



ROBOTTO



A Platform to Help Save Lives and Save Nature

UAS Solutions for Wildfire and Other Crucial Needs

Thank you both for joining us. Can you tell us a bit about AWRA, your company's Autonomous Wildfire Recognition and Analytics platform?

By providing an area of interest, AWRA will autonomously fly to that area, utilizing computer vision and AI, identify any fires and calculate the exact position, size, and direction, plotting this data onto a topological map of the user in real-time.

How can integrating your platform with UAS benefit wildfire management agencies?

We provide wildfire management agencies with data that enables them to make smarter and faster decisions within their operations, ultimately containing wildfires faster.

Are your drones flown manually or autonomously?

The AWRA platform supports both fully autonomous missions, for when resources are diverted to other emergencies, and functions with manual control, for when the airspace is occupied.

A conversation with...



Kenneth Richard Geipel
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What types of drones does your platform integrate with, and with what companies do you source your drones from?

The drone is only the enabler of the software. We can use any open source drone platform for AWRA, as long as its robust enough for the wildfire conditions. All data processing will be done on NVIDIA boards.

What are the advantages of drones as opposed to other remote sensing tools or satellites when handling wildfire detection and suppression?

Remote sensing, or even camera sensing from helicopters and planes comes with limitations and without any data processing. Drones are much cheaper than current solutions and can operate at night and in areas covered with smoke.

How does your platform integrate with GPS and satellite data?

The only satellite communication currently is for the telemetry of the drone and does not rely or integrate outside data sources.

How can incident commanders harness information from drones to impact their decision making on the ground?

AWRA provides an overview of the current wildfire, by the position, size, and direction, and incident commanders can follow their efforts in combating the wildfire in real-time. Or keep an eye on the next wildfire and create a plan of attack.

In what ways can data and information from drone cameras be shared across platforms?

We have integrated Internet of Things technology into our AWRA service. Meaning that we can stream the data collected by the drone to any expert or headquarters that need this data.



Demo of Robotto's AWRA platform



How does your team approach data standards and data management?

We are abiding the GDPR laws, but there will be no storage of camera feeds. The data that we collect will only be used to create the next iteration of our AI models. Making AWRA perform better every time it is put into operation.

How does your platform handle when drones are in high heat and/or low visibility areas during wildfires, and how does that effect performance?

Our system contains thermal sensors as well, thereby low visibility from smoke will not influence the drone platform. AWRA is built to fly around the fire and will never come into a range where the heat of the fire will be an issue.

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Besides wildfire, what are some further use cases of your platform?

Our vision goes beyond wildfires. Use-cases that could be integrated with our platform would be search and rescue, first responders, oil-spill detection and tracking, powerline inspection, waterpipe inspection and shark and whale detection, just to name a few.

What existing partnerships does your team have with fire agencies around the world?

We are in a partnership here in Denmark with North Jytlands Emergency Service and are in talks with Fire and Rescue New South Wales in Australia, and emergency services around Barcelona and Navarra to launch our product.

What lessons has your team learned from collaborating with the Danish Emergency Management Agency and in what ways can you apply those lessons to working with US wildfire management agencies?

Our collaboration with the Danish Emergency Management Agency was created from the start. Having designed AWRA with a client-oriented approach, we learned exactly what data firefighters need to improve operations.
