Introducing Pano

Actionable Intelligence for Wildland Management

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The Age of the Fire Season is Gone... We Are Facing Fire Years

Ehe New York Eimes Record-Setting Colorado Fires Destroyed More Than 500 Homes

Unlike fires in mountain wilderness, which often burn over the course of weeks, the destruction on Thursday played out in minutes and hours.

Pano Stations Have Been Deployed Across the Western US and Abroad





Pano Rapid Detect Empowers Responders to Tackle a New Generation of Threats





Multiple data feeds (i.e. cameras, satellites, 911 calls, etc.) Pano 360 web platform with 360-degree visibility and Al smoke detection Pano 360 Mobile Site and SMS Alerts with live video & timely updates Pano enables an informed rapid response to knock down bushfires & maintain safety Pano creates an institutional memory enabling review of incidents, timelapses and data

Pano's Advanced Technology Helps Firefighters Prevent Catastrophic Wildfires

Combining hardware, artificial intelligence ("AI"), and web-based software in a single easy-to-use platform



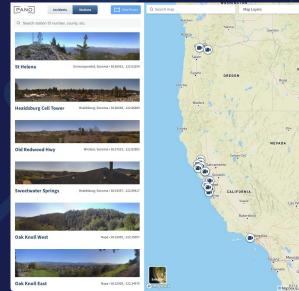
Cutting-Edge Hardware

provides advanced imagery via two rotating cameras, capturing an ultra-high-definition 360° panorama every minute



Al Detection Backed By Human Intelligence

Intelligence center monitors for the first indications of smoke 24/7, across the entirety of the geographic coverage area



Easy-to-use Interface

unifies advanced features developed with partner utilities including asset proximity, zoom-to-investigate, incident triangulation, and alerts in a single platform

Satellite Detection for Nighttime Incidents

Data Source:

- GOES (US)
- Himawari (Australia)

NOAA FDC Detection (In Production):

 Ingested alerts from the NOAA Fire Detection and characterization algorithm are confirmed by Pano Stations

Thermal Hotspot Detection (In Testing):

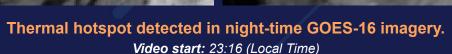
 Computer Vision based method for detection of thermal hotspot on GOES 16 & Himawari.

Deep Learning Detection (In Development):

 Deep learning based models for fire detection using satellite data

July 24, 2022

July 2, 2022



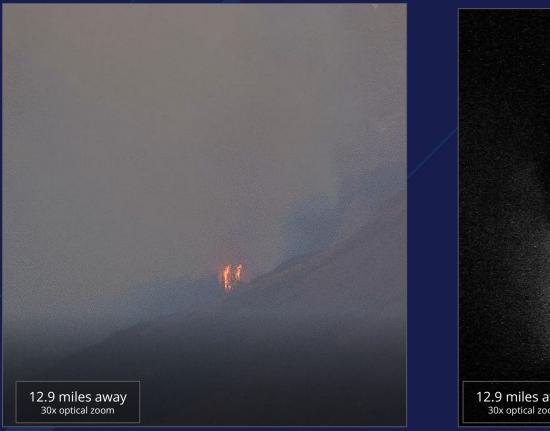




PANO

Industry Leading Optical Zoom & Image Quality

With 30x optical zoom Pano Stations can provide real-time visibility into incidents from miles away - both in daylight and nighttime conditions - images from the Shedhorn Mountain Fire shown below





Caribou Targhee USFS Prescribed Fire-2022 View from Relay Ridge Station Caribou Targhee USFS Prescribed Fire-2023 View from enabled Pano optical zoom feature

Aspen Video

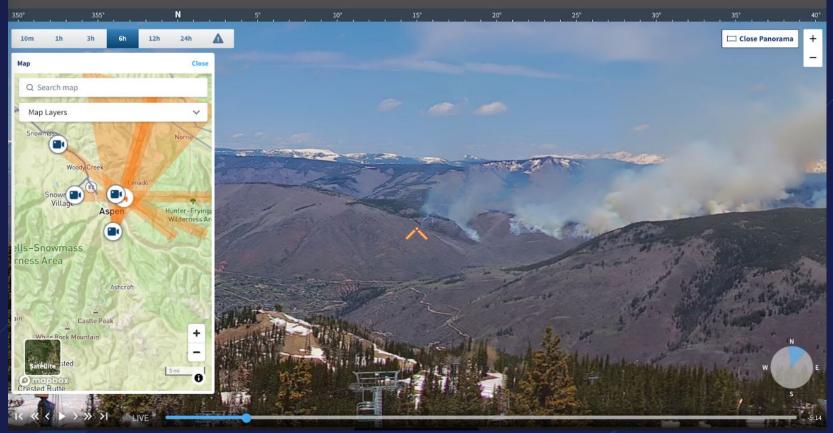




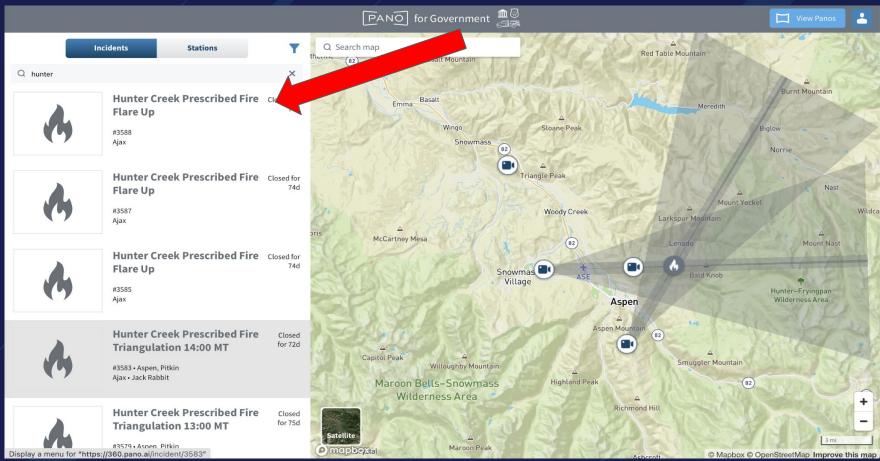
Pano for Prescribed Burning

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Pano Al Alerts are Key for Managing RX Burns & Containing Flare Ups



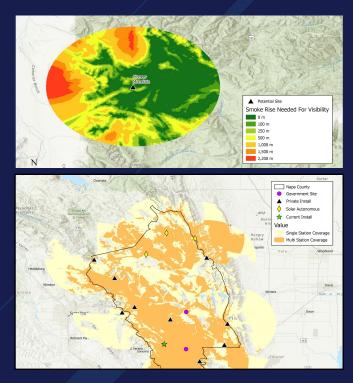
Complete Solution for Lifespan of the Product



Topographic & Tower Analysis

Deployment

Management

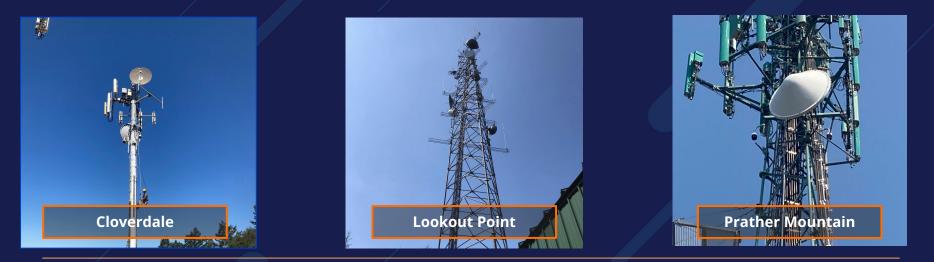






Pano has Deployed Various Station Configurations with Other Partners





Flexible Site Configurations



Government Comms Towers



Cell Phone Towers



Private Buildings & Wineries



Other Towers (i.e. ISP towers)



Water Tanks



Empty Hilltops



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Thank you.

Questions can be directed to:

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