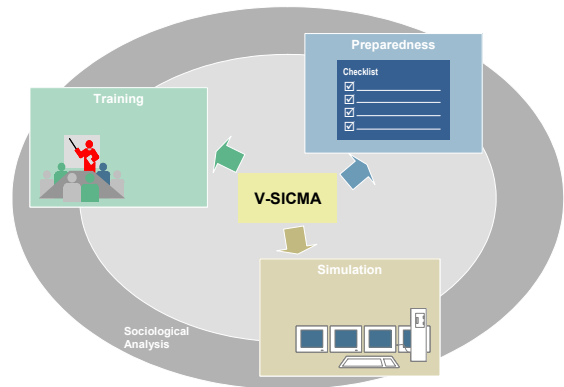


V-SICMA

Awareness-Raising & Competence Building Training of Public Transport Staff in countering Terrorism and Serious Crime using interactive Virtual Realities (3D-Serious Games)



Analysis and Concepts

Project description:

Among critical infrastructures it is public transportation (PT), which is most vulnerable, and where the need for protection as well as rescue of persons is most decisive. PT-operators and their staff shoulder extensive duties and responsibilities in preventing and mitigating attacks from terrorism and serious crime. Living up to these responsibilities requires innovative approaches as well as technologies. However, technology alone will not suffice: whatever is monitored or detected requires the assessment, verification and action by well trained staff! Tim O'Toole, Managing Director of London Underground, stated after the attacks:

"the big lesson for us is to invest in your staff, (and) rely on them; invest in technology but do not rely on it".

This account ought to be amended insofar, as the most intelligent way for investing in staff might **embrace technology-aided trainings!** That is the approach taken by V-SICMA, a research-project, co-financed by Germany's Federal Ministry for Education and Research, in which demonstrators for highly sophisticated security-trainings for PT-staff are developed. The trainings include – among others – interactive, 3D-simulations of relevant scenarios in PT.

The tools developed in V-SICMA constitute innovative technological solutions for urgently needed security trainings of employees in the most vulnerable of all critical infrastructures. Such inventive approaches meet the security-challenges of the 21. century, by providing training that is developed for specific PT security threats. The training is of highest learning-effectiveness, almost as high as real exercises, and at minimal costs, because it does not require the shutting down of (parts of) the PT-systems or business interruption, which would be a major hindrance for most operators. For these reasons, the approach is an ambitious technological solution to the pressing challenges and of greatest practical applicability.

Activities HC:

- project management
- development security concept & scenarios
- development curriculum & training concept
- evaluation & feedback
- roll-out & dissemination

Project details:

Country:	Germany
Location:	Hamburg, Munich, Mannheim
Client:	German Federal Ministry of Education and Research – BMBF within the scope of the "Science for Public Security" program as part of the Federal Government's strategy for High-Tech
Partner:	Hamburger Hochbahn AG Münchener Verkehrsgesellschaft mbH Rhein-Neckar-Verkehr GmbH Industrieanlagen-Betriebsgesellschaft mbH (IABG) Verein für Sozialwissenschaftliche Forschung und Beratung e.V.
Sub-contractors:	Hamburger Hochbahn Wache Axel Bédé Training & Consulting for Security Management
Duration:	2009 - 2012

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