



Project name and abbreviation: Novel integrated solution of operating a fleet of drone with multiple synchronized mission for disaster responses (RESPONDRONE).

Programme: Horizon 2020.

Project duration: 1 May 2019 – 30 April 2022.

Budget: € 8 257 937,50.

RESPONDRONE in a nutshell:

The RESPONDRONE project, coordinated by the German Aerospace Center (DLR), brought together 20 partners from 12 countries to develop a drone-based platform that enhances situational awareness for first responders. Using a fleet of rugged drones equipped with cameras and communication tools, the system collects real-time data from disaster areas. This information is transmitted through a web-based interface accessible on mobile devices, enabling emergency teams to assess the situation quickly, locate victims, and even establish emergency Wi-Fi networks or deliver supplies in hard-to-reach areas.

A key innovation of the project is the ground control station that allows safe, simultaneous management of multiple drones. With an intuitive map-based interface, operational managers can coordinate missions and monitor responder and drone positions without requiring direct control by field personnel. The platform was developed through close collaboration with nine first response agencies to ensure it meets practical operational needs.

The RESPONDRONE system was successfully demonstrated in real-life scenarios at the ATLAS Flight Centre in Spain, showcasing its potential in operations like wildfire response and search-and-rescue missions. The project has laid the groundwork for commercializing this technology, aiming to make advanced drone support accessible to emergency services across Europe and beyond.

More information about the project: <https://respondroneproject.com/>.

More information on CORDIS: <https://cordis.europa.eu/project/id/833717>.