

D54.1 Method for Assessing Capacities

PUBLIC SUMMARY ONLY (PS)

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1 Public Summary

The objective of WP54 is to provide a comprehensive assessment of all capacities considered in SECUR-ED. Specifically, WP54 will identify the most promising capacities and methods based on their performance in the demos, using a cost-effectiveness perspective. WP54 will also evaluate those capacities that have not been included in any demo, although in less detail. An important part in the final analysis is to generalise the findings from the individual demos, to judge how the demonstrated capabilities might work in other settings, in other cities.

The work in WP54 will be performed in four stages:

1. Preliminary evaluation of individual capacities, based on SP3 descriptions;
2. Assessment of satellite demo results;
3. Assessment of main demo results;
4. Final assessment and generalisation.

In order to obtain consistent results that can be combined in the final assessment, a common framework is required to align all parts of the work. This framework specifies how to evaluate individual capacities, how to combine results from separate assessments and how to generalise the conclusions, using all available data and expertise. At the core of this framework is a cost-effectiveness model, which defines the measures we will use to estimate the effectiveness and costs of capacities. In addition, the model specifies multiple criteria to define what can be considered promising.

The first stage is a preliminary look at the SECUR-ED capacities, prior to the demos, based on estimates provided by SP3 experts themselves. The ensuing demo assessments will use a multi-step procedure to identify promising capacities:

- 1) Screening of acceptability (operational, legal, societal, ethical);
- 2) Estimation of security improvement;
- 3) Estimation of costs;
- 4) Selection of “most promising” capacities based on values from step 2) and 3).

The capacities that pass the screening are retained on a list of candidates, and carried over into the next step. In a final step, capacities that did pass the initial screening will be revisited, to identify capacities that show potential, given further adaptation or development. The resulting set of capacities will also be checked against a broad set of scenarios, based on the given demo scenarios and risk analyses, to identify any remaining security gaps.

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