

# Smart Wildfire Detection



## Smart Wildfire Detection

Every year, numerous wildfires claim lives and cause losses for millions, especially affecting the environment, properties and the electrical grid.



Smart Wildfire Detection helps to:

- Anticipate and detect wildfires
- Collect and analyze visual evidence in real time
- Detect vegetation encroachment and general conditions of clearways



**Operating 24 hours of the day, 7 days of the week**



UFD-MINSAIT  
Best Project  
Energetic Awards 2021

intel®



### Best Project Energetic Award

In collaboration with UFD, Smart Wildfire Detection, has been awarded with the Best project award from Energetic in 2021



### INTEL GOLD PARTNERSHIP

Smart Wildfire Detection, the solution developed by Minsait in partnership with Intel, to help utilities protect the environment and communities

minsait ACS

## Smart Wildfire Detection, based on Onesait Edge main characteristics

4 visible spectrum cameras which provide a 360° view with 2 km range

Edge-computing/IoT HW, with onsite processing to minimize communication requirements and maximize battery life

Sensors for environmental variables: atmospheric pressure, humidity and temperature

Edge sw architecture to include monitoring of the electric grid and its surroundings

Self-sustained solution powered exclusively by solar energy designed for low energy consumption

Compact size and modular features to facilitate installation and deployment, regardless of accessibility

Artificial vision algorithms providing real time image analysis

Affordable cost per unit for a feasible scalability in electric power transmission and subtransmission.

### Highlights



Self-sustained solution powered by solar energy and IoT designed for low energy consumptions

ON-OFF control synchronism during idle periods to increase battery charge life



Artificial Vision processing and dedicated supported process hardware

Image processing through graphical filters and CNN (Convolutional Neural Networks) in charge of early detection of wildfires

