

AIRBEAM: AIRBORNE INFORMATION FOR EMERGENCY SITUATION AWARENESS AND MONITORING

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Abstract

The AIRBEAM RTD project has been selected by the European Commission within the FP7 Security programme. The project has started in January 2012 for a duration of 4 years. It proposes a situation awareness toolbox for the management of crisis over wide area taking benefit of an optimised set of aerial unmanned platforms, including satellites.

The number of unmanned air- and space-borne platform available and their associated sensors potentially present a new set of challenges to end users involved in the effective management of emergencies and actions of law enforcement. Within the scope of crisis management, the project intends to provide official public users from EU Member States with the means to specify their own needs and to assess the technical solutions provided by unmanned aerial platforms.

By running scenarios in a simulated environment, the increased capabilities for situation awareness will be assessed methodically. Various platform and sensor mixes will be compared using key performance indicators. Live demonstrations with multiple civil unmanned aerial platforms will complete these ground simulation exercises in demonstrating to end users the potential and maturity of the coordinated use of multiple platforms.