

## D36.1 Review of security solutions related to preventive and early intervention

State-of-the-art review of relevant threat scenarios and current security solutions from the point of view of their applicability to preventive and early intervention

### PUBLIC SUMMARY ONLY

Référence SCR-WP36-D-VTT-016-PS

Document identification	
<b>Related SP / WP</b>	SP3 / WP36
<b>Related Deliverable</b>	D21.2, D23.1, D41.2
<b>Lead Participant</b>	STI
<b>Contributors</b>	VTT, ALS, BOM, EDI

<b>Reference</b>	SCR-WP36-D-VTT-016
<b>Dissemination Level</b>	CO
<b>Lead Author</b>	Ilpo Kulmala, Nadezhda Gotcheva, Raija Koivisto
<b>Reviewers</b>	ATM, WUE, EME

This document is issued in the frame and for the purpose of SECUR-ED project. This project has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 261605.

This document and its contents are the property of SECUR-ED Partners. All rights relevant to this document are determined by the applicable laws. Access to this document does not grant any right or license on the document or its contents. This document or its contents are not to be used or treated in any manner inconsistent with the rights or interests of SECUR-ED Partners or to their detriment and are not to be disclosed externally without prior written consent from SECUR-ED Partners. Each SECUR-ED Partner may use this document in conformity with SECUR-ED Consortium Agreement provisions.



<b>Document name:</b>	D36.1 Review of security solutions related to preventive and early intervention (Public summary)			<b>Page 1 of 3</b>
<b>Reference:</b>	SCR-WP36-D-VTT-016-PS	<b>Dissemination:</b>	PU	<b>Version :</b> 2.0
		<b>Status :</b>	Issued	



# 1 Public Summary

The main objective of “Preventive and early intervention” work-package (WP36) is to develop an intelligent incident prevention and early warning system by using different types of information from multiple sources. The idea is that the combined information is analysed against various potential threat scenarios to predict and intervene possible events that could threaten the security of passengers, cause interruptions or massive damage to property.

The process of development of the early warning system includes the following steps:

- 1) Identification of possible threat scenarios that may cause damage to a mass transport system;
- 2) Identification of methods/enablers of early detection of damaging scenarios;
- 3) Identification of weak signals detection in the local threat environment;
- 4) Identification of weak signals detection in the global threat environment; and
- 5) Development of a framework for the early warning system prototype.

This deliverable D36.1 (task leader STIB, Societe des transports intercommunaux de Bruxelles SSF) reviews enabling technologies for security solutions related to preventive and early intervention. First the threat scenarios and related preventive capabilities were identified by investigating possible mechanisms that may cause damage to a mass transport system. Then, enabling technologies for each capability were reviewed.

Figure 1 illustrates the preventive and early intervention framework of this work-package.

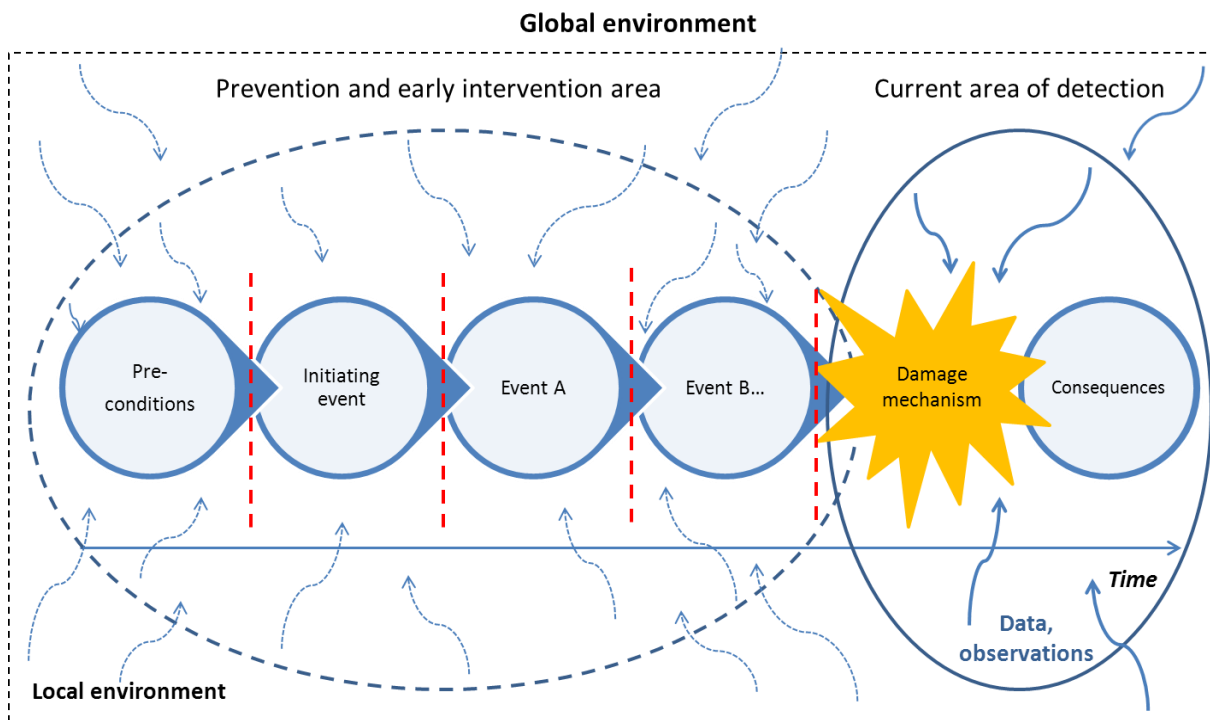


Figure 1. The preventive and early intervention framework of WP36

<b>Document name:</b>	D36.1 Review of security solutions related to preventive and early intervention (Public summary)			<b>Page 2 of 3</b>
<b>Reference:</b>	SCR-WP36-D-VTT-016-PS	<b>Dissemination:</b>	PU	<b>Version :</b> 2.0
		<b>Status :</b>	Issued	



This deliverable reports the result of the review of enabling technologies related to preventive and early intervention. The review covered widely possible enabling technologies at different maturity levels and in different applications – not only those, which are currently used in mass transport. Because the scope is very wide, a practical approach was taken; a survey among the operators was organized to find out, which would be the most important capabilities needed to ensure the secure operation today and in the future. This document describes the enabling technologies to create these capabilities.

- End of Document -

<b>Document name:</b>	D36.1 Review of security solutions related to preventive and early intervention (Public summary)			<b>Page 3 of 3</b>	
<b>Reference:</b>	SCR-WP36-D-VTT-016-PS	<b>Dissemination:</b>	PU	<b>Version :</b> 2.0	<b>Status :</b> Issued