

FROM SATELLITE DATA TO DECISION SUPPORT: RESULTS FROM THE STORCITO WILDFIRE PREVENTION PLATFORM

*Development, Validation and First Operational Results of a
Cloud-Based Wildfire Risk Assessment Platform*



~100X
increase in local
spatial detail



501
valid pixels
(regional model)



~50,000
valid pixels
(local model)



Many detected fires
coincide with
elevated-risk areas



1. CHALLENGE/CONTEXT

Wildfires are rising across Europe due to heat, drought and land-use change, threatening ecosystems, infrastructure and rural communities.



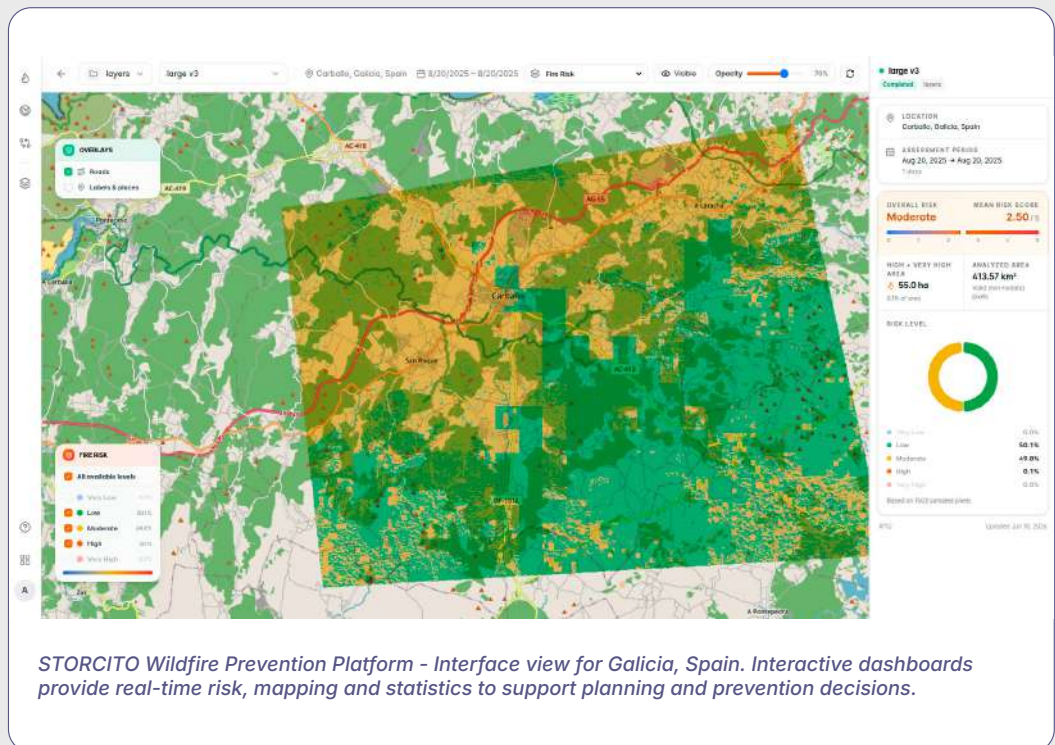
2. MAIN RESULT

STORCITO developed an operational interactive GIS-based wildfire prevention platform combining satellite observations, environmental information and automated geospatial analysis to support prevention-oriented decision-making.

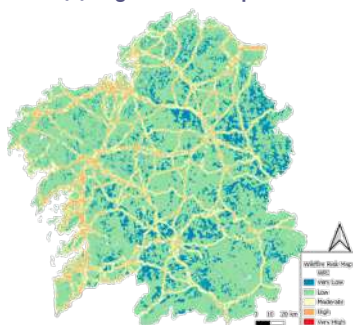


3. KEY INNOVATIONS

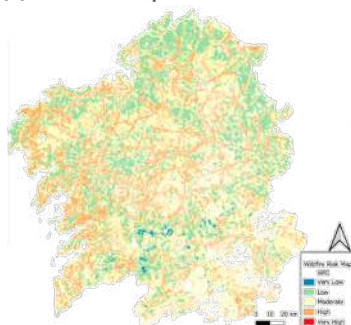
- Automated workflow integrating satellite, meteorological, topographic, infrastructure and land-use datasets
- Static and dynamic risk models
- Interactive dashboards & APIs
- Participatory design with stakeholders
- Multi-scale analysis & mapping



(a) Regional risk map - Galicia



(b) Local risk map - Detail view



Comparison of regional (a) and local (b) wildfire risk maps for Galicia illustrates the substantial increase in spatial detail and improved identification of fine-scale risk patterns



~100x
increase in local
spatial
detail



4. FIRST OPERATIONAL RESULTS

- Regional maps support planning across Galicia
- Local-scale analysis increases detail from 501 valid pixels to nearly 50,000
- Dynamic validation showed many fires aligned with elevated-risk areas



5. PRACTICAL RECOMMENDATIONS

- Update risk maps regularly
- Combine regional screening with local analysis
- Involve end-users in platform design and interpretation



6. END-USERS / RECIPIENTS

- Foresters and forest workers
- Public authorities
- Rural communities and local residents



7. KEYWORDS

- Wildfire prevention
- Landscape management
- Stakeholder engagement
- Digitalisation
- Rural communities



8. SPECIFIC OBJECTIVES

- Climate change actions
- Environmental care
- Innovation and knowledge exchange