

- Towards a More Multidimensional Security Design -





Research Project SIAM

Objective

Web-based assessment support system for decision makers at airports and public transport (federal police, airport operator, airlines etc.) consisting of:

- Data base,
- User based simulation of the decision making process,
- Multi-dimensional assessment heuristic

Case Studies







Procedure/ Current Status



7. Development of methodologies in order to use the assessment

Regime Change?



Reconstruction of Innovation Journeys

A technology is not given, but rather the result of many process assessment activities of different actors with changing goals, expectations and assessment criteria over the time.

The outcome of the evolution process is uncertain, even though actors try to influence and shape the technology development according to their objectives.

The innovation journey is a non-linear process taking place in recognizable phases. It is neither stable, predictable, stochastic nor random. It diverges into multiple, parallel and interdependent paths of activities...











Problems and Derivations

• Involvement of stakeholders

- Lacking knowledge about actor constellations
- Overestimation of the own role
- Time of involvement of other actors
- Development of objectives, definitions, assessment criteria
- Little or no understanding regarding other roles

• Hopeful monstrosities

- High expectations
- Unfulfilled promises
- Wrong paths
- Lacking knowledge regarding
 - The technology
 - Applicability
 - Organizational processes
 - Management process

• No standard procedures for decision making processes

- Time schedule
- Irreversibility
- Control



Multi-Dimensional Assessment Heuristic





Increasing reflexivity during the assessment process of security technologies by applying the **STEP** perspectives:

Security: technologies' functionality in countering threats and reducing risks; robustness, secrecy,

Trust: experiences and subjective perceptions, technological normativity, visibility, understandability, usability ...

Efficiency: organizational processes and economic factors; performance (capacity, throughput), interoperability ...

Privacy: impact of the technology on the freedom and rights of a person; intimacy and self determination; DP pronciples

Creating Ontologies



S-T-E-P Procedure

- simplified-



Regulations and Policies Best-Practices and Evaluations Scenarios and further Methods

Security Impact Assessment Measures

Projekthomepage: Projektleiter:

Kontakt:

www.siam-project.eu Dr. Leon Hempel

Technische Universität Berlin Zentrum Technik und Gesellschaft Sekretariat: HBS 1 Hardenbergstraße 16-18 10623 Berlin

www.ztg.tu-berlin.de





