



SECMAN

Security Risk Management Processes
for Road Infrastructures



Road Infrastructures Security Manual

The project SecMan aims to develop a practical process for the identification of critical infrastructures in Europe. Furthermore, the assessment of these infrastructures in a structured and comparable way as well as the determination of effective protection and mitigation measures is an integral part of SecMan. These methodologies will be summarized and combined into a comprehensive best-practice manual which allows for a trans-national structured and holistic security-risk-management approach for owners and operators of road infrastructures in Europe.



SEC MAN

Security Risk Management Processes for Road Infrastructures

Motivation

The transport network in Europe is probably one of the most important systems for our economy and society. Trans-national transport routes play a vital role in goods traffic and the supply of the population. In this respect, critical road infrastructures, like bridges or tunnels, can have a bottle-neck function. Any disturbance of these structures could lead to negative consequences for the population and the economy as a whole.

How can we deal with this issue?

- Currently, no common processes, methodologies or standards exist
- There is an apparent need for the harmonization of security measures for road infrastructure
- A trans-national risk management approach would increase prevention possibilities
- A trans-national emergency response strategy would facilitate and accelerate reaction in the case of an event

Objective

- Develop a practical process for the identification of critical road infrastructures in Europe, based on common aspects
- Assess these infrastructures in a structured and comparable way
- Determine effective protection measures
- Determine effective measures for mitigation

These processes will be summarized and combined into a comprehensive best-practice manual which allows for a trans-national structured and holistic security-risk-management approach.

Expected Results

The result of the project will be a security-risk-management manual for the protection of critical infrastructure on European highways.

Target groups:

- Administrative authorities in the respective Member States
- Owners and operators (public and private) of road networks and infrastructure
- Security personnel of bridges or tunnels
- Researchers, design engineers and policy-makers



The manual allows owners and operators of critical road infrastructure to identify, quantify and assess security risks and determine possible protection measures. Hence, the protection of the infrastructure users and the infrastructure itself are enhanced.

Work package structure

01

State of the Art

Analysis of the state of the art regarding current and completed research projects as well as relevant literature

02

Survey & Interviews

Survey and interviews with owners and operators of road infrastructures regarding security risk management for bridges and tunnels

03

Scenarios for Infrastructures

Identification of relevant infrastructure specific scenarios based on existing threat analyses

04

Assessment of Security Risks

Methodology for identification, quantification, analysis and assessment of security risks

05

Measures

Recommendations for structural, operational and organisational prevention / mitigation measures with estimation of their effectiveness

06

Manual

Preparation and elaboration of a substantial security risk manual for road infrastructures

07

Demonstration & Validation

Exemplary manuals for a TEN-T road bridge and tunnel



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Partners



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Consulting Engineers
(Slovenia)



For more information please contact:

Bundesanstalt für Straßenwesen (BASt)
Federal Highway Research Institute
Section B3 – Tunnel and Foundation Engineering,
Tunnel Operation, Civil Security

Brüderstrasse 53, D-51427 Bergisch Gladbach, Germany
Phone: +49 2204 43-858, E-Mail: Secman@bast.de

www.secman-project.eu