

WHITE PAPER | JULY 2022

The ***REVOLUTION*** in Wildfires
Prevention Forecast
by Prometheus Space
Technologies

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Introduction

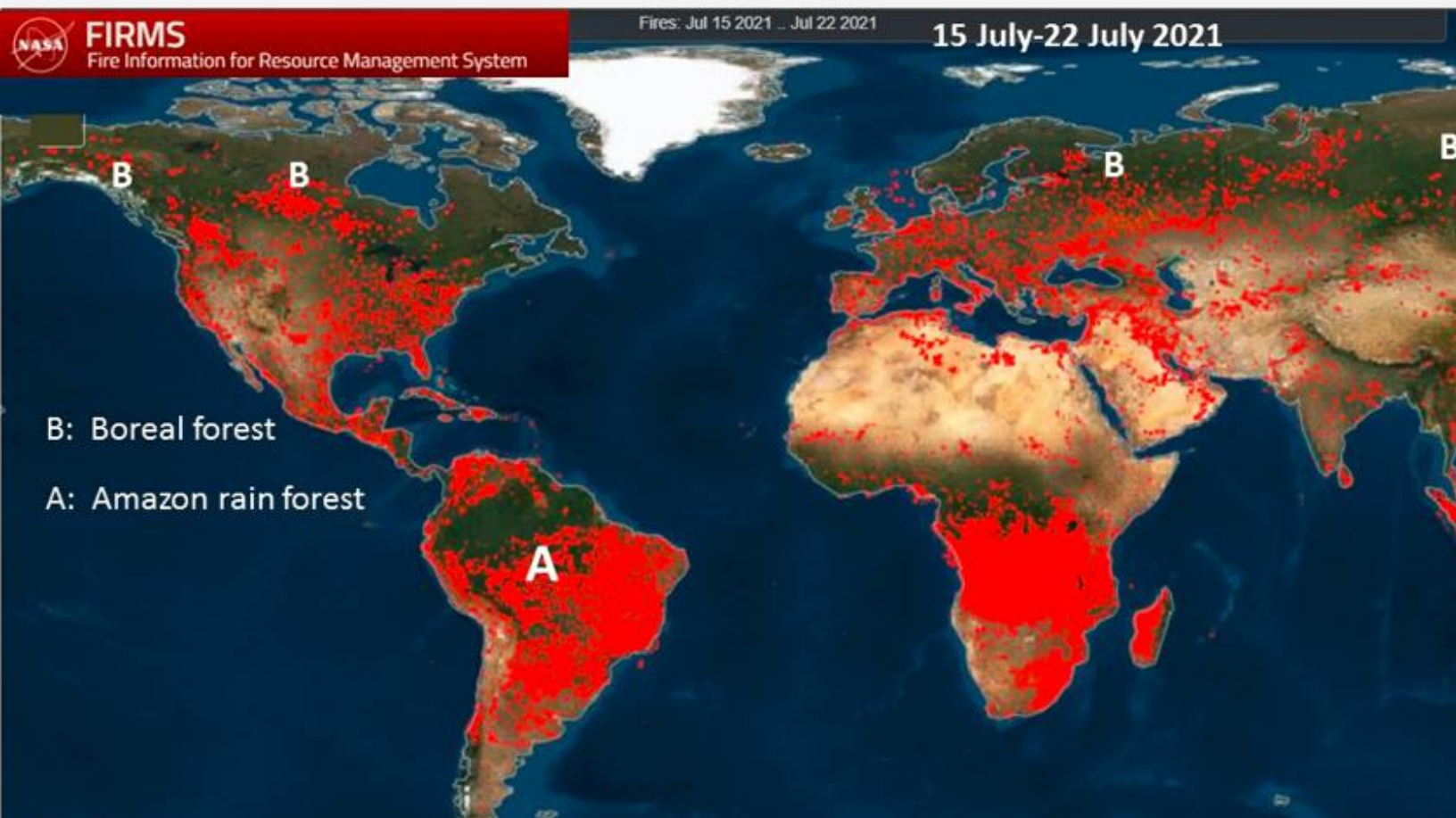
Hercules Rapid and Resilient Crisis Response Mission

is the most advanced Space Software platform.

The Prometheus team has developed a ground-breaking platform that is designed for real-time crisis management on a global scale. This technology combines unparalleled agility, effectiveness, and resilience with the ability to produce a high-resolution 10-day wildfire prevention forecast and isolate the precise location of the imminent threat via GPS.

Climate change is altering the pattern of annual wildfires. It is projected that there will be a 30% increase in extreme wildfires globally by 2050, with a 50% increase expected by the end of the century.

THE PROBLEM: Our Planet is at Risk!



STAT 2:

Forests Burned
+10,000,000 ha

People Affected
6.200.000

Wildfires
Having
Devastating
Environmental &
Human Tolls



HERCULES RAPID AND RESILIENT CRISIS RESPONSE MISSION

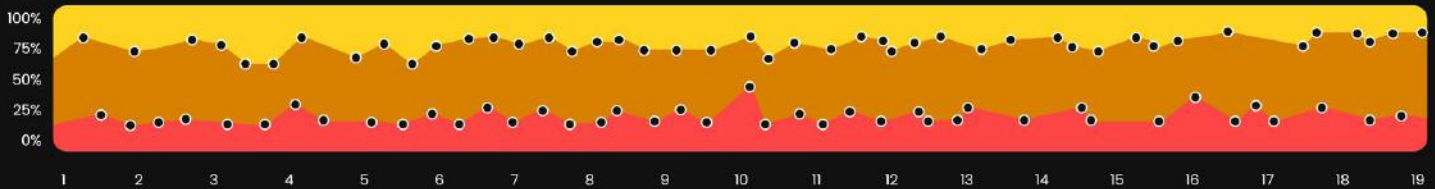
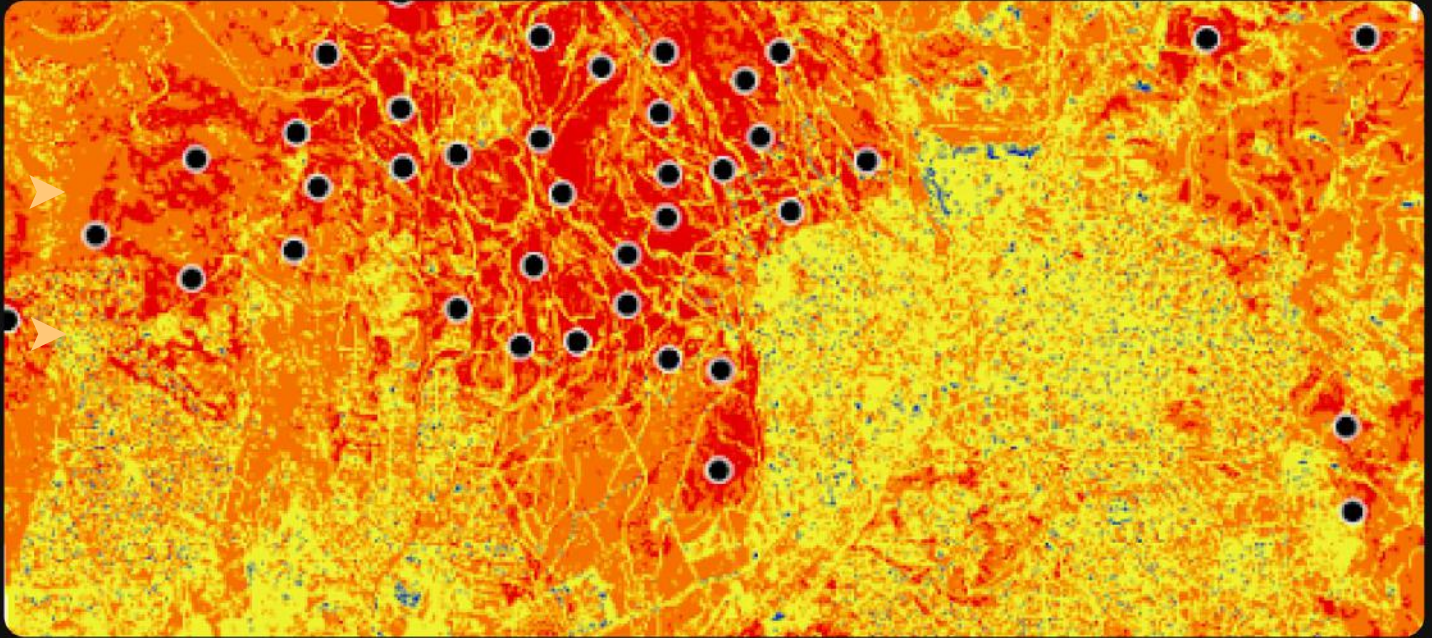
Main Menu

Fire Prediction

Preparation

Response

HARAD



"We must boost the power of prediction for everyone and build their capacity to act.

Early warnings and action save lives"

Antonio Guterres- UN Secretary-General



PROMETHEUS
SPACE TECHNOLOGIES

WHAT WE DO:

We are environmental pioneers that predict wildfire threats at a level never seen before to help save lives and ecosystems.

We provide

- 10-day wildfire prevention forecast
- 10m spatial resolution
- GIS coordinates of the threat.



We combine high-resolution satellite data with artificial Intelligence, deep learning, and advanced GIS, to provide groundbreaking solutions.

The prevention forecast model created by our great partners at Quiron Digital, and developed further by our GIS specialists, takes 12 variables into account to deliver the most accurate wildfires prevention forecast, in the highest Spatial Resolution.

We Revolutionize how people respond to crisis situations!

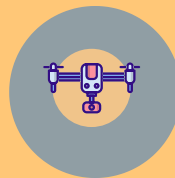
Project Updates



Soon, we will be able to cover all the aspects in Wildfires Risk Management Process in **Prevention, Preparation, and Response,**



The Mobile app will make it easy for first responders and nearby citizens to stay on top of all necessary information and access a continually updated wildfire threat map in real-time.

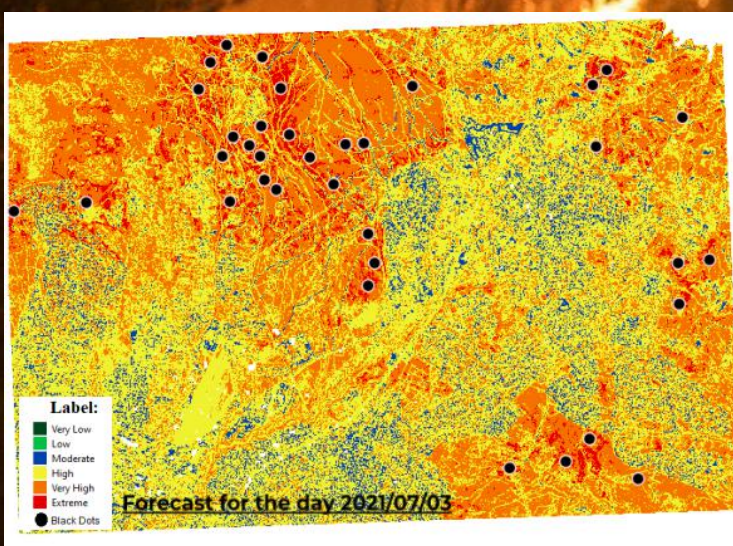


The upcoming HUMAN ARSON ACTIVITIES DETECTION (HARAD) project would be a global impressive pioneer in detecting human arson attempts.

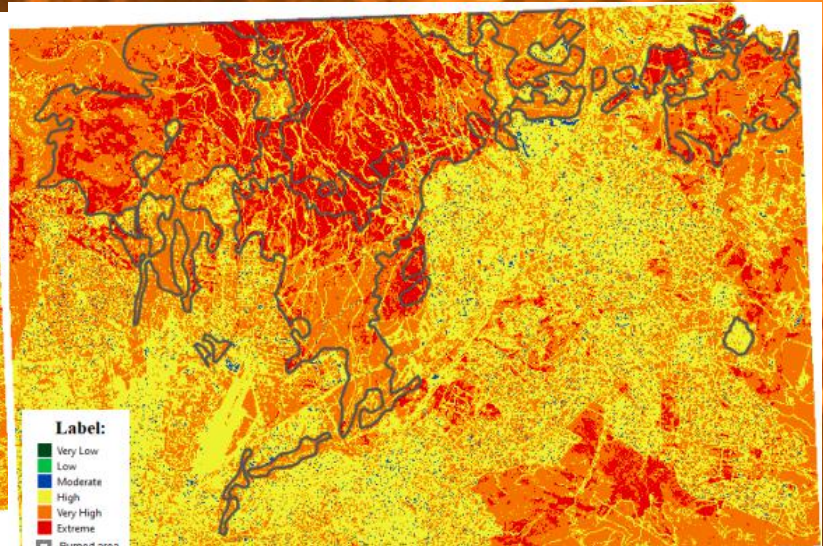


This technology will be applied in other projects as well including Oils Spills detection and flood threat prevention.

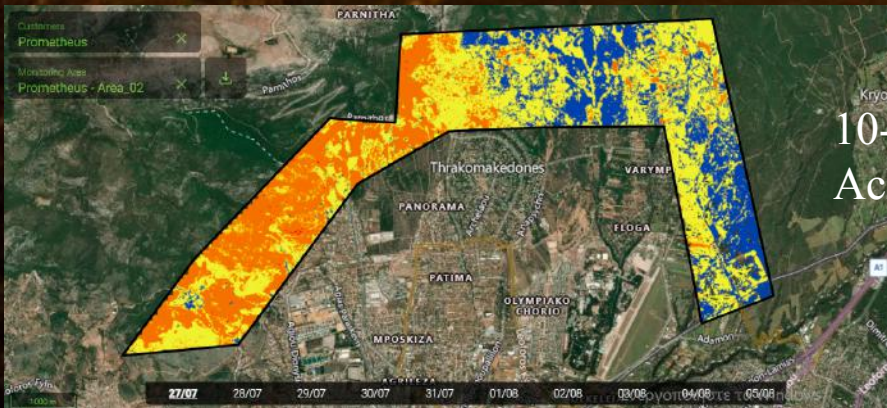
Parnitha mountain wildfires, Athens-Greece August 2021



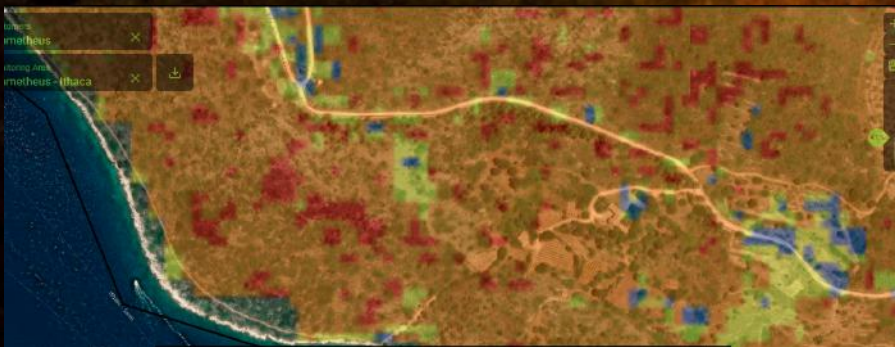
Prevention Forecast



Actual Event. Success Rate over 92%



10-day forecast for the municipality of Acharnes at 1.5 m Spatial Resolution



Island of Ithaca High-Resolution details of extreme events forecast



Who we are

Executive Summary

We are Prometheus Space Technologies, a Deep Tech Space Startup that designs and develops modern technology to prevent environmental disasters and help to create a safe world for all.

We were founded in 2018 in Athens, Greece by experienced aerospace engineers, and we expanded and registered in the UK in 2021.

We are pioneers in advanced research & development in space technology and we focus to create technology to reach the future, change the world, and benefit humankind.

We have challenged the status quo since day one, and we aim to be market leaders in space technology.



Our Milestones

- Best European Scale Up on New Space Economy ExpoForum 2021 (December 2021)
- Selected among the best European startups from SPACE UP Europe (December 2021)
- Selected among the 10 best startups in the UK from the Department of International Trade (September 2021)
- Selected among the best space startups from the Paris Space Week. (February 2022)
- Selected among the best European Startups from the X-Europe accelerator program (August 2021)
- Selected among the best European startups from the SUN post-acceleration program. (February 2022)



The Achievements

**Wildfire Prevention
Success Rate**

92%

Resolution Improvement

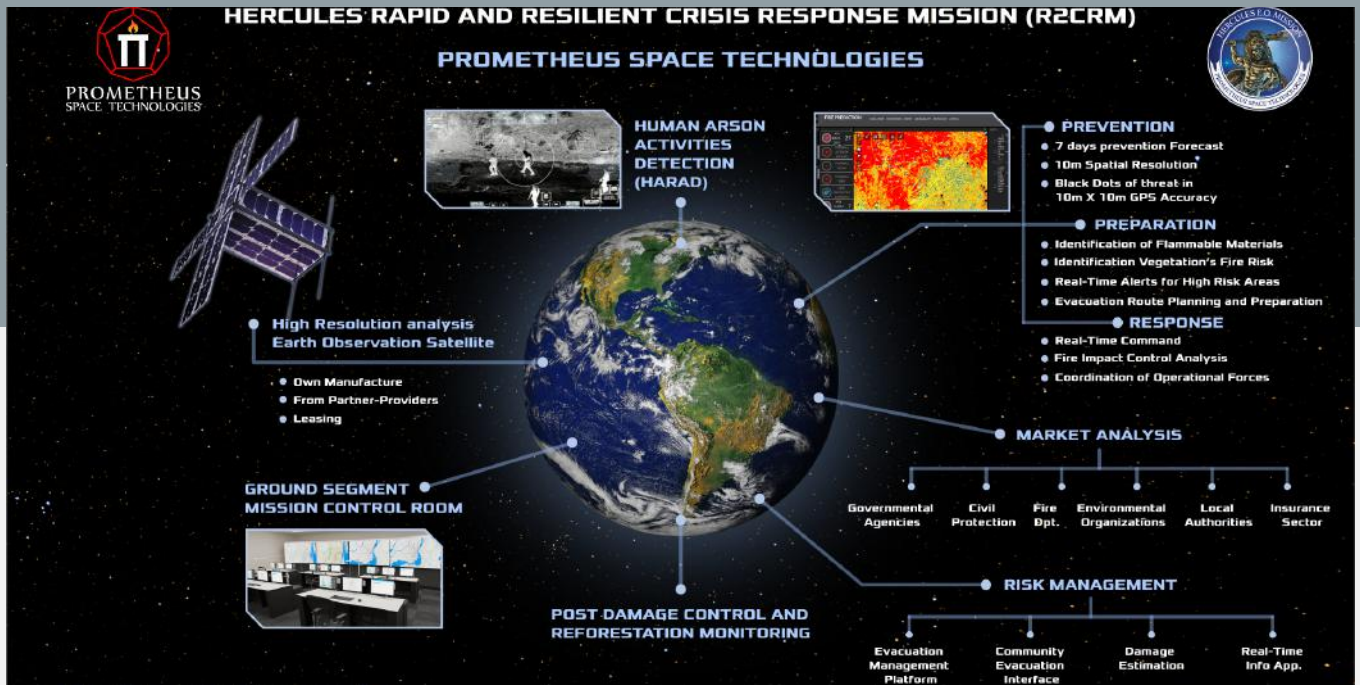
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**Prevention Area Coverage
Improvement**

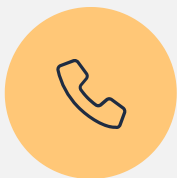
100x

This is a historic time for fire forecasting! We just introduced the world's most advanced wildfires prevention software platform. It has already changed wildfire preparedness across all industries. This new system can provide accurate 10-day forecasts, at a 10 m spatial resolution

The next steps include the creation of the Ground Segment Mission Control Room and a satellite launch that would increase our competitive edge. Several additional projects are also about to launch, including ones related to environmental disaster prevention, safety, and security.



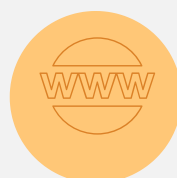
Would you be interested in learning more about our endeavors? If so, contact our team directly and follow Prometheus on social media.



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Our Launching Customers

- Municipality of Acharnes
- Municipality of Ithaca Island
- Municipality of Korydallos
- Ithaca Fire Brigade
- Civil Protection Department of Acharnes



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