



SHIELD

Sense. Assess. Secure.

N5HIELD™ - *Wildfire Detection System*

Powered by



The Wildfire Problem



25 Million

Acres Burned



20,000

Structure Burned



500 Million

Metric Tons of CO₂
Released



1 in 7

Americans Exposed to
Dangerous Air Quality
Due to Wildfires

In Just Last 3 Year in the United States!

Challenges in Early and Accurate Wildfire Detection



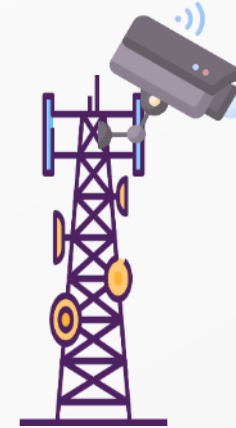
911 Call

Human-Based Reporting is Unpredictable and often too slow



Satellite

Not Effective for Early Detection – Too Slow and Low-Resolution



Camera

Requires expensive Infrastructure and maintenance, Can miss fires based on terrain and cloud cover.

N5SHIELD™

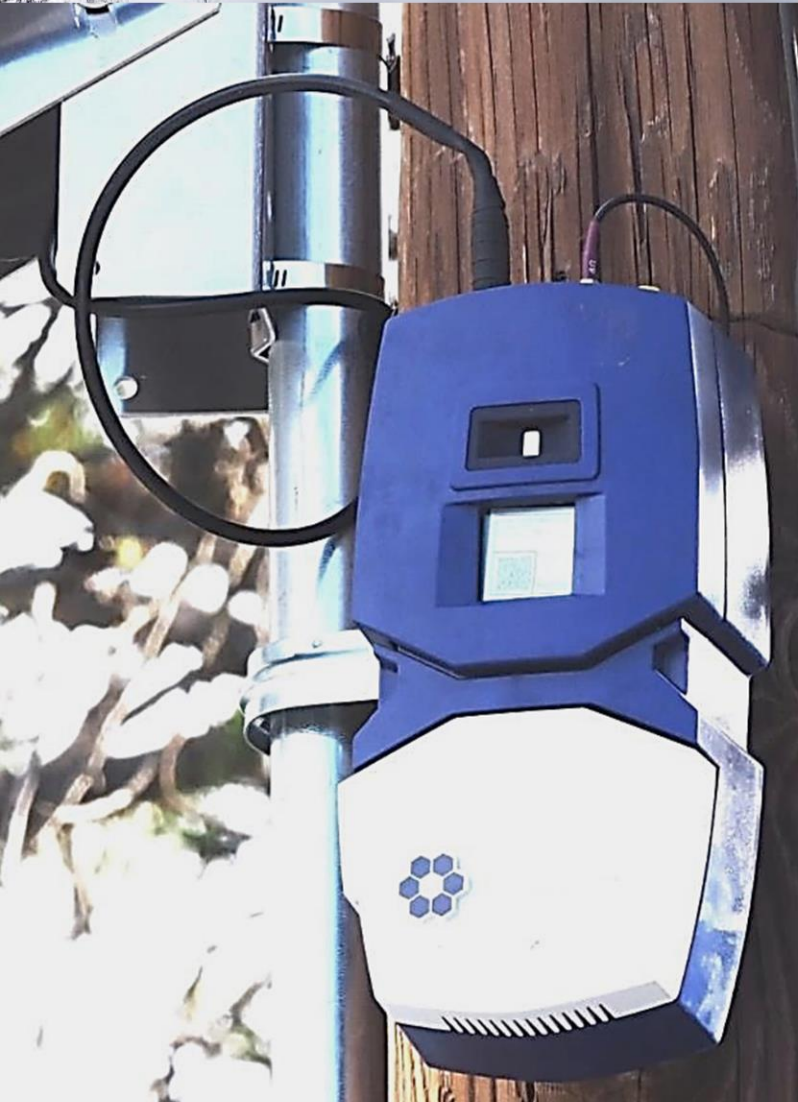
Integrated Platform for Detection and Tracking of Wildfires and Related Hazardous Environments



Features

- ▶ Multi- Sensor Fusion for Fire Signature Detection
- ▶ Cloud-Connected Platform for Seamless Integration of Different Sensors – Wildfire, Wind, Lightning, Soil Moisture
- ▶ Powerful Edge and Cloud AI
- ▶ Use Cases – Wildfire Detection, Air Quality, Protection of Infrastructure, Chemical Security – All Enabled Via AI
- ▶ Integrated Device, Data, and Decision Management Tool
- ▶ API Based Access for 3rd Party Integration and data sharing – Wind, AQ, Satellite, Camera

N5SHIELD™ – Fire Detection Nodes



Ruggedized, All Weather Construction

Survive wind, snow, rain, hail, etc.

Seamless Cloud-Connectivity

Data Uploads to Secure Cloud Every Minute

Software Managed Communication

LTE (Multicarrier/Worldwide)/Lora, Satellite

Solar Powered

Power-Efficient System Allows 24/7 Operation

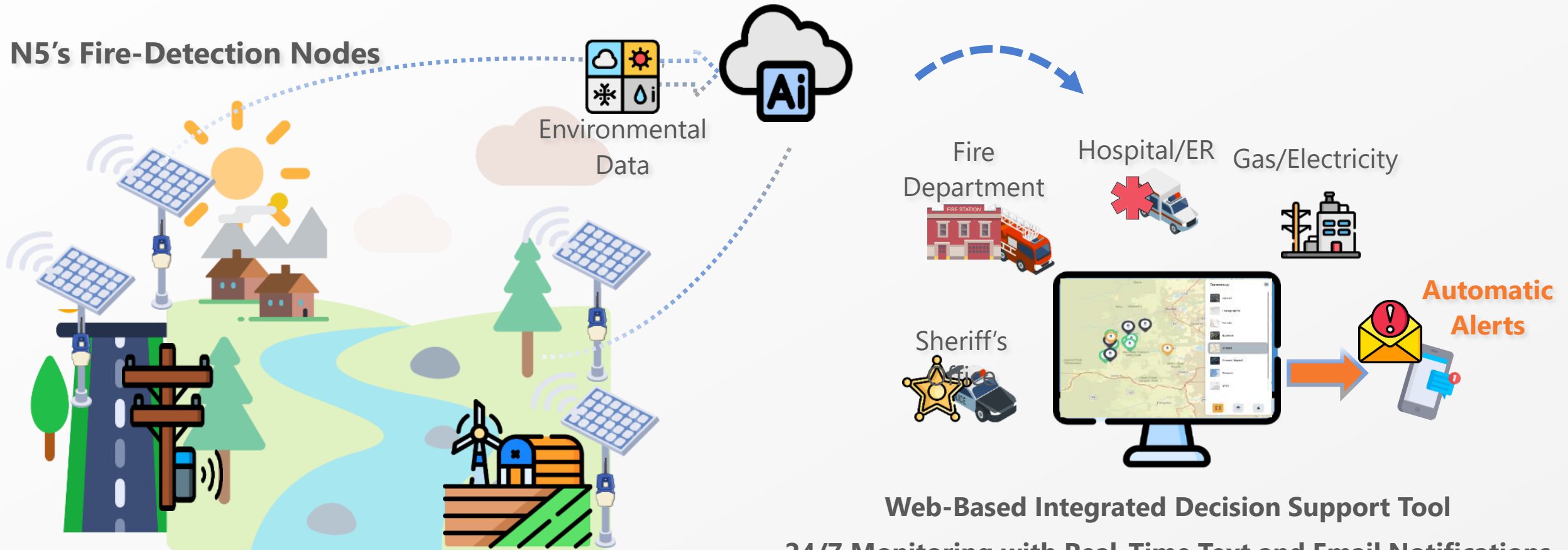
Multimodal Sensor Fusion Engine

1. Fire Gas and Chemical Measurement Module
2. Smoke and Particulate Measurement Module
3. IR Heat Mapping Sensor

N5SHIELD™

N5's Cloud Fire Detection Engine

N5's Fire-Detection Nodes



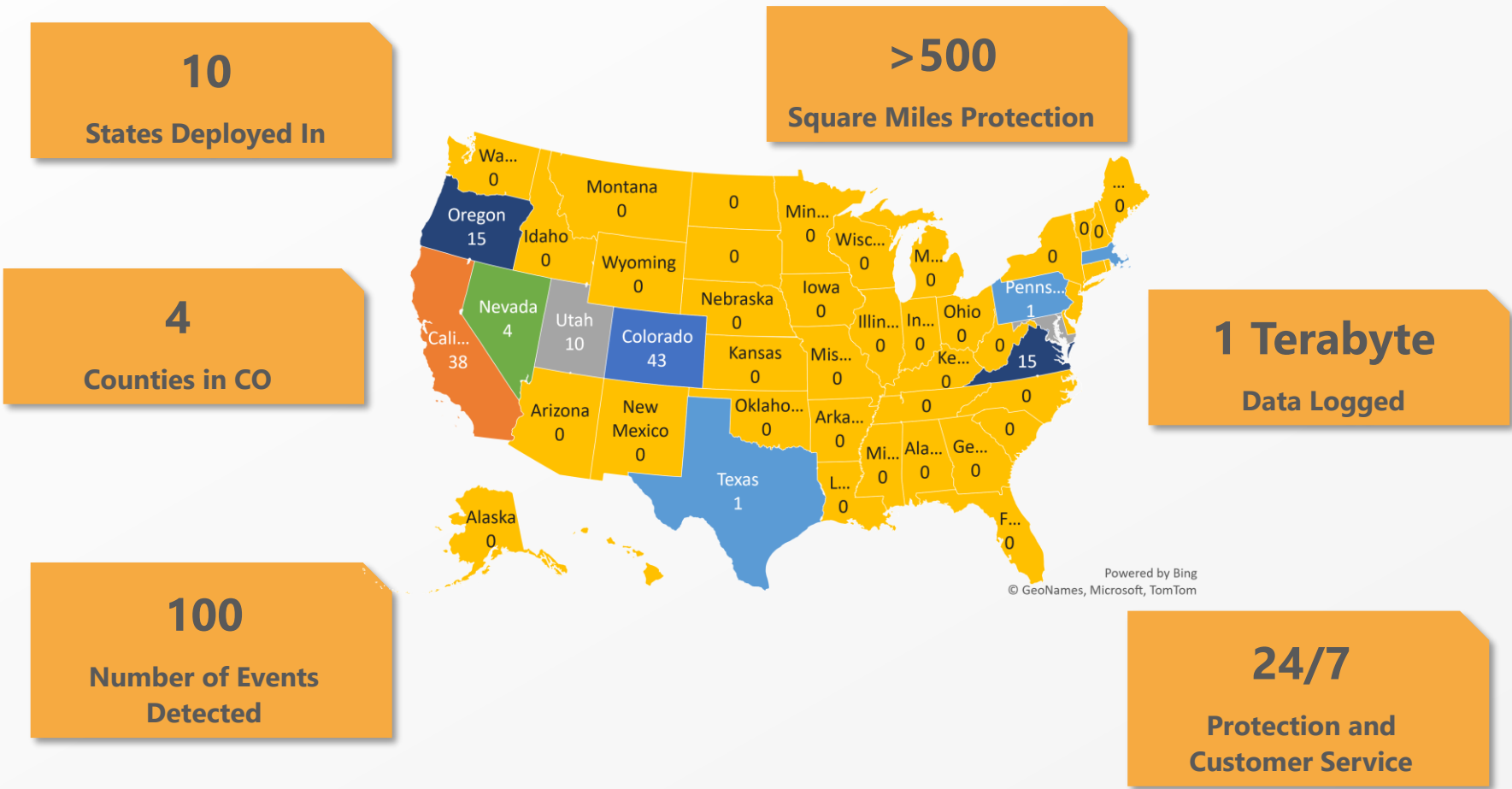
Web-Based Integrated Decision Support Tool

24/7 Monitoring with Real-Time Text and Email Notifications

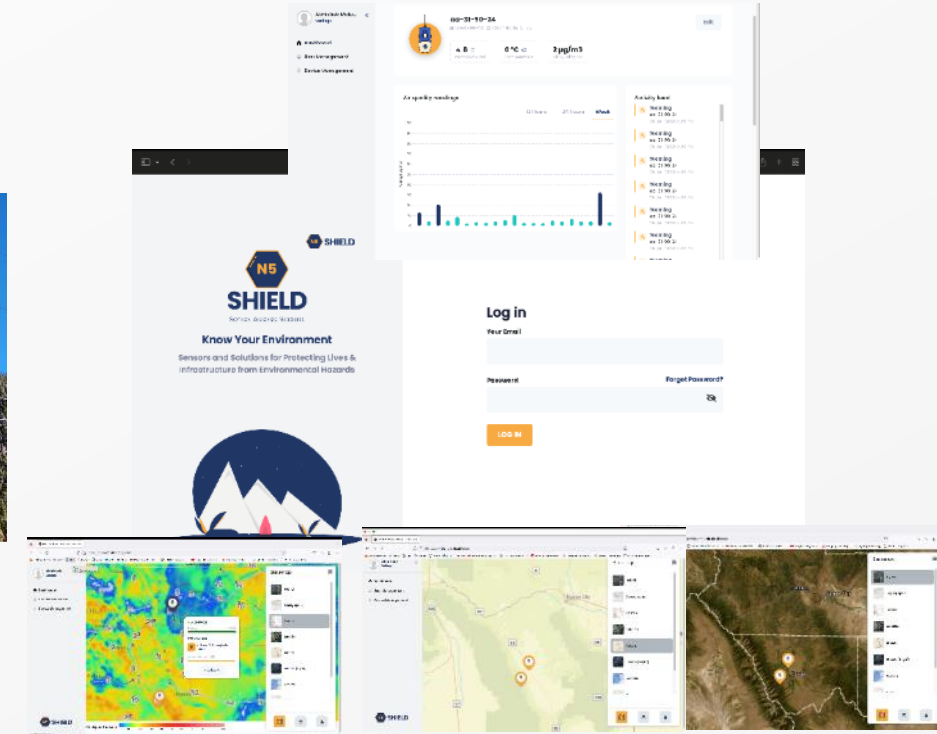
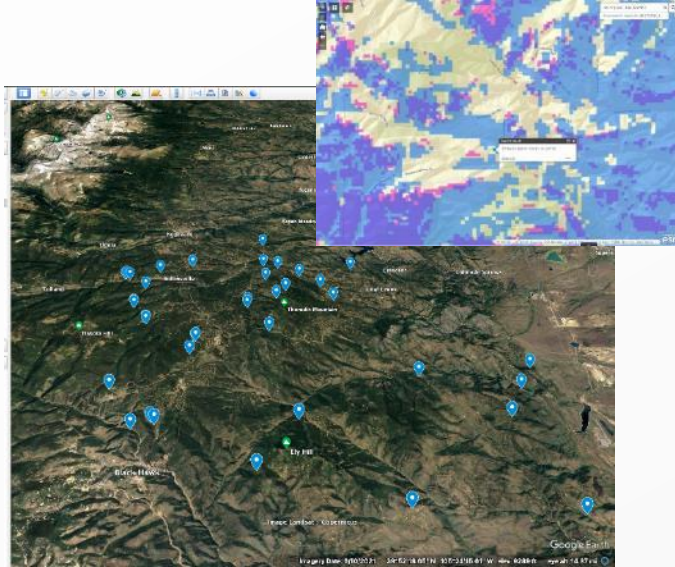
N5SHIELD™ – Success



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N5SHIELD™ – Community Wide Protection



Identify

N5 Works with Stakeholders to Identify Locations for Highest Protection

Install

Units are Solar-Powered and Can be Mounted On Any Existing Infrastructure or on A Pole. Box-to-Pole Solution!

Protect

Web-Based Tools for Monitoring and Analyzing and Automatic Text and Email Capability

Contact Us



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