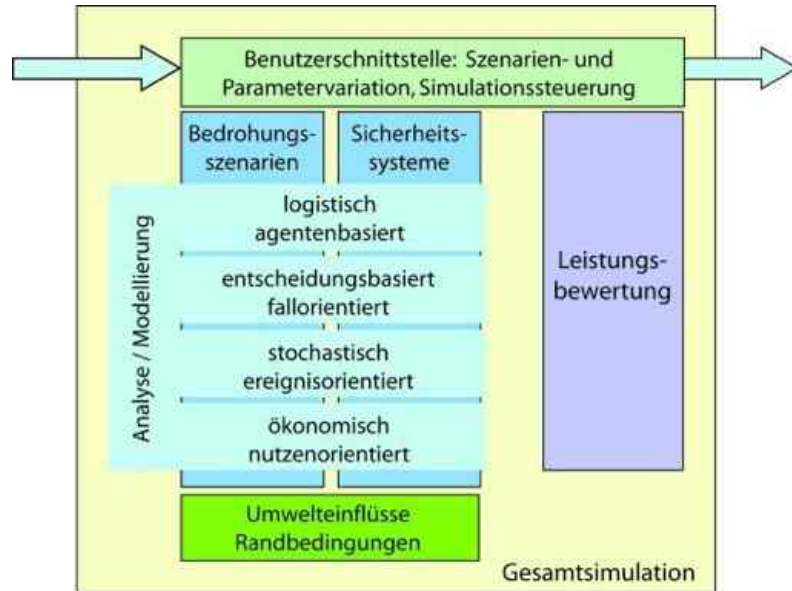


# Towards a multi-dimensional technology assessment: The introduction of security technologies at airports and public transport systems

*Leon Hempel, Tobias Schaaf, Dagny Vedder, and  
Lars Ostermeier*

# Assessment approaches

## Cost benefit



Source: EADS – SiVe Project

## Privacy Impact Assessment



## Surveillance Impact Assessment

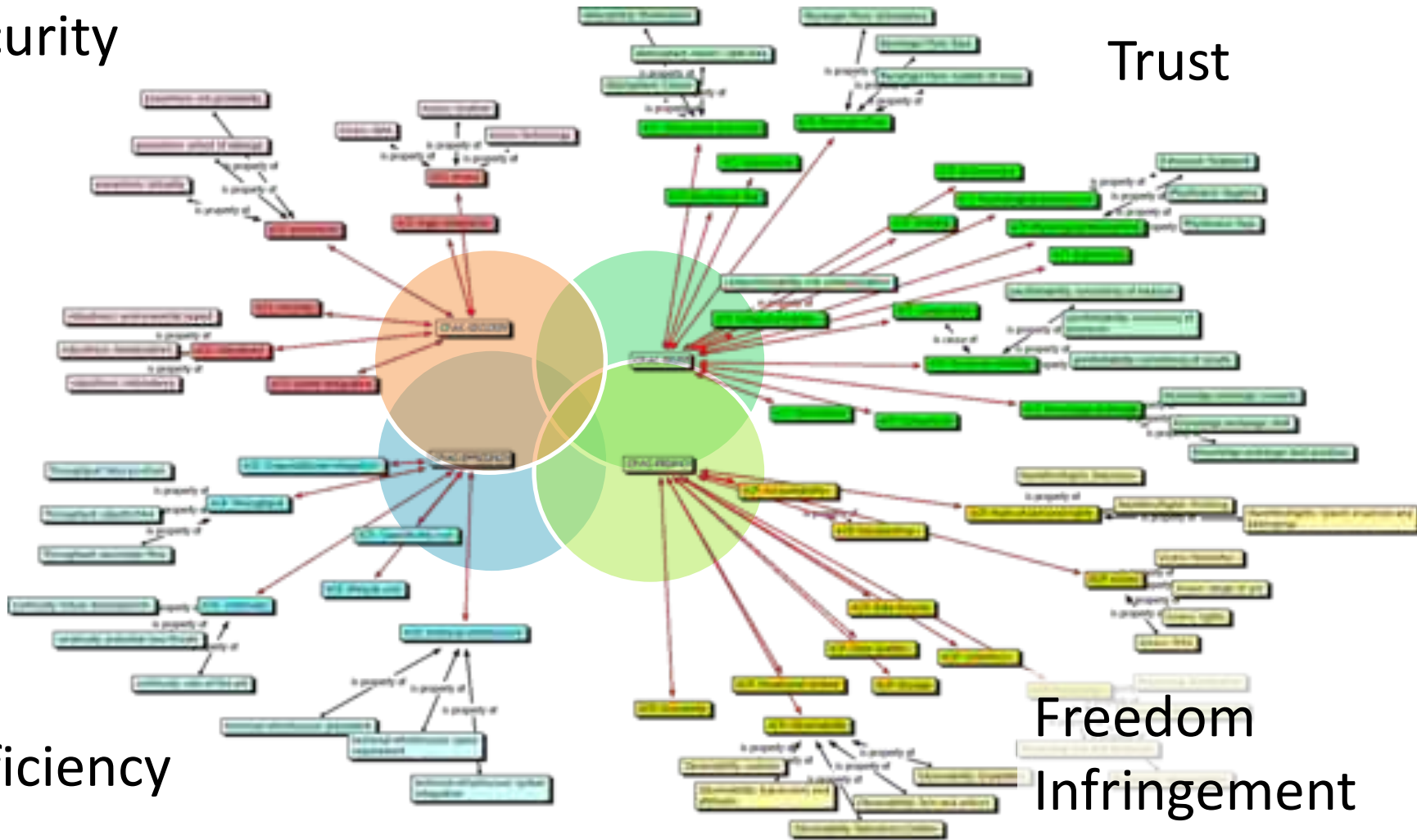
# SIAM assessment model

Security

Trust

Efficiency

Freedom  
Infringement



# S-T-E-Fi (working) definitions

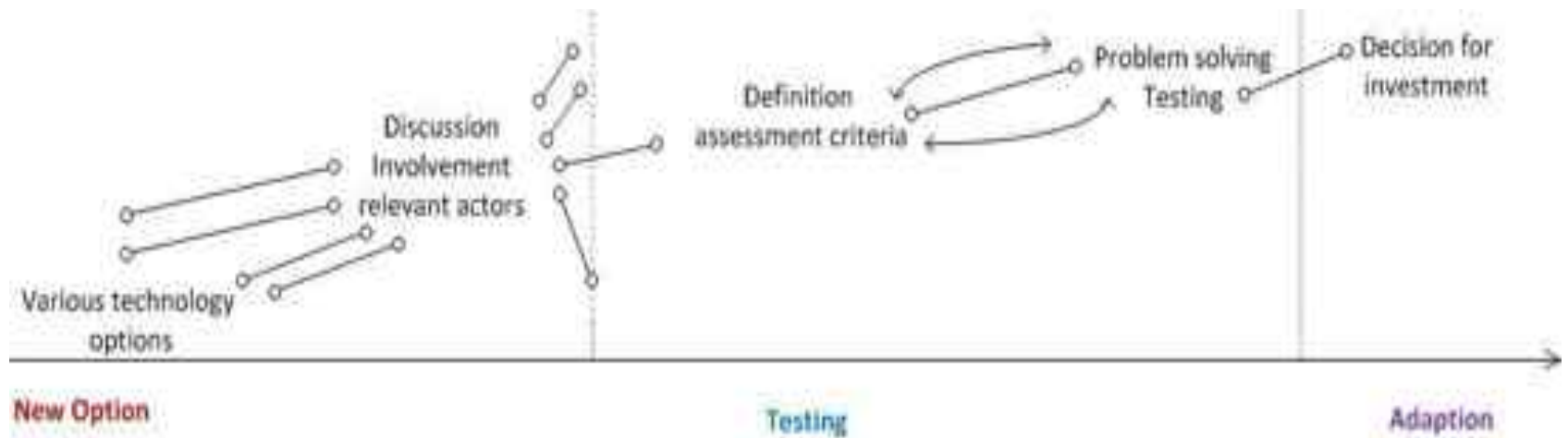
The first dimension is **Security**. It entails a set of interrelating concepts including risk, deviance, vulnerability/resilience, robustness and so on...

The third dimension is labeled **Efficiency**. Taking the specific processes and resources (time, space, effort and costs) of a site into account it focuses on the capability of a tool or system and combines it with economic considerations.

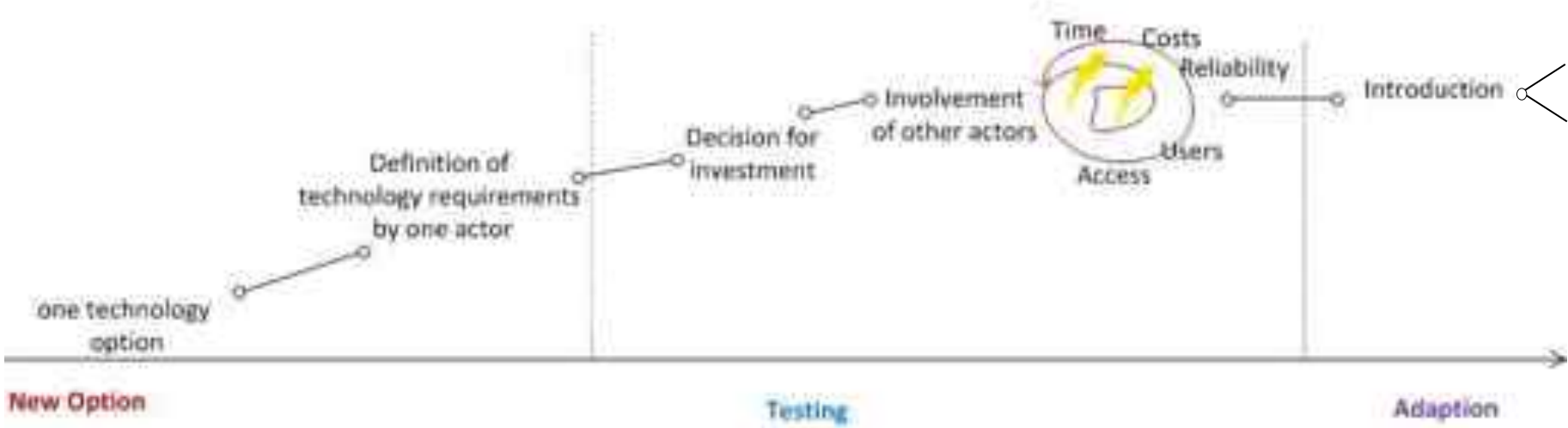
**Trust**, the second dimension, relates to both trustworthiness and **to the way people perceive and experience security measures and technologies**. This will be specified in relation to what people trust: the technical reliability, the actual safety it provides, the level of confidence they have and the trust they have that such measures respects their rights and freedoms'.

**Freedom Infringement**. Seven types are identified: Bodily integrity; Equal treatment and non-discrimination; Freedom of movement; Freedom of unlawful detention; Presumption of innocence; Fair trial and due process; Privacy and data protection.

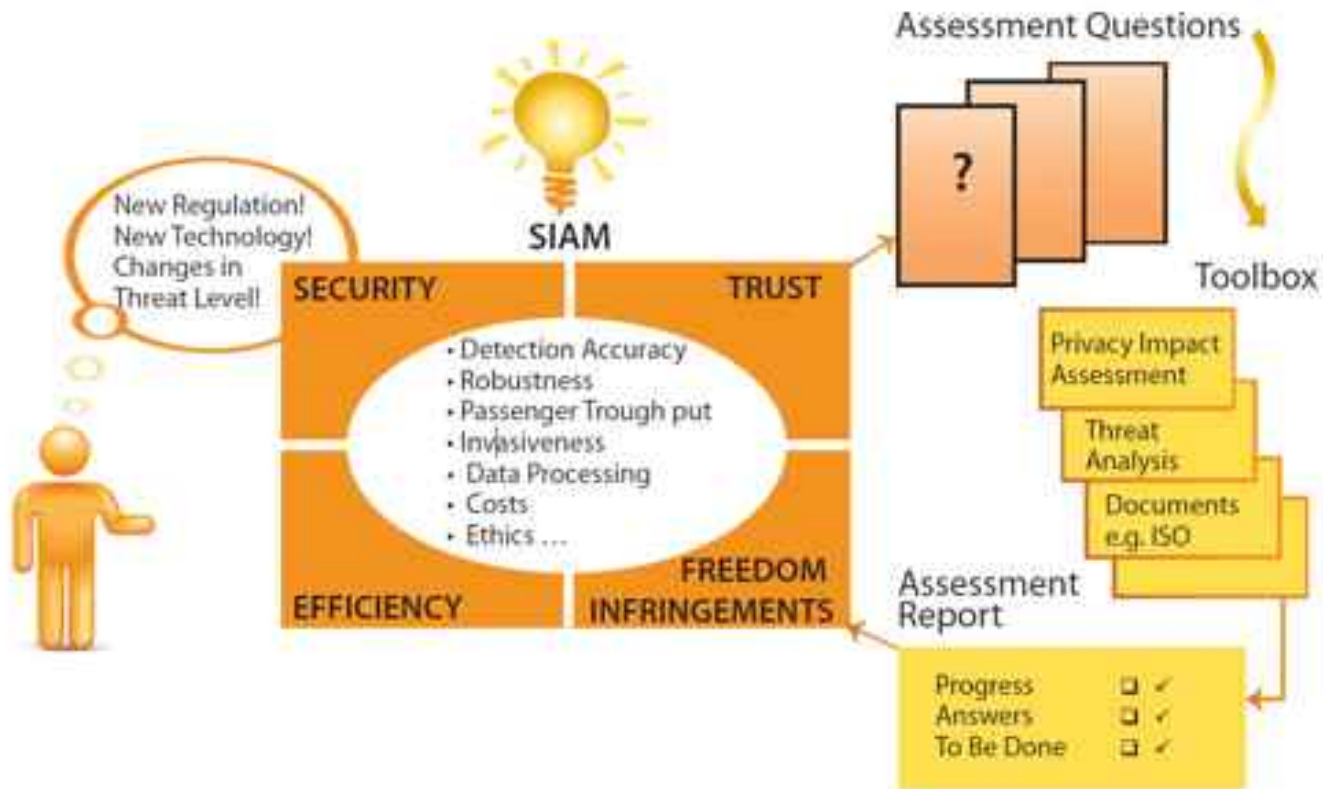
# Exemplary decision making processes 1



# Exemplary decision making process 2



# SIAM assessment process



# **QUESTIONS AND RECOMMENDATIONS?**