PROBLEM

- On average 60,000 fire events burn millions of acres every year
- Annual costs of fire containment, suppression and damage are billions of dollars
- Early detection and tracking are critical in mitigation of impacts, including loss of life

SOLUTION

- ChemNode offers an affordable, reliable solution for rapid detection, localization and tracking of wildfires

9610 Medical Center Dr., Suite 200, Rockville, MD 20850 United States

ChemNode

Infrared Array Sensor (600 viewing angle)
Ultra low power E-Paper screen
USB-C Connectivity (for advanced configuration)
High Sensitivity Particle Monitor
Active Gas Sampling for faster response
Patented Multiple Gas Sensor Array Card

301-337-8314
www.n5sensors.com
info@n5sensors.com
<table>
<thead>
<tr>
<th>FEATURE</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>17W Solar Panel charger and 30,000 mAh battery</td>
<td>Operates up to 7 days without sunlight, recharges in as little as 8 hours</td>
</tr>
<tr>
<td>Low power, long range radio with proprietary secure protocol</td>
<td>Direct cellular coverage not needed</td>
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<tr>
<td>Multimodal sensor data fusion with Patented SPH (Semiconductor Photocatalytic Hybrid) Gas Sensor Array, Low cost IR camera, Particulate Matter Detector Proprietary detection &amp; fusion algorithms</td>
<td>Enables accurate and reliable detection of wildfires</td>
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<tr>
<td>Cloud-based Real-time Data Analytics Engine and Visualization Dashboard</td>
<td>Real-time alert generation with mapping capability with APIs for 3rd party system integration</td>
</tr>
<tr>
<td>Flexible SPH Sensor Array</td>
<td>Enables addition of new detection features, including air quality and other hazardous gases</td>
</tr>
</tbody>
</table>

**ChemNode Architecture – End to End Solution**

- Low-Power ISM Radio Architecture
- Multiple ChemNodes Connected to a Single Gateway
- N5 Gateway
- Cloud Backend with AI
- LTE/WiFi/Sat Backhaul
- N5’s Database with Realtime Analytics Engine
- N5’s Dashboard for Real-Time Maps and Alerts

**N5 Sensors**

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