

# **LCS Wildfire Matters Review Committee - Aug 12, 2021**

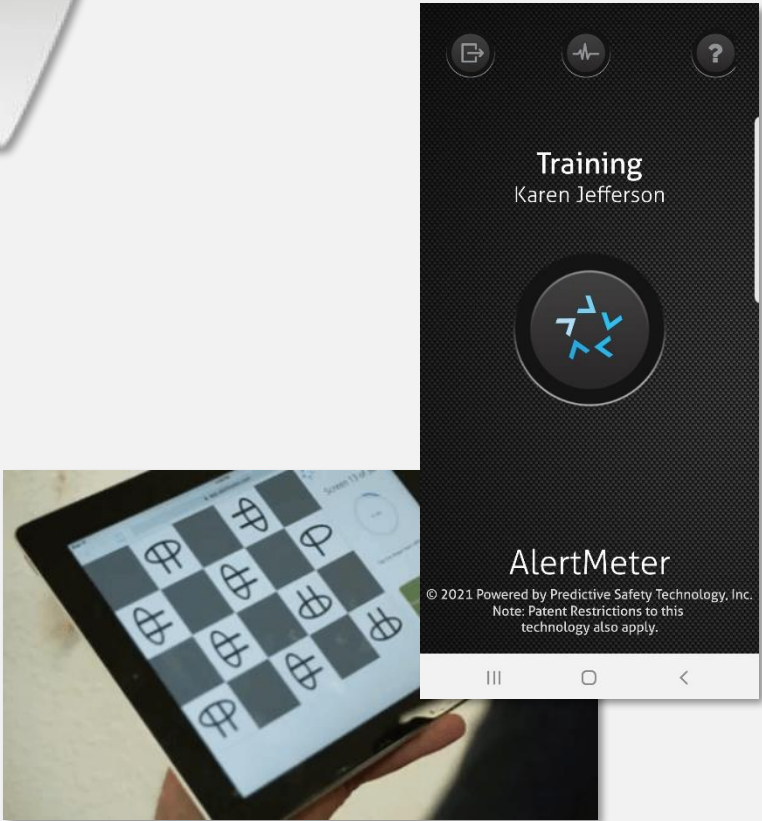
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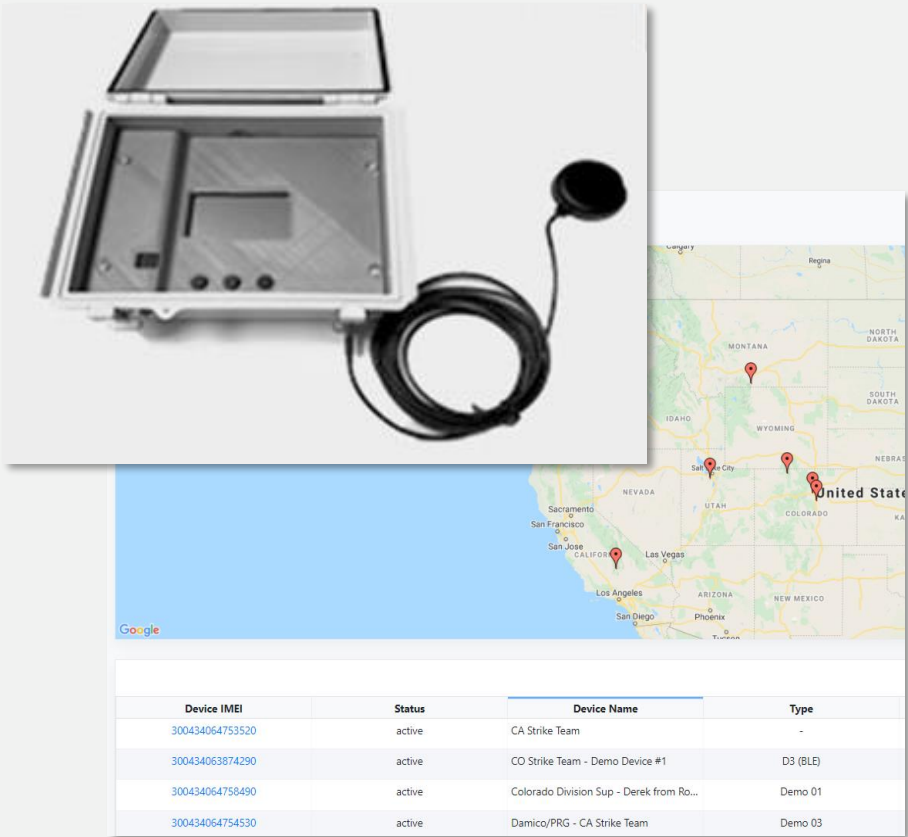
# Multiple solutions to improve wildfire season



SmokeD



Predictive Safety



RoGO

# SmokeD - Small fires are easier to extinguish



**Sees 85° for 10 miles 24/7/365**

**Learns environment**

**-AI, ML, IR**

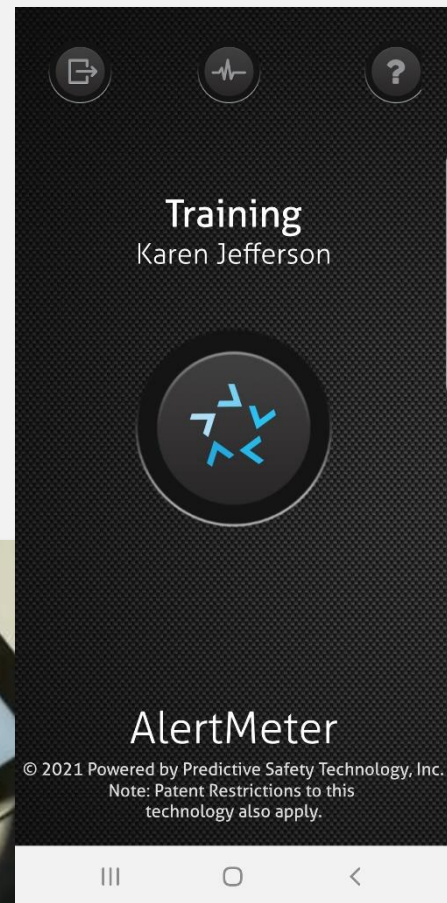
**Detects fires within 10 mins of ignition**

**Notifies via app or email**

**-Public or private**

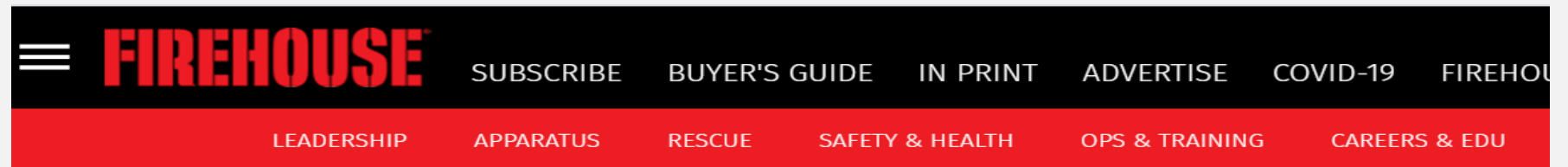
**Sends fewer false alarms**

# Predictive Safety - Fatigue affects firefighters



**Physical and mental fatigue ‘compounding’ for overworked and underpaid wildland firefighters in Washington** Sun., Aug. 8, 2021 Spokesman.com

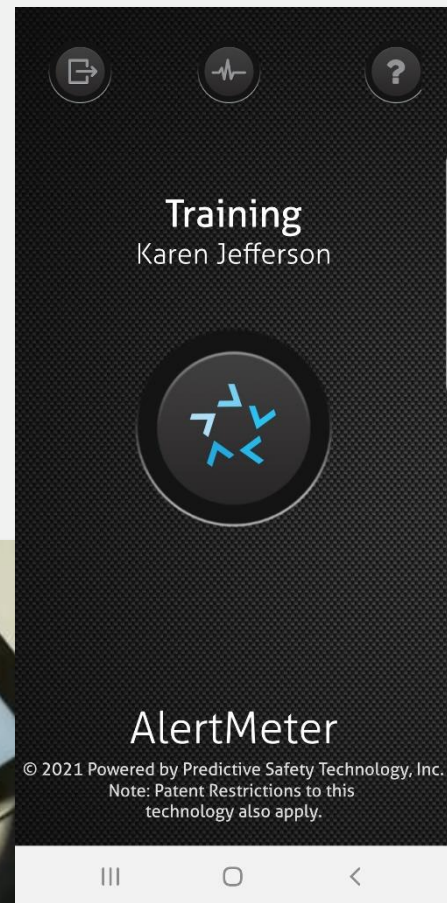
**Oregon firefighting resources are already stretched thin 'way ahead of season'** by Genevieve Reaume | Thursday, July 15th 2021 KPIC.com



There is significant risk of exposure to disease, physical exhaustion, and mental/emotional burnout across the board.



# Predictive Safety - Quick facts



**60 second assessment**

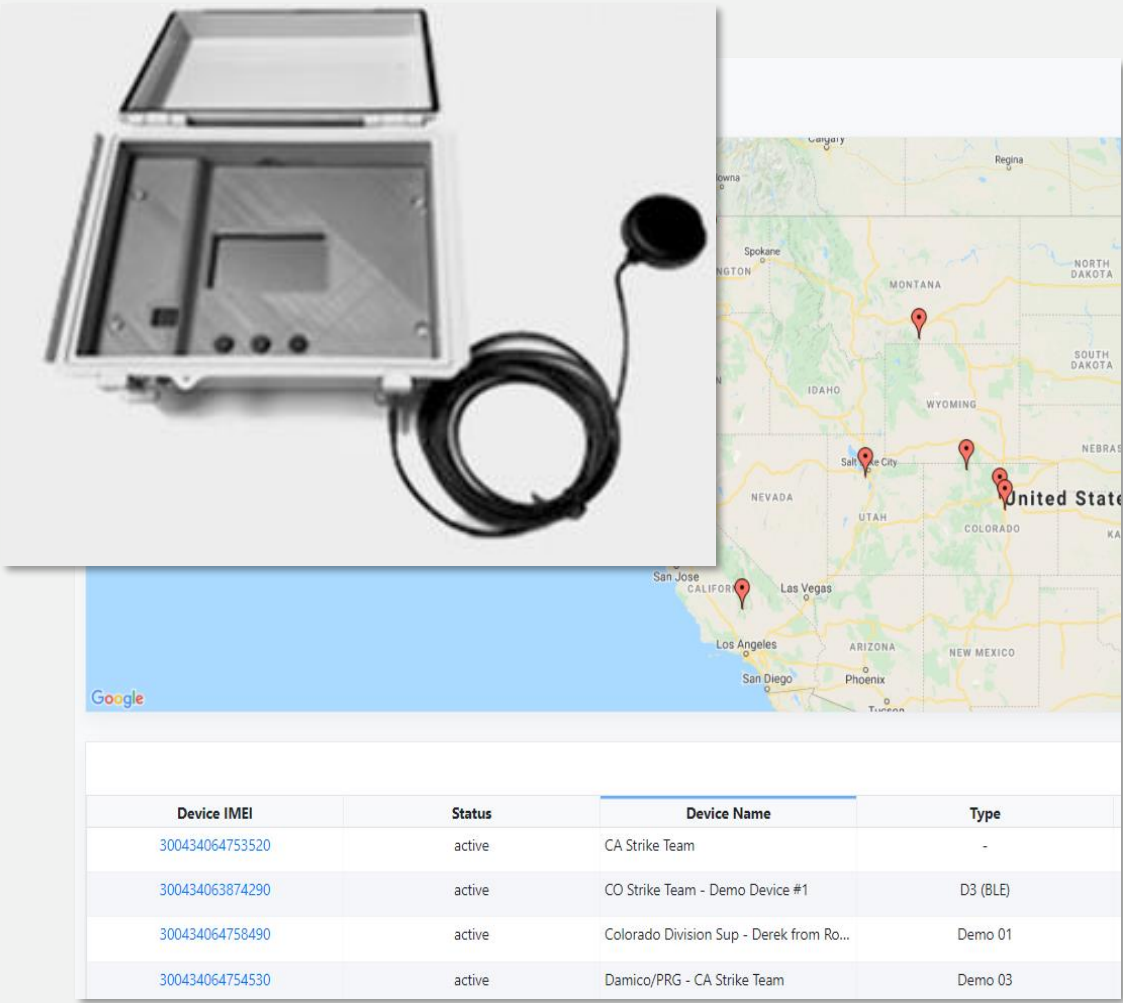
**Sensitive to chemical, physical, & emotional impairment**

**Predicts when fatigue related incidents will occur & provides countermeasures**

**Reduces recordable incidents (-50%) & drug testing costs (-90%)**

**Improves productivity (+10%) & employee retention (+34%)**

# RoGO - Tragedy leads to innovation



**19 Granite Mountain Hotshots died in Yarnell Hill Fire in Arizona (2013)**

**Incident command (IC) didn't know the team had moved out of the black**

**IC didn't know weather conditions at team's location**

**IC couldn't reach them on radio**

# How could this tragedy happen?



Paper Maps



Compasses



2-Way Radios

**NO CELLULAR COVERAGE >90% OF THE TIME!**

# FACTS

First-responders

Assets

Communications

Tracking

System

- Communications in austere areas
- Allows situational awareness & predictive analysis intelligence
  - Know where danger is and where to go for safety

RoGO  
connects  
cellular-denied areas





# THE FACTS SOLUTION



ROGO DROPBLOCK



IRIDIUM GATEWAY



INTERNET/  
CLOUD



Can work with other  
SAAS-based platforms

## RoGO's Value Add:

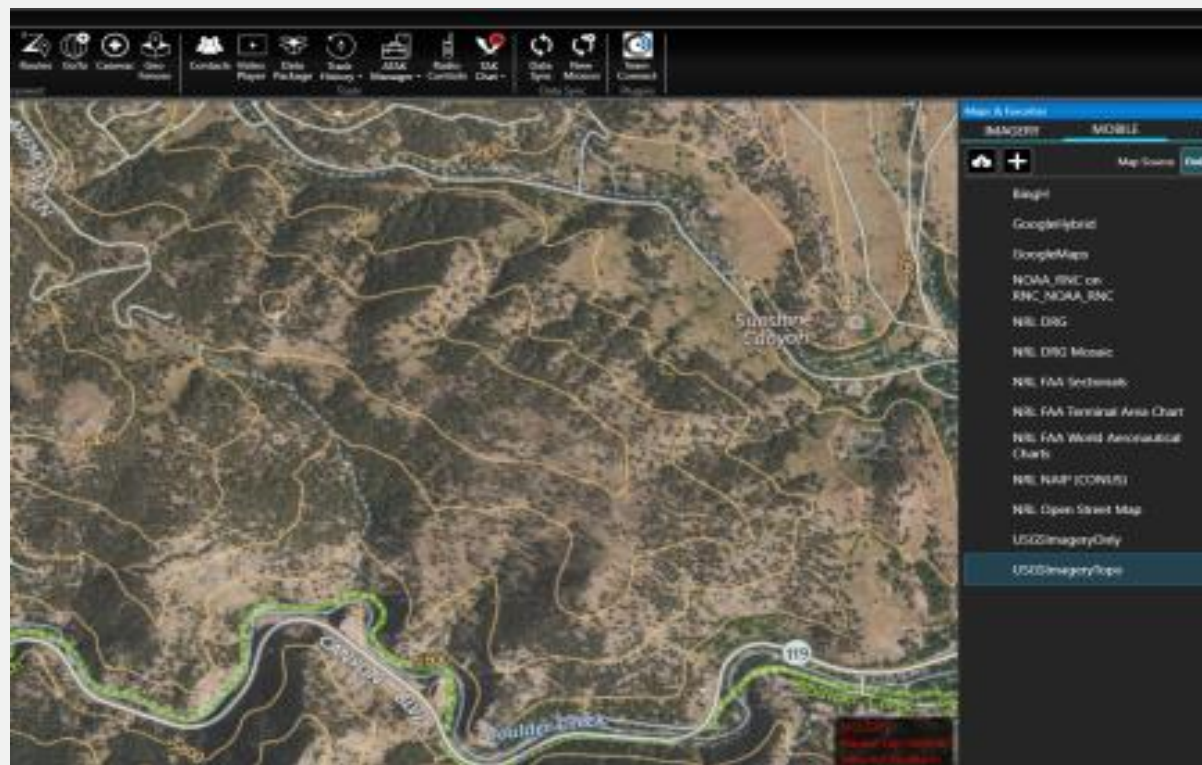
- RoGO's custom "parsing software"
- RoGO's data format sends satellite data quickly
- Communications & situational awareness anywhere
- Predictive data analytics
- High-bandwidth 176Kbps

RoGO has legislative support: the John Dingell act of 2019 (DART)



# SATELLITE-ENABLES tablets or smartphones for use anywhere

Enables ATAK, DAART, SARtopo, or any other IP-based IM platform



## FEATURES & FUNCTIONS

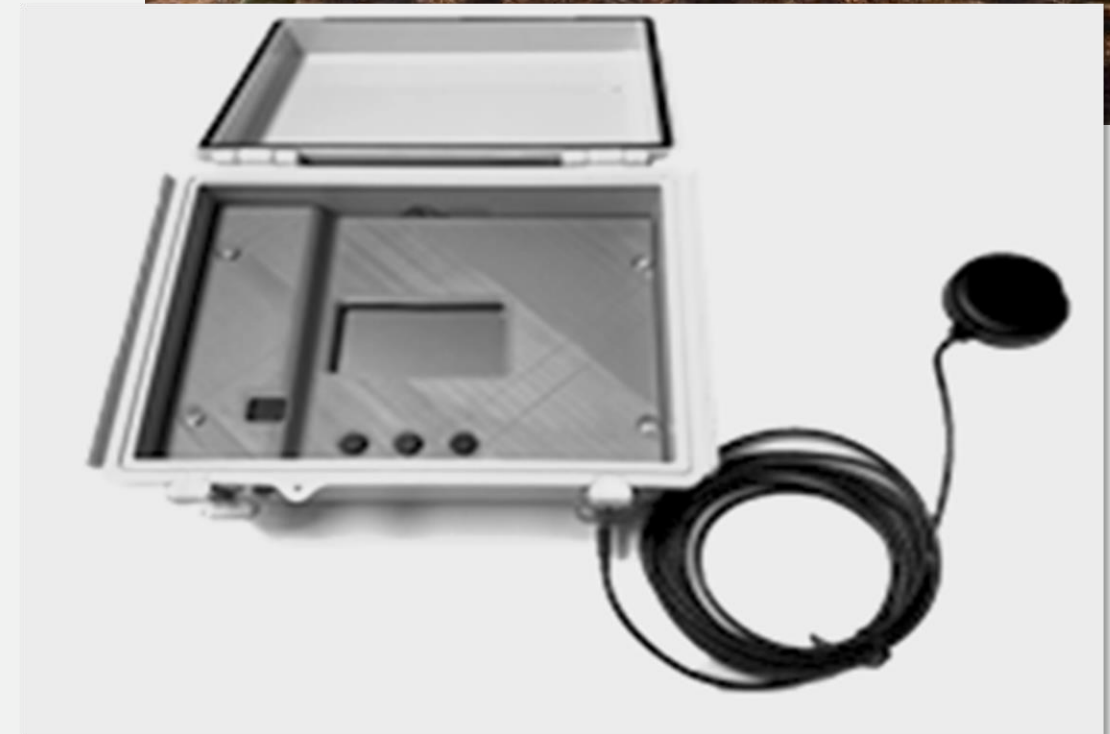
- Instant deployment
- GPS tracking
- Current & predicted weather
- Predictive analysis engine
- Point-to-point messaging

# ROGO DROPBLOCK

## FEATURES & FUNCTIONS

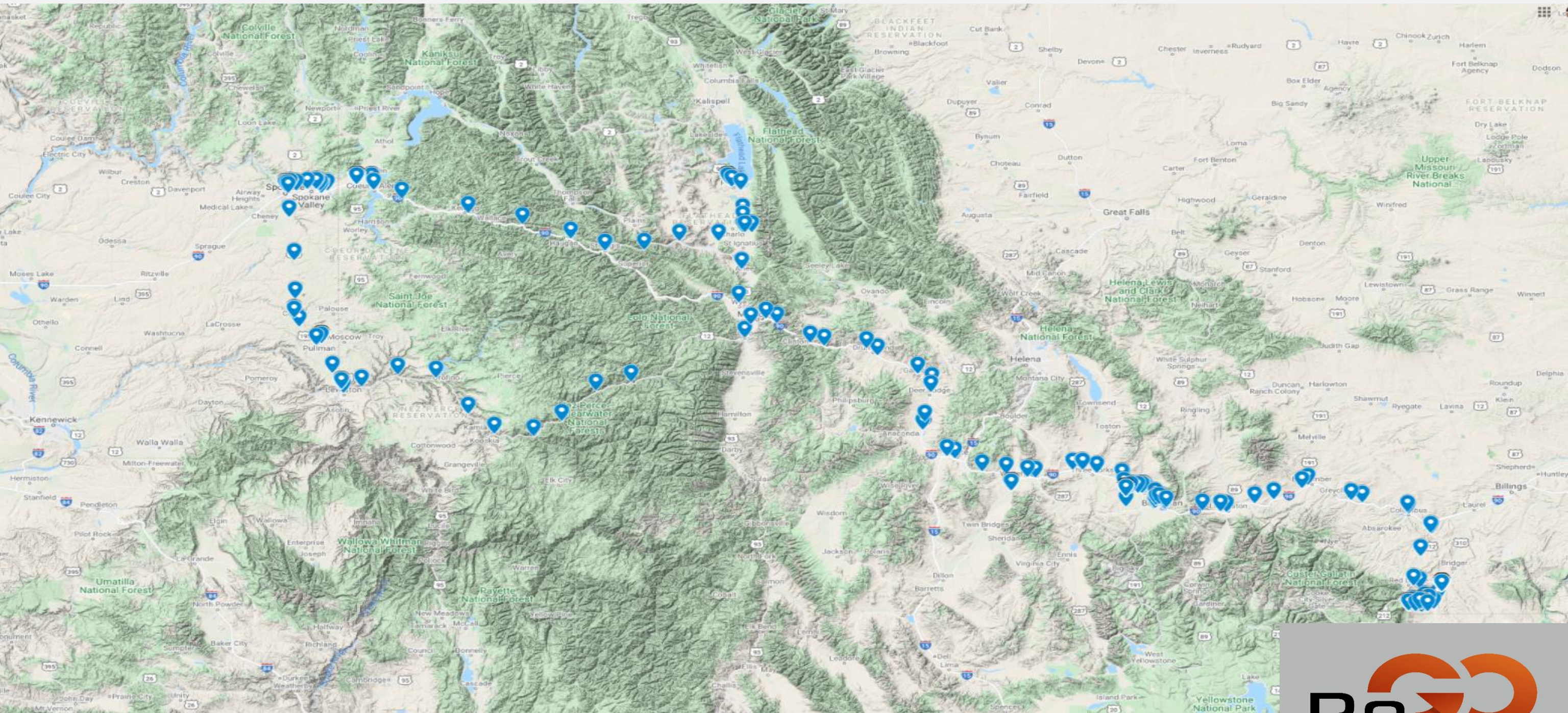
Reports data to anywhere, from anywhere

- Tracks equipment GPS location
- Send sensor data to/from anywhere
- DropBlocks send local weather:
  - Temperature
  - Relative humidity
  - Barometric pressure
- Device powered from USB, battery, solar, or 120V wall power





# John Dingell Act Compliance - Resource tracking example





# INDUSTRY PARTNERS



# IN SUMMARY:

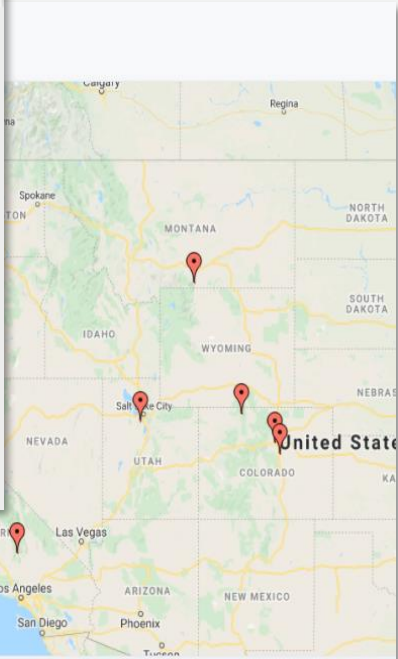

RoGO's hardware, software, and partnerships provide a unique solution that nobody else can match.

RoGO's devices help extinguish fires faster & save lives.

This solution is unavailable from anyone else.



# RoGO - Applications



Device IMEI	Status	Device Name	Type
<a href="#">300434064753520</a>	active	CA Strike Team	-
<a href="#">300434063874290</a>	active	CO Strike Team - Demo Device #1	D3 (BLE)
<a href="#">300434064758490</a>	active	Colorado Division Sup - Derek from Ro...	Demo 01
<a href="#">300434064754530</a>	active	Damico/PRG - CA Strike Team	Demo 03

Monitoring of local fire conditions

Wildland firefighting

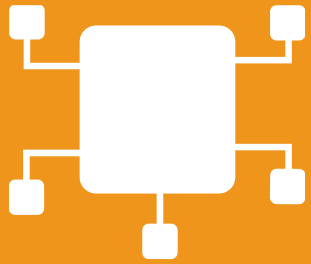
Search and rescue

Utilities



# Fighting wildland fires with intelligence

## Milestones



FACTS



Two Utility Patents



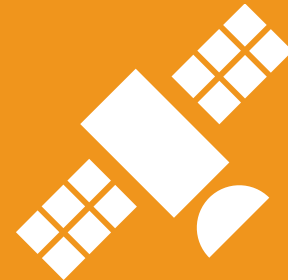
Devices Launched &  
Customer Validation



AWS Partnership



Legislative Support



Satellite Partner

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# Fighting Forest Fires with Intelligence

Rod Goossen  
Chief Executive Officer / CO-Founder

