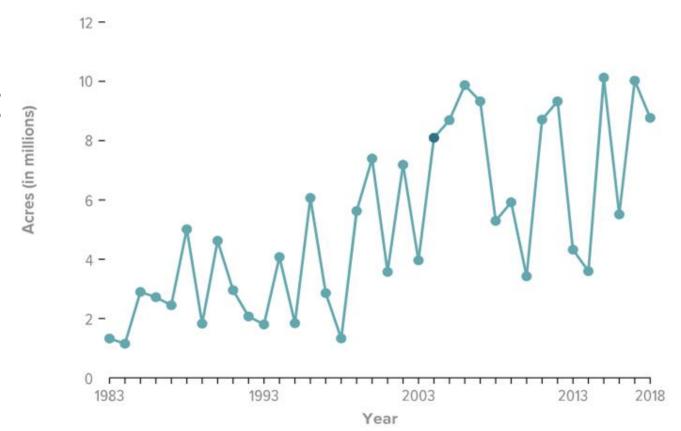






AREA BURNED BY WILDFIRE in USA





WILDFIRE PROCESS



Fire Detection



Extinguish Fire



Post Fire Surveillance

WILDFIRE PROCESS



Fire Detection



Extinguish Fire



Post Fire Surveillance

POST-FIRE SURVEILLANCE Challenges



Large area to monitor



24/7 surveillance



Manual visual inspections in forest



Slow information sharing and coordination



WISE POST-FIRE SURVEILLANCE SYSTEM

- 24/7 remote monitoring of burned areas
- Early wildfire reactivation detection
- Risk Assessment



HOW DOES IT WORK?

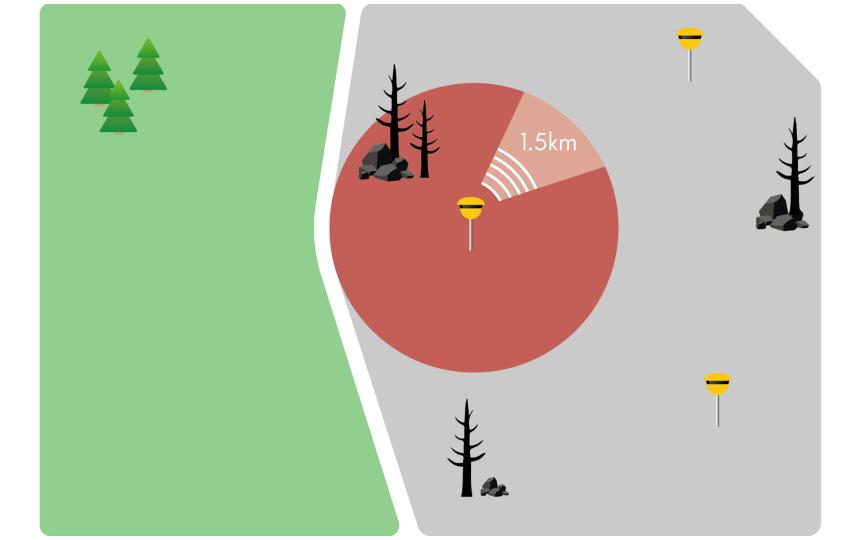
- CERN Technology
- Sensitivity Detection of 1 photon
- Detection up to 1,5 km/detector





Current flame detector by CERN









"With small fires it can be easier to place out equipment, especially with flat and open terrain."

Leif Sandahl Fire Engineer, MSB Swedish Civil Contingencies Agency

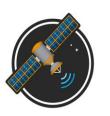




EXISTING SOLUTIONS



















Cost









Location Accuracy









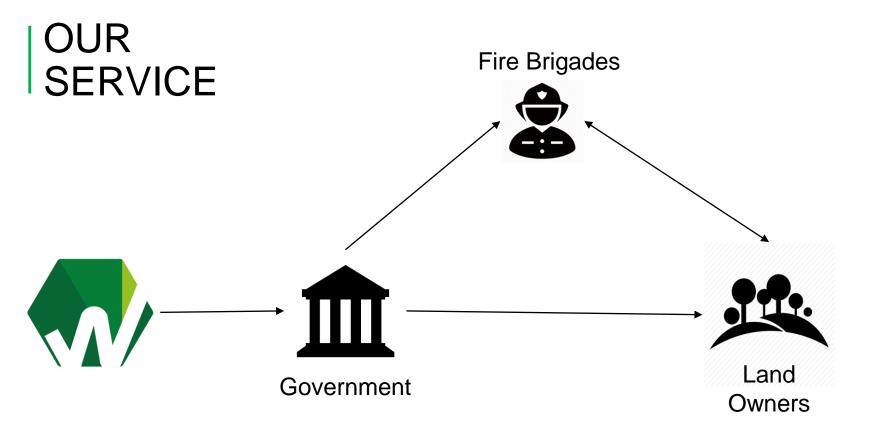
Large Area Monitoring



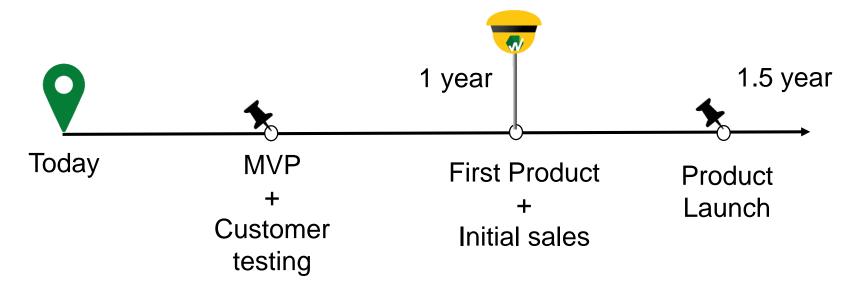




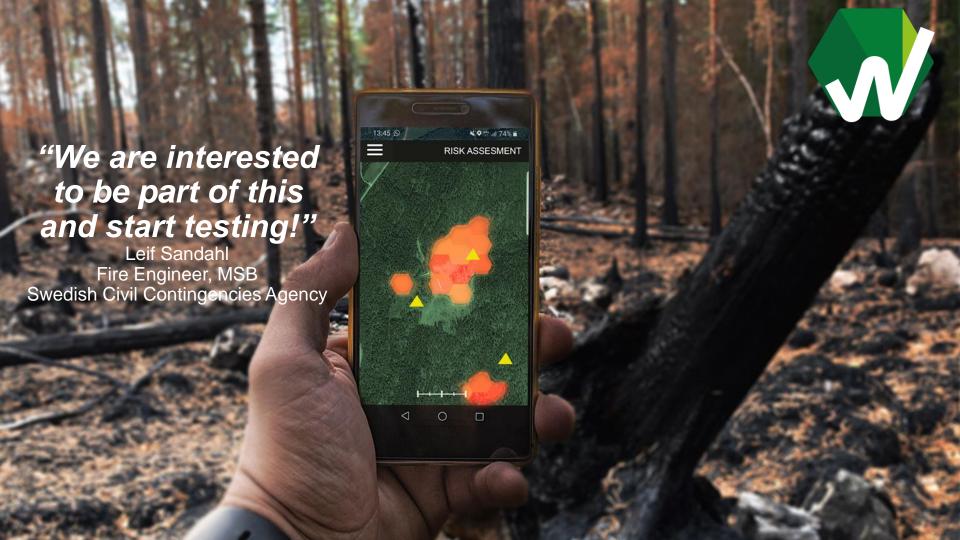




WISE TIMELINE









Q&A



Magdalena Lindén Ms Eng. Entrepreneurship and business design



Renato Cacciuttolo
Ms Eng. Innovation
and Entrepreneurship



Kristine Lund
Ms Eng. Operations
Management

1 YEAR BUDGET

PPL	Yea	arly expenses
Sensor technology (Engineer)	€	84.000,00
Software development x 2	€	168.000,00
Mechanical Engineer x 1/2	€	42.000,00
Hardware (Engineer) x 1/2	€	42.000,00
Magda	€	40.000,00
Renato	€	40.000,00
Kristine	€	40.000,00
Year Total	€	456.000,00
Office Space	€	15.000,00
Material costs/R&D	€	50.000,00
Total Yearly	€	521.000,00
For 2,3 years	€	1.172.250,00



PRICE EXAMPLE

	Selling price	
Price per detector	€	200,00
Sensors per kvm2		4
Standard price per kvm2 covered	€	800,00
Access to software/yearly/licence	€	3.000,00
Yearly maintenance service/detector	€	20,00

Price example - Gran Canaria fire	
Area of monitoring/kvm2	84
Sensors	€ 67.200,00
Software / 2 licences	€ 6.000,00
Service	€ 6.720,00
Total/first year	€ 79.920,00

SPECIFICATION OF FLAME DETECTOR

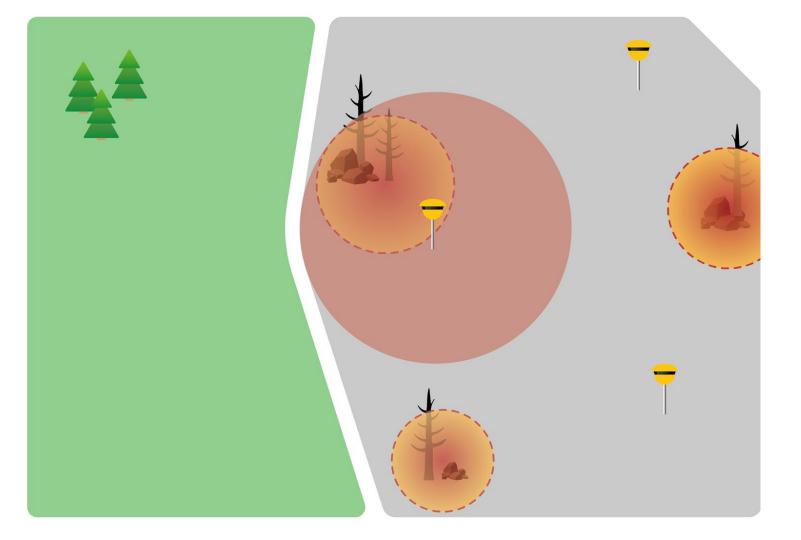
The sensor created by CERN is highly effective to detect photons on UV light produce by fire and sparks, therefore not sensible to sunlight or temperature.

Our post-fire flame surveillance system helps Government Safety Agencies and Forestry Companies who want to prevent wildfire reactivation, by providing 24/7 flame monitoring and alert you instantly if flames are detected. Unlike manual, drone and plane inspections of burned land.



Current flame detector by CERN





GLOBAL MARKET FIRE SAFETY EQUIPMENT

- > USD 57.31 billion in 2018
- > Expected growth from 2019 2025 : CAGR 8.8%
- > 105.92 USD billion by 2025