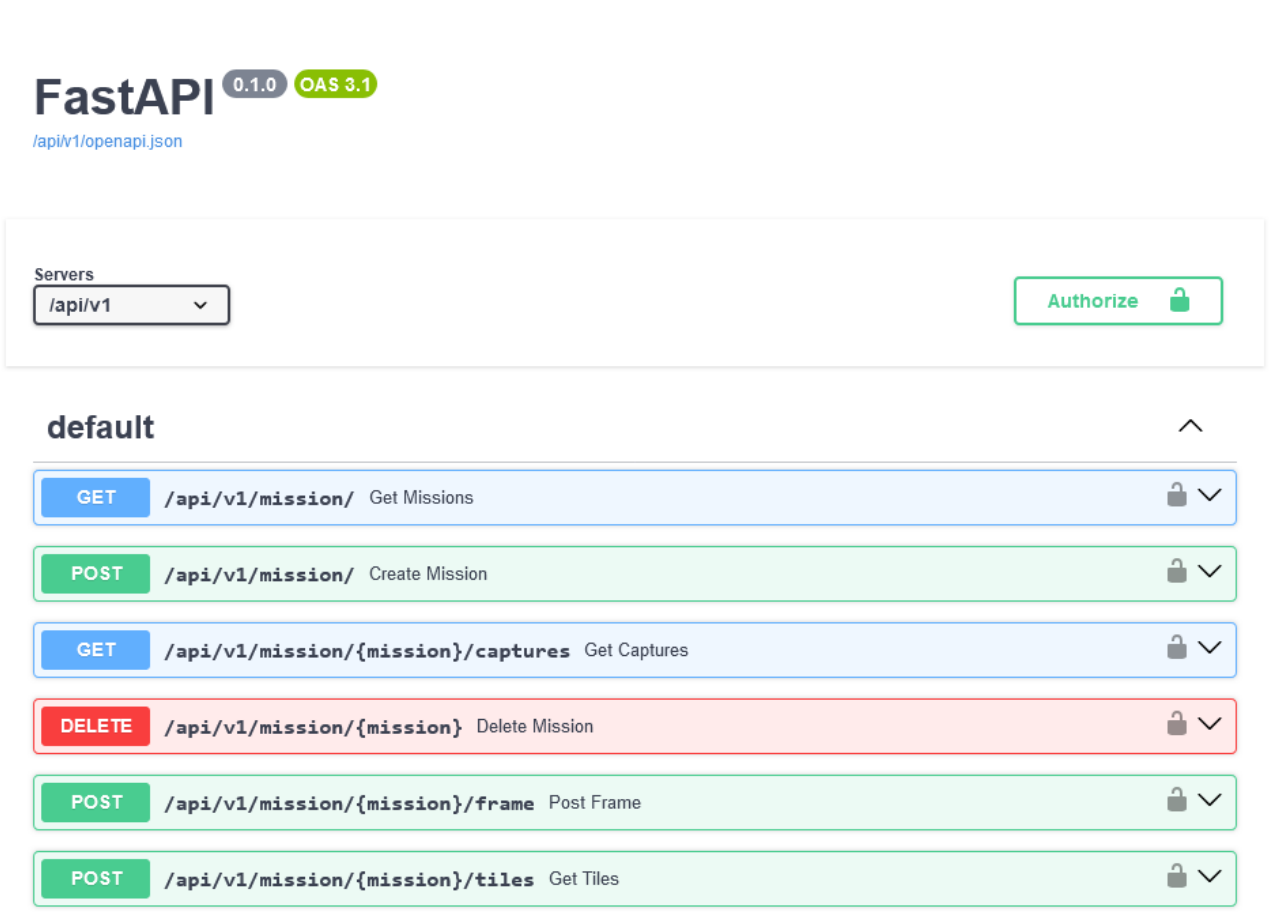
Custom integrations - API

- Cloud based
- Globally available
- Client-side development required



DJI Integration

- Existing hardware (drones)
- Local deployment – no internet required
- Same features
- Subscription + hardware (optional)

SkyHive

- Semi-automonous drone surveillance
- 4 drones continously in the air
- Trailer based
- Military specification

We are looking for partners and clients!

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Wildfire solutions