

Drone with 3D mapping tech gives first responders near real-time data

June 11 2021, by Dan Gerstenfeld



Credit: ResponDrone Project

The international ResponDrone project has integrated into its situation

awareness system for emergency situations a near real-time 3D mapping solution to provide on-site emergency teams with tools that will help them to better evaluate their working environment.

The upgraded ResponDrone System will provide accurate location information to first responders, especially in relation to infrastructure, when called on to deal with a fire, flood or any other natural disaster.

ResponDrone has signed an agreement with Hivemapper to integrate its latest crowdsourced mapping technology. The ResponDrone System can now fly a mission over an area, process the collected data and turn it into an up-to-date 3D map. This is in line with the modular approach ResponDrone has adopted in the design of its platform, allowing easy expansion of the platform using state-of-the-art technology and giving first responders access to those tools.

"The need to provide precision 3D mapping to rescue teams as fast as possible has been identified by ResponDrone as a key capability toward attaining its goal of maximizing situation awareness for [first responders](#)," said ResponDrone project coordinator Max Friedrich of the German Aerospace Center (DLR).

"If an ambulance driver uses an outdated map to arrive at the scene of an accident, or a firefighting crew can't get to the scene of the forest fire as roads have been blocked due to falling trees as a result of the wildfire, the results could be fatal."

By using Hivemapper technology, ResponDrone will serve the needs of emergency services by providing the teams on the ground with the highly focused and updated situation awareness they need.

The broader community will benefit from the updated mapping data as the impact of [natural disasters](#) will be reflected in the mapping app in

near real time, which might otherwise have taken years to feature on traditional mapping platforms.

Provided by CORDIS

Citation: Drone with 3D mapping tech gives first responders near real-time data (2021, June 11) retrieved 2 May 2024 from <https://techxplore.com/news/2021-06-drone-3d-tech-real-time.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.