D54.4 Methodology Improvement
Public summary only (PS)
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Public Summary

WP54 on "Performance Benchmarking" takes a look on the whole body of SECUR-ED. It results in two final deliverables with separated audiences and viewpoints. D54.3 "Improve the risk reduction system" is about security solutions, which covers the reflection on the capacities and their usage based on a cost-effectiveness perspective, and to assess their potential from a security improvement perspective. The targeted audience is PTOs and other stakeholders in mass transport.

D54.4 "Methodology improvement" is a reflection on a more abstract level about how to perform large demonstration projects. It offers substantial learning on the methodologies employed throughout SECUR-ED. The targeted audience is people concerned with future demonstration projects, which may either prospective partners or European institutions such as DG ENTR and REA.

This deliverable documents learning about methods employed throughout SECUR-ED. It has a focus on demonstration project specific methods that aim at the coordination, cooperation and collaboration between sub-projects and work packages. Common methods and tools for the management of integrated projects are out of scope. It covers ten methods:

1. Common Glossary
2. Interoperability Notation
3. Modelling and Simulation
4. Scenario Description with BPMN
5. Risk Assessment for Additional Cities
6. Working Groups
7. Capacities Mapping Matrix
8. Capacity Hand-over Checklist
9. Demo City Dashboards
10. Assessment of Demonstration Results

For each method, a description of their intention and usage is followed by a reflection about transferability, reliability and validity. Most of the methods are accompanied by detailed descriptions and/or represent established methods or notations, which demonstrate transferability potential both within and outside the transportation sector. The use of most methods allows the conclusion that clearer requirements and better internal communication and information sharing would improve consistency.

In addition there is a reflection about the overall demonstration project methodology, also considering the experience with other such projects in the security research programme. This addresses the following seven rules that are suggested for demonstration projects:

1. Follow the experimentation approach.
2. Organise campaigns of experimentation.
3. Use open project architecture.
4. End user should be core partners.
5. Comprehensive assessment.
6. Build sustainability inside the project.
7. Methods and tools are outcomes.

In sum, we suggest that more coordination and improved routines for project internal information sharing is applied to the design and implementation of methods in future projects, and that these projects replicate the documentation efforts demonstrated in relation to many of the SECUR-ED methods.

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