

THIS - Transport Hub Intelligent video System

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

JLS/2009/CFP/CIPS "Prevention, Preparedness, and Consequence Management of Terrorism and other Security Related Risks"

Project Objectives

A "transport hub" (or simply a "hub", referring to an "transport hub", a port or a railway station having all of them more or less the same characteristics of passengers in movements and baggage), is a busy public place and therefore very attractive for terrorists. The threats, conventional and unconventional, against which a "hub" needs to be defended are diverse but mainly consist of acts of terrorism against transport means, passengers, crew, and "hub" infrastructure. An integrated "hub" security system is a multi-segment and multi-level intelligence and surveillance system, aims to create an entire "transport hub" security monitoring solution. The project "THIS" is a single-segment/level (passengers and air-crew as terrorist operatives -both witting and unwitting involvement -, "transport hub" personnel, visitors, suppliers etc. including people access and boarding control) of such overall system, able to provide real-time accurate behavioural analysis of people in "transport hub" specific areas from day and night video sensors.



THIS objectives are: i) Field video data collection from video sensors in the "transport hub" areas; ii) the collected video data will then be fused and analyzed to identify suspect individuals; iii) THIS will make these resources available to console operators through the use of web-portals.

There are two types of errors in threat detection that may occur: (i) nuisance alarms and (ii) missed detections. Nuisance alarms are activated from non-threatening passengers and events. These cause unnecessary delays for passengers and other "transport hub" operations and other issues. A much rarer occurrence is that of missed detections, which refers to threats which pass through the system undetected. These can have more significant effects such as considerable passenger injury or destruction in the "transport hub". THIS provides a clear solution that aims to diminish nuisance alarm occurrences to ensure minimal effect on the flow of commerce, whilst ensuring minimal missed detections to provide a high degree of security via a holistic approach that considers all potential threats to the operation of an "transport hub".

Project Starting Date and Duration Total Budget / EU Contribution

1/1/2010 (expected), 6 months, 678200€ / 474200€

AIT's Principal Investigator

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AIT's Main Work Item

ROI Analysis, Privacy Assessment, Middleware Development, Pilot Coordination

Main Partners

Partner Name	Role	Funding

1	CRIS	Project Coordinator	84.000 €
2	AIT	Video Analysis	42.000 €