

MEDUSA - Multi Sensor Data Fusion Grid for Urban Situational Awareness

Program/Call Reference, Strategic Priority, Grant Agreement Number, Project Type

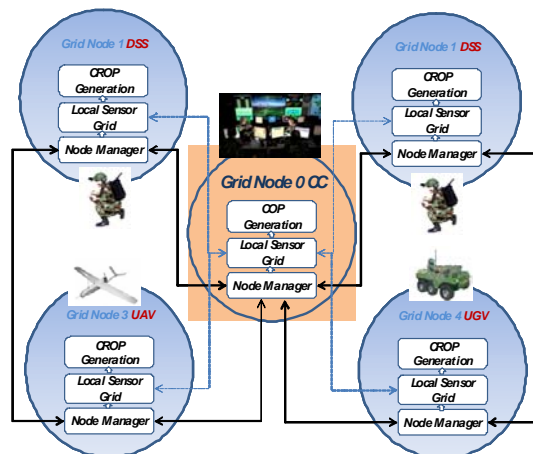
European Defense Agency, A-0444-RT-GC JIP-FP Call 3 (Sensor Fusion)

Grant agreement no: MEDUSA- A-0826-RT-GC

Project Objectives

The MEDUSA project will study a combination of different types of sensors supporting operations within urban environments. The essential improvement that the MEDUSA project will be implementing is the provision of a means to address major existing capability shortfalls:

- (i) in the fusion of data from multiple diverse types of sensors and
- (ii) in the data representation, by means of a consolidated and integrated view, including overlaying across 3D GIS (Geographical Information System) models to facilitate decision-making by commanders of control and support operations.



The MEDUSA project will analyze a diverse cross-section of existing imaging sensor technologies including those in the field of video, with specific reference to images on visible and infrared bands. The fusion of this sensor data in particular with Digital Terrain Elevation information provided by the GIS is currently an acknowledged key technology / capability shortfall and thus a salient benefit of the MEDUSA

project outcome – both for increasing overall knowledge in the domain and as a means of accelerating downstream exploitation of enhanced approaches. Another group of sensors that will be considered for data fusion in generating an Operational Ground Picture, are sensors in very different categories, inclusive of acoustic sensors, motion detectors, chemical sniffers, through the wall radars and the like.

Project Starting Date and Duration / Total Cost – Total EU Contribution

1/09/2008, 30 months / 5.615.626 € - 3.651.740 €

AIT's Role / Principal Investigator

Sensors Grid Middleware; Situation Awareness in Urban Environment Prof. John Soldatos (jsol@ait.edu.gr)

AIT's Main Work Item

Middleware Development, Sensor Fusion, A/V Processing for localization and tracking

Main Partners (11 partners in Total)

Partner Name	Role	Funding



1	VITROCISET	Project Coordinator	746.589 €
2	AIT	Sensor Fusion Grid Developer	323.000 €