Save the Date
ValueSec - Final Conference
December 10, 2013
Brussels

The ValueSec Project
Project Presentation

Project coordinator, Fraunhofer IFF
Where do we come from

Topic SEC-2010.6.4-1 Cost-benefit analysis of the present and future security measures in Europe

The tool should help policy-makers when they have to make decision on issues which are security related. The costs and the benefits of the different security measures should become more apparent and the decision makers should be better equipped to understand the security consequences of their decisions and thus be in a better position to make the right decisions.
Most security measures (and investments) are taken by public stakeholders and administrations

- Decisions based on monetary (quantitative) but also on social and cultural considerations (qualitative)
- Public good consideration
- Who pays and who benefits

No methodological framework available for the economic evaluation of security measures

- Focus mostly on ICT security
- EU research projects focus on economic source/impact of terrorism
Project overview

- Funded in:
  - FP7 – Theme 10 Security
  - Call 3 (FP7-SEC2010.6.4-1)

- Duration:
  - Feb. 01, 11 – Jan. 31, 14

- Project budget:
  - Overall budget 4,473,885€
  - Funding 3,443,210€
Project goals

- Development of a decision support tool to be used for the assessment of security measures and investments
  - Target group: public decision makers

- Development of a methodological tool box for a comprehensive cost-benefit analysis, taking into account
  - Quantitative factors (risk reduction, monetary costs, time, etc.)
  - Qualitative factors (security perception, privacy needs, etc.)

- Validation of the methodology and the toolset in realistic use cases
Work packages

WP2 Problem analysis & requirements

WP3 Methodology and tools

WP4 Functional design

WP5 Tool development

WP6 Validation in use cases

Project management and dissemination & exploitation
How and under which framework conditions do public stakeholders make decisions regarding security measures and what do they actually need?

• How is the decision making process structured?
• What are current priorities / parameters that influence decision making?
• Which parameters are necessary to make informed decisions?
• What kind of decision support is needed to facilitate necessary trade-offs?
What is the methodological state of the art in decision analysis and support regarding economic and social factors?

- Establishment of a theoretical framework for planning and decision making under uncertainty.
- What methodologies and tools are available to support the decision analysis process?
- What is the level of maturity of the available methodologies and tools?
- How can available methodologies and tools be adapted to fit the project scope?
Work packages

How can stakeholder requirements and methodological state of the art be brought together to describe a decision support system in a security context?

• In how far can stakeholder requirements be satisfied by combining currently available methodologies and tools?

• What are research needs?

• How can a decision support system be implemented in a tool?

• Functional design of a decision support tool.
How can the desired functionalities for a decision support system be implemented and tested in a comprehensive tool?

- Planning of implementation process
- Definition of the technical architecture and development of a prototype.
- Definition and collection of necessary input data and testing of software application
What are typical decision making processes of public decision makers in which the developed tool box and methodology shall be validated and evaluated?

- Definition of use cases within pre-defined decision making contexts
  - Public mass event
  - Public transportation
  - Air cargo / Airport security
  - Communal security planning
  - Cyber security
Stakeholder involvement

Stakeholder involvement as an important factor for ValueSec to:

- Guarantee relevance for end-users
- Use of practical input to ensure applicability and usability
- Build realistic use cases based on actual application scenarios
- Involve end-users to in testing and validation to facilitate uptake
• First public presentation of the ValueSec idea and engagement of stakeholders
• Participation of approx. 10 end-user
• Organized as a computer-aided brainstorming session
• Input regarding
  ▪ Current approach and structure of the decision-making process
  ▪ Requirements for a decision-support tool
• In-depth presentation of the ValueSec toolset prototype in the context of a use case

• Participation of approx. 30 external stakeholders from policy and research

• Input regarding
  ▪ Usability and appropriateness of the toolset for decision support
  ▪ Exploitation potential
Representation of Saxony-Anhalt at the EU Center of the Regions
Boulevard Saint Michel 80
Brussels

Decision Support for Security Policy: Current research and trends
## ValueSec advisory board

<table>
<thead>
<tr>
<th>Contact Person</th>
<th>Organization</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Tillmann Brück</td>
<td>Stockholm International Peace Research Institute (SIPRI)</td>
<td>SE</td>
</tr>
<tr>
<td>Ms. Birgit Graßhoff</td>
<td>Saxony-Anhalt Ministry of the Interior and Sports</td>
<td>DE</td>
</tr>
<tr>
<td>Prof. Bernard Hämmerli</td>
<td>Acris GmbH</td>
<td>CH</td>
</tr>
<tr>
<td>Mr. Tarald Johanson</td>
<td>AVINOR</td>
<td>NO</td>
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<tr>
<td>Mr. Michael Lardschneider</td>
<td>MunichRE</td>
<td>DE</td>
</tr>
<tr>
<td>Ms. Tarja Mankkinen</td>
<td>Interior Ministry of Finland</td>
<td>FI</td>
</tr>
<tr>
<td>Mr. Jos Menting</td>
<td>LABORELEC GDF-SUEZ</td>
<td>BE</td>
</tr>
<tr>
<td>Mr. Michael Pellot</td>
<td>Transports Metropolitans de Barcelona</td>
<td>ES</td>
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• Review ValueSec Y1
• Outlook Y2 and beyond
• Support for the progression from theory to practical development
• Input regarding
  ▪ Structure of decision making
  ▪ Use of economic measures
  ▪ Societal/Qualitative factors
• Review ValueSec Y2
• Presentation of the current status of the ValueSec toolset, focusing on
  ▪ Qualitative Criteria Assessment
  ▪ Cost-Benefit Assessment
• Input regarding
  ▪ Structuring and usability of the toolset
  ▪ Output generation, reporting functions of the toolset
Overview of project’s current state

Distribution of public deliverables

Information on use cases

News about upcoming project events

Links to further information and projects
Thank you for your interest in the ValueSec project.

Coordinator’s Contact

Fraunhofer Institute for Factory Operation and Automation IFF

Sandtorstr. 22
39106 Magdeburg
Germany

www.iff.fraunhofer.de

Christian Blobner

Project Manager
Logistics and Factory Systems
Tel.: +49 391 4090 371
Fax: +49 391 4090 93 901
Christian.Blobner@iff.fraunhofer.de

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www.valuesec.eu