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UAV data in a training centre for rescue and emergency forces: The EU's TT-GSAT project.

TT-GSAT is the EU-funded project "Test and Training Centre for Geoinformation and Satellite-based Rescue and Emergency Services". It is intended to give all interested rescue and emergency services the opportunity to test innovative technologies in the field of satellite-based navigation.

Drone data plays a central role in the TT-GSAT system. Drone data is quickly available and provides an accurate situational picture. GEOSYSTEMS will provide the automated workflow to integrate drone data into the testbed in an ad-hoc manner, allowing responders to train realistic mission scenarios. This requires precise and accurate processing of RGB as well as FLIR information. FLIR data poses a challenge due to its information content and resolution.

In addition to providing information during rescue operations, situational awareness information should be provided immediately to the operations centre as an OGC service. This will provide the most current information and support their decisions.

Another important part of the system is that drone information is used to feed real-time data for augmented reality applications. This will support firefighters in the field with enriched 3D information.

Other work packages in the TT-GSAT project include handling communications under emergency conditions, using augmented reality for rescue, and satellite-based maps for predictive response planning for major incidents.